

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: P393794

Luminaire Tested: **I3-CL-50L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393794
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-50L835-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

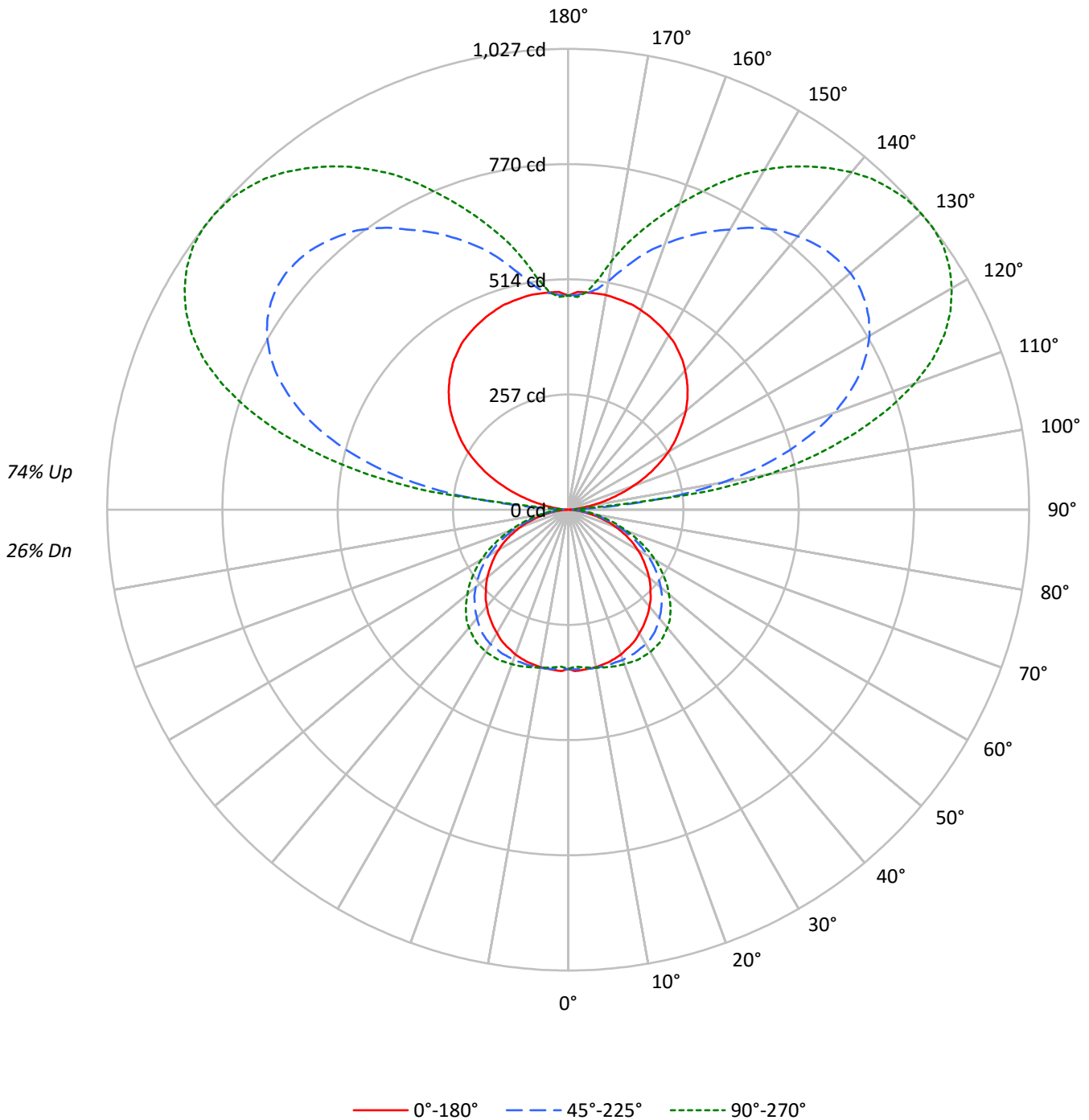
Lumens per Lamp: N/A
Luminaire Lumens: 4677.3 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
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



TEST NUMBER: P393794
CATALOG NUMBER: I3-CL-50L835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P393794

CATALOG NUMBER: I3-CL-50L835-1D-UNV-STD-W-4

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°	1951	1951	1951
5°	1972	1921	1889
10°	1973	1906	1885
15°	1976	1899	1894
20°	1979	1900	1911
25°	1976	1902	1936
30°	1965	1904	1950
35°	1960	1894	1951
40°	1953	1853	1927
45°	1933	1809	1878
50°	1916	1749	1795
55°	1876	1661	1691
60°	1830	1545	1561
65°	1756	1387	1384
70°	1630	1181	1172
75°	1407	939	941
80°	1091	668	689
85°	641	412	462



TEST NUMBER: P393794

CATALOG NUMBER: I3-CL-50L835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	0.7
10°-20°	100.9	2.2
20°-30°	161.8	3.5
30°-40°	206.9	4.4
40°-50°	225.6	4.8
50°-60°	211.4	4.5
60°-70°	164.0	3.5
70°-80°	94.0	2.0
80°-90°	30.1	0.6
90°-100°	120.6	2.6
100°-110°	468.9	10.0
110°-120°	638.4	13.6
120°-130°	662.7	14.2
130°-140°	587.9	12.6
140°-150°	456.1	9.8
150°-160°	304.4	6.5
160°-170°	162.2	3.5
170°-180°	47.5	1.0
0°-30°	296.6	6.3
0°-40°	503.5	10.8
0°-60°	940.4	20.1
0°-90°	1228.5	26.3
90°-120°	1228.0	26.3
90°-150°	2934.7	62.7
90°-180°	3449.0	73.7
0°-180°	4677.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	355	355	355	355	355	
5°	359	355	356	355	352	34
15°	351	350	358	362	362	99
25°	332	335	352	365	369	153
35°	301	307	335	352	359	188
45°	259	271	294	313	322	200
55°	208	219	239	256	260	186
65°	147	154	167	179	182	145
75°	77	81	88	97	99	82
85°	15	18	26	34	35	18
90°	1	4	9	13	15	2
95°	15	86	117	24	23	20
105°	99	301	510	605	663	106
115°	208	464	717	843	925	205
125°	301	548	808	949	1021	269
135°	376	576	816	957	1013	290
145°	429	576	765	889	934	269
155°	462	545	678	769	804	213
165°	481	501	576	631	647	136
175°	486	483	485	487	487	46
180°	477	477	477	477	477	



TEST NUMBER: P393794

CATALOG NUMBER: I3-CL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9
2.5°	360.0	358.7	358.7	356.2	356.2	354.9	354.9	354.9	354.9	354.9	356.2
5°	358.7	358.7	357.5	356.2	356.2	354.9	354.9	354.9	354.9	354.9	356.2
7.5°	357.5	357.5	356.2	354.9	354.9	354.9	354.9	354.9	354.9	354.9	357.5
10°	356.2	356.2	354.9	353.7	353.7	353.7	353.7	354.9	354.9	354.9	357.5
12.5°	353.7	352.4	352.4	351.2	351.2	351.2	352.4	352.4	353.7	354.9	357.5
15°	351.2	351.2	349.9	348.6	349.9	349.9	349.9	351.2	352.4	353.7	357.5
17.5°	347.4	347.4	346.1	346.1	346.1	347.4	347.4	348.6	351.2	353.7	356.2
20°	343.6	342.3	342.3	342.3	343.6	343.6	344.9	347.4	348.6	352.4	356.2
22.5°	337.3	338.6	337.3	337.3	338.6	339.8	341.1	343.6	346.1	349.9	353.7
25°	332.3	332.3	332.3	332.3	334.8	334.8	337.3	339.8	343.6	347.4	352.4
27.5°	326.0	326.0	326.0	327.2	328.5	329.8	331.0	334.8	338.6	343.6	348.6
30°	317.2	317.2	317.2	317.2	321.0	322.2	324.7	329.8	333.5	339.8	346.1
32.5°	309.6	309.6	309.6	310.9	313.4	314.7	317.2	323.5	328.5	334.8	341.1
35°	300.8	300.8	302.1	302.1	305.8	307.1	309.6	314.7	319.7	327.2	334.8
37.5°	292.0	292.0	293.3	294.5	297.0	299.6	302.1	307.1	312.1	318.4	326.0
40°	281.9	281.9	283.2	284.5	288.2	290.7	293.3	298.3	303.3	309.6	315.9
42.5°	271.9	271.9	273.1	274.4	278.2	280.7	283.2	289.5	294.5	300.8	305.8
45°	259.3	260.5	261.8	264.3	268.1	270.6	273.1	278.2	284.5	289.5	294.5
47.5°	248.0	249.2	250.5	253.0	256.8	259.3	261.8	266.8	271.9	276.9	283.2
50°	235.4	236.6	237.9	240.4	244.2	246.7	249.2	254.2	259.3	263.1	269.3
52.5°	221.5	222.8	224.0	226.6	231.6	232.8	235.4	240.4	244.2	249.2	254.2
55°	207.7	208.9	210.2	212.7	216.5	219.0	220.3	225.3	229.1	234.1	239.1
57.5°	193.8	195.1	196.3	198.9	201.4	203.9	205.2	208.9	214.0	217.7	222.8
60°	178.7	180.0	181.2	182.5	186.3	187.5	188.8	192.6	196.3	201.4	205.2
62.5°	163.6	163.6	164.9	166.1	169.9	171.2	172.4	175.0	180.0	182.5	186.3
65°	147.3	147.3	148.5	149.8	152.3	153.6	154.8	157.3	161.1	163.6	167.4
67.5°	129.6	129.6	130.9	132.2	134.7	135.9	135.9	139.7	142.2	144.7	147.3
70°	113.3	113.3	114.5	114.5	115.8	117.1	118.3	120.8	122.1	125.9	127.1
72.5°	95.7	95.7	95.7	95.7	98.2	98.2	99.4	101.9	103.2	105.7	108.2
75°	76.8	76.8	78.0	78.0	79.3	80.6	81.8	83.1	85.6	86.8	88.1
77.5°	60.4	59.2	60.4	61.7	62.9	62.9	64.2	65.4	66.7	69.2	70.5
80°	42.8	42.8	42.8	44.1	45.3	45.3	46.6	47.8	49.1	51.6	52.9
82.5°	27.7	27.7	28.9	28.9	30.2	31.5	31.5	32.7	34.0	36.5	37.8
85°	15.1	15.1	15.1	16.4	17.6	17.6	18.9	20.1	22.7	23.9	26.4
87.5°	5.0	5.0	6.3	7.6	8.8	8.8	10.1	11.3	12.6	15.1	16.4
90°	1.3	1.3	1.3	2.5	2.5	3.8	3.8	5.0	6.3	7.6	8.8
92.5°	5.0	8.8	13.8	20.1	18.9	20.1	13.8	8.8	8.8	8.8	10.1
95°	15.1	22.7	36.5	57.9	75.5	85.6	94.4	103.2	120.8	122.1	117.1
97.5°	30.2	41.5	66.7	94.4	125.9	142.2	154.8	181.2	208.9	226.6	248.0
100°	50.3	66.7	99.4	137.2	173.7	195.1	215.2	253.0	287.0	317.2	349.9
102.5°	74.3	93.1	133.4	180.0	225.3	249.2	270.6	314.7	361.2	401.5	436.7
105°	99.4	120.8	168.7	221.5	273.1	300.8	327.2	375.1	424.2	468.2	509.7
107.5°	127.1	149.8	201.4	260.5	318.4	349.9	378.8	430.5	482.1	529.9	573.9
110°	153.6	178.7	232.8	297.0	362.5	394.0	422.9	479.5	533.7	584.0	630.6



TEST NUMBER: P393794

CATALOG NUMBER: I3-CL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	181.2	207.7	261.8	332.3	399.0	431.7	461.9	522.3	579.0	630.6	677.1
115°	207.7	232.8	289.5	362.5	430.5	464.4	497.2	558.8	618.0	669.6	717.4
117.5°	232.8	256.8	314.7	387.7	458.1	492.1	524.9	589.0	648.2	702.3	748.9
120°	258.0	279.4	342.3	409.1	480.8	514.8	548.8	613.0	673.4	727.5	775.3
122.5°	280.7	300.8	362.5	427.9	498.4	533.7	566.4	631.8	693.5	747.6	794.2
125°	300.8	319.7	381.4	443.0	513.5	547.5	581.5	645.7	707.4	760.2	808.0
127.5°	321.0	339.8	395.2	458.1	523.6	558.8	591.6	655.7	716.2	770.3	816.9
130°	342.3	356.2	409.1	472.0	533.7	566.4	600.4	662.0	721.2	774.1	820.6
132.5°	360.0	372.6	422.9	483.3	541.2	572.7	602.9	664.6	723.7	774.1	819.4
135°	376.3	386.4	433.0	493.4	547.5	576.5	605.4	663.3	721.2	771.5	815.6
137.5°	391.4	401.5	441.8	500.9	552.5	577.7	605.4	659.5	714.9	765.2	806.8
140°	405.3	412.8	449.3	504.7	555.1	579.0	602.9	653.2	704.8	753.9	795.5
142.5°	419.1	425.4	455.6	507.2	556.3	579.0	601.6	645.7	693.5	741.3	782.9
145°	429.2	435.5	460.7	508.5	555.1	576.5	596.6	638.1	680.9	725.0	765.2
147.5°	440.5	445.6	465.7	506.0	551.3	571.4	590.3	628.1	667.1	707.4	745.1
150°	448.1	453.1	468.2	503.5	545.0	563.9	582.7	618.0	653.2	688.5	721.2
152.5°	455.6	459.4	472.0	499.7	537.4	555.1	572.7	606.7	639.4	670.9	699.8
155°	461.9	465.7	474.5	497.2	528.6	545.0	561.4	594.1	624.3	652.0	678.4
157.5°	468.2	470.7	477.0	493.4	518.6	533.7	548.8	577.7	605.4	633.1	654.5
160°	473.2	474.5	479.5	492.1	509.7	521.1	534.9	561.4	586.5	610.4	630.6
162.5°	478.3	478.3	482.1	489.6	502.2	509.7	519.8	542.5	565.1	586.5	605.4
165°	480.8	480.8	483.3	488.3	495.9	500.9	507.2	522.3	540.0	558.8	576.5
167.5°	483.3	483.3	484.6	487.1	492.1	494.6	497.2	507.2	518.6	532.4	546.2
170°	485.8	484.6	484.6	487.1	488.3	489.6	490.9	495.9	500.9	509.7	517.3
172.5°	485.8	484.6	484.6	485.8	485.8	485.8	485.8	487.1	488.3	493.4	495.9
175°	485.8	484.6	484.6	484.6	484.6	483.3	483.3	483.3	483.3	483.3	484.6
177.5°	485.8	484.6	483.3	483.3	482.1	482.1	480.8	480.8	479.5	479.5	479.5
180°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0



TEST NUMBER: P393794

CATALOG NUMBER: I3-CL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9
2.5°	356.2	356.2	354.9	354.9	353.7	353.7	352.4	351.2	349.9	349.9
5°	357.5	356.2	354.9	354.9	354.9	353.7	353.7	353.7	352.4	352.4
7.5°	357.5	357.5	357.5	356.2	356.2	356.2	356.2	356.2	354.9	354.9
10°	358.7	358.7	358.7	358.7	358.7	358.7	358.7	357.5	357.5	357.5
12.5°	358.7	358.7	358.7	360.0	360.0	360.0	360.0	360.0	360.0	360.0
15°	360.0	360.0	361.2	361.2	362.5	362.5	363.7	363.7	363.7	362.5
17.5°	358.7	360.0	361.2	362.5	363.7	363.7	365.0	365.0	365.0	365.0
20°	358.7	361.2	362.5	363.7	365.0	365.0	366.3	367.5	367.5	366.3
22.5°	357.5	360.0	361.2	363.7	365.0	365.0	367.5	367.5	367.5	367.5
25°	356.2	358.7	361.2	363.7	365.0	365.0	367.5	367.5	368.8	368.8
27.5°	353.7	356.2	360.0	362.5	363.7	365.0	366.3	367.5	367.5	367.5
30°	349.9	353.7	357.5	360.0	361.2	362.5	363.7	365.0	366.3	366.3
32.5°	344.9	348.6	352.4	356.2	357.5	358.7	361.2	362.5	362.5	362.5
35°	339.8	343.6	347.4	351.2	352.4	353.7	356.2	357.5	358.7	358.7
37.5°	332.3	336.1	339.8	343.6	344.9	347.4	349.9	351.2	351.2	351.2
40°	321.0	327.2	332.3	336.1	337.3	339.8	341.1	343.6	343.6	343.6
42.5°	310.9	315.9	319.7	324.7	326.0	329.8	332.3	333.5	334.8	334.8
45°	299.6	304.6	308.4	312.1	313.4	315.9	318.4	319.7	321.0	322.2
47.5°	288.2	292.0	295.8	299.6	300.8	303.3	305.8	307.1	308.4	308.4
50°	274.4	278.2	281.9	285.7	287.0	289.5	290.7	292.0	293.3	293.3
52.5°	259.3	263.1	266.8	270.6	271.9	273.1	275.6	276.9	278.2	278.2
55°	244.2	248.0	250.5	254.2	255.5	256.8	258.0	260.5	261.8	260.5
57.5°	226.6	230.3	232.8	236.6	237.9	239.1	240.4	241.7	242.9	242.9
60°	207.7	211.5	215.2	217.7	219.0	220.3	221.5	222.8	224.0	224.0
62.5°	188.8	192.6	195.1	198.9	200.1	200.1	201.4	202.6	203.9	203.9
65°	169.9	173.7	175.0	178.7	178.7	180.0	181.2	182.5	182.5	182.5
67.5°	149.8	153.6	154.8	157.3	157.3	158.6	159.8	161.1	161.1	161.1
70°	130.9	132.2	134.7	135.9	137.2	137.2	138.4	139.7	141.0	139.7
72.5°	110.8	112.0	114.5	115.8	115.8	117.1	117.1	118.3	119.6	119.6
75°	90.6	93.1	94.4	95.7	96.9	96.9	98.2	99.4	99.4	99.4
77.5°	71.7	74.3	75.5	76.8	78.0	78.0	79.3	79.3	80.6	79.3
80°	55.4	56.6	57.9	59.2	60.4	60.4	61.7	62.9	62.9	62.9
82.5°	40.3	41.5	44.1	45.3	45.3	45.3	47.8	47.8	49.1	47.8
85°	27.7	28.9	31.5	32.7	34.0	34.0	34.0	35.2	36.5	35.2
87.5°	17.6	20.1	21.4	22.7	22.7	22.7	23.9	25.2	25.2	25.2
90°	10.1	10.1	11.3	12.6	12.6	13.8	13.8	15.1	15.1	15.1
92.5°	10.1	11.3	11.3	11.3	12.6	12.6	12.6	13.8	13.8	13.8
95°	85.6	61.7	35.2	27.7	23.9	23.9	22.7	23.9	22.7	22.7
97.5°	259.3	280.7	290.7	304.6	312.1	310.9	305.8	310.9	307.1	310.9
100°	368.8	388.9	404.0	407.8	415.3	419.1	433.0	443.0	448.1	454.4
102.5°	458.1	482.1	499.7	509.7	517.3	522.3	538.7	553.8	561.4	566.4
105°	540.0	565.1	586.5	596.6	605.4	610.4	628.1	645.7	657.0	663.3
107.5°	605.4	634.4	657.0	672.1	680.9	689.7	711.1	728.7	742.6	748.9
110°	664.6	693.5	717.4	735.0	745.1	753.9	777.8	798.0	813.1	820.6



TEST NUMBER: P393794

CATALOG NUMBER: I3-CL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	713.6	745.1	769.0	787.9	798.0	810.6	833.2	855.9	871.0	879.8
115°	753.9	786.6	811.8	832.0	843.3	854.6	881.0	903.7	918.8	925.1
117.5°	787.9	820.6	847.1	867.2	879.8	892.4	918.8	938.9	955.3	960.3
120°	815.6	848.3	874.8	897.4	910.0	921.3	946.5	967.9	983.0	986.8
122.5°	834.5	868.5	896.1	921.3	932.6	944.0	967.9	989.3	1003.1	1006.9
125°	848.3	883.6	911.3	937.7	949.0	960.3	983.0	1004.4	1015.7	1020.8
127.5°	857.1	892.4	922.6	947.8	960.3	970.4	993.1	1011.9	1023.3	1027.0
130°	859.6	896.1	926.4	952.8	964.1	974.2	995.6	1014.5	1024.5	1027.0
132.5°	859.6	894.9	926.4	951.5	962.9	972.9	993.1	1010.7	1020.8	1023.3
135°	854.6	888.6	920.1	945.2	956.6	966.6	986.8	1001.9	1011.9	1013.2
137.5°	845.8	878.5	908.7	933.9	945.2	955.3	972.9	989.3	998.1	1000.6
140°	834.5	864.7	894.9	918.8	930.1	938.9	956.6	970.4	979.2	981.7
142.5°	819.4	849.6	877.3	901.2	910.0	920.1	935.2	949.0	956.6	959.1
145°	803.0	832.0	857.1	878.5	888.6	897.4	911.3	923.8	931.4	933.9
147.5°	781.6	810.6	834.5	854.6	863.4	872.2	884.8	896.1	903.7	906.2
150°	755.2	781.6	806.8	825.7	834.5	843.3	855.9	865.9	873.5	874.8
152.5°	728.7	753.9	775.3	794.2	803.0	811.8	823.1	833.2	842.0	842.0
155°	703.6	725.0	745.1	761.5	769.0	776.6	787.9	796.7	804.3	804.3
157.5°	677.1	697.3	713.6	728.7	735.0	741.3	751.4	759.0	765.2	764.0
160°	652.0	667.1	682.2	694.8	701.1	706.1	713.6	719.9	726.2	725.0
162.5°	624.3	638.1	650.7	659.5	664.6	668.3	675.9	682.2	686.0	686.0
165°	592.8	605.4	616.7	625.5	630.6	633.1	639.4	643.2	646.9	646.9
167.5°	560.1	570.2	580.2	587.8	592.8	595.3	601.6	604.1	609.2	607.9
170°	527.4	534.9	542.5	548.8	551.3	553.8	558.8	561.4	563.9	563.9
172.5°	500.9	503.5	507.2	512.3	512.3	513.5	516.0	517.3	518.6	518.6
175°	485.8	487.1	487.1	487.1	487.1	487.1	488.3	487.1	488.3	487.1
177.5°	479.5	479.5	478.3	478.3	477.0	478.3	477.0	475.8	475.8	474.5
180°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)