

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: P11872

Luminaire Tested: **CEL7035SD**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P11872
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 (PARTIALLY OPEN) AT 5.25 INCH FROM FIXTURE
Light Source: TWO BIPIN HALOGEN INCANDESCENT MR16 SPOT LAMPS
(2) 75MR16/12 75 WATTS
Ballast/Driver: -

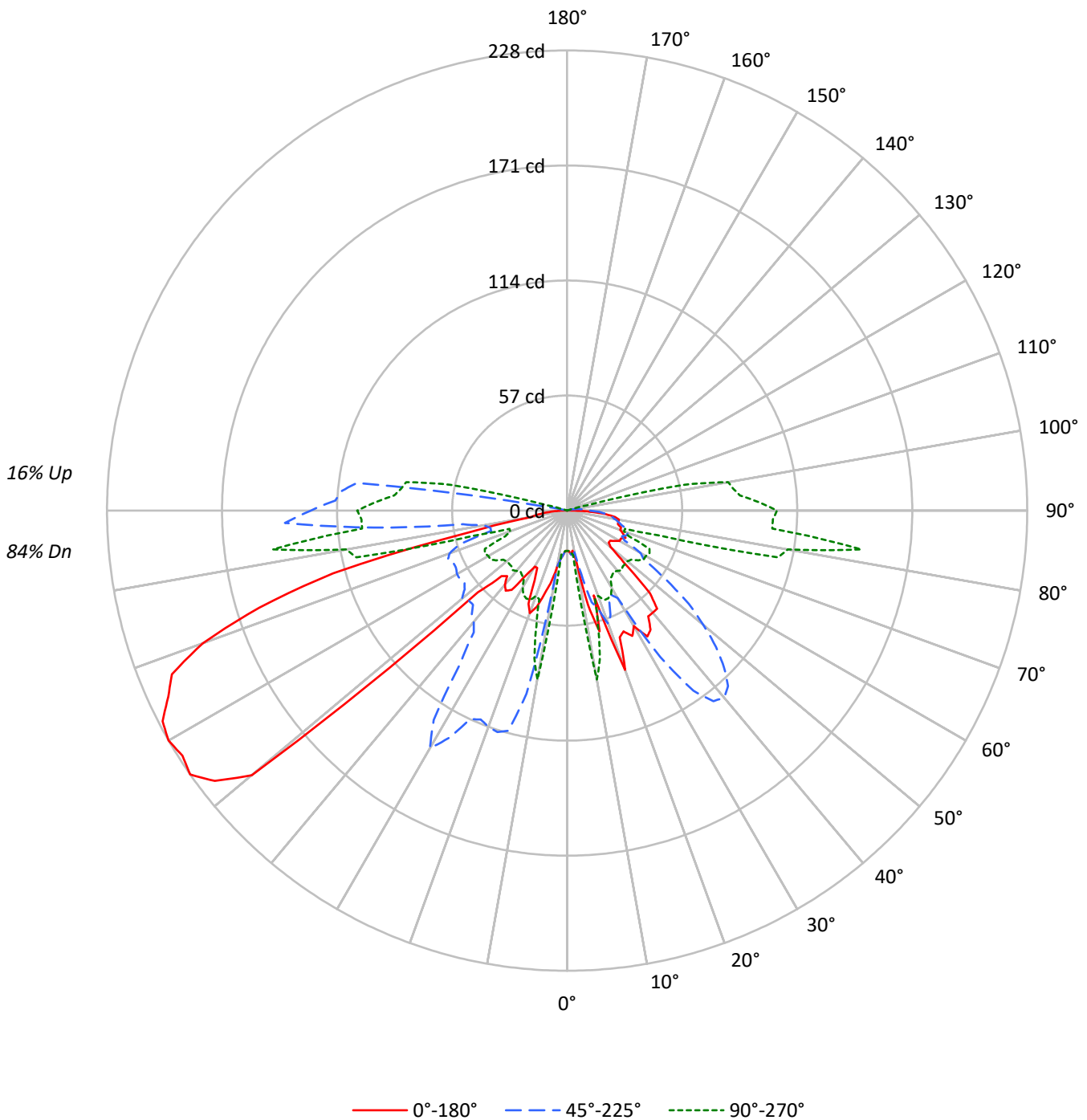
Summary

Lumens per Lamp: 1137 (2 lamps)
Luminaire Lumens: 459.1 lumens
Efficiency: 20.2%
Efficacy: 6.1 lumens/watt
Spacing Criteria (0/90/45): 4.2 / 2.44 / 2.65
Luminous Opening: Rectangular (W 0.52' x L: 0.44' x H: 0')
CIE Type: Semi-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	23	23	23	23	22	22	22	22	21	21	21	19	19	19	18	18	18	17
1	20	19	17	16	19	18	17	16	16	15	15	15	14	14	14	13	13	12
2	18	16	14	12	17	15	13	12	14	12	11	13	11	10	11	11	10	9
3	16	13	11	10	15	13	11	9	12	10	9	11	9	8	10	9	8	7
4	14	12	10	8	14	11	9	8	10	9	7	9	8	7	8	7	6	6
5	13	10	8	7	13	10	8	6	9	7	6	8	7	6	8	6	5	5
6	12	9	7	6	11	9	7	5	8	6	5	7	6	5	7	5	5	4
7	11	8	6	5	11	8	6	5	7	6	4	7	5	4	6	5	4	3
8	10	7	5	4	10	7	5	4	7	5	4	6	5	4	6	4	3	3
9	10	7	5	4	9	6	5	4	6	4	3	5	4	3	5	4	3	3
10	9	6	4	3	9	6	4	3	5	4	3	5	4	3	5	4	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	945	945	945
5°	1043	996	1043
10°	1151	4077	1343
15°	3032	2885	2054
20°	4223	2262	2715
25°	3440	2502	1981
30°	3600	2400	1745
35°	4152	2249	2768
40°	4070	2405	2960
45°	3875	2605	3073
50°	2058	2866	14992
55°	2141	3541	18777
60°	2834	4251	21541
65°	3577	5030	24367
70°	3867	4143	26518
75°	4745	8761	21902
80°	7073	30196	4897
85°	9756	55284	5420



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	2.5	0.5	0.1	0°	20	20	20	20	20	
10°-20°	17.1	3.7	0.8	5°	22	22	21	22	22	2
20°-30°	34.2	7.5	1.5	15°	62	47	59	113	42	15
30°-40°	46.4	10.1	2.0	25°	66	49	48	114	38	32
40°-50°	54.2	11.8	2.4	35°	72	109	39	92	48	44
50°-60°	58.9	12.8	2.6	45°	58	110	39	66	46	40
60°-70°	59.0	12.9	2.6	55°	26	60	43	62	228	24
70°-80°	59.2	12.9	2.6	65°	32	30	45	62	218	30
80°-90°	55.9	12.2	2.5	75°	26	28	48	39	120	28
90°-100°	57.5	12.5	2.5	85°	18	19	102	96	10	16
100°-110°	14.0	3.1	0.6	90°	2	11	104	127	2	2
110°-120°	0.0	0.0	0.0	95°	0	7	86	112	0	0
120°-130°	0.0	0.0	0.0	105°	0	1	10	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°	53.9	11.7	2.4	165°	0	0	0	0	0	0
0°-40°	100.3	21.8	4.4	175°	0	0	0	0	0	0
0°-60°	213.4	46.5	9.4	180°	0	0	0	0	0	0
0°-90°	387.6	84.4	17.0							
90°-120°	71.5	15.6	3.1							
90°-150°	71.5	15.6	3.1							
90°-180°	72.0	15.7	3.2							
0°-180°	459.1	100.0	20.2							



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	20	20	20	20	20	20	20	20	20	20	20
2.5°	20	20	20	20	20	20	20	20	20	20	20
5°	22	22	22	22	22	21	21	21	21	21	21
7.5°	20	20	20	20	20	21	21	21	21	21	21
10°	24	24	24	24	24	23	23	23	23	23	23
12.5°	48	47	46	44	43	42	41	39	38	37	36
15°	62	61	60	59	58	58	57	56	55	54	53
17.5°	44	45	46	47	48	50	51	52	53	54	54
20°	84	80	76	72	68	63	59	55	51	47	48
22.5°	68	71	74	78	81	84	87	91	94	97	92
25°	66	70	74	79	83	87	91	96	100	104	98
27.5°	70	73	76	79	82	84	87	90	93	96	91
30°	66	68	70	72	74	76	78	80	82	84	80
32.5°	74	74	74	74	74	74	74	74	74	74	75
35°	72	71	71	70	69	69	68	67	67	66	71
37.5°	66	66	65	65	64	64	63	63	62	62	68
40°	66	66	66	66	66	67	67	67	67	67	73
42.5°	66	66	65	65	65	64	64	64	63	63	69
45°	58	58	58	58	58	58	58	58	58	58	64
47.5°	38	40	42	44	46	47	49	51	53	55	60
50°	28	30	31	33	35	36	38	40	41	43	48
52.5°	26	27	28	29	30	32	33	34	35	36	40
55°	26	27	28	29	30	30	31	32	33	34	37
57.5°	28	29	29	30	31	31	32	33	33	34	35
60°	30	30	31	31	31	32	32	32	33	33	34
62.5°	30	30	30	30	30	29	29	29	29	29	29
65°	32	32	31	31	30	30	29	29	28	28	28
67.5°	30	30	29	29	28	28	27	27	26	26	27
70°	28	28	28	27	27	27	27	26	26	26	27
72.5°	28	28	28	27	27	27	27	26	26	26	27
75°	26	26	26	26	26	25	25	25	25	25	25
77.5°	26	26	25	25	25	25	24	24	24	24	24
80°	26	25	25	24	24	23	23	22	22	21	21
82.5°	24	23	22	21	21	20	19	18	17	17	17
85°	18	18	17	17	16	16	15	15	14	14	15
87.5°	10	10	10	10	10	10	10	10	10	10	10
90°	2	2	2	3	3	3	3	4	4	4	5
92.5°	0	0	1	1	1	1	2	2	2	3	3
95°	0	0	0	1	1	1	1	2	2	2	3
97.5°	0	0	0	0	0	1	1	1	1	1	2
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):

	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°	20	20	20	20	20	20	20	20	20	20	20
2.5°	20	20	20	20	20	20	20	20	20	21	21
5°	21	21	21	22	22	22	22	22	22	22	21
7.5°	21	21	21	22	22	22	22	22	22	22	21
10°	23	22	22	22	22	21	21	21	21	22	22
12.5°	36	35	35	34	34	33	33	32	38	44	49
15°	52	52	51	50	49	49	48	47	46	46	45
17.5°	53	53	53	52	52	52	51	51	49	47	44
20°	50	51	53	54	56	57	59	60	57	54	50
22.5°	88	83	79	74	70	65	61	56	55	53	52
25°	92	86	80	73	67	61	55	49	50	51	52
27.5°	85	80	74	69	63	58	52	47	48	48	49
30°	76	73	69	65	61	58	54	50	49	47	46
32.5°	77	78	79	81	82	83	85	86	75	64	53
35°	76	80	85	90	95	99	104	109	92	75	58
37.5°	75	81	87	94	100	106	113	119	100	81	62
40°	79	85	91	97	103	109	115	121	102	83	63
42.5°	75	81	87	94	100	106	112	118	104	89	75
45°	70	75	81	87	93	98	104	110	105	101	96
47.5°	65	70	75	80	85	90	95	100	102	104	105
50°	53	58	63	68	73	78	83	88	96	103	111
52.5°	45	49	54	58	63	67	72	76	87	99	110
55°	40	43	46	48	51	54	57	60	75	91	106
57.5°	36	38	39	40	41	43	44	45	62	80	97
60°	35	36	37	38	39	40	41	42	56	70	84
62.5°	30	30	30	31	31	31	32	32	43	54	64
65°	28	29	29	29	29	30	30	30	33	35	38
67.5°	27	28	29	29	30	31	31	32	31	30	28
70°	27	28	29	29	30	31	31	32	31	29	28
72.5°	27	28	28	29	29	30	30	31	30	29	27
75°	26	26	26	27	27	27	28	28	27	27	26
77.5°	24	24	25	25	25	25	26	26	26	26	25
80°	22	22	22	23	23	23	24	24	24	24	24
82.5°	18	18	19	19	20	20	21	22	21	21	21
85°	15	16	16	17	17	18	18	19	19	18	18
87.5°	11	12	12	13	14	14	15	16	15	15	15
90°	6	6	7	8	9	9	10	11	11	11	11
92.5°	4	5	5	6	7	7	8	9	9	9	9
95°	3	4	4	5	5	6	6	7	7	8	8
97.5°	2	3	3	4	4	5	5	6	7	7	8
100°	1	1	2	2	3	3	4	4	5	6	7
102.5°	1	1	1	1	2	2	2	3	3	4	5
105°	0	0	0	1	1	1	1	1	2	3	3
107.5°	0	0	0	0	0	0	0	1	1	1	2
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



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	20	20	20	20	20	20	20	20	20	20	20
2.5°	21	21	21	21	21	21	21	21	21	21	21
5°	21	21	21	21	21	21	21	21	21	21	21
7.5°	21	22	22	22	22	22	22	22	22	22	22
10°	22	23	27	36	47	55	62	66	68	71	74
12.5°	55	56	57	59	60	61	62	63	64	66	68
15°	44	44	44	44	44	45	45	46	47	49	51
17.5°	42	42	42	41	41	40	40	40	41	42	43
20°	47	47	47	46	45	44	44	44	45	45	45
22.5°	50	49	47	45	43	42	41	42	43	44	45
25°	53	51	47	45	43	43	43	45	45	46	46
27.5°	49	50	47	44	42	42	42	44	44	45	45
30°	44	46	46	43	39	38	40	40	41	42	42
32.5°	42	42	41	40	37	36	37	37	38	38	39
35°	41	40	38	37	35	36	35	35	35	36	36
37.5°	43	39	39	38	36	38	37	36	35	36	36
40°	44	38	36	38	38	38	37	38	37	37	38
42.5°	60	41	36	38	38	39	38	38	38	38	39
45°	91	47	39	39	38	39	38	37	37	37	38
47.5°	107	70	44	40	39	38	38	37	37	37	38
50°	118	97	48	42	40	39	39	39	40	40	40
52.5°	121	113	72	46	42	41	40	41	41	41	41
55°	121	120	98	50	43	43	43	44	44	44	44
57.5°	114	122	113	63	46	45	45	46	46	46	46
60°	98	116	120	87	47	47	47	49	49	48	48
62.5°	75	94	88	54	47	48	48	49	50	49	49
65°	40	40	33	40	44	46	47	49	50	49	48
67.5°	27	27	26	30	37	46	47	48	47	45	42
70°	26	26	26	27	27	34	33	33	32	32	31
72.5°	26	26	25	26	26	27	28	29	30	30	30
75°	25	25	25	26	25	26	27	30	30	33	36
77.5°	25	25	25	25	25	26	28	30	30	43	56
80°	24	23	24	24	24	26	28	29	31	44	58
82.5°	21	21	21	21	23	26	28	28	32	51	70
85°	17	18	17	17	18	19	20	21	27	40	52
87.5°	15	14	15	14	16	16	17	20	37	48	59
90°	11	11	11	13	14	16	16	21	54	62	71
92.5°	10	10	10	12	13	15	16	22	78	80	83
95°	8	9	9	12	12	14	16	32	100	98	95
97.5°	8	8	10	11	12	14	17	36	95	93	91
100°	8	8	9	10	12	14	19	50	93	91	89
102.5°	6	6	8	9	11	12	15	19	29	34	39
105°	4	4	4	4	5	8	9	11	12	12	11
107.5°	2	2	3	3	3	3	3	3	3	2	2
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11872
 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: P11872
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	20	20	20	20	20	20	20	20	20	20	20
2.5°	21	20	20	20	20	20	20	20	20	20	20
5°	21	21	21	21	21	21	21	21	21	21	21
7.5°	22	22	22	22	22	22	22	22	22	22	22
10°	77	79	82	85	86	86	87	88	88	89	88
12.5°	70	71	73	75	77	80	82	84	87	89	92
15°	53	55	57	59	62	64	67	70	72	75	79
17.5°	44	44	45	46	49	51	54	57	59	62	66
20°	45	45	45	45	46	47	49	50	51	52	55
22.5°	46	46	47	48	48	48	49	49	49	49	49
25°	47	47	47	48	49	49	50	50	50	51	51
27.5°	46	46	46	47	47	48	48	48	49	49	53
30°	43	43	43	44	45	46	48	49	50	51	52
32.5°	39	39	40	40	42	43	45	47	48	50	50
35°	37	38	38	39	40	42	43	44	46	47	50
37.5°	37	37	37	38	40	42	44	46	48	50	53
40°	38	38	39	39	41	43	45	47	49	51	54
42.5°	39	39	40	40	42	43	45	47	48	50	53
45°	38	38	39	39	41	42	44	46	47	49	50
47.5°	38	38	39	39	40	42	43	44	46	47	49
50°	40	39	39	39	40	42	43	44	46	47	49
52.5°	41	40	40	40	41	42	44	45	46	47	50
55°	44	43	43	43	44	45	46	47	48	49	50
57.5°	46	45	45	45	46	47	48	49	50	51	51
60°	47	46	46	45	46	47	48	49	50	51	53
62.5°	48	47	47	46	47	48	49	50	51	52	53
65°	48	47	46	45	46	47	48	49	50	51	53
67.5°	40	38	35	33	36	39	42	44	47	50	51
70°	31	31	30	30	32	34	36	38	40	42	44
72.5°	30	30	30	30	32	34	36	38	40	42	43
75°	39	42	45	48	49	50	51	52	53	54	53
77.5°	68	81	94	107	108	110	112	113	115	117	118
80°	71	84	98	111	114	116	119	121	123	126	134
82.5°	89	108	127	147	142	138	134	129	125	121	130
85°	65	77	89	102	104	105	107	109	110	112	120
87.5°	69	80	91	102	103	105	107	109	110	112	112
90°	79	87	96	104	107	111	114	117	121	124	120
92.5°	86	89	92	95	101	108	114	120	127	133	130
95°	93	91	88	86	97	109	120	131	143	154	154
97.5°	89	87	85	83	102	120	139	158	176	195	206
100°	87	85	83	81	108	135	163	190	217	244	264
102.5°	44	49	53	59	73	87	102	116	131	145	135
105°	11	11	10	10	17	23	30	36	42	49	40
107.5°	2	2	2	2	2	2	2	2	2	2	2
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11872
 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: P11872
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	20	20	20	20	20	20	20	20	20	20	20
2.5°	20	20	20	20	20	20	20	20	20	20	20
5°	22	21	21	22	22	22	22	22	22	22	22
7.5°	22	22	23	23	23	23	23	23	24	24	24
10°	88	87	85	79	73	63	52	46	40	34	28
12.5°	95	99	102	105	106	108	106	103	100	96	93
15°	82	86	91	95	99	105	108	109	111	112	113
17.5°	70	75	79	83	88	95	100	104	108	111	115
20°	59	63	68	73	79	85	90	96	102	108	114
22.5°	50	54	58	63	70	77	84	91	98	105	112
25°	51	53	53	56	61	68	74	84	94	104	114
27.5°	55	57	56	57	58	62	70	84	99	113	127
30°	51	53	56	61	64	67	74	90	105	121	136
32.5°	52	56	60	64	70	79	95	102	109	116	123
35°	54	58	61	67	75	99	130	121	111	102	92
37.5°	55	59	63	74	99	140	159	138	118	97	76
40°	56	59	65	84	130	167	147	128	110	91	72
42.5°	55	59	68	95	142	135	99	92	85	77	70
45°	52	58	69	104	115	90	74	72	70	68	66
47.5°	52	56	71	90	82	71	68	68	67	67	66
50°	52	57	70	74	67	65	64	65	66	67	68
52.5°	52	57	65	65	61	60	59	60	62	63	64
55°	52	56	59	60	60	58	58	59	60	61	62
57.5°	52	55	55	56	58	59	58	59	61	62	63
60°	53	54	56	58	59	60	60	61	62	62	63
62.5°	54	55	57	59	59	61	61	61	62	62	62
65°	54	55	57	60	59	60	60	61	61	62	62
67.5°	53	54	55	57	58	59	59	60	62	63	64
70°	47	49	52	55	57	57	56	58	59	61	62
72.5°	47	47	48	48	46	47	46	49	51	54	56
75°	57	56	55	53	49	51	45	44	42	41	39
77.5°	121	118	116	115	109	85	63	57	51	45	39
80°	137	140	136	137	136	139	149	122	96	69	42
82.5°	133	135	135	135	131	134	134	113	93	72	52
85°	126	123	124	127	128	127	123	116	110	103	96
87.5°	117	118	119	120	123	116	113	120	127	133	140
90°	119	119	120	118	121	114	107	112	117	122	127
92.5°	130	130	131	133	131	124	116	116	115	115	115
95°	155	162	163	166	164	152	140	133	126	119	112
97.5°	210	220	227	226	221	207	177	159	141	123	105
100°	269	281	292	180	135	102	76	60	44	27	11
102.5°	93	71	53	19	12	9	6	5	4	2	1
105°	19	7	3	2	1	1	1	1	1	0	0
107.5°	1	1	1	1	1	1	1	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11872
 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: P11872
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	20	20	20	20	20	20	20	20	20	20	20
2.5°	20	20	20	20	20	20	20	20	20	20	20
5°	22	22	22	22	21	21	21	21	21	21	21
7.5°	24	24	24	24	24	24	24	24	24	24	24
10°	28	28	28	28	29	29	29	29	29	29	29
12.5°	87	80	74	67	61	54	48	41	35	35	35
15°	105	97	89	81	73	65	57	49	41	41	41
17.5°	108	102	95	88	82	75	68	62	55	54	54
20°	114	114	115	115	115	115	116	116	116	109	102
22.5°	116	119	123	127	130	134	138	141	145	134	124
25°	118	122	125	129	133	137	140	144	148	136	124
27.5°	128	129	130	131	133	134	135	136	137	125	114
30°	135	135	134	133	133	132	131	131	130	119	108
32.5°	124	125	125	126	127	128	128	129	130	120	110
35°	96	101	105	109	114	118	122	127	131	122	113
37.5°	82	88	94	100	107	113	119	125	131	122	113
40°	79	85	92	98	105	111	118	124	131	122	113
42.5°	77	83	90	96	103	109	116	122	129	120	110
45°	72	78	84	90	95	101	107	113	119	111	103
47.5°	70	75	79	84	88	93	97	102	106	101	96
50°	71	73	76	79	81	84	87	89	92	104	117
52.5°	66	67	69	71	72	74	76	77	79	95	110
55°	63	63	64	64	65	65	66	66	67	85	103
57.5°	62	61	61	60	59	58	58	57	56	75	94
60°	62	62	61	60	60	59	58	58	57	76	95
62.5°	62	62	62	62	62	62	62	62	62	80	98
65°	62	62	62	62	63	63	63	63	63	80	97
67.5°	68	71	75	78	82	85	89	92	96	109	122
70°	70	78	86	94	102	110	118	126	134	140	147
72.5°	66	76	86	96	105	115	125	135	145	147	148
75°	51	62	74	86	97	109	121	132	144	141	139
77.5°	43	48	53	57	62	66	71	75	80	76	73
80°	41	41	40	39	39	38	37	37	36	34	32
82.5°	48	45	41	37	33	30	26	22	19	18	17
85°	87	78	68	59	50	41	31	22	13	13	12
87.5°	125	111	96	82	67	52	38	23	9	8	8
90°	113	100	86	73	59	46	32	19	5	5	4
92.5°	102	90	77	65	53	40	28	15	3	3	2
95°	100	88	75	63	51	39	26	14	2	2	2
97.5°	93	82	70	59	48	36	25	13	2	2	2
100°	10	9	7	6	5	4	2	1	0	0	0
102.5°	1	1	1	1	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: P11872
 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: P11872
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°
0°	20	20	20	20	20	20	20
2.5°	20	20	20	20	20	20	20
5°	21	21	22	22	22	22	22
7.5°	24	24	24	24	24	24	24
10°	29	29	28	28	28	28	28
12.5°	35	35	36	36	36	36	36
15°	41	41	42	42	42	42	42
17.5°	53	53	52	52	51	51	50
20°	95	88	82	75	68	61	54
22.5°	113	103	92	82	71	61	50
25°	111	99	87	75	62	50	38
27.5°	102	90	79	67	55	44	32
30°	97	86	76	65	54	43	32
32.5°	99	89	79	69	58	48	38
35°	103	94	85	76	66	57	48
37.5°	104	95	86	77	68	59	50
40°	103	94	85	76	66	57	48
42.5°	101	91	82	72	63	53	44
45°	95	87	78	70	62	54	46
47.5°	91	86	80	75	70	65	60
50°	129	142	154	167	179	192	204
52.5°	126	142	157	173	189	204	220
55°	121	139	156	174	192	210	228
57.5°	113	132	150	169	188	207	226
60°	114	133	152	171	190	209	228
62.5°	117	135	153	171	190	208	226
65°	115	132	149	166	184	201	218
67.5°	135	148	160	173	186	199	212
70°	153	160	166	173	179	186	192
72.5°	150	152	153	155	157	158	160
75°	136	133	131	128	125	123	120
77.5°	69	66	62	59	55	52	49
80°	30	28	26	24	22	20	18
82.5°	17	16	16	15	15	14	14
85°	12	12	11	11	11	10	10
87.5°	7	7	7	6	6	5	5
90°	4	4	3	3	3	2	2
92.5°	2	2	1	1	1	0	0
95°	1	1	1	1	0	0	0
97.5°	1	1	1	1	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: P11872
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)