

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: P393800

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

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393800
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-80L835-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
8000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

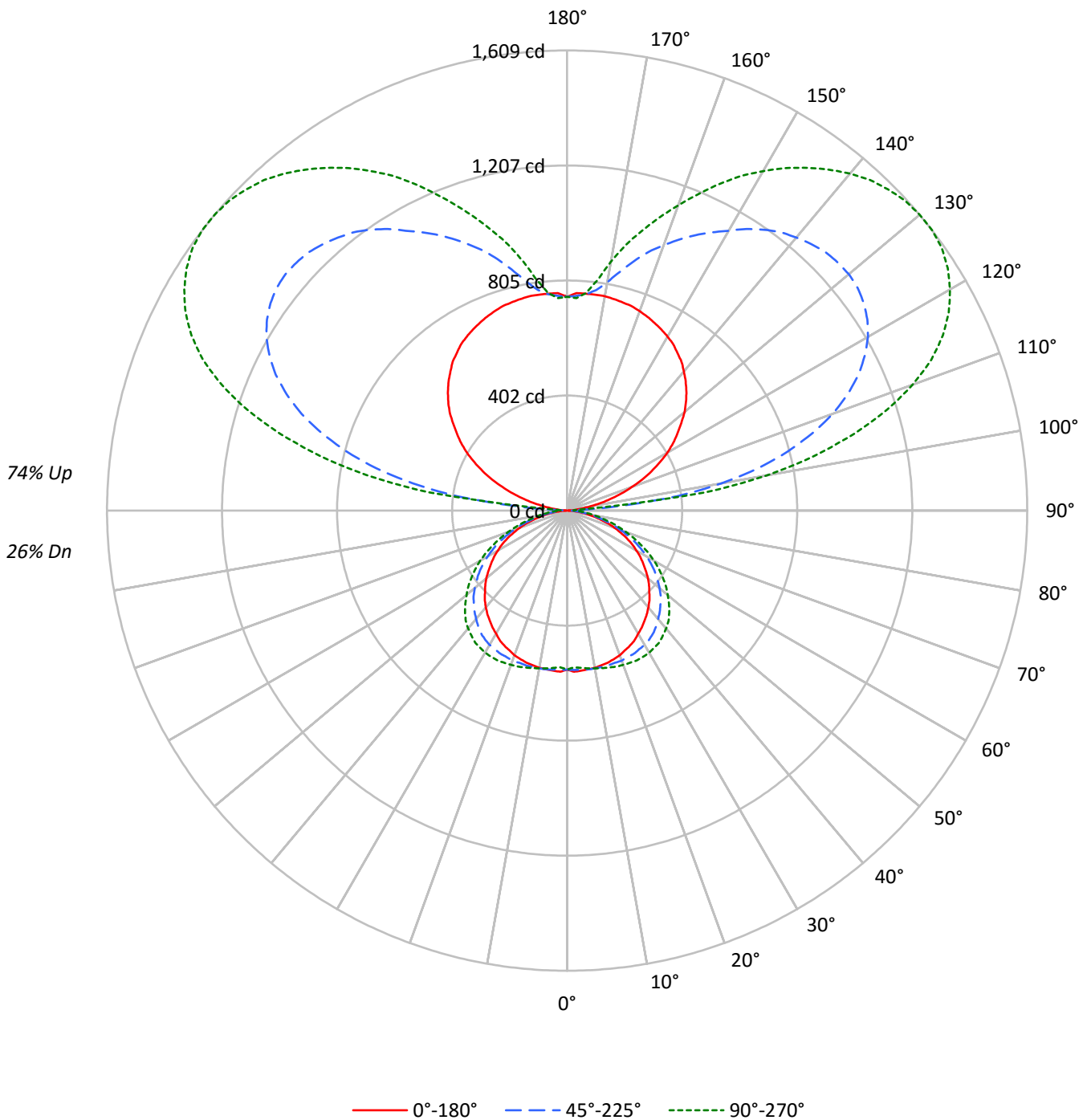
Lumens per Lamp: N/A
Luminaire Lumens: 7328.7 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (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	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°	3057	3057	3057
5°	3090	3009	2960
10°	3092	2986	2953
15°	3096	2975	2967
20°	3101	2977	2994
25°	3096	2980	3033
30°	3079	2984	3055
35°	3071	2968	3058
40°	3061	2904	3019
45°	3029	2834	2944
50°	3001	2740	2812
55°	2940	2603	2650
60°	2867	2420	2446
65°	2750	2173	2169
70°	2554	1850	1836
75°	2205	1471	1474
80°	1711	1045	1080
85°	1006	647	724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	0.7
10°-20°	158.1	2.2
20°-30°	253.5	3.5
30°-40°	324.2	4.4
40°-50°	353.4	4.8
50°-60°	331.2	4.5
60°-70°	256.9	3.5
70°-80°	147.3	2.0
80°-90°	47.1	0.6
90°-100°	189.0	2.6
100°-110°	734.8	10.0
110°-120°	1000.4	13.6
120°-130°	1038.4	14.2
130°-140°	921.1	12.6
140°-150°	714.7	9.8
150°-160°	477.0	6.5
160°-170°	254.2	3.5
170°-180°	74.4	1.0
0°-30°	464.8	6.3
0°-40°	788.9	10.8
0°-60°	1473.5	20.1
0°-90°	1924.8	26.3
90°-120°	1924.1	26.3
90°-150°	4598.3	62.7
90°-180°	5404.0	73.7
0°-180°	7328.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	562	556	558	556	552	54
15°	550	548	560	568	568	155
25°	521	525	552	572	578	240
35°	471	481	525	552	562	295
45°	406	424	462	491	505	314
55°	325	343	375	400	408	291
65°	231	241	262	280	286	227
75°	120	126	138	152	156	128
85°	24	28	41	53	55	28
90°	2	6	14	20	24	3
95°	24	134	183	38	36	31
105°	156	471	799	949	1039	166
115°	325	728	1124	1321	1450	321
125°	471	858	1266	1487	1599	422
135°	590	903	1278	1499	1588	454
145°	672	903	1199	1392	1463	421
155°	724	854	1063	1205	1260	334
165°	753	785	903	988	1014	213
175°	761	757	759	763	763	73
180°	747	747	747	747	747	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	564.0	562.1	562.1	558.1	558.1	556.1	556.1	556.1	556.1	556.1	558.1
5°	562.1	562.1	560.1	558.1	558.1	556.1	556.1	556.1	556.1	556.1	558.1
7.5°	560.1	560.1	558.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	560.1
10°	558.1	558.1	556.1	554.2	554.2	554.2	554.2	556.1	556.1	556.1	560.1
12.5°	554.2	552.2	552.2	550.2	550.2	550.2	552.2	552.2	554.2	556.1	560.1
15°	550.2	550.2	548.2	546.3	548.2	548.2	548.2	550.2	552.2	554.2	560.1
17.5°	544.3	544.3	542.3	542.3	542.3	544.3	544.3	546.3	550.2	554.2	558.1
20°	538.4	536.4	536.4	536.4	538.4	538.4	540.4	544.3	546.3	552.2	558.1
22.5°	528.5	530.5	528.5	528.5	530.5	532.5	534.4	538.4	542.3	548.2	554.2
25°	520.6	520.6	520.6	520.6	524.6	524.6	528.5	532.5	538.4	544.3	552.2
27.5°	510.8	510.8	510.8	512.7	514.7	516.7	518.7	524.6	530.5	538.4	546.3
30°	497.0	497.0	497.0	497.0	502.9	504.9	508.8	516.7	522.6	532.5	542.3
32.5°	485.1	485.1	485.1	487.1	491.1	493.0	497.0	506.8	514.7	524.6	534.4
35°	471.3	471.3	473.3	473.3	479.2	481.2	485.1	493.0	500.9	512.7	524.6
37.5°	457.5	457.5	459.5	461.5	465.4	469.4	473.3	481.2	489.1	498.9	510.8
40°	441.8	441.8	443.7	445.7	451.6	455.6	459.5	467.4	475.3	485.1	495.0
42.5°	426.0	426.0	427.9	429.9	435.8	439.8	443.7	453.6	461.5	471.3	479.2
45°	406.3	408.2	410.2	414.1	420.1	424.0	427.9	435.8	445.7	453.6	461.5
47.5°	388.5	390.5	392.5	396.4	402.3	406.3	410.2	418.1	426.0	433.9	443.7
50°	368.8	370.8	372.7	376.7	382.6	386.5	390.5	398.4	406.3	412.2	422.0
52.5°	347.1	349.1	351.0	355.0	362.9	364.8	368.8	376.7	382.6	390.5	398.4
55°	325.4	327.4	329.3	333.3	339.2	343.1	345.1	353.0	358.9	366.8	374.7
57.5°	303.7	305.7	307.6	311.6	315.5	319.5	321.5	327.4	335.3	341.2	349.1
60°	280.0	282.0	284.0	286.0	291.9	293.8	295.8	301.7	307.6	315.5	321.5
62.5°	256.4	256.4	258.3	260.3	266.2	268.2	270.2	274.1	282.0	286.0	291.9
65°	230.7	230.7	232.7	234.7	238.6	240.6	242.6	246.5	252.4	256.4	262.3
67.5°	203.1	203.1	205.1	207.1	211.0	213.0	213.0	218.9	222.8	226.8	230.7
70°	177.5	177.5	179.5	179.5	181.4	183.4	185.4	189.3	191.3	197.2	199.2
72.5°	149.9	149.9	149.9	149.9	153.8	153.8	155.8	159.7	161.7	165.7	169.6
75°	120.3	120.3	122.3	122.3	124.2	126.2	128.2	130.2	134.1	136.1	138.0
77.5°	94.7	92.7	94.7	96.6	98.6	98.6	100.6	102.5	104.5	108.5	110.4
80°	67.1	67.1	67.1	69.0	71.0	71.0	73.0	74.9	76.9	80.9	82.8
82.5°	43.4	43.4	45.4	45.4	47.3	49.3	49.3	51.3	53.2	57.2	59.2
85°	23.7	23.7	23.7	25.6	27.6	27.6	29.6	31.6	35.5	37.5	41.4
87.5°	7.9	7.9	9.9	11.8	13.8	13.8	15.8	17.7	19.7	23.7	25.6
90°	2.0	2.0	2.0	3.9	3.9	5.9	5.9	7.9	9.9	11.8	13.8
92.5°	7.9	13.8	21.7	31.6	29.6	31.6	21.7	13.8	13.8	13.8	15.8
95°	23.7	35.5	57.2	90.7	118.3	134.1	147.9	161.7	189.3	191.3	183.4
97.5°	47.3	65.1	104.5	147.9	197.2	222.8	242.6	284.0	327.4	355.0	388.5
100°	78.9	104.5	155.8	215.0	272.2	305.7	337.2	396.4	449.6	497.0	548.2
102.5°	116.4	145.9	209.0	282.0	353.0	390.5	424.0	493.0	566.0	629.1	684.3
105°	155.8	189.3	264.3	347.1	427.9	471.3	512.7	587.7	664.6	733.6	798.7
107.5°	199.2	234.7	315.5	408.2	498.9	548.2	593.6	674.5	755.3	830.3	899.3
110°	240.6	280.0	364.8	465.4	568.0	617.3	662.6	751.4	836.2	915.1	988.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	284.0	325.4	410.2	520.6	625.2	676.4	723.8	818.4	907.2	988.0	1061.0
115°	325.4	364.8	453.6	568.0	674.5	727.7	779.0	875.6	968.3	1049.2	1124.1
117.5°	364.8	402.3	493.0	607.4	717.8	771.1	822.4	922.9	1015.6	1100.4	1173.4
120°	404.3	437.8	536.4	640.9	753.3	806.6	859.8	960.4	1055.1	1139.9	1214.8
122.5°	439.8	471.3	568.0	670.5	781.0	836.2	887.5	990.0	1086.6	1171.4	1244.4
125°	471.3	500.9	597.6	694.2	804.6	857.9	911.1	1011.7	1108.3	1191.2	1266.1
127.5°	502.9	532.5	619.2	717.8	820.4	875.6	926.9	1027.5	1122.1	1206.9	1279.9
130°	536.4	558.1	640.9	739.5	836.2	887.5	940.7	1037.3	1130.0	1212.8	1285.8
132.5°	564.0	583.7	662.6	757.3	848.0	897.3	944.6	1041.3	1134.0	1212.8	1283.8
135°	589.7	605.4	678.4	773.1	857.9	903.2	948.6	1039.3	1130.0	1208.9	1277.9
137.5°	613.3	629.1	692.2	784.9	865.8	905.2	948.6	1033.4	1120.2	1199.0	1264.1
140°	635.0	646.9	704.0	790.8	869.7	907.2	944.6	1023.5	1104.4	1181.3	1246.4
142.5°	656.7	666.6	713.9	794.8	871.7	907.2	942.7	1011.7	1086.6	1161.6	1226.7
145°	672.5	682.4	721.8	796.7	869.7	903.2	934.8	999.9	1066.9	1135.9	1199.0
147.5°	690.2	698.1	729.7	792.8	863.8	895.3	924.9	984.1	1045.2	1108.3	1167.5
150°	702.1	710.0	733.6	788.8	853.9	883.5	913.1	968.3	1023.5	1078.7	1130.0
152.5°	713.9	719.8	739.5	782.9	842.1	869.7	897.3	950.6	1001.8	1051.1	1096.5
155°	723.8	729.7	743.5	779.0	828.3	853.9	879.6	930.8	978.2	1021.6	1063.0
157.5°	733.6	737.6	747.4	773.1	812.5	836.2	859.8	905.2	948.6	992.0	1025.5
160°	741.5	743.5	751.4	771.1	798.7	816.5	838.1	879.6	919.0	956.5	988.0
162.5°	749.4	749.4	755.3	767.2	786.9	798.7	814.5	850.0	885.5	919.0	948.6
165°	753.3	753.3	757.3	765.2	777.0	784.9	794.8	818.4	846.0	875.6	903.2
167.5°	757.3	757.3	759.3	763.2	771.1	775.0	779.0	794.8	812.5	834.2	855.9
170°	761.2	759.3	759.3	763.2	765.2	767.2	769.1	777.0	784.9	798.7	810.5
172.5°	761.2	759.3	759.3	761.2	761.2	761.2	761.2	763.2	765.2	773.1	777.0
175°	761.2	759.3	759.3	759.3	759.3	757.3	757.3	757.3	757.3	757.3	759.3
177.5°	761.2	759.3	757.3	757.3	755.3	755.3	753.3	753.3	751.4	751.4	751.4
180°	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	558.1	558.1	556.1	556.1	554.2	554.2	552.2	550.2	548.2	548.2
5°	560.1	558.1	556.1	556.1	556.1	554.2	554.2	554.2	552.2	552.2
7.5°	560.1	560.1	560.1	558.1	558.1	558.1	558.1	558.1	556.1	556.1
10°	562.1	562.1	562.1	562.1	562.1	562.1	562.1	560.1	560.1	560.1
12.5°	562.1	562.1	562.1	564.0	564.0	564.0	564.0	564.0	564.0	564.0
15°	564.0	564.0	566.0	566.0	568.0	568.0	569.9	569.9	569.9	568.0
17.5°	562.1	564.0	566.0	568.0	569.9	569.9	571.9	571.9	571.9	571.9
20°	562.1	566.0	568.0	569.9	571.9	571.9	573.9	575.9	575.9	573.9
22.5°	560.1	564.0	566.0	569.9	571.9	571.9	575.9	575.9	575.9	575.9
25°	558.1	562.1	566.0	569.9	571.9	571.9	575.9	575.9	577.8	577.8
27.5°	554.2	558.1	564.0	568.0	569.9	571.9	573.9	575.9	575.9	575.9
30°	548.2	554.2	560.1	564.0	566.0	568.0	569.9	571.9	573.9	573.9
32.5°	540.4	546.3	552.2	558.1	560.1	562.1	566.0	568.0	568.0	568.0
35°	532.5	538.4	544.3	550.2	552.2	554.2	558.1	560.1	562.1	562.1
37.5°	520.6	526.6	532.5	538.4	540.4	544.3	548.2	550.2	550.2	550.2
40°	502.9	512.7	520.6	526.6	528.5	532.5	534.4	538.4	538.4	538.4
42.5°	487.1	495.0	500.9	508.8	510.8	516.7	520.6	522.6	524.6	524.6
45°	469.4	477.3	483.2	489.1	491.1	495.0	498.9	500.9	502.9	504.9
47.5°	451.6	457.5	463.4	469.4	471.3	475.3	479.2	481.2	483.2	483.2
50°	429.9	435.8	441.8	447.7	449.6	453.6	455.6	457.5	459.5	459.5
52.5°	406.3	412.2	418.1	424.0	426.0	427.9	431.9	433.9	435.8	435.8
55°	382.6	388.5	392.5	398.4	400.3	402.3	404.3	408.2	410.2	408.2
57.5°	355.0	360.9	364.8	370.8	372.7	374.7	376.7	378.6	380.6	380.6
60°	325.4	331.3	337.2	341.2	343.1	345.1	347.1	349.1	351.0	351.0
62.5°	295.8	301.7	305.7	311.6	313.6	313.6	315.5	317.5	319.5	319.5
65°	266.2	272.2	274.1	280.0	280.0	282.0	284.0	286.0	286.0	286.0
67.5°	234.7	240.6	242.6	246.5	246.5	248.5	250.5	252.4	252.4	252.4
70°	205.1	207.1	211.0	213.0	215.0	215.0	216.9	218.9	220.9	218.9
72.5°	173.5	175.5	179.5	181.4	181.4	183.4	183.4	185.4	187.4	187.4
75°	142.0	145.9	147.9	149.9	151.9	151.9	153.8	155.8	155.8	155.8
77.5°	112.4	116.4	118.3	120.3	122.3	122.3	124.2	124.2	126.2	124.2
80°	86.8	88.7	90.7	92.7	94.7	94.7	96.6	98.6	98.6	98.6
82.5°	63.1	65.1	69.0	71.0	71.0	71.0	74.9	74.9	76.9	74.9
85°	43.4	45.4	49.3	51.3	53.2	53.2	53.2	55.2	57.2	55.2
87.5°	27.6	31.6	33.5	35.5	35.5	35.5	37.5	39.4	39.4	39.4
90°	15.8	15.8	17.7	19.7	19.7	21.7	21.7	23.7	23.7	23.7
92.5°	15.8	17.7	17.7	17.7	19.7	19.7	19.7	21.7	21.7	21.7
95°	134.1	96.6	55.2	43.4	37.5	37.5	35.5	37.5	35.5	35.5
97.5°	406.3	439.8	455.6	477.3	489.1	487.1	479.2	487.1	481.2	487.1
100°	577.8	609.4	633.0	639.0	650.8	656.7	678.4	694.2	702.1	711.9
102.5°	717.8	755.3	782.9	798.7	810.5	818.4	844.1	867.7	879.6	887.5
105°	846.0	885.5	919.0	934.8	948.6	956.5	984.1	1011.7	1029.4	1039.3
107.5°	948.6	993.9	1029.4	1053.1	1066.9	1080.7	1114.2	1141.9	1163.5	1173.4
110°	1041.3	1086.6	1124.1	1151.7	1167.5	1181.3	1218.8	1250.3	1274.0	1285.8



TEST NUMBER: P393800

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1118.2	1167.5	1205.0	1234.5	1250.3	1270.0	1305.5	1341.0	1364.7	1378.5
115°	1181.3	1232.6	1272.0	1303.6	1321.3	1339.1	1380.5	1416.0	1439.6	1449.5
117.5°	1234.5	1285.8	1327.2	1358.8	1378.5	1398.2	1439.6	1471.2	1496.8	1504.7
120°	1277.9	1329.2	1370.6	1406.1	1425.8	1443.6	1483.0	1516.6	1540.2	1546.1
122.5°	1307.5	1360.8	1404.1	1443.6	1461.3	1479.1	1516.6	1550.1	1571.8	1577.7
125°	1329.2	1384.4	1427.8	1469.2	1487.0	1504.7	1540.2	1573.7	1591.5	1599.4
127.5°	1343.0	1398.2	1445.6	1485.0	1504.7	1520.5	1556.0	1585.6	1603.3	1609.2
130°	1347.0	1404.1	1451.5	1492.9	1510.6	1526.4	1559.9	1589.5	1605.3	1609.2
132.5°	1347.0	1402.2	1451.5	1490.9	1508.7	1524.4	1556.0	1583.6	1599.4	1603.3
135°	1339.1	1392.3	1441.6	1481.1	1498.8	1514.6	1546.1	1569.8	1585.6	1587.6
137.5°	1325.3	1376.5	1423.9	1463.3	1481.1	1496.8	1524.4	1550.1	1563.9	1567.8
140°	1307.5	1354.8	1402.2	1439.6	1457.4	1471.2	1498.8	1520.5	1534.3	1538.2
142.5°	1283.8	1331.2	1374.6	1412.0	1425.8	1441.6	1465.3	1487.0	1498.8	1502.8
145°	1258.2	1303.6	1343.0	1376.5	1392.3	1406.1	1427.8	1447.5	1459.4	1463.3
147.5°	1224.7	1270.0	1307.5	1339.1	1352.9	1366.7	1386.4	1404.1	1416.0	1419.9
150°	1183.3	1224.7	1264.1	1293.7	1307.5	1321.3	1341.0	1356.8	1368.6	1370.6
152.5°	1141.9	1181.3	1214.8	1244.4	1258.2	1272.0	1289.8	1305.5	1319.3	1319.3
155°	1102.4	1135.9	1167.5	1193.1	1205.0	1216.8	1234.5	1248.3	1260.2	1260.2
157.5°	1061.0	1092.6	1118.2	1141.9	1151.7	1161.6	1177.4	1189.2	1199.0	1197.1
160°	1021.6	1045.2	1068.9	1088.6	1098.5	1106.4	1118.2	1128.0	1137.9	1135.9
162.5°	978.2	999.9	1019.6	1033.4	1041.3	1047.2	1059.0	1068.9	1074.8	1074.8
165°	928.9	948.6	966.3	980.1	988.0	992.0	1001.8	1007.8	1013.7	1013.7
167.5°	877.6	893.4	909.1	921.0	928.9	932.8	942.7	946.6	954.5	952.5
170°	826.3	838.1	850.0	859.8	863.8	867.7	875.6	879.6	883.5	883.5
172.5°	784.9	788.8	794.8	802.7	802.7	804.6	808.6	810.5	812.5	812.5
175°	761.2	763.2	763.2	763.2	763.2	763.2	765.2	763.2	765.2	763.2
177.5°	751.4	751.4	749.4	749.4	747.4	749.4	747.4	745.5	745.5	743.5
180°	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4

(END OF REPORT)