

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: P34240

Luminaire Tested: **861-21-W-L4/835-UNV**

Test Date: 06/30/15

Test Information

Test Method: LM-79-08
Report Number: P34240
Test Lab: INNOVATION CENTER-P3
Test Date: 06/30/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 861-21-W-L4/835-UNV
Description: SHAPER 861 LANTERN SCONCE.
Light Source: [12] COOPER LIGHTING 3500K LEDS
12439451
Ballast/Driver: [1] ROAL ELECTRONIC DRIVER
RSLD035-07

Summary

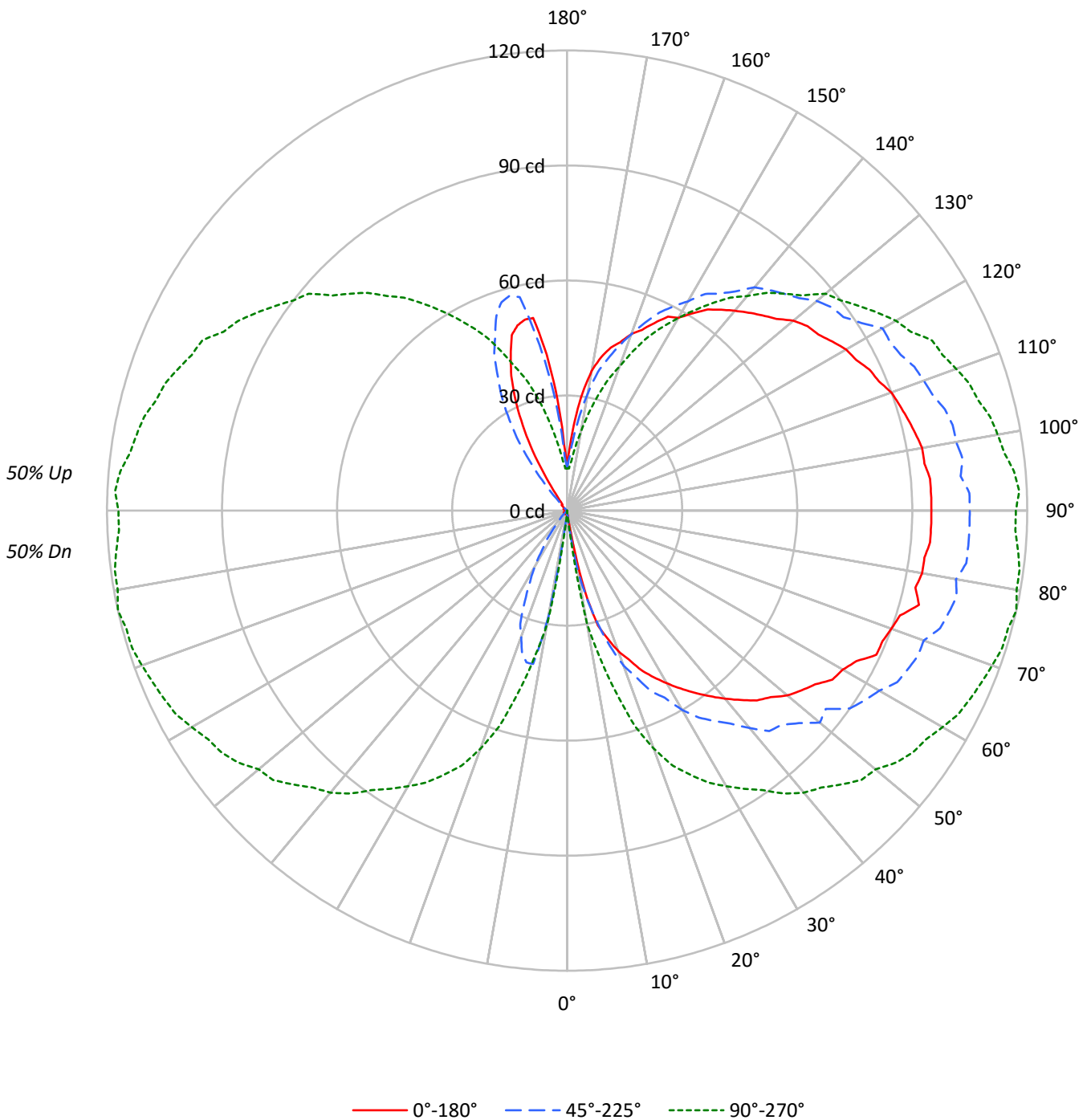
Lumens per Lamp: N/A
Luminaire Lumens: 889.9 lumens
Efficiency: N/A
Efficacy: 29.7 lumens/watt
Spacing Criteria (0/90/45): 8.84 / 12.22 / 8.24
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 0.29' x H: 1.75')
CIE Type: General Diffuse

Input Watts (W): 30
Input Voltage (V): 120.0
Input Current (Ain): 0.2605
Voltage Rise (V): NR
Power Factor: 0.9774
Total Harmonic Distortion (THDi): 19.3
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	50	30	10	0
RCR																					
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56	50
1	92	86	80	74	84	79	73	68	65	61	57	53	50	47	41	39	37	37	37	37	31
2	82	72	64	56	74	66	58	52	54	48	43	43	39	35	33	30	27	27	27	27	22
3	74	61	52	45	67	56	48	41	46	39	34	36	31	27	28	24	21	21	21	21	16
4	66	53	44	36	60	49	40	33	40	33	27	31	26	22	24	20	16	16	16	16	12
5	60	47	37	30	55	43	34	28	35	28	23	28	22	18	21	17	13	13	13	13	10
6	55	41	32	25	50	38	29	23	31	24	19	24	19	15	19	14	11	11	11	11	8
7	51	37	28	22	46	34	26	20	28	21	16	22	17	13	17	13	9	9	9	9	7
8	47	33	25	19	43	30	22	17	25	19	14	20	15	11	15	11	8	8	8	8	5
9	44	30	22	16	40	28	20	15	23	16	12	18	13	10	14	10	7	7	7	7	5
10	41	27	19	14	37	25	18	13	21	15	11	17	12	8	13	9	6	6	6	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40	40	40
5°	27	0	27
10°	159	918	20
15°	495	1351	16
20°	525	1668	13
25°	538	1786	12
30°	542	1835	10
35°	548	1872	9
40°	557	1939	9
45°	569	1977	8
50°	576	2008	8
55°	579	2072	7
60°	587	2113	7
65°	611	2169	7
70°	606	2224	0
75°	632	2278	0
80°	622	2333	0
85°	631	2388	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.1
10°-20°	9.4	1.1
20°-30°	21.5	2.4
30°-40°	34.9	3.9
40°-50°	50.0	5.6
50°-60°	65.8	7.4
60°-70°	79.8	9.0
70°-80°	89.9	10.1
80°-90°	94.7	10.6
90°-100°	93.9	10.6
100°-110°	87.5	9.8
110°-120°	76.4	8.6
120°-130°	62.3	7.0
130°-140°	47.7	5.4
140°-150°	35.4	4.0
150°-160°	24.8	2.8
160°-170°	13.0	1.5
170°-180°	2.5	0.3
0°-30°	31.4	3.5
0°-40°	66.3	7.5
0°-60°	182.1	20.5
0°-90°	446.4	50.2
90°-120°	257.9	29.0
90°-150°	403.2	45.3
90°-180°	443.0	49.8
0°-180°	889.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1	1	1	1	1	
5°	1	1	0	0	1	0
15°	31	30	49	41	1	8
25°	46	52	76	26	1	21
35°	58	67	89	9	1	37
45°	70	79	101	1	1	54
55°	79	90	110	0	1	71
65°	89	98	116	0	1	87
75°	95	103	119	0	0	98
85°	95	105	118	0	0	77
90°	95	105	117	0	0	52
95°	95	103	117	0	0	77
105°	92	102	111	0	0	97
115°	87	96	105	0	1	86
125°	80	88	93	0	1	72
135°	72	80	80	1	2	56
145°	64	69	66	22	4	40
155°	54	57	50	45	32	25
165°	44	41	31	58	50	12
175°	24	19	13	24	29	3
180°	11	11	11	11	11	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1	1	1	1	1	1	1	1	1	1	1
2.5°	2	2	2	2	1	1	1	1	0	1	1
5°	1	2	2	2	2	1	1	1	1	1	1
7.5°	1	2	2	3	2	2	2	2	3	4	5
10°	8	8	10	10	10	10	10	11	12	14	15
12.5°	22	22	23	24	23	22	23	23	22	23	23
15°	31	31	32	33	32	32	32	31	30	30	30
17.5°	35	36	38	38	38	38	38	38	37	37	37
20°	39	39	41	42	43	43	43	43	43	42	43
22.5°	42	43	45	46	47	47	48	48	48	47	47
25°	46	46	49	50	52	52	52	53	52	51	52
27.5°	49	50	51	54	56	56	56	57	58	55	55
30°	52	53	56	58	60	60	61	61	61	60	60
32.5°	55	56	59	61	63	64	65	65	65	63	64
35°	58	59	62	65	67	68	69	69	69	67	67
37.5°	61	62	65	70	71	71	72	73	73	72	70
40°	64	65	69	71	74	74	76	77	76	74	74
42.5°	67	68	72	74	78	78	80	80	80	78	78
45°	70	71	74	78	82	83	83	83	83	81	79
47.5°	72	74	77	80	84	84	85	87	88	84	82
50°	75	76	79	83	87	88	89	90	89	87	86
52.5°	77	78	82	86	91	91	92	93	92	89	85
55°	79	81	85	89	92	93	95	95	95	92	90
57.5°	82	83	87	91	95	96	98	98	98	95	92
60°	83	85	89	93	97	100	100	100	100	97	94
62.5°	85	87	91	95	100	101	102	103	102	99	97
65°	89	89	94	97	102	103	105	105	104	101	98
67.5°	89	91	95	99	103	105	106	107	106	101	99
70°	90	91	96	102	105	106	107	108	107	105	99
72.5°	91	93	97	102	106	108	110	110	109	105	102
75°	95	94	98	103	109	109	111	111	111	108	103
77.5°	93	95	99	104	109	110	111	113	111	108	104
80°	94	95	100	105	110	111	113	113	112	108	103
82.5°	94	97	100	105	110	113	113	114	112	109	105
85°	95	96	101	105	110	112	114	114	113	109	105
87.5°	95	97	101	105	111	112	114	114	113	110	105
90°	95	96	101	107	111	112	114	114	113	111	105
92.5°	95	96	101	106	110	112	114	114	113	110	105
95°	95	96	101	106	110	112	114	114	113	110	105
97.5°	94	96	100	105	109	110	113	113	112	110	104
100°	94	95	99	104	110	110	112	112	111	109	103
102.5°	93	94	98	104	109	109	111	112	110	107	103
105°	92	94	97	103	107	108	109	110	109	106	102
107.5°	91	93	96	101	105	107	108	109	108	105	100
110°	90	92	95	100	104	105	107	107	107	104	99



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	88	89	93	98	102	103	105	106	105	102	98
115°	87	88	92	96	100	101	102	104	104	101	96
117.5°	85	86	90	94	98	100	101	102	101	99	95
120°	84	85	88	92	96	99	99	100	99	97	95
122.5°	82	83	86	90	94	95	97	98	97	95	91
125°	80	81	85	88	92	92	94	95	95	93	88
127.5°	79	79	82	86	89	90	92	93	92	91	87
130°	77	78	80	85	87	88	89	90	90	88	85
132.5°	74	75	78	82	84	86	87	87	87	87	82
135°	72	73	76	79	81	83	84	85	85	85	80
137.5°	70	71	74	76	79	80	81	82	83	82	78
140°	68	69	71	75	76	77	78	79	79	78	76
142.5°	66	67	69	72	73	75	75	76	76	75	72
145°	64	64	66	68	71	71	72	73	74	72	69
147.5°	61	63	64	66	67	68	69	70	70	69	67
150°	58	59	61	63	64	65	65	66	66	66	63
152.5°	57	57	59	60	61	61	62	63	64	63	60
155°	54	54	56	57	58	58	59	59	60	59	57
157.5°	51	52	53	54	54	55	55	55	55	54	53
160°	49	49	50	51	51	51	51	51	52	51	49
162.5°	46	47	48	48	48	48	48	48	47	47	45
165°	44	44	44	45	44	44	44	43	43	42	41
167.5°	41	41	41	42	40	40	40	39	38	38	37
170°	37	38	38	37	36	36	35	34	33	33	31
172.5°	31	32	32	31	30	29	29	28	27	26	25
175°	24	24	24	25	23	23	23	21	21	20	19
177.5°	17	17	18	18	17	16	16	15	15	15	14
180°	11	11	11	11	11	11	11	11	11	11	11



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1	1	1	1	1	1	1	1	1	1	1
2.5°	1	0	0	0	0	0	0	0	0	0	0
5°	1	1	1	1	1	1	1	0	0	0	0
7.5°	6	7	7	8	9	11	14	15	11	9	8
10°	17	18	19	19	19	19	24	26	29	30	30
12.5°	24	25	27	27	26	25	28	32	36	39	42
15°	31	32	33	35	34	32	32	35	43	49	51
17.5°	38	39	40	42	42	40	38	39	46	59	61
20°	44	45	47	48	49	47	44	44	49	66	70
22.5°	49	51	52	55	55	54	50	48	52	72	83
25°	53	56	58	60	61	61	57	53	55	76	101
27.5°	58	60	63	66	67	67	63	57	57	80	112
30°	62	65	67	71	73	73	70	63	61	83	121
32.5°	66	70	73	76	78	78	75	68	65	86	129
35°	70	73	77	81	83	83	82	74	68	89	136
37.5°	73	77	81	85	88	87	86	79	71	93	143
40°	77	81	85	91	92	93	91	85	74	96	150
42.5°	79	84	89	94	97	97	96	91	79	98	155
45°	83	87	93	99	101	102	101	95	82	101	161
47.5°	85	90	97	103	105	106	105	101	86	104	167
50°	89	94	100	106	109	110	110	105	89	105	172
52.5°	91	96	103	110	113	114	114	110	93	108	177
55°	93	99	106	113	115	118	118	114	97	110	180
57.5°	95	101	109	116	119	121	122	118	100	111	184
60°	97	104	112	119	123	124	125	121	103	113	186
62.5°	99	106	114	122	125	127	128	125	107	115	189
65°	101	108	115	124	128	128	132	126	109	116	191
67.5°	102	110	118	126	130	132	133	131	112	117	194
70°	104	110	120	128	132	134	136	133	114	118	195
72.5°	105	112	121	130	134	136	137	135	116	119	196
75°	106	113	122	131	135	136	140	137	117	119	197
77.5°	107	113	123	132	135	139	140	138	120	120	193
80°	107	115	123	133	137	139	142	140	121	119	196
82.5°	107	114	124	134	138	140	143	140	124	119	195
85°	108	114	124	133	138	140	143	142	123	118	193
87.5°	108	114	124	134	137	140	142	140	124	117	191
90°	107	114	124	133	137	140	142	140	124	117	185
92.5°	107	115	123	133	137	140	142	140	124	118	187
95°	107	115	123	133	137	140	142	140	124	118	187
97.5°	106	114	123	132	135	138	141	139	124	115	180
100°	106	112	122	130	134	137	139	137	123	114	177
102.5°	105	111	120	130	131	135	138	136	122	113	173
105°	104	110	119	128	130	134	136	134	121	111	169
107.5°	103	108	116	126	130	130	134	132	118	110	164
110°	101	108	115	124	127	128	132	129	118	108	157



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	99	105	114	122	125	127	129	128	116	106	154
115°	98	103	112	119	122	124	126	124	114	105	149
117.5°	96	101	109	117	120	121	125	121	112	101	144
120°	94	99	107	114	117	118	121	119	108	99	137
122.5°	93	97	104	111	112	115	117	115	105	96	131
125°	90	95	101	108	109	111	115	110	102	93	126
127.5°	88	92	98	105	107	107	109	106	99	90	121
130°	85	89	95	101	103	104	107	102	96	88	115
132.5°	83	86	92	97	99	99	101	98	91	83	109
135°	80	83	89	94	95	95	97	94	87	80	103
137.5°	77	81	85	90	91	91	94	89	83	77	97
140°	74	77	82	86	87	87	88	84	79	73	91
142.5°	72	74	78	81	82	82	83	80	75	70	85
145°	69	71	74	77	78	78	78	76	71	66	80
147.5°	66	67	70	73	73	73	74	70	66	62	74
150°	63	63	66	68	68	68	69	65	61	58	66
152.5°	59	60	61	63	63	63	64	59	56	54	62
155°	56	56	57	58	58	58	57	54	51	50	56
157.5°	52	51	52	53	53	52	52	49	46	45	50
160°	48	47	47	48	47	47	46	44	41	40	45
162.5°	44	43	43	42	42	42	40	38	36	36	39
165°	40	38	38	37	37	36	35	33	31	31	34
167.5°	36	33	32	31	31	30	30	28	27	26	28
170°	30	28	27	26	26	25	24	23	22	21	23
172.5°	24	23	22	21	21	20	19	19	18	17	17
175°	19	18	17	16	16	15	15	14	13	13	14
177.5°	14	14	13	13	13	12	12	11	11	11	11
180°	11	11	11	11	11	11	11	11	11	11	11



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CATALOG NUMBER: 861-21-W-L4/835-UNV

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1	1	1	1	1	1	1	1	1	1	1
2.5°	0	0	0	0	0	0	0	0	0	1	1
5°	0	0	0	0	0	0	0	0	0	1	1
7.5°	8	8	7	7	6	4	4	2	2	2	2
10°	25	27	28	29	29	30	30	29	28	23	16
12.5°	40	38	41	44	45	49	50	46	41	34	28
15°	55	48	53	55	58	56	52	48	41	34	27
17.5°	66	59	63	63	61	58	52	45	39	31	24
20°	78	69	68	66	62	55	49	42	35	27	21
22.5°	89	84	72	68	61	53	45	38	32	24	17
25°	101	101	76	69	60	49	41	34	26	19	14
27.5°	111	118	80	69	58	46	36	28	21	16	11
30°	123	134	83	70	56	41	32	24	17	12	8
32.5°	133	146	87	69	54	37	26	18	12	8	5
35°	144	159	90	70	51	32	21	13	9	5	4
37.5°	156	171	92	69	48	26	15	9	5	3	2
40°	169	183	95	68	45	21	10	5	3	2	1
42.5°	182	196	99	67	42	16	6	3	2	1	1
45°	194	208	101	66	38	11	3	1	1	1	1
47.5°	207	218	104	65	35	8	1	1	0	0	0
50°	217	230	108	64	33	6	1	0	0	0	0
52.5°	227	241	112	65	31	5	0	0	0	0	0
55°	235	250	114	65	31	5	0	0	0	0	0
57.5°	243	259	118	66	31	5	0	0	0	0	0
60°	250	267	121	67	31	5	0	0	0	0	0
62.5°	256	275	124	68	31	4	0	0	0	0	0
65°	262	281	128	68	30	4	0	0	0	0	0
67.5°	267	286	131	68	30	4	0	0	0	0	0
70°	271	294	133	69	30	4	0	0	0	0	0
72.5°	275	299	138	70	30	4	0	0	0	0	0
75°	278	304	139	70	29	4	0	0	0	0	0
77.5°	280	309	142	70	29	4	0	0	0	0	0
80°	281	312	146	70	29	4	0	0	0	0	0
82.5°	281	317	148	70	28	4	0	0	0	0	0
85°	281	316	150	69	28	3	0	0	0	0	0
87.5°	279	320	151	69	27	3	0	0	0	0	0
90°	277	317	152	69	27	3	0	0	0	0	0
92.5°	275	318	153	68	27	3	0	0	0	0	0
95°	270	321	154	69	26	3	0	0	0	0	0
97.5°	269	320	153	67	26	3	0	0	0	0	0
100°	265	317	152	68	25	3	0	0	0	0	0
102.5°	259	313	152	66	25	3	0	0	0	0	0
105°	254	308	152	66	25	3	0	0	0	0	0
107.5°	246	302	151	66	24	3	0	0	0	0	0
110°	241	292	150	64	24	3	0	0	0	0	0



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CATALOG NUMBER: 861-21-W-L4/835-UNV

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	232	288	149	65	24	3	0	0	0	0	0
115°	224	281	148	63	23	3	0	0	0	0	0
117.5°	216	269	146	62	23	3	0	0	0	0	0
120°	207	262	145	61	23	3	0	0	0	0	0
122.5°	198	252	140	60	22	3	0	0	0	0	0
125°	187	242	138	60	23	3	0	0	0	0	0
127.5°	179	228	137	61	24	4	0	0	0	0	0
130°	169	218	136	64	27	5	1	1	0	0	1
132.5°	159	207	135	68	32	9	2	1	1	1	1
135°	149	194	134	71	36	14	6	2	1	1	1
137.5°	138	179	133	73	41	19	12	7	3	2	1
140°	129	167	131	76	45	25	18	13	9	5	3
142.5°	119	153	129	79	49	30	23	19	15	11	7
145°	110	141	125	81	54	35	29	25	22	17	15
147.5°	100	128	120	84	57	40	34	31	28	24	21
150°	91	116	114	86	61	45	40	37	34	31	28
152.5°	81	104	105	88	62	49	45	42	39	36	34
155°	72	91	98	87	64	53	49	47	45	42	40
157.5°	64	79	87	83	66	56	54	51	49	48	46
160°	55	67	77	77	67	58	57	55	54	52	50
162.5°	47	56	65	68	65	59	59	58	57	55	54
165°	40	47	55	57	58	57	60	59	58	57	56
167.5°	33	39	45	48	49	50	51	56	57	56	55
170°	26	31	35	37	38	41	42	44	46	48	50
172.5°	19	21	26	27	28	29	32	35	35	37	38
175°	15	15	17	17	18	19	21	23	24	25	26
177.5°	11	12	12	12	13	13	14	14	14	15	15
180°	11	11	11	11	11	11	11	11	11	11	11



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1	1	1	1	1	1	1	1
2.5°	1	1	1	1	3	2	1	1
5°	1	1	1	2	3	2	2	1
7.5°	1	1	1	2	3	2	1	1
10°	11	8	7	7	5	4	2	1
12.5°	20	14	12	10	8	6	2	1
15°	20	15	12	11	8	6	3	1
17.5°	18	13	11	10	8	5	3	1
20°	15	11	9	8	7	5	3	1
22.5°	12	9	8	7	6	4	2	1
25°	10	7	6	6	5	4	2	1
27.5°	7	5	5	4	4	3	2	1
30°	5	4	3	4	4	3	2	1
32.5°	4	3	3	3	3	3	2	1
35°	2	2	2	2	3	2	2	1
37.5°	1	1	1	2	3	2	1	1
40°	1	1	1	2	3	2	1	1
42.5°	1	1	1	1	2	2	1	1
45°	0	1	1	1	2	2	1	1
47.5°	0	0	1	1	2	2	1	1
50°	0	0	1	1	2	2	1	1
52.5°	0	0	1	1	2	2	1	1
55°	0	0	1	1	2	2	1	1
57.5°	0	0	1	1	2	2	1	1
60°	0	0	0	1	2	2	1	1
62.5°	0	0	1	1	2	2	1	1
65°	0	0	0	1	2	2	1	1
67.5°	0	0	0	1	2	2	1	0
70°	0	0	0	1	2	2	1	0
72.5°	0	0	0	1	2	2	1	0
75°	0	0	0	1	2	2	1	0
77.5°	0	0	0	1	2	2	1	0
80°	0	0	0	1	2	2	1	0
82.5°	0	0	0	1	2	2	1	0
85°	0	0	0	1	2	2	1	0
87.5°	0	0	0	1	2	2	1	0
90°	0	0	0	1	2	2	1	0
92.5°	0	0	0	1	2	2	1	0
95°	0	0	0	1	2	2	1	0
97.5°	0	0	0	1	2	2	1	0
100°	0	0	0	1	2	2	1	0
102.5°	0	0	0	1	2	2	1	0
105°	0	0	0	1	2	2	1	0
107.5°	0	0	0	1	2	2	1	0
110°	0	0	0	1	2	2	1	1



TEST NUMBER: P34240

CATALOG NUMBER: 861-21-W-L4/835-UNV

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	0	0	0	1	2	2	1	1
115°	0	0	1	1	2	2	1	1
117.5°	0	0	1	1	2	2	1	1
120°	0	0	1	1	2	2	1	1
122.5°	0	0	1	1	2	2	1	1
125°	1	1	1	2	3	2	2	1
127.5°	1	1	1	2	3	2	2	1
130°	1	1	1	2	3	2	2	1
132.5°	1	1	1	2	3	2	2	1
135°	1	1	1	2	3	3	2	2
137.5°	1	1	2	2	3	3	2	2
140°	2	2	2	3	4	3	3	2
142.5°	4	3	3	3	4	4	3	2
145°	12	9	8	7	7	6	5	4
147.5°	18	16	15	15	14	13	11	10
150°	25	23	22	22	22	20	18	18
152.5°	32	30	29	29	29	27	26	25
155°	38	36	36	35	35	34	33	32
157.5°	44	42	42	41	42	40	39	38
160°	49	48	47	47	47	46	44	43
162.5°	53	52	51	51	51	50	49	48
165°	55	53	53	54	54	52	52	50
167.5°	55	54	55	54	55	54	53	51
170°	52	53	53	52	53	52	52	51
172.5°	39	40	41	42	42	42	42	41
175°	27	28	28	28	30	30	30	29
177.5°	16	16	17	17	18	18	17	17
180°	11	11	11	11	11	11	11	11

(END OF REPORT)