

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: P34241

Luminaire Tested: **865-14-W-L2/835-UNV**

Test Date: 06/30/15

**Test Information**

Test Method: LM-79-08  
Report Number: P34241  
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: 865-14-W-L2/835-UNV  
Description: SHAPER 865 LOOP CIRCULAR WALL SCONCE.  
Light Source: [18] COOPER LIGHTING 3500K LEDS  
12499797  
Ballast/Driver: [1] ROAL ELECTRONIC DRIVER  
RSLD035-7C

**Summary**

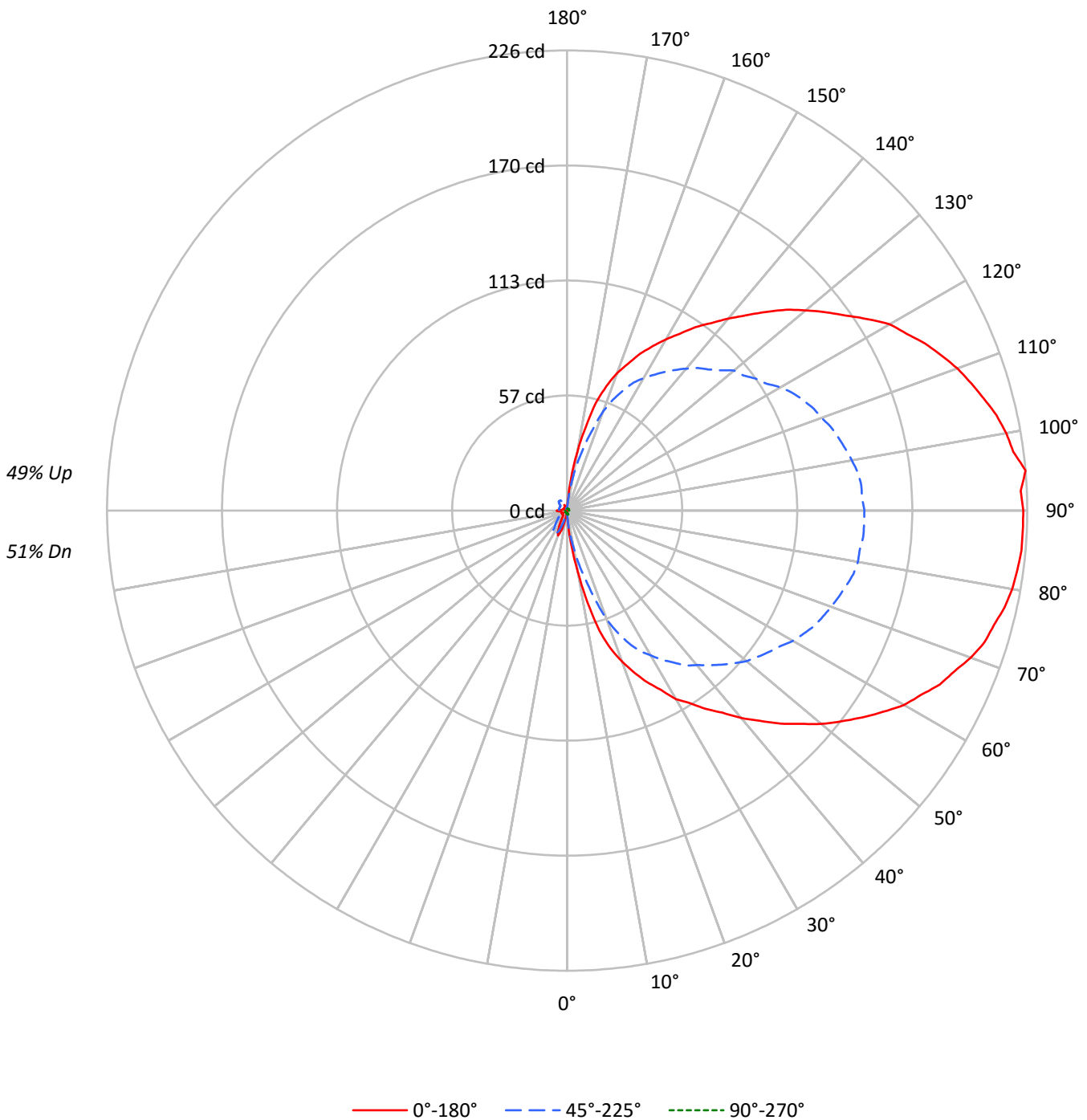
Lumens per Lamp: N/A  
Luminaire Lumens: 691.9 lumens  
Efficiency: N/A  
Efficacy: 47.1 lumens/watt  
Spacing Criteria (0/90/45): 11.99 / 1.53 / 9.35  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 0.29' x H: 1.17')  
CIE Type: General Diffuse

Input Watts (W): 14.7  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.131  
Voltage Rise (V): NR  
Power Factor: 0.9627  
Total Harmonic Distortion (THDi): 24.4  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: HR  
Ambient Temperature (°C): 24.9  
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			
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
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57	57	57	51
1	92	86	79	74	84	78	73	68	65	61	57		53	50	47		42	39	37	31
2	82	72	63	56	74	65	58	51	54	48	43		43	39	35		33	30	27	22
3	73	61	52	44	66	56	47	40	46	39	34		36	31	27		28	24	21	16
4	66	53	43	36	60	48	39	33	39	33	27		31	26	22		24	20	16	12
5	60	46	37	29	55	42	34	27	35	28	22		27	22	18		21	17	13	10
6	55	41	31	25	50	37	29	23	31	24	19		24	19	15		19	14	11	8
7	51	37	27	21	46	33	25	19	27	21	16		22	16	12		17	12	9	6
8	47	33	24	18	42	30	22	17	25	18	14		20	15	11		15	11	8	5
9	43	30	21	16	39	27	20	14	22	16	12		18	13	9		14	10	7	4
10	40	27	19	14	37	25	18	13	21	15	10		17	12	8		13	9	6	4

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	32	32	32
5°	235	58	24
10°	584	55	38
15°	964	52	142
20°	1083	25	178
25°	1133	24	122
30°	1181	23	66
35°	1209	23	41
40°	1261	22	28
45°	1324	22	27
50°	1391	22	26
55°	1454	23	25
60°	1524	23	16
65°	1579	24	23
70°	1628	25	23
75°	1665	26	23
80°	1707	27	23
85°	1740	29	31



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.6	0.1
10°-20°	5.7	0.8
20°-30°	15.7	2.3
30°-40°	26.8	3.9
40°-50°	39.2	5.7
50°-60°	52.4	7.6
60°-70°	64.5	9.3
70°-80°	73.3	10.6
80°-90°	77.6	11.2
90°-100°	76.9	11.1
100°-110°	71.2	10.3
110°-120°	61.4	8.9
120°-130°	48.9	7.1
130°-140°	35.7	5.2
140°-150°	23.6	3.4
150°-160°	13.1	1.9
160°-170°	4.7	0.7
170°-180°	0.4	0.1
0°-30°	22.0	3.2
0°-40°	48.8	7.1
0°-60°	140.5	20.3
0°-90°	355.9	51.4
90°-120°	209.6	30.3
90°-150°	317.8	45.9
90°-180°	336.0	48.6
0°-180°	691.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1	1	1	1	1	
5°	10	8	2	1	1	2
15°	61	35	2	3	9	17
25°	93	72	1	12	10	43
35°	119	91	1	12	4	75
45°	148	107	1	7	3	115
55°	177	121	1	4	3	159
65°	202	134	1	4	3	200
75°	217	142	1	4	3	230
85°	224	146	1	4	4	182
90°	224	146	1	4	5	123
95°	226	145	1	4	3	182
105°	212	138	1	4	2	224
115°	194	128	1	4	1	192
125°	167	113	1	4	2	151
135°	138	98	1	6	2	107
145°	110	83	1	6	2	69
155°	85	65	1	2	3	40
165°	55	33	1	1	0	16
175°	8	4	1	1	0	2
180°	1	1	1	1	1	



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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°	4	4	4	4	4	4	4	4	4	4	3
5°	10	10	10	11	10	10	10	10	9	8	8
7.5°	19	19	19	19	18	18	17	16	15	14	13
10°	31	30	30	30	28	28	27	25	23	21	19
12.5°	46	45	45	44	42	41	39	36	33	30	27
15°	61	61	60	59	56	55	54	50	46	41	35
17.5°	71	70	71	70	68	66	65	62	58	53	46
20°	79	78	78	77	76	75	74	70	68	64	57
22.5°	86	86	85	84	83	82	81	78	75	71	65
25°	93	92	92	90	89	88	87	84	80	77	72
27.5°	99	99	99	97	95	94	94	90	86	83	78
30°	107	105	105	103	101	100	99	95	92	88	82
32.5°	112	111	111	109	107	106	105	101	97	93	87
35°	119	118	117	115	113	111	111	105	101	97	91
37.5°	125	125	124	122	119	117	116	111	107	102	96
40°	133	132	131	127	125	123	122	116	111	106	99
42.5°	140	139	138	135	131	129	127	122	116	110	103
45°	148	147	145	142	138	135	134	127	121	115	107
47.5°	155	154	152	149	144	142	140	133	126	119	111
50°	163	161	160	156	151	147	146	138	131	123	115
52.5°	170	169	168	163	158	155	152	144	136	127	118
55°	177	176	174	170	164	161	158	149	140	132	121
57.5°	184	182	181	176	170	166	165	153	145	135	124
60°	191	189	188	182	176	172	170	159	148	139	128
62.5°	196	195	193	188	181	177	174	164	153	143	131
65°	202	200	199	193	186	182	178	168	157	145	134
67.5°	206	205	203	197	191	186	183	172	161	148	136
70°	211	209	208	202	195	190	187	175	164	152	138
72.5°	215	214	211	205	197	194	190	178	167	154	140
75°	217	216	214	208	201	196	193	181	168	155	142
77.5°	220	218	217	211	202	199	195	182	171	158	144
80°	222	220	218	212	206	201	197	185	173	160	145
82.5°	223	221	220	214	207	202	198	186	174	160	145
85°	224	222	222	214	207	203	200	185	174	161	146
87.5°	224	222	223	215	208	203	199	187	175	161	146
90°	224	224	221	215	208	203	199	187	174	160	146
92.5°	223	223	220	214	207	202	198	185	174	160	145
95°	226	222	218	213	206	202	197	186	173	160	145
97.5°	221	219	218	211	203	200	196	184	172	158	144
100°	219	217	215	209	202	198	193	182	170	157	142
102.5°	216	214	213	207	202	195	191	180	167	154	140
105°	212	210	209	201	197	193	187	176	165	152	138
107.5°	208	206	205	199	193	188	184	173	162	149	136
110°	204	202	201	195	189	184	179	169	158	146	133



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	199	197	196	190	184	179	176	165	154	143	131
115°	194	192	190	185	179	174	170	160	150	139	128
117.5°	188	186	185	179	172	169	165	156	146	135	125
120°	183	181	178	172	168	163	159	151	141	130	121
122.5°	175	173	172	167	162	158	153	146	136	127	116
125°	167	166	165	161	155	150	148	140	131	123	113
127.5°	160	159	158	153	149	146	141	134	126	118	109
130°	153	152	151	147	142	139	135	130	121	114	107
132.5°	146	144	143	141	135	132	129	123	116	110	102
135°	138	137	135	132	130	126	123	119	111	105	98
137.5°	130	129	129	125	123	120	117	112	106	100	95
140°	123	122	121	119	116	114	111	107	101	97	91
142.5°	116	115	114	112	109	107	105	102	97	93	87
145°	110	108	108	106	104	102	100	96	93	88	83
147.5°	103	102	102	100	98	96	94	92	88	84	79
150°	97	97	95	94	92	90	89	87	83	79	75
152.5°	91	90	90	89	87	86	84	82	78	75	71
155°	85	84	84	83	81	80	78	76	73	69	65
157.5°	78	78	78	77	75	74	72	71	67	63	59
160°	72	71	70	70	68	68	66	64	60	57	52
162.5°	64	64	63	62	61	60	58	56	52	48	42
165°	55	55	54	53	52	50	49	46	42	37	33
167.5°	42	43	42	41	39	38	36	34	31	28	25
170°	30	29	29	28	27	26	25	24	21	19	17
172.5°	19	19	19	18	17	16	15	14	12	11	10
175°	8	9	8	7	7	7	7	6	5	5	4
177.5°	1	1	1	1	1	2	1	2	2	2	2
180°	1	1	1	1	1	1	1	1	1	1	1



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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°	3	3	3	2	2	2	2	2	2	2	2
5°	7	6	6	5	5	4	3	2	2	2	2
7.5°	11	10	9	7	7	6	5	3	2	2	2
10°	17	15	12	10	9	8	6	4	2	2	2
12.5°	23	19	16	13	12	10	8	5	3	2	2
15°	30	25	21	16	15	13	9	6	3	2	2
17.5°	39	32	26	20	18	16	11	7	4	2	2
20°	49	40	32	25	21	18	13	8	4	1	2
22.5°	59	48	39	29	25	21	15	9	5	1	2
25°	66	58	46	35	30	25	17	10	5	1	2
27.5°	72	65	54	41	34	29	19	12	5	1	2
30°	77	70	60	46	39	32	21	13	6	1	2
32.5°	81	74	65	52	44	37	24	14	7	1	2
35°	85	79	70	58	49	41	26	15	7	1	2
37.5°	89	82	74	62	55	46	29	16	7	1	2
40°	93	85	77	66	59	50	31	17	8	1	2
42.5°	96	89	80	70	63	54	34	19	8	1	2
45°	100	92	83	73	66	58	36	20	9	1	2
47.5°	103	95	86	75	69	61	39	21	9	1	2
50°	106	98	88	78	72	64	42	22	9	1	2
52.5°	109	100	90	80	74	66	44	24	10	1	2
55°	111	103	93	82	76	69	47	25	10	1	2
57.5°	114	104	95	84	78	70	49	26	10	1	2
60°	116	107	96	85	79	72	52	27	11	1	2
62.5°	119	109	98	86	81	73	54	28	11	1	2
65°	121	111	99	88	82	75	55	29	11	1	2
67.5°	123	112	101	89	83	76	57	30	12	1	2
70°	125	113	102	90	84	77	58	30	12	1	2
72.5°	126	115	103	91	85	78	60	31	12	1	2
75°	128	116	104	92	85	78	60	32	12	1	2
77.5°	129	116	104	92	87	79	61	32	12	1	2
80°	130	116	105	93	86	80	61	33	13	1	2
82.5°	130	117	105	93	86	79	62	33	13	1	2
85°	131	117	105	93	86	80	62	33	13	1	2
87.5°	131	117	105	93	86	79	62	34	13	1	2
90°	130	117	104	92	86	79	62	33	13	1	2
92.5°	130	117	105	92	86	79	62	33	13	1	2
95°	129	115	104	92	85	78	61	33	13	1	2
97.5°	129	115	103	91	85	78	61	33	13	1	2
100°	127	114	102	90	84	77	60	32	12	1	2
102.5°	126	113	101	89	83	76	60	32	12	1	2
105°	124	111	100	88	82	75	59	31	12	1	2
107.5°	122	109	98	87	81	75	57	31	12	1	2
110°	120	107	97	86	80	73	56	30	12	1	2





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	117	106	95	84	78	72	55	29	11	1	2
115°	115	103	94	83	77	71	53	28	11	1	2
117.5°	112	102	92	81	75	69	51	27	11	1	2
120°	109	99	90	80	74	67	49	26	10	1	1
122.5°	107	97	88	78	72	66	47	25	10	1	1
125°	105	95	86	76	70	64	45	24	10	1	1
127.5°	101	92	83	74	68	61	42	23	9	1	1
130°	98	89	81	71	66	59	40	21	9	1	1
132.5°	95	87	78	69	63	56	37	20	9	1	1
135°	91	84	76	67	61	53	35	19	8	1	1
137.5°	88	81	73	64	58	50	32	18	8	1	1
140°	85	78	70	60	54	46	29	17	7	1	1
142.5°	81	75	67	57	50	42	27	15	7	1	1
145°	77	71	63	53	46	39	25	14	7	1	1
147.5°	74	67	60	48	41	34	22	13	6	1	1
150°	69	63	55	43	36	30	20	12	6	1	1
152.5°	65	58	49	37	32	27	18	11	5	1	1
155°	59	52	43	32	28	23	16	10	5	1	1
157.5°	53	45	36	27	24	20	14	9	4	1	1
160°	45	37	30	23	20	17	12	8	4	1	1
162.5°	36	30	24	19	17	15	10	7	4	1	1
165°	28	24	19	15	14	12	9	6	3	1	1
167.5°	21	18	15	12	10	9	7	4	3	1	1
170°	15	12	10	8	7	6	5	3	2	1	1
172.5°	8	7	6	5	4	4	3	2	2	1	1
175°	4	4	3	3	3	2	2	2	1	1	1
177.5°	2	2	2	2	2	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1



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CATALOG NUMBER: 865-14-W-L2/835-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°	2	1	1	1	1	1	1	1	1	1	1
5°	2	2	2	2	1	2	1	1	1	1	1
7.5°	2	2	2	2	2	2	2	2	2	2	2
10°	2	2	2	2	2	2	2	2	2	2	2
12.5°	2	2	2	2	2	2	2	2	2	3	3
15°	2	2	2	2	2	2	3	3	3	4	5
17.5°	2	2	2	2	2	3	3	4	6	7	9
20°	2	2	2	2	3	3	4	6	8	10	11
22.5°	2	2	2	3	3	4	6	9	11	12	13
25°	2	2	3	3	4	6	8	11	12	13	13
27.5°	2	2	3	3	4	7	10	12	13	13	12
30°	2	2	3	4	6	9	12	13	13	12	11
32.5°	2	3	4	5	7	11	13	13	13	11	10
35°	2	3	4	6	8	12	13	13	12	10	8
37.5°	2	3	5	8	10	12	13	12	10	9	7
40°	2	3	6	9	11	13	13	11	9	7	6
42.5°	2	3	7	10	11	13	12	10	8	6	5
45°	2	3	8	10	12	13	11	9	7	5	4
47.5°	2	4	9	11	12	13	11	8	6	5	4
50°	2	4	10	12	13	13	10	7	6	4	4
52.5°	2	5	11	12	13	12	9	7	5	4	4
55°	2	5	11	13	13	11	9	6	4	4	4
57.5°	3	6	11	13	13	11	8	6	4	4	3
60°	3	6	12	13	13	10	7	5	4	4	3
62.5°	3	7	12	13	13	10	7	5	4	4	4
65°	3	7	12	13	13	9	6	5	4	4	3
67.5°	3	8	13	13	12	9	6	4	4	4	3
70°	3	8	13	13	12	9	6	4	4	4	3
72.5°	3	8	13	13	12	8	6	4	4	4	3
75°	3	9	13	13	12	8	5	4	4	4	4
77.5°	3	9	13	13	12	8	5	4	4	4	4
80°	3	9	13	13	11	8	5	4	4	4	4
82.5°	3	9	13	13	11	8	5	4	4	4	4
85°	3	9	13	13	11	8	5	4	4	4	4
87.5°	3	9	13	13	11	8	5	4	4	4	4
90°	3	9	13	13	11	8	5	4	4	4	4
92.5°	3	9	13	13	11	7	5	4	4	4	3
95°	3	9	13	13	11	7	5	4	4	4	3
97.5°	3	9	13	13	11	8	5	4	4	4	3
100°	3	9	13	13	11	8	5	4	4	3	3
102.5°	3	9	13	13	12	8	5	4	4	4	3
105°	3	9	13	13	12	8	5	4	4	3	3
107.5°	3	8	13	13	12	8	6	4	4	3	3
110°	3	8	12	13	12	9	6	4	4	3	3



TEST NUMBER: P34241

CATALOG NUMBER: 865-14-W-L2/835-UNV

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	3	7	12	13	12	9	6	4	4	3	3
115°	3	7	12	13	12	9	6	4	4	3	3
117.5°	2	6	11	12	12	9	6	5	4	3	3
120°	2	5	10	12	12	10	7	5	4	3	3
122.5°	2	5	9	11	12	10	7	5	4	3	3
125°	2	4	8	10	11	10	7	6	4	3	3
127.5°	2	3	7	9	10	10	8	6	4	3	3
130°	2	3	5	8	9	10	8	6	5	4	3
132.5°	1	2	4	6	8	10	8	7	5	4	3
135°	1	2	3	5	7	9	8	7	6	4	3
137.5°	1	2	3	3	5	8	8	7	6	5	4
140°	1	1	2	2	3	7	8	7	6	5	4
142.5°	1	1	2	2	2	5	7	7	6	6	5
145°	1	1	1	2	2	3	6	7	6	6	5
147.5°	1	1	1	1	2	2	4	5	6	6	5
150°	1	1	1	1	1	2	2	4	5	5	5
152.5°	1	1	1	1	1	1	2	2	3	4	4
155°	1	1	1	1	1	1	1	2	2	3	3
157.5°	1	1	1	1	1	1	1	1	1	1	2
160°	1	1	1	1	1	1	1	1	1	1	1
162.5°	1	1	1	1	1	1	1	1	1	1	1
165°	1	1	1	1	1	1	1	1	1	1	0
167.5°	1	1	1	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1	1	1	1
172.5°	1	1	1	1	1	1	1	1	1	1	0
175°	1	1	1	1	1	1	1	1	1	1	1
177.5°	1	1	1	1	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1



TEST NUMBER: P34241

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



TEST NUMBER: P34241

CATALOG NUMBER: 865-14-W-L2/835-UNV

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	3	3	3	3	2	2	1	1
115°	3	3	3	3	2	2	1	1
117.5°	3	3	3	3	2	2	1	2
120°	3	3	3	2	2	2	1	2
122.5°	3	3	3	2	2	2	1	2
125°	3	3	3	2	2	2	1	2
127.5°	3	3	2	2	2	1	1	2
130°	3	3	2	2	2	2	1	2
132.5°	3	2	2	2	2	2	1	2
135°	3	2	2	2	2	2	1	2
137.5°	3	2	2	2	2	1	1	1
140°	3	3	2	2	2	1	1	1
142.5°	4	3	3	2	2	1	1	2
145°	4	3	3	3	2	2	1	2
147.5°	4	4	3	3	2	2	2	2
150°	5	4	4	4	3	2	2	2
152.5°	4	4	4	4	3	3	3	3
155°	3	3	3	3	3	2	3	3
157.5°	2	2	2	2	2	1	1	1
160°	1	1	1	1	1	1	1	1
162.5°	1	1	1	1	1	0	0	0
165°	0	0	0	0	0	0	0	0
167.5°	1	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	1	1	1	1	1	1	1	1

(END OF REPORT)