

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: P393817

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

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-80L830-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6949.8 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

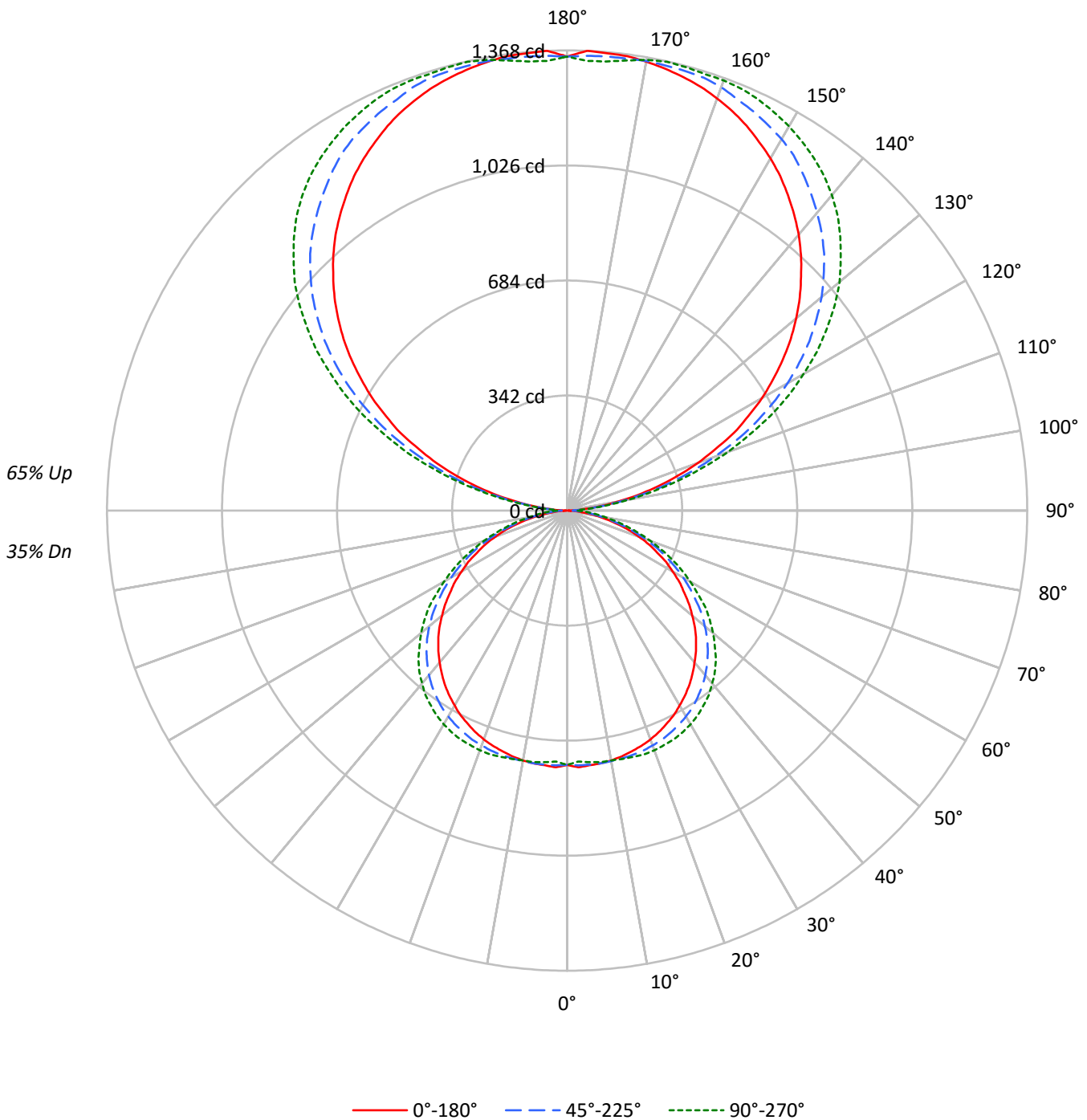
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4156	4156	4156
5°	4178	4088	4024
10°	4179	4032	3976
15°	4169	3997	3960
20°	4170	3962	3955
25°	4159	3927	3939
30°	4144	3890	3903
35°	4125	3828	3846
40°	4083	3747	3762
45°	4041	3631	3646
50°	3949	3470	3468
55°	3835	3251	3260
60°	3706	2996	2945
65°	3524	2685	2616
70°	3272	2289	2209
75°	2848	1819	1757
80°	2224	1291	1287
85°	1205	740	844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.0
10°-20°	212.1	3.1
20°-30°	334.4	4.8
30°-40°	420.3	6.0
40°-50°	451.9	6.5
50°-60°	415.7	6.0
60°-70°	318.5	4.6
70°-80°	181.3	2.6
80°-90°	56.6	0.8
90°-100°	75.7	1.1
100°-110°	329.4	4.7
110°-120°	603.0	8.7
120°-130°	777.2	11.2
130°-140°	827.0	11.9
140°-150°	760.9	10.9
150°-160°	602.8	8.7
160°-170°	381.7	5.5
170°-180°	129.2	1.9
0°-30°	618.6	8.9
0°-40°	1038.8	14.9
0°-60°	1906.4	27.4
0°-90°	2462.9	35.4
90°-120°	1008.1	14.5
90°-150°	3373.2	48.5
90°-180°	4487.0	64.6
0°-180°	6949.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	760	752	758	754	750	72
15°	741	737	752	758	758	209
25°	699	701	728	745	750	323
35°	633	641	677	699	707	396
45°	542	555	591	616	625	417
55°	424	442	468	493	502	380
65°	296	305	324	339	345	293
75°	155	159	171	180	186	164
85°	28	36	47	61	64	36
90°	2	6	17	25	28	4
95°	51	49	55	62	64	64
105°	279	292	315	334	339	296
115°	548	572	618	650	667	537
125°	783	817	879	923	942	699
135°	984	1016	1080	1126	1148	759
145°	1145	1169	1222	1258	1279	716
155°	1262	1277	1310	1336	1348	582
165°	1334	1334	1353	1363	1364	377
175°	1364	1355	1355	1349	1340	130
180°	1349	1349	1349	1349	1349	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	756.2	756.2	756.2	756.2	756.2	756.2	756.2	756.2	756.2	756.2	756.2
2.5°	763.8	761.9	760.0	756.2	756.2	754.3	754.3	754.3	754.3	756.2	758.1
5°	760.0	760.0	758.1	754.3	754.3	752.4	752.4	754.3	752.4	754.3	758.1
7.5°	758.1	758.1	756.2	752.4	752.4	752.4	752.4	752.4	752.4	754.3	758.1
10°	754.3	754.3	750.5	748.6	748.6	748.6	748.6	750.5	750.5	752.4	756.2
12.5°	748.6	746.7	744.8	742.9	742.9	742.9	744.8	746.7	746.7	750.5	754.3
15°	741.0	741.0	739.1	737.2	737.2	737.2	739.1	741.0	742.9	746.7	752.4
17.5°	733.4	733.4	731.5	731.5	731.5	731.5	733.4	735.3	739.1	742.9	748.6
20°	724.0	724.0	722.1	722.1	722.1	724.0	724.0	727.8	731.5	737.2	742.9
22.5°	712.6	712.6	712.6	710.7	712.6	714.5	716.4	720.2	724.0	729.7	737.2
25°	699.3	699.3	699.3	699.3	701.2	701.2	705.0	708.8	712.6	720.2	727.8
27.5°	686.1	686.1	686.1	684.2	688.0	689.9	691.7	697.4	701.2	710.7	718.3
30°	669.0	669.0	669.0	670.9	672.8	674.7	678.5	684.2	688.0	697.4	706.9
32.5°	651.9	651.9	651.9	651.9	657.6	659.5	661.4	667.1	674.7	684.2	693.6
35°	633.0	633.0	633.0	634.9	638.7	640.6	644.4	650.1	657.6	667.1	676.6
37.5°	612.2	614.0	614.0	615.9	619.7	623.5	627.3	633.0	640.6	650.1	659.5
40°	589.4	591.3	591.3	593.2	597.0	600.8	604.6	612.2	619.7	629.2	638.7
42.5°	566.7	568.6	568.6	572.4	576.1	579.9	583.7	591.3	598.9	608.4	615.9
45°	542.0	543.9	543.9	547.7	553.4	555.3	561.0	568.6	576.1	583.7	591.3
47.5°	515.5	517.4	517.4	521.2	526.9	530.7	534.4	542.0	547.7	557.2	564.8
50°	485.2	487.1	489.0	492.8	500.3	504.1	507.9	513.6	521.2	526.9	534.4
52.5°	456.7	456.7	458.6	462.4	468.1	471.9	473.8	479.5	489.0	496.5	504.1
55°	424.5	426.4	428.3	432.1	437.8	441.6	443.5	449.2	454.8	460.5	468.1
57.5°	396.1	396.1	398.0	401.8	407.5	409.4	411.3	415.0	422.6	428.3	434.0
60°	362.0	363.9	365.8	369.6	373.4	377.1	377.1	382.8	388.5	394.2	398.0
62.5°	331.7	331.7	333.6	337.3	339.2	343.0	343.0	348.7	352.5	358.2	362.0
65°	295.7	297.5	299.4	301.3	305.1	305.1	307.0	310.8	314.6	318.4	324.1
67.5°	263.4	263.4	265.3	267.2	269.1	269.1	271.0	274.8	278.6	282.4	286.2
70°	227.4	229.3	229.3	229.3	231.2	233.1	235.0	236.9	240.7	242.6	246.4
72.5°	191.4	191.4	193.3	193.3	195.2	197.1	199.0	200.9	202.8	206.6	208.5
75°	155.4	155.4	157.3	157.3	159.2	159.2	159.2	163.0	164.9	168.7	170.6
77.5°	119.4	121.3	121.3	121.3	123.2	125.1	125.1	127.0	130.8	132.7	134.6
80°	87.2	87.2	87.2	87.2	89.1	91.0	92.9	92.9	96.7	100.4	102.3
82.5°	55.0	55.0	56.9	58.8	58.8	60.6	62.5	64.4	68.2	70.1	72.0
85°	28.4	28.4	30.3	32.2	34.1	36.0	36.0	37.9	41.7	45.5	47.4
87.5°	9.5	11.4	11.4	13.3	15.2	17.1	19.0	20.8	24.6	28.4	30.3
90°	1.9	1.9	1.9	3.8	5.7	5.7	7.6	9.5	11.4	13.3	17.1
92.5°	17.1	17.1	15.2	17.1	17.1	17.1	17.1	19.0	20.8	20.8	24.6
95°	51.2	49.3	49.3	49.3	49.3	49.3	49.3	51.2	53.1	53.1	55.0
97.5°	98.6	98.6	96.7	96.7	98.6	98.6	98.6	100.4	104.2	102.3	106.1
100°	153.5	153.5	151.6	153.5	155.4	157.3	161.1	161.1	164.9	164.9	170.6
102.5°	216.1	216.1	214.2	217.9	219.8	223.6	223.6	227.4	233.1	233.1	240.7
105°	278.6	280.5	280.5	284.3	288.1	291.9	291.9	297.5	305.1	305.1	314.6
107.5°	346.8	348.7	348.7	352.5	356.3	360.1	362.0	369.6	377.1	379.0	390.4
110°	413.2	415.0	416.9	420.7	424.5	430.2	434.0	441.6	451.1	454.8	464.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	475.7	483.3	485.2	490.9	496.5	502.2	506.0	515.5	526.9	532.6	543.9
115°	547.7	551.5	553.4	559.1	566.7	572.4	576.1	585.6	597.0	604.6	617.8
117.5°	606.5	615.9	617.8	623.5	631.1	636.8	640.6	651.9	665.2	674.7	688.0
120°	669.0	676.6	684.2	688.0	693.6	701.2	705.0	716.4	731.5	741.0	756.2
122.5°	725.9	733.4	741.0	746.7	754.3	758.1	763.8	777.0	792.2	803.6	818.7
125°	782.7	792.2	797.9	803.6	813.0	816.8	822.5	835.8	850.9	864.2	879.4
127.5°	837.7	843.4	852.8	856.6	866.1	869.9	875.6	890.7	905.9	919.2	934.3
130°	888.8	896.4	904.0	905.9	917.3	923.0	928.6	941.9	959.0	972.2	987.4
132.5°	938.1	941.9	951.4	957.1	966.6	972.2	977.9	989.3	1006.4	1019.6	1034.8
135°	983.6	987.4	998.8	1004.5	1010.1	1015.8	1023.4	1034.8	1051.8	1065.1	1080.3
137.5°	1029.1	1032.9	1044.3	1049.9	1053.7	1059.4	1065.1	1076.5	1093.5	1106.8	1120.1
140°	1070.8	1074.6	1082.2	1089.7	1093.5	1097.3	1103.0	1114.4	1129.5	1142.8	1156.1
142.5°	1108.7	1112.5	1120.1	1127.6	1133.3	1133.3	1139.0	1148.5	1165.5	1178.8	1190.2
145°	1144.7	1146.6	1154.2	1161.8	1169.3	1169.3	1171.2	1180.7	1195.9	1211.0	1222.4
147.5°	1178.8	1180.7	1186.4	1194.0	1199.7	1201.6	1205.3	1209.1	1224.3	1239.5	1252.7
150°	1209.1	1211.0	1214.8	1222.4	1226.2	1230.0	1233.8	1235.7	1247.0	1260.3	1275.5
152.5°	1235.7	1237.6	1241.4	1247.0	1250.8	1254.6	1258.4	1264.1	1269.8	1283.1	1292.5
155°	1262.2	1264.1	1266.0	1271.7	1275.5	1277.4	1279.3	1286.8	1292.5	1300.1	1309.6
157.5°	1284.9	1284.9	1286.8	1290.6	1294.4	1294.4	1296.3	1303.9	1309.6	1317.2	1322.9
160°	1303.9	1303.9	1305.8	1309.6	1309.6	1311.5	1313.4	1319.1	1322.9	1332.3	1339.9
162.5°	1321.0	1319.1	1321.0	1322.9	1322.9	1322.9	1324.7	1328.5	1334.2	1341.8	1349.4
165°	1334.2	1334.2	1334.2	1336.1	1336.1	1334.2	1334.2	1338.0	1341.8	1347.5	1353.2
167.5°	1345.6	1345.6	1343.7	1345.6	1343.7	1343.7	1341.8	1343.7	1345.6	1351.3	1355.1
170°	1355.1	1353.2	1353.2	1353.2	1351.3	1349.4	1349.4	1349.4	1349.4	1353.2	1357.0
172.5°	1362.7	1360.8	1358.9	1358.9	1355.1	1353.2	1353.2	1351.3	1351.3	1353.2	1355.1
175°	1364.5	1362.7	1360.8	1360.8	1357.0	1355.1	1353.2	1353.2	1351.3	1353.2	1355.1
177.5°	1368.3	1366.4	1362.7	1362.7	1358.9	1355.1	1355.1	1353.2	1351.3	1353.2	1353.2
180°	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	756.2	756.2	756.2	756.2	756.2	756.2	756.2	756.2	756.2	756.2
2.5°	760.0	760.0	758.1	756.2	756.2	754.3	752.4	750.5	748.6	746.7
5°	760.0	758.1	756.2	756.2	754.3	754.3	754.3	752.4	750.5	750.5
7.5°	760.0	760.0	758.1	756.2	756.2	756.2	756.2	756.2	754.3	754.3
10°	760.0	758.1	758.1	758.1	756.2	758.1	758.1	756.2	756.2	754.3
12.5°	758.1	758.1	758.1	758.1	758.1	758.1	758.1	758.1	758.1	756.2
15°	754.3	756.2	756.2	758.1	758.1	758.1	760.0	760.0	758.1	758.1
17.5°	752.4	754.3	756.2	758.1	758.1	758.1	760.0	760.0	760.0	760.0
20°	748.6	750.5	752.4	754.3	754.3	756.2	756.2	758.1	758.1	758.1
22.5°	741.0	742.9	746.7	748.6	750.5	752.4	754.3	754.3	754.3	754.3
25°	733.4	737.2	739.1	742.9	744.8	746.7	748.6	748.6	748.6	750.5
27.5°	724.0	727.8	733.4	735.3	737.2	739.1	741.0	742.9	742.9	742.9
30°	712.6	718.3	722.1	725.9	727.8	729.7	731.5	731.5	733.4	733.4
32.5°	699.3	705.0	708.8	712.6	714.5	716.4	720.2	720.2	722.1	722.1
35°	682.3	688.0	693.6	697.4	699.3	701.2	705.0	706.9	706.9	706.9
37.5°	665.2	670.9	676.6	682.3	684.2	686.1	689.9	689.9	691.7	691.7
40°	644.4	650.1	655.7	661.4	661.4	665.2	667.1	669.0	670.9	670.9
42.5°	623.5	629.2	633.0	638.7	640.6	642.5	644.4	648.2	648.2	650.1
45°	598.9	604.6	608.4	614.0	615.9	617.8	621.6	623.5	625.4	625.4
47.5°	572.4	576.1	579.9	585.6	589.4	591.3	593.2	595.1	597.0	595.1
50°	542.0	545.8	551.5	557.2	559.1	561.0	564.8	564.8	566.7	566.7
52.5°	509.8	515.5	519.3	525.0	526.9	528.8	532.6	532.6	534.4	534.4
55°	473.8	477.6	481.4	490.9	492.8	494.6	498.4	498.4	500.3	502.2
57.5°	439.7	441.6	447.3	451.1	454.8	454.8	456.7	458.6	460.5	460.5
60°	403.7	405.6	409.4	415.0	415.0	416.9	420.7	420.7	422.6	422.6
62.5°	365.8	369.6	373.4	379.0	377.1	379.0	382.8	382.8	384.7	384.7
65°	327.9	329.8	333.6	337.3	339.2	339.2	341.1	343.0	344.9	344.9
67.5°	288.1	291.9	293.8	299.4	297.5	299.4	301.3	301.3	303.2	303.2
70°	250.2	252.1	255.9	257.7	257.7	259.6	261.5	261.5	261.5	263.4
72.5°	212.3	214.2	216.1	217.9	217.9	219.8	221.7	221.7	223.6	223.6
75°	172.5	176.3	178.1	181.9	180.0	181.9	185.7	185.7	185.7	185.7
77.5°	138.3	140.2	144.0	145.9	145.9	145.9	149.7	147.8	149.7	149.7
80°	104.2	106.1	109.9	111.8	111.8	113.7	115.6	115.6	115.6	117.5
82.5°	73.9	77.7	81.5	83.4	83.4	85.3	87.2	87.2	89.1	89.1
85°	51.2	55.0	58.8	58.8	60.6	62.5	64.4	64.4	64.4	64.4
87.5°	34.1	36.0	37.9	39.8	41.7	41.7	43.6	43.6	45.5	45.5
90°	19.0	20.8	22.7	24.6	24.6	26.5	26.5	28.4	28.4	28.4
92.5°	26.5	26.5	28.4	30.3	30.3	30.3	30.3	32.2	32.2	32.2
95°	56.9	58.8	58.8	62.5	62.5	62.5	64.4	64.4	64.4	64.4
97.5°	109.9	109.9	109.9	113.7	113.7	113.7	115.6	115.6	115.6	117.5
100°	172.5	174.4	174.4	180.0	178.1	181.9	181.9	181.9	181.9	183.8
102.5°	242.6	246.4	248.3	254.0	254.0	254.0	257.7	255.9	257.7	257.7
105°	318.4	322.2	324.1	329.8	333.6	333.6	337.3	335.5	337.3	339.2
107.5°	394.2	399.9	403.7	409.4	413.2	415.0	415.0	416.9	418.8	420.7
110°	471.9	477.6	487.1	492.8	494.6	498.4	500.3	502.2	504.1	507.9



TEST NUMBER: P393817

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	553.4	559.1	566.7	574.2	572.4	578.0	581.8	583.7	585.6	583.7
115°	627.3	634.9	642.5	650.1	650.1	653.8	661.4	663.3	663.3	667.1
117.5°	697.4	706.9	714.5	722.1	724.0	727.8	733.4	739.1	739.1	742.9
120°	765.7	777.0	784.6	792.2	796.0	797.9	803.6	811.1	811.1	811.1
122.5°	830.1	839.6	849.1	856.6	860.4	864.2	868.0	877.5	877.5	881.3
125°	890.7	902.1	911.6	919.2	923.0	926.8	934.3	940.0	941.9	941.9
127.5°	947.6	959.0	968.4	977.9	979.8	983.6	991.2	998.8	1000.7	1002.6
130°	1000.7	1012.0	1021.5	1031.0	1034.8	1036.7	1046.2	1051.8	1055.6	1057.5
132.5°	1048.0	1059.4	1068.9	1078.4	1082.2	1086.0	1091.6	1101.1	1103.0	1103.0
135°	1091.6	1103.0	1112.5	1123.9	1125.8	1129.5	1137.1	1142.8	1146.6	1148.5
137.5°	1131.4	1142.8	1154.2	1163.7	1167.4	1169.3	1176.9	1184.5	1188.3	1190.2
140°	1167.4	1178.8	1190.2	1197.8	1199.7	1205.3	1211.0	1218.6	1222.4	1224.3
142.5°	1201.6	1211.0	1220.5	1230.0	1231.9	1235.7	1241.4	1248.9	1252.7	1254.6
145°	1231.9	1241.4	1248.9	1256.5	1258.4	1262.2	1267.9	1273.6	1277.4	1279.3
147.5°	1260.3	1267.9	1275.5	1281.2	1283.1	1286.8	1290.6	1294.4	1298.2	1300.1
150°	1284.9	1288.7	1296.3	1300.1	1302.0	1305.8	1309.6	1313.4	1317.2	1319.1
152.5°	1303.9	1309.6	1313.4	1319.1	1321.0	1322.9	1326.6	1330.4	1334.2	1334.2
155°	1319.1	1324.7	1328.5	1334.2	1336.1	1338.0	1341.8	1343.7	1347.5	1347.5
157.5°	1330.4	1336.1	1339.9	1343.7	1345.6	1347.5	1349.4	1353.2	1357.0	1357.0
160°	1343.7	1345.6	1347.5	1351.3	1351.3	1353.2	1355.1	1357.0	1360.8	1360.8
162.5°	1355.1	1357.0	1353.2	1355.1	1353.2	1355.1	1357.0	1358.9	1360.8	1360.8
165°	1358.9	1362.7	1360.8	1362.7	1362.7	1362.7	1362.7	1364.5	1364.5	1364.5
167.5°	1358.9	1362.7	1360.8	1360.8	1362.7	1362.7	1364.5	1366.4	1366.4	1366.4
170°	1358.9	1360.8	1358.9	1357.0	1358.9	1358.9	1358.9	1360.8	1360.8	1360.8
172.5°	1357.0	1358.9	1355.1	1353.2	1353.2	1353.2	1351.3	1351.3	1349.4	1349.4
175°	1355.1	1355.1	1351.3	1349.4	1349.4	1349.4	1345.6	1343.7	1341.8	1339.9
177.5°	1353.2	1353.2	1347.5	1345.6	1345.6	1343.7	1343.7	1339.9	1339.9	1338.0
180°	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4	1349.4

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