

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: P11867

Luminaire Tested: **CEL7035SD**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P11867
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 (PARTIALLY OPEN) AT 5.25 INCH FROM FIXTURE
EDGE, LAMP STRAIGHT DOWN AT CENTER.
Light Source: ONE BIPIN HALOGEN INCANDESCENT MR16 12 DEGREES SPOT LAMP
(2)75MR16/12 75 WATTS
Ballast/Driver: -

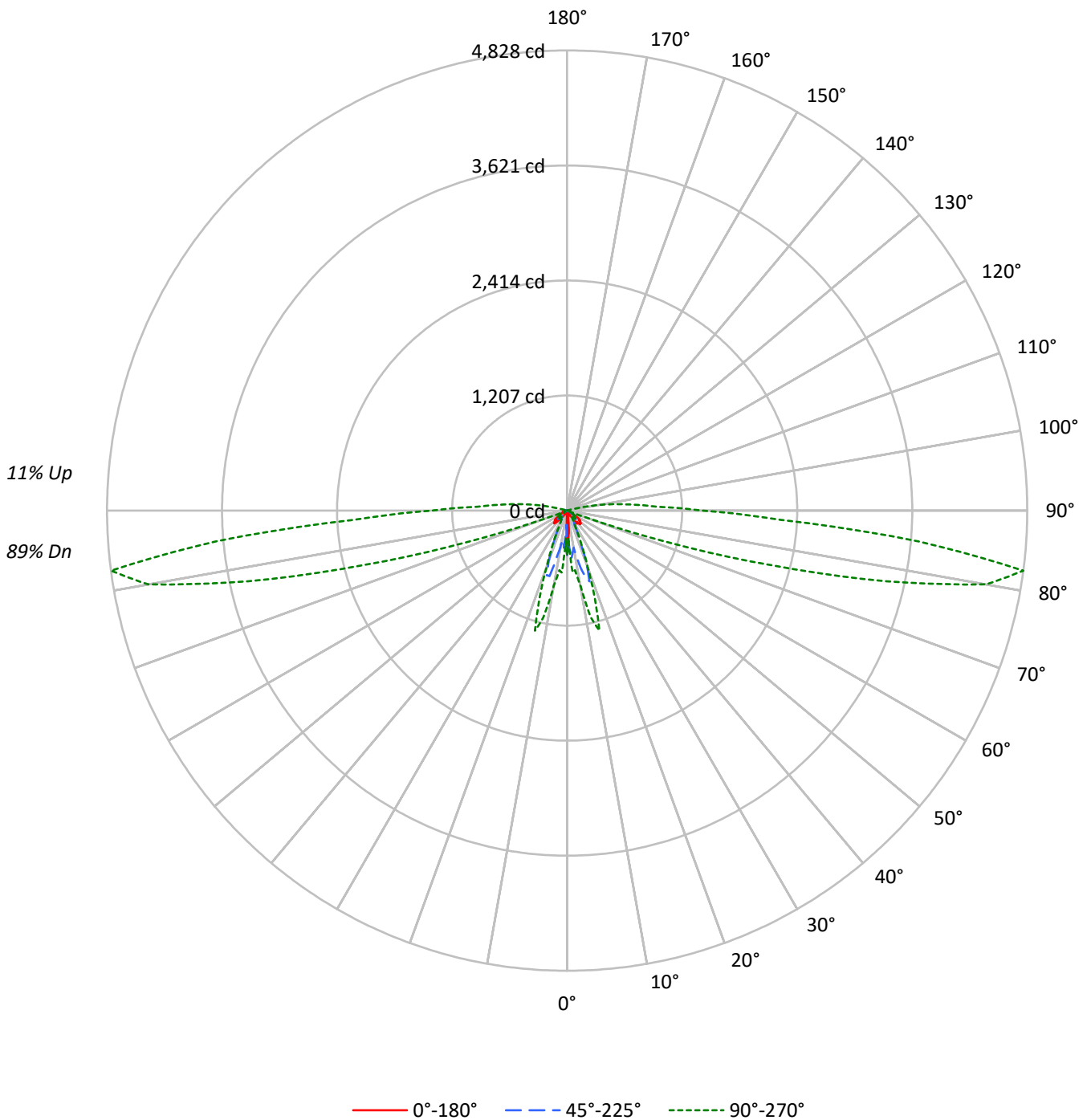
Summary

Lumens per Lamp: 1137 (2 lamps)
Luminaire Lumens: 1410.9 lumens
Efficiency: 62.0%
Efficacy: 18.8 lumens/watt
Spacing Criteria (0/90/45): 0.07 / 0.9 / 0.75
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: P11867
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	50	30	10	0	
RCR																						
0	72	72	72	72	70	70	70	70	65	65	65	61	61	61	57	57	57	55				55
1	59	53	48	43	56	51	46	41	46	42	39	42	39	36	39	36	34	31				31
2	52	44	38	32	50	42	36	31	39	34	29	35	31	27	32	29	26	24				24
3	47	39	32	26	45	37	31	26	34	28	24	31	26	23	28	25	21	19				19
4	44	34	28	22	41	33	27	22	30	25	21	28	23	20	26	22	19	17				17
5	40	31	25	20	38	30	24	19	28	22	18	26	21	17	24	20	17	15				15
6	38	28	22	18	36	27	21	17	25	20	16	24	19	16	22	18	15	13				13
7	35	26	20	16	34	25	20	16	24	19	15	22	18	14	21	17	14	12				12
8	33	24	18	15	32	23	18	14	22	17	14	20	16	13	19	15	13	11				11
9	31	22	17	13	30	22	17	13	20	16	13	19	15	12	18	14	12	11				11
10	29	21	16	12	28	20	15	12	19	15	12	18	14	11	17	14	11	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22013	22013	22013
5°	9104	30964	1233
10°	1439	38134	1247
15°	1174	63821	685
20°	1408	31670	1206
25°	1668	13760	1147
30°	3382	7255	2509
35°	7151	6286	3460
40°	9496	4995	6537
45°	13094	8017	12827
50°	11758	6320	10436
55°	12024	9471	11695
60°	3968	3118	8314
65°	5812	3912	5812
70°	3867	28452	6077
75°	5110	403540	5110
80°	5985	1213817	13058
85°	7588	2005935	3252



TEST NUMBER: P11867
 CATALOG NUMBER: CEL7035SD

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	34.8	2.5	1.5	0°	466	466	466	466	466	
10°-20°	155.5	11.0	6.8	5°	192	513	653	392	26	12
20°-30°	105.1	7.5	4.6	15°	24	709	1305	711	14	6
30°-40°	68.3	4.8	3.0	25°	32	250	264	255	22	16
40°-50°	94.9	6.7	4.2	35°	124	119	109	106	60	75
50°-60°	87.8	6.2	3.9	45°	196	121	120	129	192	144
60°-70°	38.2	2.7	1.7	55°	146	86	115	81	142	114
70°-80°	263.5	18.7	11.6	65°	52	34	35	33	52	43
80°-90°	400.5	28.4	17.6	75°	28	11	2211	18	28	30
90°-100°	140.6	10.0	6.2	85°	14	29	3701	27	6	14
100°-110°	21.6	1.5	1.0	90°	6	29	1419	11	0	2
110°-120°	0.0	0.0	0.0	95°	2	31	697	33	2	4
120°-130°	0.0	0.0	0.0	105°	8	8	38	19	4	4
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°	295.5	20.9	13.0	165°	0	0	0	0	0	0
0°-40°	363.8	25.8	16.0	175°	0	0	0	0	0	0
0°-60°	546.4	38.7	24.0	180°	0	0	0	0	0	0
0°-90°	1248.7	88.5	54.9							
90°-120°	162.2	11.5	7.1							
90°-150°	162.2	11.5	7.1							
90°-180°	162.0	11.5	7.1							
0°-180°	1410.9	100.0	62.0							



TEST NUMBER: P11867
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	466	466	466	466	466	466	466	466	466	466	466
2.5°	310	310	310	310	310	311	311	311	311	311	311
5°	192	207	222	237	252	266	281	296	311	326	347
7.5°	38	53	68	83	98	113	128	143	158	173	203
10°	30	40	50	60	70	79	89	99	109	119	150
12.5°	26	36	45	55	64	74	83	93	102	112	163
15°	24	35	46	57	68	80	91	102	113	124	189
17.5°	10	26	43	59	75	92	108	124	141	157	226
20°	28	48	68	88	108	129	149	169	189	209	251
22.5°	24	47	70	93	116	138	161	184	207	230	247
25°	32	50	68	85	103	121	139	156	174	192	198
27.5°	34	50	66	82	98	113	129	145	161	177	176
30°	62	71	81	90	99	109	118	127	137	146	146
32.5°	60	69	78	86	95	104	113	121	130	139	137
35°	124	126	127	129	131	132	134	136	137	139	137
37.5°	172	165	158	152	145	138	131	125	118	111	111
40°	154	150	146	142	138	134	130	126	122	118	115
42.5°	194	186	178	170	162	155	147	139	131	123	123
45°	196	189	181	174	166	159	151	144	136	129	128
47.5°	196	195	193	192	191	189	188	187	185	184	177
50°	160	160	160	161	161	161	161	162	162	162	154
52.5°	174	175	175	176	176	177	177	178	178	179	171
55°	146	145	144	143	142	140	139	138	137	136	130
57.5°	94	94	95	95	96	96	97	97	98	98	94
60°	42	42	42	41	41	41	41	40	40	40	39
62.5°	72	71	70	69	68	68	67	66	65	64	61
65°	52	52	53	53	54	54	55	55	56	56	54
67.5°	14	16	18	20	22	24	26	28	30	32	31
70°	28	27	27	26	26	25	25	24	24	23	24
72.5°	34	33	31	30	28	27	26	24	23	22	22
75°	28	27	26	26	25	24	23	23	22	21	20
77.5°	26	25	24	23	22	22	21	20	19	18	18
80°	22	21	21	20	19	19	18	17	17	16	17
82.5°	23	21	19	17	15	13	11	9	7	5	5
85°	14	13	12	11	10	8	7	6	5	4	7
87.5°	5	5	5	5	5	5	5	5	5	5	6
90°	6	7	8	8	9	10	11	11	12	13	15
92.5°	0	0	1	1	1	2	2	2	3	3	3
95°	2	3	3	4	5	5	6	7	7	8	11
97.5°	11	10	9	8	7	7	6	5	4	3	4
100°	0	1	2	2	3	4	5	5	6	7	7
102.5°	1	1	1	2	2	2	2	2	2	3	3
105°	8	8	8	7	7	7	7	6	6	6	6
107.5°	6	6	6	5	5	5	5	5	5	5	4
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11867
 CATALOG NUMBER: CEL7035SD

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°	466	466	466	466	466	466	466	466	466	466	466
2.5°	310	310	310	309	309	309	308	308	308	308	309
5°	368	388	409	430	451	471	492	513	525	537	549
7.5°	232	262	291	321	350	380	409	439	457	475	493
10°	180	211	241	272	302	333	363	394	428	461	495
12.5°	213	264	314	365	415	466	516	567	614	661	709
15°	254	319	384	449	514	579	644	709	766	823	880
17.5°	295	364	433	503	572	641	710	779	796	813	830
20°	293	335	377	418	460	502	544	586	591	596	602
22.5°	264	281	298	316	333	350	367	384	390	396	401
25°	205	211	218	224	231	237	244	250	252	254	256
27.5°	175	174	173	171	170	169	168	167	168	169	170
30°	146	146	146	146	146	146	146	146	146	145	145
32.5°	135	134	132	130	128	127	125	123	124	126	127
35°	135	132	130	128	126	123	121	119	119	119	118
37.5°	111	111	111	110	110	110	110	110	110	109	109
40°	112	109	106	104	101	98	95	92	93	94	95
42.5°	123	123	123	124	124	124	124	124	122	121	119
45°	127	126	125	125	124	123	122	121	120	119	118
47.5°	170	164	157	150	143	137	130	123	122	120	119
50°	146	137	129	121	113	104	96	88	89	89	90
52.5°	163	155	147	140	132	124	116	108	107	106	105
55°	125	119	114	108	103	97	92	86	88	90	92
57.5°	90	87	83	79	75	72	68	64	64	65	65
60°	38	36	35	34	33	31	30	29	30	30	31
62.5°	57	54	51	47	44	41	37	34	34	33	33
65°	51	49	46	44	41	39	36	34	34	34	35
67.5°	30	29	28	28	27	26	25	24	24	24	24
70°	25	27	28	29	30	32	33	34	32	31	29
72.5°	22	23	23	24	24	25	25	26	25	24	23
75°	19	18	17	15	14	13	12	11	15	20	24
77.5°	18	19	19	19	19	20	20	20	39	58	77
80°	18	19	20	22	23	24	25	26	50	74	99
82.5°	5	6	6	6	7	7	7	8	32	56	80
85°	10	12	15	18	21	23	26	29	50	71	92
87.5°	6	7	8	8	9	10	10	11	30	49	69
90°	17	18	20	22	24	25	27	29	43	57	70
92.5°	3	4	4	4	4	4	4	5	18	31	44
95°	13	16	18	21	23	26	28	31	41	50	60
97.5°	4	5	5	6	7	7	8	9	18	28	38
100°	7	6	6	6	6	5	5	5	13	21	29
102.5°	3	3	3	3	3	3	3	3	5	7	9
105°	6	7	7	7	7	8	8	8	8	8	8
107.5°	4	4	4	4	4	4	4	4	4	3	3
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11867
 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: P11867
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	466	466	466	466	466	466	466	466	466	466	466
2.5°	309	309	309	310	310	310	312	316	312	311	309
5°	561	574	586	598	610	622	631	652	659	651	657
7.5°	511	528	546	564	582	600	610	614	620	625	625
10°	529	562	596	630	663	697	726	721	741	756	762
12.5°	756	803	850	898	945	992	1007	1044	1070	1094	1120
15°	937	995	1052	1109	1166	1223	1251	1270	1288	1294	1304
17.5°	847	865	882	899	916	933	945	954	950	965	979
20°	607	612	617	623	628	633	631	623	625	634	633
22.5°	407	413	419	424	430	436	407	407	402	400	398
25°	258	260	262	264	266	268	265	263	268	257	265
27.5°	171	172	173	174	175	176	179	191	176	174	175
30°	144	144	143	143	142	142	141	135	141	155	133
32.5°	128	130	131	132	134	135	125	116	118	114	114
35°	118	118	118	117	117	117	132	133	117	113	112
37.5°	109	108	108	108	107	107	108	107	107	116	100
40°	96	96	97	98	99	100	92	92	91	88	86
42.5°	118	116	115	113	112	110	115	112	112	113	108
45°	117	117	116	115	114	113	119	137	113	114	114
47.5°	118	116	115	114	112	111	119	111	110	112	110
50°	90	91	91	92	92	93	91	103	85	98	83
52.5°	104	102	101	100	99	98	106	100	98	98	105
55°	94	96	98	100	102	104	89	98	88	89	91
57.5°	65	66	66	66	67	67	68	67	80	81	66
60°	32	32	33	34	34	35	36	31	30	30	29
62.5°	33	32	32	32	31	31	35	48	30	51	49
65°	35	35	35	36	36	36	37	36	33	34	32
67.5°	24	24	24	24	24	24	18	15	17	30	14
70°	27	26	24	22	21	19	41	25	33	46	79
72.5°	23	22	21	21	20	20	27	72	104	229	409
75°	28	33	37	41	46	50	112	222	423	675	951
77.5°	96	115	134	153	172	191	324	496	740	1029	1400
80°	123	147	171	196	220	244	367	564	809	1145	1609
82.5°	104	128	152	176	200	225	344	535	752	1023	1526
85°	113	135	156	177	198	219	324	463	668	889	1286
87.5°	88	107	126	146	165	184	272	391	562	735	977
90°	84	98	112	125	139	153	226	322	447	601	732
92.5°	57	71	84	97	110	124	184	261	343	458	571
95°	69	79	88	98	107	117	160	207	273	377	470
97.5°	47	57	67	77	86	96	130	162	223	254	315
100°	37	45	53	61	69	77	95	116	142	178	216
102.5°	11	12	14	16	18	20	29	69	57	83	98
105°	8	9	9	9	9	9	12	13	20	21	23
107.5°	3	3	2	2	2	2	5	4	4	10	13
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11867
 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: P11867
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	466	466	466	466	466	466	466	466	466	466	466
2.5°	294	296	298	285	276	266	275	265	262	251	241
5°	656	659	670	653	648	641	641	621	610	631	578
7.5°	626	642	633	631	619	609	602	596	583	573	551
10°	781	787	794	795	796	798	781	767	758	731	704
12.5°	1129	1151	1151	1146	1144	1127	1119	1096	1081	1051	999
15°	1311	1315	1310	1305	1304	1291	1282	1263	1253	1229	1198
17.5°	964	977	980	960	946	943	939	929	919	921	889
20°	627	628	632	630	622	626	604	599	597	589	585
22.5°	417	404	409	417	405	404	413	388	386	385	383
25°	254	258	258	264	267	261	264	261	257	256	261
27.5°	175	173	178	176	175	179	178	174	174	177	200
30°	129	132	132	133	134	131	126	127	130	132	127
32.5°	123	120	112	110	113	125	107	101	109	106	103
35°	110	110	129	109	105	101	106	103	100	99	98
37.5°	101	102	101	96	94	96	89	88	89	88	87
40°	83	87	84	81	81	79	77	77	81	79	87
42.5°	108	110	105	106	109	104	105	102	103	104	108
45°	117	119	112	120	127	107	108	134	106	110	109
47.5°	111	116	114	109	112	112	115	112	108	108	110
50°	86	91	88	86	88	86	84	83	86	84	85
52.5°	105	108	109	104	109	103	99	97	99	105	101
55°	94	106	100	115	96	120	112	82	89	87	83
57.5°	86	83	83	83	92	81	81	89	69	70	64
60°	32	30	34	33	31	30	28	26	26	27	34
62.5°	30	33	45	42	40	30	30	29	47	32	35
65°	37	32	33	35	32	32	32	32	37	30	34
67.5°	20	18	20	25	23	15	31	16	32	14	17
70°	129	188	220	206	160	100	74	48	30	28	19
72.5°	630	903	1073	1085	902	623	361	179	92	46	25
75°	1344	1803	2180	2211	1874	1418	980	624	388	222	128
77.5°	1974	2727	3310	3425	2911	2163	1545	1067	748	517	360
80°	2351	3411	4277	4462	3717	2654	1822	1251	849	596	421
82.5°	2279	3455	4564	4828	3914	2666	1776	1205	854	592	408
85°	1847	2698	3468	3701	3033	2163	1546	1082	787	552	379
87.5°	1357	1794	2156	2241	1995	1615	1232	923	696	497	351
90°	948	1196	1376	1419	1325	1168	957	761	592	433	315
92.5°	667	786	894	942	919	843	741	613	462	342	235
95°	523	625	654	697	688	652	565	461	378	272	193
97.5°	375	440	493	512	509	469	412	336	269	205	164
100°	259	289	329	341	347	319	282	233	195	154	127
102.5°	124	150	160	173	167	161	140	99	81	64	42
105°	28	34	46	38	40	39	32	23	21	25	14
107.5°	6	6	11	6	6	6	5	8	15	5	4
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11867
 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: P11867
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	466	466	466	466	466	466	466	466	466	466	466
2.5°	233	217	209	202	194	186	179	171	163	156	148
5°	567	548	531	513	496	479	461	444	427	409	392
7.5°	540	526	502	477	453	428	404	379	355	330	306
10°	690	658	624	589	555	521	486	452	418	383	349
12.5°	971	943	894	844	795	746	696	647	598	548	499
15°	1178	1145	1097	1049	1000	952	904	856	807	759	711
17.5°	870	854	838	822	806	790	775	759	743	727	711
20°	574	562	562	562	561	561	561	561	560	560	560
22.5°	381	372	374	375	377	379	380	382	384	385	387
25°	253	256	256	256	256	256	255	255	255	255	255
27.5°	174	180	180	180	180	180	180	180	180	180	180
30°	125	128	129	130	132	133	134	135	137	138	139
32.5°	104	106	106	107	107	108	108	109	109	110	110
35°	98	103	103	104	104	104	105	105	105	106	106
37.5°	87	86	87	87	88	88	89	89	90	90	91
40°	75	75	75	75	75	75	74	74	74	74	74
42.5°	104	101	103	104	106	107	109	110	112	113	115
45°	112	151	149	146	144	141	139	136	134	131	129
47.5°	107	110	112	114	116	118	119	121	123	125	127
50°	79	83	83	83	84	84	84	84	85	85	85
52.5°	102	95	95	96	96	96	97	97	97	98	98
55°	89	84	84	83	83	83	82	82	82	81	81
57.5°	68	64	65	66	68	69	70	71	73	74	75
60°	37	28	28	28	27	27	27	27	26	26	26
62.5°	33	33	34	34	35	35	36	36	37	37	38
65°	35	38	37	37	36	36	35	35	34	34	33
67.5°	20	21	23	25	27	29	31	33	35	37	39
70°	22	20	22	24	27	29	31	33	36	38	40
72.5°	18	14	14	15	16	17	17	18	19	20	21
75°	65	41	38	36	33	31	28	26	23	21	18
77.5°	254	176	159	143	127	111	95	79	63	47	31
80°	279	185	166	147	127	108	89	70	50	31	12
82.5°	269	182	163	144	125	106	87	68	49	30	12
85°	260	178	161	144	128	111	94	77	61	44	27
87.5°	245	166	149	132	114	97	80	63	46	29	12
90°	207	169	151	134	116	99	81	64	46	29	11
92.5°	168	123	110	97	84	71	58	45	32	19	6
95°	159	127	117	106	96	85	75	64	54	43	33
97.5°	136	114	102	90	79	67	55	44	32	21	9
100°	114	108	99	90	81	72	63	54	45	36	27
102.5°	28	13	12	11	10	9	8	7	6	5	4
105°	14	10	11	12	13	14	15	16	17	18	19
107.5°	5	5	5	5	5	5	5	5	5	5	5
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11867
 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: P11867
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	466	466	466	466	466	466	466	466	466	466	466
2.5°	138	129	119	109	100	90	80	71	61	57	53
5°	365	339	312	286	259	233	206	180	153	139	125
7.5°	282	258	234	210	187	163	139	115	91	83	75
10°	317	285	254	222	190	158	127	95	63	59	55
12.5°	451	402	354	305	257	208	160	111	63	58	53
15°	642	572	503	433	364	294	225	155	86	78	70
17.5°	641	571	501	431	361	291	221	151	81	73	64
20°	512	463	415	366	318	269	221	172	124	113	102
22.5°	365	343	320	298	276	254	231	209	187	169	150
25°	248	241	234	227	221	214	207	200	193	174	155
27.5°	177	174	172	169	166	163	161	158	155	141	127
30°	139	140	140	140	141	141	141	142	142	131	121
32.5°	110	111	111	111	112	112	112	113	113	105	96
35°	106	106	107	107	107	107	108	108	108	103	97
37.5°	91	91	92	92	92	92	93	93	93	96	99
40°	73	71	70	68	67	65	64	62	61	66	71
42.5°	114	113	112	111	111	110	109	108	107	113	120
45°	127	125	123	121	118	116	114	112	110	119	128
47.5°	126	125	124	123	123	122	121	120	119	127	134
50°	92	99	106	113	119	126	133	140	147	146	146
52.5°	107	116	125	134	144	153	162	171	180	178	177
55°	88	94	101	108	114	121	128	134	141	141	141
57.5°	78	81	83	86	89	92	94	97	100	100	100
60°	28	29	31	32	34	35	37	38	40	45	51
62.5°	40	42	45	47	49	51	54	56	58	59	59
65°	36	39	42	45	48	51	54	57	60	59	58
67.5°	39	38	38	37	37	36	36	35	35	32	30
70°	39	38	37	36	35	34	33	32	31	32	34
72.5°	20	19	19	18	18	18	17	16	16	16	16
75°	19	20	21	22	22	23	24	25	26	26	26
77.5°	30	30	29	28	27	27	26	25	25	25	25
80°	13	13	14	15	15	16	17	17	18	21	25
82.5°	11	10	9	9	8	8	7	6	6	6	7
85°	25	22	20	17	15	12	10	7	5	5	5
87.5°	11	11	10	10	10	9	9	8	8	7	7
90°	10	9	8	7	7	6	5	4	3	3	2
92.5°	5	5	4	4	3	3	2	2	2	1	1
95°	31	29	27	25	22	20	18	16	14	13	11
97.5°	8	8	7	7	7	6	6	5	5	4	4
100°	24	21	18	15	12	9	6	3	0	4	8
102.5°	4	3	3	3	2	2	2	1	1	1	1
105°	17	16	14	12	11	9	7	6	4	4	4
107.5°	4	4	4	4	4	4	4	4	4	3	3
110°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P11867
 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: P11867
 CATALOG NUMBER: CEL7035SD

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°
0°	466	466	466	466	466	466	466
2.5°	49	45	40	36	32	28	24
5°	111	97	82	68	54	40	26
7.5°	67	59	50	42	34	26	18
10°	51	47	42	38	34	30	26
12.5°	48	43	38	33	28	23	18
15°	62	54	46	38	30	22	14
17.5°	56	48	39	31	23	14	6
20°	91	80	68	57	46	35	24
22.5°	132	114	95	77	59	40	22
25°	136	117	98	79	60	41	22
27.5°	113	99	84	70	56	42	28
30°	110	99	89	78	67	57	46
32.5°	88	80	71	63	55	46	38
35°	92	87	81	76	71	65	60
37.5°	102	105	108	111	114	117	120
40°	76	81	86	91	96	101	106
42.5°	126	132	139	145	151	158	164
45°	137	146	156	165	174	183	192
47.5°	142	150	157	165	173	180	188
50°	145	145	144	144	143	143	142
52.5°	175	174	172	171	169	168	166
55°	141	141	142	142	142	142	142
57.5°	99	99	99	99	98	98	98
60°	56	61	67	72	77	83	88
62.5°	60	61	61	62	63	63	64
65°	57	56	56	55	54	53	52
67.5°	27	25	22	20	17	15	12
70°	35	37	38	40	41	43	44
72.5°	17	17	17	17	18	18	18
75°	27	27	27	27	28	28	28
77.5°	25	25	25	26	26	26	26
80°	28	31	35	38	41	45	48
82.5°	7	8	9	9	10	10	11
85°	5	5	6	6	6	6	6
87.5°	6	5	5	4	3	3	2
90°	2	2	1	1	1	0	0
92.5°	1	1	1	0	0	0	0
95°	10	9	7	6	5	3	2
97.5°	3	3	3	2	2	1	1
100°	11	15	19	23	26	30	34
102.5°	1	1	0	0	0	0	0
105°	4	4	4	4	4	4	4
107.5°	2	2	2	1	1	0	0
110°	0	0	0	0	0	0	0



TEST NUMBER: P11867
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)