

Project Number



HUBBELL
Lighting

Date
01/30/2020

Photometric Test Report

Lab 4
Sphere

Test Sample Description

Catalog Number: P400260-031-30
Description: 28" Diameter, Radial Movable 3- Arm Internally Lit Fixture w/ Down Spot

Photometry

Test Method: IES LM-41-14
IES LM-79-08 §10

Preburn Time: 15:10
Time To Stabilize: 0:30
Total Operating Time: 16:20

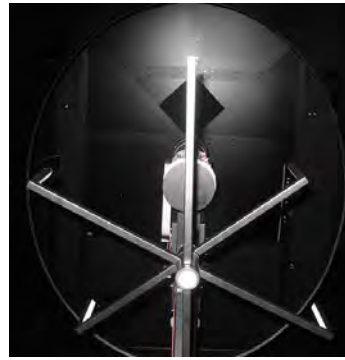
Input Voltage (Volts): 120.0
Input Current (Amps): 0.200
Input Wattage (Watts): 23.1
Ambient Temp (°C): 24.8

Sphere

Test Method: IES LM-16-93
IES LM-79-08 § 12.1

Preburn Time: 1:00
Time To Stabilize: 1:06
Total Operating Time: 2:38

Input Voltage (Volts): 120.0
Input Current (Amps): 0.202
Input Wattage (Watts): 23.4
Ambient Temp (°C): 24
PF @ 120V: 0.963
THD @ 120V (%): 17.8



Hubbell Lighting, Inc.

701 Millennium Boulevard
Greenville, SC 29607
www.hubbellighting.com

Checked (sphere): M. ELLMANN
Checked (photometry): R. HALL
Approved: L. GENNETTEN



* This customer-provided information was not verified by the laboratory and could affect the validity of the test results.

Note that the LED manufacturer and part number are unverifiable by the lab.

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Lamp Cat#: BXEN-30G-13H-9B AND BXEN-30G-11M-39

Lamp Desc: 84 - BRIDGELUX 3000K LEDs

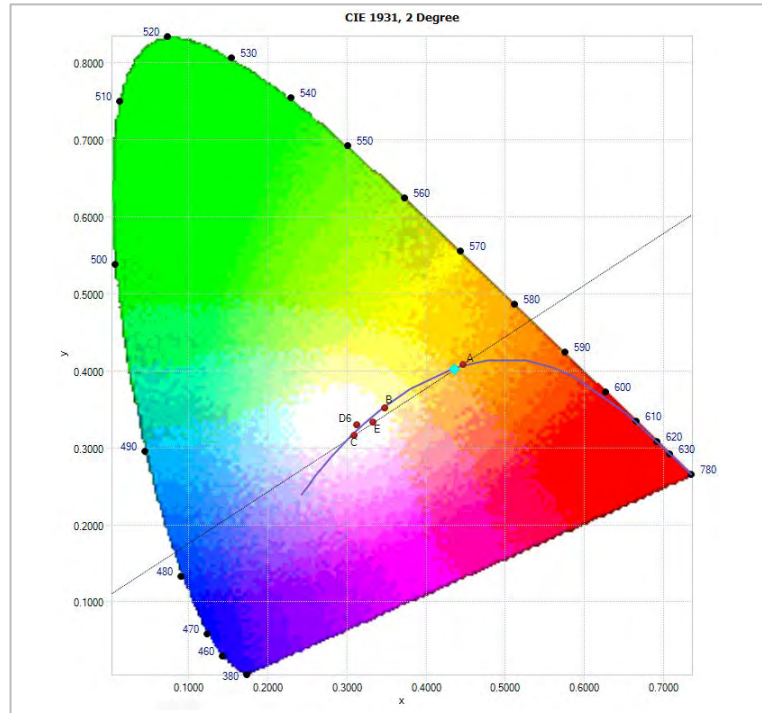
Driver Desc: 1 - JINTOP JT-03-600-24-40

Programmed to 600mA

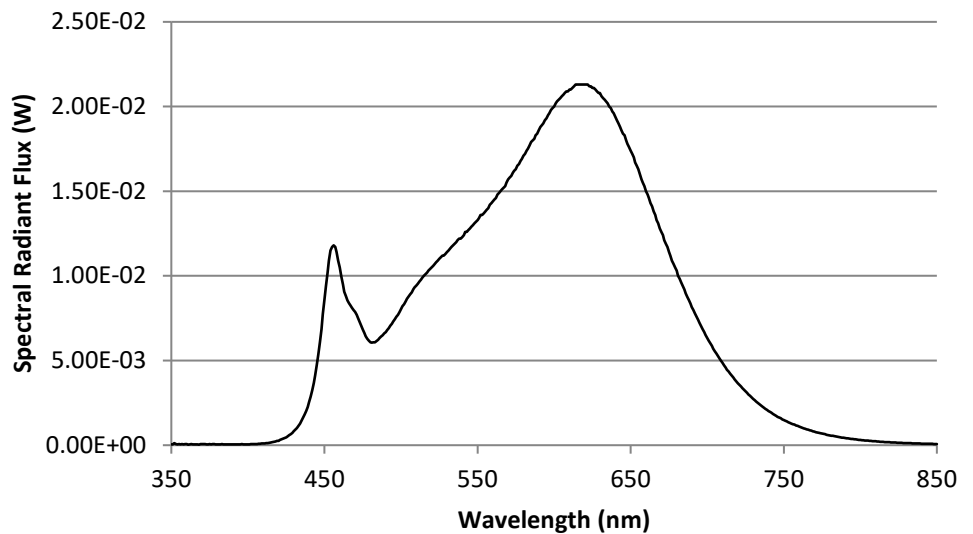
Efficacy: 45.4 LPW S/P Ratio: 1.4 LM/LM

Spectral Results

Name	Value	Unit
Φ	3.66	watts
$\Phi(v)$	1062	lumens
$\Phi(v')$	1538	lm'
Chrom x	0.4362	
Chrom y	0.4023	
Chrom u	0.2509	
Chrom v	0.347	
Duv	0.0007	
Chrom u'	0.2509	
Chrom v'	0.5206	
CCT	2995	K
Purity	51.7	%
λ (dom)	583.1	nm
FWHM	156.4	nm
λ (peak)	615.2	nm
λ (center)	600.1	nm
λ (centroid)	592.4	nm
SDCM	Cool White	
RA	92	
Corr. Coef.	0.000634489	
Correlation	0.0054	
R1	93.3	
R2	98.5	
R3	97.1	
R4	91.1	
R5	93.0	
R6	96.6	
R7	89.6	
R8	79.7	
R9	57.1	
R10	95.3	
R11	92.3	
R12	80.4	
R13	95.0	
R14	99.4	



Spectral Distribution of Radiant Flux



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PREPARED FOR: PROGRESS

CATALOG NUMBER: P400260-031-30

LUMINAIRE: 28" Diameter, Radial Movable 3- Arm Internally Lit Fixture w/
Down Spot

LAMP CAT. NO.: BXEN-30G-13H-9B AND BXEN-30G-11M-39

LAMP: 84- Bridgelux 3000K LEDs

BALLAST: 1- JINTOP Programmed to 600mA

BALLAST CATALOG NUMBER: JT-03-600-24-40

REFRACTOR: Frosted Acrylic



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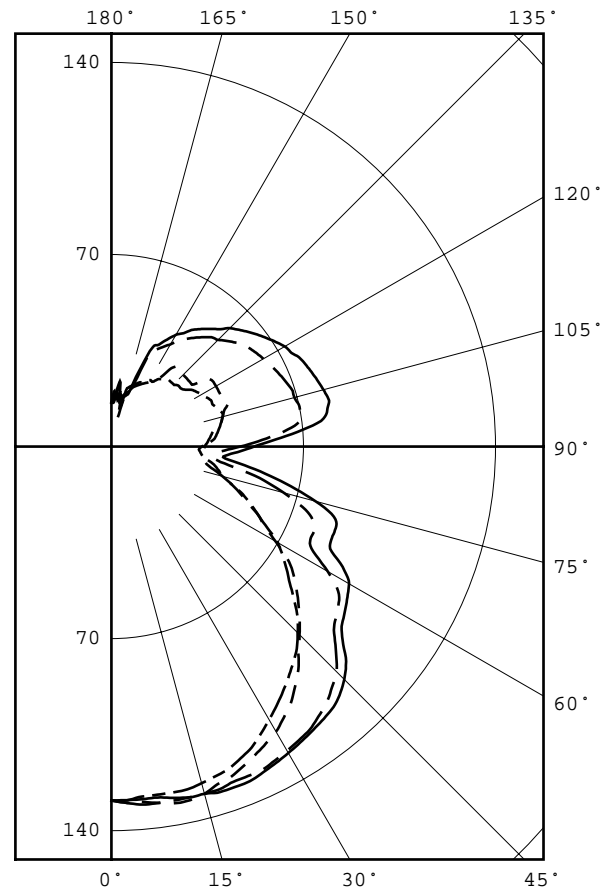
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CANDELA	DISTRIBUTION				FLUX
	0.0	90.0	180.0	270.0	
0	129	129	129	129	
5	130	129	128	131	12
15	131	131	127	131	37
25	124	131	121	130	59
35	114	127	109	126	77
45	97	120	96	116	89
55	81	104	78	101	93
65	59	88	59	80	89
75	42	77	42	65	82
85	34	41	33	38	78
90	34	52	33	47	
95	36	70	38	63	84
105	42	80	42	69	88
115	44	76	40	66	79
125	43	69	36	62	64
135	37	61	32	55	49
145	30	52	30	48	31
155	25	41	26	39	15
165	19	19	22	20	6
175	19	20	18	18	2
180	16	16	16	16	

ZONAL ZONE	LUMEN LUMENS	SUMMARY LUMENS	%FIXT
0- 30		108	10.5
0- 40		185	17.9
0- 60		367	35.5
0- 90		616	59.6
90-120		251	24.3
90-130		315	30.5
90-150		395	38.2
90-180		417	40.4
0-180		1034	100.0

EFFICACY = 44.7 lm/W
CIE TYPE - GENERAL DIFFUSE
PLANE : 0-DEG 90-DEG 180-DEG
SPACING CRITERIA : 1.37 1.50 1.32
SHIELDING ANGLES : 90 90





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LUMINOUS DIAMETER: 27.500
HEIGHT OF SIDE : 8.250

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	259.	320.	256.
55	238.	306.	230.
65	200.	299.	200.
75	175.	320.	175.
85	190.	229.	184.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	130	130	130	130	130	130	130	130	130	129	130	130	130	129
5.0	130	130	130	130	130	130	130	130	130	130	130	130	130	129
7.5	131	131	131	131	131	130	130	130	130	130	130	129	129	129
10.0	132	132	131	131	131	131	131	130	130	130	130	129	129	129
12.5	132	132	131	131	131	131	131	130	130	130	130	130	130	130
15.0	131	131	131	130	130	130	130	130	130	130	130	130	130	130
17.5	129	129	129	129	129	129	129	129	130	130	130	131	131	130
20.0	128	128	128	128	128	128	128	129	130	130	131	131	131	131
22.5	126	126	126	126	126	127	128	129	130	130	131	131	131	131
25.0	124	124	124	124	125	126	128	129	130	131	131	131	131	131
27.5	122	122	122	123	124	126	128	130	131	131	131	131	131	131
30.0	120	120	120	121	123	126	129	130	131	131	131	131	131	130
32.5	117	117	117	119	123	126	129	131	131	131	131	131	130	130
35.0	114	114	114	117	122	126	129	130	131	130	130	130	130	129
37.5	110	110	111	115	121	126	128	129	130	129	129	128	128	128
40.0	106	106	107	114	120	125	127	128	128	128	127	127	126	126
42.5	101	101	104	112	119	123	125	126	126	126	125	125	124	124
45.0	97	97	101	111	119	122	124	125	124	124	123	122	122	122
47.5	93	93	100	111	118	121	122	123	123	122	121	121	121	120
50.0	89	90	99	111	118	120	121	122	121	121	120	119	119	118
52.5	85	86	99	112	117	119	120	121	120	119	118	117	117	117
55.0	81	83	100	112	116	118	118	118	117	117	115	115	115	115
57.5	76	79	99	109	112	113	113	113	111	110	108	107	107	107
60.0	69	74	97	105	109	109	109	109	107	105	104	103	102	102
62.5	63	73	97	105	107	108	108	107	105	103	101	100	100	97
65.0	59	74	97	104	106	106	106	105	103	101	99	97	92	86
67.5	54	75	96	102	104	104	103	102	100	98	93	86	83	83
70.0	50	69	96	101	103	102	102	100	98	91	84	83	82	83
72.5	46	63	96	101	102	101	100	99	89	85	83	81	81	85
75.0	42	55	96	99	100	99	98	97	77	83	81	80	83	86
77.5	40	48	90	92	92	92	91	90	61	78	78	80	83	84
80.0	38	44	89	90	91	91	90	88	51	81	82	83	84	84
82.5	35	42	88	90	90	90	88	87	49	84	83	82	83	83
85.0	34	41	80	80	81	81	81	81	47	81	81	81	82	82
87.5	34	45	83	83	82	81	80	79	54	69	81	81	82	82
90.0	34	54	83	82	82	81	80	78	63	59	81	81	82	83
92.5	35	62	82	81	81	81	80	78	72	48	82	82	82	83
95.0	36	74	91	90	90	88	86	83	82	43	84	84	84	84
97.5	37	84	93	93	94	94	93	93	91	43	87	86	86	86
100.0	38	94	101	101	100	98	96	94	91	51	86	86	86	86
102.5	41	100	102	100	99	97	95	93	90	63	86	85	85	86
105.0	42	100	100	99	97	96	94	92	89	73	85	84	84	85
107.5	43	99	99	97	96	94	93	91	88	82	84	83	83	84
110.0	45	98	97	95	94	93	91	89	87	84	82	82	82	83
112.5	44	96	94	93	92	91	89	87	85	83	81	81	81	81
115.0	44	93	92	91	90	89	88	85	83	81	80	79	79	80
117.5	44	90	89	89	87	87	85	83	81	79	78	78	78	79
120.0	44	88	87	86	85	84	83	81	79	77	76	76	76	77
122.5	44	85	84	84	83	82	80	79	77	75	74	74	74	75
125.0	43	82	82	81	80	79	78	76	75	73	72	72	73	73
127.5	37	79	79	78	77	76	75	74	72	71	70	70	70	71
130.0	37	76	76	76	75	74	73	71	70	69	68	68	68	69
132.5	37	73	73	73	72	71	70	69	67	66	65	66	66	66
135.0	37	70	70	70	69	68	67	66	65	64	63	63	64	64
137.5	38	67	67	67	66	65	64	63	62	61	61	61	61	62
140.0	38	64	64	63	63	62	61	60	60	59	58	59	59	59
142.5	36	51	53	57	60	59	58	58	57	56	56	56	57	57
145.0	30	34	36	41	47	55	55	55	54	54	54	54	54	54
147.5	28	28	28	28	33	48	52	52	51	51	51	51	51	52

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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5
150.0	27	27	27	27	27	37	49	49	48	48	48	49	49	49
152.5	26	26	26	26	26	32	46	46	45	45	45	46	46	43
155.0	25	25	25	26	30	40	43	43	43	43	43	43	43	32
157.5	24	24	24	24	30	37	40	40	40	40	40	40	40	27
160.0	23	23	22	23	23	35	37	37	37	37	37	37	36	30
162.5	21	21	21	21	25	35	32	27	24	23	22	21	21	21
165.0	19	17	14	13	11	21	21	20	20	20	20	20	20	20
167.5	11	11	11	13	18	19	19	19	19	19	19	19	19	19
170.0	19	19	19	18	18	18	18	18	18	18	18	18	18	18
172.5	17	17	17	17	17	17	17	17	17	18	19	20	22	19
175.0	19	21	21	21	21	21	21	21	21	20	18	18	18	18
177.5	19	19	19	19	19	19	16	15	15	16	15	15	15	15
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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LATERAL ANGLE

	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	129	129	129	129	129	129	129	129	129	129	129	129	129	129
5.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
7.5	129	129	129	129	129	129	129	129	129	129	129	129	129	129
10.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
12.5	130	129	129	129	129	129	129	129	129	129	129	129	129	130
15.0	130	130	130	129	129	129	129	129	129	129	129	129	129	130
17.5	130	130	129	129	128	128	128	128	128	128	128	128	129	130
20.0	130	130	129	128	127	127	126	126	126	126	126	127	128	129
22.5	130	129	128	127	126	125	124	124	124	124	124	125	127	128
25.0	130	129	128	126	125	123	122	122	122	122	123	124	126	127
27.5	130	129	128	126	123	121	120	119	119	119	121	123	125	127
30.0	130	129	127	125	122	119	117	117	117	117	119	121	124	126
32.5	129	129	127	125	121	118	115	114	114	115	117	120	123	126
35.0	129	128	126	124	120	116	112	111	111	112	116	120	123	125
37.5	127	126	125	123	119	113	109	108	108	110	114	119	123	125
40.0	126	125	123	121	117	111	105	103	104	106	112	118	122	124
42.5	124	123	121	119	115	108	101	99	99	103	110	116	120	122
45.0	121	121	119	117	113	106	97	94	94	100	108	114	118	120
47.5	120	119	117	115	111	104	94	90	90	97	106	113	116	117
50.0	118	117	116	114	110	102	89	85	86	94	105	109	111	112
52.5	116	116	114	112	108	100	83	81	81	88	98	102	103	104
55.0	114	114	113	111	107	97	78	77	77	82	93	98	101	102
57.5	107	107	107	106	100	89	73	73	73	79	92	96	99	101
60.0	101	99	98	97	90	81	68	68	68	75	90	95	97	98
62.5	91	91	94	93	85	75	63	63	63	70	83	88	92	96
65.0	86	90	93	88	82	73	59	59	59	66	80	82	83	85
67.5	86	90	89	84	78	73	53	53	52	63	81	81	82	82
70.0	86	88	85	81	78	73	47	47	47	61	80	84	84	86
72.5	87	86	83	82	82	73	43	43	44	61	81	82	84	84
75.0	86	86	85	85	85	74	45	39	46	63	79	81	82	82
77.5	85	85	85	86	86	74	46	35	48	67	81	80	80	81
80.0	85	85	86	86	86	72	47	29	51	72	85	84	83	81
82.5	84	84	85	86	86	71	50	25	53	76	88	89	88	87
85.0	83	84	84	85	86	73	56	23	58	81	89	90	90	89
87.5	83	84	85	86	87	76	63	21	64	85	91	90	90	90
90.0	84	84	86	87	88	79	72	19	70	89	92	91	91	90
92.5	84	85	86	87	88	82	79	16	76	92	92	92	91	90
95.0	85	86	87	88	89	85	83	15	79	93	92	92	91	90
97.5	87	88	89	90	91	88	86	15	82	93	92	92	91	90
100.0	87	87	88	89	90	89	87	16	84	93	92	91	91	90
102.5	86	87	88	89	90	90	88	19	86	92	92	91	90	89
105.0	85	86	87	88	89	90	86	21	87	91	90	90	89	88
107.5	84	85	86	87	88	89	84	23	87	90	89	88	88	87
110.0	83	84	85	86	86	87	82	25	86	88	88	87	86	86
112.5	82	83	83	84	85	86	80	27	84	87	86	85	85	84
115.0	81	81	82	83	83	84	77	28	83	84	84	83	83	82
117.5	79	80	80	81	81	82	74	28	81	82	82	82	81	80
120.0	77	78	79	79	80	80	72	28	79	80	80	80	79	79
122.5	76	76	77	77	77	77	68	28	77	78	78	78	77	77
125.0	74	74	75	75	75	75	65	29	75	76	76	75	75	75
127.5	71	72	73	73	73	73	67	28	69	73	73	73	73	72
130.0	69	70	70	71	71	71	64	28	67	71	71	71	70	70
132.5	67	68	68	68	68	68	61	28	66	68	68	68	68	67
135.0	65	65	66	66	66	66	57	28	64	66	66	66	65	65
137.5	62	63	63	64	63	63	54	28	62	63	63	63	63	62
140.0	60	60	61	61	61	61	51	28	59	61	61	61	60	60
142.5	57	58	58	58	58	58	47	29	57	58	58	58	58	57
145.0	55	55	55	55	54	52	41	28	51	53	55	55	55	55
147.5	52	50	46	42	40	38	31	27	38	39	42	45	49	52



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CANDELA DISTRIBUTION
LATERAL ANGLE

	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5
150.0	43	36	32	29	27	26	25	25	25	27	29	32	36	43
152.5	30	25	24	24	24	24	24	24	24	24	24	24	25	31
155.0	24	24	23	23	23	23	23	23	23	23	23	23	23	24
157.5	23	23	23	23	23	23	23	22	22	22	22	22	23	23
160.0	23	22	22	22	22	22	22	22	22	22	22	22	22	24
162.5	21	21	21	21	21	21	21	21	21	21	21	21	21	31
165.0	20	20	20	20	20	20	20	20	20	20	19	16	14	16
167.5	19	19	19	19	19	19	17	15	13	12	11	11	11	16
170.0	18	18	17	14	13	12	12	12	12	11	11	11	11	13
172.5	19	20	20	20	19	18	17	17	17	18	19	18	18	18
175.0	18	18	18	18	18	17	17	17	17	17	17	22	22	22
177.5	15	15	15	15	15	15	16	20	20	20	20	20	20	20
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5	100.0	102.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	129	129	129	129	129	129	129	129	129	129	129	129	129	129
5.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
7.5	129	129	129	129	129	129	130	130	129	129	129	130	129	129
10.0	129	129	129	130	130	130	130	130	130	130	130	130	130	130
12.5	130	130	130	130	130	130	131	131	131	130	130	130	130	130
15.0	130	130	131	131	131	131	131	131	131	131	131	130	130	130
17.5	130	131	131	132	132	132	132	132	132	132	131	131	130	129
20.0	130	131	131	132	132	132	132	132	132	132	131	130	130	129
22.5	129	130	131	131	131	131	132	132	132	131	131	130	129	128
25.0	129	130	130	131	131	131	131	131	131	130	130	129	128	127
27.5	128	129	130	130	130	130	130	130	130	130	129	128	128	126
30.0	128	129	129	129	129	129	129	129	129	128	128	127	127	125
32.5	127	128	129	129	129	128	128	128	128	127	127	127	126	125
35.0	127	128	128	128	128	128	127	127	127	127	126	126	125	124
37.5	126	127	127	127	127	127	126	126	126	126	126	125	124	123
40.0	125	125	126	126	126	125	125	125	125	124	124	124	123	122
42.5	123	123	124	124	124	123	123	123	123	123	123	122	122	121
45.0	120	121	122	122	122	121	121	121	120	120	120	121	120	119
47.5	118	118	119	118	118	117	117	116	116	116	117	117	117	116
50.0	112	111	111	111	111	110	110	110	110	110	111	112	112	111
52.5	105	106	106	106	106	106	106	106	106	107	108	108	108	107
55.0	103	103	104	104	104	104	104	104	104	105	105	106	106	105
57.5	101	101	102	102	102	102	102	102	102	103	103	104	104	103
60.0	99	100	100	100	100	100	100	100	100	100	101	102	102	102
62.5	98	97	97	96	96	95	95	95	95	96	97	98	99	99
65.0	88	90	91	91	90	89	88	88	88	88	89	90	91	91
67.5	83	84	86	88	90	89	88	87	87	87	88	88	88	87
70.0	84	84	84	83	85	87	89	88	87	87	88	88	88	88
72.5	83	83	82	80	79	79	81	84	85	85	86	87	87	86
75.0	82	80	80	78	77	76	75	75	77	82	83	83	84	84
77.5	80	79	78	76	75	74	73	72	67	80	81	82	82	82
80.0	79	78	76	75	73	72	70	69	57	77	78	78	77	76
82.5	85	83	80	77	75	73	72	68	47	72	73	73	74	74
85.0	88	87	86	84	82	79	77	62	41	73	74	75	76	77
87.5	89	88	86	85	83	81	80	56	46	74	75	77	78	78
90.0	89	88	87	85	84	82	81	47	52	75	76	77	78	79
92.5	89	89	87	85	84	82	81	38	60	75	76	77	78	79
95.0	89	88	87	86	84	83	81	36	70	78	79	79	79	79
97.5	89	88	87	86	84	83	81	40	78	82	84	85	86	87
100.0	89	88	87	85	84	82	81	51	80	82	84	85	86	87
102.5	88	87	86	85	83	82	80	60	81	82	83	84	86	87
105.0	87	86	85	84	82	81	80	68	80	81	82	83	84	86
107.5	86	85	84	83	82	81	79	76	79	80	81	82	84	85
110.0	85	84	83	82	81	80	79	78	78	79	80	81	82	84
112.5	83	83	82	81	80	78	77	77	77	78	79	80	81	82
115.0	82	81	80	79	78	77	76	75	76	76	77	78	79	81
117.5	80	79	79	78	77	76	75	74	74	75	76	77	78	79
120.0	78	78	77	76	75	74	73	72	73	73	74	75	76	77
122.5	76	76	75	74	73	72	71	71	71	71	72	73	74	75
125.0	74	74	73	72	71	70	70	69	69	70	70	71	72	73
127.5	72	71	71	70	69	68	68	67	67	68	68	69	70	71
130.0	69	69	68	68	67	66	66	65	65	66	66	67	68	69
132.5	67	67	66	66	65	64	63	63	63	63	64	65	65	66
135.0	65	64	64	63	63	62	61	61	61	61	62	62	63	64
137.5	62	62	62	61	60	60	59	58	58	59	60	60	61	61
140.0	60	59	59	59	58	57	57	56	56	57	57	58	58	59
142.5	57	57	56	56	55	55	54	54	54	54	55	55	56	56
145.0	54	54	54	53	53	52	52	51	52	52	52	53	53	54
147.5	52	51	51	51	50	50	49	49	49	50	50	50	50	50



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	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5	100.0	102.5
150.0	49	49	48	48	48	47	47	46	47	47	47	48	48	38
152.5	42	46	46	45	45	44	44	44	44	44	45	45	44	25
155.0	30	42	43	43	42	42	42	41	41	42	42	42	39	23
157.5	25	37	40	40	40	39	39	39	39	39	40	40	39	28
160.0	30	36	38	37	37	37	36	32	29	28	28	26	25	22
162.5	35	35	33	31	29	26	22	20	20	20	20	20	20	20
165.0	23	22	22	21	21	20	20	19	19	19	19	19	19	19
167.5	21	21	20	20	19	19	19	18	18	18	18	18	18	18
170.0	19	19	19	19	18	18	18	17	17	18	18	18	19	18
172.5	18	21	23	24	24	24	24	24	24	24	23	22	22	22
175.0	22	22	22	22	22	22	22	20	20	20	20	20	19	19
177.5	20	19	19	19	17	17	18	17	17	17	17	17	17	17
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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CANDELA DISTRIBUTION
LATERAL ANGLE

	105.0	107.5	110.0	112.5	115.0	117.5	120.0	122.5	125.0	127.5	130.0	132.5	135.0	137.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	129	129	129	129	129	129	129	129	129	129	129	129	129	129
5.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
7.5	129	129	129	129	129	129	129	129	129	129	129	129	129	129
10.0	130	130	130	130	130	130	130	130	129	130	129	129	129	129
12.5	130	129	129	129	129	129	129	129	129	129	129	129	130	130
15.0	129	129	129	129	129	129	128	129	129	129	129	129	130	130
17.5	129	128	128	128	128	128	128	128	128	129	129	129	130	130
20.0	128	128	127	127	126	127	127	127	127	128	129	129	130	130
22.5	127	126	125	125	125	124	125	125	126	127	128	129	130	130
25.0	126	124	123	122	122	122	122	123	124	125	127	128	129	129
27.5	125	123	121	120	119	119	119	120	122	124	125	127	127	128
30.0	123	121	118	117	116	116	116	118	120	122	124	125	126	127
32.5	122	120	116	114	113	113	113	115	118	120	123	124	125	125
35.0	122	119	115	111	110	110	110	113	116	119	121	123	123	124
37.5	121	118	113	109	107	107	107	111	115	118	120	122	122	123
40.0	120	117	112	106	104	103	104	109	113	117	119	121	121	122
42.5	119	116	110	104	100	99	101	106	112	116	118	119	120	120
45.0	117	114	108	101	96	95	97	104	110	114	116	117	118	118
47.5	115	112	107	98	91	90	93	101	108	112	114	115	115	116
50.0	110	108	103	94	86	85	89	98	106	110	112	112	112	113
52.5	106	104	100	90	80	79	84	96	104	108	109	110	110	110
55.0	104	102	98	88	75	73	79	93	101	105	107	107	108	107
57.5	103	101	97	87	72	69	77	91	99	102	104	105	105	105
60.0	101	99	95	87	69	65	74	90	97	101	102	103	103	103
62.5	99	98	94	86	64	60	70	89	96	99	100	101	101	100
65.0	91	90	88	81	59	56	62	88	94	97	98	99	98	98
67.5	87	85	82	74	53	52	55	81	89	93	96	96	96	94
70.0	87	85	81	73	49	48	50	75	80	83	86	89	91	91
72.5	86	84	82	75	45	45	45	75	78	81	80	81	80	80
75.0	84	83	81	74	41	41	41	75	78	80	80	79	77	75
77.5	82	81	79	73	37	37	37	70	73	74	74	74	72	70
80.0	75	74	72	69	33	33	33	65	67	68	68	67	66	63
82.5	75	75	75	71	30	30	30	70	69	68	66	65	63	60
85.0	78	78	77	73	34	28	35	74	76	76	72	68	65	62
87.5	79	79	79	77	42	27	43	77	78	78	73	69	70	67
90.0	80	80	81	80	51	28	52	80	80	79	73	68	71	69
92.5	80	80	80	80	59	28	60	80	79	79	71	65	71	69
95.0	79	80	81	81	67	28	68	81	80	79	70	63	72	69
97.5	88	88	88	86	75	28	76	85	84	83	71	64	75	72
100.0	88	89	90	90	82	28	84	89	89	87	75	67	80	77
102.5	88	89	90	90	87	28	89	90	88	87	73	65	80	78
105.0	87	88	89	90	88	29	89	89	87	86	71	65	82	80
107.5	86	87	88	89	87	29	88	88	86	85	69	67	81	79
110.0	85	86	87	87	85	29	87	86	85	84	70	68	80	78
112.5	83	84	85	86	84	29	85	85	83	82	71	69	78	77
115.0	82	83	83	84	81	29	83	83	82	80	71	70	77	75
117.5	80	81	81	82	78	29	81	80	79	79	71	71	75	74
120.0	78	79	79	80	76	29	79	78	77	77	72	72	74	72
122.5	76	77	77	78	73	29	77	76	75	75	72	72	72	71
125.0	74	75	75	75	70	29	74	74	73	73	72	71	70	69
127.5	72	72	73	73	70	28	71	72	71	71	70	69	68	67
130.0	69	70	70	70	68	27	68	69	69	68	67	67	66	65
132.5	67	68	68	68	65	27	66	67	67	66	65	64	64	63
135.0	65	65	65	65	62	27	64	65	64	63	63	62	61	61
137.5	62	63	63	63	59	27	61	62	62	61	60	60	59	59
140.0	59	60	60	60	56	27	59	59	59	58	58	57	57	56
142.5	57	57	57	57	53	27	56	57	57	56	55	55	54	54
145.0	54	53	51	49	45	25	48	50	52	53	53	52	52	51
147.5	44	39	36	34	31	24	33	35	37	41	47	49	49	49

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	105.0	107.5	110.0	112.5	115.0	117.5	120.0	122.5	125.0	127.5	130.0	132.5	135.0	137.5
150.0	30	26	24	24	23	23	23	23	24	27	33	44	47	46
152.5	23	23	23	23	23	22	22	22	22	22	22	33	44	44
155.0	22	22	22	22	22	22	22	22	22	21	21	27	41	41
157.5	22	22	21	21	21	21	21	21	21	22	25	32	39	39
160.0	21	21	21	21	21	20	20	20	20	22	33	36	36	36
162.5	20	20	20	20	20	20	20	20	19	19	23	31	29	26
165.0	19	19	19	19	19	19	17	15	13	11	18	23	23	23
167.5	18	18	18	15	13	13	12	12	12	11	12	22	22	21
170.0	18	16	14	13	13	13	12	13	14	17	20	20	20	20
172.5	22	21	21	21	21	21	20	20	20	20	20	23	24	25
175.0	19	19	19	19	19	19	20	22	22	22	22	22	22	22
177.5	17	17	18	20	20	20	20	20	20	20	17	16	16	17
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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	140.0	142.5	145.0	147.5	150.0	152.5	155.0	157.5	160.0	162.5	165.0	167.5	170.0	172.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	129	129	129	129	129	129	129	129	129	129	129	129	129	129
5.0	128	129	129	128	128	128	128	128	128	128	128	128	128	128
7.5	129	129	129	129	129	128	128	128	128	128	128	128	128	128
10.0	129	129	129	129	129	129	129	129	129	129	129	128	128	128
12.5	130	130	130	129	129	129	129	129	129	129	128	128	128	128
15.0	130	130	130	130	130	130	129	129	129	128	128	128	127	127
17.5	130	131	131	131	131	131	130	130	129	129	128	127	127	127
20.0	131	131	131	131	131	131	131	130	129	129	128	127	126	126
22.5	130	130	131	131	131	131	131	130	130	128	127	126	125	124
25.0	129	130	130	130	130	130	130	130	129	128	126	125	123	122
27.5	128	128	129	129	129	129	129	129	128	127	125	124	121	120
30.0	127	127	127	128	128	128	128	128	128	126	125	122	120	117
32.5	126	126	126	127	127	127	127	127	127	126	124	121	118	115
35.0	124	125	125	125	126	126	126	126	126	125	124	121	118	113
37.5	123	123	124	124	125	125	125	125	125	124	123	121	117	112
40.0	122	122	123	123	124	124	124	124	125	124	122	120	116	111
42.5	120	120	121	122	122	123	123	124	124	123	122	120	116	110
45.0	118	118	119	120	120	121	121	122	122	121	120	118	115	108
47.5	116	116	116	117	118	118	119	119	120	119	119	117	113	106
50.0	113	112	113	114	115	116	116	117	117	117	116	115	111	105
52.5	110	110	110	111	112	113	113	114	115	115	115	113	109	103
55.0	107	107	108	108	109	110	111	112	113	113	113	111	108	102
57.5	105	104	105	106	107	108	109	110	111	112	111	110	107	102
60.0	103	102	103	104	105	106	108	108	110	110	110	109	107	101
62.5	100	100	100	102	103	104	106	107	108	109	109	108	106	100
65.0	98	97	98	99	100	102	103	105	106	107	107	106	103	98
67.5	95	94	95	96	97	99	101	102	103	104	103	102	101	96
70.0	92	91	92	93	95	96	98	99	101	100	100	100	99	96
72.5	85	87	89	90	92	93	95	96	98	96	96	99	98	95
75.0	77	76	80	85	88	90	92	94	95	92	92	97	97	95
77.5	71	71	71	73	78	84	87	89	91	88	88	95	95	94
80.0	65	65	67	68	70	73	82	84	86	82	81	87	86	87
82.5	62	61	62	64	66	60	76	76	76	69	68	76	77	83
85.0	61	59	58	59	59	41	65	65	66	61	61	68	69	78
87.5	67	66	66	67	57	36	64	66	68	62	61	66	67	77
90.0	68	66	67	68	50	39	66	67	69	64	64	66	66	80
92.5	67	66	66	67	41	47	66	67	69	65	65	64	64	79
95.0	68	66	66	67	40	61	72	74	76	72	72	67	67	84
97.5	70	69	69	69	47	69	74	76	78	76	77	70	69	88
100.0	74	73	72	72	58	75	76	78	80	79	80	70	69	88
102.5	76	74	73	74	67	77	79	81	83	83	85	77	76	95
105.0	78	76	77	77	75	80	83	85	87	88	90	83	81	97
107.5	77	76	76	77	78	80	82	84	86	88	90	84	82	95
110.0	76	75	75	76	78	79	81	83	85	87	89	85	83	94
112.5	75	74	74	75	77	78	80	82	84	85	87	86	84	92
115.0	74	73	74	74	76	77	79	81	82	84	85	86	85	90
117.5	73	72	72	73	75	76	77	79	80	82	83	85	85	88
120.0	71	70	71	72	73	74	76	77	79	80	81	83	84	85
122.5	69	69	69	70	72	73	74	75	77	78	79	81	82	83
125.0	68	67	68	69	70	71	72	73	75	76	77	79	80	81
127.5	66	66	66	67	68	69	70	71	72	73	75	76	77	78
130.0	64	64	64	65	66	67	68	69	70	71	72	73	74	75
132.5	62	62	62	63	64	65	66	67	68	69	70	71	72	72
135.0	60	60	60	61	62	63	63	64	66	67	67	68	69	70
137.5	58	58	58	59	59	60	61	62	63	64	65	65	66	67
140.0	56	55	56	57	57	58	59	60	61	61	62	63	63	64
142.5	53	53	54	54	55	56	57	57	58	59	59	60	60	60
145.0	51	51	51	52	53	53	54	55	55	56	57	57	53	48
147.5	49	48	49	50	50	51	51	52	53	53	54	47	38	33



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	140.0	142.5	145.0	147.5	150.0	152.5	155.0	157.5	160.0	162.5	165.0	167.5	170.0	172.5
150.0	46	46	47	47	48	48	49	50	50	50	50	33	28	28
152.5	44	44	44	45	45	46	46	47	47	48	46	28	27	27
155.0	41	41	42	42	43	43	44	44	45	45	44	32	27	26
157.5	39	39	39	40	40	40	39	37	36	36	34	32	27	25
160.0	36	36	36	35	32	28	24	24	24	24	24	24	24	24
162.5	24	24	23	23	23	23	23	23	23	23	23	23	23	23
165.0	22	22	22	22	22	22	22	22	22	22	22	22	22	22
167.5	21	21	21	21	21	21	21	21	21	21	21	21	20	17
170.0	20	22	24	26	27	28	28	28	25	24	23	23	22	22
172.5	25	25	25	24	22	21	21	21	21	21	21	20	20	20
175.0	19	19	19	19	19	19	18	18	18	18	18	18	18	18
177.5	17	17	16	16	16	16	16	16	16	16	16	18	20	20
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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CANDELA DISTRIBUTION
LATERAL ANGLE

	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5	200.0	202.5	205.0	207.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	129	129	129	129	129	129	129	129	129	129	129	129	129	129
5.0	128	128	128	128	128	128	128	128	128	128	128	129	129	129
7.5	128	128	128	128	128	128	128	128	129	129	129	129	129	129
10.0	128	128	128	128	128	128	128	128	129	129	129	129	129	129
12.5	128	128	128	128	128	128	128	128	128	128	129	129	129	129
15.0	127	127	127	127	127	127	128	128	128	129	129	129	129	130
17.5	126	126	126	126	127	127	128	128	129	129	130	130	130	130
20.0	125	125	125	125	126	126	127	128	129	130	130	131	130	130
22.5	124	123	123	123	124	125	126	128	129	130	130	130	130	130
25.0	121	121	121	121	122	124	125	127	128	129	130	130	130	130
27.5	118	118	118	118	120	122	124	126	128	128	129	129	129	129
30.0	116	115	115	116	118	121	124	126	127	128	128	128	128	128
32.5	113	112	112	113	116	119	123	125	126	127	128	128	128	128
35.0	110	109	109	111	114	118	122	125	126	127	127	127	127	127
37.5	108	107	106	108	113	118	122	124	126	127	127	127	127	127
40.0	105	103	103	106	111	117	122	124	125	126	126	126	126	126
42.5	102	100	100	103	110	117	121	123	124	125	125	125	125	125
45.0	99	96	96	100	108	115	119	122	123	124	123	123	123	123
47.5	96	91	92	96	107	114	118	120	121	122	122	121	121	121
50.0	93	87	87	93	105	112	116	118	119	120	119	119	119	119
52.5	91	82	82	91	104	111	114	116	117	118	118	117	117	117
55.0	90	78	78	89	103	110	113	115	116	116	116	115	115	115
57.5	89	75	74	88	103	109	112	114	114	114	113	112	112	111
60.0	89	71	70	87	101	107	109	110	110	109	108	106	105	105
62.5	88	66	64	84	98	103	106	106	106	106	104	103	102	101
65.0	86	61	59	83	97	102	104	105	105	104	103	102	100	100
67.5	86	59	55	84	96	101	103	103	103	102	101	99	97	90
70.0	86	54	51	82	95	99	101	101	101	100	99	94	86	84
72.5	85	49	46	77	94	98	99	99	99	98	91	85	84	83
75.0	85	44	42	74	93	97	98	97	96	95	79	83	81	82
77.5	85	39	38	69	89	89	90	90	89	87	61	76	76	79
80.0	77	35	35	62	82	84	85	85	85	85	51	79	82	84
82.5	78	34	34	61	85	87	88	88	88	88	50	86	86	86
85.0	75	32	33	58	80	82	84	86	87	86	50	85	84	85
87.5	74	32	32	57	77	78	78	78	78	78	51	76	85	85
90.0	78	39	33	62	81	81	82	81	81	80	62	65	85	86
92.5	79	49	36	66	81	81	81	82	82	81	72	55	86	86
95.0	84	58	38	72	85	85	85	85	84	84	83	47	90	90
97.5	88	67	39	79	89	89	90	89	90	91	91	45	92	91
100.0	88	75	40	86	95	96	98	98	97	96	94	47	92	91
102.5	96	85	41	94	100	99	99	98	97	96	94	61	91	91
105.0	97	94	42	98	99	98	98	97	96	95	94	71	90	90
107.5	96	94	42	97	98	97	96	95	95	94	92	82	89	88
110.0	94	93	41	96	96	95	94	94	93	92	91	89	88	87
112.5	93	91	40	94	94	93	93	92	91	91	89	88	86	86
115.0	91	89	40	92	92	91	91	90	90	89	88	86	85	84
117.5	88	87	39	89	89	89	88	88	87	87	85	84	83	82
120.0	86	85	38	87	87	86	86	86	85	84	83	82	81	80
122.5	83	82	37	84	84	84	84	83	83	82	81	80	79	78
125.0	81	80	36	81	82	81	81	81	80	80	79	77	76	76
127.5	78	78	34	78	79	79	78	78	78	77	76	75	74	73
130.0	75	75	33	75	76	76	76	75	75	74	73	72	72	71
132.5	73	72	33	72	73	73	73	73	72	72	71	70	69	68
135.0	70	69	32	69	70	70	70	69	69	69	68	67	66	65
137.5	67	66	32	66	67	68	67	66	66	66	65	64	63	63
140.0	64	64	32	63	64	64	64	63	63	63	62	61	61	60
142.5	60	59	31	58	60	61	61	61	60	60	59	59	58	58
145.0	45	43	30	42	45	48	53	57	57	57	57	56	55	55
147.5	29	29	28	29	30	32	37	45	54	54	53	53	53	52



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CANDELA DISTRIBUTION
LATERAL ANGLE

	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5	200.0	202.5	205.0	207.5
150.0	28	28	28	28	28	28	28	31	50	51	50	50	50	49
152.5	27	27	27	27	27	27	27	28	46	48	47	47	47	46
155.0	26	26	26	26	26	27	28	32	44	45	45	44	44	44
157.5	25	25	25	25	25	27	36	41	42	42	42	41	41	41
160.0	24	24	24	24	24	24	25	37	39	39	39	38	38	38
162.5	23	23	23	23	23	23	24	35	36	33	29	27	25	23
165.0	22	22	22	21	19	17	15	22	23	22	22	21	20	20
167.5	15	14	13	13	13	12	13	20	21	21	20	20	19	19
170.0	22	21	21	21	20	20	20	20	20	19	19	18	18	18
172.5	20	20	19	19	19	19	18	18	18	18	18	17	18	19
175.0	18	18	18	21	22	23	23	23	23	23	22	22	20	20
177.5	20	20	20	20	20	20	20	20	19	18	18	18	18	17
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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CANDELA DISTRIBUTION
LATERAL ANGLE

	210.0	212.5	215.0	217.5	220.0	222.5	225.0	227.5	230.0	232.5	235.0	237.5	240.0	242.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	129	129	129	129	129	129	129	129	129	129	129	129	129	129
5.0	129	129	129	129	129	129	129	129	129	130	130	130	130	130
7.5	129	129	129	130	130	130	130	130	130	130	130	130	130	130
10.0	129	129	130	130	130	130	130	130	130	131	131	131	131	131
12.5	129	129	130	130	130	130	131	131	131	131	131	131	132	132
15.0	130	130	130	130	130	130	131	131	131	131	131	132	132	132
17.5	130	130	130	130	130	129	130	130	130	130	131	131	132	132
20.0	130	130	129	129	129	128	128	128	128	128	129	130	131	131
22.5	130	129	129	128	127	126	126	126	126	126	127	128	129	130
25.0	130	129	128	127	125	124	124	123	123	124	125	126	128	129
27.5	129	128	127	126	124	122	121	121	121	121	122	124	126	128
30.0	129	128	127	125	123	120	119	118	118	118	120	123	125	127
32.5	128	128	127	125	122	119	117	116	115	116	118	121	124	126
35.0	127	127	126	124	122	118	115	113	112	113	115	119	122	125
37.5	127	127	125	124	121	117	113	110	109	109	112	117	121	124
40.0	126	126	125	123	120	116	111	107	105	105	109	114	119	122
42.5	125	124	123	121	119	115	108	103	100	100	105	112	116	119
45.0	123	122	121	119	117	113	106	99	96	96	101	109	114	116
47.5	121	120	119	117	115	111	104	95	91	91	97	106	111	114
50.0	118	118	117	116	113	110	103	92	86	86	92	104	109	110
52.5	117	116	115	114	112	109	102	88	82	81	85	97	101	102
55.0	115	115	114	113	111	108	102	84	77	77	79	90	95	98
57.5	111	111	111	110	108	104	96	80	73	73	73	88	94	97
60.0	104	104	103	102	101	95	87	74	69	68	68	86	92	95
62.5	100	99	94	94	95	89	81	69	64	64	63	78	83	86
65.0	95	89	90	93	93	87	79	65	59	58	57	73	76	77
67.5	85	86	90	93	89	83	77	63	52	52	51	74	79	78
70.0	84	87	91	90	85	80	78	60	48	47	47	73	80	81
72.5	85	88	89	85	82	81	82	61	44	43	44	73	80	81
75.0	85	87	85	84	84	85	84	63	46	39	47	72	78	79
77.5	82	83	84	84	84	84	84	65	47	33	49	74	79	78
80.0	85	86	86	87	87	88	87	68	50	27	53	78	84	83
82.5	86	87	87	88	88	88	87	70	54	23	57	80	87	87
85.0	85	86	86	87	87	87	87	73	59	19	61	82	87	86
87.5	86	87	87	88	88	89	89	79	67	17	66	85	89	87
90.0	86	87	88	89	90	90	91	83	75	16	71	88	90	88
92.5	87	88	88	89	90	91	91	87	83	15	76	91	91	89
95.0	90	91	92	92	93	94	94	91	89	16	76	92	91	89
97.5	92	92	92	93	93	94	94	93	91	17	76	93	91	89
100.0	91	92	92	92	93	93	94	94	92	20	77	93	91	89
102.5	91	91	91	92	92	93	93	94	93	22	77	92	90	88
105.0	90	90	91	91	91	92	93	93	92	25	78	91	89	87
107.5	89	89	89	90	90	91	91	91	91	27	78	90	88	86
110.0	87	88	88	89	89	90	90	90	89	29	78	88	87	85
112.5	86	86	87	87	88	88	88	88	88	30	77	87	85	83
115.0	84	85	85	86	86	87	87	87	86	30	75	85	83	82
117.5	82	83	83	84	84	85	85	85	84	30	71	82	82	80
120.0	80	81	82	82	83	83	83	83	82	30	69	80	80	78
122.5	78	79	79	80	81	81	81	80	80	30	65	78	78	76
125.0	76	76	77	78	78	78	78	78	77	30	62	76	75	74
127.5	73	74	75	75	76	76	76	75	75	38	48	73	73	72
130.0	71	71	72	73	73	73	73	73	73	38	45	71	71	70
132.5	68	69	69	70	70	71	71	70	70	39	42	68	68	68
135.0	66	66	67	67	68	68	68	68	67	39	40	65	66	65
137.5	63	63	64	64	65	65	65	65	64	39	37	63	63	63
140.0	60	61	61	61	62	62	62	62	62	39	35	60	60	60
142.5	58	58	58	58	59	59	59	59	59	39	33	57	57	57
145.0	55	55	55	55	56	56	56	55	52	37	29	50	52	54
147.5	52	52	52	52	51	47	43	40	38	31	25	36	38	40



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CANDELA DISTRIBUTION
LATERAL ANGLE

	210.0	212.5	215.0	217.5	220.0	222.5	225.0	227.5	230.0	232.5	235.0	237.5	240.0	242.5
150.0	49	49	49	45	38	33	30	27	25	24	23	24	25	26
152.5	46	46	44	33	26	23	23	23	23	23	22	22	22	22
155.0	43	43	33	24	22	22	22	22	22	22	22	22	21	21
157.5	39	38	26	22	21	21	21	21	21	21	21	21	21	21
160.0	36	33	27	23	20	20	20	20	20	20	20	20	20	20
162.5	21	20	20	19	19	20	19	19	20	19	19	19	19	19
165.0	19	19	19	19	18	18	18	18	19	18	18	18	16	14
167.5	19	18	18	18	18	18	17	17	15	14	13	12	12	12
170.0	18	17	17	17	15	14	13	13	13	12	12	12	12	11
172.5	20	19	18	19	21	21	20	18	18	17	17	17	17	18
175.0	20	20	19	19	19	19	19	19	19	18	18	18	18	20
177.5	17	17	17	17	17	17	17	17	18	19	19	19	19	19
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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CANDELA DISTRIBUTION
LATERAL ANGLE

	245.0	247.5	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5	275.0	277.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	129	130	130	130	130	130	130	130	130	130	130	130	130	130
5.0	130	130	130	130	130	130	130	131	131	131	131	131	131	131
7.5	130	131	131	131	131	131	131	131	131	131	131	131	131	131
10.0	131	131	131	131	131	131	131	131	131	131	131	131	131	131
12.5	132	132	132	132	132	132	132	132	132	132	131	131	131	130
15.0	132	133	133	133	133	133	133	133	132	132	131	131	130	130
17.5	133	133	133	133	133	133	133	133	132	132	131	130	129	128
20.0	132	132	133	133	133	133	133	132	132	131	130	130	129	128
22.5	131	132	132	132	132	132	132	132	131	131	130	129	128	127
25.0	130	131	131	132	132	132	131	131	131	130	130	129	128	127
27.5	129	130	131	131	131	131	131	130	130	129	129	128	128	127
30.0	128	129	130	130	130	130	130	129	129	129	128	128	128	126
32.5	128	129	129	129	129	129	129	129	128	128	127	127	127	126
35.0	127	127	128	128	128	128	128	127	127	126	126	126	125	125
37.5	125	126	126	126	126	126	126	125	125	124	124	124	124	123
40.0	123	124	124	124	124	124	124	123	123	122	122	121	121	121
42.5	120	121	121	121	121	120	120	120	119	119	119	119	119	119
45.0	118	118	118	118	118	117	117	117	116	116	116	116	116	116
47.5	115	116	115	115	114	113	112	112	111	111	111	112	112	113
50.0	110	109	108	107	106	106	105	105	105	105	106	107	108	108
52.5	102	102	102	102	102	102	102	102	102	103	103	104	105	106
55.0	100	100	100	100	100	100	100	100	100	100	101	102	103	104
57.5	98	98	98	98	97	97	97	97	97	97	98	99	101	102
60.0	95	95	95	95	93	92	91	90	90	90	91	92	93	95
62.5	88	90	89	88	87	85	84	83	83	83	83	84	85	86
65.0	77	78	80	82	83	83	82	81	80	80	80	82	83	84
67.5	79	77	77	76	76	78	79	80	80	79	80	81	82	83
70.0	81	80	80	77	76	74	72	73	76	77	78	79	80	81
72.5	80	79	78	76	75	73	71	70	68	68	73	76	77	79
75.0	79	78	76	74	73	71	69	68	67	65	65	73	75	76
77.5	77	76	74	73	71	69	67	66	65	63	57	71	72	71
80.0	80	78	76	73	71	69	68	66	65	61	47	66	67	70
82.5	85	83	81	78	76	73	70	68	63	55	39	64	67	69
85.0	85	83	81	78	76	74	71	69	64	53	38	64	66	69
87.5	85	83	81	79	76	74	72	70	64	48	40	65	66	68
90.0	86	84	82	79	77	75	72	70	64	42	47	66	67	69
92.5	87	85	82	80	77	75	73	71	65	39	55	69	71	73
95.0	87	84	82	80	77	75	73	71	66	39	63	72	75	77
97.5	87	84	82	80	77	75	73	71	68	45	69	72	74	77
100.0	86	84	82	79	77	75	73	71	69	51	70	72	74	77
102.5	86	84	81	79	77	75	73	71	69	58	70	71	73	76
105.0	85	83	81	78	76	74	72	70	69	64	69	71	73	75
107.5	84	82	80	78	76	74	72	70	68	68	69	70	72	74
110.0	83	81	79	77	75	73	71	69	68	67	68	69	71	73
112.5	81	80	78	76	74	72	70	69	67	67	67	68	70	72
115.0	80	78	76	75	73	71	69	68	66	66	66	67	69	70
117.5	78	77	75	73	72	70	68	67	66	65	65	66	67	69
120.0	77	75	74	72	71	69	67	66	65	64	64	65	66	67
122.5	75	73	72	70	69	68	66	65	63	63	63	64	65	66
125.0	73	71	70	69	68	66	65	63	62	62	62	62	63	64
127.5	71	70	68	67	66	65	63	62	61	60	60	61	62	62
130.0	69	68	66	65	64	63	62	61	59	59	59	59	60	61
132.5	67	66	64	63	62	61	60	59	58	57	57	57	58	59
135.0	64	63	62	61	60	59	58	57	56	55	55	56	57	57
137.5	62	61	60	59	58	57	56	55	54	54	54	54	55	55
140.0	59	58	57	57	56	55	54	53	52	52	52	52	53	53
142.5	57	56	55	54	54	53	52	51	51	50	50	50	51	51
145.0	54	53	53	52	51	51	50	49	49	48	48	48	49	49
147.5	43	47	50	49	49	48	48	47	46	46	46	46	46	47

THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.



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	245.0	247.5	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5	275.0	277.5
150.0	29	33	39	46	46	46	45	45	44	44	43	44	44	44
152.5	22	23	26	38	44	43	43	42	42	41	41	42	42	42
155.0	21	22	22	26	41	41	40	40	39	39	39	39	40	40
157.5	21	21	21	26	38	38	38	38	37	37	37	37	37	37
160.0	20	23	26	31	36	36	35	35	34	30	25	23	22	21
162.5	19	20	30	31	29	27	25	23	22	21	21	20	20	20
165.0	12	11	13	23	23	22	22	21	20	20	20	20	19	19
167.5	11	11	15	21	21	21	20	20	19	19	19	19	19	19
170.0	11	11	13	19	20	19	19	19	19	19	19	20	21	21
172.5	19	19	20	22	23	23	23	23	23	23	23	23	20	20
175.0	21	21	21	21	21	21	21	21	21	18	18	18	18	18
177.5	19	19	19	19	19	18	16	16	16	16	16	16	16	16
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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CATALOG NUMBER: P400260-031-30

CANDELA DISTRIBUTION
LATERAL ANGLE

	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5	300.0	302.5	305.0	307.5	310.0	312.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	130	130	130	130	130	130	130	130	130	130	130	130	130	130
5.0	131	131	131	131	131	131	131	131	131	131	131	131	131	131
7.5	131	131	131	131	131	131	131	131	132	132	132	132	132	132
10.0	131	131	131	131	131	131	131	132	132	132	132	132	133	133
12.5	130	130	130	131	130	130	131	131	131	132	132	132	133	133
15.0	129	129	129	129	129	129	129	130	130	131	131	132	132	133
17.5	128	128	127	127	127	127	128	128	128	129	130	131	132	133
20.0	127	126	125	125	125	125	125	126	127	128	129	130	131	132
22.5	126	125	124	123	123	123	123	124	125	126	128	129	131	132
25.0	125	124	122	121	120	121	121	121	123	125	127	129	130	131
27.5	125	123	121	119	118	118	118	119	121	123	126	128	130	131
30.0	125	122	120	117	116	115	115	117	119	122	125	127	129	130
32.5	124	122	119	115	113	112	112	114	116	120	124	126	128	130
35.0	124	121	117	113	110	108	108	110	113	118	122	125	127	128
37.5	122	120	116	111	106	104	104	105	110	115	120	123	125	126
40.0	120	118	114	109	103	100	99	101	106	113	118	121	123	124
42.5	118	116	113	107	100	95	94	96	102	110	115	119	120	122
45.0	116	114	111	106	98	91	90	92	99	108	113	117	119	120
47.5	113	112	110	105	97	87	85	87	97	106	112	115	117	118
50.0	109	108	106	103	94	83	81	83	94	105	111	114	116	117
52.5	106	106	104	101	93	80	75	78	92	103	109	113	115	116
55.0	105	104	103	100	93	78	70	73	89	101	106	110	112	113
57.5	102	102	101	98	92	77	65	68	87	99	104	108	110	110
60.0	96	97	97	96	91	74	61	62	80	97	102	106	107	108
62.5	87	88	88	87	83	67	56	57	71	94	100	103	105	105
65.0	86	86	86	84	79	63	51	51	62	84	92	96	100	102
67.5	85	85	85	83	80	62	46	47	54	80	85	88	89	92
70.0	82	83	84	83	80	61	43	43	49	80	84	86	87	87
72.5	80	81	81	81	79	59	40	40	45	77	81	82	82	82
75.0	77	78	78	77	75	59	35	35	40	69	72	72	73	74
77.5	72	72	72	72	73	60	31	31	36	69	69	69	71	71
80.0	72	74	75	76	76	64	29	28	36	76	75	74	73	71
82.5	72	73	75	76	76	67	31	28	40	77	79	79	79	76
85.0	71	73	74	76	77	70	37	28	47	77	78	78	76	71
87.5	70	72	74	75	77	74	44	30	55	79	79	80	77	70
90.0	71	73	74	76	77	75	51	32	63	79	79	79	75	66
92.5	75	77	79	80	82	81	60	32	72	82	82	81	77	66
95.0	80	82	84	85	87	87	68	33	80	89	89	88	83	70
97.5	79	82	84	86	88	88	76	33	88	90	90	89	83	68
100.0	79	81	83	85	87	88	78	33	89	90	89	89	82	65
102.5	78	80	83	84	86	87	79	33	89	89	88	88	81	64
105.0	77	79	81	84	85	86	78	33	88	88	87	87	80	64
107.5	76	78	80	82	84	85	77	32	87	86	86	85	80	66
110.0	75	77	79	81	82	84	76	32	85	85	84	83	79	68
112.5	73	75	77	79	81	82	75	31	83	83	82	82	79	69
115.0	72	74	76	78	79	80	73	30	81	81	80	80	77	71
117.5	71	72	74	76	77	78	71	29	78	79	78	78	76	72
120.0	69	71	73	74	75	76	70	29	76	76	76	76	75	73
122.5	67	69	70	72	73	73	68	28	74	74	74	74	73	73
125.0	66	67	68	70	71	71	66	28	71	72	72	72	71	71
127.5	64	65	66	67	68	69	67	26	68	70	70	70	69	69
130.0	62	63	64	65	66	66	65	26	66	67	67	67	67	67
132.5	60	61	62	63	63	64	63	26	63	65	65	65	64	64
135.0	58	59	59	60	61	61	60	26	61	62	62	62	62	62
137.5	56	56	57	58	58	59	58	26	58	60	60	60	59	59
140.0	54	54	55	55	56	56	56	26	56	57	57	57	57	56
142.5	51	52	52	53	53	51	50	25	50	52	54	54	54	54
145.0	49	50	48	44	40	38	36	24	36	38	40	44	50	51
147.5	47	45	36	31	27	25	24	23	24	24	26	30	36	47

THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5	300.0	302.5	305.0	307.5	310.0	312.5
150.0	45	36	25	23	23	23	23	23	23	23	23	23	24	36
152.5	42	28	23	23	23	23	23	23	23	23	23	23	23	25
155.0	40	27	22	22	22	22	22	22	22	22	22	22	23	27
157.5	36	33	25	22	22	22	21	22	21	21	22	23	30	35
160.0	21	21	21	21	21	21	21	21	21	21	21	21	28	35
162.5	20	20	20	20	20	20	20	20	20	20	20	19	17	25
165.0	19	19	19	19	19	19	19	18	15	13	12	12	13	22
167.5	19	19	19	19	16	14	13	13	13	12	12	12	12	19
170.0	22	19	20	21	18	16	15	15	15	15	17	18	19	19
172.5	20	20	19	19	19	19	19	19	18	18	18	18	21	22
175.0	18	18	18	17	17	17	17	17	20	20	20	20	20	20
177.5	16	16	15	16	18	18	18	18	18	18	18	15	15	15
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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CANDELA DISTRIBUTION
LATERAL ANGLE

	315.0	317.5	320.0	322.5	325.0	327.5	330.0	332.5	335.0	337.5	340.0	342.5	345.0	347.5
0.0	129	129	129	129	129	129	129	129	129	129	129	129	129	129
2.5	130	130	130	130	130	130	130	130	130	130	130	130	130	130
5.0	131	131	131	131	131	131	131	131	131	131	131	131	131	131
7.5	132	132	132	132	132	132	132	132	133	132	132	132	132	132
10.0	133	133	134	134	134	134	134	134	134	134	134	134	133	133
12.5	134	134	134	135	135	135	135	135	135	135	135	134	134	133
15.0	133	134	134	135	135	136	136	136	136	136	135	135	134	133
17.5	133	134	135	135	135	136	136	136	136	136	136	135	134	133
20.0	133	134	134	135	135	136	136	137	136	136	136	136	135	133
22.5	133	133	134	135	135	136	136	136	137	137	136	136	135	133
25.0	132	133	134	134	135	136	136	137	137	137	137	136	135	134
27.5	132	133	134	134	135	136	137	137	137	137	137	136	136	134
30.0	131	132	133	134	135	136	136	137	137	137	137	136	136	134
32.5	130	131	132	133	134	135	136	136	136	136	136	136	135	134
35.0	129	130	131	132	133	134	134	135	135	135	136	135	134	133
37.5	127	128	129	130	131	132	132	133	133	133	134	133	133	131
40.0	125	126	127	128	129	130	130	131	131	132	132	132	131	130
42.5	123	123	124	125	126	128	128	129	129	130	130	130	129	128
45.0	121	121	122	123	125	125	126	127	128	128	128	128	128	126
47.5	119	120	120	121	123	124	125	126	126	126	127	127	126	125
50.0	118	118	119	120	121	122	123	124	125	125	126	126	125	124
52.5	116	116	117	118	119	121	121	123	123	124	124	125	124	123
55.0	114	114	114	116	117	119	120	121	122	122	123	123	123	122
57.5	111	112	112	113	115	116	117	118	120	120	121	121	121	120
60.0	108	109	110	110	112	114	115	116	117	118	119	119	119	118
62.5	105	106	107	108	109	111	113	114	115	116	117	117	116	114
65.0	102	103	104	105	106	108	110	112	113	114	115	114	112	112
67.5	95	98	101	102	104	105	107	109	111	112	112	110	108	110
70.0	86	87	91	96	101	103	105	107	108	109	110	107	104	108
72.5	80	80	83	84	90	96	99	101	104	105	107	103	100	106
75.0	71	73	75	77	79	84	90	94	97	100	101	97	94	102
77.5	68	70	71	74	76	79	83	85	94	96	98	93	90	98
80.0	67	67	69	70	73	76	79	71	87	88	88	81	78	86
82.5	72	70	69	69	69	69	65	49	74	75	77	71	70	77
85.0	71	70	71	71	73	74	60	44	71	72	74	67	66	69
87.5	74	74	73	74	75	76	50	49	74	75	76	70	70	69
90.0	74	73	72	73	74	75	40	57	73	75	76	71	70	65
92.5	77	76	75	75	76	78	41	72	82	84	85	79	78	68
95.0	83	82	81	80	81	82	54	80	86	87	89	86	87	75
97.5	84	83	82	81	82	83	66	85	87	88	89	88	88	76
100.0	84	83	82	81	82	83	78	86	87	89	90	91	92	81
102.5	85	85	84	84	85	86	87	90	92	94	96	97	98	88
105.0	85	85	84	84	85	87	88	90	92	94	95	96	97	90
107.5	84	83	83	83	84	86	87	89	91	92	94	95	96	91
110.0	83	82	81	82	83	85	86	88	90	91	92	93	94	91
112.5	81	80	80	80	82	83	85	86	88	89	90	91	92	92
115.0	79	79	78	79	80	82	83	84	86	87	88	89	90	91
117.5	77	77	76	77	78	80	81	82	84	85	86	87	88	89
120.0	75	75	74	75	76	78	80	81	82	83	84	85	86	87
122.5	73	73	72	73	74	76	77	78	80	81	82	83	84	84
125.0	71	71	70	71	72	73	75	76	77	78	79	80	81	82
127.5	69	68	68	69	70	71	72	73	74	76	76	77	78	79
130.0	66	66	66	66	67	68	70	71	72	73	74	75	76	76
132.5	64	64	64	64	65	66	67	68	69	70	71	72	73	73
135.0	61	61	61	62	62	63	64	65	66	67	68	69	69	70
137.5	59	59	59	59	60	61	62	63	64	65	65	66	66	67
140.0	56	56	56	56	57	58	59	60	61	62	63	63	63	64
142.5	54	54	54	54	54	55	56	57	58	59	59	60	60	60
145.0	51	51	51	51	52	53	53	54	55	56	56	57	57	52
147.5	48	48	48	49	49	50	50	51	52	53	53	53	54	35



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CANDELA DISTRIBUTION
LATERAL ANGLE

	315.0	317.5	320.0	322.5	325.0	327.5	330.0	332.5	335.0	337.5	340.0	342.5	345.0	347.5
150.0	46	46	46	46	46	47	48	48	49	50	50	50	49	27
152.5	43	43	43	43	43	44	45	45	46	46	47	47	45	28
155.0	40	40	40	40	41	41	42	42	43	43	44	44	44	37
157.5	38	38	38	38	38	38	39	39	33	29	28	28	26	25
160.0	35	35	34	32	30	28	26	23	23	23	22	22	22	23
162.5	23	22	22	22	21	21	21	21	21	21	21	21	21	21
165.0	21	21	21	20	20	20	20	20	20	20	20	20	20	20
167.5	20	20	19	19	19	19	19	19	20	20	22	20	21	19
170.0	18	19	21	24	25	25	25	25	25	23	21	21	20	20
172.5	22	22	23	22	22	20	19	19	19	19	19	19	18	18
175.0	20	18	17	17	17	17	17	17	17	16	16	16	16	16
177.5	16	15	15	15	15	15	15	15	15	15	15	15	17	18
180.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16



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CANDELA DISTRIBUTION
LATERAL ANGLE

	350.0	352.5	355.0	357.5	360.0
0.0	129	129	129	129	129
2.5	130	130	130	130	130
5.0	131	131	130	130	130
7.5	132	132	132	131	131
10.0	133	133	132	132	132
12.5	133	133	132	132	132
15.0	133	132	132	131	131
17.5	132	131	130	130	129
20.0	132	131	129	129	128
22.5	132	130	128	127	126
25.0	132	129	127	125	124
27.5	132	129	125	123	122
30.0	132	128	124	121	120
32.5	131	127	122	119	117
35.0	131	126	120	116	114
37.5	129	125	118	112	110
40.0	127	123	115	108	106
42.5	125	121	113	104	101
45.0	124	120	111	101	97
47.5	123	119	110	97	93
50.0	122	118	109	94	89
52.5	121	117	108	92	85
55.0	119	116	108	89	81
57.5	118	115	107	86	76
60.0	115	112	104	81	69
62.5	112	108	101	78	63
65.0	110	107	100	77	59
67.5	108	105	99	74	54
70.0	107	104	98	66	50
72.5	105	103	98	57	46
75.0	102	103	98	48	42
77.5	96	98	94	42	40
80.0	86	92	89	39	38
82.5	77	87	84	35	35
85.0	69	82	80	34	34
87.5	69	85	85	38	34
90.0	65	83	84	48	34
92.5	67	86	85	58	35
95.0	74	93	93	69	36
97.5	74	93	93	79	37
100.0	80	97	98	88	38
102.5	87	101	101	96	41
105.0	89	100	101	98	42
107.5	90	99	99	97	43
110.0	91	97	98	95	45
112.5	92	95	95	93	44
115.0	92	93	93	90	44
117.5	90	90	91	88	44
120.0	87	88	88	85	44
122.5	85	85	85	81	44
125.0	82	83	83	78	43
127.5	80	80	80	78	37
130.0	77	77	77	75	37
132.5	74	74	74	71	37
135.0	70	71	71	68	37
137.5	67	68	68	65	38
140.0	64	64	64	61	38
142.5	60	55	52	47	36
145.0	43	38	34	32	30
147.5	28	28	28	28	28



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	CANDELA DISTRIBUTION				
	LATERAL ANGLE				
	350.0	352.5	355.0	357.5	360.0
150.0	27	27	27	27	27
152.5	26	26	26	26	26
155.0	32	28	25	25	25
157.5	24	24	24	24	24
160.0	23	23	23	23	23
162.5	21	21	22	21	21
165.0	20	20	20	20	19
167.5	19	14	12	11	11
170.0	20	20	20	19	19
172.5	18	18	18	17	17
175.0	16	16	16	17	19
177.5	19	19	19	19	19
180.0	16	16	16	16	16



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5-DEGREE ZONAL LUMEN SUMMARY		
0- 5		3
5- 10		9
10- 15		15
15- 20		21
20- 25		27
25- 30		32
30- 35		37
35- 40		40
40- 45		43
45- 50		45
50- 55		46
55- 60		47
60- 65		45
65- 70		44
70- 75		42
75- 80		40
80- 85		39
85- 90		39
90- 95		41
95-100		43
100-105		44
105-110		43
110-115		41
115-120		38
120-125		34
125-130		30
130-135		26
135-140		22
140-145		18
145-150		13
150-155		9
155-160		6
160-165		4
165-170		2
170-175		1
175-180		0

10-DEGREE ZONAL LUMEN SUMMARY		
0- 10		12
0- 20		49
0- 30		108
0- 40		185
0- 50		274
0- 60		367
0- 70		456
0- 80		538
0- 90		616
0-100		700
0-110		788
0-120		867
0-130		931
0-140		980
0-150		1011
0-160		1026
0-170		1032
0-180		1034



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30		10
0	109	109	109	109	102	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	96	91	85	81	89	84	80	75	73	69	66	62	59	57	52	50	48	43	43
2	87	77	70	63	80	72	65	59	62	56	52	52	48	45	44	41	38	33	33
3	78	67	58	51	72	62	54	48	53	47	42	45	41	36	38	34	31	27	27
4	71	59	49	42	66	55	46	40	47	40	35	40	35	30	33	29	26	22	22
5	65	52	43	36	60	48	40	34	42	35	30	35	30	26	30	25	22	19	19
6	60	46	37	31	55	43	35	29	37	31	26	32	26	22	27	22	19	16	16
7	55	42	33	27	51	39	31	25	34	27	22	29	23	19	24	20	17	14	14
8	51	38	29	23	47	35	27	22	31	24	20	26	21	17	22	18	15	12	12
9	47	34	26	21	44	32	25	20	28	22	17	24	19	15	20	16	13	11	11
10	44	31	24	18	41	29	22	17	26	20	16	22	17	14	19	15	12	10	10

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

Project Number
0.00000

Date
01/30/2020

Goniophotometer Calibration

Calibration Lamp : Osram ST8-HA4-250-840 22W / 4000K

Lamp Number: RM B6-28

Ballast: Vossloh Schwabe LN 36.149

Ballast Number: RM B6-28

Calibration Voltage/Frequency: 220Vac / 50hz

Total Luminous Flux: 2463 Lumens

Calibration Date: 06/25/2019

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	LMT/GO-DS 1600 Lab 4 Test Dist.: 31.0'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27074V	10/31/2020
<i>Power Supply</i>	Chroma / 61604	13117591	N/A
<i>Thermometer</i>	LMT / ATS-4Ch	10B623-3	10/31/2020

3-Meter-Sphere Calibration

Calibration Lamp: EIKO 28V75W/E10

Lamp Number: SCL-1400-K136

Calibration Current: 2.679 Amps

Total Luminous Flux: 1429 Lumens

Test Equipment Used - Color & SPD; THD & Power Factor

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>3-Meter Sphere</i>	Labsphere / LMS-3M	N/A	Calibration Checked Daily
<i>Thermometer</i>	National Instruments / USB TC01	1912751	10/31/2020
<i>Power Analyzer</i>	Yokogawa / WT332	C2QA27075V	10/31/2020
<i>Power Supply</i>	Chroma / 61602	616020002113	N/A
<i>Power Supply PF/THD</i>	Voltage-Regulated House Power	N/A	N/A
<i>Aux Lamp Supply</i>	GW Instek / PSU 150-10	GER221028	N/A
<i>Cal Lamp Supply</i>	Labsphere / LPS-150-0268	1218148505	N/A
<i>Spectrometer</i>	Labsphere / CDS 1100	0624117792	N/A

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This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.