

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: P395071

Luminaire Tested: **I3-UL-80L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395071
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-80L940-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
8000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

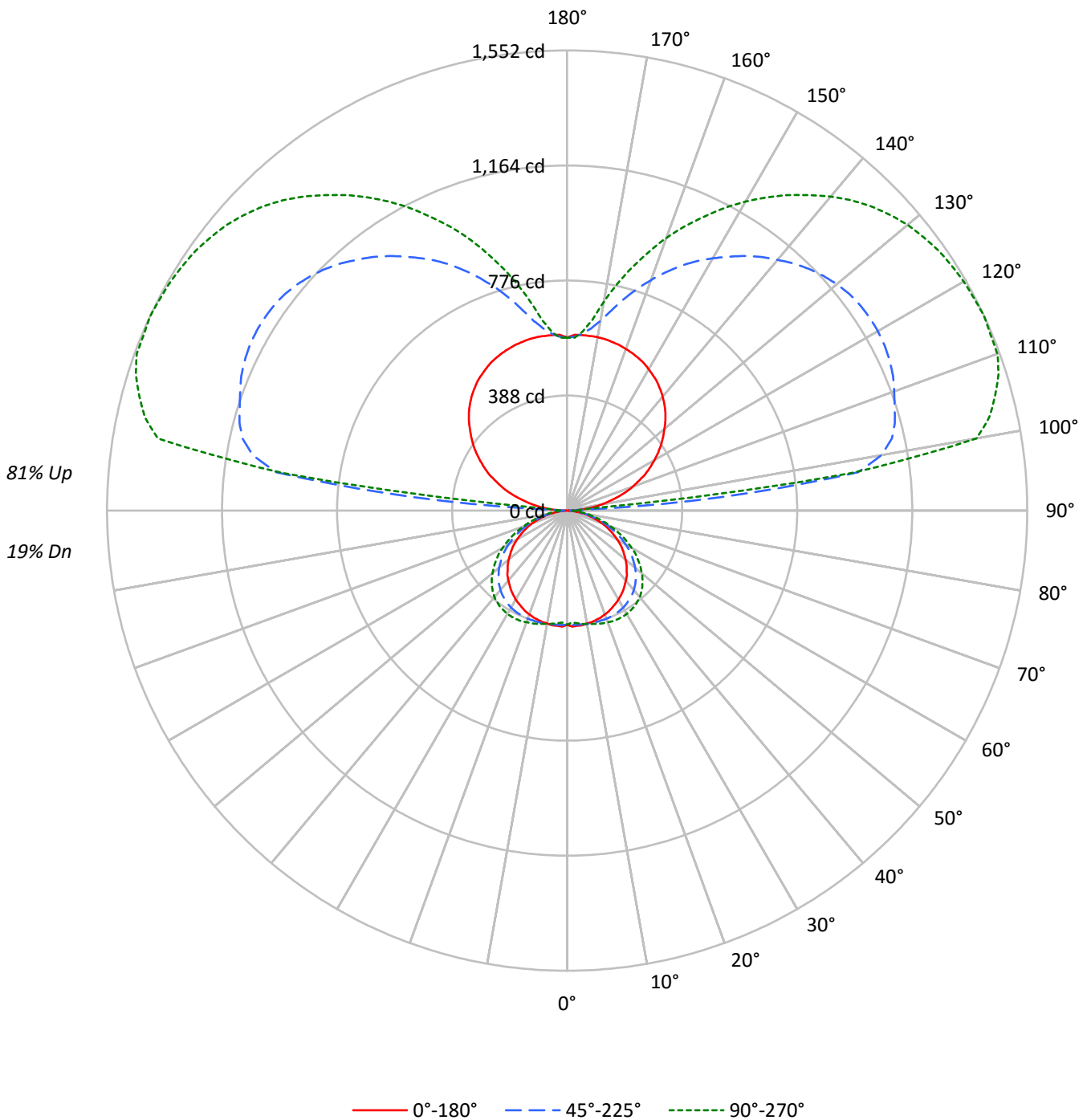
Lumens per Lamp: N/A
Luminaire Lumens: 7065.8 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (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	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°	2115	2115	2115
5°	2144	2085	2045
10°	2142	2070	2047
15°	2146	2063	2065
20°	2146	2071	2089
25°	2143	2076	2121
30°	2147	2079	2141
35°	2144	2069	2151
40°	2136	2053	2138
45°	2117	2011	2092
50°	2097	1945	2014
55°	2061	1850	1899
60°	1997	1717	1748
65°	1909	1528	1559
70°	1804	1326	1314
75°	1563	1039	1054
80°	1242	747	763
85°	738	436	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	0.5
10°-20°	109.8	1.6
20°-30°	176.6	2.5
30°-40°	227.3	3.2
40°-50°	249.7	3.5
50°-60°	234.7	3.3
60°-70°	182.3	2.6
70°-80°	104.6	1.5
80°-90°	33.5	0.5
90°-100°	451.7	6.4
100°-110°	1073.4	15.2
110°-120°	1078.2	15.3
120°-130°	988.8	14.0
130°-140°	826.8	11.7
140°-150°	620.6	8.8
150°-160°	404.0	5.7
160°-170°	208.0	2.9
170°-180°	58.9	0.8
0°-30°	323.3	4.6
0°-40°	550.6	7.8
0°-60°	1034.9	14.6
0°-90°	1355.4	19.2
90°-120°	2603.3	36.8
90°-150°	5039.6	71.3
90°-180°	5710.0	80.8
0°-180°	7065.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	385	385	385	385	385	
5°	390	387	387	385	381	37
15°	381	380	388	394	395	108
25°	360	364	385	399	404	166
35°	329	338	366	388	395	206
45°	284	298	327	352	359	219
55°	228	240	266	286	292	203
65°	160	169	184	200	206	159
75°	85	89	98	108	111	91
85°	17	21	28	37	38	21
90°	2	5	10	16	17	5
95°	61	505	519	70	59	61
105°	176	677	1144	1410	1494	186
115°	291	763	1200	1459	1552	286
125°	387	796	1207	1445	1529	345
135°	468	792	1153	1370	1451	361
145°	529	759	1048	1231	1299	331
155°	568	696	911	1043	1094	262
165°	589	629	738	818	850	167
175°	594	592	599	606	606	57
180°	583	583	583	583	583	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8
2.5°	391.8	390.1	388.3	388.3	386.6	386.6	386.6	384.8	384.8	384.8	386.6
5°	390.1	390.1	388.3	386.6	386.6	386.6	384.8	384.8	384.8	384.8	386.6
7.5°	390.1	388.3	386.6	386.6	384.8	384.8	384.8	384.8	384.8	384.8	386.6
10°	386.6	386.6	384.8	384.8	383.1	384.8	384.8	384.8	384.8	384.8	388.3
12.5°	384.8	384.8	383.1	381.4	381.4	381.4	383.1	383.1	383.1	384.8	388.3
15°	381.4	381.4	379.6	379.6	379.6	379.6	381.4	381.4	383.1	384.8	388.3
17.5°	377.8	377.8	376.2	376.2	376.2	377.8	377.8	379.6	381.4	384.8	388.3
20°	372.6	372.6	372.6	372.6	372.6	374.4	374.4	376.2	379.6	383.1	388.3
22.5°	367.4	367.4	367.4	367.4	367.4	369.2	370.9	374.4	376.2	381.4	386.6
25°	360.4	360.4	360.4	360.4	362.2	364.0	365.7	369.2	372.6	377.8	384.8
27.5°	353.5	355.2	355.2	355.2	357.0	358.8	360.4	364.0	369.2	376.2	381.4
30°	346.6	346.6	346.6	348.3	350.0	351.8	355.2	358.8	364.0	370.9	377.8
32.5°	337.8	337.8	339.6	339.6	343.0	344.8	348.3	353.5	358.8	365.7	372.6
35°	329.1	329.1	329.1	332.6	334.3	337.8	339.6	344.8	351.8	358.8	365.7
37.5°	318.7	320.4	320.4	322.1	325.7	329.1	330.9	337.8	344.8	351.8	358.8
40°	308.3	309.9	309.9	311.7	316.9	318.7	322.1	329.1	334.3	343.0	350.0
42.5°	297.7	297.7	299.5	301.3	306.5	308.3	311.7	318.7	325.7	332.6	339.6
45°	283.9	285.6	287.3	289.1	294.3	297.7	301.3	306.5	313.5	320.4	327.4
47.5°	271.6	271.6	273.4	276.9	282.1	285.6	287.3	294.3	299.5	306.5	313.5
50°	257.7	259.4	259.4	263.0	268.2	271.6	273.4	280.4	285.6	292.5	299.5
52.5°	242.0	243.8	245.6	249.0	254.2	257.7	259.4	264.7	269.9	276.9	282.1
55°	228.1	229.8	229.8	233.4	238.6	240.4	243.8	247.2	254.2	259.4	266.4
57.5°	212.4	214.2	214.2	217.7	221.2	224.6	226.4	231.6	236.8	242.0	247.2
60°	195.1	196.7	198.5	200.3	203.7	207.2	209.0	212.4	217.7	222.9	228.1
62.5°	177.7	179.3	181.1	182.9	186.3	188.1	189.8	195.1	198.5	203.7	207.2
65°	160.2	161.9	163.7	165.5	167.2	168.9	170.7	174.1	177.7	182.9	184.5
67.5°	142.8	144.5	144.5	146.3	148.0	149.8	151.5	155.0	156.7	161.9	163.7
70°	125.4	125.4	125.4	127.2	127.2	128.8	130.6	134.1	135.8	139.3	142.8
72.5°	104.5	106.2	106.2	106.2	108.0	109.7	111.4	113.2	115.0	116.6	120.2
75°	85.3	87.1	85.3	87.1	88.8	88.8	90.5	92.3	94.0	95.8	97.5
77.5°	67.9	66.1	67.9	67.9	69.7	69.7	69.7	71.4	74.9	74.9	78.3
80°	48.7	48.7	48.7	48.7	50.5	50.5	52.3	52.3	55.7	57.5	59.2
82.5°	31.3	31.3	33.1	33.1	33.1	34.8	34.8	36.6	38.3	40.1	41.8
85°	17.4	17.4	17.4	19.2	19.2	20.9	20.9	22.6	24.4	26.1	27.9
87.5°	5.2	7.0	8.7	8.7	10.4	10.4	12.2	12.2	15.6	17.4	19.2
90°	1.8	1.8	3.4	3.4	3.4	5.2	5.2	7.0	7.0	8.7	10.4
92.5°	29.6	69.7	144.5	215.9	186.3	174.1	104.5	31.3	27.9	29.6	29.6
95°	60.9	115.0	210.7	341.3	442.3	505.0	546.8	626.9	708.8	694.8	518.9
97.5°	88.8	148.0	254.2	374.4	513.7	585.1	639.1	734.8	839.4	926.4	989.1
100°	116.6	177.7	290.8	416.2	545.1	609.4	672.1	802.7	905.5	992.6	1076.2
102.5°	146.3	207.2	323.9	454.5	581.6	644.3	705.3	820.2	935.1	1039.6	1121.4
105°	175.9	238.6	353.5	487.6	614.7	677.4	736.6	846.3	952.5	1050.1	1144.1
107.5°	207.2	266.4	379.6	513.7	640.8	703.5	762.7	872.4	975.2	1072.7	1158.1
110°	235.1	292.5	405.7	538.1	665.2	727.9	787.1	896.8	997.8	1090.1	1173.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	261.2	316.9	430.1	558.9	684.3	747.0	804.5	914.3	1015.2	1105.8	1189.4
115°	290.8	339.6	454.5	578.1	701.8	762.7	820.2	928.1	1029.1	1118.0	1199.8
117.5°	315.2	362.2	475.4	593.8	715.7	774.9	830.6	938.6	1037.9	1126.7	1206.8
120°	339.6	383.1	494.6	607.8	726.2	783.7	839.4	945.6	1044.9	1131.9	1210.2
122.5°	364.0	404.0	510.2	621.6	734.8	792.3	846.3	950.8	1048.3	1133.6	1210.2
125°	386.6	421.5	524.1	632.1	740.0	795.8	848.0	950.8	1046.5	1130.2	1206.8
127.5°	407.5	440.5	534.6	642.6	743.6	797.5	848.0	947.3	1043.1	1124.9	1199.8
130°	428.3	458.0	545.1	647.8	747.0	795.8	844.6	940.3	1034.3	1116.2	1187.6
132.5°	449.3	477.2	553.7	653.0	748.8	795.8	841.1	933.4	1023.9	1104.0	1171.9
135°	468.4	491.0	562.5	656.5	747.0	792.3	834.1	921.1	1008.3	1086.6	1152.8
137.5°	485.8	505.0	569.4	658.3	745.3	787.1	828.9	907.3	989.1	1065.7	1130.2
140°	501.5	518.9	572.9	658.3	738.4	780.1	818.5	893.3	968.2	1041.3	1104.0
142.5°	515.4	531.1	578.1	654.7	731.4	771.4	808.0	879.4	947.3	1017.0	1077.9
145°	529.4	541.5	581.6	653.0	722.6	759.2	794.1	862.0	928.1	990.8	1048.3
147.5°	539.9	552.1	585.1	646.1	712.2	745.3	778.4	842.8	903.8	963.0	1015.2
150°	550.3	560.7	586.8	639.1	700.0	729.6	759.2	820.2	879.4	933.4	982.2
152.5°	560.7	567.7	592.1	632.1	686.1	714.0	743.6	797.5	851.6	902.1	949.0
155°	567.7	572.9	593.8	625.2	672.1	696.5	721.0	771.4	820.2	867.2	910.7
157.5°	574.7	579.9	595.6	620.0	656.5	679.1	700.0	743.6	788.9	830.6	870.7
160°	579.9	583.4	595.6	616.4	642.6	658.3	677.4	717.4	755.8	792.3	827.2
162.5°	585.1	586.8	595.6	611.2	630.4	640.8	654.7	686.1	721.0	752.3	783.7
165°	588.6	590.3	595.6	607.8	620.0	628.6	635.6	658.3	684.3	712.2	738.4
167.5°	592.1	592.1	595.6	604.2	611.2	616.4	621.6	633.8	651.3	672.1	691.3
170°	593.8	593.8	595.6	600.8	606.0	607.8	611.2	618.2	626.9	637.3	649.5
172.5°	593.8	593.8	593.8	597.3	599.0	599.0	599.0	602.6	607.8	614.7	620.0
175°	593.8	592.1	592.1	593.8	592.1	592.1	592.1	592.1	593.8	597.3	599.0
177.5°	593.8	592.1	590.3	590.3	588.6	588.6	586.8	586.8	586.8	586.8	586.8
180°	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8
2.5°	386.6	386.6	384.8	383.1	383.1	383.1	381.4	379.6	377.8	377.8
5°	386.6	386.6	384.8	384.8	384.8	384.8	383.1	383.1	381.4	381.4
7.5°	388.3	386.6	386.6	386.6	386.6	386.6	386.6	386.6	384.8	384.8
10°	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3
12.5°	390.1	390.1	390.1	390.1	391.8	391.8	391.8	391.8	391.8	391.8
15°	390.1	391.8	393.6	393.6	393.6	395.3	395.3	395.3	395.3	395.3
17.5°	391.8	393.6	395.3	395.3	397.0	397.0	398.8	398.8	398.8	398.8
20°	391.8	393.6	395.3	397.0	398.8	398.8	400.5	402.3	402.3	400.5
22.5°	390.1	393.6	395.3	397.0	398.8	400.5	402.3	404.0	404.0	404.0
25°	388.3	391.8	395.3	398.8	398.8	400.5	404.0	404.0	404.0	404.0
27.5°	386.6	390.1	393.6	397.0	398.8	400.5	402.3	404.0	404.0	404.0
30°	383.1	388.3	391.8	395.3	397.0	398.8	400.5	402.3	402.3	402.3
32.5°	377.8	383.1	386.6	391.8	393.6	395.3	397.0	398.8	398.8	398.8
35°	372.6	377.8	381.4	386.6	388.3	390.1	393.6	393.6	395.3	395.3
37.5°	364.0	370.9	374.4	379.6	381.4	383.1	386.6	388.3	388.3	388.3
40°	355.2	362.2	365.7	370.9	372.6	374.4	377.8	379.6	381.4	381.4
42.5°	344.8	351.8	355.2	360.4	362.2	364.0	367.4	369.2	370.9	370.9
45°	334.3	339.6	343.0	348.3	351.8	351.8	355.2	357.0	358.8	358.8
47.5°	320.4	325.7	329.1	334.3	337.8	339.6	341.3	343.0	344.8	344.8
50°	304.7	309.9	315.2	318.7	322.1	322.1	325.7	327.4	329.1	329.1
52.5°	289.1	292.5	297.7	303.0	304.7	306.5	308.3	309.9	311.7	311.7
55°	271.6	275.1	280.4	283.9	285.6	287.3	289.1	290.8	292.5	292.5
57.5°	252.5	256.0	261.2	264.7	266.4	268.2	269.9	271.6	273.4	273.4
60°	231.6	235.1	240.4	243.8	245.6	245.6	249.0	250.8	250.8	250.8
62.5°	210.7	214.2	217.7	221.2	222.9	224.6	226.4	228.1	228.1	228.1
65°	189.8	193.3	196.7	198.5	200.3	200.3	202.0	203.7	205.5	205.5
67.5°	167.2	170.7	174.1	175.9	177.7	177.7	179.3	181.1	181.1	181.1
70°	144.5	146.3	149.8	151.5	153.2	153.2	156.7	156.7	156.7	156.7
72.5°	121.9	123.6	127.2	128.8	130.6	130.6	132.4	134.1	134.1	134.1
75°	101.0	102.8	104.5	108.0	108.0	108.0	109.7	111.4	111.4	111.4
77.5°	80.1	81.9	83.6	85.3	87.1	87.1	88.8	90.5	90.5	90.5
80°	60.9	62.7	64.5	66.1	66.1	67.9	67.9	69.7	69.7	69.7
82.5°	43.5	45.3	47.0	48.7	50.5	50.5	52.3	54.0	54.0	52.3
85°	29.6	33.1	34.8	36.6	36.6	36.6	38.3	40.1	40.1	38.3
87.5°	20.9	20.9	22.6	24.4	24.4	26.1	26.1	27.9	27.9	27.9
90°	12.2	12.2	14.0	14.0	15.6	15.6	15.6	17.4	17.4	17.4
92.5°	29.6	29.6	31.3	31.3	31.3	31.3	33.1	33.1	33.1	33.1
95°	316.9	142.8	120.2	73.1	69.7	60.9	59.2	60.9	60.9	59.2
97.5°	1064.0	1138.9	1185.9	1208.5	1180.7	1151.1	1118.0	1112.8	1067.5	966.4
100°	1147.5	1206.8	1264.3	1304.3	1320.0	1333.9	1365.2	1384.4	1393.1	1401.9
102.5°	1189.4	1252.0	1302.5	1353.0	1373.9	1393.1	1420.9	1443.6	1452.3	1459.2
105°	1226.0	1290.3	1346.0	1391.3	1410.5	1427.9	1455.8	1476.7	1492.4	1494.1
107.5°	1234.6	1302.5	1365.2	1420.9	1443.6	1462.8	1495.8	1511.5	1525.5	1525.5
110°	1250.3	1314.7	1372.2	1422.7	1445.4	1468.0	1502.8	1527.1	1541.1	1544.6



TEST NUMBER: P395071

CATALOG NUMBER: I3-UL-80L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1262.5	1328.7	1382.7	1433.1	1452.3	1473.2	1506.3	1528.9	1541.1	1546.3
115°	1272.9	1337.4	1391.3	1438.4	1459.2	1480.2	1513.3	1532.4	1546.3	1551.6
117.5°	1279.9	1342.6	1396.6	1440.1	1462.8	1480.2	1511.5	1532.4	1546.3	1548.1
120°	1281.7	1344.4	1396.6	1440.1	1459.2	1478.4	1509.8	1530.7	1544.6	1544.6
122.5°	1281.7	1342.6	1394.9	1436.6	1454.0	1471.4	1501.1	1525.5	1537.7	1537.7
125°	1274.7	1335.6	1386.1	1427.9	1445.4	1461.0	1492.4	1515.0	1527.1	1528.9
127.5°	1264.3	1323.4	1373.9	1415.7	1433.1	1447.1	1480.2	1501.1	1513.3	1515.0
130°	1250.3	1309.5	1358.2	1398.3	1415.7	1431.4	1459.2	1481.9	1495.8	1499.3
132.5°	1234.6	1290.3	1339.2	1377.4	1394.9	1408.7	1436.6	1459.2	1471.4	1476.7
135°	1215.4	1267.7	1314.7	1353.0	1370.5	1384.4	1410.5	1433.1	1445.4	1450.6
137.5°	1191.1	1241.6	1286.9	1325.2	1340.8	1354.8	1380.9	1401.9	1412.3	1419.2
140°	1163.3	1210.2	1257.3	1292.1	1307.8	1321.7	1344.4	1367.0	1377.4	1382.7
142.5°	1133.6	1180.7	1222.4	1257.3	1271.2	1285.1	1307.8	1328.7	1339.2	1340.8
145°	1102.2	1147.5	1185.9	1219.0	1231.2	1245.1	1266.0	1286.9	1297.3	1299.1
147.5°	1067.5	1109.2	1145.9	1177.1	1191.1	1201.6	1220.7	1239.8	1250.3	1252.0
150°	1027.4	1065.7	1098.8	1130.2	1142.3	1152.8	1173.7	1191.1	1201.6	1203.3
152.5°	989.1	1025.7	1053.5	1081.4	1093.6	1104.0	1121.4	1138.9	1149.3	1151.1
155°	949.0	982.2	1010.0	1032.7	1043.1	1053.5	1067.5	1083.2	1091.8	1093.6
157.5°	907.3	938.6	963.0	983.8	994.3	1003.0	1015.2	1029.1	1034.3	1037.9
160°	862.0	888.1	909.0	929.9	938.6	947.3	959.5	970.0	977.0	978.6
162.5°	813.2	835.8	853.2	872.4	877.6	884.6	896.8	907.3	912.5	914.3
165°	762.7	783.7	799.3	814.9	818.5	823.7	832.4	842.8	846.3	849.8
167.5°	712.2	729.6	740.0	754.0	759.2	762.7	771.4	778.4	781.9	783.7
170°	663.5	675.7	684.3	694.8	696.5	701.8	707.0	714.0	715.7	715.7
172.5°	625.2	630.4	635.6	639.1	640.8	642.6	646.1	647.8	647.8	647.8
175°	600.8	604.2	604.2	606.0	606.0	606.0	606.0	606.0	606.0	606.0
177.5°	586.8	586.8	586.8	585.1	585.1	585.1	585.1	583.4	583.4	583.4
180°	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4

(END OF REPORT)