

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: P395072

Luminaire Tested: **I3-WL-20L930-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-20L930-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1577.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

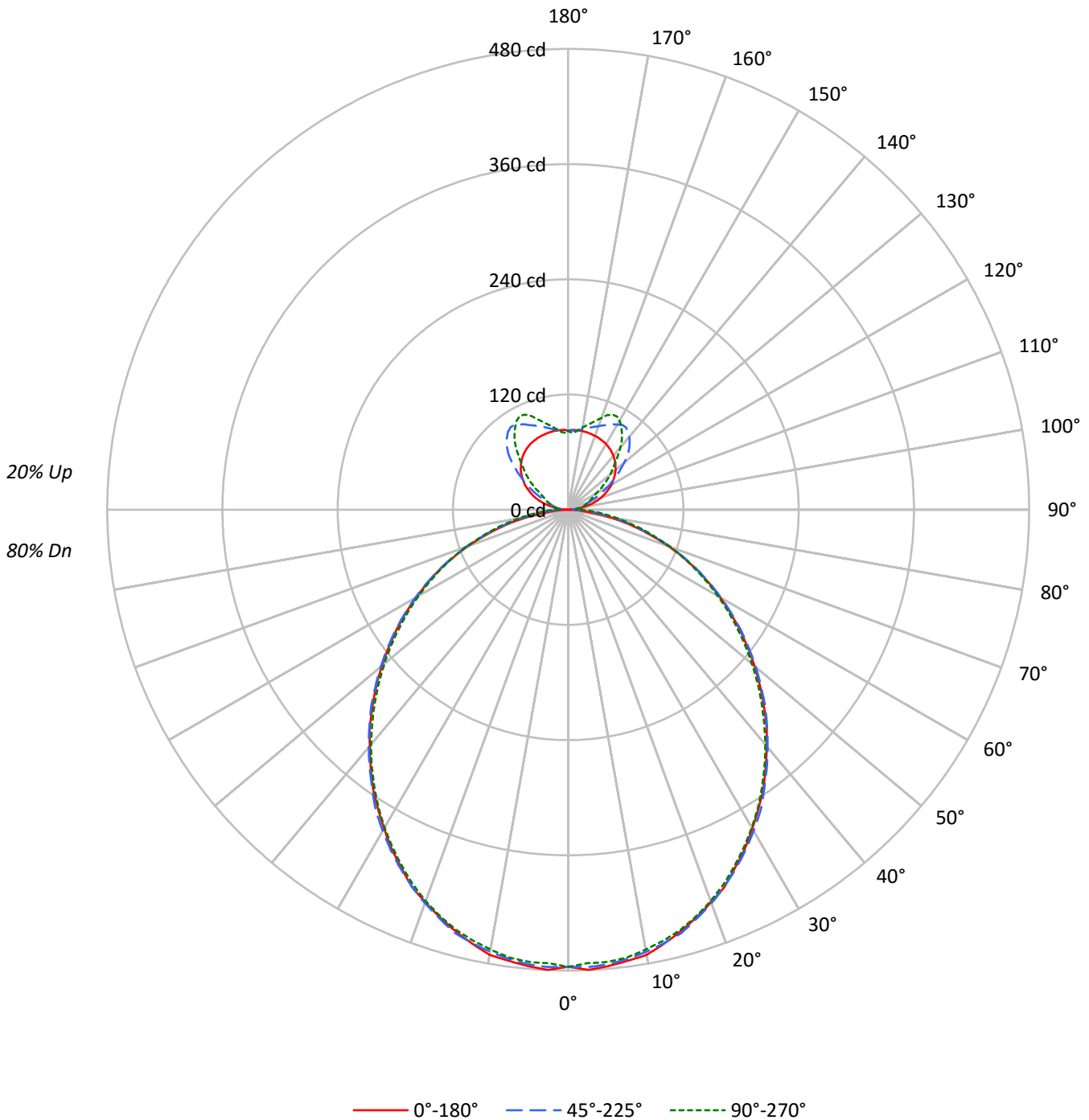
Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	56
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	47
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	40
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2616	2616	2616
5°	2623	2563	2535
10°	2608	2492	2452
15°	2556	2424	2365
20°	2505	2326	2263
25°	2445	2227	2150
30°	2375	2125	2034
35°	2309	2012	1915
40°	2227	1895	1791
45°	2147	1781	1660
50°	2061	1655	1528
55°	1972	1527	1393
60°	1872	1385	1254
65°	1757	1231	1105
70°	1593	1050	949
75°	1373	833	762
80°	1048	601	569
85°	547	359	385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	2.9
10°-20°	127.6	8.1
20°-30°	188.9	12.0
30°-40°	220.8	14.0
40°-50°	221.8	14.1
50°-60°	194.9	12.4
60°-70°	146.0	9.3
70°-80°	83.1	5.3
80°-90°	26.2	1.7
90°-100°	9.4	0.6
100°-110°	23.0	1.5
110°-120°	38.3	2.4
120°-130°	53.7	3.4
130°-140°	61.9	3.9
140°-150°	59.1	3.7
150°-160°	44.4	2.8
160°-170°	25.1	1.6
170°-180°	8.0	0.5
0°-30°	361.4	22.9
0°-40°	582.2	36.9
0°-60°	998.9	63.3
0°-90°	1254.2	79.5
90°-120°	70.8	4.5
90°-150°	245.4	15.6
90°-180°	323.0	20.5
0°-180°	1577.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	477	472	475	474	473	45
15°	454	450	456	453	453	128
25°	411	410	413	411	410	190
35°	354	352	356	353	352	221
45°	288	288	290	287	285	222
55°	218	219	220	217	215	195
65°	147	148	149	147	146	146
75°	75	76	78	80	80	79
85°	13	17	23	28	29	17
90°	0	2	7	11	12	1
95°	7	7	7	8	8	8
105°	27	23	17	18	18	28
115°	44	55	34	27	27	44
125°	58	80	61	49	45	52
135°	69	88	90	74	69	53
145°	76	87	105	100	97	48
155°	80	85	97	108	109	37
165°	83	84	89	92	94	23
175°	83	83	83	83	81	8
180°	82	82	82	82	82	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0
2.5°	479.7	478.8	476.8	474.8	474.4	474.0	474.0	473.6	473.6	474.4	476.8
5°	477.2	476.8	474.8	472.8	472.4	472.4	472.0	472.0	472.0	472.8	475.3
7.5°	474.0	473.2	471.2	469.2	468.8	468.8	468.8	468.4	468.8	469.2	472.0
10°	470.8	470.4	468.4	466.0	465.1	465.1	464.7	464.0	464.0	464.7	467.5
12.5°	462.7	462.3	460.3	458.7	458.7	459.2	459.2	459.5	459.5	460.3	462.3
15°	454.3	453.8	451.9	450.3	450.3	450.3	449.9	449.9	450.3	452.7	456.3
17.5°	445.0	444.6	443.0	441.4	441.4	441.4	441.0	441.0	441.4	442.6	446.2
20°	434.9	434.6	432.9	431.4	431.4	431.4	430.9	431.4	431.4	432.9	436.2
22.5°	425.3	424.5	422.5	420.9	420.1	420.1	420.1	419.6	420.5	421.6	424.9
25°	411.2	410.8	410.0	408.8	409.6	410.0	409.2	408.4	408.4	410.0	412.8
27.5°	398.3	397.5	396.3	395.1	394.2	394.7	395.1	395.9	397.1	397.5	399.9
30°	383.4	383.0	381.8	380.1	380.6	381.0	381.0	381.0	381.8	385.5	386.2
32.5°	368.9	368.5	367.3	365.7	366.1	366.5	366.1	366.5	367.3	368.9	372.5
35°	354.4	353.6	352.4	352.0	351.6	351.6	351.6	352.0	352.4	353.6	355.6
37.5°	337.9	337.1	336.3	335.1	335.9	336.6	337.1	336.6	337.1	338.7	339.5
40°	321.4	321.0	320.2	319.4	319.8	320.2	319.8	321.0	321.8	322.6	323.0
42.5°	305.7	304.9	304.0	303.7	303.7	304.0	304.0	304.9	304.9	306.9	306.5
45°	287.9	287.5	287.2	287.2	287.5	287.5	287.5	287.9	288.3	289.6	290.0
47.5°	270.7	270.2	270.2	270.2	270.2	270.7	271.1	272.2	271.4	271.8	272.2
50°	253.3	252.9	252.9	252.9	253.7	253.7	254.6	254.9	255.3	254.6	254.9
52.5°	235.6	235.2	236.0	236.0	236.8	236.8	238.0	236.8	237.6	237.2	237.2
55°	218.3	217.9	218.7	218.3	219.1	219.1	219.9	220.3	219.9	219.9	219.9
57.5°	200.5	200.2	200.5	200.9	201.4	201.4	202.6	202.6	201.4	202.2	201.8
60°	182.8	182.4	182.8	183.3	183.7	183.7	184.0	183.3	184.0	184.4	184.0
62.5°	165.1	164.8	165.5	165.1	165.5	165.9	165.9	167.2	166.7	166.7	166.3
65°	147.4	147.0	147.0	147.0	147.4	147.8	148.2	148.6	148.6	149.0	148.6
67.5°	129.3	128.9	129.3	128.9	129.3	129.6	130.5	130.9	130.9	131.3	130.9
70°	110.7	111.1	110.7	111.1	111.6	112.0	112.4	113.1	113.1	113.1	113.1
72.5°	92.6	92.2	92.2	91.8	92.6	93.0	93.5	94.6	94.6	95.0	95.0
75°	74.9	74.1	74.5	74.1	75.7	76.1	76.1	77.4	77.7	78.5	78.1
77.5°	57.6	57.6	56.8	58.0	58.4	59.2	60.0	60.8	61.3	62.4	62.4
80°	41.1	41.1	40.7	41.5	43.1	43.5	44.7	45.1	46.3	47.1	47.6
82.5°	26.1	26.1	26.1	27.4	28.6	29.0	30.2	31.4	32.2	33.4	33.9
85°	12.9	13.7	13.7	15.3	16.1	16.9	17.3	18.9	20.2	21.7	23.0
87.5°	4.1	4.4	4.8	5.6	7.2	7.6	8.5	10.0	11.3	12.9	14.1
90°	0.4	0.4	0.8	1.2	2.0	2.4	3.2	4.1	5.2	6.5	7.2
92.5°	2.8	2.8	3.2	3.2	3.2	3.2	3.2	3.7	4.1	4.8	5.2
95°	6.8	10.9	6.5	6.1	6.8	6.8	7.2	6.8	6.8	6.8	6.8
97.5°	11.3	20.2	13.3	9.3	8.9	9.3	9.3	10.0	10.5	10.9	10.9
100°	16.5	25.4	23.3	15.3	12.4	12.1	12.1	12.1	12.4	12.9	13.3
102.5°	21.7	29.0	33.4	23.7	17.7	16.1	15.3	14.9	14.5	14.9	14.9
105°	27.0	32.6	41.1	32.2	25.4	23.0	20.5	17.7	17.3	17.3	17.3
107.5°	31.8	36.3	46.7	41.9	33.0	30.6	27.8	23.3	20.5	20.2	19.8
110°	36.3	39.8	50.7	50.0	41.5	37.8	35.4	30.6	26.6	23.7	22.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	40.3	43.5	53.5	56.8	50.7	46.3	42.7	37.8	33.4	29.8	27.0
115°	44.3	47.1	55.9	62.4	58.8	55.2	51.1	45.1	40.7	37.0	33.9
117.5°	48.3	50.7	58.4	66.5	65.7	63.2	60.0	52.8	47.6	43.9	40.3
120°	52.0	54.4	60.8	69.3	71.7	69.6	67.6	61.3	54.8	50.7	47.6
122.5°	55.2	57.2	63.2	71.7	76.1	75.7	73.7	69.3	62.8	58.0	54.0
125°	58.4	60.4	65.7	73.3	79.3	80.5	79.8	76.1	71.3	65.7	60.8
127.5°	61.6	63.2	68.1	74.9	81.8	84.2	84.6	82.2	78.5	73.7	68.5
130°	64.4	66.1	70.1	76.1	83.3	86.2	87.8	87.4	84.6	81.3	76.1
132.5°	66.8	68.1	72.1	77.4	84.2	87.4	89.8	91.8	89.8	87.4	83.7
135°	69.3	70.5	73.7	78.5	84.6	87.8	91.1	94.2	94.6	92.6	89.8
137.5°	71.3	72.1	75.3	79.3	84.6	87.8	91.1	95.4	97.9	97.0	94.6
140°	73.3	74.1	76.5	80.5	85.0	87.8	90.6	95.9	99.1	100.3	99.1
142.5°	74.9	75.7	77.7	81.3	85.0	87.4	90.2	95.0	99.4	101.9	102.7
145°	76.5	76.9	78.9	81.8	85.0	87.0	89.4	94.2	98.7	102.3	104.7
147.5°	77.7	78.1	79.3	82.2	85.0	86.6	88.6	92.6	97.0	101.1	104.7
150°	78.9	78.9	80.2	82.2	85.0	86.2	87.8	91.4	95.0	99.1	102.3
152.5°	79.8	79.8	80.9	82.6	84.6	85.8	87.4	90.2	93.5	97.0	100.3
155°	80.5	80.5	81.3	82.6	84.6	85.4	86.6	89.0	91.8	94.6	97.4
157.5°	81.3	81.3	81.8	83.0	84.2	85.0	86.2	88.2	90.2	92.6	95.0
160°	81.8	81.8	82.2	83.0	83.7	84.6	85.4	87.0	89.0	90.6	92.6
162.5°	82.2	82.2	82.6	83.0	83.7	84.2	84.6	86.2	87.4	89.0	90.6
165°	82.6	82.6	82.6	83.0	83.3	83.7	84.2	85.0	86.2	87.4	88.6
167.5°	83.0	83.0	83.0	83.0	83.3	83.3	83.7	84.2	85.0	85.8	86.6
170°	83.3	83.0	83.0	83.3	83.0	83.0	83.3	83.7	83.7	84.6	85.0
172.5°	83.3	83.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.3	83.7
175°	83.3	83.3	83.0	83.0	83.0	82.6	82.6	82.6	82.6	82.6	82.6
177.5°	83.3	83.3	83.0	83.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6
180°	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0
2.5°	479.2	477.2	476.4	476.0	475.6	475.3	474.4	473.6	472.8	472.8
5°	477.2	475.3	474.4	474.0	473.6	473.2	472.8	472.8	472.8	472.8
7.5°	474.0	472.0	471.2	470.8	470.8	470.4	470.4	470.4	470.0	470.4
10°	469.2	467.2	466.8	466.4	466.0	465.1	465.1	465.1	464.7	465.1
12.5°	463.1	461.1	460.7	460.3	459.9	459.5	459.5	459.2	459.2	459.5
15°	457.1	454.3	453.5	453.5	453.1	452.7	453.1	452.7	452.7	452.7
17.5°	448.3	447.0	445.8	445.0	444.6	444.2	444.2	443.8	443.8	443.8
20°	436.6	436.6	436.6	434.6	434.2	433.8	433.8	433.8	433.8	433.8
22.5°	425.3	423.3	424.9	423.7	422.9	422.1	422.5	422.5	422.5	422.5
25°	412.8	411.2	411.6	412.0	411.2	410.0	410.0	410.0	410.0	409.6
27.5°	399.5	398.3	397.9	398.3	399.1	398.3	397.1	395.9	396.3	396.3
30°	385.0	384.6	384.2	383.4	384.2	384.6	382.6	382.2	382.2	382.2
32.5°	370.5	370.1	368.9	368.1	368.5	369.3	368.5	367.7	367.7	367.7
35°	356.0	354.4	353.2	352.8	352.8	353.6	353.2	352.0	352.0	352.0
37.5°	339.1	339.5	337.5	337.1	337.1	337.1	337.9	335.9	336.3	335.9
40°	322.6	323.0	321.8	320.5	321.0	320.2	321.4	319.4	319.4	319.4
42.5°	306.1	305.3	305.7	303.3	303.7	303.7	304.0	302.9	302.5	302.0
45°	289.2	288.3	287.9	286.8	286.8	286.3	286.3	284.8	284.8	284.8
47.5°	271.4	271.1	270.2	269.4	269.4	269.0	268.3	267.8	267.4	267.4
50°	254.6	253.3	252.1	252.5	252.1	251.7	250.9	250.5	250.1	249.7
52.5°	236.4	236.4	234.8	234.8	234.8	234.4	233.6	232.8	232.8	232.4
55°	218.7	218.3	217.0	216.6	217.0	216.6	215.9	215.1	215.1	214.6
57.5°	200.9	200.2	199.8	199.8	199.4	199.4	198.1	197.4	197.7	197.4
60°	182.8	182.8	182.4	182.0	182.0	181.6	180.4	180.4	180.4	180.0
62.5°	165.5	165.5	164.8	164.3	164.8	164.3	163.9	163.5	163.1	162.7
65°	147.4	147.8	147.0	147.4	147.4	146.6	146.6	146.2	146.2	145.7
67.5°	130.5	130.5	130.1	130.1	130.5	130.1	130.1	129.6	129.6	129.3
70°	113.1	114.0	113.5	113.5	113.5	113.1	113.1	113.1	112.8	113.1
72.5°	95.9	95.9	95.9	95.9	95.9	96.3	96.3	96.3	96.3	95.9
75°	79.8	80.2	79.8	80.2	80.5	80.5	80.5	80.5	80.9	80.5
77.5°	64.1	64.4	64.4	65.2	65.2	65.2	65.7	65.7	65.7	65.7
80°	49.1	49.6	50.0	50.7	50.7	51.5	52.0	52.0	52.0	52.0
82.5°	35.4	36.7	37.0	38.3	38.7	38.7	39.5	39.8	39.8	39.8
85°	24.6	25.8	26.6	27.4	28.2	28.2	29.0	29.0	29.4	29.4
87.5°	15.3	16.5	17.3	18.5	18.9	19.3	19.8	20.2	20.5	20.5
90°	8.5	9.3	10.0	10.9	10.9	11.3	11.7	12.1	12.4	12.4
92.5°	6.1	6.5	7.2	7.6	7.6	8.1	8.5	8.5	8.9	8.9
95°	6.8	7.2	7.2	7.6	7.6	7.6	8.1	8.1	8.1	8.1
97.5°	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0
100°	13.7	14.1	14.1	14.1	14.5	14.5	14.5	14.5	14.1	14.1
102.5°	15.3	15.7	16.1	16.5	16.5	16.5	16.9	16.9	16.9	16.9
105°	17.3	17.3	17.7	18.1	18.1	18.1	18.5	18.5	18.5	18.5
107.5°	19.8	19.8	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
110°	22.6	22.6	22.6	22.2	22.6	22.2	22.2	22.2	22.2	22.2



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CATALOG NUMBER: I3-WL-20L930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	25.8	25.4	25.4	25.0	25.0	25.0	24.6	24.6	24.6	24.6
115°	31.0	29.0	28.2	27.4	27.4	27.4	27.0	27.0	27.0	27.0
117.5°	37.4	34.6	33.0	31.4	31.0	30.6	29.8	29.8	29.4	29.4
120°	44.3	41.5	39.1	37.0	36.3	35.9	34.6	33.9	33.0	33.0
122.5°	50.7	47.9	45.5	43.5	42.7	41.9	40.7	39.8	39.1	39.1
125°	57.2	54.4	52.0	50.0	48.7	47.9	46.7	45.9	45.1	45.1
127.5°	64.1	60.4	58.0	55.9	54.8	54.4	52.8	52.0	51.1	51.1
130°	71.7	67.2	64.1	61.6	60.8	60.0	58.8	58.0	57.2	57.2
132.5°	79.3	74.9	71.3	68.1	66.8	66.1	64.4	63.7	62.8	62.8
135°	86.6	82.6	78.9	75.7	74.5	73.3	71.7	70.1	69.3	69.3
137.5°	92.2	89.4	86.2	83.3	82.2	80.9	79.3	77.7	76.5	76.9
140°	97.0	94.6	92.6	90.6	89.4	88.6	87.0	85.8	84.6	84.6
142.5°	101.5	99.4	97.4	95.9	95.4	95.0	93.9	92.6	91.8	91.8
145°	105.5	104.3	102.7	100.7	100.3	99.8	98.7	97.9	97.4	97.4
147.5°	106.7	107.2	106.7	105.5	105.1	104.7	103.9	103.1	102.7	102.7
150°	105.9	107.6	108.3	108.3	108.3	108.3	108.3	107.6	107.2	107.2
152.5°	103.5	105.9	107.6	108.7	109.1	109.6	109.6	110.0	109.6	109.6
155°	100.7	103.1	105.5	106.7	107.6	107.9	108.7	109.1	109.6	109.1
157.5°	97.4	99.4	101.1	103.5	104.3	105.1	105.9	106.7	107.2	106.7
160°	94.6	96.3	97.4	99.1	99.4	100.3	101.1	101.5	102.3	101.9
162.5°	91.8	93.0	94.2	95.0	95.9	96.3	97.0	97.4	97.9	97.4
165°	89.8	90.6	91.1	91.8	92.2	92.6	93.0	93.5	93.5	93.5
167.5°	87.4	88.2	88.6	89.0	89.4	89.8	89.8	90.2	90.2	90.2
170°	85.4	85.8	86.2	86.6	86.6	87.0	87.0	87.0	87.4	87.0
172.5°	83.7	83.7	83.7	84.2	84.2	84.2	84.2	84.2	84.2	83.7
175°	83.0	83.0	82.6	82.6	82.6	82.6	82.6	82.2	81.8	81.3
177.5°	82.6	82.2	82.2	81.8	81.8	81.8	81.3	80.9	80.5	80.2
180°	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2

(END OF REPORT)