

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: SURE-LITES

Report Number: P11870

Luminaire Tested: **CEL7035SD**

Issue Date: 03/03/2020



**Test Information**

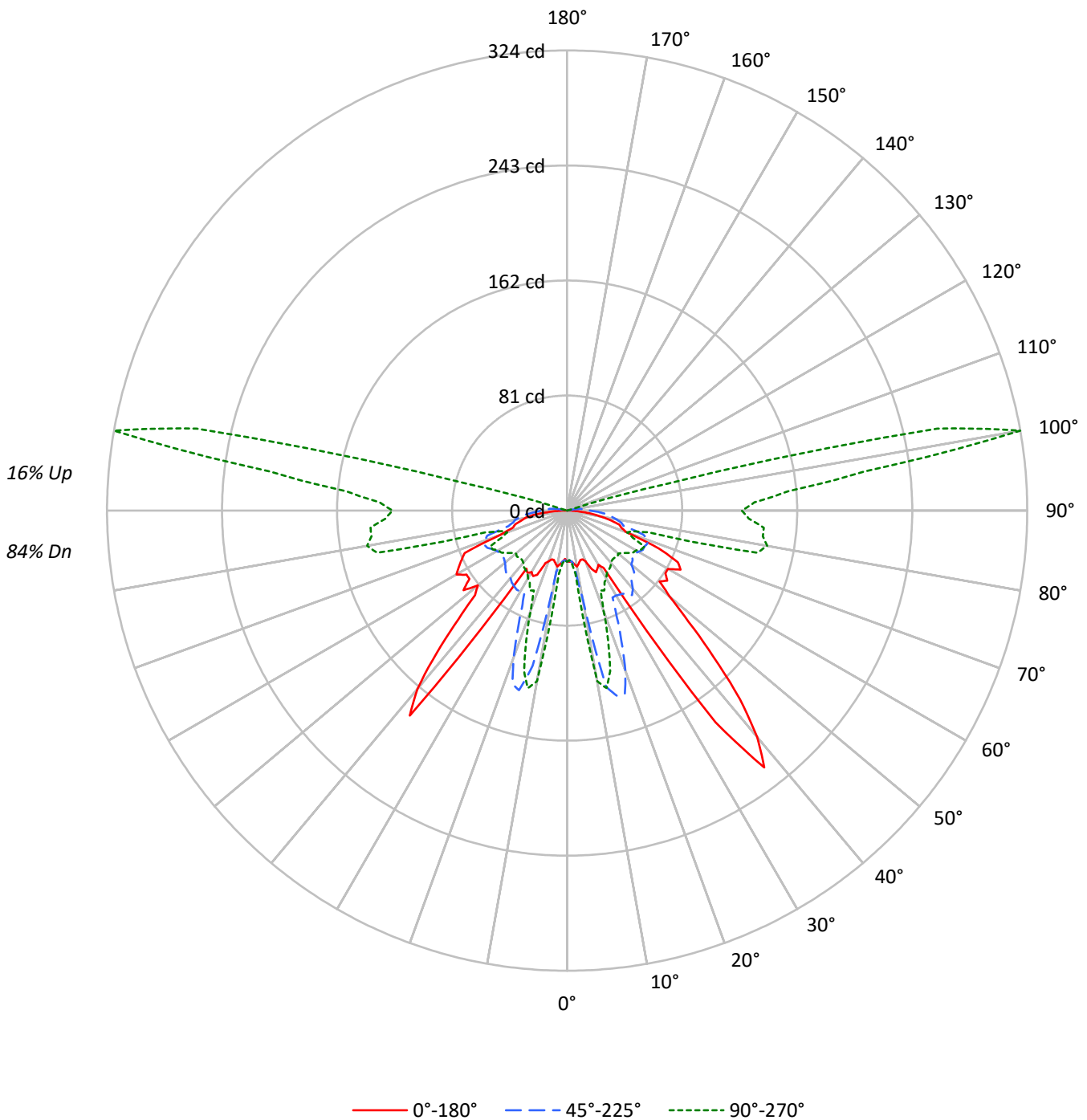
Test Method: LM-79-08  
Report Number: P11870  
Test Lab: PEACHTREE CITY  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SURE-LITES  
Catalog Number: CEL7035SD  
Description: INCANDESCENT EMERGENCY FIXTURE, MIRROR INSIDE THE  
DOOR, DOOR EDGE(PARTIALY OPEN) AT 5.25 INCH FROM FIXTURE  
Light Source: TWO BIPIN HALOGEN INCANDESCENT MR16 12 DEGREE SPOT LAMPS  
(2)75MR16/12 75 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1137 (2 lamps)  
Luminaire Lumens: 517.1 lumens  
Efficiency: 22.7%  
Efficacy: 6.9 lumens/watt  
Spacing Criteria (0/90/45): 2.71 / 1.89 / 2.18  
Luminous Opening: Rectangular (W 0.52' x L: 0.44' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 75  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P11870  
CATALOG NUMBER: CEL7035SD

### 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	26	26	26	26	25	25	25	25	23	23	23	21	21	21	20	20	20	19
1	23	21	20	18	22	20	19	18	18	17	16	17	16	15	15	15	14	13
2	20	18	16	14	19	17	15	13	15	14	13	14	13	12	13	12	11	10
3	18	15	13	11	17	14	12	11	13	12	10	12	11	9	11	10	9	8
4	16	13	11	9	16	13	10	9	12	10	8	11	9	8	10	8	7	7
5	15	12	9	8	14	11	9	7	10	8	7	9	8	6	9	7	6	5
6	14	10	8	6	13	10	8	6	9	7	6	8	7	6	8	6	5	5
7	13	9	7	6	12	9	7	5	8	6	5	8	6	5	7	6	5	4
8	12	8	6	5	11	8	6	5	7	6	4	7	5	4	6	5	4	3
9	11	8	6	4	10	7	5	4	7	5	4	6	5	4	6	4	4	3
10	10	7	5	4	10	7	5	4	6	5	4	6	4	3	5	4	3	3

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

	0°	90°	180°
0°	1701	1701	1701
5°	1707	1754	1707
10°	1919	5852	1919
15°	1761	5722	1761
20°	1910	3770	1910
25°	2502	3232	2606
30°	2400	3000	2727
35°	10495	2941	2883
40°	12826	2960	10113
45°	9754	3140	7215
50°	6908	3454	6026
55°	7083	4283	6918
60°	7747	5291	8503
65°	9613	6707	9166
70°	6077	6215	6906
75°	6936	10768	6936
80°	6529	38901	8161
85°	5420	75338	7588



TEST NUMBER: P11870  
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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	4.4	0.8	0.2	0°	36	36	36	36	36	
10°-20°	25.8	5.0	1.1	5°	36	36	37	36	36	4
20°-30°	37.3	7.2	1.6	15°	36	135	117	131	36	11
30°-40°	46.0	8.9	2.0	25°	48	83	62	75	50	21
40°-50°	55.8	10.8	2.5	35°	182	71	51	65	50	95
50°-60°	73.2	14.2	3.2	45°	146	66	47	61	108	114
60°-70°	69.3	13.4	3.0	55°	86	56	52	55	84	76
70°-80°	54.7	10.6	2.4	65°	86	60	60	62	82	76
80°-90°	67.4	13.0	3.0	75°	38	41	59	43	38	38
90°-100°	60.8	11.8	2.7	85°	10	27	139	28	14	11
100°-110°	22.5	4.3	1.0	90°	2	16	123	18	2	1
110°-120°	0.0	0.0	0.0	95°	0	12	156	13	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	71	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	67.5	13.0	3.0	165°	0	0	0	0	0	0
0°-40°	113.4	21.9	5.0	175°	0	0	0	0	0	0
0°-60°	242.5	46.9	10.7	180°	0	0	0	0	0	0
0°-90°	433.8	83.9	19.1							
90°-120°	83.3	16.1	3.7							
90°-150°	83.3	16.1	3.7							
90°-180°	83.0	16.1	3.6							
0°-180°	517.1	100.0	22.7							



TEST NUMBER: P11870  
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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	36	36	36	36	36	36	36	36	36	36	36
2.5°	36	36	36	36	36	35	35	35	35	35	35
5°	36	36	36	36	36	36	36	36	36	36	36
7.5°	38	38	38	38	38	39	39	39	39	39	39
10°	40	40	40	41	41	41	41	42	42	42	44
12.5°	38	39	39	40	40	41	41	42	42	43	52
15°	36	37	39	40	41	43	44	45	47	48	58
17.5°	36	42	48	53	59	65	71	76	82	88	93
20°	38	48	57	67	76	86	95	105	114	124	124
22.5°	44	54	64	74	84	95	105	115	125	135	131
25°	48	58	67	77	87	96	106	116	125	135	129
27.5°	46	55	63	72	80	89	97	106	114	123	117
30°	44	51	58	65	72	79	86	93	100	107	103
32.5°	48	53	57	62	66	71	75	80	84	89	87
35°	182	170	158	146	134	123	111	99	87	75	75
37.5°	228	209	191	172	153	135	116	97	79	60	62
40°	208	192	176	159	143	127	111	94	78	62	63
42.5°	180	167	154	140	127	114	101	87	74	61	62
45°	146	137	129	120	111	103	94	85	77	68	68
47.5°	116	119	122	124	127	130	133	135	138	141	132
50°	94	101	108	114	121	128	135	141	148	155	144
52.5°	82	91	100	108	117	126	135	143	152	161	150
55°	86	94	102	110	118	127	135	143	151	159	148
57.5°	82	90	98	106	114	121	129	137	145	153	142
60°	82	89	95	102	108	115	121	128	134	141	132
62.5°	90	94	98	101	105	109	113	116	120	124	117
65°	86	88	90	92	94	97	99	101	103	105	100
67.5°	70	71	73	74	76	77	79	80	82	83	81
70°	44	45	47	48	50	51	53	54	56	57	57
72.5°	40	39	39	38	38	37	36	36	35	35	37
75°	38	37	36	35	34	32	31	30	29	28	29
77.5°	31	30	30	29	29	28	28	27	27	27	28
80°	24	24	23	23	23	22	22	22	21	21	23
82.5°	17	17	17	17	17	17	17	17	17	17	18
85°	10	10	11	11	11	12	12	12	13	13	15
87.5°	5	5	6	6	7	7	7	8	8	9	10
90°	2	2	2	3	3	3	3	4	4	4	5
92.5°	0	0	1	1	2	2	2	3	3	4	5
95°	0	0	1	1	2	2	3	3	4	4	5
97.5°	0	0	1	1	1	1	2	2	2	3	3
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11870  
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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	36	36	36	36	36	36	36	36	36	36	36
2.5°	35	35	35	35	35	35	35	35	35	35	35
5°	36	36	36	36	36	36	36	36	36	36	36
7.5°	39	39	39	39	39	39	39	39	39	39	40
10°	47	49	51	54	56	58	61	63	70	76	83
12.5°	62	71	80	90	99	108	118	127	128	128	129
15°	67	77	87	96	106	116	125	135	134	134	133
17.5°	98	104	109	114	119	125	130	135	132	129	127
20°	123	123	122	122	121	121	120	120	117	114	110
22.5°	127	123	119	116	112	108	104	100	97	94	91
25°	123	118	112	106	100	95	89	83	81	79	78
27.5°	111	105	99	93	87	81	75	69	69	70	70
30°	99	94	90	86	82	77	73	69	69	69	69
32.5°	85	83	81	78	76	74	72	70	71	71	72
35°	74	74	73	73	72	72	71	71	71	71	71
37.5°	63	65	67	68	70	72	73	75	74	73	72
40°	64	65	66	68	69	70	71	72	71	69	68
42.5°	62	63	64	64	65	66	66	67	66	65	64
45°	68	67	67	67	67	66	66	66	65	63	62
47.5°	124	115	107	98	90	81	73	64	63	62	60
50°	134	123	112	102	91	80	70	59	58	57	57
52.5°	138	127	115	104	92	81	69	58	57	57	56
55°	136	125	113	102	90	79	67	56	56	56	55
57.5°	131	121	110	99	88	78	67	56	56	56	56
60°	123	113	104	95	86	76	67	58	58	58	59
62.5°	110	103	96	88	81	74	67	60	60	60	60
65°	95	90	85	80	75	70	65	60	60	60	61
67.5°	78	76	73	71	68	66	63	61	61	60	60
70°	58	58	59	59	60	60	61	61	59	57	55
72.5°	39	42	44	46	49	51	53	56	54	52	50
75°	31	32	34	35	37	38	40	41	41	41	41
77.5°	29	31	32	33	35	36	37	39	42	46	50
80°	24	26	27	29	30	32	33	35	48	61	74
82.5°	20	21	23	24	26	27	29	31	44	57	70
85°	16	18	19	21	22	24	25	27	40	52	65
87.5°	11	13	14	16	17	19	20	22	34	47	60
90°	7	8	9	11	12	13	15	16	31	46	61
92.5°	6	7	8	10	11	12	13	15	27	40	52
95°	6	7	8	8	9	10	11	12	25	38	51
97.5°	4	5	5	6	7	8	8	9	22	34	47
100°	1	1	2	2	3	3	4	4	15	27	38
102.5°	0	0	0	1	1	1	1	1	3	5	8
105°	0	0	0	0	0	0	0	0	0	1	1
107.5°	0	0	0	0	0	0	0	0	0	0	1
110°	0	0	0	0	0	0	0	0	0	0	0





TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	36	36	36	36	36	36	36	36	36	36	36
2.5°	35	35	35	35	35	35	35	35	35	35	35
5°	36	37	37	37	37	37	37	37	37	37	37
7.5°	40	40	40	41	41	41	42	42	43	44	44
10°	89	96	102	109	115	122	123	122	122	122	122
12.5°	129	130	130	131	131	132	131	130	129	129	128
15°	132	132	131	130	130	129	126	124	122	121	119
17.5°	124	121	118	116	113	110	107	104	102	101	100
20°	107	104	101	97	94	91	87	84	82	80	79
22.5°	88	84	81	78	75	72	70	69	66	65	63
25°	76	74	72	71	69	67	67	66	65	65	65
27.5°	71	71	72	72	73	73	69	65	65	64	64
30°	69	70	70	70	70	70	67	64	62	62	61
32.5°	73	73	74	75	75	76	70	65	61	60	57
35°	71	72	72	72	72	72	70	63	60	56	56
37.5°	71	71	70	69	68	67	69	62	59	56	55
40°	67	65	64	63	61	60	63	61	57	52	53
42.5°	63	61	60	59	58	57	58	59	56	52	51
45°	61	59	58	57	55	54	55	56	55	52	50
47.5°	59	58	57	55	54	53	53	54	54	51	49
50°	56	55	54	54	53	52	52	52	52	51	49
52.5°	55	55	54	53	53	52	52	52	52	52	50
55°	55	55	55	54	54	54	55	54	54	53	52
57.5°	56	57	57	57	57	57	57	56	57	55	54
60°	59	59	59	60	60	60	59	58	56	56	56
62.5°	60	61	61	61	61	61	60	60	59	58	58
65°	61	61	61	62	62	62	62	60	58	58	57
67.5°	59	59	58	58	57	57	55	53	51	51	51
70°	53	52	50	48	46	44	42	42	42	44	44
72.5°	49	47	45	44	42	41	40	42	44	44	46
75°	41	42	42	42	42	42	42	46	52	53	56
77.5°	53	57	61	64	68	72	98	115	126	130	135
80°	87	99	112	125	138	151	152	146	152	150	149
82.5°	83	96	109	122	135	148	147	175	174	148	144
85°	77	90	102	115	127	140	136	142	140	145	145
87.5°	73	86	99	112	125	138	133	140	137	140	145
90°	76	91	106	121	136	151	141	138	138	133	133
92.5°	65	78	90	103	115	128	128	137	135	134	136
95°	64	76	89	102	115	128	125	131	136	143	151
97.5°	59	72	84	97	109	122	127	140	153	169	191
100°	50	61	73	84	96	107	131	155	181	216	270
102.5°	10	12	14	16	18	21	35	83	102	142	210
105°	1	2	2	2	3	3	5	9	12	23	54
107.5°	1	1	1	1	1	2	1	1	1	1	2
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	36	36	36	36	36	36	36	36	36	36	36
2.5°	35	35	35	35	35	35	35	35	35	35	35
5°	37	37	37	37	37	37	37	37	37	36	36
7.5°	45	45	45	45	44	45	43	42	41	41	40
10°	123	122	122	122	121	121	121	121	119	118	118
12.5°	129	128	128	128	128	127	127	127	126	126	126
15°	118	118	117	117	116	116	117	116	117	117	118
17.5°	99	97	97	96	96	96	96	96	96	97	98
20°	78	76	76	75	75	75	75	76	77	78	79
22.5°	61	61	60	61	60	60	62	61	61	62	63
25°	65	63	63	62	63	63	63	63	62	63	64
27.5°	62	60	58	57	57	58	58	57	57	59	63
30°	61	58	57	55	56	57	57	56	56	58	60
32.5°	57	55	54	52	53	54	53	52	52	54	55
35°	56	54	53	51	51	51	50	49	49	50	52
37.5°	55	54	53	50	49	49	49	48	48	50	51
40°	53	53	52	48	47	47	46	47	48	49	51
42.5°	51	51	50	47	47	47	47	47	48	48	51
45°	49	48	48	47	48	47	47	46	46	48	52
47.5°	47	45	46	48	47	47	47	46	45	48	50
50°	47	46	46	47	47	47	48	47	46	48	49
52.5°	49	48	49	49	49	49	50	49	48	49	49
55°	52	52	52	52	51	51	52	52	51	53	53
57.5°	56	56	56	55	54	54	55	55	55	54	55
60°	57	57	57	56	56	56	56	56	56	56	56
62.5°	59	59	59	59	58	58	58	58	58	58	56
65°	59	60	60	60	60	59	59	59	58	57	56
67.5°	51	51	51	50	50	50	49	49	49	50	51
70°	45	45	46	45	44	43	42	41	40	39	38
72.5°	46	48	48	48	47	46	44	42	41	40	39
75°	57	59	60	59	59	55	52	48	47	45	42
77.5°	136	138	139	137	133	130	123	116	112	105	100
80°	145	143	144	143	138	135	132	128	128	126	129
82.5°	147	145	143	139	134	132	130	132	127	131	150
85°	144	134	136	139	129	130	124	130	120	125	121
87.5°	146	131	129	128	126	125	116	114	123	128	122
90°	134	135	130	123	122	121	121	120	120	122	124
92.5°	141	140	136	132	127	125	120	115	112	116	115
95°	162	161	160	156	148	143	129	118	114	114	118
97.5°	214	224	225	211	198	185	165	141	128	121	113
100°	326	358	352	324	284	253	225	187	159	132	116
102.5°	281	312	303	267	222	193	167	137	110	84	60
105°	76	72	72	71	62	48	30	18	13	11	10
107.5°	3	3	2	2	3	3	2	2	2	2	2
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	36	36	36	36	36	36	36	36	36	36	36
2.5°	35	35	35	35	35	35	35	35	35	35	35
5°	36	36	36	36	36	36	36	36	36	36	36
7.5°	40	39	39	39	39	39	38	38	38	38	38
10°	117	114	106	98	91	83	75	67	60	52	44
12.5°	126	126	124	123	121	120	118	117	115	114	112
15°	119	121	122	123	124	125	127	128	129	130	131
17.5°	99	101	104	107	110	113	116	119	122	125	128
20°	82	84	87	90	93	96	98	101	104	107	110
22.5°	66	67	70	72	75	78	80	83	86	88	91
25°	65	66	67	68	69	70	71	72	73	74	75
27.5°	66	67	67	67	66	66	66	66	65	65	65
30°	62	61	62	62	63	63	64	64	65	65	66
32.5°	56	57	58	59	60	61	62	63	64	65	66
35°	53	53	54	56	57	58	60	61	62	64	65
37.5°	52	54	55	56	57	58	60	61	62	63	64
40°	52	51	52	53	55	56	57	58	60	61	62
42.5°	52	50	51	53	54	56	57	59	60	62	63
45°	51	49	50	52	53	54	56	57	58	60	61
47.5°	51	50	51	52	53	54	55	56	57	58	59
50°	50	50	51	52	52	53	54	55	55	56	57
52.5°	49	50	51	51	52	53	53	54	55	55	56
55°	52	52	52	53	53	53	54	54	54	55	55
57.5°	53	53	53	54	54	54	55	55	55	56	56
60°	56	56	56	56	56	56	57	57	57	57	57
62.5°	57	58	58	58	58	58	59	59	59	59	59
65°	57	58	58	59	59	60	60	61	61	62	62
67.5°	53	56	57	58	58	59	60	61	61	62	63
70°	39	42	44	46	49	51	53	55	58	60	62
72.5°	37	37	39	42	44	47	49	52	54	57	59
75°	39	38	39	39	40	40	41	41	42	42	43
77.5°	93	84	79	74	69	64	59	54	49	44	39
80°	121	124	114	105	95	85	76	66	56	47	37
82.5°	124	124	114	104	94	84	73	63	53	43	33
85°	121	116	106	96	87	77	67	57	48	38	28
87.5°	122	112	102	92	82	72	62	52	42	32	22
90°	116	116	105	94	83	72	62	51	40	29	18
92.5°	118	116	105	94	82	71	60	49	37	26	15
95°	123	116	105	93	82	70	59	47	36	24	13
97.5°	114	101	90	80	70	60	50	40	30	20	10
100°	97	86	77	68	59	50	41	32	23	14	5
102.5°	27	17	15	13	11	10	8	6	5	3	2
105°	9	5	4	4	3	3	2	2	1	1	0
107.5°	2	3	2	2	2	1	1	1	1	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	36	36	36	36	36	36	36	36	36	36	36
2.5°	35	35	35	35	35	35	35	35	35	35	35
5°	36	36	36	36	36	36	36	36	36	36	36
7.5°	38	38	38	38	39	39	39	39	39	39	39
10°	44	43	43	43	42	42	42	41	41	41	41
12.5°	104	96	88	80	71	63	55	47	39	39	39
15°	121	111	100	90	80	70	59	49	39	39	38
17.5°	119	109	100	90	81	71	62	52	43	42	41
20°	108	107	105	104	102	101	99	98	96	90	83
22.5°	95	99	102	106	110	114	117	121	125	116	106
25°	80	85	90	95	101	106	111	116	121	113	105
27.5°	70	74	79	83	88	92	97	101	106	100	94
30°	69	72	75	78	80	83	86	89	92	87	83
32.5°	68	69	71	72	74	75	77	78	80	77	74
35°	66	66	67	68	68	69	70	70	71	69	66
37.5°	65	65	66	67	67	68	69	69	70	82	95
40°	62	63	63	63	64	64	64	65	65	76	87
42.5°	63	63	62	62	62	62	61	61	61	69	78
45°	61	61	61	61	61	61	61	61	61	66	71
47.5°	60	61	62	63	64	65	66	67	68	70	72
50°	65	73	81	89	98	106	114	122	130	125	119
52.5°	66	76	86	96	107	117	127	137	147	141	135
55°	65	76	86	96	107	117	127	138	148	141	134
57.5°	65	75	84	93	103	112	121	131	140	134	128
60°	65	72	80	88	95	103	111	118	126	122	118
62.5°	65	70	76	81	87	92	98	103	109	106	104
65°	65	68	71	74	77	80	83	86	89	88	87
67.5°	64	66	67	69	70	72	73	75	76	76	76
70°	62	62	62	62	62	62	62	62	62	61	59
72.5°	57	56	54	52	50	49	47	45	44	43	43
75°	42	40	39	38	36	35	34	32	31	32	33
77.5°	38	37	36	35	34	33	32	31	31	31	31
80°	36	35	34	33	31	30	29	28	27	27	28
82.5°	31	30	28	27	25	24	22	21	19	20	20
85°	26	25	23	22	20	19	17	16	14	14	14
87.5°	21	19	18	16	15	13	12	10	9	9	9
90°	17	15	14	12	11	9	8	6	5	5	4
92.5°	14	12	11	10	8	7	6	4	3	3	2
95°	12	11	10	9	7	6	5	4	3	3	2
97.5°	9	8	7	6	6	5	4	3	3	2	2
100°	4	4	3	3	2	2	1	1	0	0	0
102.5°	1	1	1	1	1	1	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0





TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P11870  
 CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°
0°	36	36	36	36	36	36	36
2.5°	35	35	34	34	34	34	34
5°	36	36	36	36	36	36	36
7.5°	39	39	38	38	38	38	38
10°	41	41	40	40	40	40	40
12.5°	39	39	38	38	38	38	38
15°	38	38	37	37	37	36	36
17.5°	41	40	39	38	38	37	36
20°	77	70	64	57	51	44	38
22.5°	97	87	78	68	59	49	40
25°	97	89	82	74	66	58	50
27.5°	88	82	76	70	64	58	52
30°	78	73	69	64	59	55	50
32.5°	71	68	64	61	58	55	52
35°	64	62	59	57	55	52	50
37.5°	107	120	132	145	157	170	182
40°	98	109	120	131	142	153	164
42.5°	86	94	103	111	119	128	136
45°	77	82	87	92	98	103	108
47.5°	75	77	79	81	84	86	88
50°	114	109	103	98	93	87	82
52.5°	129	123	116	110	104	98	92
55°	127	120	112	105	98	91	84
57.5°	121	115	109	103	96	90	84
60°	114	110	106	102	98	94	90
62.5°	101	99	96	94	91	89	86
65°	87	86	85	84	84	83	82
67.5°	77	77	77	77	78	78	78
70°	58	57	55	54	53	51	50
72.5°	42	42	42	41	41	40	40
75°	33	34	35	36	36	37	38
77.5°	31	32	32	32	32	33	33
80°	28	28	29	29	29	30	30
82.5°	21	21	22	22	23	23	24
85°	14	14	14	14	14	14	14
87.5°	8	8	8	8	7	7	7
90°	4	4	3	3	3	2	2
92.5°	2	2	1	1	1	0	0
95°	2	2	1	1	1	0	0
97.5°	2	1	1	1	1	0	0
100°	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0



TEST NUMBER: P11870  
CATALOG NUMBER: CEL7035SD

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)