

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: P393836

Luminaire Tested: **I3-UL-80L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-UL-80L835-1D-UNV-STD-W-4  
Description: CORELITE I3, OPEN TOP  
8000 LUMENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

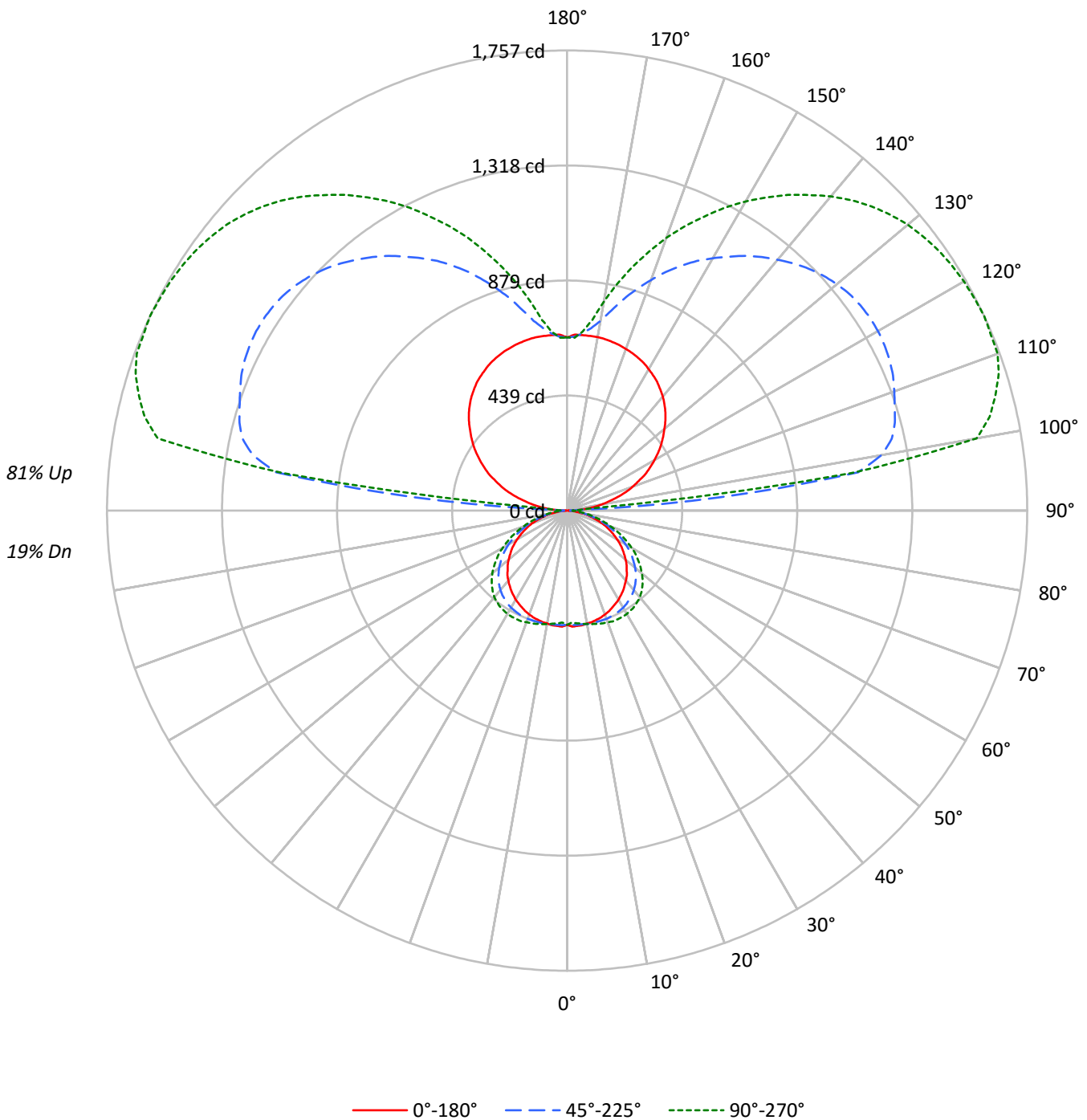
Lumens per Lamp: N/A  
Luminaire Lumens: 8002.1 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16				
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11				
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9				
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8				
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7				
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4				

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

	0°	45°	90°
0°	2395	2395	2395
5°	2429	2361	2315
10°	2425	2345	2318
15°	2430	2336	2339
20°	2431	2346	2366
25°	2427	2352	2401
30°	2431	2354	2425
35°	2428	2343	2436
40°	2418	2326	2422
45°	2397	2277	2369
50°	2376	2203	2281
55°	2333	2096	2151
60°	2262	1944	1979
65°	2162	1731	1765
70°	2043	1502	1489
75°	1770	1177	1194
80°	1408	847	864
85°	836	494	569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	0.5
10°-20°	124.3	1.6
20°-30°	200.1	2.5
30°-40°	257.4	3.2
40°-50°	282.8	3.5
50°-60°	265.8	3.3
60°-70°	206.5	2.6
70°-80°	118.4	1.5
80°-90°	38.0	0.5
90°-100°	511.5	6.4
100°-110°	1215.6	15.2
110°-120°	1221.1	15.3
120°-130°	1119.9	14.0
130°-140°	936.4	11.7
140°-150°	702.8	8.8
150°-160°	457.5	5.7
160°-170°	235.6	2.9
170°-180°	66.7	0.8
0°-30°	366.1	4.6
0°-40°	623.6	7.8
0°-60°	1172.1	14.6
0°-90°	1535.0	19.2
90°-120°	2948.2	36.8
90°-150°	5707.3	71.3
90°-180°	6467.0	80.8
0°-180°	8002.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	442	438	438	436	432	42
15°	432	430	440	446	448	122
25°	408	412	436	452	458	188
35°	373	383	414	440	448	233
45°	322	337	371	398	406	249
55°	258	272	302	323	331	230
65°	181	191	209	227	233	180
75°	97	101	110	122	126	103
85°	20	24	32	41	43	23
90°	2	6	12	18	20	6
95°	69	572	588	79	67	69
105°	199	767	1296	1597	1692	211
115°	329	864	1359	1653	1757	324
125°	438	901	1367	1637	1732	391
135°	530	897	1306	1552	1643	409
145°	600	860	1187	1394	1471	375
155°	643	789	1031	1181	1238	297
165°	667	712	836	927	962	189
175°	672	670	678	686	686	64
180°	661	661	661	661	661	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	443.7	441.8	439.8	439.8	437.8	437.8	437.8	435.8	435.8	435.8	437.8
5°	441.8	441.8	439.8	437.8	437.8	437.8	435.8	435.8	435.8	435.8	437.8
7.5°	441.8	439.8	437.8	437.8	435.8	435.8	435.8	435.8	435.8	435.8	437.8
10°	437.8	437.8	435.8	435.8	433.9	435.8	435.8	435.8	435.8	435.8	439.8
12.5°	435.8	435.8	433.9	431.9	431.9	431.9	433.9	433.9	433.9	435.8	439.8
15°	431.9	431.9	429.9	429.9	429.9	429.9	431.9	431.9	433.9	435.8	439.8
17.5°	427.9	427.9	426.0	426.0	426.0	427.9	427.9	429.9	431.9	435.8	439.8
20°	422.0	422.0	422.0	422.0	422.0	424.0	424.0	426.0	429.9	433.9	439.8
22.5°	416.1	416.1	416.1	416.1	416.1	418.1	420.1	424.0	426.0	431.9	437.8
25°	408.2	408.2	408.2	408.2	410.2	412.2	414.1	418.1	422.0	427.9	435.8
27.5°	400.3	402.3	402.3	402.3	404.3	406.3	408.2	412.2	418.1	426.0	431.9
30°	392.5	392.5	392.5	394.4	396.4	398.4	402.3	406.3	412.2	420.1	427.9
32.5°	382.6	382.6	384.6	384.6	388.5	390.5	394.4	400.3	406.3	414.1	422.0
35°	372.7	372.7	372.7	376.7	378.6	382.6	384.6	390.5	398.4	406.3	414.1
37.5°	360.9	362.9	362.9	364.8	368.8	372.7	374.7	382.6	390.5	398.4	406.3
40°	349.1	351.0	351.0	353.0	358.9	360.9	364.8	372.7	378.6	388.5	396.4
42.5°	337.2	337.2	339.2	341.2	347.1	349.1	353.0	360.9	368.8	376.7	384.6
45°	321.5	323.4	325.4	327.4	333.3	337.2	341.2	347.1	355.0	362.9	370.8
47.5°	307.6	307.6	309.6	313.6	319.5	323.4	325.4	333.3	339.2	347.1	355.0
50°	291.9	293.8	293.8	297.8	303.7	307.6	309.6	317.5	323.4	331.3	339.2
52.5°	274.1	276.1	278.1	282.0	287.9	291.9	293.8	299.8	305.7	313.6	319.5
55°	258.3	260.3	260.3	264.3	270.2	272.2	276.1	280.0	287.9	293.8	301.7
57.5°	240.6	242.6	242.6	246.5	250.5	254.4	256.4	262.3	268.2	274.1	280.0
60°	220.9	222.8	224.8	226.8	230.7	234.7	236.7	240.6	246.5	252.4	258.3
62.5°	201.2	203.1	205.1	207.1	211.0	213.0	215.0	220.9	224.8	230.7	234.7
65°	181.4	183.4	185.4	187.4	189.3	191.3	193.3	197.2	201.2	207.1	209.0
67.5°	161.7	163.7	163.7	165.7	167.6	169.6	171.6	175.5	177.5	183.4	185.4
70°	142.0	142.0	142.0	144.0	144.0	145.9	147.9	151.9	153.8	157.8	161.7
72.5°	118.3	120.3	120.3	120.3	122.3	124.2	126.2	128.2	130.2	132.1	136.1
75°	96.6	98.6	96.6	98.6	100.6	100.6	102.5	104.5	106.5	108.5	110.4
77.5°	76.9	74.9	76.9	76.9	78.9	78.9	78.9	80.9	84.8	84.8	88.7
80°	55.2	55.2	55.2	55.2	57.2	57.2	59.2	59.2	63.1	65.1	67.1
82.5°	35.5	35.5	37.5	37.5	37.5	39.4	39.4	41.4	43.4	45.4	47.3
85°	19.7	19.7	19.7	21.7	21.7	23.7	23.7	25.6	27.6	29.6	31.6
87.5°	5.9	7.9	9.9	9.9	11.8	11.8	13.8	13.8	17.7	19.7	21.7
90°	2.0	2.0	3.9	3.9	3.9	5.9	5.9	7.9	7.9	9.9	11.8
92.5°	33.5	78.9	163.7	244.5	211.0	197.2	118.3	35.5	31.6	33.5	33.5
95°	69.0	130.2	238.6	386.5	500.9	571.9	619.2	710.0	802.7	786.9	587.7
97.5°	100.6	167.6	287.9	424.0	581.8	662.6	723.8	832.2	950.6	1049.2	1120.2
100°	132.1	201.2	329.3	471.3	617.3	690.2	761.2	909.1	1025.5	1124.1	1218.8
102.5°	165.7	234.7	366.8	514.7	658.7	729.7	798.7	928.9	1059.0	1177.4	1270.0
105°	199.2	270.2	400.3	552.2	696.2	767.2	834.2	958.4	1078.7	1189.2	1295.7
107.5°	234.7	301.7	429.9	581.8	725.7	796.7	863.8	988.0	1104.4	1214.8	1311.5
110°	266.2	331.3	459.5	609.4	753.3	824.3	891.4	1015.6	1130.0	1234.5	1329.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	295.8	358.9	487.1	633.0	775.0	846.0	911.1	1035.4	1149.7	1252.3	1347.0
115°	329.3	384.6	514.7	654.7	794.8	863.8	928.9	1051.1	1165.5	1266.1	1358.8
117.5°	357.0	410.2	538.4	672.5	810.5	877.6	940.7	1063.0	1175.4	1276.0	1366.7
120°	384.6	433.9	560.1	688.3	822.4	887.5	950.6	1070.9	1183.3	1281.9	1370.6
122.5°	412.2	457.5	577.8	704.0	832.2	897.3	958.4	1076.8	1187.2	1283.8	1370.6
125°	437.8	477.3	593.6	715.9	838.1	901.3	960.4	1076.8	1185.2	1279.9	1366.7
127.5°	461.5	498.9	605.4	727.7	842.1	903.2	960.4	1072.8	1181.3	1274.0	1358.8
130°	485.1	518.7	617.3	733.6	846.0	901.3	956.5	1064.9	1171.4	1264.1	1345.0
132.5°	508.8	540.4	627.1	739.5	848.0	901.3	952.5	1057.1	1159.6	1250.3	1327.2
135°	530.5	556.1	637.0	743.5	846.0	897.3	944.6	1043.2	1141.9	1230.6	1305.5
137.5°	550.2	571.9	644.9	745.5	844.1	891.4	938.7	1027.5	1120.2	1206.9	1279.9
140°	568.0	587.7	648.8	745.5	836.2	883.5	926.9	1011.7	1096.5	1179.3	1250.3
142.5°	583.7	601.5	654.7	741.5	828.3	873.6	915.1	995.9	1072.8	1151.7	1220.7
145°	599.5	613.3	658.7	739.5	818.4	859.8	899.3	976.2	1051.1	1122.1	1187.2
147.5°	611.4	625.2	662.6	731.7	806.6	844.1	881.5	954.5	1023.5	1090.6	1149.7
150°	623.2	635.0	664.6	723.8	792.8	826.3	859.8	928.9	995.9	1057.1	1112.3
152.5°	635.0	642.9	670.5	715.9	777.0	808.6	842.1	903.2	964.4	1021.6	1074.8
155°	642.9	648.8	672.5	708.0	761.2	788.8	816.5	873.6	928.9	982.1	1031.4
157.5°	650.8	656.7	674.5	702.1	743.5	769.1	792.8	842.1	893.4	940.7	986.1
160°	656.7	660.7	674.5	698.1	727.7	745.5	767.2	812.5	855.9	897.3	936.8
162.5°	662.6	664.6	674.5	692.2	713.9	725.7	741.5	777.0	816.5	852.0	887.5
165°	666.6	668.5	674.5	688.3	702.1	711.9	719.8	745.5	775.0	806.6	836.2
167.5°	670.5	670.5	674.5	684.3	692.2	698.1	704.0	717.8	737.6	761.2	782.9
170°	672.5	672.5	674.5	680.4	686.3	688.3	692.2	700.1	710.0	721.8	735.6
172.5°	672.5	672.5	672.5	676.4	678.4	678.4	678.4	682.4	688.3	696.2	702.1
175°	672.5	670.5	670.5	672.5	670.5	670.5	670.5	670.5	672.5	676.4	678.4
177.5°	672.5	670.5	668.5	668.5	666.6	666.6	664.6	664.6	664.6	664.6	664.6
180°	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	437.8	437.8	435.8	433.9	433.9	433.9	431.9	429.9	427.9	427.9
5°	437.8	437.8	435.8	435.8	435.8	435.8	433.9	433.9	431.9	431.9
7.5°	439.8	437.8	437.8	437.8	437.8	437.8	437.8	437.8	435.8	435.8
10°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
12.5°	441.8	441.8	441.8	441.8	443.7	443.7	443.7	443.7	443.7	443.7
15°	441.8	443.7	445.7	445.7	445.7	447.7	447.7	447.7	447.7	447.7
17.5°	443.7	445.7	447.7	447.7	449.6	449.6	451.6	451.6	451.6	451.6
20°	443.7	445.7	447.7	449.6	451.6	451.6	453.6	455.6	455.6	453.6
22.5°	441.8	445.7	447.7	449.6	451.6	453.6	455.6	457.5	457.5	457.5
25°	439.8	443.7	447.7	451.6	451.6	453.6	457.5	457.5	457.5	457.5
27.5°	437.8	441.8	445.7	449.6	451.6	453.6	455.6	457.5	457.5	457.5
30°	433.9	439.8	443.7	447.7	449.6	451.6	453.6	455.6	455.6	455.6
32.5°	427.9	433.9	437.8	443.7	445.7	447.7	449.6	451.6	451.6	451.6
35°	422.0	427.9	431.9	437.8	439.8	441.8	445.7	445.7	447.7	447.7
37.5°	412.2	420.1	424.0	429.9	431.9	433.9	437.8	439.8	439.8	439.8
40°	402.3	410.2	414.1	420.1	422.0	424.0	427.9	429.9	431.9	431.9
42.5°	390.5	398.4	402.3	408.2	410.2	412.2	416.1	418.1	420.1	420.1
45°	378.6	384.6	388.5	394.4	398.4	398.4	402.3	404.3	406.3	406.3
47.5°	362.9	368.8	372.7	378.6	382.6	384.6	386.5	388.5	390.5	390.5
50°	345.1	351.0	357.0	360.9	364.8	364.8	368.8	370.8	372.7	372.7
52.5°	327.4	331.3	337.2	343.1	345.1	347.1	349.1	351.0	353.0	353.0
55°	307.6	311.6	317.5	321.5	323.4	325.4	327.4	329.3	331.3	331.3
57.5°	286.0	289.9	295.8	299.8	301.7	303.7	305.7	307.6	309.6	309.6
60°	262.3	266.2	272.2	276.1	278.1	278.1	282.0	284.0	284.0	284.0
62.5°	238.6	242.6	246.5	250.5	252.4	254.4	256.4	258.3	258.3	258.3
65°	215.0	218.9	222.8	224.8	226.8	226.8	228.8	230.7	232.7	232.7
67.5°	189.3	193.3	197.2	199.2	201.2	201.2	203.1	205.1	205.1	205.1
70°	163.7	165.7	169.6	171.6	173.5	173.5	177.5	177.5	177.5	177.5
72.5°	138.0	140.0	144.0	145.9	147.9	147.9	149.9	151.9	151.9	151.9
75°	114.4	116.4	118.3	122.3	122.3	122.3	124.2	126.2	126.2	126.2
77.5°	90.7	92.7	94.7	96.6	98.6	98.6	100.6	102.5	102.5	102.5
80°	69.0	71.0	73.0	74.9	74.9	76.9	76.9	78.9	78.9	78.9
82.5°	49.3	51.3	53.2	55.2	57.2	57.2	59.2	61.1	61.1	59.2
85°	33.5	37.5	39.4	41.4	41.4	41.4	43.4	45.4	45.4	43.4
87.5°	23.7	23.7	25.6	27.6	27.6	29.6	29.6	31.6	31.6	31.6
90°	13.8	13.8	15.8	15.8	17.7	17.7	17.7	19.7	19.7	19.7
92.5°	33.5	33.5	35.5	35.5	35.5	35.5	37.5	37.5	37.5	37.5
95°	358.9	161.7	136.1	82.8	78.9	69.0	67.1	69.0	69.0	67.1
97.5°	1205.0	1289.8	1343.0	1368.6	1337.1	1303.6	1266.1	1260.2	1208.9	1094.5
100°	1299.6	1366.7	1431.8	1477.1	1494.9	1510.6	1546.1	1567.8	1577.7	1587.6
102.5°	1347.0	1417.9	1475.1	1532.3	1556.0	1577.7	1609.2	1634.9	1644.7	1652.6
105°	1388.4	1461.3	1524.4	1575.7	1597.4	1617.1	1648.7	1672.4	1690.1	1692.1
107.5°	1398.2	1475.1	1546.1	1609.2	1634.9	1656.6	1694.0	1711.8	1727.6	1727.6
110°	1416.0	1488.9	1554.0	1611.2	1636.9	1662.5	1701.9	1729.5	1745.3	1749.3





TEST NUMBER: P393836

CATALOG NUMBER: I3-UL-80L835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1429.8	1504.7	1565.9	1623.0	1644.7	1668.4	1705.9	1731.5	1745.3	1751.2
115°	1441.6	1514.6	1575.7	1629.0	1652.6	1676.3	1713.8	1735.5	1751.2	1757.2
117.5°	1449.5	1520.5	1581.6	1630.9	1656.6	1676.3	1711.8	1735.5	1751.2	1753.2
120°	1451.5	1522.5	1581.6	1630.9	1652.6	1674.3	1709.8	1733.5	1749.3	1749.3
122.5°	1451.5	1520.5	1579.7	1627.0	1646.7	1666.4	1700.0	1727.6	1741.4	1741.4
125°	1443.6	1512.6	1569.8	1617.1	1636.9	1654.6	1690.1	1715.7	1729.5	1731.5
127.5°	1431.8	1498.8	1556.0	1603.3	1623.0	1638.8	1676.3	1700.0	1713.8	1715.7
130°	1416.0	1483.0	1538.2	1583.6	1603.3	1621.1	1652.6	1678.3	1694.0	1698.0
132.5°	1398.2	1461.3	1516.6	1559.9	1579.7	1595.4	1627.0	1652.6	1666.4	1672.4
135°	1376.5	1435.7	1488.9	1532.3	1552.1	1567.8	1597.4	1623.0	1636.9	1642.8
137.5°	1348.9	1406.1	1457.4	1500.8	1518.5	1534.3	1563.9	1587.6	1599.4	1607.3
140°	1317.4	1370.6	1423.9	1463.3	1481.1	1496.8	1522.5	1548.1	1559.9	1565.9
142.5°	1283.8	1337.1	1384.4	1423.9	1439.6	1455.4	1481.1	1504.7	1516.6	1518.5
145°	1248.3	1299.6	1343.0	1380.5	1394.3	1410.1	1433.7	1457.4	1469.2	1471.2
147.5°	1208.9	1256.2	1297.7	1333.1	1348.9	1360.8	1382.5	1404.1	1416.0	1417.9
150°	1163.5	1206.9	1244.4	1279.9	1293.7	1305.5	1329.2	1348.9	1360.8	1362.7
152.5°	1120.2	1161.6	1193.1	1224.7	1238.5	1250.3	1270.0	1289.8	1301.6	1303.6
155°	1074.8	1112.3	1143.8	1169.5	1181.3	1193.1	1208.9	1226.7	1236.5	1238.5
157.5°	1027.5	1063.0	1090.6	1114.2	1126.1	1135.9	1149.7	1165.5	1171.4	1175.4
160°	976.2	1005.8	1029.4	1053.1	1063.0	1072.8	1086.6	1098.5	1106.4	1108.3
162.5°	921.0	946.6	966.3	988.0	993.9	1001.8	1015.6	1027.5	1033.4	1035.4
165°	863.8	887.5	905.2	922.9	926.9	932.8	942.7	954.5	958.4	962.4
167.5°	806.6	826.3	838.1	853.9	859.8	863.8	873.6	881.5	885.5	887.5
170°	751.4	765.2	775.0	786.9	788.8	794.8	800.7	808.6	810.5	810.5
172.5°	708.0	713.9	719.8	723.8	725.7	727.7	731.7	733.6	733.6	733.6
175°	680.4	684.3	684.3	686.3	686.3	686.3	686.3	686.3	686.3	686.3
177.5°	664.6	664.6	664.6	662.6	662.6	662.6	662.6	660.7	660.7	660.7
180°	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7

(END OF REPORT)