

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: P393799

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

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393799
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-80L830-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
8000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

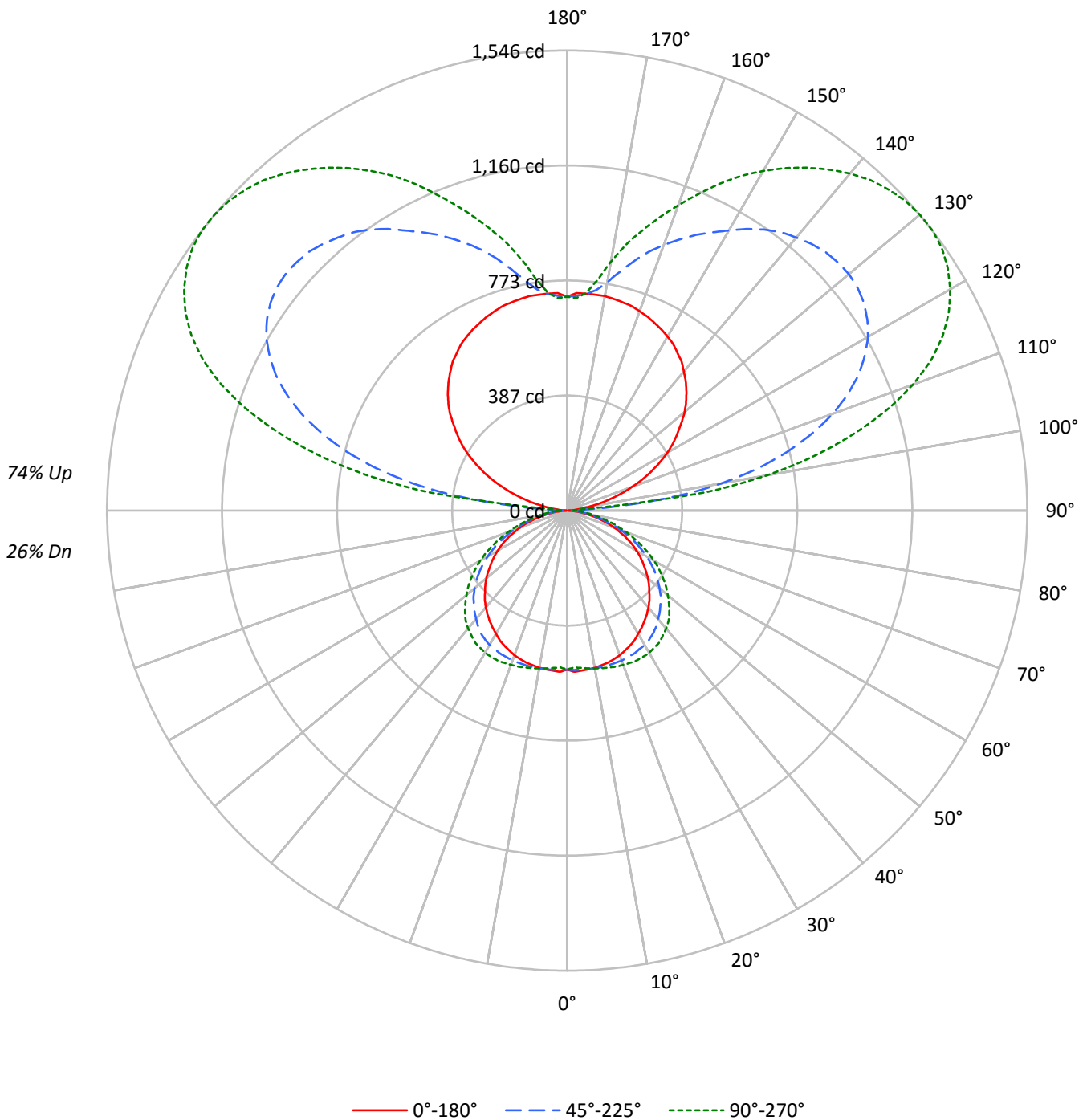
Lumens per Lamp: N/A
Luminaire Lumens: 7042.9 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (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	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°	2937	2937	2937
5°	2969	2892	2845
10°	2971	2869	2837
15°	2975	2859	2851
20°	2980	2860	2877
25°	2975	2864	2915
30°	2959	2868	2935
35°	2952	2852	2938
40°	2941	2791	2901
45°	2911	2724	2829
50°	2884	2634	2703
55°	2825	2501	2547
60°	2755	2325	2351
65°	2642	2088	2084
70°	2455	1778	1765
75°	2119	1415	1417
80°	1642	1005	1038
85°	963	622	696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	0.7
10°-20°	151.9	2.2
20°-30°	243.6	3.5
30°-40°	311.5	4.4
40°-50°	339.7	4.8
50°-60°	318.2	4.5
60°-70°	246.9	3.5
70°-80°	141.5	2.0
80°-90°	45.3	0.6
90°-100°	181.6	2.6
100°-110°	706.1	10.0
110°-120°	961.3	13.6
120°-130°	997.9	14.2
130°-140°	885.2	12.6
140°-150°	686.8	9.8
150°-160°	458.4	6.5
160°-170°	244.3	3.5
170°-180°	71.5	1.0
0°-30°	446.6	6.3
0°-40°	758.1	10.8
0°-60°	1416.1	20.1
0°-90°	1849.8	26.3
90°-120°	1849.1	26.3
90°-150°	4419.0	62.7
90°-180°	5193.0	73.7
0°-180°	7042.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	540	534	536	534	531	51
15°	529	527	538	546	546	149
25°	500	504	531	550	555	231
35°	453	462	504	531	540	284
45°	390	408	444	472	485	302
55°	313	330	360	385	392	280
65°	222	231	252	269	275	219
75°	116	121	133	146	150	123
85°	23	26	40	51	53	27
90°	2	6	13	19	23	3
95°	23	129	176	36	34	30
105°	150	453	768	912	999	160
115°	313	699	1080	1270	1393	308
125°	453	824	1217	1429	1537	405
135°	567	868	1228	1440	1526	437
145°	646	868	1152	1338	1406	405
155°	696	821	1022	1158	1211	321
165°	724	754	868	950	974	205
175°	732	728	730	733	733	70
180°	718	718	718	718	718	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4
2.5°	542.0	540.1	540.1	536.3	536.3	534.4	534.4	534.4	534.4	534.4	536.3
5°	540.1	540.1	538.2	536.3	536.3	534.4	534.4	534.4	534.4	534.4	536.3
7.5°	538.2	538.2	536.3	534.4	534.4	534.4	534.4	534.4	534.4	534.4	538.2
10°	536.3	536.3	534.4	532.6	532.6	532.6	532.6	534.4	534.4	534.4	538.2
12.5°	532.6	530.7	530.7	528.8	528.8	528.8	530.7	530.7	532.6	534.4	538.2
15°	528.8	528.8	526.9	525.0	526.9	526.9	526.9	528.8	530.7	532.6	538.2
17.5°	523.1	523.1	521.2	521.2	521.2	523.1	523.1	525.0	528.8	532.6	536.3
20°	517.4	515.5	515.5	515.5	517.4	517.4	519.3	523.1	525.0	530.7	536.3
22.5°	507.9	509.8	507.9	507.9	509.8	511.7	513.6	517.4	521.2	526.9	532.6
25°	500.3	500.3	500.3	500.3	504.1	504.1	507.9	511.7	517.4	523.1	530.7
27.5°	490.9	490.9	490.9	492.8	494.6	496.5	498.4	504.1	509.8	517.4	525.0
30°	477.6	477.6	477.6	477.6	483.3	485.2	489.0	496.5	502.2	511.7	521.2
32.5°	466.2	466.2	466.2	468.1	471.9	473.8	477.6	487.1	494.6	504.1	513.6
35°	453.0	453.0	454.8	454.8	460.5	462.4	466.2	473.8	481.4	492.8	504.1
37.5°	439.7	439.7	441.6	443.5	447.3	451.1	454.8	462.4	470.0	479.5	490.9
40°	424.5	424.5	426.4	428.3	434.0	437.8	441.6	449.2	456.7	466.2	475.7
42.5°	409.4	409.4	411.3	413.2	418.8	422.6	426.4	435.9	443.5	453.0	460.5
45°	390.4	392.3	394.2	398.0	403.7	407.5	411.3	418.8	428.3	435.9	443.5
47.5°	373.4	375.2	377.1	380.9	386.6	390.4	394.2	401.8	409.4	416.9	426.4
50°	354.4	356.3	358.2	362.0	367.7	371.5	375.2	382.8	390.4	396.1	405.6
52.5°	333.6	335.5	337.3	341.1	348.7	350.6	354.4	362.0	367.7	375.2	382.8
55°	312.7	314.6	316.5	320.3	326.0	329.8	331.7	339.2	344.9	352.5	360.1
57.5°	291.9	293.8	295.7	299.4	303.2	307.0	308.9	314.6	322.2	327.9	335.5
60°	269.1	271.0	272.9	274.8	280.5	282.4	284.3	290.0	295.7	303.2	308.9
62.5°	246.4	246.4	248.3	250.2	255.9	257.7	259.6	263.4	271.0	274.8	280.5
65°	221.7	221.7	223.6	225.5	229.3	231.2	233.1	236.9	242.6	246.4	252.1
67.5°	195.2	195.2	197.1	199.0	202.8	204.7	204.7	210.4	214.2	217.9	221.7
70°	170.6	170.6	172.5	172.5	174.4	176.3	178.1	181.9	183.8	189.5	191.4
72.5°	144.0	144.0	144.0	144.0	147.8	147.8	149.7	153.5	155.4	159.2	163.0
75°	115.6	115.6	117.5	117.5	119.4	121.3	123.2	125.1	128.9	130.8	132.7
77.5°	91.0	89.1	91.0	92.9	94.8	94.8	96.7	98.6	100.4	104.2	106.1
80°	64.4	64.4	64.4	66.3	68.2	68.2	70.1	72.0	73.9	77.7	79.6
82.5°	41.7	41.7	43.6	43.6	45.5	47.4	47.4	49.3	51.2	55.0	56.9
85°	22.7	22.7	22.7	24.6	26.5	26.5	28.4	30.3	34.1	36.0	39.8
87.5°	7.6	7.6	9.5	11.4	13.3	13.3	15.2	17.1	19.0	22.7	24.6
90°	1.9	1.9	1.9	3.8	3.8	5.7	5.7	7.6	9.5	11.4	13.3
92.5°	7.6	13.3	20.8	30.3	28.4	30.3	20.8	13.3	13.3	13.3	15.2
95°	22.7	34.1	55.0	87.2	113.7	128.9	142.1	155.4	181.9	183.8	176.3
97.5°	45.5	62.5	100.4	142.1	189.5	214.2	233.1	272.9	314.6	341.1	373.4
100°	75.8	100.4	149.7	206.6	261.5	293.8	324.1	380.9	432.1	477.6	526.9
102.5°	111.8	140.2	200.9	271.0	339.2	375.2	407.5	473.8	543.9	604.6	657.6
105°	149.7	181.9	254.0	333.6	411.3	453.0	492.8	564.8	638.7	705.0	767.6
107.5°	191.4	225.5	303.2	392.3	479.5	526.9	570.5	648.2	725.9	797.9	864.2
110°	231.2	269.1	350.6	447.3	545.8	593.2	636.8	722.1	803.6	879.4	949.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	272.9	312.7	394.2	500.3	600.8	650.1	695.5	786.5	871.8	949.5	1019.6
115°	312.7	350.6	435.9	545.8	648.2	699.3	748.6	841.5	930.5	1008.2	1080.3
117.5°	350.6	386.6	473.8	583.7	689.9	741.0	790.3	887.0	976.0	1057.5	1127.6
120°	388.5	420.7	515.5	615.9	724.0	775.1	826.3	923.0	1013.9	1095.4	1167.4
122.5°	422.6	453.0	545.8	644.4	750.5	803.6	852.8	951.4	1044.3	1125.7	1195.9
125°	453.0	481.4	574.2	667.1	773.2	824.4	875.6	972.2	1065.1	1144.7	1216.7
127.5°	483.3	511.7	595.1	689.9	788.4	841.5	890.7	987.4	1078.4	1159.9	1230.0
130°	515.5	536.3	615.9	710.7	803.6	852.8	904.0	996.9	1086.0	1165.5	1235.7
132.5°	542.0	561.0	636.8	727.8	814.9	862.3	907.8	1000.7	1089.7	1165.5	1233.8
135°	566.7	581.8	651.9	742.9	824.4	868.0	911.6	998.8	1086.0	1161.8	1228.1
137.5°	589.4	604.6	665.2	754.3	832.0	869.9	911.6	993.1	1076.5	1152.3	1214.8
140°	610.3	621.6	676.6	760.0	835.8	871.8	907.8	983.6	1061.3	1135.2	1197.8
142.5°	631.1	640.6	686.1	763.8	837.7	871.8	905.9	972.2	1044.3	1116.3	1178.8
145°	646.3	655.7	693.6	765.7	835.8	868.0	898.3	960.9	1025.3	1091.6	1152.3
147.5°	663.3	670.9	701.2	761.9	830.1	860.4	888.8	945.7	1004.5	1065.1	1122.0
150°	674.7	682.3	705.0	758.1	820.6	849.1	877.5	930.5	983.6	1036.7	1086.0
152.5°	686.1	691.7	710.7	752.4	809.3	835.8	862.3	913.5	962.8	1010.1	1053.7
155°	695.5	701.2	714.5	748.6	796.0	820.6	845.3	894.5	940.0	981.7	1021.5
157.5°	705.0	708.8	718.3	742.9	780.8	803.6	826.3	869.9	911.6	953.3	985.5
160°	712.6	714.5	722.1	741.0	767.6	784.6	805.5	845.3	883.2	919.2	949.5
162.5°	720.2	720.2	725.9	737.2	756.2	767.6	782.7	816.8	850.9	883.2	911.6
165°	724.0	724.0	727.8	735.3	746.7	754.3	763.8	786.5	813.0	841.5	868.0
167.5°	727.8	727.8	729.7	733.4	741.0	744.8	748.6	763.8	780.8	801.7	822.5
170°	731.5	729.7	729.7	733.4	735.3	737.2	739.1	746.7	754.3	767.6	778.9
172.5°	731.5	729.7	729.7	731.5	731.5	731.5	731.5	733.4	735.3	742.9	746.7
175°	731.5	729.7	729.7	729.7	729.7	727.8	727.8	727.8	727.8	727.8	729.7
177.5°	731.5	729.7	727.8	727.8	725.9	725.9	724.0	724.0	722.1	722.1	722.1
180°	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4
2.5°	536.3	536.3	534.4	534.4	532.6	532.6	530.7	528.8	526.9	526.9
5°	538.2	536.3	534.4	534.4	534.4	532.6	532.6	532.6	530.7	530.7
7.5°	538.2	538.2	538.2	536.3	536.3	536.3	536.3	536.3	534.4	534.4
10°	540.1	540.1	540.1	540.1	540.1	540.1	540.1	538.2	538.2	538.2
12.5°	540.1	540.1	540.1	542.0	542.0	542.0	542.0	542.0	542.0	542.0
15°	542.0	542.0	543.9	543.9	545.8	545.8	547.7	547.7	547.7	545.8
17.5°	540.1	542.0	543.9	545.8	547.7	547.7	549.6	549.6	549.6	549.6
20°	540.1	543.9	545.8	547.7	549.6	549.6	551.5	553.4	553.4	551.5
22.5°	538.2	542.0	543.9	547.7	549.6	549.6	553.4	553.4	553.4	553.4
25°	536.3	540.1	543.9	547.7	549.6	549.6	553.4	553.4	555.3	555.3
27.5°	532.6	536.3	542.0	545.8	547.7	549.6	551.5	553.4	553.4	553.4
30°	526.9	532.6	538.2	542.0	543.9	545.8	547.7	549.6	551.5	551.5
32.5°	519.3	525.0	530.7	536.3	538.2	540.1	543.9	545.8	545.8	545.8
35°	511.7	517.4	523.1	528.8	530.7	532.6	536.3	538.2	540.1	540.1
37.5°	500.3	506.0	511.7	517.4	519.3	523.1	526.9	528.8	528.8	528.8
40°	483.3	492.8	500.3	506.0	507.9	511.7	513.6	517.4	517.4	517.4
42.5°	468.1	475.7	481.4	489.0	490.9	496.5	500.3	502.2	504.1	504.1
45°	451.1	458.6	464.3	470.0	471.9	475.7	479.5	481.4	483.3	485.2
47.5°	434.0	439.7	445.4	451.1	453.0	456.7	460.5	462.4	464.3	464.3
50°	413.2	418.8	424.5	430.2	432.1	435.9	437.8	439.7	441.6	441.6
52.5°	390.4	396.1	401.8	407.5	409.4	411.3	415.0	416.9	418.8	418.8
55°	367.7	373.4	377.1	382.8	384.7	386.6	388.5	392.3	394.2	392.3
57.5°	341.1	346.8	350.6	356.3	358.2	360.1	362.0	363.9	365.8	365.8
60°	312.7	318.4	324.1	327.9	329.8	331.7	333.6	335.5	337.3	337.3
62.5°	284.3	290.0	293.8	299.4	301.3	301.3	303.2	305.1	307.0	307.0
65°	255.9	261.5	263.4	269.1	269.1	271.0	272.9	274.8	274.8	274.8
67.5°	225.5	231.2	233.1	236.9	236.9	238.8	240.7	242.6	242.6	242.6
70°	197.1	199.0	202.8	204.7	206.6	206.6	208.5	210.4	212.3	210.4
72.5°	166.8	168.7	172.5	174.4	174.4	176.3	176.3	178.1	180.0	180.0
75°	136.5	140.2	142.1	144.0	145.9	145.9	147.8	149.7	149.7	149.7
77.5°	108.0	111.8	113.7	115.6	117.5	117.5	119.4	119.4	121.3	119.4
80°	83.4	85.3	87.2	89.1	91.0	91.0	92.9	94.8	94.8	94.8
82.5°	60.6	62.5	66.3	68.2	68.2	68.2	72.0	72.0	73.9	72.0
85°	41.7	43.6	47.4	49.3	51.2	51.2	51.2	53.1	55.0	53.1
87.5°	26.5	30.3	32.2	34.1	34.1	34.1	36.0	37.9	37.9	37.9
90°	15.2	15.2	17.1	19.0	19.0	20.8	20.8	22.7	22.7	22.7
92.5°	15.2	17.1	17.1	17.1	19.0	19.0	19.0	20.8	20.8	20.8
95°	128.9	92.9	53.1	41.7	36.0	36.0	34.1	36.0	34.1	34.1
97.5°	390.4	422.6	437.8	458.6	470.0	468.1	460.5	468.1	462.4	468.1
100°	555.3	585.6	608.4	614.0	625.4	631.1	651.9	667.1	674.7	684.2
102.5°	689.9	725.9	752.4	767.6	778.9	786.5	811.1	833.9	845.3	852.8
105°	813.0	850.9	883.2	898.3	911.6	919.2	945.7	972.2	989.3	998.8
107.5°	911.6	955.2	989.3	1012.0	1025.3	1038.6	1070.8	1097.3	1118.2	1127.6
110°	1000.7	1044.3	1080.3	1106.8	1122.0	1135.2	1171.2	1201.6	1224.3	1235.7



TEST NUMBER: P393799

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1074.6	1122.0	1158.0	1186.4	1201.6	1220.5	1254.6	1288.7	1311.5	1324.7
115°	1135.2	1184.5	1222.4	1252.7	1269.8	1286.8	1326.6	1360.8	1383.5	1393.0
117.5°	1186.4	1235.7	1275.5	1305.8	1324.7	1343.7	1383.5	1413.8	1438.5	1446.0
120°	1228.1	1277.4	1317.2	1351.3	1370.2	1387.3	1425.2	1457.4	1480.2	1485.8
122.5°	1256.5	1307.7	1349.4	1387.3	1404.3	1421.4	1457.4	1489.6	1510.5	1516.2
125°	1277.4	1330.4	1372.1	1411.9	1429.0	1446.0	1480.2	1512.4	1529.4	1537.0
127.5°	1290.6	1343.7	1389.2	1427.1	1446.0	1461.2	1495.3	1523.7	1540.8	1546.5
130°	1294.4	1349.4	1394.9	1434.7	1451.7	1466.9	1499.1	1527.5	1542.7	1546.5
132.5°	1294.4	1347.5	1394.9	1432.8	1449.8	1465.0	1495.3	1521.8	1537.0	1540.8
135°	1286.8	1338.0	1385.4	1423.3	1440.4	1455.5	1485.8	1508.6	1523.7	1525.6
137.5°	1273.6	1322.9	1368.3	1406.2	1423.3	1438.5	1465.0	1489.6	1502.9	1506.7
140°	1256.5	1302.0	1347.5	1383.5	1400.6	1413.8	1440.4	1461.2	1474.5	1478.3
142.5°	1233.8	1279.3	1321.0	1357.0	1370.2	1385.4	1408.1	1429.0	1440.4	1444.1
145°	1209.1	1252.7	1290.6	1322.9	1338.0	1351.3	1372.1	1391.1	1402.4	1406.2
147.5°	1176.9	1220.5	1256.5	1286.8	1300.1	1313.4	1332.3	1349.4	1360.8	1364.5
150°	1137.1	1176.9	1214.8	1243.3	1256.5	1269.8	1288.7	1303.9	1315.3	1317.2
152.5°	1097.3	1135.2	1167.4	1195.9	1209.1	1222.4	1239.5	1254.6	1267.9	1267.9
155°	1059.4	1091.6	1122.0	1146.6	1158.0	1169.3	1186.4	1199.7	1211.0	1211.0
157.5°	1019.6	1049.9	1074.6	1097.3	1106.8	1116.3	1131.4	1142.8	1152.3	1150.4
160°	981.7	1004.5	1027.2	1046.2	1055.6	1063.2	1074.6	1084.1	1093.5	1091.6
162.5°	940.0	960.9	979.8	993.1	1000.7	1006.4	1017.7	1027.2	1032.9	1032.9
165°	892.6	911.6	928.6	941.9	949.5	953.3	962.8	968.4	974.1	974.1
167.5°	843.4	858.5	873.7	885.1	892.6	896.4	905.9	909.7	917.3	915.4
170°	794.1	805.5	816.8	826.3	830.1	833.9	841.5	845.3	849.1	849.1
172.5°	754.3	758.1	763.8	771.3	771.3	773.2	777.0	778.9	780.8	780.8
175°	731.5	733.4	733.4	733.4	733.4	733.4	735.3	733.4	735.3	733.4
177.5°	722.1	722.1	720.2	720.2	718.3	720.2	718.3	716.4	716.4	714.5
180°	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3

(END OF REPORT)