

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: P395065

Luminaire Tested: **I3-UL-50L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395065
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-50L940-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
5000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

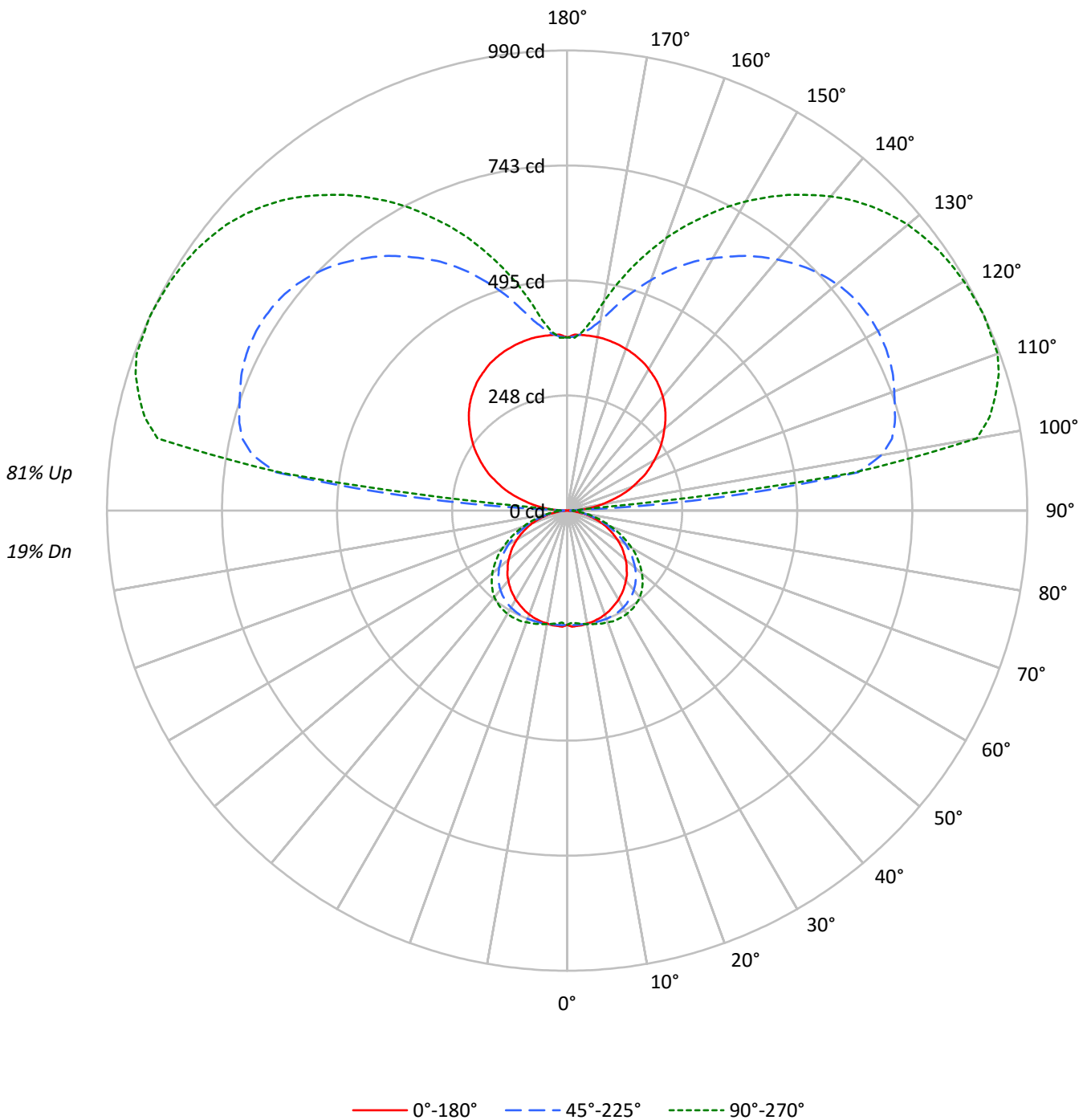
Lumens per Lamp: N/A
Luminaire Lumens: 4509.6 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
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



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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°	1350	1350	1350
5°	1368	1330	1305
10°	1367	1322	1307
15°	1369	1317	1318
20°	1370	1322	1333
25°	1368	1326	1353
30°	1370	1327	1366
35°	1369	1320	1373
40°	1363	1311	1365
45°	1351	1283	1335
50°	1339	1242	1286
55°	1315	1182	1213
60°	1275	1096	1115
65°	1219	976	994
70°	1151	846	839
75°	999	664	674
80°	793	477	486
85°	471	276	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	0.5
10°-20°	70.1	1.6
20°-30°	112.7	2.5
30°-40°	145.1	3.2
40°-50°	159.4	3.5
50°-60°	149.8	3.3
60°-70°	116.4	2.6
70°-80°	66.7	1.5
80°-90°	21.4	0.5
90°-100°	288.3	6.4
100°-110°	685.0	15.2
110°-120°	688.2	15.3
120°-130°	631.1	14.0
130°-140°	527.7	11.7
140°-150°	396.1	8.8
150°-160°	257.8	5.7
160°-170°	132.8	2.9
170°-180°	37.6	0.8
0°-30°	206.3	4.6
0°-40°	351.4	7.8
0°-60°	660.5	14.6
0°-90°	865.0	19.2
90°-120°	1661.5	36.8
90°-150°	3216.3	71.3
90°-180°	3645.0	80.8
0°-180°	4509.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	246	246	246	246	246	
5°	249	247	247	246	243	24
15°	243	242	248	251	252	69
25°	230	232	246	254	258	106
35°	210	216	233	248	252	131
45°	181	190	209	224	229	140
55°	146	153	170	182	187	130
65°	102	108	118	128	131	101
75°	54	57	62	69	71	58
85°	11	13	18	23	24	13
90°	1	3	7	10	11	3
95°	39	322	331	44	38	39
105°	112	432	730	900	954	119
115°	186	487	766	931	990	182
125°	247	508	770	922	976	220
135°	299	506	736	875	926	230
145°	338	485	669	786	829	211
155°	362	445	581	666	698	167
165°	376	401	471	522	542	106
175°	379	378	382	387	387	36
180°	372	372	372	372	372	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	250.1	248.9	247.9	247.9	246.7	246.7	246.7	245.7	245.7	245.7	246.7
5°	248.9	248.9	247.9	246.7	246.7	246.7	245.7	245.7	245.7	245.7	246.7
7.5°	248.9	247.9	246.7	246.7	245.7	245.7	245.7	245.7	245.7	245.7	246.7
10°	246.7	246.7	245.7	245.7	244.5	245.7	245.7	245.7	245.7	245.7	247.9
12.5°	245.7	245.7	244.5	243.4	243.4	243.4	244.5	244.5	244.5	245.7	247.9
15°	243.4	243.4	242.3	242.3	242.3	242.3	243.4	243.4	244.5	245.7	247.9
17.5°	241.1	241.1	240.1	240.1	240.1	241.1	241.1	242.3	243.4	245.7	247.9
20°	237.8	237.8	237.8	237.8	237.8	238.9	238.9	240.1	242.3	244.5	247.9
22.5°	234.5	234.5	234.5	234.5	234.5	235.6	236.7	238.9	240.1	243.4	246.7
25°	230.0	230.0	230.0	230.0	231.2	232.3	233.4	235.6	237.8	241.1	245.7
27.5°	225.6	226.8	226.8	226.8	227.8	229.0	230.0	232.3	235.6	240.1	243.4
30°	221.2	221.2	221.2	222.3	223.4	224.5	226.8	229.0	232.3	236.7	241.1
32.5°	215.6	215.6	216.7	216.7	219.0	220.0	222.3	225.6	229.0	233.4	237.8
35°	210.1	210.1	210.1	212.3	213.4	215.6	216.7	220.0	224.5	229.0	233.4
37.5°	203.4	204.5	204.5	205.6	207.9	210.1	211.1	215.6	220.0	224.5	229.0
40°	196.7	197.8	197.8	198.9	202.3	203.4	205.6	210.1	213.4	219.0	223.4
42.5°	190.0	190.0	191.2	192.2	195.6	196.7	198.9	203.4	207.9	212.3	216.7
45°	181.2	182.3	183.4	184.5	187.8	190.0	192.2	195.6	200.1	204.5	208.9
47.5°	173.3	173.3	174.5	176.7	180.0	182.3	183.4	187.8	191.2	195.6	200.1
50°	164.5	165.6	165.6	167.9	171.1	173.3	174.5	178.9	182.3	186.8	191.2
52.5°	154.5	155.6	156.7	158.9	162.3	164.5	165.6	168.9	172.3	176.7	180.0
55°	145.6	146.7	146.7	149.0	152.2	153.4	155.6	157.8	162.3	165.6	170.1
57.5°	135.6	136.7	136.7	138.9	141.1	143.4	144.5	147.8	151.2	154.5	157.8
60°	124.5	125.6	126.7	127.8	130.1	132.3	133.3	135.6	138.9	142.3	145.6
62.5°	113.4	114.4	115.6	116.7	118.9	120.0	121.1	124.5	126.7	130.1	132.3
65°	102.3	103.4	104.5	105.6	106.7	107.8	108.9	111.2	113.4	116.7	117.8
67.5°	91.1	92.3	92.3	93.3	94.5	95.5	96.7	98.9	100.0	103.4	104.5
70°	80.0	80.0	80.0	81.1	81.1	82.2	83.4	85.6	86.7	88.9	91.1
72.5°	66.7	67.8	67.8	67.8	68.9	70.0	71.2	72.2	73.4	74.4	76.6
75°	54.5	55.5	54.5	55.5	56.7	56.7	57.7	58.9	60.0	61.1	62.3
77.5°	43.4	42.2	43.4	43.4	44.4	44.4	44.4	45.6	47.8	47.8	50.0
80°	31.1	31.1	31.1	31.1	32.2	32.2	33.4	33.4	35.6	36.6	37.8
82.5°	20.0	20.0	21.1	21.1	21.1	22.3	22.3	23.3	24.5	25.5	26.7
85°	11.1	11.1	11.1	12.2	12.2	13.3	13.3	14.5	15.5	16.7	17.7
87.5°	3.4	4.4	5.6	5.6	6.7	6.7	7.8	7.8	10.0	11.1	12.2
90°	1.1	1.1	2.2	2.2	2.2	3.4	3.4	4.4	4.4	5.6	6.7
92.5°	18.9	44.4	92.3	137.8	118.9	111.2	66.7	20.0	17.7	18.9	18.9
95°	38.9	73.4	134.5	217.8	282.3	322.3	349.0	400.1	452.4	443.4	331.2
97.5°	56.7	94.5	162.3	238.9	327.9	373.4	407.9	469.0	535.7	591.3	631.3
100°	74.4	113.4	185.6	265.6	347.9	389.0	429.0	512.3	577.9	633.5	686.8
102.5°	93.3	132.3	206.7	290.1	371.2	411.2	450.1	523.4	596.8	663.5	715.8
105°	112.2	152.2	225.6	311.2	392.3	432.3	470.1	540.1	607.9	670.2	730.2
107.5°	132.3	170.1	242.3	327.9	409.0	449.0	486.8	556.8	622.3	684.6	739.1
110°	150.0	186.8	259.0	343.4	424.5	464.5	502.3	572.4	636.8	695.7	749.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	166.7	202.3	274.5	356.7	436.7	476.8	513.5	583.5	647.9	705.7	759.0
115°	185.6	216.7	290.1	369.0	447.9	486.8	523.4	592.4	656.9	713.5	765.7
117.5°	201.1	231.2	303.4	379.0	456.8	494.6	530.2	599.0	662.3	719.0	770.2
120°	216.7	244.5	315.7	387.9	463.5	500.1	535.7	603.4	666.8	722.4	772.4
122.5°	232.3	257.8	325.7	396.7	469.0	505.7	540.1	606.8	669.0	723.5	772.4
125°	246.7	269.0	334.5	403.4	472.3	507.9	541.3	606.8	667.9	721.3	770.2
127.5°	260.0	281.1	341.2	410.1	474.5	509.0	541.3	604.6	665.7	718.0	765.7
130°	273.4	292.3	347.9	413.4	476.8	507.9	539.0	600.2	660.1	712.4	758.0
132.5°	286.7	304.5	353.4	416.8	477.9	507.9	536.8	595.7	653.5	704.6	748.0
135°	299.0	313.4	358.9	419.0	476.8	505.7	532.4	587.9	643.4	693.5	735.7
137.5°	310.1	322.3	363.4	420.1	475.7	502.3	529.0	579.0	631.3	680.2	721.3
140°	320.1	331.2	365.7	420.1	471.3	497.9	522.4	570.2	617.9	664.6	704.6
142.5°	329.0	339.0	369.0	417.8	466.8	492.4	515.7	561.2	604.6	649.0	687.9
145°	337.8	345.6	371.2	416.8	461.2	484.6	506.8	550.1	592.4	632.4	669.0
147.5°	344.5	352.3	373.4	412.4	454.6	475.7	496.8	537.9	576.8	614.6	647.9
150°	351.2	357.9	374.6	407.9	446.8	465.7	484.6	523.4	561.2	595.7	626.8
152.5°	357.9	362.3	377.8	403.4	437.9	455.6	474.5	509.0	543.5	575.7	605.7
155°	362.3	365.7	379.0	398.9	429.0	444.6	460.1	492.4	523.4	553.5	581.3
157.5°	366.7	370.1	380.1	395.7	419.0	433.5	446.8	474.5	503.5	530.2	555.7
160°	370.1	372.3	380.1	393.5	410.1	420.1	432.3	457.9	482.3	505.7	527.9
162.5°	373.4	374.6	380.1	390.1	402.3	409.0	417.8	437.9	460.1	480.1	500.1
165°	375.6	376.8	380.1	387.9	395.7	401.2	405.7	420.1	436.7	454.6	471.3
167.5°	377.8	377.8	380.1	385.6	390.1	393.5	396.7	404.5	415.6	429.0	441.2
170°	379.0	379.0	380.1	383.4	386.8	387.9	390.1	394.5	400.1	406.8	414.6
172.5°	379.0	379.0	379.0	381.2	382.3	382.3	382.3	384.5	387.9	392.3	395.7
175°	379.0	377.8	377.8	379.0	377.8	377.8	377.8	377.8	379.0	381.2	382.3
177.5°	379.0	377.8	376.8	376.8	375.6	375.6	374.6	374.6	374.6	374.6	374.6
180°	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	246.7	246.7	245.7	244.5	244.5	244.5	243.4	242.3	241.1	241.1
5°	246.7	246.7	245.7	245.7	245.7	245.7	244.5	244.5	243.4	243.4
7.5°	247.9	246.7	246.7	246.7	246.7	246.7	246.7	246.7	245.7	245.7
10°	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9
12.5°	248.9	248.9	248.9	248.9	250.1	250.1	250.1	250.1	250.1	250.1
15°	248.9	250.1	251.2	251.2	251.2	252.3	252.3	252.3	252.3	252.3
17.5°	250.1	251.2	252.3	252.3	253.4	253.4	254.5	254.5	254.5	254.5
20°	250.1	251.2	252.3	253.4	254.5	254.5	255.6	256.7	256.7	255.6
22.5°	248.9	251.2	252.3	253.4	254.5	255.6	256.7	257.8	257.8	257.8
25°	247.9	250.1	252.3	254.5	254.5	255.6	257.8	257.8	257.8	257.8
27.5°	246.7	248.9	251.2	253.4	254.5	255.6	256.7	257.8	257.8	257.8
30°	244.5	247.9	250.1	252.3	253.4	254.5	255.6	256.7	256.7	256.7
32.5°	241.1	244.5	246.7	250.1	251.2	252.3	253.4	254.5	254.5	254.5
35°	237.8	241.1	243.4	246.7	247.9	248.9	251.2	251.2	252.3	252.3
37.5°	232.3	236.7	238.9	242.3	243.4	244.5	246.7	247.9	247.9	247.9
40°	226.8	231.2	233.4	236.7	237.8	238.9	241.1	242.3	243.4	243.4
42.5°	220.0	224.5	226.8	230.0	231.2	232.3	234.5	235.6	236.7	236.7
45°	213.4	216.7	219.0	222.3	224.5	224.5	226.8	227.8	229.0	229.0
47.5°	204.5	207.9	210.1	213.4	215.6	216.7	217.8	219.0	220.0	220.0
50°	194.5	197.8	201.1	203.4	205.6	205.6	207.9	208.9	210.1	210.1
52.5°	184.5	186.8	190.0	193.4	194.5	195.6	196.7	197.8	198.9	198.9
55°	173.3	175.6	178.9	181.2	182.3	183.4	184.5	185.6	186.8	186.8
57.5°	161.1	163.4	166.7	168.9	170.1	171.1	172.3	173.3	174.5	174.5
60°	147.8	150.0	153.4	155.6	156.7	156.7	158.9	160.0	160.0	160.0
62.5°	134.5	136.7	138.9	141.1	142.3	143.4	144.5	145.6	145.6	145.6
65°	121.1	123.4	125.6	126.7	127.8	127.8	128.9	130.1	131.1	131.1
67.5°	106.7	108.9	111.2	112.2	113.4	113.4	114.4	115.6	115.6	115.6
70°	92.3	93.3	95.5	96.7	97.8	97.8	100.0	100.0	100.0	100.0
72.5°	77.8	78.9	81.1	82.2	83.4	83.4	84.5	85.6	85.6	85.6
75°	64.5	65.6	66.7	68.9	68.9	68.9	70.0	71.2	71.2	71.2
77.5°	51.1	52.3	53.3	54.5	55.5	55.5	56.7	57.7	57.7	57.7
80°	38.9	40.0	41.1	42.2	42.2	43.4	43.4	44.4	44.4	44.4
82.5°	27.8	28.9	30.0	31.1	32.2	32.2	33.4	34.4	34.4	33.4
85°	18.9	21.1	22.3	23.3	23.3	23.3	24.5	25.5	25.5	24.5
87.5°	13.3	13.3	14.5	15.5	15.5	16.7	16.7	17.7	17.7	17.7
90°	7.8	7.8	8.9	8.9	10.0	10.0	10.0	11.1	11.1	11.1
92.5°	18.9	18.9	20.0	20.0	20.0	20.0	21.1	21.1	21.1	21.1
95°	202.3	91.1	76.6	46.7	44.4	38.9	37.8	38.9	38.9	37.8
97.5°	679.0	726.8	756.8	771.3	753.6	734.7	713.5	710.2	681.2	616.8
100°	732.4	770.2	806.9	832.4	842.4	851.3	871.3	883.5	889.1	894.7
102.5°	759.0	799.1	831.3	863.6	876.9	889.1	906.8	921.3	926.9	931.3
105°	782.4	823.5	859.1	887.9	900.2	911.3	929.1	942.4	952.4	953.6
107.5°	788.0	831.3	871.3	906.8	921.3	933.6	954.7	964.7	973.6	973.6
110°	798.0	839.1	875.8	908.0	922.5	936.9	959.1	974.7	983.6	985.8



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CATALOG NUMBER: I3-UL-50L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	805.7	847.9	882.5	914.7	926.9	940.2	961.3	975.8	983.6	986.9
115°	812.4	853.5	887.9	918.0	931.3	944.6	965.8	978.0	986.9	990.2
117.5°	816.9	856.9	891.3	919.1	933.6	944.6	964.7	978.0	986.9	988.0
120°	818.0	858.0	891.3	919.1	931.3	943.6	963.5	976.9	985.8	985.8
122.5°	818.0	856.9	890.2	916.9	928.0	939.1	958.0	973.6	981.4	981.4
125°	813.5	852.4	884.7	911.3	922.5	932.4	952.4	966.9	974.7	975.8
127.5°	806.9	844.7	876.9	903.6	914.7	923.5	944.6	958.0	965.8	966.9
130°	798.0	835.8	866.8	892.4	903.6	913.6	931.3	945.8	954.7	956.9
132.5°	788.0	823.5	854.7	879.1	890.2	899.1	916.9	931.3	939.1	942.4
135°	775.7	809.1	839.1	863.6	874.6	883.5	900.2	914.7	922.5	925.7
137.5°	760.2	792.4	821.3	845.7	855.7	864.6	881.3	894.7	901.4	905.8
140°	742.4	772.4	802.4	824.6	834.6	843.5	858.0	872.4	879.1	882.5
142.5°	723.5	753.6	780.2	802.4	811.3	820.2	834.6	847.9	854.7	855.7
145°	703.5	732.4	756.8	777.9	785.8	794.6	807.9	821.3	828.0	829.0
147.5°	681.2	707.9	731.3	751.3	760.2	766.9	779.1	791.3	798.0	799.1
150°	655.7	680.2	701.3	721.3	729.1	735.7	749.0	760.2	766.9	767.9
152.5°	631.3	654.6	672.4	690.2	697.9	704.6	715.8	726.8	733.5	734.7
155°	605.7	626.8	644.6	659.1	665.7	672.4	681.2	691.3	696.9	697.9
157.5°	579.0	599.0	614.6	627.9	634.6	640.2	647.9	656.9	660.1	662.3
160°	550.1	566.8	580.1	593.5	599.0	604.6	612.4	619.1	623.5	624.6
162.5°	519.0	533.4	544.5	556.8	560.2	564.6	572.4	579.0	582.3	583.5
165°	486.8	500.1	510.1	520.1	522.4	525.6	531.2	537.9	540.1	542.3
167.5°	454.6	465.7	472.3	481.2	484.6	486.8	492.4	496.8	499.0	500.1
170°	423.4	431.2	436.7	443.4	444.6	447.9	451.2	455.6	456.8	456.8
172.5°	398.9	402.3	405.7	407.9	409.0	410.1	412.4	413.4	413.4	413.4
175°	383.4	385.6	385.6	386.8	386.8	386.8	386.8	386.8	386.8	386.8
177.5°	374.6	374.6	374.6	373.4	373.4	373.4	373.4	372.3	372.3	372.3
180°	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3

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