

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: P395062

Luminaire Tested: **I3-UL-40L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395062
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-UL-40L940-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
4000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

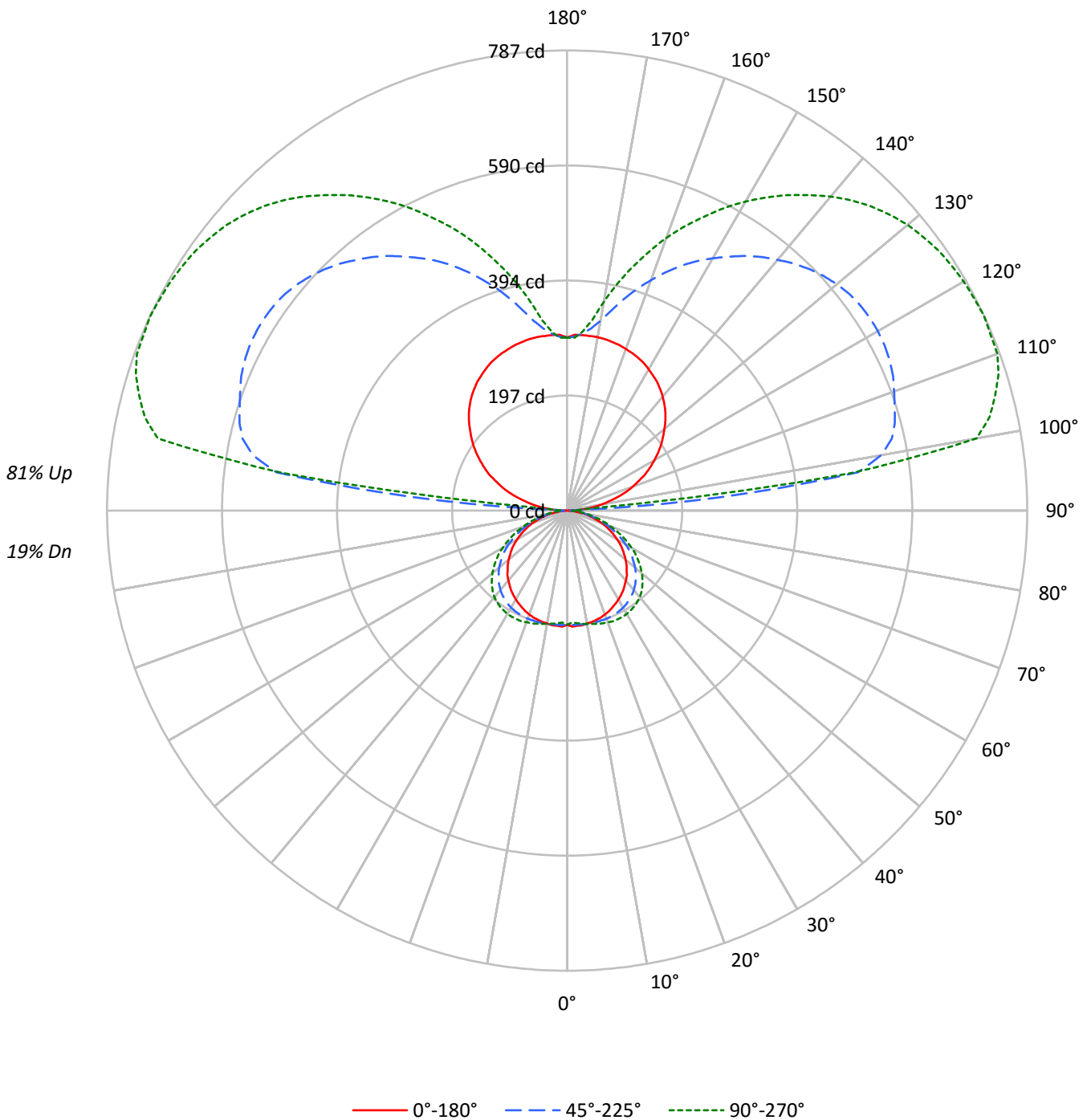
Lumens per Lamp: N/A
Luminaire Lumens: 3582.9 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (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°	1072	1072	1072
5°	1087	1057	1037
10°	1086	1050	1038
15°	1088	1046	1047
20°	1089	1050	1059
25°	1087	1053	1075
30°	1088	1054	1086
35°	1087	1049	1090
40°	1083	1041	1084
45°	1073	1019	1060
50°	1064	986	1021
55°	1045	938	963
60°	1013	871	886
65°	968	775	790
70°	915	672	667
75°	794	527	535
80°	630	379	387
85°	373	220	254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	0.5
10°-20°	55.7	1.6
20°-30°	89.6	2.5
30°-40°	115.3	3.2
40°-50°	126.6	3.5
50°-60°	119.0	3.3
60°-70°	92.4	2.6
70°-80°	53.0	1.5
80°-90°	17.0	0.5
90°-100°	229.0	6.4
100°-110°	544.3	15.2
110°-120°	546.8	15.3
120°-130°	501.4	14.0
130°-140°	419.3	11.7
140°-150°	314.7	8.8
150°-160°	204.9	5.7
160°-170°	105.5	2.9
170°-180°	29.9	0.8
0°-30°	163.9	4.6
0°-40°	279.2	7.8
0°-60°	524.8	14.6
0°-90°	687.3	19.2
90°-120°	1320.1	36.8
90°-150°	2555.4	71.3
90°-180°	2896.0	80.8
0°-180°	3582.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	195	195	195	195	195	
5°	198	196	196	195	193	19
15°	193	192	197	200	200	55
25°	183	184	195	202	205	84
35°	167	171	185	197	200	104
45°	144	151	166	178	182	111
55°	116	122	135	145	148	103
65°	81	86	94	102	104	80
75°	43	45	49	55	56	46
85°	9	11	14	18	19	10
90°	1	3	5	8	9	3
95°	31	256	263	35	30	31
105°	89	344	580	715	758	94
115°	148	387	608	740	787	145
125°	196	404	612	733	775	175
135°	238	402	584	695	736	183
145°	268	385	532	624	659	168
155°	288	353	462	529	554	133
165°	298	319	374	415	431	84
175°	301	300	304	307	307	29
180°	296	296	296	296	296	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	195.1	195.1	195.1	195.1	195.1	195.1	195.1	195.1	195.1	195.1	195.1
2.5°	198.7	197.8	196.9	196.9	196.0	196.0	196.0	195.1	195.1	195.1	196.0
5°	197.8	197.8	196.9	196.0	196.0	196.0	195.1	195.1	195.1	195.1	196.0
7.5°	197.8	196.9	196.0	196.0	195.1	195.1	195.1	195.1	195.1	195.1	196.0
10°	196.0	196.0	195.1	195.1	194.3	195.1	195.1	195.1	195.1	195.1	196.9
12.5°	195.1	195.1	194.3	193.4	193.4	193.4	194.3	194.3	194.3	195.1	196.9
15°	193.4	193.4	192.5	192.5	192.5	192.5	193.4	193.4	194.3	195.1	196.9
17.5°	191.6	191.6	190.7	190.7	190.7	191.6	191.6	192.5	193.4	195.1	196.9
20°	189.0	189.0	189.0	189.0	189.0	189.8	189.8	190.7	192.5	194.3	196.9
22.5°	186.3	186.3	186.3	186.3	186.3	187.2	188.1	189.8	190.7	193.4	196.0
25°	182.8	182.8	182.8	182.8	183.7	184.5	185.4	187.2	189.0	191.6	195.1
27.5°	179.2	180.1	180.1	180.1	181.0	181.9	182.8	184.5	187.2	190.7	193.4
30°	175.7	175.7	175.7	176.6	177.5	178.4	180.1	181.9	184.5	188.1	191.6
32.5°	171.3	171.3	172.2	172.2	174.0	174.8	176.6	179.2	181.9	185.4	189.0
35°	166.9	166.9	166.9	168.7	169.5	171.3	172.2	174.8	178.4	181.9	185.4
37.5°	161.6	162.5	162.5	163.4	165.1	166.9	167.8	171.3	174.8	178.4	181.9
40°	156.3	157.2	157.2	158.1	160.7	161.6	163.4	166.9	169.5	174.0	177.5
42.5°	151.0	151.0	151.9	152.8	155.4	156.3	158.1	161.6	165.1	168.7	172.2
45°	143.9	144.8	145.7	146.6	149.2	151.0	152.8	155.4	158.9	162.5	166.0
47.5°	137.7	137.7	138.6	140.4	143.0	144.8	145.7	149.2	151.9	155.4	158.9
50°	130.7	131.6	131.6	133.3	136.0	137.7	138.6	142.2	144.8	148.3	151.9
52.5°	122.7	123.6	124.5	126.3	128.9	130.7	131.6	134.2	136.9	140.4	143.0
55°	115.7	116.6	116.6	118.3	121.0	121.9	123.6	125.4	128.9	131.6	135.1
57.5°	107.7	108.6	108.6	110.4	112.1	113.9	114.8	117.4	120.1	122.7	125.4
60°	98.9	99.8	100.7	101.5	103.3	105.1	106.0	107.7	110.4	113.0	115.7
62.5°	90.1	90.9	91.8	92.7	94.5	95.4	96.2	98.9	100.7	103.3	105.1
65°	81.2	82.1	83.0	83.9	84.8	85.7	86.5	88.3	90.1	92.7	93.6
67.5°	72.4	73.3	73.3	74.2	75.1	75.9	76.8	78.6	79.5	82.1	83.0
70°	63.6	63.6	63.6	64.5	64.5	65.3	66.2	68.0	68.9	70.6	72.4
72.5°	53.0	53.9	53.9	53.9	54.7	55.6	56.5	57.4	58.3	59.2	60.9
75°	43.3	44.2	43.3	44.2	45.0	45.0	45.9	46.8	47.7	48.6	49.4
77.5°	34.4	33.6	34.4	34.4	35.3	35.3	35.3	36.2	38.0	38.0	39.7
80°	24.7	24.7	24.7	24.7	25.6	25.6	26.5	26.5	28.3	29.1	30.0
82.5°	15.9	15.9	16.8	16.8	16.8	17.7	17.7	18.5	19.4	20.3	21.2
85°	8.8	8.8	8.8	9.7	9.7	10.6	10.6	11.5	12.4	13.2	14.1
87.5°	2.6	3.5	4.4	4.4	5.3	5.3	6.2	6.2	7.9	8.8	9.7
90°	0.9	0.9	1.8	1.8	1.8	2.6	2.6	3.5	3.5	4.4	5.3
92.5°	15.0	35.3	73.3	109.5	94.5	88.3	53.0	15.9	14.1	15.0	15.0
95°	30.9	58.3	106.8	173.1	224.3	256.1	277.3	317.9	359.4	352.3	263.1
97.5°	45.0	75.1	128.9	189.8	260.5	296.7	324.1	372.6	425.6	469.8	501.5
100°	59.2	90.1	147.5	211.0	276.4	309.0	340.8	407.1	459.2	503.3	545.7
102.5°	74.2	105.1	164.2	230.5	294.9	326.7	357.6	415.9	474.2	527.2	568.7
105°	89.2	121.0	179.2	247.2	311.7	343.5	373.5	429.1	483.0	532.4	580.1
107.5°	105.1	135.1	192.5	260.5	324.9	356.7	386.8	442.4	494.5	543.9	587.2
110°	119.2	148.3	205.7	272.8	337.3	369.1	399.1	454.7	506.0	552.8	595.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	132.4	160.7	218.1	283.4	347.0	378.8	407.9	463.6	514.8	560.7	603.1
115°	147.5	172.2	230.5	293.2	355.8	386.8	415.9	470.6	521.9	566.9	608.4
117.5°	159.8	183.7	241.1	301.1	362.9	392.9	421.2	475.9	526.3	571.3	611.9
120°	172.2	194.3	250.8	308.2	368.2	397.4	425.6	479.5	529.8	574.0	613.7
122.5°	184.5	204.9	258.7	315.2	372.6	401.8	429.1	482.1	531.6	574.8	613.7
125°	196.0	213.7	265.8	320.5	375.3	403.5	430.0	482.1	530.7	573.1	611.9
127.5°	206.6	223.4	271.1	325.8	377.0	404.4	430.0	480.4	528.9	570.4	608.4
130°	217.2	232.2	276.4	328.5	378.8	403.5	428.3	476.8	524.5	566.0	602.2
132.5°	227.8	241.9	280.8	331.1	379.7	403.5	426.5	473.3	519.2	559.8	594.3
135°	237.5	249.0	285.2	332.9	378.8	401.8	423.0	467.1	511.3	551.0	584.5
137.5°	246.4	256.1	288.7	333.8	377.9	399.1	420.3	460.0	501.5	540.4	573.1
140°	254.3	263.1	290.5	333.8	374.4	395.6	415.0	453.0	490.9	528.0	559.8
142.5°	261.4	269.3	293.2	332.0	370.9	391.2	409.7	445.9	480.4	515.7	546.6
145°	268.4	274.6	294.9	331.1	366.4	385.0	402.6	437.1	470.6	502.4	531.6
147.5°	273.7	279.9	296.7	327.6	361.1	377.9	394.7	427.4	458.3	488.3	514.8
150°	279.0	284.3	297.6	324.1	355.0	370.0	385.0	415.9	445.9	473.3	498.0
152.5°	284.3	287.9	300.2	320.5	347.9	362.0	377.0	404.4	431.8	457.4	481.2
155°	287.9	290.5	301.1	317.0	340.8	353.2	365.6	391.2	415.9	439.7	461.8
157.5°	291.4	294.0	302.0	314.3	332.9	344.4	355.0	377.0	400.0	421.2	441.5
160°	294.0	295.8	302.0	312.6	325.8	333.8	343.5	363.8	383.2	401.8	419.4
162.5°	296.7	297.6	302.0	309.9	319.6	324.9	332.0	347.9	365.6	381.5	397.4
165°	298.5	299.3	302.0	308.2	314.3	318.8	322.3	333.8	347.0	361.1	374.4
167.5°	300.2	300.2	302.0	306.4	309.9	312.6	315.2	321.4	330.2	340.8	350.6
170°	301.1	301.1	302.0	304.6	307.3	308.2	309.9	313.5	317.9	323.2	329.4
172.5°	301.1	301.1	301.1	302.9	303.8	303.8	303.8	305.5	308.2	311.7	314.3
175°	301.1	300.2	300.2	301.1	300.2	300.2	300.2	300.2	301.1	302.9	303.8
177.5°	301.1	300.2	299.3	299.3	298.5	298.5	297.6	297.6	297.6	297.6	297.6
180°	295.8	295.8	295.8	295.8	295.8	295.8	295.8	295.8	295.8	295.8	295.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	195.1	195.1	195.1	195.1	195.1	195.1	195.1	195.1	195.1	195.1
2.5°	196.0	196.0	195.1	194.3	194.3	194.3	193.4	192.5	191.6	191.6
5°	196.0	196.0	195.1	195.1	195.1	195.1	194.3	194.3	193.4	193.4
7.5°	196.9	196.0	196.0	196.0	196.0	196.0	196.0	196.0	195.1	195.1
10°	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9
12.5°	197.8	197.8	197.8	197.8	198.7	198.7	198.7	198.7	198.7	198.7
15°	197.8	198.7	199.6	199.6	199.6	200.4	200.4	200.4	200.4	200.4
17.5°	198.7	199.6	200.4	200.4	201.3	201.3	202.2	202.2	202.2	202.2
20°	198.7	199.6	200.4	201.3	202.2	202.2	203.1	204.0	204.0	203.1
22.5°	197.8	199.6	200.4	201.3	202.2	203.1	204.0	204.9	204.9	204.9
25°	196.9	198.7	200.4	202.2	202.2	203.1	204.9	204.9	204.9	204.9
27.5°	196.0	197.8	199.6	201.3	202.2	203.1	204.0	204.9	204.9	204.9
30°	194.3	196.9	198.7	200.4	201.3	202.2	203.1	204.0	204.0	204.0
32.5°	191.6	194.3	196.0	198.7	199.6	200.4	201.3	202.2	202.2	202.2
35°	189.0	191.6	193.4	196.0	196.9	197.8	199.6	199.6	200.4	200.4
37.5°	184.5	188.1	189.8	192.5	193.4	194.3	196.0	196.9	196.9	196.9
40°	180.1	183.7	185.4	188.1	189.0	189.8	191.6	192.5	193.4	193.4
42.5°	174.8	178.4	180.1	182.8	183.7	184.5	186.3	187.2	188.1	188.1
45°	169.5	172.2	174.0	176.6	178.4	178.4	180.1	181.0	181.9	181.9
47.5°	162.5	165.1	166.9	169.5	171.3	172.2	173.1	174.0	174.8	174.8
50°	154.5	157.2	159.8	161.6	163.4	163.4	165.1	166.0	166.9	166.9
52.5°	146.6	148.3	151.0	153.6	154.5	155.4	156.3	157.2	158.1	158.1
55°	137.7	139.5	142.2	143.9	144.8	145.7	146.6	147.5	148.3	148.3
57.5°	128.0	129.8	132.4	134.2	135.1	136.0	136.9	137.7	138.6	138.6
60°	117.4	119.2	121.9	123.6	124.5	124.5	126.3	127.2	127.2	127.2
62.5°	106.8	108.6	110.4	112.1	113.0	113.9	114.8	115.7	115.7	115.7
65°	96.2	98.0	99.8	100.7	101.5	101.5	102.4	103.3	104.2	104.2
67.5°	84.8	86.5	88.3	89.2	90.1	90.1	90.9	91.8	91.8	91.8
70°	73.3	74.2	75.9	76.8	77.7	77.7	79.5	79.5	79.5	79.5
72.5°	61.8	62.7	64.5	65.3	66.2	66.2	67.1	68.0	68.0	68.0
75°	51.2	52.1	53.0	54.7	54.7	54.7	55.6	56.5	56.5	56.5
77.5°	40.6	41.5	42.4	43.3	44.2	44.2	45.0	45.9	45.9	45.9
80°	30.9	31.8	32.7	33.6	33.6	34.4	34.4	35.3	35.3	35.3
82.5°	22.1	23.0	23.8	24.7	25.6	25.6	26.5	27.4	27.4	26.5
85°	15.0	16.8	17.7	18.5	18.5	18.5	19.4	20.3	20.3	19.4
87.5°	10.6	10.6	11.5	12.4	12.4	13.2	13.2	14.1	14.1	14.1
90°	6.2	6.2	7.1	7.1	7.9	7.9	7.9	8.8	8.8	8.8
92.5°	15.0	15.0	15.9	15.9	15.9	15.9	16.8	16.8	16.8	16.8
95°	160.7	72.4	60.9	37.1	35.3	30.9	30.0	30.9	30.9	30.0
97.5°	539.5	577.5	601.3	612.8	598.7	583.7	566.9	564.2	541.3	490.1
100°	581.9	611.9	641.1	661.4	669.3	676.4	692.3	702.0	706.4	710.8
102.5°	603.1	634.9	660.5	686.1	696.7	706.4	720.5	732.0	736.4	740.0
105°	621.6	654.3	682.6	705.5	715.2	724.1	738.2	748.8	756.7	757.6
107.5°	626.0	660.5	692.3	720.5	732.0	741.7	758.5	766.4	773.5	773.5
110°	634.0	666.7	695.8	721.4	732.9	744.4	762.0	774.4	781.5	783.2



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CATALOG NUMBER: I3-UL-40L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	640.2	673.7	701.1	726.7	736.4	747.0	763.8	775.3	781.5	784.1
115°	645.5	678.1	705.5	729.4	740.0	750.6	767.3	777.0	784.1	786.8
117.5°	649.0	680.8	708.2	730.2	741.7	750.6	766.4	777.0	784.1	785.0
120°	649.9	681.7	708.2	730.2	740.0	749.7	765.6	776.2	783.2	783.2
122.5°	649.9	680.8	707.3	728.5	737.3	746.1	761.1	773.5	779.7	779.7
125°	646.4	677.3	702.9	724.1	732.9	740.8	756.7	768.2	774.4	775.3
127.5°	641.1	671.1	696.7	717.9	726.7	733.8	750.6	761.1	767.3	768.2
130°	634.0	664.0	688.7	709.0	717.9	725.8	740.0	751.4	758.5	760.3
132.5°	626.0	654.3	679.0	698.5	707.3	714.3	728.5	740.0	746.1	748.8
135°	616.3	642.8	666.7	686.1	694.9	702.0	715.2	726.7	732.9	735.5
137.5°	604.0	629.6	652.5	672.0	679.9	687.0	700.2	710.8	716.1	719.6
140°	589.8	613.7	637.5	655.2	663.1	670.2	681.7	693.2	698.5	701.1
142.5°	574.8	598.7	619.9	637.5	644.6	651.7	663.1	673.7	679.0	679.9
145°	558.9	581.9	601.3	618.1	624.3	631.3	641.9	652.5	657.8	658.7
147.5°	541.3	562.5	581.0	596.9	604.0	609.3	619.0	628.7	634.0	634.9
150°	521.0	540.4	557.2	573.1	579.2	584.5	595.1	604.0	609.3	610.2
152.5°	501.5	520.1	534.2	548.3	554.5	559.8	568.7	577.5	582.8	583.7
155°	481.2	498.0	512.1	523.6	528.9	534.2	541.3	549.2	553.6	554.5
157.5°	460.0	475.9	488.3	498.9	504.2	508.6	514.8	521.9	524.5	526.3
160°	437.1	450.3	460.9	471.5	475.9	480.4	486.5	491.8	495.4	496.2
162.5°	412.4	423.8	432.7	442.4	445.0	448.6	454.7	460.0	462.7	463.6
165°	386.8	397.4	405.3	413.2	415.0	417.7	422.1	427.4	429.1	430.9
167.5°	361.1	370.0	375.3	382.3	385.0	386.8	391.2	394.7	396.5	397.4
170°	336.4	342.6	347.0	352.3	353.2	355.8	358.5	362.0	362.9	362.9
172.5°	317.0	319.6	322.3	324.1	324.9	325.8	327.6	328.5	328.5	328.5
175°	304.6	306.4	306.4	307.3	307.3	307.3	307.3	307.3	307.3	307.3
177.5°	297.6	297.6	297.6	296.7	296.7	296.7	296.7	295.8	295.8	295.8
180°	295.8	295.8	295.8	295.8	295.8	295.8	295.8	295.8	295.8	295.8

(END OF REPORT)