

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: P393828

Luminaire Tested: **I3-UL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393828
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-40L840-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
4000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

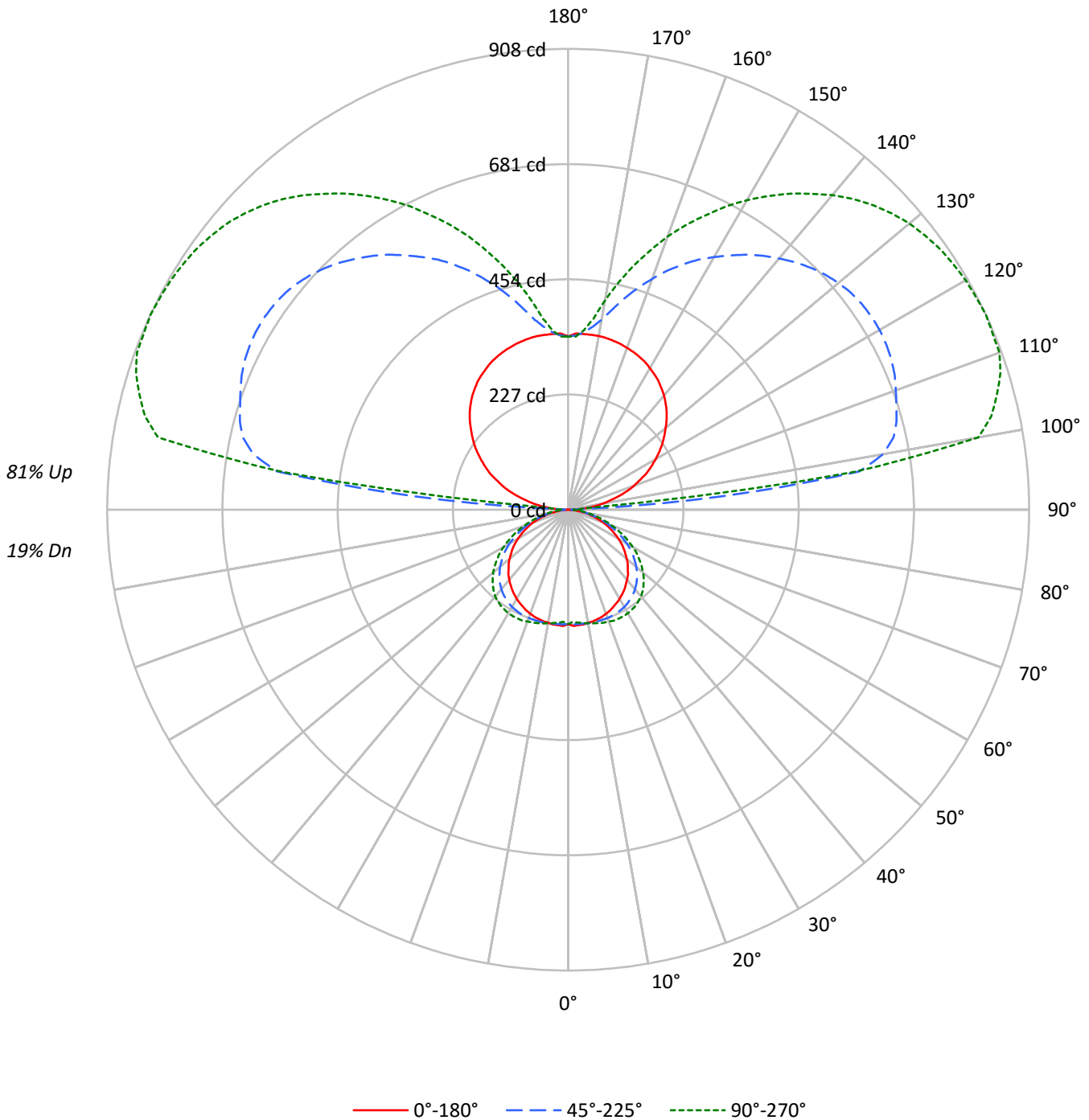
Lumens per Lamp: N/A
Luminaire Lumens: 4134.7 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 27.9
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	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°	1238	1238	1238
5°	1255	1220	1197
10°	1253	1211	1198
15°	1256	1207	1208
20°	1256	1212	1223
25°	1254	1215	1241
30°	1256	1217	1253
35°	1255	1211	1258
40°	1250	1202	1251
45°	1238	1177	1224
50°	1227	1138	1179
55°	1206	1083	1111
60°	1168	1005	1022
65°	1117	895	912
70°	1056	776	769
75°	914	609	617
80°	727	437	447
85°	433	255	294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	0.5
10°-20°	64.2	1.6
20°-30°	103.4	2.5
30°-40°	133.0	3.2
40°-50°	146.1	3.5
50°-60°	137.3	3.3
60°-70°	106.7	2.6
70°-80°	61.2	1.5
80°-90°	19.6	0.5
90°-100°	264.3	6.4
100°-110°	628.1	15.2
110°-120°	631.0	15.3
120°-130°	578.6	14.0
130°-140°	483.8	11.7
140°-150°	363.2	8.8
150°-160°	236.4	5.7
160°-170°	121.7	2.9
170°-180°	34.4	0.8
0°-30°	189.2	4.6
0°-40°	322.2	7.8
0°-60°	605.6	14.6
0°-90°	793.1	19.2
90°-120°	1523.4	36.8
90°-150°	2949.0	71.3
90°-180°	3342.0	80.8
0°-180°	4134.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	225	225	225	225	225	
5°	228	226	226	225	223	22
15°	223	222	227	230	231	63
25°	211	213	225	233	236	97
35°	193	198	214	227	231	120
45°	166	174	192	206	210	128
55°	134	141	156	167	171	119
65°	94	99	108	117	120	93
75°	50	52	57	63	65	53
85°	10	12	16	21	22	12
90°	1	3	6	9	10	3
95°	36	296	304	41	35	35
105°	103	396	670	825	874	109
115°	170	446	702	854	908	167
125°	226	466	706	846	895	202
135°	274	464	675	802	849	211
145°	310	444	613	720	760	194
155°	332	408	533	610	640	153
165°	344	368	432	479	497	97
175°	348	346	350	355	355	33
180°	341	341	341	341	341	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2
2.5°	229.3	228.3	227.2	227.2	226.2	226.2	226.2	225.2	225.2	225.2	226.2
5°	228.3	228.3	227.2	226.2	226.2	226.2	225.2	225.2	225.2	225.2	226.2
7.5°	228.3	227.2	226.2	226.2	225.2	225.2	225.2	225.2	225.2	225.2	226.2
10°	226.2	226.2	225.2	225.2	224.2	225.2	225.2	225.2	225.2	225.2	227.2
12.5°	225.2	225.2	224.2	223.2	223.2	223.2	224.2	224.2	224.2	225.2	227.2
15°	223.2	223.2	222.1	222.1	222.1	222.1	223.2	223.2	224.2	225.2	227.2
17.5°	221.1	221.1	220.1	220.1	220.1	221.1	221.1	222.1	223.2	225.2	227.2
20°	218.1	218.1	218.1	218.1	218.1	219.1	219.1	220.1	222.1	224.2	227.2
22.5°	215.0	215.0	215.0	215.0	215.0	216.0	217.0	219.1	220.1	223.2	226.2
25°	210.9	210.9	210.9	210.9	212.0	213.0	214.0	216.0	218.1	221.1	225.2
27.5°	206.9	207.9	207.9	207.9	208.9	209.9	210.9	213.0	216.0	220.1	223.2
30°	202.8	202.8	202.8	203.8	204.8	205.8	207.9	209.9	213.0	217.0	221.1
32.5°	197.7	197.7	198.7	198.7	200.7	201.8	203.8	206.9	209.9	214.0	218.1
35°	192.6	192.6	192.6	194.6	195.6	197.7	198.7	201.8	205.8	209.9	214.0
37.5°	186.5	187.5	187.5	188.5	190.6	192.6	193.6	197.7	201.8	205.8	209.9
40°	180.4	181.4	181.4	182.4	185.5	186.5	188.5	192.6	195.6	200.7	204.8
42.5°	174.2	174.2	175.3	176.3	179.3	180.4	182.4	186.5	190.6	194.6	198.7
45°	166.1	167.1	168.1	169.2	172.2	174.2	176.3	179.3	183.4	187.5	191.6
47.5°	159.0	159.0	160.0	162.0	165.1	167.1	168.1	172.2	175.3	179.3	183.4
50°	150.8	151.8	151.8	153.9	156.9	159.0	160.0	164.1	167.1	171.2	175.3
52.5°	141.6	142.7	143.7	145.7	148.8	150.8	151.8	154.9	157.9	162.0	165.1
55°	133.5	134.5	134.5	136.5	139.6	140.6	142.7	144.7	148.8	151.8	155.9
57.5°	124.3	125.3	125.3	127.4	129.4	131.5	132.5	135.5	138.6	141.6	144.7
60°	114.1	115.1	116.2	117.2	119.2	121.3	122.3	124.3	127.4	130.4	133.5
62.5°	103.9	105.0	106.0	107.0	109.0	110.1	111.1	114.1	116.2	119.2	121.3
65°	93.7	94.8	95.8	96.8	97.8	98.8	99.9	101.9	103.9	107.0	108.0
67.5°	83.6	84.6	84.6	85.6	86.6	87.6	88.7	90.7	91.7	94.8	95.8
70°	73.4	73.4	73.4	74.4	74.4	75.4	76.4	78.5	79.5	81.5	83.6
72.5°	61.1	62.2	62.2	62.2	63.2	64.2	65.2	66.2	67.3	68.3	70.3
75°	49.9	50.9	49.9	50.9	52.0	52.0	53.0	54.0	55.0	56.0	57.1
77.5°	39.7	38.7	39.7	39.7	40.8	40.8	40.8	41.8	43.8	43.8	45.9
80°	28.5	28.5	28.5	28.5	29.6	29.6	30.6	30.6	32.6	33.6	34.6
82.5°	18.3	18.3	19.4	19.4	19.4	20.4	20.4	21.4	22.4	23.4	24.5
85°	10.2	10.2	10.2	11.2	11.2	12.2	12.2	13.2	14.3	15.3	16.3
87.5°	3.1	4.1	5.1	5.1	6.1	6.1	7.1	7.1	9.2	10.2	11.2
90°	1.0	1.0	2.0	2.0	2.0	3.1	3.1	4.1	4.1	5.1	6.1
92.5°	17.3	40.8	84.6	126.4	109.0	101.9	61.1	18.3	16.3	17.3	17.3
95°	35.7	67.3	123.3	199.7	258.8	295.5	320.0	366.8	414.7	406.6	303.7
97.5°	52.0	86.6	148.8	219.1	300.6	342.4	374.0	430.0	491.2	542.1	578.8
100°	68.3	103.9	170.2	243.5	318.9	356.6	393.3	469.8	529.9	580.8	629.7
102.5°	85.6	121.3	189.5	266.0	340.3	377.0	412.7	479.9	547.2	608.3	656.2
105°	102.9	139.6	206.9	285.3	359.7	396.4	431.0	495.2	557.4	614.5	669.5
107.5°	121.3	155.9	222.1	300.6	375.0	411.7	446.3	510.5	570.6	627.7	677.6
110°	137.6	171.2	237.4	314.9	389.3	425.9	460.6	524.8	583.9	637.9	686.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	152.8	185.5	251.7	327.1	400.5	437.2	470.8	535.0	594.1	647.1	696.0
115°	170.2	198.7	266.0	338.3	410.7	446.3	479.9	543.1	602.2	654.2	702.1
117.5°	184.4	212.0	278.2	347.5	418.8	453.5	486.1	549.2	607.3	659.3	706.2
120°	198.7	224.2	289.4	355.6	424.9	458.5	491.2	553.3	611.4	662.3	708.2
122.5°	213.0	236.4	298.6	363.8	430.0	463.6	495.2	556.4	613.4	663.4	708.2
125°	226.2	246.6	306.7	369.9	433.1	465.7	496.3	556.4	612.4	661.3	706.2
127.5°	238.4	257.8	312.8	376.0	435.1	466.7	496.3	554.3	610.4	658.3	702.1
130°	250.7	268.0	318.9	379.1	437.2	465.7	494.2	550.3	605.3	653.2	695.0
132.5°	262.9	279.2	324.0	382.1	438.2	465.7	492.2	546.2	599.2	646.0	685.8
135°	274.1	287.4	329.1	384.2	437.2	463.6	488.1	539.1	590.0	635.9	674.6
137.5°	284.3	295.5	333.2	385.2	436.1	460.6	485.0	530.9	578.8	623.6	661.3
140°	293.5	303.7	335.3	385.2	432.1	456.5	478.9	522.7	566.6	609.4	646.0
142.5°	301.6	310.8	338.3	383.1	428.0	451.4	472.8	514.6	554.3	595.1	630.8
145°	309.8	316.9	340.3	382.1	422.9	444.3	464.7	504.4	543.1	579.8	613.4
147.5°	315.9	323.0	342.4	378.0	416.8	436.1	455.5	493.2	528.9	563.5	594.1
150°	322.0	328.1	343.4	374.0	409.6	427.0	444.3	479.9	514.6	546.2	574.7
152.5°	328.1	332.2	346.5	369.9	401.5	417.8	435.1	466.7	498.3	527.8	555.4
155°	332.2	335.3	347.5	365.8	393.3	407.6	421.9	451.4	479.9	507.5	532.9
157.5°	336.3	339.3	348.5	362.8	384.2	397.4	409.6	435.1	461.6	486.1	509.5
160°	339.3	341.4	348.5	360.7	376.0	385.2	396.4	419.8	442.2	463.6	484.0
162.5°	342.4	343.4	348.5	357.7	368.9	375.0	383.1	401.5	421.9	440.2	458.5
165°	344.4	345.4	348.5	355.6	362.8	367.9	371.9	385.2	400.5	416.8	432.1
167.5°	346.5	346.5	348.5	353.6	357.7	360.7	363.8	370.9	381.1	393.3	404.5
170°	347.5	347.5	348.5	351.6	354.6	355.6	357.7	361.7	366.8	373.0	380.1
172.5°	347.5	347.5	347.5	349.5	350.5	350.5	350.5	352.6	355.6	359.7	362.8
175°	347.5	346.5	346.5	347.5	346.5	346.5	346.5	346.5	347.5	349.5	350.5
177.5°	347.5	346.5	345.4	345.4	344.4	344.4	343.4	343.4	343.4	343.4	343.4
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2
2.5°	226.2	226.2	225.2	224.2	224.2	224.2	223.2	222.1	221.1	221.1
5°	226.2	226.2	225.2	225.2	225.2	225.2	224.2	224.2	223.2	223.2
7.5°	227.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	225.2	225.2
10°	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2
12.5°	228.3	228.3	228.3	228.3	229.3	229.3	229.3	229.3	229.3	229.3
15°	228.3	229.3	230.3	230.3	230.3	231.3	231.3	231.3	231.3	231.3
17.5°	229.3	230.3	231.3	231.3	232.3	232.3	233.4	233.4	233.4	233.4
20°	229.3	230.3	231.3	232.3	233.4	233.4	234.4	235.4	235.4	234.4
22.5°	228.3	230.3	231.3	232.3	233.4	234.4	235.4	236.4	236.4	236.4
25°	227.2	229.3	231.3	233.4	233.4	234.4	236.4	236.4	236.4	236.4
27.5°	226.2	228.3	230.3	232.3	233.4	234.4	235.4	236.4	236.4	236.4
30°	224.2	227.2	229.3	231.3	232.3	233.4	234.4	235.4	235.4	235.4
32.5°	221.1	224.2	226.2	229.3	230.3	231.3	232.3	233.4	233.4	233.4
35°	218.1	221.1	223.2	226.2	227.2	228.3	230.3	230.3	231.3	231.3
37.5°	213.0	217.0	219.1	222.1	223.2	224.2	226.2	227.2	227.2	227.2
40°	207.9	212.0	214.0	217.0	218.1	219.1	221.1	222.1	223.2	223.2
42.5°	201.8	205.8	207.9	210.9	212.0	213.0	215.0	216.0	217.0	217.0
45°	195.6	198.7	200.7	203.8	205.8	205.8	207.9	208.9	209.9	209.9
47.5°	187.5	190.6	192.6	195.6	197.7	198.7	199.7	200.7	201.8	201.8
50°	178.3	181.4	184.4	186.5	188.5	188.5	190.6	191.6	192.6	192.6
52.5°	169.2	171.2	174.2	177.3	178.3	179.3	180.4	181.4	182.4	182.4
55°	159.0	161.0	164.1	166.1	167.1	168.1	169.2	170.2	171.2	171.2
57.5°	147.8	149.8	152.8	154.9	155.9	156.9	157.9	159.0	160.0	160.0
60°	135.5	137.6	140.6	142.7	143.7	143.7	145.7	146.7	146.7	146.7
62.5°	123.3	125.3	127.4	129.4	130.4	131.5	132.5	133.5	133.5	133.5
65°	111.1	113.1	115.1	116.2	117.2	117.2	118.2	119.2	120.2	120.2
67.5°	97.8	99.9	101.9	102.9	103.9	103.9	105.0	106.0	106.0	106.0
70°	84.6	85.6	87.6	88.7	89.7	89.7	91.7	91.7	91.7	91.7
72.5°	71.3	72.3	74.4	75.4	76.4	76.4	77.4	78.5	78.5	78.5
75°	59.1	60.1	61.1	63.2	63.2	63.2	64.2	65.2	65.2	65.2
77.5°	46.9	47.9	48.9	49.9	50.9	50.9	52.0	53.0	53.0	53.0
80°	35.7	36.7	37.7	38.7	38.7	39.7	39.7	40.8	40.8	40.8
82.5°	25.5	26.5	27.5	28.5	29.6	29.6	30.6	31.6	31.6	30.6
85°	17.3	19.4	20.4	21.4	21.4	21.4	22.4	23.4	23.4	22.4
87.5°	12.2	12.2	13.2	14.3	14.3	15.3	15.3	16.3	16.3	16.3
90°	7.1	7.1	8.2	8.2	9.2	9.2	9.2	10.2	10.2	10.2
92.5°	17.3	17.3	18.3	18.3	18.3	18.3	19.4	19.4	19.4	19.4
95°	185.5	83.6	70.3	42.8	40.8	35.7	34.6	35.7	35.7	34.6
97.5°	622.6	666.4	693.9	707.2	690.9	673.6	654.2	651.1	624.6	565.5
100°	671.5	706.2	739.8	763.2	772.4	780.6	798.9	810.1	815.2	820.3
102.5°	696.0	732.7	762.2	791.8	804.0	815.2	831.5	844.7	849.8	853.9
105°	717.4	755.1	787.7	814.2	825.4	835.6	851.9	864.1	873.3	874.3
107.5°	722.5	762.2	798.9	831.5	844.7	856.0	875.3	884.5	892.6	892.6
110°	731.6	769.3	803.0	832.5	845.8	859.0	879.4	893.7	901.8	903.9



TEST NUMBER: P393828

CATALOG NUMBER: I3-UL-40L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	738.8	777.5	809.1	838.6	849.8	862.1	881.4	894.7	901.8	904.9
115°	744.9	782.6	814.2	841.7	853.9	866.1	885.5	896.7	904.9	907.9
117.5°	749.0	785.6	817.2	842.7	856.0	866.1	884.5	896.7	904.9	905.9
120°	750.0	786.7	817.2	842.7	853.9	865.1	883.5	895.7	903.9	903.9
122.5°	750.0	785.6	816.2	840.7	850.9	861.1	878.4	892.6	899.8	899.8
125°	745.9	781.6	811.1	835.6	845.8	854.9	873.3	886.5	893.7	894.7
127.5°	739.8	774.4	804.0	828.4	838.6	846.8	866.1	878.4	885.5	886.5
130°	731.6	766.3	794.8	818.3	828.4	837.6	853.9	867.2	875.3	877.4
132.5°	722.5	755.1	783.6	806.0	816.2	824.4	840.7	853.9	861.1	864.1
135°	711.3	741.8	769.3	791.8	802.0	810.1	825.4	838.6	845.8	848.8
137.5°	697.0	726.5	753.0	775.5	784.6	792.8	808.1	820.3	826.4	830.5
140°	680.7	708.2	735.7	756.1	765.3	773.4	786.7	799.9	806.0	809.1
142.5°	663.4	690.9	715.3	735.7	743.9	752.0	765.3	777.5	783.6	784.6
145°	645.0	671.5	693.9	713.3	720.4	728.6	740.8	753.0	759.2	760.2
147.5°	624.6	649.1	670.5	688.8	697.0	703.1	714.3	725.5	731.6	732.7
150°	601.2	623.6	643.0	661.3	668.5	674.6	686.8	697.0	703.1	704.1
152.5°	578.8	600.2	616.5	632.8	639.9	646.0	656.2	666.4	672.5	673.6
155°	555.4	574.7	591.0	604.3	610.4	616.5	624.6	633.8	638.9	639.9
157.5°	530.9	549.2	563.5	575.7	581.8	586.9	594.1	602.2	605.3	607.3
160°	504.4	519.7	531.9	544.1	549.2	554.3	561.5	567.6	571.7	572.7
162.5°	475.9	489.1	499.3	510.5	513.6	517.7	524.8	530.9	534.0	535.0
165°	446.3	458.5	467.7	476.9	478.9	482.0	487.1	493.2	495.2	497.3
167.5°	416.8	427.0	433.1	441.2	444.3	446.3	451.4	455.5	457.5	458.5
170°	388.2	395.4	400.5	406.6	407.6	410.7	413.7	417.8	418.8	418.8
172.5°	365.8	368.9	371.9	374.0	375.0	376.0	378.0	379.1	379.1	379.1
175°	351.6	353.6	353.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6
177.5°	343.4	343.4	343.4	342.4	342.4	342.4	342.4	341.4	341.4	341.4
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4

(END OF REPORT)