

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: CORELITE

Report Number: P393801

Luminaire Tested: **I3-CL-80L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-CL-80L840-1D-UNV-STD-W-4  
Description: CORELITE I3, CLEAR TOP COVER  
8000 LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

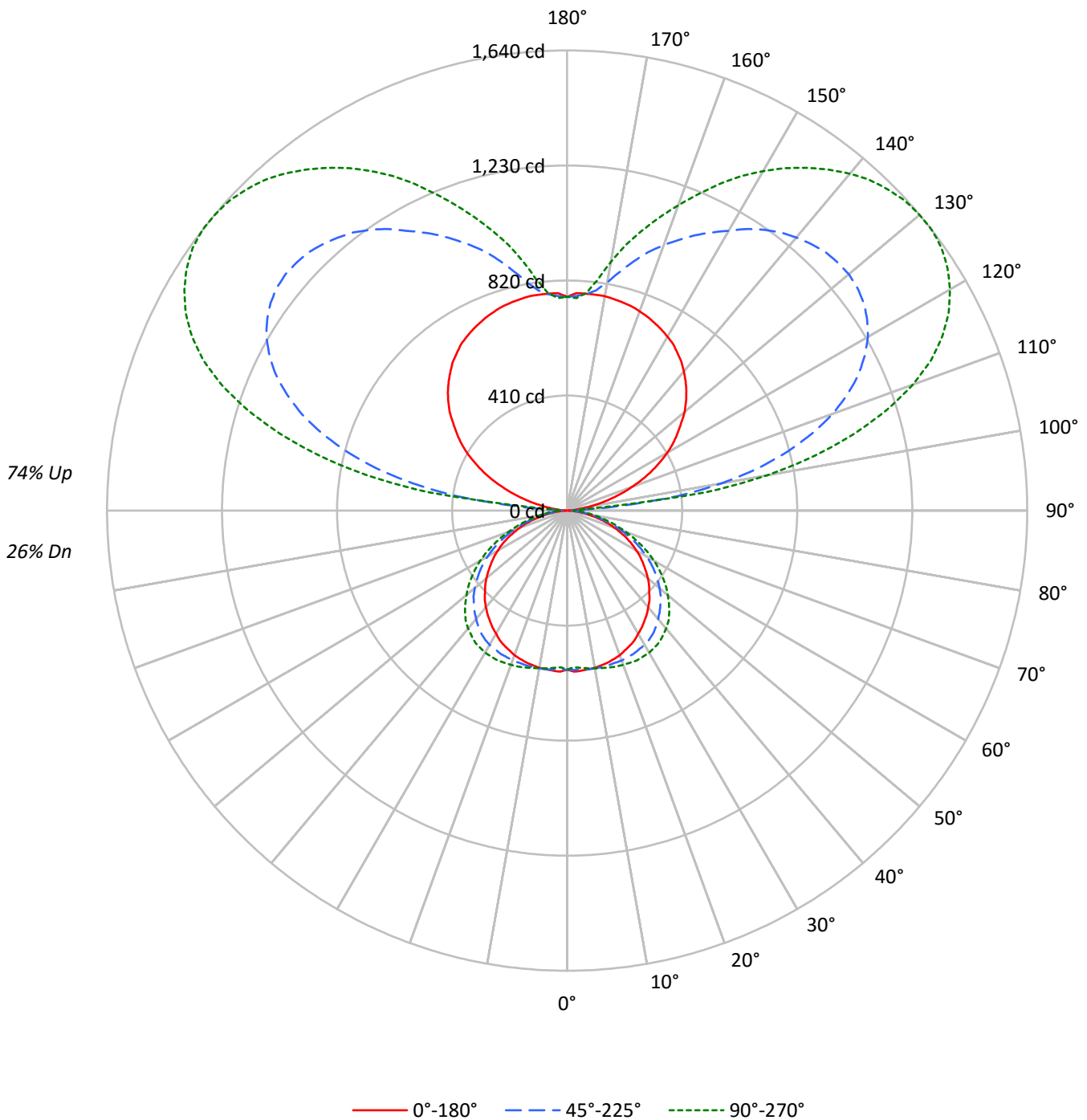
Lumens per Lamp: N/A  
Luminaire Lumens: 7468.0 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

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

	0°	45°	90°
0°	3115	3115	3115
5°	3148	3066	3017
10°	3150	3043	3008
15°	3155	3032	3024
20°	3160	3033	3051
25°	3155	3036	3091
30°	3137	3041	3113
35°	3130	3024	3116
40°	3118	2959	3076
45°	3087	2887	2999
50°	3058	2793	2865
55°	2996	2652	2701
60°	2922	2466	2493
65°	2802	2214	2210
70°	2603	1885	1871
75°	2247	1500	1503
80°	1742	1065	1101
85°	1023	659	738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.2	0.7
10°-20°	161.1	2.2
20°-30°	258.3	3.5
30°-40°	330.3	4.4
40°-50°	360.2	4.8
50°-60°	337.5	4.5
60°-70°	261.8	3.5
70°-80°	150.1	2.0
80°-90°	48.0	0.6
90°-100°	192.6	2.6
100°-110°	748.7	10.0
110°-120°	1019.4	13.6
120°-130°	1058.1	14.2
130°-140°	938.6	12.6
140°-150°	728.3	9.8
150°-160°	486.0	6.5
160°-170°	259.0	3.5
170°-180°	75.8	1.0
0°-30°	473.6	6.3
0°-40°	803.9	10.8
0°-60°	1501.5	20.1
0°-90°	1961.4	26.3
90°-120°	1960.7	26.3
90°-150°	4685.7	62.7
90°-180°	5507.0	73.7
0°-180°	7468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	573	567	569	567	563	55
15°	561	559	571	579	579	158
25°	530	534	563	583	589	244
35°	480	490	534	563	573	301
45°	414	432	470	500	514	320
55°	332	350	382	408	416	297
65°	235	245	267	285	291	232
75°	123	129	141	155	159	131
85°	24	28	42	54	56	29
90°	2	6	14	20	24	3
95°	24	137	187	38	36	32
105°	159	480	814	967	1059	169
115°	332	742	1146	1346	1477	327
125°	480	874	1290	1515	1630	430
135°	601	920	1302	1527	1618	463
145°	685	920	1222	1419	1491	429
155°	738	870	1083	1228	1284	341
165°	768	800	920	1007	1033	217
175°	776	772	774	778	778	74
180°	762	762	762	762	762	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7
2.5°	574.7	572.7	572.7	568.7	568.7	566.7	566.7	566.7	566.7	566.7	568.7
5°	572.7	572.7	570.7	568.7	568.7	566.7	566.7	566.7	566.7	566.7	568.7
7.5°	570.7	570.7	568.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	570.7
10°	568.7	568.7	566.7	564.7	564.7	564.7	564.7	566.7	566.7	566.7	570.7
12.5°	564.7	562.7	562.7	560.7	560.7	560.7	562.7	562.7	564.7	566.7	570.7
15°	560.7	560.7	558.7	556.7	558.7	558.7	558.7	560.7	562.7	564.7	570.7
17.5°	554.6	554.6	552.6	552.6	552.6	554.6	554.6	556.7	560.7	564.7	568.7
20°	548.6	546.6	546.6	546.6	548.6	548.6	550.6	554.6	556.7	562.7	568.7
22.5°	538.6	540.6	538.6	538.6	540.6	542.6	544.6	548.6	552.6	558.7	564.7
25°	530.5	530.5	530.5	530.5	534.5	534.5	538.6	542.6	548.6	554.6	562.7
27.5°	520.5	520.5	520.5	522.5	524.5	526.5	528.5	534.5	540.6	548.6	556.7
30°	506.4	506.4	506.4	506.4	512.4	514.5	518.5	526.5	532.5	542.6	552.6
32.5°	494.4	494.4	494.4	496.4	500.4	502.4	506.4	516.5	524.5	534.5	544.6
35°	480.3	480.3	482.3	482.3	488.3	490.3	494.4	502.4	510.4	522.5	534.5
37.5°	466.2	466.2	468.2	470.2	474.3	478.3	482.3	490.3	498.4	508.4	520.5
40°	450.1	450.1	452.2	454.2	460.2	464.2	468.2	476.3	484.3	494.4	504.4
42.5°	434.1	434.1	436.1	438.1	444.1	448.1	452.2	462.2	470.2	480.3	488.3
45°	414.0	416.0	418.0	422.0	428.0	432.1	436.1	444.1	454.2	462.2	470.2
47.5°	395.9	397.9	399.9	403.9	410.0	414.0	418.0	426.0	434.1	442.1	452.2
50°	375.8	377.8	379.8	383.8	389.9	393.9	397.9	405.9	414.0	420.0	430.1
52.5°	353.7	355.7	357.7	361.7	369.8	371.8	375.8	383.8	389.9	397.9	405.9
55°	331.6	333.6	335.6	339.6	345.6	349.7	351.7	359.7	365.7	373.8	381.8
57.5°	309.5	311.5	313.5	317.5	321.5	325.6	327.6	333.6	341.6	347.7	355.7
60°	285.4	287.4	289.4	291.4	297.4	299.4	301.4	307.5	313.5	321.5	327.6
62.5°	261.2	261.2	263.3	265.3	271.3	273.3	275.3	279.3	287.4	291.4	297.4
65°	235.1	235.1	237.1	239.1	243.2	245.2	247.2	251.2	257.2	261.2	267.3
67.5°	207.0	207.0	209.0	211.0	215.0	217.0	217.0	223.1	227.1	231.1	235.1
70°	180.9	180.9	182.9	182.9	184.9	186.9	188.9	192.9	194.9	201.0	203.0
72.5°	152.7	152.7	152.7	152.7	156.7	156.7	158.8	162.8	164.8	168.8	172.8
75°	122.6	122.6	124.6	124.6	126.6	128.6	130.6	132.6	136.7	138.7	140.7
77.5°	96.5	94.5	96.5	98.5	100.5	100.5	102.5	104.5	106.5	110.5	112.5
80°	68.3	68.3	68.3	70.3	72.3	72.3	74.4	76.4	78.4	82.4	84.4
82.5°	44.2	44.2	46.2	46.2	48.2	50.2	50.2	52.2	54.3	58.3	60.3
85°	24.1	24.1	24.1	26.1	28.1	28.1	30.1	32.2	36.2	38.2	42.2
87.5°	8.0	8.0	10.0	12.1	14.1	14.1	16.1	18.1	20.1	24.1	26.1
90°	2.0	2.0	2.0	4.0	4.0	6.0	6.0	8.0	10.0	12.1	14.1
92.5°	8.0	14.1	22.1	32.2	30.1	32.2	22.1	14.1	14.1	14.1	16.1
95°	24.1	36.2	58.3	92.4	120.6	136.7	150.7	164.8	192.9	194.9	186.9
97.5°	48.2	66.3	106.5	150.7	201.0	227.1	247.2	289.4	333.6	361.7	395.9
100°	80.4	106.5	158.8	219.0	277.3	311.5	343.6	403.9	458.2	506.4	558.7
102.5°	118.6	148.7	213.0	287.4	359.7	397.9	432.1	502.4	576.8	641.1	697.3
105°	158.8	192.9	269.3	353.7	436.1	480.3	522.5	598.9	677.2	747.6	813.9
107.5°	203.0	239.1	321.5	416.0	508.4	558.7	604.9	687.3	769.7	846.0	916.4
110°	245.2	285.4	371.8	474.3	578.8	629.0	675.2	765.7	852.1	932.4	1006.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	289.4	331.6	418.0	530.5	637.0	689.3	737.5	834.0	924.4	1006.8	1081.2
115°	331.6	371.8	462.2	578.8	687.3	741.5	793.8	892.3	986.7	1069.1	1145.5
117.5°	371.8	410.0	502.4	619.0	731.5	785.7	838.0	940.5	1034.9	1121.3	1195.7
120°	412.0	446.1	546.6	653.1	767.7	821.9	876.2	978.7	1075.1	1161.5	1237.9
122.5°	448.1	480.3	578.8	683.3	795.8	852.1	904.3	1008.8	1107.3	1193.7	1268.0
125°	480.3	510.4	608.9	707.4	819.9	874.2	928.4	1030.9	1129.4	1213.8	1290.2
127.5°	512.4	542.6	631.0	731.5	836.0	892.3	944.5	1047.0	1143.5	1229.9	1304.2
130°	546.6	568.7	653.1	753.6	852.1	904.3	958.6	1057.0	1151.5	1235.9	1310.2
132.5°	574.7	594.8	675.2	771.7	864.1	914.4	962.6	1061.1	1155.5	1235.9	1308.2
135°	600.9	616.9	691.3	787.8	874.2	920.4	966.6	1059.1	1151.5	1231.9	1302.2
137.5°	625.0	641.1	705.4	799.8	882.2	922.4	966.6	1053.0	1141.4	1221.8	1288.1
140°	647.1	659.1	717.4	805.8	886.2	924.4	962.6	1043.0	1125.4	1203.7	1270.1
142.5°	669.2	679.2	727.5	809.9	888.2	924.4	960.6	1030.9	1107.3	1183.6	1250.0
145°	685.3	695.3	735.5	811.9	886.2	920.4	952.5	1018.9	1087.2	1157.5	1221.8
147.5°	703.4	711.4	743.5	807.9	880.2	912.4	942.5	1002.8	1065.1	1129.4	1189.7
150°	715.4	723.5	747.6	803.8	870.1	900.3	930.4	986.7	1043.0	1099.2	1151.5
152.5°	727.5	733.5	753.6	797.8	858.1	886.2	914.4	968.6	1020.9	1071.1	1117.3
155°	737.5	743.5	757.6	793.8	844.0	870.1	896.3	948.5	996.8	1041.0	1083.2
157.5°	747.6	751.6	761.6	787.8	827.9	852.1	876.2	922.4	966.6	1010.8	1045.0
160°	755.6	757.6	765.7	785.7	813.9	832.0	854.1	896.3	936.5	974.6	1006.8
162.5°	763.6	763.6	769.7	781.7	801.8	813.9	830.0	866.1	902.3	936.5	966.6
165°	767.7	767.7	771.7	779.7	791.8	799.8	809.9	834.0	862.1	892.3	920.4
167.5°	771.7	771.7	773.7	777.7	785.7	789.8	793.8	809.9	827.9	850.1	872.2
170°	775.7	773.7	773.7	777.7	779.7	781.7	783.7	791.8	799.8	813.9	825.9
172.5°	775.7	773.7	773.7	775.7	775.7	775.7	775.7	777.7	779.7	787.8	791.8
175°	775.7	773.7	773.7	773.7	773.7	771.7	771.7	771.7	771.7	771.7	773.7
177.5°	775.7	773.7	771.7	771.7	769.7	769.7	767.7	767.7	765.7	765.7	765.7
180°	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7
2.5°	568.7	568.7	566.7	566.7	564.7	564.7	562.7	560.7	558.7	558.7
5°	570.7	568.7	566.7	566.7	566.7	564.7	564.7	564.7	562.7	562.7
7.5°	570.7	570.7	570.7	568.7	568.7	568.7	568.7	568.7	566.7	566.7
10°	572.7	572.7	572.7	572.7	572.7	572.7	572.7	570.7	570.7	570.7
12.5°	572.7	572.7	572.7	574.7	574.7	574.7	574.7	574.7	574.7	574.7
15°	574.7	574.7	576.8	576.8	578.8	578.8	580.8	580.8	580.8	578.8
17.5°	572.7	574.7	576.8	578.8	580.8	580.8	582.8	582.8	582.8	582.8
20°	572.7	576.8	578.8	580.8	582.8	582.8	584.8	586.8	586.8	584.8
22.5°	570.7	574.7	576.8	580.8	582.8	582.8	586.8	586.8	586.8	586.8
25°	568.7	572.7	576.8	580.8	582.8	582.8	586.8	586.8	588.8	588.8
27.5°	564.7	568.7	574.7	578.8	580.8	582.8	584.8	586.8	586.8	586.8
30°	558.7	564.7	570.7	574.7	576.8	578.8	580.8	582.8	584.8	584.8
32.5°	550.6	556.7	562.7	568.7	570.7	572.7	576.8	578.8	578.8	578.8
35°	542.6	548.6	554.6	560.7	562.7	564.7	568.7	570.7	572.7	572.7
37.5°	530.5	536.6	542.6	548.6	550.6	554.6	558.7	560.7	560.7	560.7
40°	512.4	522.5	530.5	536.6	538.6	542.6	544.6	548.6	548.6	548.6
42.5°	496.4	504.4	510.4	518.5	520.5	526.5	530.5	532.5	534.5	534.5
45°	478.3	486.3	492.3	498.4	500.4	504.4	508.4	510.4	512.4	514.5
47.5°	460.2	466.2	472.3	478.3	480.3	484.3	488.3	490.3	492.3	492.3
50°	438.1	444.1	450.1	456.2	458.2	462.2	464.2	466.2	468.2	468.2
52.5°	414.0	420.0	426.0	432.1	434.1	436.1	440.1	442.1	444.1	444.1
55°	389.9	395.9	399.9	405.9	407.9	410.0	412.0	416.0	418.0	416.0
57.5°	361.7	367.8	371.8	377.8	379.8	381.8	383.8	385.8	387.8	387.8
60°	331.6	337.6	343.6	347.7	349.7	351.7	353.7	355.7	357.7	357.7
62.5°	301.4	307.5	311.5	317.5	319.5	319.5	321.5	323.5	325.6	325.6
65°	271.3	277.3	279.3	285.4	285.4	287.4	289.4	291.4	291.4	291.4
67.5°	239.1	245.2	247.2	251.2	251.2	253.2	255.2	257.2	257.2	257.2
70°	209.0	211.0	215.0	217.0	219.0	219.0	221.1	223.1	225.1	223.1
72.5°	176.8	178.9	182.9	184.9	184.9	186.9	186.9	188.9	190.9	190.9
75°	144.7	148.7	150.7	152.7	154.7	154.7	156.7	158.8	158.8	158.8
77.5°	114.5	118.6	120.6	122.6	124.6	124.6	126.6	126.6	128.6	126.6
80°	88.4	90.4	92.4	94.5	96.5	96.5	98.5	100.5	100.5	100.5
82.5°	64.3	66.3	70.3	72.3	72.3	72.3	76.4	76.4	78.4	76.4
85°	44.2	46.2	50.2	52.2	54.3	54.3	54.3	56.3	58.3	56.3
87.5°	28.1	32.2	34.2	36.2	36.2	36.2	38.2	40.2	40.2	40.2
90°	16.1	16.1	18.1	20.1	20.1	22.1	22.1	24.1	24.1	24.1
92.5°	16.1	18.1	18.1	18.1	20.1	20.1	20.1	22.1	22.1	22.1
95°	136.7	98.5	56.3	44.2	38.2	38.2	36.2	38.2	36.2	36.2
97.5°	414.0	448.1	464.2	486.3	498.4	496.4	488.3	496.4	490.3	496.4
100°	588.8	621.0	645.1	651.1	663.2	669.2	691.3	707.4	715.4	725.5
102.5°	731.5	769.7	797.8	813.9	825.9	834.0	860.1	884.2	896.3	904.3
105°	862.1	902.3	936.5	952.5	966.6	974.6	1002.8	1030.9	1049.0	1059.1
107.5°	966.6	1012.8	1049.0	1073.1	1087.2	1101.3	1135.4	1163.5	1185.7	1195.7
110°	1061.1	1107.3	1145.5	1173.6	1189.7	1203.7	1241.9	1274.1	1298.2	1310.2





TEST NUMBER: P393801

CATALOG NUMBER: I3-CL-80L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1139.4	1189.7	1227.9	1258.0	1274.1	1294.2	1330.3	1366.5	1390.6	1404.7
115°	1203.7	1256.0	1296.2	1328.3	1346.4	1364.5	1406.7	1442.9	1467.0	1477.0
117.5°	1258.0	1310.2	1352.4	1384.6	1404.7	1424.8	1467.0	1499.1	1525.3	1533.3
120°	1302.2	1354.5	1396.7	1432.8	1452.9	1471.0	1511.2	1545.4	1569.5	1575.5
122.5°	1332.4	1386.6	1430.8	1471.0	1489.1	1507.2	1545.4	1579.5	1601.6	1607.7
125°	1354.5	1410.7	1454.9	1497.1	1515.2	1533.3	1569.5	1603.6	1621.7	1629.8
127.5°	1368.5	1424.8	1473.0	1513.2	1533.3	1549.4	1585.6	1615.7	1633.8	1639.8
130°	1372.5	1430.8	1479.1	1521.3	1539.3	1555.4	1589.6	1619.7	1635.8	1639.8
132.5°	1372.5	1428.8	1479.1	1519.2	1537.3	1553.4	1585.6	1613.7	1629.8	1633.8
135°	1364.5	1418.8	1469.0	1509.2	1527.3	1543.4	1575.5	1599.6	1615.7	1617.7
137.5°	1350.4	1402.7	1450.9	1491.1	1509.2	1525.3	1553.4	1579.5	1593.6	1597.6
140°	1332.4	1380.6	1428.8	1467.0	1485.1	1499.1	1527.3	1549.4	1563.5	1567.5
142.5°	1308.2	1356.5	1400.7	1438.9	1452.9	1469.0	1493.1	1515.2	1527.3	1531.3
145°	1282.1	1328.3	1368.5	1402.7	1418.8	1432.8	1454.9	1475.0	1487.1	1491.1
147.5°	1248.0	1294.2	1332.4	1364.5	1378.6	1392.6	1412.7	1430.8	1442.9	1446.9
150°	1205.8	1248.0	1288.1	1318.3	1332.4	1346.4	1366.5	1382.6	1394.7	1396.7
152.5°	1163.5	1203.7	1237.9	1268.0	1282.1	1296.2	1314.3	1330.3	1344.4	1344.4
155°	1123.4	1157.5	1189.7	1215.8	1227.9	1239.9	1258.0	1272.1	1284.1	1284.1
157.5°	1081.2	1113.3	1139.4	1163.5	1173.6	1183.6	1199.7	1211.8	1221.8	1219.8
160°	1041.0	1065.1	1089.2	1109.3	1119.3	1127.4	1139.4	1149.5	1159.5	1157.5
162.5°	996.8	1018.9	1039.0	1053.0	1061.1	1067.1	1079.1	1089.2	1095.2	1095.2
165°	946.5	966.6	984.7	998.8	1006.8	1010.8	1020.9	1026.9	1032.9	1032.9
167.5°	894.3	910.3	926.4	938.5	946.5	950.5	960.6	964.6	972.6	970.6
170°	842.0	854.1	866.1	876.2	880.2	884.2	892.3	896.3	900.3	900.3
172.5°	799.8	803.8	809.9	817.9	817.9	819.9	823.9	825.9	827.9	827.9
175°	775.7	777.7	777.7	777.7	777.7	777.7	779.7	777.7	779.7	777.7
177.5°	765.7	765.7	763.6	763.6	761.6	763.6	761.6	759.6	759.6	757.6
180°	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6

(END OF REPORT)