

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: P393835

Luminaire Tested: **I3-UL-80L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393835
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-80L830-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
8000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

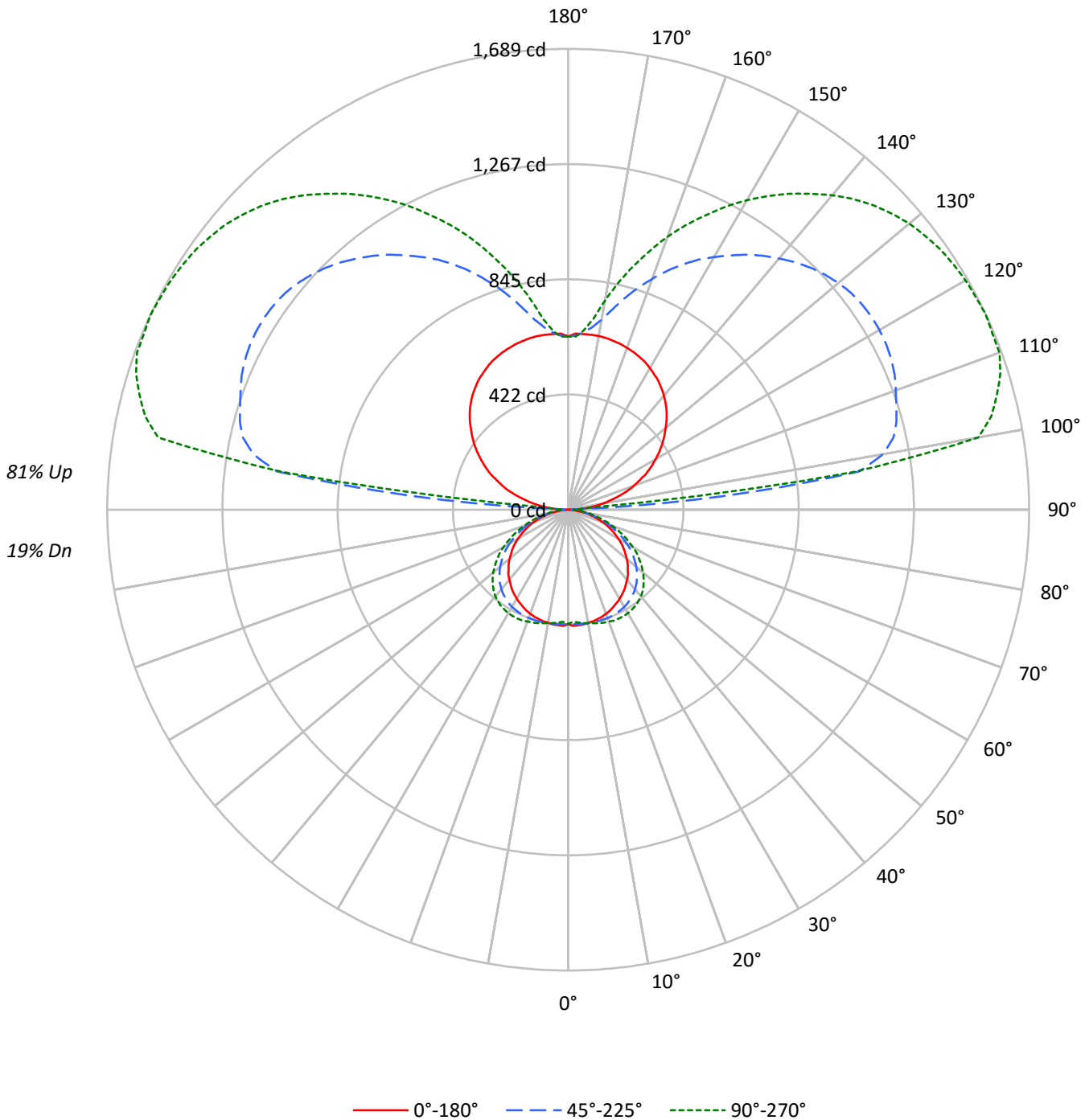
Lumens per Lamp: N/A
Luminaire Lumens: 7690.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (A_{in}): 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°	2302	2302	2302
5°	2333	2268	2225
10°	2331	2253	2228
15°	2335	2245	2247
20°	2336	2254	2274
25°	2333	2260	2308
30°	2336	2263	2330
35°	2334	2252	2340
40°	2324	2235	2327
45°	2303	2188	2276
50°	2283	2117	2192
55°	2243	2014	2067
60°	2174	1869	1902
65°	2079	1664	1696
70°	1964	1443	1431
75°	1703	1131	1148
80°	1354	813	830
85°	806	473	547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	0.5
10°-20°	119.5	1.6
20°-30°	192.3	2.5
30°-40°	247.4	3.2
40°-50°	271.7	3.5
50°-60°	255.4	3.3
60°-70°	198.4	2.6
70°-80°	113.8	1.5
80°-90°	36.5	0.5
90°-100°	491.6	6.4
100°-110°	1168.2	15.2
110°-120°	1173.5	15.3
120°-130°	1076.2	14.0
130°-140°	899.9	11.7
140°-150°	675.4	8.8
150°-160°	439.7	5.7
160°-170°	226.4	2.9
170°-180°	64.1	0.8
0°-30°	351.8	4.6
0°-40°	599.2	7.8
0°-60°	1126.4	14.6
0°-90°	1475.1	19.2
90°-120°	2833.3	36.8
90°-150°	5484.7	71.3
90°-180°	6215.0	80.8
0°-180°	7690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	424	421	421	419	415	40
15°	415	413	423	428	430	117
25°	392	396	419	434	440	181
35°	358	368	398	423	430	224
45°	309	324	356	383	390	239
55°	248	262	290	311	318	221
65°	174	184	201	218	224	173
75°	93	97	106	118	121	99
85°	19	23	30	40	42	22
90°	2	6	11	17	19	6
95°	66	550	565	76	64	66
105°	191	737	1245	1535	1626	202
115°	316	830	1306	1588	1689	311
125°	421	866	1313	1573	1664	376
135°	510	862	1255	1492	1579	393
145°	576	826	1141	1340	1414	360
155°	618	758	991	1135	1190	285
165°	641	684	804	891	925	181
175°	646	644	652	660	660	62
180°	635	635	635	635	635	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8
2.5°	426.4	424.5	422.6	422.6	420.7	420.7	420.7	418.8	418.8	418.8	420.7
5°	424.5	424.5	422.6	420.7	420.7	420.7	418.8	418.8	418.8	418.8	420.7
7.5°	424.5	422.6	420.7	420.7	418.8	418.8	418.8	418.8	418.8	418.8	420.7
10°	420.7	420.7	418.8	418.8	416.9	418.8	418.8	418.8	418.8	418.8	422.6
12.5°	418.8	418.8	416.9	415.0	415.0	415.0	416.9	416.9	416.9	418.8	422.6
15°	415.0	415.0	413.2	413.2	413.2	413.2	415.0	415.0	416.9	418.8	422.6
17.5°	411.3	411.3	409.4	409.4	409.4	411.3	411.3	413.2	415.0	418.8	422.6
20°	405.6	405.6	405.6	405.6	405.6	407.5	407.5	409.4	413.2	416.9	422.6
22.5°	399.9	399.9	399.9	399.9	399.9	401.8	403.7	407.5	409.4	415.0	420.7
25°	392.3	392.3	392.3	392.3	394.2	396.1	398.0	401.8	405.6	411.3	418.8
27.5°	384.7	386.6	386.6	386.6	388.5	390.4	392.3	396.1	401.8	409.4	415.0
30°	377.1	377.1	377.1	379.0	380.9	382.8	386.6	390.4	396.1	403.7	411.3
32.5°	367.7	367.7	369.6	369.6	373.4	375.2	379.0	384.7	390.4	398.0	405.6
35°	358.2	358.2	358.2	362.0	363.9	367.7	369.6	375.2	382.8	390.4	398.0
37.5°	346.8	348.7	348.7	350.6	354.4	358.2	360.1	367.7	375.2	382.8	390.4
40°	335.5	337.3	337.3	339.2	344.9	346.8	350.6	358.2	363.9	373.4	380.9
42.5°	324.1	324.1	326.0	327.9	333.6	335.5	339.2	346.8	354.4	362.0	369.6
45°	308.9	310.8	312.7	314.6	320.3	324.1	327.9	333.6	341.1	348.7	356.3
47.5°	295.7	295.7	297.5	301.3	307.0	310.8	312.7	320.3	326.0	333.6	341.1
50°	280.5	282.4	282.4	286.2	291.9	295.7	297.5	305.1	310.8	318.4	326.0
52.5°	263.4	265.3	267.2	271.0	276.7	280.5	282.4	288.1	293.8	301.3	307.0
55°	248.3	250.2	250.2	254.0	259.6	261.5	265.3	269.1	276.7	282.4	290.0
57.5°	231.2	233.1	233.1	236.9	240.7	244.5	246.4	252.1	257.7	263.4	269.1
60°	212.3	214.2	216.1	217.9	221.7	225.5	227.4	231.2	236.9	242.6	248.3
62.5°	193.3	195.2	197.1	199.0	202.8	204.7	206.6	212.3	216.1	221.7	225.5
65°	174.4	176.3	178.1	180.0	181.9	183.8	185.7	189.5	193.3	199.0	200.9
67.5°	155.4	157.3	157.3	159.2	161.1	163.0	164.9	168.7	170.6	176.3	178.1
70°	136.5	136.5	136.5	138.3	138.3	140.2	142.1	145.9	147.8	151.6	155.4
72.5°	113.7	115.6	115.6	115.6	117.5	119.4	121.3	123.2	125.1	127.0	130.8
75°	92.9	94.8	92.9	94.8	96.7	96.7	98.6	100.4	102.3	104.2	106.1
77.5°	73.9	72.0	73.9	73.9	75.8	75.8	75.8	77.7	81.5	81.5	85.3
80°	53.1	53.1	53.1	53.1	55.0	55.0	56.9	56.9	60.6	62.5	64.4
82.5°	34.1	34.1	36.0	36.0	36.0	37.9	37.9	39.8	41.7	43.6	45.5
85°	19.0	19.0	19.0	20.8	20.8	22.7	22.7	24.6	26.5	28.4	30.3
87.5°	5.7	7.6	9.5	9.5	11.4	11.4	13.3	13.3	17.1	19.0	20.8
90°	1.9	1.9	3.8	3.8	3.8	5.7	5.7	7.6	7.6	9.5	11.4
92.5°	32.2	75.8	157.3	235.0	202.8	189.5	113.7	34.1	30.3	32.2	32.2
95°	66.3	125.1	229.3	371.5	481.4	549.6	595.1	682.3	771.3	756.2	564.8
97.5°	96.7	161.1	276.7	407.5	559.1	636.8	695.5	799.8	913.5	1008.2	1076.5
100°	127.0	193.3	316.5	453.0	593.2	663.3	731.5	873.7	985.5	1080.3	1171.2
102.5°	159.2	225.5	352.5	494.6	633.0	701.2	767.6	892.6	1017.7	1131.4	1220.5
105°	191.4	259.6	384.7	530.7	669.0	737.2	801.7	921.1	1036.7	1142.8	1245.1
107.5°	225.5	290.0	413.2	559.1	697.4	765.7	830.1	949.5	1061.3	1167.4	1260.3
110°	255.9	318.4	441.6	585.6	724.0	792.2	856.6	976.0	1086.0	1186.4	1277.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	284.3	344.9	468.1	608.4	744.8	813.0	875.6	995.0	1104.9	1203.5	1294.4
115°	316.5	369.6	494.6	629.2	763.8	830.1	892.6	1010.1	1120.1	1216.7	1305.8
117.5°	343.0	394.2	517.4	646.3	778.9	843.4	904.0	1021.5	1129.5	1226.2	1313.4
120°	369.6	416.9	538.2	661.4	790.3	852.8	913.5	1029.1	1137.1	1231.9	1317.2
122.5°	396.1	439.7	555.3	676.6	799.8	862.3	921.1	1034.8	1140.9	1233.8	1317.2
125°	420.7	458.6	570.5	688.0	805.5	866.1	923.0	1034.8	1139.0	1230.0	1313.4
127.5°	443.5	479.5	581.8	699.3	809.3	868.0	923.0	1031.0	1135.2	1224.3	1305.8
130°	466.2	498.4	593.2	705.0	813.0	866.1	919.2	1023.4	1125.7	1214.8	1292.5
132.5°	489.0	519.3	602.7	710.7	814.9	866.1	915.4	1015.8	1114.4	1201.6	1275.5
135°	509.8	534.4	612.2	714.5	813.0	862.3	907.8	1002.6	1097.3	1182.6	1254.6
137.5°	528.8	549.6	619.7	716.4	811.1	856.6	902.1	987.4	1076.5	1159.9	1230.0
140°	545.8	564.8	623.5	716.4	803.6	849.1	890.7	972.2	1053.7	1133.3	1201.6
142.5°	561.0	578.0	629.2	712.6	796.0	839.6	879.4	957.1	1031.0	1106.8	1173.1
145°	576.1	589.4	633.0	710.7	786.5	826.3	864.2	938.1	1010.1	1078.4	1140.9
147.5°	587.5	600.8	636.8	703.1	775.1	811.1	847.2	917.3	983.6	1048.0	1104.9
150°	598.9	610.3	638.7	695.5	761.9	794.1	826.3	892.6	957.1	1015.8	1068.9
152.5°	610.3	617.8	644.4	688.0	746.7	777.0	809.3	868.0	926.8	981.7	1032.9
155°	617.8	623.5	646.3	680.4	731.5	758.1	784.6	839.6	892.6	943.8	991.2
157.5°	625.4	631.1	648.2	674.7	714.5	739.1	761.9	809.3	858.5	904.0	947.6
160°	631.1	634.9	648.2	670.9	699.3	716.4	737.2	780.8	822.5	862.3	900.2
162.5°	636.8	638.7	648.2	665.2	686.1	697.4	712.6	746.7	784.6	818.7	852.8
165°	640.6	642.5	648.2	661.4	674.7	684.2	691.7	716.4	744.8	775.1	803.6
167.5°	644.4	644.4	648.2	657.6	665.2	670.9	676.6	689.9	708.8	731.5	752.4
170°	646.3	646.3	648.2	653.8	659.5	661.4	665.2	672.8	682.3	693.6	706.9
172.5°	646.3	646.3	646.3	650.1	651.9	651.9	651.9	655.7	661.4	669.0	674.7
175°	646.3	644.4	644.4	646.3	644.4	644.4	644.4	644.4	646.3	650.1	651.9
177.5°	646.3	644.4	642.5	642.5	640.6	640.6	638.7	638.7	638.7	638.7	638.7
180°	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8
2.5°	420.7	420.7	418.8	416.9	416.9	416.9	415.0	413.2	411.3	411.3
5°	420.7	420.7	418.8	418.8	418.8	418.8	416.9	416.9	415.0	415.0
7.5°	422.6	420.7	420.7	420.7	420.7	420.7	420.7	420.7	418.8	418.8
10°	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6
12.5°	424.5	424.5	424.5	424.5	426.4	426.4	426.4	426.4	426.4	426.4
15°	424.5	426.4	428.3	428.3	428.3	430.2	430.2	430.2	430.2	430.2
17.5°	426.4	428.3	430.2	430.2	432.1	432.1	434.0	434.0	434.0	434.0
20°	426.4	428.3	430.2	432.1	434.0	434.0	435.9	437.8	437.8	435.9
22.5°	424.5	428.3	430.2	432.1	434.0	435.9	437.8	439.7	439.7	439.7
25°	422.6	426.4	430.2	434.0	434.0	435.9	439.7	439.7	439.7	439.7
27.5°	420.7	424.5	428.3	432.1	434.0	435.9	437.8	439.7	439.7	439.7
30°	416.9	422.6	426.4	430.2	432.1	434.0	435.9	437.8	437.8	437.8
32.5°	411.3	416.9	420.7	426.4	428.3	430.2	432.1	434.0	434.0	434.0
35°	405.6	411.3	415.0	420.7	422.6	424.5	428.3	428.3	430.2	430.2
37.5°	396.1	403.7	407.5	413.2	415.0	416.9	420.7	422.6	422.6	422.6
40°	386.6	394.2	398.0	403.7	405.6	407.5	411.3	413.2	415.0	415.0
42.5°	375.2	382.8	386.6	392.3	394.2	396.1	399.9	401.8	403.7	403.7
45°	363.9	369.6	373.4	379.0	382.8	382.8	386.6	388.5	390.4	390.4
47.5°	348.7	354.4	358.2	363.9	367.7	369.6	371.5	373.4	375.2	375.2
50°	331.7	337.3	343.0	346.8	350.6	350.6	354.4	356.3	358.2	358.2
52.5°	314.6	318.4	324.1	329.8	331.7	333.6	335.5	337.3	339.2	339.2
55°	295.7	299.4	305.1	308.9	310.8	312.7	314.6	316.5	318.4	318.4
57.5°	274.8	278.6	284.3	288.1	290.0	291.9	293.8	295.7	297.5	297.5
60°	252.1	255.9	261.5	265.3	267.2	267.2	271.0	272.9	272.9	272.9
62.5°	229.3	233.1	236.9	240.7	242.6	244.5	246.4	248.3	248.3	248.3
65°	206.6	210.4	214.2	216.1	217.9	217.9	219.8	221.7	223.6	223.6
67.5°	181.9	185.7	189.5	191.4	193.3	193.3	195.2	197.1	197.1	197.1
70°	157.3	159.2	163.0	164.9	166.8	166.8	170.6	170.6	170.6	170.6
72.5°	132.7	134.6	138.3	140.2	142.1	142.1	144.0	145.9	145.9	145.9
75°	109.9	111.8	113.7	117.5	117.5	117.5	119.4	121.3	121.3	121.3
77.5°	87.2	89.1	91.0	92.9	94.8	94.8	96.7	98.6	98.6	98.6
80°	66.3	68.2	70.1	72.0	72.0	73.9	73.9	75.8	75.8	75.8
82.5°	47.4	49.3	51.2	53.1	55.0	55.0	56.9	58.8	58.8	56.9
85°	32.2	36.0	37.9	39.8	39.8	39.8	41.7	43.6	43.6	41.7
87.5°	22.7	22.7	24.6	26.5	26.5	28.4	28.4	30.3	30.3	30.3
90°	13.3	13.3	15.2	15.2	17.1	17.1	17.1	19.0	19.0	19.0
92.5°	32.2	32.2	34.1	34.1	34.1	34.1	36.0	36.0	36.0	36.0
95°	344.9	155.4	130.8	79.6	75.8	66.3	64.4	66.3	66.3	64.4
97.5°	1158.0	1239.5	1290.6	1315.3	1284.9	1252.7	1216.7	1211.0	1161.8	1051.8
100°	1248.9	1313.4	1375.9	1419.5	1436.6	1451.7	1485.8	1506.7	1516.2	1525.6
102.5°	1294.4	1362.6	1417.6	1472.6	1495.3	1516.2	1546.5	1571.1	1580.6	1588.2
105°	1334.2	1404.3	1465.0	1514.3	1535.1	1554.1	1584.4	1607.1	1624.2	1626.1
107.5°	1343.7	1417.6	1485.8	1546.5	1571.1	1592.0	1628.0	1645.0	1660.2	1660.2
110°	1360.8	1430.9	1493.4	1548.4	1573.0	1597.7	1635.6	1662.1	1677.3	1681.0



TEST NUMBER: P393835

CATALOG NUMBER: I3-UL-80L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1374.0	1446.0	1504.8	1559.8	1580.6	1603.3	1639.3	1664.0	1677.3	1682.9
115°	1385.4	1455.5	1514.3	1565.4	1588.2	1610.9	1646.9	1667.8	1682.9	1688.6
117.5°	1393.0	1461.2	1520.0	1567.3	1592.0	1610.9	1645.0	1667.8	1682.9	1684.8
120°	1394.9	1463.1	1520.0	1567.3	1588.2	1609.0	1643.1	1665.9	1681.0	1681.0
122.5°	1394.9	1461.2	1518.1	1563.5	1582.5	1601.4	1633.7	1660.2	1673.5	1673.5
125°	1387.3	1453.6	1508.6	1554.1	1573.0	1590.1	1624.2	1648.8	1662.1	1664.0
127.5°	1375.9	1440.4	1495.3	1540.8	1559.8	1574.9	1610.9	1633.7	1646.9	1648.8
130°	1360.8	1425.2	1478.3	1521.8	1540.8	1557.9	1588.2	1612.8	1628.0	1631.8
132.5°	1343.7	1404.3	1457.4	1499.1	1518.1	1533.2	1563.5	1588.2	1601.4	1607.1
135°	1322.9	1379.7	1430.9	1472.6	1491.5	1506.7	1535.1	1559.8	1573.0	1578.7
137.5°	1296.3	1351.3	1400.6	1442.2	1459.3	1474.5	1502.9	1525.6	1537.0	1544.6
140°	1266.0	1317.2	1368.3	1406.2	1423.3	1438.5	1463.1	1487.7	1499.1	1504.8
142.5°	1233.8	1284.9	1330.4	1368.3	1383.5	1398.7	1423.3	1446.0	1457.4	1459.3
145°	1199.7	1248.9	1290.6	1326.6	1339.9	1355.1	1377.8	1400.6	1411.9	1413.8
147.5°	1161.8	1207.2	1247.0	1281.2	1296.3	1307.7	1328.5	1349.4	1360.8	1362.6
150°	1118.2	1159.9	1195.9	1230.0	1243.3	1254.6	1277.4	1296.3	1307.7	1309.6
152.5°	1076.5	1116.3	1146.6	1176.9	1190.2	1201.6	1220.5	1239.5	1250.8	1252.7
155°	1032.9	1068.9	1099.2	1123.9	1135.2	1146.6	1161.8	1178.8	1188.3	1190.2
157.5°	987.4	1021.5	1048.0	1070.8	1082.2	1091.6	1104.9	1120.1	1125.7	1129.5
160°	938.1	966.6	989.3	1012.0	1021.5	1031.0	1044.3	1055.6	1063.2	1065.1
162.5°	885.1	909.7	928.6	949.5	955.2	962.8	976.0	987.4	993.1	995.0
165°	830.1	852.8	869.9	887.0	890.7	896.4	905.9	917.3	921.1	924.9
167.5°	775.1	794.1	805.5	820.6	826.3	830.1	839.6	847.2	850.9	852.8
170°	722.1	735.3	744.8	756.2	758.1	763.8	769.5	777.0	778.9	778.9
172.5°	680.4	686.1	691.7	695.5	697.4	699.3	703.1	705.0	705.0	705.0
175°	653.8	657.6	657.6	659.5	659.5	659.5	659.5	659.5	659.5	659.5
177.5°	638.7	638.7	638.7	636.8	636.8	636.8	636.8	634.9	634.9	634.9
180°	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9

(END OF REPORT)