

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: P393793

Luminaire Tested: **I3-CL-50L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393793
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-50L830-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

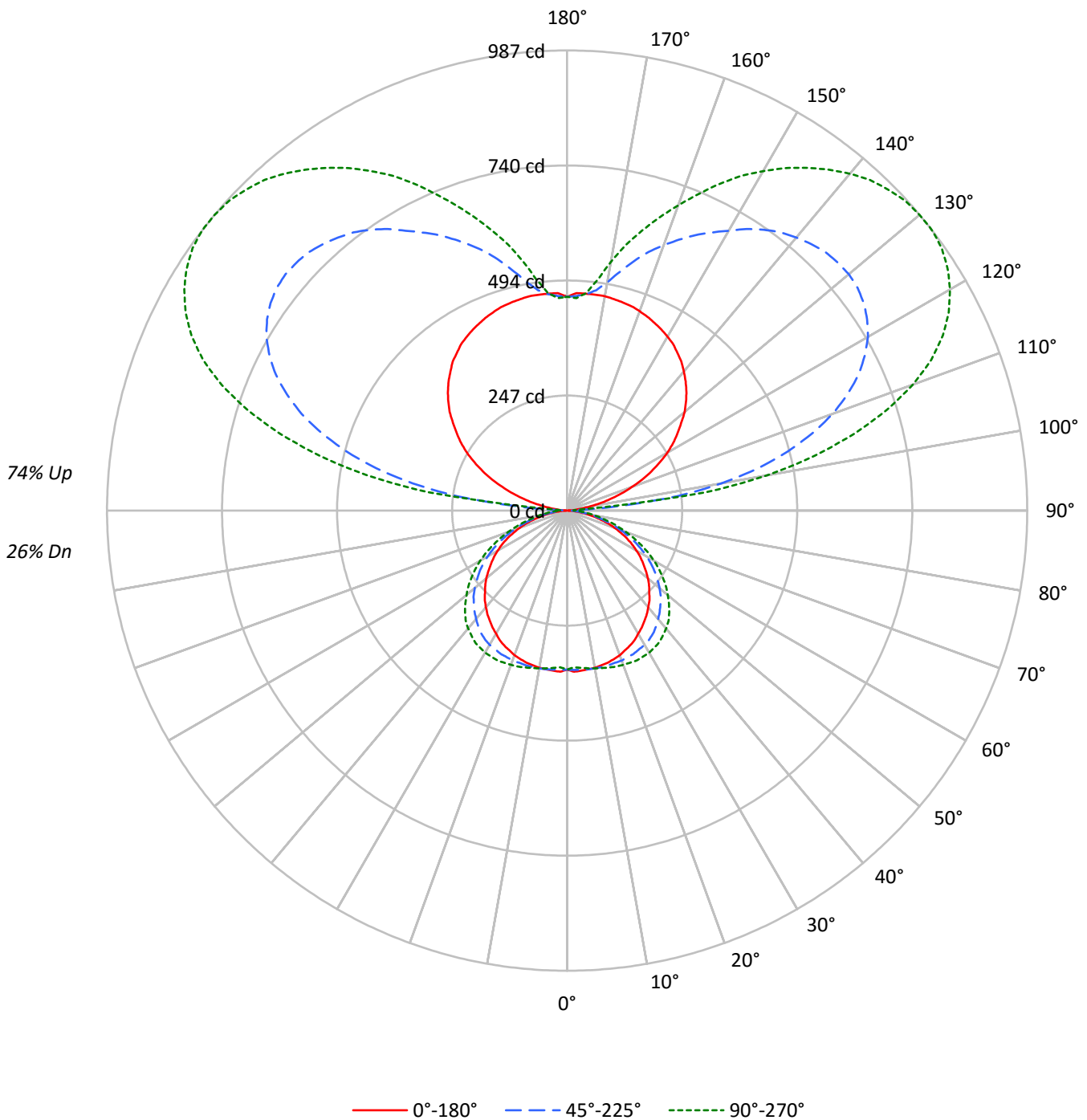
Lumens per Lamp: N/A
Luminaire Lumens: 4494.9 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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



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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	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°	1875	1875	1875
5°	1895	1846	1816
10°	1896	1831	1811
15°	1899	1825	1819
20°	1902	1826	1836
25°	1899	1828	1860
30°	1888	1830	1874
35°	1884	1820	1875
40°	1877	1781	1851
45°	1858	1738	1805
50°	1841	1681	1725
55°	1803	1596	1626
60°	1759	1484	1500
65°	1686	1333	1330
70°	1567	1135	1127
75°	1352	903	905
80°	1048	641	663
85°	615	397	444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	0.7
10°-20°	97.0	2.2
20°-30°	155.5	3.5
30°-40°	198.8	4.4
40°-50°	216.8	4.8
50°-60°	203.1	4.5
60°-70°	157.6	3.5
70°-80°	90.3	2.0
80°-90°	28.9	0.6
90°-100°	115.9	2.6
100°-110°	450.7	10.0
110°-120°	613.5	13.6
120°-130°	636.9	14.2
130°-140°	564.9	12.6
140°-150°	438.3	9.8
150°-160°	292.5	6.5
160°-170°	155.9	3.5
170°-180°	45.6	1.0
0°-30°	285.0	6.3
0°-40°	483.9	10.8
0°-60°	903.7	20.1
0°-90°	1180.5	26.3
90°-120°	1180.1	26.3
90°-150°	2820.3	62.7
90°-180°	3314.0	73.7
0°-180°	4494.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	341	341	341	341	341	
5°	345	341	342	341	339	33
15°	338	336	344	348	348	95
25°	319	322	339	351	354	147
35°	289	295	322	339	345	181
45°	249	260	283	301	310	193
55°	200	210	230	246	250	178
65°	142	148	161	172	175	139
75°	74	77	85	93	96	79
85°	14	17	25	33	34	17
90°	1	4	8	12	14	2
95°	14	82	112	23	22	19
105°	96	289	490	582	637	102
115°	200	446	689	810	889	197
125°	289	526	776	912	981	259
135°	362	554	784	919	974	279
145°	412	554	735	854	898	258
155°	444	524	652	739	773	205
165°	462	481	554	606	622	131
175°	467	464	466	468	468	45
180°	458	458	458	458	458	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	345.9	344.7	344.7	342.3	342.3	341.1	341.1	341.1	341.1	341.1	342.3
5°	344.7	344.7	343.5	342.3	342.3	341.1	341.1	341.1	341.1	341.1	342.3
7.5°	343.5	343.5	342.3	341.1	341.1	341.1	341.1	341.1	341.1	341.1	343.5
10°	342.3	342.3	341.1	339.9	339.9	339.9	339.9	341.1	341.1	341.1	343.5
12.5°	339.9	338.7	338.7	337.5	337.5	337.5	338.7	338.7	339.9	341.1	343.5
15°	337.5	337.5	336.3	335.0	336.3	336.3	336.3	337.5	338.7	339.9	343.5
17.5°	333.8	333.8	332.6	332.6	332.6	333.8	333.8	335.0	337.5	339.9	342.3
20°	330.2	329.0	329.0	329.0	330.2	330.2	331.4	333.8	335.0	338.7	342.3
22.5°	324.2	325.4	324.2	324.2	325.4	326.6	327.8	330.2	332.6	336.3	339.9
25°	319.3	319.3	319.3	319.3	321.7	321.7	324.2	326.6	330.2	333.8	338.7
27.5°	313.3	313.3	313.3	314.5	315.7	316.9	318.1	321.7	325.4	330.2	335.0
30°	304.8	304.8	304.8	304.8	308.4	309.6	312.1	316.9	320.5	326.6	332.6
32.5°	297.5	297.5	297.5	298.8	301.2	302.4	304.8	310.9	315.7	321.7	327.8
35°	289.1	289.1	290.3	290.3	293.9	295.1	297.5	302.4	307.2	314.5	321.7
37.5°	280.6	280.6	281.8	283.0	285.5	287.9	290.3	295.1	300.0	306.0	313.3
40°	270.9	270.9	272.1	273.4	277.0	279.4	281.8	286.7	291.5	297.5	303.6
42.5°	261.3	261.3	262.5	263.7	267.3	269.7	272.1	278.2	283.0	289.1	293.9
45°	249.2	250.4	251.6	254.0	257.6	260.1	262.5	267.3	273.4	278.2	283.0
47.5°	238.3	239.5	240.7	243.1	246.7	249.2	251.6	256.4	261.3	266.1	272.1
50°	226.2	227.4	228.6	231.0	234.7	237.1	239.5	244.3	249.2	252.8	258.8
52.5°	212.9	214.1	215.3	217.7	222.6	223.8	226.2	231.0	234.7	239.5	244.3
55°	199.6	200.8	202.0	204.4	208.0	210.5	211.7	216.5	220.1	225.0	229.8
57.5°	186.3	187.5	188.7	191.1	193.5	195.9	197.2	200.8	205.6	209.3	214.1
60°	171.8	173.0	174.2	175.4	179.0	180.2	181.4	185.1	188.7	193.5	197.2
62.5°	157.2	157.2	158.5	159.7	163.3	164.5	165.7	168.1	173.0	175.4	179.0
65°	141.5	141.5	142.7	143.9	146.4	147.6	148.8	151.2	154.8	157.2	160.9
67.5°	124.6	124.6	125.8	127.0	129.4	130.6	130.6	134.3	136.7	139.1	141.5
70°	108.9	108.9	110.1	110.1	111.3	112.5	113.7	116.1	117.3	121.0	122.2
72.5°	91.9	91.9	91.9	91.9	94.3	94.3	95.6	98.0	99.2	101.6	104.0
75°	73.8	73.8	75.0	75.0	76.2	77.4	78.6	79.8	82.2	83.5	84.7
77.5°	58.1	56.8	58.1	59.3	60.5	60.5	61.7	62.9	64.1	66.5	67.7
80°	41.1	41.1	41.1	42.3	43.5	43.5	44.8	46.0	47.2	49.6	50.8
82.5°	26.6	26.6	27.8	27.8	29.0	30.2	30.2	31.4	32.7	35.1	36.3
85°	14.5	14.5	14.5	15.7	16.9	16.9	18.1	19.4	21.8	23.0	25.4
87.5°	4.8	4.8	6.0	7.3	8.5	8.5	9.7	10.9	12.1	14.5	15.7
90°	1.2	1.2	1.2	2.4	2.4	3.6	3.6	4.8	6.0	7.3	8.5
92.5°	4.8	8.5	13.3	19.4	18.1	19.4	13.3	8.5	8.5	8.5	9.7
95°	14.5	21.8	35.1	55.6	72.6	82.2	90.7	99.2	116.1	117.3	112.5
97.5°	29.0	39.9	64.1	90.7	121.0	136.7	148.8	174.2	200.8	217.7	238.3
100°	48.4	64.1	95.6	131.8	166.9	187.5	206.8	243.1	275.8	304.8	336.3
102.5°	71.4	89.5	128.2	173.0	216.5	239.5	260.1	302.4	347.1	385.8	419.7
105°	95.6	116.1	162.1	212.9	262.5	289.1	314.5	360.4	407.6	450.0	489.9
107.5°	122.2	143.9	193.5	250.4	306.0	336.3	364.1	413.7	463.3	509.2	551.6
110°	147.6	171.8	223.8	285.5	348.3	378.6	406.4	460.8	512.8	561.2	606.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	174.2	199.6	251.6	319.3	383.4	414.9	443.9	502.0	556.4	606.0	650.7
115°	199.6	223.8	278.2	348.3	413.7	446.3	477.8	537.0	593.9	643.5	689.4
117.5°	223.8	246.7	302.4	372.5	440.3	472.9	504.4	566.1	622.9	674.9	719.7
120°	248.0	268.5	329.0	393.1	462.0	494.7	527.4	589.0	647.1	699.1	745.1
122.5°	269.7	289.1	348.3	411.2	479.0	512.8	544.3	607.2	666.5	718.5	763.2
125°	289.1	307.2	366.5	425.8	493.5	526.2	558.8	620.5	679.8	730.6	776.5
127.5°	308.4	326.6	379.8	440.3	503.2	537.0	568.5	630.2	688.2	740.2	785.0
130°	329.0	342.3	393.1	453.6	512.8	544.3	577.0	636.2	693.1	743.9	788.6
132.5°	345.9	358.0	406.4	464.5	520.1	550.3	579.4	638.6	695.5	743.9	787.4
135°	361.7	371.3	416.1	474.1	526.2	554.0	581.8	637.4	693.1	741.5	783.8
137.5°	376.2	385.8	424.6	481.4	531.0	555.2	581.8	633.8	687.0	735.4	775.3
140°	389.5	396.7	431.8	485.0	533.4	556.4	579.4	627.8	677.3	724.5	764.4
142.5°	402.8	408.8	437.9	487.4	534.6	556.4	578.2	620.5	666.5	712.4	752.3
145°	412.5	418.5	442.7	488.7	533.4	554.0	573.3	613.2	654.4	696.7	735.4
147.5°	423.3	428.2	447.5	486.2	529.8	549.1	567.3	603.6	641.1	679.8	716.1
150°	430.6	435.4	450.0	483.8	523.7	541.9	560.0	593.9	627.8	661.6	693.1
152.5°	437.9	441.5	453.6	480.2	516.5	533.4	550.3	583.0	614.4	644.7	672.5
155°	443.9	447.5	456.0	477.8	508.0	523.7	539.5	570.9	599.9	626.5	651.9
157.5°	450.0	452.4	458.4	474.1	498.3	512.8	527.4	555.2	581.8	608.4	629.0
160°	454.8	456.0	460.8	472.9	489.9	500.8	514.1	539.5	563.6	586.6	606.0
162.5°	459.6	459.6	463.3	470.5	482.6	489.9	499.5	521.3	543.1	563.6	581.8
165°	462.0	462.0	464.5	469.3	476.6	481.4	487.4	502.0	518.9	537.0	554.0
167.5°	464.5	464.5	465.7	468.1	472.9	475.4	477.8	487.4	498.3	511.6	524.9
170°	466.9	465.7	465.7	468.1	469.3	470.5	471.7	476.6	481.4	489.9	497.1
172.5°	466.9	465.7	465.7	466.9	466.9	466.9	466.9	468.1	469.3	474.1	476.6
175°	466.9	465.7	465.7	465.7	465.7	464.5	464.5	464.5	464.5	464.5	465.7
177.5°	466.9	465.7	464.5	464.5	463.3	463.3	462.0	462.0	460.8	460.8	460.8
180°	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	342.3	342.3	341.1	341.1	339.9	339.9	338.7	337.5	336.3	336.3
5°	343.5	342.3	341.1	341.1	341.1	339.9	339.9	339.9	338.7	338.7
7.5°	343.5	343.5	343.5	342.3	342.3	342.3	342.3	342.3	341.1	341.1
10°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	343.5	343.5	343.5
12.5°	344.7	344.7	344.7	345.9	345.9	345.9	345.9	345.9	345.9	345.9
15°	345.9	345.9	347.1	347.1	348.3	348.3	349.6	349.6	349.6	348.3
17.5°	344.7	345.9	347.1	348.3	349.6	349.6	350.8	350.8	350.8	350.8
20°	344.7	347.1	348.3	349.6	350.8	350.8	352.0	353.2	353.2	352.0
22.5°	343.5	345.9	347.1	349.6	350.8	350.8	353.2	353.2	353.2	353.2
25°	342.3	344.7	347.1	349.6	350.8	350.8	353.2	353.2	354.4	354.4
27.5°	339.9	342.3	345.9	348.3	349.6	350.8	352.0	353.2	353.2	353.2
30°	336.3	339.9	343.5	345.9	347.1	348.3	349.6	350.8	352.0	352.0
32.5°	331.4	335.0	338.7	342.3	343.5	344.7	347.1	348.3	348.3	348.3
35°	326.6	330.2	333.8	337.5	338.7	339.9	342.3	343.5	344.7	344.7
37.5°	319.3	322.9	326.6	330.2	331.4	333.8	336.3	337.5	337.5	337.5
40°	308.4	314.5	319.3	322.9	324.2	326.6	327.8	330.2	330.2	330.2
42.5°	298.8	303.6	307.2	312.1	313.3	316.9	319.3	320.5	321.7	321.7
45°	287.9	292.7	296.3	300.0	301.2	303.6	306.0	307.2	308.4	309.6
47.5°	277.0	280.6	284.2	287.9	289.1	291.5	293.9	295.1	296.3	296.3
50°	263.7	267.3	270.9	274.6	275.8	278.2	279.4	280.6	281.8	281.8
52.5°	249.2	252.8	256.4	260.1	261.3	262.5	264.9	266.1	267.3	267.3
55°	234.7	238.3	240.7	244.3	245.5	246.7	248.0	250.4	251.6	250.4
57.5°	217.7	221.3	223.8	227.4	228.6	229.8	231.0	232.2	233.4	233.4
60°	199.6	203.2	206.8	209.3	210.5	211.7	212.9	214.1	215.3	215.3
62.5°	181.4	185.1	187.5	191.1	192.3	192.3	193.5	194.7	195.9	195.9
65°	163.3	166.9	168.1	171.8	171.8	173.0	174.2	175.4	175.4	175.4
67.5°	143.9	147.6	148.8	151.2	151.2	152.4	153.6	154.8	154.8	154.8
70°	125.8	127.0	129.4	130.6	131.8	131.8	133.1	134.3	135.5	134.3
72.5°	106.4	107.6	110.1	111.3	111.3	112.5	112.5	113.7	114.9	114.9
75°	87.1	89.5	90.7	91.9	93.1	93.1	94.3	95.6	95.6	95.6
77.5°	68.9	71.4	72.6	73.8	75.0	75.0	76.2	76.2	77.4	76.2
80°	53.2	54.4	55.6	56.8	58.1	58.1	59.3	60.5	60.5	60.5
82.5°	38.7	39.9	42.3	43.5	43.5	43.5	46.0	46.0	47.2	46.0
85°	26.6	27.8	30.2	31.4	32.7	32.7	32.7	33.9	35.1	33.9
87.5°	16.9	19.4	20.6	21.8	21.8	21.8	23.0	24.2	24.2	24.2
90°	9.7	9.7	10.9	12.1	12.1	13.3	13.3	14.5	14.5	14.5
92.5°	9.7	10.9	10.9	10.9	12.1	12.1	12.1	13.3	13.3	13.3
95°	82.2	59.3	33.9	26.6	23.0	23.0	21.8	23.0	21.8	21.8
97.5°	249.2	269.7	279.4	292.7	300.0	298.8	293.9	298.8	295.1	298.8
100°	354.4	373.8	388.3	391.9	399.2	402.8	416.1	425.8	430.6	436.6
102.5°	440.3	463.3	480.2	489.9	497.1	502.0	517.7	532.2	539.5	544.3
105°	518.9	543.1	563.6	573.3	581.8	586.6	603.6	620.5	631.4	637.4
107.5°	581.8	609.6	631.4	645.9	654.4	662.8	683.4	700.3	713.6	719.7
110°	638.6	666.5	689.4	706.4	716.1	724.5	747.5	766.9	781.4	788.6



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CATALOG NUMBER: I3-CL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	685.8	716.1	739.0	757.2	766.9	778.9	800.7	822.5	837.0	845.5
115°	724.5	756.0	780.2	799.5	810.4	821.3	846.7	868.5	883.0	889.0
117.5°	757.2	788.6	814.0	833.4	845.5	857.6	883.0	902.3	918.0	922.9
120°	783.8	815.2	840.6	862.4	874.5	885.4	909.6	930.1	944.7	948.3
122.5°	801.9	834.6	861.2	885.4	896.3	907.2	930.1	950.7	964.0	967.6
125°	815.2	849.1	875.7	901.1	912.0	922.9	944.7	965.2	976.1	980.9
127.5°	823.7	857.6	886.6	910.8	922.9	932.6	954.3	972.5	983.4	987.0
130°	826.1	861.2	890.2	915.6	926.5	936.2	956.8	974.9	984.6	987.0
132.5°	826.1	860.0	890.2	914.4	925.3	935.0	954.3	971.3	980.9	983.4
135°	821.3	853.9	884.2	908.4	919.3	928.9	948.3	962.8	972.5	973.7
137.5°	812.8	844.3	873.3	897.5	908.4	918.0	935.0	950.7	959.2	961.6
140°	801.9	831.0	860.0	883.0	893.9	902.3	919.3	932.6	941.0	943.4
142.5°	787.4	816.4	843.1	866.0	874.5	884.2	898.7	912.0	919.3	921.7
145°	771.7	799.5	823.7	844.3	853.9	862.4	875.7	887.8	895.1	897.5
147.5°	751.1	778.9	801.9	821.3	829.7	838.2	850.3	861.2	868.5	870.9
150°	725.7	751.1	775.3	793.5	801.9	810.4	822.5	832.2	839.4	840.6
152.5°	700.3	724.5	745.1	763.2	771.7	780.2	791.0	800.7	809.2	809.2
155°	676.1	696.7	716.1	731.8	739.0	746.3	757.2	765.6	772.9	772.9
157.5°	650.7	670.1	685.8	700.3	706.4	712.4	722.1	729.4	735.4	734.2
160°	626.5	641.1	655.6	667.7	673.7	678.6	685.8	691.9	697.9	696.7
162.5°	599.9	613.2	625.3	633.8	638.6	642.3	649.5	655.6	659.2	659.2
165°	569.7	581.8	592.7	601.1	606.0	608.4	614.4	618.1	621.7	621.7
167.5°	538.2	547.9	557.6	564.9	569.7	572.1	578.2	580.6	585.4	584.2
170°	506.8	514.1	521.3	527.4	529.8	532.2	537.0	539.5	541.9	541.9
172.5°	481.4	483.8	487.4	492.3	492.3	493.5	495.9	497.1	498.3	498.3
175°	466.9	468.1	468.1	468.1	468.1	468.1	469.3	468.1	469.3	468.1
177.5°	460.8	460.8	459.6	459.6	458.4	459.6	458.4	457.2	457.2	456.0
180°	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4

(END OF REPORT)