

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: P393819

Luminaire Tested: **I3-FL-80L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393819
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-80L840-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7369.3 lumens
Efficiency: N/A
Efficacy: 128.8 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

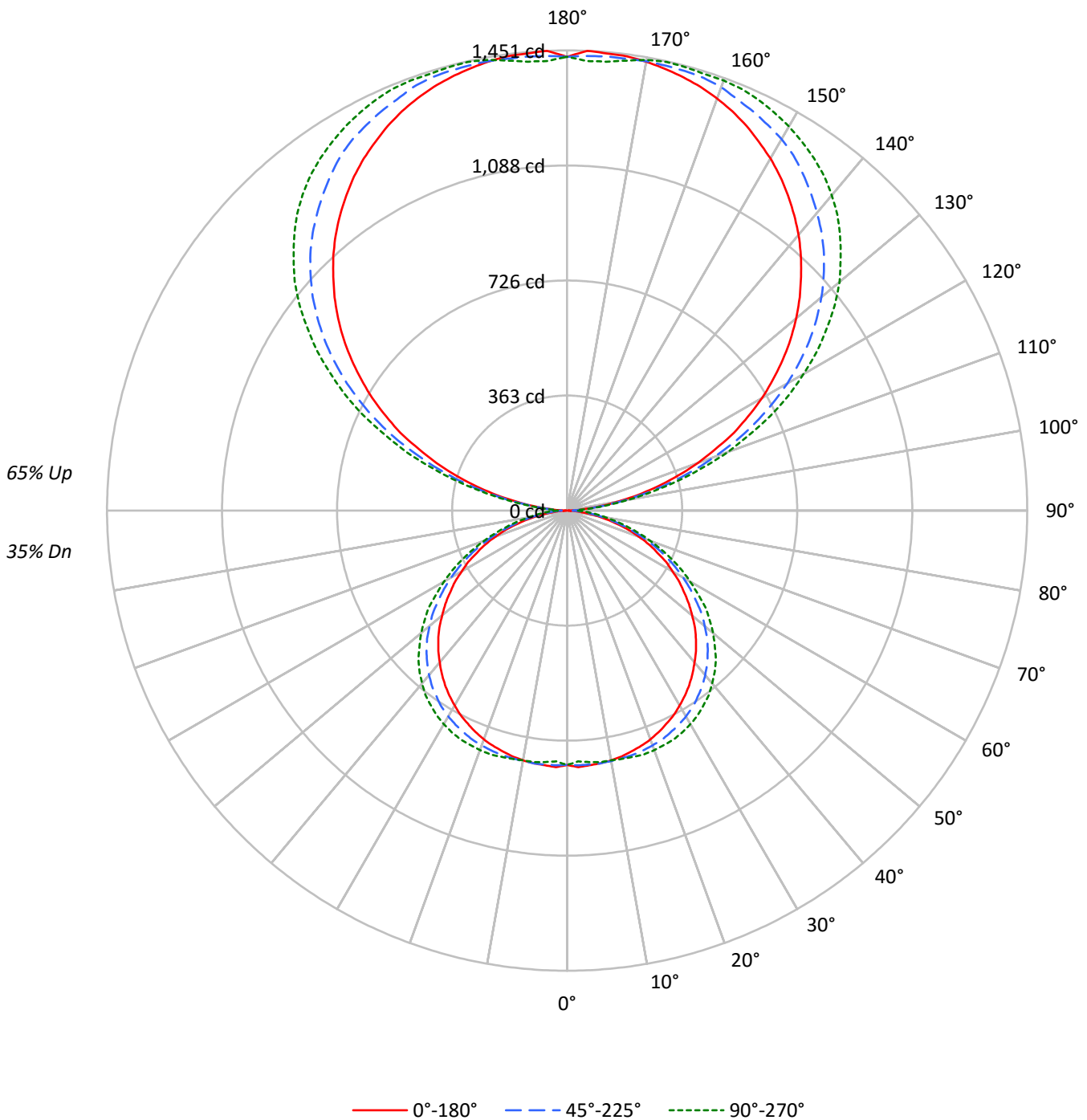
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4407	4407	4407
5°	4429	4334	4266
10°	4431	4275	4216
15°	4421	4238	4199
20°	4422	4202	4193
25°	4409	4164	4177
30°	4394	4125	4139
35°	4373	4058	4078
40°	4330	3973	3989
45°	4285	3850	3866
50°	4187	3680	3677
55°	4066	3448	3457
60°	3929	3177	3123
65°	3736	2846	2774
70°	3470	2426	2343
75°	3020	1929	1863
80°	2356	1370	1364
85°	1277	784	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.0
10°-20°	224.9	3.1
20°-30°	354.6	4.8
30°-40°	445.7	6.0
40°-50°	479.2	6.5
50°-60°	440.8	6.0
60°-70°	337.7	4.6
70°-80°	192.3	2.6
80°-90°	60.0	0.8
90°-100°	80.3	1.1
100°-110°	349.2	4.7
110°-120°	639.4	8.7
120°-130°	824.1	11.2
130°-140°	876.9	11.9
140°-150°	806.8	10.9
150°-160°	639.2	8.7
160°-170°	404.7	5.5
170°-180°	137.0	1.9
0°-30°	655.9	8.9
0°-40°	1101.5	14.9
0°-60°	2021.5	27.4
0°-90°	2611.5	35.4
90°-120°	1068.9	14.5
90°-150°	3576.8	48.5
90°-180°	4758.0	64.6
0°-180°	7369.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	806	798	804	800	796	77
15°	786	782	798	804	804	222
25°	742	744	772	790	796	342
35°	671	679	717	742	750	420
45°	575	589	627	653	663	443
55°	450	468	496	522	532	403
65°	314	324	344	360	366	311
75°	165	169	181	191	197	174
85°	30	38	50	64	68	38
90°	2	6	18	26	30	4
95°	54	52	58	66	68	68
105°	295	310	334	354	360	314
115°	581	607	655	689	707	570
125°	830	866	932	979	999	741
135°	1043	1077	1146	1194	1218	805
145°	1214	1240	1296	1334	1356	760
155°	1338	1354	1389	1417	1429	617
165°	1415	1415	1435	1445	1447	400
175°	1447	1437	1437	1431	1421	138
180°	1431	1431	1431	1431	1431	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	801.8	801.8	801.8	801.8	801.8	801.8	801.8	801.8	801.8	801.8	801.8
2.5°	809.9	807.9	805.8	801.8	801.8	799.8	799.8	799.8	799.8	801.8	803.8
5°	805.8	805.8	803.8	799.8	799.8	797.8	797.8	799.8	797.8	799.8	803.8
7.5°	803.8	803.8	801.8	797.8	797.8	797.8	797.8	797.8	797.8	799.8	803.8
10°	799.8	799.8	795.8	793.8	793.8	793.8	793.8	795.8	795.8	797.8	801.8
12.5°	793.8	791.8	789.8	787.8	787.8	787.8	789.8	791.8	791.8	795.8	799.8
15°	785.7	785.7	783.7	781.7	781.7	781.7	783.7	785.7	787.8	791.8	797.8
17.5°	777.7	777.7	775.7	775.7	775.7	775.7	777.7	779.7	783.7	787.8	793.8
20°	767.7	767.7	765.7	765.7	765.7	767.7	767.7	771.7	775.7	781.7	787.8
22.5°	755.6	755.6	755.6	753.6	755.6	757.6	759.6	763.6	767.7	773.7	781.7
25°	741.5	741.5	741.5	741.5	743.5	743.5	747.6	751.6	755.6	763.6	771.7
27.5°	727.5	727.5	727.5	725.5	729.5	731.5	733.5	739.5	743.5	753.6	761.6
30°	709.4	709.4	709.4	711.4	713.4	715.4	719.4	725.5	729.5	739.5	749.6
32.5°	691.3	691.3	691.3	691.3	697.3	699.3	701.3	707.4	715.4	725.5	735.5
35°	671.2	671.2	671.2	673.2	677.2	679.2	683.3	689.3	697.3	707.4	717.4
37.5°	649.1	651.1	651.1	653.1	657.1	661.2	665.2	671.2	679.2	689.3	699.3
40°	625.0	627.0	627.0	629.0	633.0	637.0	641.1	649.1	657.1	667.2	677.2
42.5°	600.9	602.9	602.9	606.9	610.9	614.9	619.0	627.0	635.0	645.1	653.1
45°	574.7	576.8	576.8	580.8	586.8	588.8	594.8	602.9	610.9	619.0	627.0
47.5°	546.6	548.6	548.6	552.6	558.7	562.7	566.7	574.7	580.8	590.8	598.9
50°	514.5	516.5	518.5	522.5	530.5	534.5	538.6	544.6	552.6	558.7	566.7
52.5°	484.3	484.3	486.3	490.3	496.4	500.4	502.4	508.4	518.5	526.5	534.5
55°	450.1	452.2	454.2	458.2	464.2	468.2	470.2	476.3	482.3	488.3	496.4
57.5°	420.0	420.0	422.0	426.0	432.1	434.1	436.1	440.1	448.1	454.2	460.2
60°	383.8	385.8	387.8	391.9	395.9	399.9	399.9	405.9	412.0	418.0	422.0
62.5°	351.7	351.7	353.7	357.7	359.7	363.7	363.7	369.8	373.8	379.8	383.8
65°	313.5	315.5	317.5	319.5	323.5	323.5	325.6	329.6	333.6	337.6	343.6
67.5°	279.3	279.3	281.3	283.4	285.4	285.4	287.4	291.4	295.4	299.4	303.4
70°	241.2	243.2	243.2	243.2	245.2	247.2	249.2	251.2	255.2	257.2	261.2
72.5°	203.0	203.0	205.0	205.0	207.0	209.0	211.0	213.0	215.0	219.0	221.1
75°	164.8	164.8	166.8	166.8	168.8	168.8	168.8	172.8	174.8	178.9	180.9
77.5°	126.6	128.6	128.6	128.6	130.6	132.6	132.6	134.6	138.7	140.7	142.7
80°	92.4	92.4	92.4	92.4	94.5	96.5	98.5	98.5	102.5	106.5	108.5
82.5°	58.3	58.3	60.3	62.3	62.3	64.3	66.3	68.3	72.3	74.4	76.4
85°	30.1	30.1	32.2	34.2	36.2	38.2	38.2	40.2	44.2	48.2	50.2
87.5°	10.0	12.1	12.1	14.1	16.1	18.1	20.1	22.1	26.1	30.1	32.2
90°	2.0	2.0	2.0	4.0	6.0	6.0	8.0	10.0	12.1	14.1	18.1
92.5°	18.1	18.1	16.1	18.1	18.1	18.1	18.1	20.1	22.1	22.1	26.1
95°	54.3	52.2	52.2	52.2	52.2	52.2	52.2	54.3	56.3	56.3	58.3
97.5°	104.5	104.5	102.5	102.5	104.5	104.5	104.5	106.5	110.5	108.5	112.5
100°	162.8	162.8	160.8	162.8	164.8	166.8	170.8	170.8	174.8	174.8	180.9
102.5°	229.1	229.1	227.1	231.1	233.1	237.1	237.1	241.2	247.2	247.2	255.2
105°	295.4	297.4	297.4	301.4	305.5	309.5	309.5	315.5	323.5	323.5	333.6
107.5°	367.8	369.8	369.8	373.8	377.8	381.8	383.8	391.9	399.9	401.9	414.0
110°	438.1	440.1	442.1	446.1	450.1	456.2	460.2	468.2	478.3	482.3	492.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	504.4	512.4	514.5	520.5	526.5	532.5	536.6	546.6	558.7	564.7	576.8
115°	580.8	584.8	586.8	592.8	600.9	606.9	610.9	621.0	633.0	641.1	655.1
117.5°	643.1	653.1	655.1	661.2	669.2	675.2	679.2	691.3	705.4	715.4	729.5
120°	709.4	717.4	725.5	729.5	735.5	743.5	747.6	759.6	775.7	785.7	801.8
122.5°	769.7	777.7	785.7	791.8	799.8	803.8	809.9	823.9	840.0	852.1	868.1
125°	830.0	840.0	846.0	852.1	862.1	866.1	872.2	886.2	902.3	916.4	932.4
127.5°	888.2	894.3	904.3	908.3	918.4	922.4	928.4	944.5	960.6	974.6	990.7
130°	942.5	950.5	958.6	960.6	972.6	978.7	984.7	998.8	1016.8	1030.9	1047.0
132.5°	994.7	998.8	1008.8	1014.8	1024.9	1030.9	1036.9	1049.0	1067.1	1081.2	1097.2
135°	1043.0	1047.0	1059.1	1065.1	1071.1	1077.1	1085.2	1097.2	1115.3	1129.4	1145.5
137.5°	1091.2	1095.2	1107.3	1113.3	1117.3	1123.4	1129.4	1141.4	1159.5	1173.6	1187.7
140°	1135.4	1139.4	1147.5	1155.5	1159.5	1163.5	1169.6	1181.6	1197.7	1211.8	1225.8
142.5°	1175.6	1179.6	1187.7	1195.7	1201.7	1201.7	1207.8	1217.8	1235.9	1250.0	1262.0
145°	1213.8	1215.8	1223.8	1231.9	1239.9	1239.9	1241.9	1252.0	1268.0	1284.1	1296.2
147.5°	1250.0	1252.0	1258.0	1266.0	1272.1	1274.1	1278.1	1282.1	1298.2	1314.3	1328.3
150°	1282.1	1284.1	1288.1	1296.2	1300.2	1304.2	1308.2	1310.2	1322.3	1336.4	1352.5
152.5°	1310.2	1312.3	1316.3	1322.3	1326.3	1330.3	1334.4	1340.4	1346.4	1360.5	1370.5
155°	1338.4	1340.4	1342.4	1348.4	1352.5	1354.5	1356.5	1364.5	1370.5	1378.6	1388.6
157.5°	1362.5	1362.5	1364.5	1368.5	1372.5	1372.5	1374.6	1382.6	1388.6	1396.7	1402.7
160°	1382.6	1382.6	1384.6	1388.6	1388.6	1390.6	1392.6	1398.7	1402.7	1412.7	1420.8
162.5°	1400.7	1398.7	1400.7	1402.7	1402.7	1402.7	1404.7	1408.7	1414.7	1422.8	1430.8
165°	1414.7	1414.7	1414.7	1416.8	1416.8	1414.7	1414.7	1418.8	1422.8	1428.8	1434.8
167.5°	1426.8	1426.8	1424.8	1426.8	1424.8	1424.8	1422.8	1424.8	1426.8	1432.8	1436.9
170°	1436.9	1434.8	1434.8	1434.8	1432.8	1430.8	1430.8	1430.8	1430.8	1434.8	1438.9
172.5°	1444.9	1442.9	1440.9	1440.9	1436.9	1434.8	1434.8	1432.8	1432.8	1434.8	1436.9
175°	1446.9	1444.9	1442.9	1442.9	1438.9	1436.9	1434.8	1434.8	1432.8	1434.8	1436.9
177.5°	1450.9	1448.9	1444.9	1444.9	1440.9	1436.9	1436.9	1434.8	1432.8	1434.8	1434.8
180°	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	801.8	801.8	801.8	801.8	801.8	801.8	801.8	801.8	801.8	801.8
2.5°	805.8	805.8	803.8	801.8	801.8	799.8	797.8	795.8	793.8	791.8
5°	805.8	803.8	801.8	801.8	799.8	799.8	799.8	797.8	795.8	795.8
7.5°	805.8	805.8	803.8	801.8	801.8	801.8	801.8	801.8	799.8	799.8
10°	805.8	803.8	803.8	803.8	801.8	803.8	803.8	801.8	801.8	799.8
12.5°	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	801.8
15°	799.8	801.8	801.8	803.8	803.8	803.8	805.8	805.8	803.8	803.8
17.5°	797.8	799.8	801.8	803.8	803.8	803.8	805.8	805.8	805.8	805.8
20°	793.8	795.8	797.8	799.8	799.8	801.8	801.8	803.8	803.8	803.8
22.5°	785.7	787.8	791.8	793.8	795.8	797.8	799.8	799.8	799.8	799.8
25°	777.7	781.7	783.7	787.8	789.8	791.8	793.8	793.8	793.8	795.8
27.5°	767.7	771.7	777.7	779.7	781.7	783.7	785.7	787.8	787.8	787.8
30°	755.6	761.6	765.7	769.7	771.7	773.7	775.7	775.7	777.7	777.7
32.5°	741.5	747.6	751.6	755.6	757.6	759.6	763.6	763.6	765.7	765.7
35°	723.5	729.5	735.5	739.5	741.5	743.5	747.6	749.6	749.6	749.6
37.5°	705.4	711.4	717.4	723.5	725.5	727.5	731.5	731.5	733.5	733.5
40°	683.3	689.3	695.3	701.3	701.3	705.4	707.4	709.4	711.4	711.4
42.5°	661.2	667.2	671.2	677.2	679.2	681.2	683.3	687.3	687.3	689.3
45°	635.0	641.1	645.1	651.1	653.1	655.1	659.1	661.2	663.2	663.2
47.5°	606.9	610.9	614.9	621.0	625.0	627.0	629.0	631.0	633.0	631.0
50°	574.7	578.8	584.8	590.8	592.8	594.8	598.9	598.9	600.9	600.9
52.5°	540.6	546.6	550.6	556.7	558.7	560.7	564.7	564.7	566.7	566.7
55°	502.4	506.4	510.4	520.5	522.5	524.5	528.5	528.5	530.5	532.5
57.5°	466.2	468.2	474.3	478.3	482.3	482.3	484.3	486.3	488.3	488.3
60°	428.0	430.1	434.1	440.1	440.1	442.1	446.1	446.1	448.1	448.1
62.5°	387.8	391.9	395.9	401.9	399.9	401.9	405.9	405.9	407.9	407.9
65°	347.7	349.7	353.7	357.7	359.7	359.7	361.7	363.7	365.7	365.7
67.5°	305.5	309.5	311.5	317.5	315.5	317.5	319.5	319.5	321.5	321.5
70°	265.3	267.3	271.3	273.3	273.3	275.3	277.3	277.3	277.3	279.3
72.5°	225.1	227.1	229.1	231.1	231.1	233.1	235.1	235.1	237.1	237.1
75°	182.9	186.9	188.9	192.9	190.9	192.9	196.9	196.9	196.9	196.9
77.5°	146.7	148.7	152.7	154.7	154.7	154.7	158.8	156.7	158.8	158.8
80°	110.5	112.5	116.6	118.6	118.6	120.6	122.6	122.6	122.6	124.6
82.5°	78.4	82.4	86.4	88.4	88.4	90.4	92.4	92.4	94.5	94.5
85°	54.3	58.3	62.3	62.3	64.3	66.3	68.3	68.3	68.3	68.3
87.5°	36.2	38.2	40.2	42.2	44.2	44.2	46.2	46.2	48.2	48.2
90°	20.1	22.1	24.1	26.1	26.1	28.1	28.1	30.1	30.1	30.1
92.5°	28.1	28.1	30.1	32.2	32.2	32.2	32.2	34.2	34.2	34.2
95°	60.3	62.3	62.3	66.3	66.3	66.3	68.3	68.3	68.3	68.3
97.5°	116.6	116.6	116.6	120.6	120.6	120.6	122.6	122.6	122.6	124.6
100°	182.9	184.9	184.9	190.9	188.9	192.9	192.9	192.9	192.9	194.9
102.5°	257.2	261.2	263.3	269.3	269.3	269.3	273.3	271.3	273.3	273.3
105°	337.6	341.6	343.6	349.7	353.7	353.7	357.7	355.7	357.7	359.7
107.5°	418.0	424.0	428.0	434.1	438.1	440.1	440.1	442.1	444.1	446.1
110°	500.4	506.4	516.5	522.5	524.5	528.5	530.5	532.5	534.5	538.6



TEST NUMBER: P393819

CATALOG NUMBER: I3-FL-80L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	586.8	592.8	600.9	608.9	606.9	612.9	616.9	619.0	621.0	619.0
115°	665.2	673.2	681.2	689.3	689.3	693.3	701.3	703.4	703.4	707.4
117.5°	739.5	749.6	757.6	765.7	767.7	771.7	777.7	783.7	783.7	787.8
120°	811.9	823.9	832.0	840.0	844.0	846.0	852.1	860.1	860.1	860.1
122.5°	880.2	890.2	900.3	908.3	912.4	916.4	920.4	930.4	930.4	934.5
125°	944.5	956.6	966.6	974.6	978.7	982.7	990.7	996.8	998.8	998.8
127.5°	1004.8	1016.8	1026.9	1036.9	1039.0	1043.0	1051.0	1059.1	1061.1	1063.1
130°	1061.1	1073.1	1083.2	1093.2	1097.2	1099.2	1109.3	1115.3	1119.3	1121.3
132.5°	1111.3	1123.4	1133.4	1143.5	1147.5	1151.5	1157.5	1167.6	1169.6	1169.6
135°	1157.5	1169.6	1179.6	1191.7	1193.7	1197.7	1205.8	1211.8	1215.8	1217.8
137.5°	1199.7	1211.8	1223.8	1233.9	1237.9	1239.9	1248.0	1256.0	1260.0	1262.0
140°	1237.9	1250.0	1262.0	1270.1	1272.1	1278.1	1284.1	1292.2	1296.2	1298.2
142.5°	1274.1	1284.1	1294.2	1304.2	1306.2	1310.2	1316.3	1324.3	1328.3	1330.3
145°	1306.2	1316.3	1324.3	1332.4	1334.4	1338.4	1344.4	1350.4	1354.5	1356.5
147.5°	1336.4	1344.4	1352.5	1358.5	1360.5	1364.5	1368.5	1372.5	1376.6	1378.6
150°	1362.5	1366.5	1374.6	1378.6	1380.6	1384.6	1388.6	1392.6	1396.7	1398.7
152.5°	1382.6	1388.6	1392.6	1398.7	1400.7	1402.7	1406.7	1410.7	1414.7	1414.7
155°	1398.7	1404.7	1408.7	1414.7	1416.8	1418.8	1422.8	1424.8	1428.8	1428.8
157.5°	1410.7	1416.8	1420.8	1424.8	1426.8	1428.8	1430.8	1434.8	1438.9	1438.9
160°	1424.8	1426.8	1428.8	1432.8	1432.8	1434.8	1436.9	1438.9	1442.9	1442.9
162.5°	1436.9	1438.9	1434.8	1436.9	1434.8	1436.9	1438.9	1440.9	1442.9	1442.9
165°	1440.9	1444.9	1442.9	1444.9	1444.9	1444.9	1444.9	1446.9	1446.9	1446.9
167.5°	1440.9	1444.9	1442.9	1442.9	1444.9	1444.9	1446.9	1448.9	1448.9	1448.9
170°	1440.9	1442.9	1440.9	1438.9	1440.9	1440.9	1440.9	1442.9	1442.9	1442.9
172.5°	1438.9	1440.9	1436.9	1434.8	1434.8	1434.8	1432.8	1432.8	1430.8	1430.8
175°	1436.9	1436.9	1432.8	1430.8	1430.8	1430.8	1426.8	1424.8	1422.8	1420.8
177.5°	1434.8	1434.8	1428.8	1426.8	1426.8	1424.8	1424.8	1420.8	1420.8	1418.8
180°	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8

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