

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: P11871

Luminaire Tested: **CEL7035SD**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P11871
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,
WITH MIRROR INSIDE THE DOOR, DOOR EDGE (FULLY OPEN) AT 7-9/16 INCHES FROM
Light Source: TWO BIPIN HALOGEN INCANDESCENT MR16 12 DEGREE SPOT LAMPS
(2)75MR16/12° 75 WATTS
Ballast/Driver: -

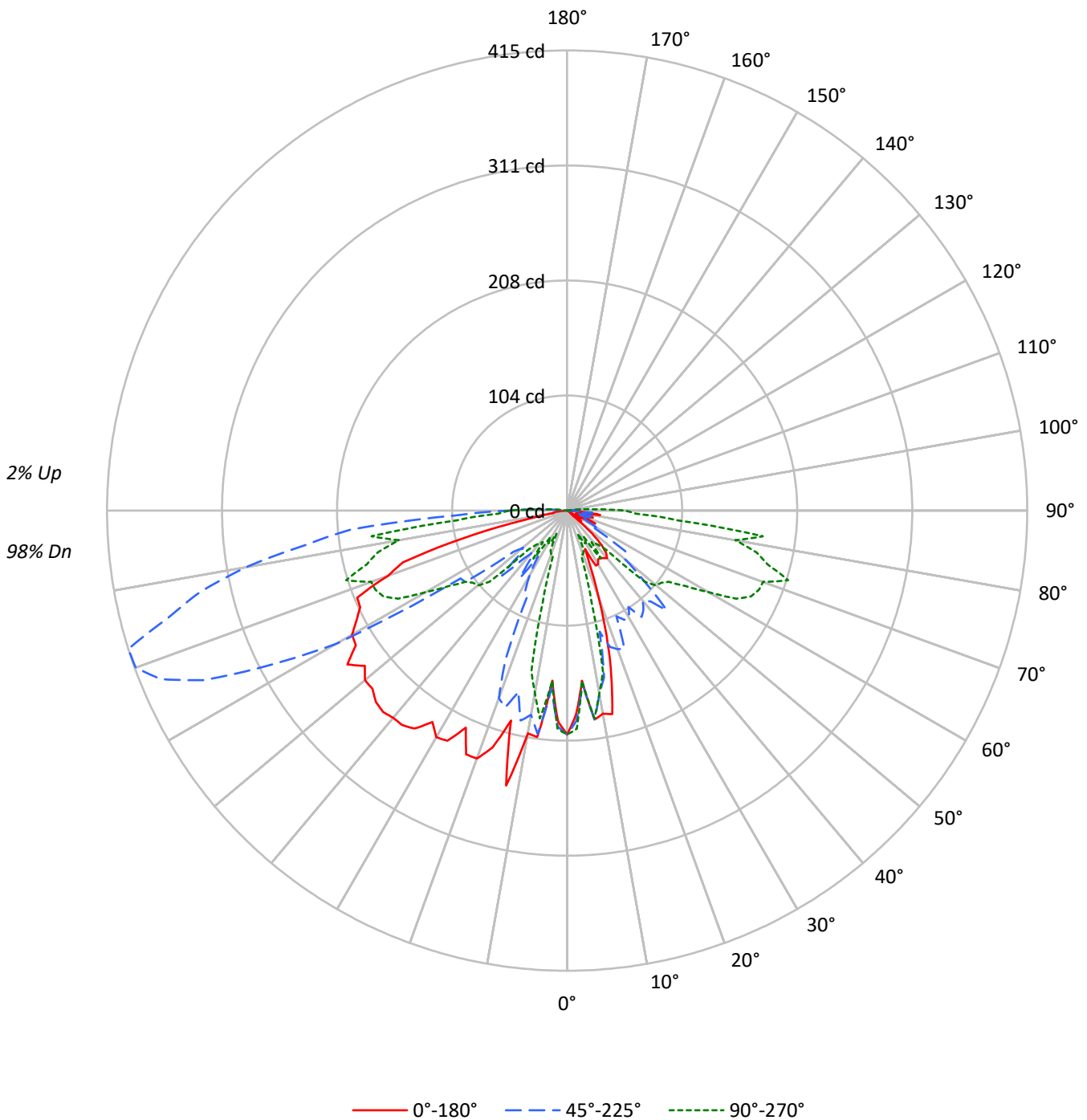
Summary

Lumens per Lamp: 1137 (2 lamps)
Luminaire Lumens: 1389.3 lumens
Efficiency: 61.1%
Efficacy: 18.5 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.5 / 0.85
Luminous Opening: Rectangular (W 0.52' x L: 0.44' x H: 0')
CIE Type: Direct

Input Watts (W): 75.1
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

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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	73	73	73	73	71	71	71	71	67	67	67	64	64	64	61	61	61	60
1	59	54	48	44	57	52	47	43	49	45	41	46	43	40	44	41	38	36
2	50	42	35	28	48	40	34	28	38	32	27	35	30	26	33	29	25	23
3	44	34	26	20	42	33	25	20	30	24	19	28	23	18	26	22	18	16
4	39	29	21	15	37	28	20	15	26	19	14	24	18	14	22	17	13	12
5	36	25	17	12	34	24	17	12	22	16	11	21	15	11	19	15	11	9
6	33	22	15	10	31	21	15	10	20	14	9	19	13	9	17	13	9	7
7	30	20	13	8	29	19	13	8	18	12	8	17	12	8	16	11	8	6
8	28	18	12	7	27	17	11	7	16	11	7	16	10	7	15	10	7	5
9	26	16	10	6	25	16	10	6	15	10	6	14	10	6	14	9	6	5
10	25	15	10	6	24	15	9	6	14	9	6	13	9	6	13	8	5	4

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9542	9542	9542
5°	7302	7302	7302
10°	8922	8010	9785
15°	7531	4157	9585
20°	4122	2111	11964
25°	1981	1199	11258
30°	3055	1855	12873
35°	2999	3056	13840
40°	3453	2343	15046
45°	2939	3340	16300
50°	294	7716	17491
55°	988	9224	19930
60°	1323	13888	21163
65°	3130	20455	23026
70°	1105	25966	23756
75°	4380	34130	18251
80°	2720	41893	3264
85°	8672	54200	2168



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	17.4	1.3	0.8	0°	202	202	202	202	202	
10°-20°	40.6	2.9	1.8	5°	154	156	154	160	154	17
20°-30°	45.0	3.2	2.0	15°	154	113	85	169	196	40
30°-40°	53.1	3.8	2.3	25°	38	105	23	84	216	25
40°-50°	67.6	4.9	3.0	35°	52	117	53	74	240	34
50°-60°	121.5	8.7	5.3	45°	44	127	50	83	244	30
60°-70°	324.2	23.3	14.3	55°	12	64	112	112	242	9
70°-80°	496.2	35.7	21.8	65°	28	17	183	362	206	18
80°-90°	202.3	14.6	8.9	75°	24	10	187	372	100	14
90°-100°	21.3	1.5	0.9	85°	16	23	100	196	4	14
100°-110°	0.0	0.0	0.0	90°	0	0	52	52	0	0
110°-120°	0.0	0.0	0.0	95°	0	12	11	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	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°	103.0	7.4	4.5	165°	0	0	0	0	0	0
0°-40°	156.1	11.2	6.9	175°	0	0	0	0	0	0
0°-60°	345.2	24.8	15.2	180°	0	0	0	0	0	0
0°-90°	1367.9	98.5	60.2							
90°-120°	21.3	1.5	0.9							
90°-150°	21.3	1.5	0.9							
90°-180°	21.0	1.5	0.9							
0°-180°	1389.3	100.0	61.1							



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	202	202	202	202	202	202	202	202	202	202	202
2.5°	184	185	186	186	187	188	189	189	190	191	191
5°	154	154	153	153	153	152	152	152	151	151	152
7.5°	190	190	190	190	190	190	190	190	190	190	190
10°	186	185	184	183	182	181	180	179	178	177	176
12.5°	188	186	185	183	182	180	179	177	176	174	172
15°	154	152	151	149	147	146	144	142	141	139	136
17.5°	118	121	123	126	128	131	133	136	138	141	140
20°	82	86	90	95	99	103	107	112	116	120	121
22.5°	54	63	72	81	90	100	109	118	127	136	136
25°	38	43	48	53	58	63	68	73	78	83	85
27.5°	56	59	62	66	69	72	75	79	82	85	88
30°	56	58	59	61	63	64	66	68	69	71	76
32.5°	52	54	57	59	61	64	66	68	71	73	76
35°	52	52	52	52	52	53	53	53	53	53	60
37.5°	54	54	54	53	53	53	53	52	52	52	59
40°	56	55	54	54	53	52	51	51	50	49	55
42.5°	52	52	52	52	52	53	53	53	53	53	59
45°	44	45	46	46	47	48	49	49	50	51	59
47.5°	30	33	36	39	42	46	49	52	55	58	62
50°	4	5	6	7	8	8	9	10	11	12	18
52.5°	16	16	16	15	15	15	15	14	14	14	20
55°	12	12	12	12	12	11	11	11	11	11	17
57.5°	2	3	3	4	4	5	5	6	6	7	9
60°	14	14	14	14	14	15	15	15	15	15	17
62.5°	12	12	12	13	13	13	13	13	13	14	14
65°	28	26	25	23	21	20	18	16	15	13	13
67.5°	20	20	19	19	19	18	18	18	17	17	17
70°	8	8	8	7	7	7	7	6	6	6	7
72.5°	11	12	12	13	14	15	15	16	17	18	18
75°	24	22	21	19	18	16	15	13	12	10	10
77.5°	9	9	10	10	10	11	11	11	12	12	13
80°	10	11	12	12	13	14	15	15	16	17	17
82.5°	30	28	25	23	21	18	16	14	11	9	10
85°	16	15	14	13	12	10	9	8	7	6	8
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0	1
95°	0	0	1	1	1	2	2	2	3	3	4
97.5°	0	0	0	0	0	0	0	0	0	0	0
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: P11871
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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°	202	202	202	202	202	202	202	202	202	202	202
2.5°	191	191	191	190	190	190	190	190	190	189	189
5°	152	153	153	154	154	155	155	156	156	156	156
7.5°	190	190	190	190	190	190	190	190	189	189	188
10°	175	174	173	171	170	169	168	167	165	163	161
12.5°	170	167	165	163	161	158	156	154	152	149	147
15°	133	130	127	125	122	119	116	113	109	106	102
17.5°	138	137	136	134	133	132	130	129	128	127	126
20°	123	124	126	127	129	130	132	133	114	96	77
22.5°	136	136	136	135	135	135	135	135	114	94	73
25°	88	90	93	95	98	100	103	105	92	79	65
27.5°	91	94	97	99	102	105	108	111	106	102	97
30°	80	85	89	94	98	103	107	112	108	104	100
32.5°	80	83	86	90	93	96	100	103	100	98	95
35°	67	74	81	89	96	103	110	117	113	109	105
37.5°	66	72	79	86	93	99	106	113	114	114	115
40°	62	68	74	81	87	93	100	106	107	108	108
42.5°	66	72	79	85	92	98	105	111	112	113	114
45°	68	76	85	93	102	110	119	127	123	119	114
47.5°	66	70	74	78	82	86	90	94	99	103	108
50°	24	31	37	43	49	56	62	68	76	84	91
52.5°	26	32	38	43	49	55	61	67	80	92	105
55°	23	29	35	40	46	52	58	64	74	85	95
57.5°	11	13	15	18	20	22	24	26	42	58	73
60°	18	20	22	23	25	27	28	30	43	56	69
62.5°	15	16	16	17	18	18	19	20	29	39	48
65°	14	14	15	15	16	16	17	17	22	26	31
67.5°	17	17	17	16	16	16	16	16	17	18	18
70°	7	8	8	9	9	10	10	11	14	17	19
72.5°	18	19	19	19	20	20	20	21	20	20	19
75°	10	10	10	10	10	10	10	10	14	18	22
77.5°	14	16	17	18	19	20	21	23	21	20	19
80°	17	16	16	16	16	15	15	15	17	19	20
82.5°	10	11	11	12	12	13	13	14	16	18	19
85°	10	12	14	15	17	19	21	23	22	20	19
87.5°	0	1	1	1	1	2	2	2	2	2	2
90°	0	0	0	0	0	0	0	0	1	2	2
92.5°	1	2	2	3	3	4	4	5	4	3	1
95°	5	6	7	8	9	10	11	12	9	7	4
97.5°	0	0	0	0	0	0	0	0	0	0	0
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



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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: P11871
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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	202	202	202	202	202	202	202	202	202	202	202
2.5°	188	196	195	195	197	196	197	198	194	195	195
5°	156	156	158	156	155	156	157	165	170	167	165
7.5°	187	192	192	198	197	193	191	191	192	191	191
10°	159	172	164	165	183	166	160	172	163	164	164
12.5°	144	150	147	154	139	146	142	142	137	139	141
15°	98	101	104	110	93	88	95	84	78	79	80
17.5°	125	93	76	53	42	37	34	36	36	37	38
20°	58	51	45	47	42	41	38	37	41	41	41
22.5°	52	61	63	46	33	49	36	32	32	33	34
25°	52	36	28	23	23	22	22	26	23	23	23
27.5°	92	58	40	37	36	28	42	30	34	34	34
30°	96	72	42	35	30	32	31	35	31	32	32
32.5°	92	79	39	31	23	25	24	25	27	27	27
35°	101	101	61	54	52	36	26	42	27	31	36
37.5°	115	103	86	47	37	38	35	34	35	35	35
40°	109	103	89	47	39	35	33	39	43	42	41
42.5°	115	109	101	66	48	39	36	39	36	37	38
45°	110	118	146	78	43	47	34	36	36	38	41
47.5°	112	115	110	89	44	39	44	40	53	60	67
50°	99	103	100	86	58	32	37	36	40	51	62
52.5°	117	118	113	107	57	38	44	41	67	74	80
55°	105	116	109	103	60	57	44	46	50	60	71
57.5°	89	95	59	39	32	35	36	40	54	66	78
60°	82	82	45	41	42	45	53	51	75	87	99
62.5°	58	61	32	42	46	42	45	56	79	95	110
65°	35	29	23	32	41	45	45	51	92	107	122
67.5°	19	27	34	25	35	46	48	56	102	116	130
70°	22	30	18	16	20	28	31	42	77	96	114
72.5°	19	23	22	26	24	26	28	46	97	115	134
75°	26	16	16	18	27	27	23	39	80	98	116
77.5°	18	20	35	22	27	24	37	46	93	106	120
80°	22	27	27	34	19	25	31	61	78	91	103
82.5°	21	15	17	20	24	24	32	56	84	100	115
85°	17	28	21	24	26	31	43	56	90	92	93
87.5°	2	8	8	9	7	10	16	28	34	39	43
90°	3	13	8	13	5	6	8	22	46	47	48
92.5°	0	2	0	4	3	4	8	17	8	11	14
95°	1	11	6	4	30	12	22	6	14	13	13
97.5°	0	0	0	0	0	0	0	0	0	0	0
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: P11871
 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: P11871
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	202	202	202	202	202	202	202	202	202	202	202
2.5°	196	196	196	197	196	194	193	192	190	189	194
5°	162	159	157	154	155	155	156	156	156	157	158
7.5°	191	190	190	189	189	190	190	190	191	191	184
10°	165	166	166	167	168	169	171	172	173	174	184
12.5°	143	145	147	149	150	151	152	153	154	155	160
15°	82	83	84	85	89	93	97	101	105	109	113
17.5°	39	40	41	42	45	49	52	55	59	62	68
20°	42	42	42	42	43	44	45	45	46	47	51
22.5°	36	37	38	39	40	40	41	41	41	42	41
25°	23	23	23	23	24	25	26	26	27	28	28
27.5°	34	33	33	33	34	34	35	36	36	37	37
30°	33	33	33	34	35	36	37	38	39	40	46
32.5°	28	28	28	28	30	32	34	35	37	39	47
35°	40	44	49	53	51	49	47	44	42	40	39
37.5°	36	36	36	36	38	39	41	42	43	45	43
40°	41	40	39	38	42	45	49	52	55	59	53
42.5°	39	40	41	42	43	45	46	47	49	50	54
45°	43	45	48	50	50	51	51	51	52	52	64
47.5°	74	81	88	95	93	91	90	88	86	84	93
50°	73	83	94	105	113	122	130	138	147	155	170
52.5°	87	94	100	107	125	143	161	178	196	214	238
55°	81	91	102	112	139	166	194	221	248	275	317
57.5°	91	103	115	127	170	213	256	298	341	384	432
60°	111	123	135	147	211	275	340	404	468	532	628
62.5°	126	141	156	172	267	362	457	552	647	743	900
65°	138	153	168	183	315	447	580	712	844	976	1231
67.5°	144	159	173	187	360	533	705	878	1051	1224	1600
70°	133	151	169	188	393	598	804	1009	1214	1419	1936
72.5°	153	171	190	209	436	664	892	1120	1347	1575	2173
75°	134	151	169	187	414	640	867	1094	1320	1547	2172
77.5°	134	147	161	175	381	587	794	1000	1206	1413	1920
80°	116	129	141	154	324	494	664	833	1003	1173	1547
82.5°	131	147	162	178	299	420	542	663	784	905	1147
85°	95	97	98	100	199	298	397	495	594	693	804
87.5°	48	53	57	62	129	196	264	331	398	465	556
90°	49	50	51	52	91	131	170	209	249	288	359
92.5°	17	20	23	26	42	57	73	89	104	120	155
95°	13	12	12	11	15	19	23	26	30	34	37
97.5°	0	0	0	0	0	0	0	0	0	0	0
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: P11871
 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: P11871
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	202	202	202	202	202	202	202	202	202	202	202
2.5°	195	193	197	196	194	193	189	191	192	194	195
5°	161	166	161	162	163	162	171	168	166	163	160
7.5°	190	200	196	191	194	197	193	196	198	201	203
10°	176	178	181	180	184	208	200	197	194	190	187
12.5°	173	167	171	174	178	181	181	184	188	191	194
15°	120	128	131	138	141	150	152	156	161	165	169
17.5°	73	92	96	118	129	147	154	162	170	178	186
20°	61	61	74	77	81	92	100	120	140	160	180
22.5°	41	45	49	67	63	80	89	103	117	131	145
25°	27	27	28	34	38	46	46	56	65	75	84
27.5°	39	41	41	42	37	44	45	54	64	73	82
30°	43	45	41	42	44	45	41	48	55	61	68
32.5°	38	36	37	39	40	54	39	42	44	47	49
35°	43	48	42	53	44	51	44	52	59	67	74
37.5°	44	49	55	50	52	54	51	51	51	50	50
40°	45	53	49	55	53	54	54	53	52	51	50
42.5°	50	55	57	56	58	58	58	59	59	60	60
45°	55	67	62	75	69	75	51	59	67	75	83
47.5°	109	91	86	85	79	76	66	64	61	59	56
50°	181	184	175	162	142	116	85	77	69	60	52
52.5°	262	275	286	285	268	252	199	165	130	96	61
55°	345	373	385	384	375	367	324	271	218	165	112
57.5°	487	540	548	548	529	480	422	345	268	191	114
60°	721	800	832	818	755	677	582	497	411	326	240
62.5°	1043	1164	1214	1191	1086	945	795	671	548	424	301
65°	1451	1657	1723	1644	1475	1259	1010	848	686	524	362
67.5°	1995	2313	2457	2303	1958	1573	1228	1020	812	604	397
70°	2522	3119	3389	3125	2497	1876	1367	1129	891	652	414
72.5°	3020	3874	4215	3828	2971	2111	1461	1199	938	676	415
75°	3041	3958	4335	3867	2970	2089	1427	1163	900	636	372
77.5°	2525	3215	3458	3125	2433	1806	1270	1037	805	572	339
80°	1896	2236	2363	2175	1831	1391	993	818	644	469	294
82.5°	1380	1532	1564	1463	1252	970	738	613	488	363	238
85°	917	1009	1026	941	810	681	584	487	390	293	196
87.5°	618	645	629	581	525	479	397	323	249	175	101
90°	415	442	451	408	354	306	232	187	142	97	52
92.5°	201	217	221	210	187	141	97	79	60	42	23
95°	40	34	22	11	6	7	5	4	3	1	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
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: P11871
 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: P11871
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	202	202	202	202	202	202	202	202	202	202	202
2.5°	194	194	193	193	192	192	191	191	190	190	190
5°	159	159	158	158	157	157	156	156	155	155	155
7.5°	204	205	206	207	207	208	209	210	211	210	210
10°	189	191	192	194	196	198	199	201	203	203	203
12.5°	195	197	198	199	201	202	203	205	206	211	217
15°	172	175	179	182	185	188	192	195	198	198	198
17.5°	190	193	197	200	204	207	211	214	218	219	219
20°	185	190	195	200	206	211	216	221	226	227	229
22.5°	155	165	176	186	196	206	217	227	237	237	237
25°	98	113	127	142	156	171	185	200	214	214	214
27.5°	99	115	132	148	165	181	198	214	231	231	232
30°	86	104	122	140	158	176	194	212	230	231	231
32.5°	66	84	101	119	136	154	171	189	206	208	210
35°	86	99	111	123	136	148	160	173	185	191	197
37.5°	61	71	82	93	103	114	125	135	146	157	168
40°	61	72	83	94	106	117	128	139	150	160	171
42.5°	69	77	86	95	103	112	121	129	138	150	162
45°	89	95	101	107	113	119	125	131	137	149	161
47.5°	65	75	84	94	103	113	122	132	141	152	163
50°	61	70	80	89	98	107	117	126	135	146	158
52.5°	71	81	90	100	110	120	129	139	149	158	167
55°	115	117	120	122	125	127	130	132	135	147	159
57.5°	114	114	115	115	115	115	116	116	116	128	140
60°	227	215	202	190	177	165	152	140	127	138	149
62.5°	283	265	248	230	213	195	178	160	143	151	159
65°	336	309	283	256	230	203	177	150	124	133	142
67.5°	367	338	309	280	251	222	193	164	135	143	151
70°	383	352	321	290	259	228	197	166	135	139	143
72.5°	386	357	328	299	270	241	212	183	154	154	154
75°	340	307	275	242	210	177	145	112	80	82	84
77.5°	307	275	242	210	178	146	114	82	50	48	47
80°	264	235	205	175	146	116	86	57	27	25	24
82.5°	214	191	167	143	120	96	72	49	25	24	22
85°	175	155	134	114	93	73	52	32	11	10	9
87.5°	90	79	67	56	45	34	22	11	0	0	0
90°	46	40	35	29	23	17	12	6	0	0	0
92.5°	20	18	15	13	10	8	5	3	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
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: P11871
 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: P11871
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°
0°	202	202	202	202	202	202	202
2.5°	190	190	190	190	190	190	190
5°	155	155	154	154	154	154	154
7.5°	209	209	208	208	207	207	206
10°	203	203	204	204	204	204	204
12.5°	222	227	233	238	243	249	254
15°	197	197	197	197	196	196	196
17.5°	220	221	221	222	223	223	224
20°	230	231	233	234	235	237	238
22.5°	237	237	238	238	238	238	238
25°	215	215	215	215	216	216	216
27.5°	232	232	233	233	233	234	234
30°	232	233	233	234	235	235	236
32.5°	213	215	217	219	222	224	226
35°	203	209	216	222	228	234	240
37.5°	179	190	200	211	222	233	244
40°	181	192	202	213	223	234	244
42.5°	174	186	198	210	222	234	246
45°	173	185	196	208	220	232	244
47.5°	173	184	195	206	216	227	238
50°	169	181	192	204	215	227	238
52.5°	176	185	194	203	212	221	230
55°	171	183	194	206	218	230	242
57.5°	153	165	177	189	202	214	226
60°	159	170	181	192	202	213	224
62.5°	167	175	182	190	198	206	214
65°	151	160	170	179	188	197	206
67.5°	158	166	174	182	189	197	205
70°	147	151	156	160	164	168	172
72.5°	154	154	155	155	155	155	155
75°	87	89	91	93	96	98	100
77.5°	46	45	44	43	42	41	40
80°	22	20	19	17	15	14	12
82.5°	21	19	18	16	15	13	12
85°	9	8	7	6	6	5	4
87.5°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	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: P11871
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)