

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: P395729

Luminaire Tested: **I3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)  
Description: CORELITE I3, OPEN TOP  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5192.9 lumens  
Efficiency: N/A  
Efficacy: 143.1 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

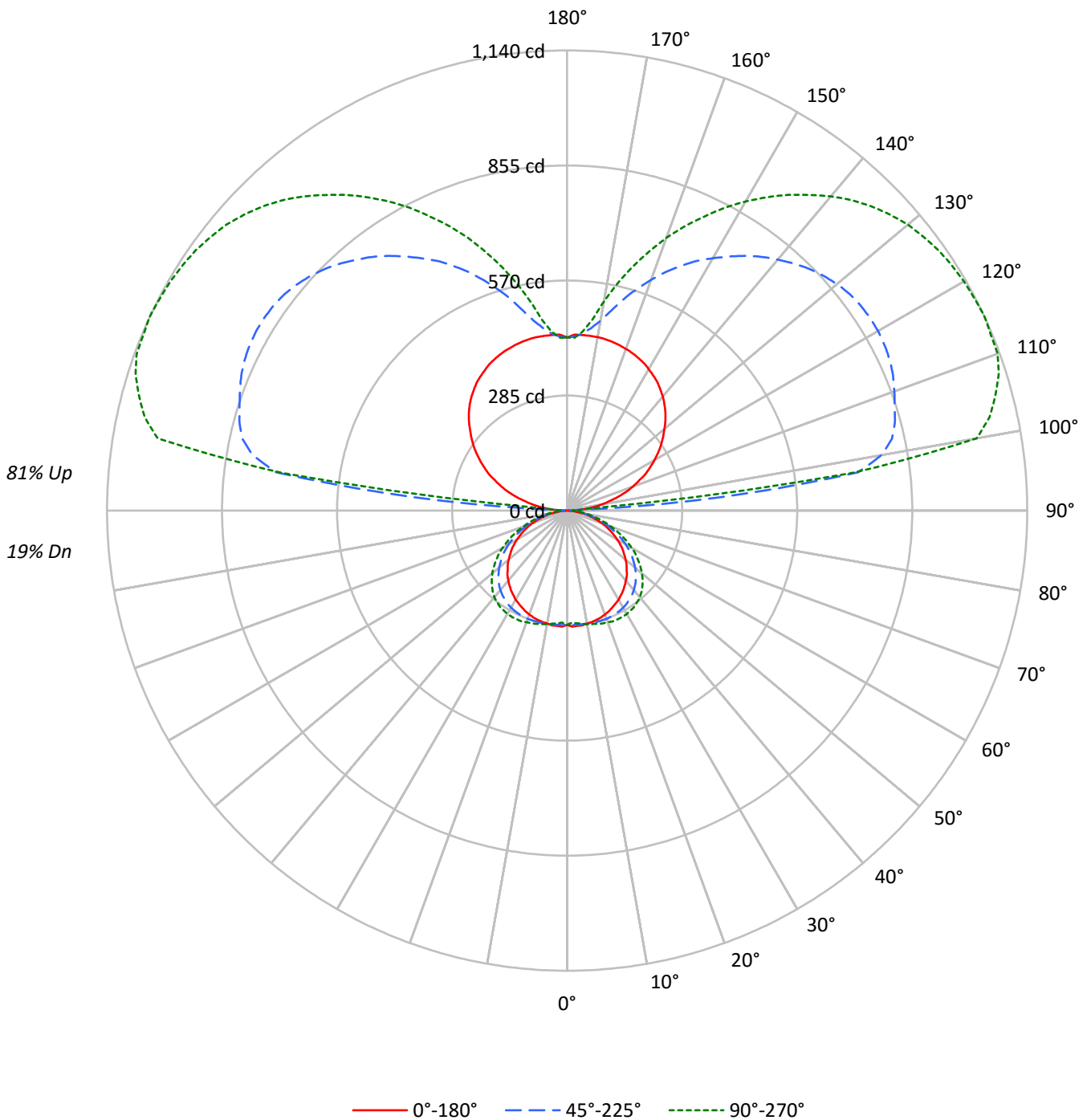
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395729

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395729

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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°	1554	1554	1554
5°	1576	1532	1503
10°	1574	1522	1504
15°	1577	1516	1518
20°	1578	1522	1535
25°	1575	1526	1558
30°	1578	1528	1573
35°	1576	1521	1580
40°	1569	1509	1572
45°	1555	1478	1537
50°	1541	1429	1480
55°	1515	1360	1396
60°	1467	1262	1284
65°	1403	1124	1145
70°	1325	974	966
75°	1149	764	775
80°	913	549	561
85°	543	320	370



TEST NUMBER: P395729

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.1	0.5
10°-20°	80.7	1.6
20°-30°	129.8	2.5
30°-40°	167.1	3.2
40°-50°	183.5	3.5
50°-60°	172.5	3.3
60°-70°	134.0	2.6
70°-80°	76.9	1.5
80°-90°	24.6	0.5
90°-100°	332.0	6.4
100°-110°	788.8	15.2
110°-120°	792.4	15.3
120°-130°	726.7	14.0
130°-140°	607.7	11.7
140°-150°	456.1	8.8
150°-160°	296.9	5.7
160°-170°	152.9	2.9
170°-180°	43.3	0.8
0°-30°	237.6	4.6
0°-40°	404.6	7.8
0°-60°	760.6	14.6
0°-90°	996.1	19.2
90°-120°	1913.2	36.8
90°-150°	3703.7	71.3
90°-180°	4197.0	80.8
0°-180°	5192.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	287	284	284	283	280	27
15°	280	279	285	289	290	79
25°	265	268	283	293	297	122
35°	242	248	269	285	290	151
45°	209	219	241	258	264	161
55°	168	177	196	210	215	149
65°	118	124	136	147	151	117
75°	63	65	72	79	82	67
85°	13	15	20	27	28	15
90°	1	4	8	12	13	4
95°	45	371	381	51	44	45
105°	129	498	841	1037	1098	137
115°	214	560	882	1072	1140	210
125°	284	585	887	1062	1124	254
135°	344	582	847	1007	1066	265
145°	389	558	770	905	955	243
155°	417	512	669	767	804	193
165°	433	462	543	602	624	122
175°	436	435	440	445	445	42
180°	429	429	429	429	429	



TEST NUMBER: P395729

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	282.8	282.8	282.8	282.8	282.8	282.8	282.8	282.8	282.8	282.8	282.8
2.5°	287.9	286.7	285.4	285.4	284.1	284.1	284.1	282.8	282.8	282.8	284.1
5°	286.7	286.7	285.4	284.1	284.1	284.1	282.8	282.8	282.8	282.8	284.1
7.5°	286.7	285.4	284.1	284.1	282.8	282.8	282.8	282.8	282.8	282.8	284.1
10°	284.1	284.1	282.8	282.8	281.6	282.8	282.8	282.8	282.8	282.8	285.4
12.5°	282.8	282.8	281.6	280.3	280.3	280.3	281.6	281.6	281.6	282.8	285.4
15°	280.3	280.3	279.0	279.0	279.0	279.0	280.3	280.3	281.6	282.8	285.4
17.5°	277.7	277.7	276.4	276.4	276.4	277.7	277.7	279.0	280.3	282.8	285.4
20°	273.9	273.9	273.9	273.9	273.9	275.2	275.2	276.4	279.0	281.6	285.4
22.5°	270.0	270.0	270.0	270.0	270.0	271.3	272.6	275.2	276.4	280.3	284.1
25°	264.9	264.9	264.9	264.9	266.2	267.5	268.8	271.3	273.9	277.7	282.8
27.5°	259.8	261.1	261.1	261.1	262.4	263.6	264.9	267.5	271.3	276.4	280.3
30°	254.7	254.7	254.7	256.0	257.2	258.5	261.1	263.6	267.5	272.6	277.7
32.5°	248.3	248.3	249.6	249.6	252.1	253.4	256.0	259.8	263.6	268.8	273.9
35°	241.9	241.9	241.9	244.4	245.7	248.3	249.6	253.4	258.5	263.6	268.8
37.5°	234.2	235.5	235.5	236.8	239.3	241.9	243.2	248.3	253.4	258.5	263.6
40°	226.5	227.8	227.8	229.1	232.9	234.2	236.8	241.9	245.7	252.1	257.2
42.5°	218.8	218.8	220.1	221.4	225.2	226.5	229.1	234.2	239.3	244.4	249.6
45°	208.6	209.9	211.2	212.4	216.3	218.8	221.4	225.2	230.4	235.5	240.6
47.5°	199.6	199.6	200.9	203.5	207.3	209.9	211.2	216.3	220.1	225.2	230.4
50°	189.4	190.7	190.7	193.2	197.1	199.6	200.9	206.0	209.9	215.0	220.1
52.5°	177.9	179.2	180.4	183.0	186.8	189.4	190.7	194.5	198.4	203.5	207.3
55°	167.7	168.9	168.9	171.5	175.3	176.6	179.2	181.7	186.8	190.7	195.8
57.5°	156.1	157.4	157.4	160.0	162.5	165.1	166.4	170.2	174.0	177.9	181.7
60°	143.3	144.6	145.9	147.2	149.7	152.3	153.6	156.1	160.0	163.8	167.7
62.5°	130.5	131.8	133.1	134.4	136.9	138.2	139.5	143.3	145.9	149.7	152.3
65°	117.7	119.0	120.3	121.6	122.9	124.1	125.4	128.0	130.5	134.4	135.7
67.5°	104.9	106.2	106.2	107.5	108.8	110.1	111.3	113.9	115.2	119.0	120.3
70°	92.1	92.1	92.1	93.4	93.4	94.7	96.0	98.5	99.8	102.4	104.9
72.5°	76.8	78.1	78.1	78.1	79.3	80.6	81.9	83.2	84.5	85.7	88.3
75°	62.7	64.0	62.7	64.0	65.3	65.3	66.5	67.8	69.1	70.4	71.7
77.5°	49.9	48.6	49.9	49.9	51.2	51.2	51.2	52.5	55.0	55.0	57.6
80°	35.8	35.8	35.8	35.8	37.1	37.1	38.4	38.4	41.0	42.2	43.5
82.5°	23.0	23.0	24.3	24.3	24.3	25.6	25.6	26.9	28.2	29.4	30.7
85°	12.8	12.8	12.8	14.1	14.1	15.4	15.4	16.6	17.9	19.2	20.5
87.5°	3.8	5.1	6.4	6.4	7.7	7.7	9.0	9.0	11.5	12.8	14.1
90°	1.3	1.3	2.6	2.6	2.6	3.8	3.8	5.1	5.1	6.4	7.7
92.5°	21.8	51.2	106.2	158.7	136.9	128.0	76.8	23.0	20.5	21.8	21.8
95°	44.8	84.5	154.9	250.8	325.1	371.1	401.8	460.7	520.9	510.6	381.4
97.5°	65.3	108.8	186.8	275.2	377.5	430.0	469.7	540.1	616.9	680.8	726.9
100°	85.7	130.5	213.7	305.9	400.6	447.9	494.0	590.0	665.5	729.5	790.9
102.5°	107.5	152.3	238.0	334.0	427.4	473.5	518.3	602.8	687.2	764.0	824.2
105°	129.3	175.3	259.8	358.3	451.8	497.8	541.3	622.0	700.0	771.7	840.8
107.5°	152.3	195.8	279.0	377.5	471.0	517.0	560.5	641.2	716.7	788.3	851.0
110°	172.8	215.0	298.2	395.4	488.9	534.9	578.5	659.1	733.3	801.1	862.6



TEST NUMBER: P395729

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	192.0	232.9	316.1	410.8	503.0	549.0	591.3	671.9	746.1	812.7	874.1
115°	213.7	249.6	334.0	424.9	515.7	560.5	602.8	682.1	756.3	821.6	881.8
117.5°	231.6	266.2	349.4	436.4	526.0	569.5	610.5	689.8	762.7	828.0	886.9
120°	249.6	281.6	363.5	446.6	533.7	575.9	616.9	694.9	767.9	831.9	889.4
122.5°	267.5	296.9	375.0	456.9	540.1	582.3	622.0	698.8	770.4	833.1	889.4
125°	284.1	309.7	385.2	464.6	543.9	584.9	623.2	698.8	769.1	830.6	886.9
127.5°	299.5	323.8	392.9	472.2	546.5	586.1	623.2	696.2	766.6	826.7	881.8
130°	314.8	336.6	400.6	476.1	549.0	584.9	620.7	691.1	760.2	820.3	872.8
132.5°	330.2	350.7	407.0	479.9	550.3	584.9	618.1	686.0	752.5	811.4	861.3
135°	344.3	360.9	413.4	482.5	549.0	582.3	613.0	677.0	741.0	798.6	847.2
137.5°	357.1	371.1	418.5	483.8	547.7	578.5	609.2	666.8	726.9	783.2	830.6
140°	368.6	381.4	421.0	483.8	542.6	573.3	601.5	656.5	711.6	765.3	811.4
142.5°	378.8	390.3	424.9	481.2	537.5	566.9	593.8	646.3	696.2	747.4	792.2
145°	389.1	398.0	427.4	479.9	531.1	558.0	583.6	633.5	682.1	728.2	770.4
147.5°	396.7	405.7	430.0	474.8	523.4	547.7	572.1	619.4	664.2	707.7	746.1
150°	404.4	412.1	431.3	469.7	514.5	536.2	558.0	602.8	646.3	686.0	721.8
152.5°	412.1	417.2	435.1	464.6	504.2	524.7	546.5	586.1	625.8	662.9	697.5
155°	417.2	421.0	436.4	459.4	494.0	511.9	529.8	566.9	602.8	637.3	669.3
157.5°	422.3	426.2	437.7	455.6	482.5	499.1	514.5	546.5	579.7	610.5	639.9
160°	426.2	428.7	437.7	453.0	472.2	483.8	497.8	527.3	555.4	582.3	607.9
162.5°	430.0	431.3	437.7	449.2	463.3	471.0	481.2	504.2	529.8	552.9	575.9
165°	432.6	433.8	437.7	446.6	455.6	462.0	467.1	483.8	503.0	523.4	542.6
167.5°	435.1	435.1	437.7	444.1	449.2	453.0	456.9	465.8	478.6	494.0	508.1
170°	436.4	436.4	437.7	441.5	445.4	446.6	449.2	454.3	460.7	468.4	477.4
172.5°	436.4	436.4	436.4	439.0	440.2	440.2	440.2	442.8	446.6	451.8	455.6
175°	436.4	435.1	435.1	436.4	435.1	435.1	435.1	435.1	436.4	439.0	440.2
177.5°	436.4	435.1	433.8	433.8	432.6	432.6	431.3	431.3	431.3	431.3	431.3
180°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7



TEST NUMBER: P395729

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	282.8	282.8	282.8	282.8	282.8	282.8	282.8	282.8	282.8	282.8
2.5°	284.1	284.1	282.8	281.6	281.6	281.6	280.3	279.0	277.7	277.7
5°	284.1	284.1	282.8	282.8	282.8	282.8	281.6	281.6	280.3	280.3
7.5°	285.4	284.1	284.1	284.1	284.1	284.1	284.1	284.1	282.8	282.8
10°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4
12.5°	286.7	286.7	286.7	286.7	287.9	287.9	287.9	287.9	287.9	287.9
15°	286.7	287.9	289.2	289.2	289.2	290.5	290.5	290.5	290.5	290.5
17.5°	287.9	289.2	290.5	290.5	291.8	291.8	293.1	293.1	293.1	293.1
20°	287.9	289.2	290.5	291.8	293.1	293.1	294.3	295.6	295.6	294.3
22.5°	286.7	289.2	290.5	291.8	293.1	294.3	295.6	296.9	296.9	296.9
25°	285.4	287.9	290.5	293.1	293.1	294.3	296.9	296.9	296.9	296.9
27.5°	284.1	286.7	289.2	291.8	293.1	294.3	295.6	296.9	296.9	296.9
30°	281.6	285.4	287.9	290.5	291.8	293.1	294.3	295.6	295.6	295.6
32.5°	277.7	281.6	284.1	287.9	289.2	290.5	291.8	293.1	293.1	293.1
35°	273.9	277.7	280.3	284.1	285.4	286.7	289.2	289.2	290.5	290.5
37.5°	267.5	272.6	275.2	279.0	280.3	281.6	284.1	285.4	285.4	285.4
40°	261.1	266.2	268.8	272.6	273.9	275.2	277.7	279.0	280.3	280.3
42.5°	253.4	258.5	261.1	264.9	266.2	267.5	270.0	271.3	272.6	272.6
45°	245.7	249.6	252.1	256.0	258.5	258.5	261.1	262.4	263.6	263.6
47.5°	235.5	239.3	241.9	245.7	248.3	249.6	250.8	252.1	253.4	253.4
50°	224.0	227.8	231.6	234.2	236.8	236.8	239.3	240.6	241.9	241.9
52.5°	212.4	215.0	218.8	222.7	224.0	225.2	226.5	227.8	229.1	229.1
55°	199.6	202.2	206.0	208.6	209.9	211.2	212.4	213.7	215.0	215.0
57.5°	185.6	188.1	192.0	194.5	195.8	197.1	198.4	199.6	200.9	200.9
60°	170.2	172.8	176.6	179.2	180.4	180.4	183.0	184.3	184.3	184.3
62.5°	154.9	157.4	160.0	162.5	163.8	165.1	166.4	167.7	167.7	167.7
65°	139.5	142.1	144.6	145.9	147.2	147.2	148.5	149.7	151.0	151.0
67.5°	122.9	125.4	128.0	129.3	130.5	130.5	131.8	133.1	133.1	133.1
70°	106.2	107.5	110.1	111.3	112.6	112.6	115.2	115.2	115.2	115.2
72.5°	89.6	90.9	93.4	94.7	96.0	96.0	97.3	98.5	98.5	98.5
75°	74.2	75.5	76.8	79.3	79.3	79.3	80.6	81.9	81.9	81.9
77.5°	58.9	60.1	61.4	62.7	64.0	64.0	65.3	66.5	66.5	66.5
80°	44.8	46.1	47.4	48.6	48.6	49.9	49.9	51.2	51.2	51.2
82.5°	32.0	33.3	34.6	35.8	37.1	37.1	38.4	39.7	39.7	38.4
85°	21.8	24.3	25.6	26.9	26.9	26.9	28.2	29.4	29.4	28.2
87.5°	15.4	15.4	16.6	17.9	17.9	19.2	19.2	20.5	20.5	20.5
90°	9.0	9.0	10.2	10.2	11.5	11.5	11.5	12.8	12.8	12.8
92.5°	21.8	21.8	23.0	23.0	23.0	23.0	24.3	24.3	24.3	24.3
95°	232.9	104.9	88.3	53.8	51.2	44.8	43.5	44.8	44.8	43.5
97.5°	781.9	837.0	871.5	888.2	867.7	845.9	821.6	817.8	784.5	710.3
100°	843.4	886.9	929.1	958.5	970.1	980.3	1003.3	1017.4	1023.8	1030.2
102.5°	874.1	920.2	957.3	994.4	1009.7	1023.8	1044.3	1060.9	1067.3	1072.4
105°	901.0	948.3	989.3	1022.5	1036.6	1049.4	1069.9	1085.2	1096.8	1098.0
107.5°	907.4	957.3	1003.3	1044.3	1060.9	1075.0	1099.3	1110.8	1121.1	1121.1
110°	918.9	966.2	1008.5	1045.6	1062.2	1078.8	1104.4	1122.4	1132.6	1135.2





TEST NUMBER: P395729

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	927.8	976.5	1016.1	1053.3	1067.3	1082.7	1107.0	1123.6	1132.6	1136.4
115°	935.5	982.9	1022.5	1057.1	1072.4	1087.8	1112.1	1126.2	1136.4	1140.3
117.5°	940.6	986.7	1026.4	1058.4	1075.0	1087.8	1110.8	1126.2	1136.4	1137.7
120°	941.9	988.0	1026.4	1058.4	1072.4	1086.5	1109.6	1124.9	1135.2	1135.2
122.5°	941.9	986.7	1025.1	1055.8	1068.6	1081.4	1103.2	1121.1	1130.0	1130.0
125°	936.8	981.6	1018.7	1049.4	1062.2	1073.7	1096.8	1113.4	1122.4	1123.6
127.5°	929.1	972.6	1009.7	1040.5	1053.3	1063.5	1087.8	1103.2	1112.1	1113.4
130°	918.9	962.4	998.2	1027.7	1040.5	1052.0	1072.4	1089.1	1099.3	1101.9
132.5°	907.4	948.3	984.1	1012.3	1025.1	1035.3	1055.8	1072.4	1081.4	1085.2
135°	893.3	931.7	966.2	994.4	1007.2	1017.4	1036.6	1053.3	1062.2	1066.1
137.5°	875.4	912.5	945.8	973.9	985.4	995.7	1014.9	1030.2	1037.9	1043.0
140°	854.9	889.4	924.0	949.6	961.1	971.3	988.0	1004.6	1012.3	1016.1
142.5°	833.1	867.7	898.4	924.0	934.2	944.5	961.1	976.5	984.1	985.4
145°	810.1	843.4	871.5	895.8	904.8	915.0	930.4	945.8	953.4	954.7
147.5°	784.5	815.2	842.1	865.1	875.4	883.0	897.1	911.2	918.9	920.2
150°	755.1	783.2	807.5	830.6	839.5	847.2	862.6	875.4	883.0	884.3
152.5°	726.9	753.8	774.3	794.7	803.7	811.4	824.2	837.0	844.7	845.9
155°	697.5	721.8	742.3	758.9	766.6	774.3	784.5	796.0	802.4	803.7
157.5°	666.8	689.8	707.7	723.1	730.8	737.1	746.1	756.3	760.2	762.7
160°	633.5	652.7	668.0	683.4	689.8	696.2	705.2	712.8	718.0	719.2
162.5°	597.7	614.3	627.1	641.2	645.0	650.1	659.1	666.8	670.6	671.9
165°	560.5	575.9	587.4	598.9	601.5	605.3	611.7	619.4	622.0	624.5
167.5°	523.4	536.2	543.9	554.1	558.0	560.5	566.9	572.1	574.6	575.9
170°	487.6	496.6	503.0	510.6	511.9	515.7	519.6	524.7	526.0	526.0
172.5°	459.4	463.3	467.1	469.7	471.0	472.2	474.8	476.1	476.1	476.1
175°	441.5	444.1	444.1	445.4	445.4	445.4	445.4	445.4	445.4	445.4
177.5°	431.3	431.3	431.3	430.0	430.0	430.0	430.0	428.7	428.7	428.7
180°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7

(END OF REPORT)