

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: P395073

Luminaire Tested: **I3-WL-20L935-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395073
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-20L935-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1636.0 lumens
Efficiency: N/A
Efficacy: 109.8 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

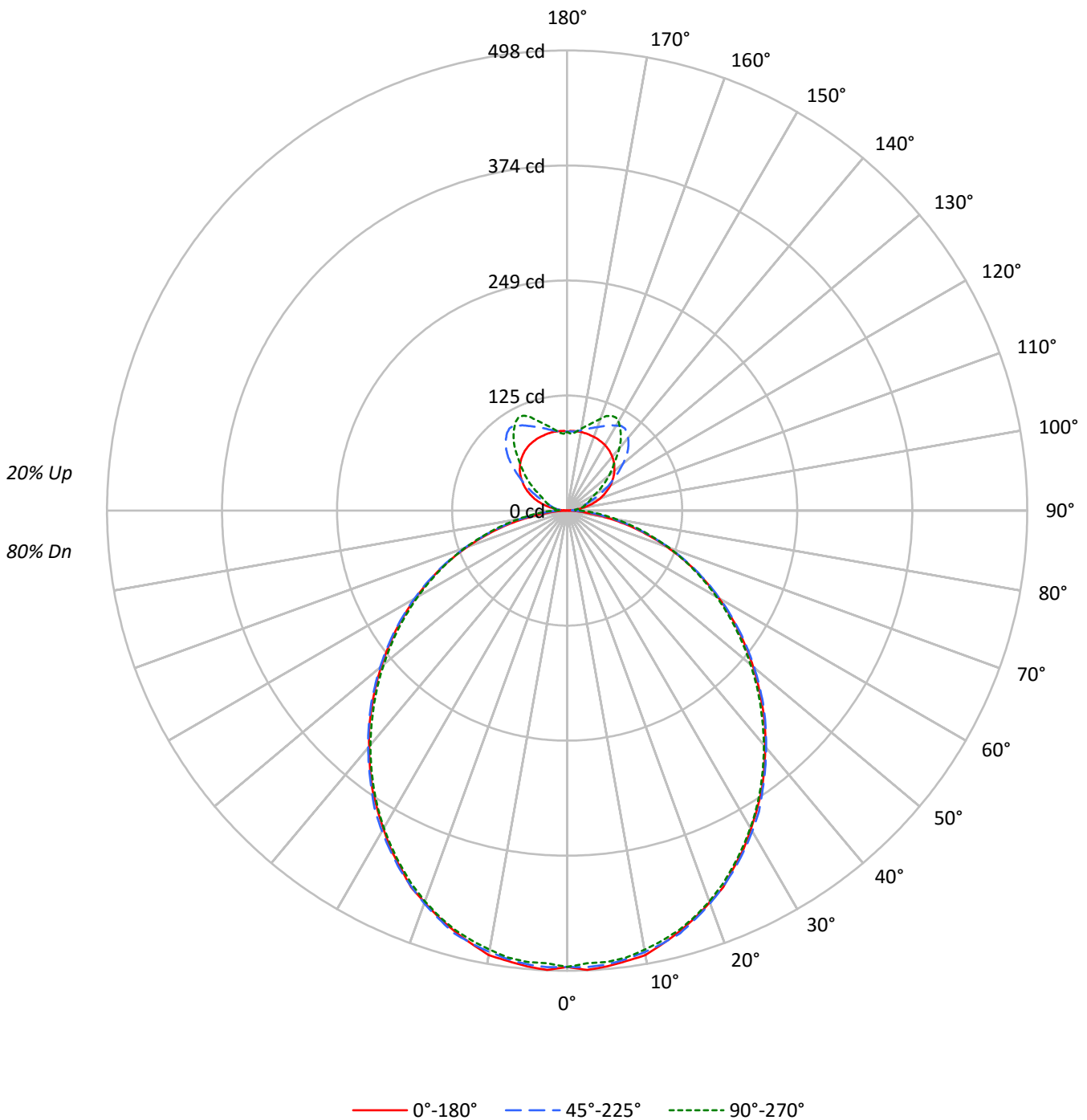
Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2714	2714	2714
5°	2722	2658	2629
10°	2706	2586	2543
15°	2651	2515	2453
20°	2599	2413	2347
25°	2536	2311	2230
30°	2464	2204	2110
35°	2395	2087	1987
40°	2310	1965	1858
45°	2227	1847	1722
50°	2139	1717	1585
55°	2045	1584	1446
60°	1942	1437	1302
65°	1822	1277	1147
70°	1653	1090	985
75°	1424	864	790
80°	1086	622	590
85°	564	372	400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	2.9
10°-20°	132.3	8.1
20°-30°	195.9	12.0
30°-40°	229.0	14.0
40°-50°	230.0	14.1
50°-60°	202.2	12.4
60°-70°	151.5	9.3
70°-80°	86.2	5.3
80°-90°	27.2	1.7
90°-100°	9.8	0.6
100°-110°	23.9	1.5
110°-120°	39.7	2.4
120°-130°	55.7	3.4
130°-140°	64.2	3.9
140°-150°	61.3	3.7
150°-160°	46.1	2.8
160°-170°	26.1	1.6
170°-180°	8.3	0.5
0°-30°	374.9	22.9
0°-40°	603.9	36.9
0°-60°	1036.2	63.3
0°-90°	1301.0	79.5
90°-120°	73.4	4.5
90°-150°	254.6	15.6
90°-180°	335.0	20.5
0°-180°	1636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	490	493	491	490	47
15°	471	467	473	470	470	133
25°	426	425	428	426	425	197
35°	368	365	369	366	365	230
45°	299	298	301	298	295	231
55°	226	227	228	225	223	202
65°	153	153	154	153	151	151
75°	78	79	81	84	84	82
85°	13	18	24	29	30	17
90°	0	2	8	11	13	1
95°	7	7	7	8	8	8
105°	28	24	18	19	19	29
115°	46	57	35	28	28	45
125°	61	84	63	50	47	54
135°	72	91	93	77	72	55
145°	79	90	109	104	101	50
155°	84	89	101	112	113	39
165°	86	87	92	96	97	24
175°	86	86	86	86	84	8
180°	85	85	85	85	85	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	497.6	496.7	494.6	492.6	492.1	491.7	491.7	491.3	491.3	492.1	494.6
5°	495.1	494.6	492.6	490.4	490.1	490.1	489.7	489.7	489.7	490.4	493.0
7.5°	491.7	490.9	488.8	486.7	486.3	486.3	486.3	485.9	486.3	486.7	489.7
10°	488.4	487.9	485.9	483.4	482.5	482.5	482.1	481.3	481.3	482.1	485.0
12.5°	480.0	479.6	477.5	475.9	475.9	476.3	476.3	476.6	476.6	477.5	479.6
15°	471.2	470.8	468.7	467.1	467.1	467.1	466.7	466.7	467.1	469.6	473.4
17.5°	461.7	461.2	459.5	457.9	457.9	457.9	457.4	457.4	457.9	459.2	462.9
20°	451.2	450.8	449.1	447.5	447.5	447.5	447.0	447.5	447.5	449.1	452.5
22.5°	441.2	440.3	438.2	436.6	435.8	435.8	435.8	435.3	436.2	437.4	440.7
25°	426.5	426.1	425.3	424.0	424.9	425.3	424.5	423.6	423.6	425.3	428.3
27.5°	413.2	412.3	411.1	409.8	409.0	409.4	409.8	410.7	411.9	412.3	414.8
30°	397.7	397.3	396.1	394.3	394.8	395.2	395.2	395.2	396.1	399.8	400.6
32.5°	382.7	382.3	381.0	379.4	379.8	380.2	379.8	380.2	381.0	382.7	386.4
35°	367.6	366.8	365.6	365.2	364.7	364.7	364.7	365.2	365.6	366.8	368.9
37.5°	350.5	349.7	348.9	347.6	348.4	349.2	349.7	349.2	349.7	351.4	352.1
40°	333.4	332.9	332.2	331.3	331.7	332.2	331.7	332.9	333.8	334.7	335.0
42.5°	317.1	316.2	315.4	315.0	315.0	315.4	315.4	316.2	316.2	318.3	318.0
45°	298.7	298.3	297.9	297.9	298.3	298.3	298.3	298.7	299.1	300.4	300.8
47.5°	280.8	280.3	280.3	280.3	280.3	280.8	281.2	282.4	281.5	282.0	282.4
50°	262.8	262.3	262.3	262.3	263.2	263.2	264.1	264.4	264.8	264.1	264.4
52.5°	244.4	244.0	244.8	244.8	245.6	245.6	246.9	245.6	246.5	246.1	246.1
55°	226.4	226.0	226.9	226.4	227.3	227.3	228.1	228.5	228.1	228.1	228.1
57.5°	208.0	207.7	208.0	208.4	208.9	208.9	210.2	210.2	208.9	209.7	209.3
60°	189.7	189.2	189.7	190.1	190.5	190.5	190.9	190.1	190.9	191.3	190.9
62.5°	171.3	170.9	171.7	171.3	171.7	172.1	172.1	173.4	173.0	173.0	172.5
65°	152.9	152.5	152.5	152.5	152.9	153.3	153.8	154.1	154.1	154.5	154.1
67.5°	134.1	133.7	134.1	133.7	134.1	134.5	135.3	135.8	135.8	136.2	135.8
70°	114.9	115.3	114.9	115.3	115.7	116.1	116.6	117.4	117.4	117.4	117.4
72.5°	96.1	95.7	95.7	95.2	96.1	96.5	96.9	98.2	98.2	98.6	98.6
75°	77.7	76.9	77.3	76.9	78.5	79.0	79.0	80.2	80.6	81.5	81.0
77.5°	59.8	59.8	58.9	60.2	60.6	61.4	62.3	63.1	63.5	64.7	64.7
80°	42.6	42.6	42.2	43.0	44.7	45.1	46.4	46.8	48.0	48.9	49.3
82.5°	27.1	27.1	27.1	28.4	29.7	30.0	31.3	32.5	33.4	34.7	35.1
85°	13.3	14.2	14.2	15.8	16.7	17.6	18.0	19.6	20.9	22.6	23.8
87.5°	4.2	4.6	5.0	5.9	7.5	7.9	8.8	10.4	11.7	13.3	14.6
90°	0.4	0.4	0.9	1.3	2.1	2.5	3.4	4.2	5.4	6.7	7.5
92.5°	2.9	2.9	3.4	3.4	3.4	3.4	3.4	3.8	4.2	5.0	5.4
95°	7.1	11.3	6.7	6.3	7.1	7.1	7.5	7.1	7.1	7.1	7.1
97.5°	11.7	20.9	13.8	9.6	9.2	9.6	9.6	10.4	10.8	11.3	11.3
100°	17.1	26.3	24.2	15.8	12.9	12.6	12.6	12.6	12.9	13.3	13.8
102.5°	22.6	30.0	34.7	24.6	18.3	16.7	15.8	15.5	15.1	15.5	15.5
105°	28.0	33.8	42.6	33.4	26.3	23.8	21.3	18.3	18.0	18.0	18.0
107.5°	33.0	37.6	48.5	43.5	34.3	31.8	28.8	24.2	21.3	20.9	20.5
110°	37.6	41.3	52.6	51.8	43.0	39.3	36.8	31.8	27.6	24.6	23.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	41.8	45.1	55.5	58.9	52.6	48.0	44.3	39.3	34.7	30.9	28.0
115°	46.0	48.9	58.0	64.7	61.0	57.3	53.0	46.8	42.2	38.4	35.1
117.5°	50.1	52.6	60.6	69.0	68.1	65.6	62.3	54.8	49.3	45.5	41.8
120°	53.9	56.4	63.1	71.9	74.4	72.2	70.2	63.5	56.8	52.6	49.3
122.5°	57.3	59.3	65.6	74.4	79.0	78.5	76.5	71.9	65.2	60.2	56.0
125°	60.6	62.7	68.1	76.0	82.3	83.5	82.7	79.0	74.0	68.1	63.1
127.5°	63.9	65.6	70.6	77.7	84.8	87.3	87.7	85.2	81.5	76.5	71.0
130°	66.8	68.5	72.7	79.0	86.4	89.4	91.1	90.7	87.7	84.4	79.0
132.5°	69.3	70.6	74.8	80.2	87.3	90.7	93.2	95.2	93.2	90.7	86.9
135°	71.9	73.1	76.5	81.5	87.7	91.1	94.5	97.7	98.2	96.1	93.2
137.5°	74.0	74.8	78.1	82.3	87.7	91.1	94.5	99.0	101.5	100.7	98.2
140°	76.0	76.9	79.4	83.5	88.2	91.1	94.0	99.4	102.8	104.0	102.8
142.5°	77.7	78.5	80.6	84.4	88.2	90.7	93.6	98.6	103.1	105.7	106.5
145°	79.4	79.8	81.9	84.8	88.2	90.2	92.7	97.7	102.4	106.1	108.7
147.5°	80.6	81.0	82.3	85.2	88.2	89.8	91.9	96.1	100.7	104.9	108.7
150°	81.9	81.9	83.2	85.2	88.2	89.4	91.1	94.8	98.6	102.8	106.1
152.5°	82.7	82.7	83.9	85.7	87.7	89.0	90.7	93.6	96.9	100.7	104.0
155°	83.5	83.5	84.4	85.7	87.7	88.6	89.8	92.3	95.2	98.2	101.1
157.5°	84.4	84.4	84.8	86.1	87.3	88.2	89.4	91.5	93.6	96.1	98.6
160°	84.8	84.8	85.2	86.1	86.9	87.7	88.6	90.2	92.3	94.0	96.1
162.5°	85.2	85.2	85.7	86.1	86.9	87.3	87.7	89.4	90.7	92.3	94.0
165°	85.7	85.7	85.7	86.1	86.4	86.9	87.3	88.2	89.4	90.7	91.9
167.5°	86.1	86.1	86.1	86.1	86.4	86.4	86.9	87.3	88.2	89.0	89.8
170°	86.4	86.1	86.1	86.4	86.1	86.1	86.4	86.9	86.9	87.7	88.2
172.5°	86.4	86.4	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.4	86.9
175°	86.4	86.4	86.1	86.1	86.1	85.7	85.7	85.7	85.7	85.7	85.7
177.5°	86.4	86.4	86.1	86.1	85.7	85.7	85.7	85.7	85.7	85.7	85.7
180°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	497.1	495.1	494.2	493.8	493.4	493.0	492.1	491.3	490.4	490.4
5°	495.1	493.0	492.1	491.7	491.3	490.9	490.4	490.4	490.4	490.4
7.5°	491.7	489.7	488.8	488.4	488.4	487.9	487.9	487.9	487.6	487.9
10°	486.7	484.7	484.2	483.8	483.4	482.5	482.5	482.5	482.1	482.5
12.5°	480.4	478.4	477.9	477.5	477.1	476.6	476.6	476.3	476.3	476.6
15°	474.2	471.2	470.5	470.5	470.0	469.6	470.0	469.6	469.6	469.6
17.5°	465.0	463.7	462.4	461.7	461.2	460.8	460.8	460.4	460.4	460.4
20°	452.9	452.9	452.9	450.8	450.4	450.0	450.0	450.0	450.0	450.0
22.5°	441.2	439.1	440.7	439.5	438.7	437.8	438.2	438.2	438.2	438.2
25°	428.3	426.5	427.0	427.4	426.5	425.3	425.3	425.3	425.3	424.9
27.5°	414.4	413.2	412.8	413.2	414.1	413.2	411.9	410.7	411.1	411.1
30°	399.4	399.0	398.6	397.7	398.6	399.0	396.9	396.5	396.5	396.5
32.5°	384.4	383.9	382.7	381.9	382.3	383.1	382.3	381.4	381.4	381.4
35°	369.3	367.6	366.4	366.0	366.0	366.8	366.4	365.2	365.2	365.2
37.5°	351.8	352.1	350.1	349.7	349.7	349.7	350.5	348.4	348.9	348.4
40°	334.7	335.0	333.8	332.5	332.9	332.2	333.4	331.3	331.3	331.3
42.5°	317.5	316.7	317.1	314.6	315.0	315.0	315.4	314.2	313.7	313.3
45°	300.0	299.1	298.7	297.5	297.5	297.0	297.0	295.4	295.4	295.4
47.5°	281.5	281.2	280.3	279.5	279.5	279.1	278.3	277.8	277.4	277.4
50°	264.1	262.8	261.5	261.9	261.5	261.1	260.3	259.8	259.4	259.0
52.5°	245.2	245.2	243.6	243.6	243.6	243.1	242.3	241.5	241.5	241.1
55°	226.9	226.4	225.2	224.7	225.2	224.7	223.9	223.1	223.1	222.7
57.5°	208.4	207.7	207.2	207.2	206.8	206.8	205.5	204.7	205.1	204.7
60°	189.7	189.7	189.2	188.8	188.8	188.4	187.2	187.2	187.2	186.8
62.5°	171.7	171.7	170.9	170.5	170.9	170.5	170.0	169.6	169.2	168.8
65°	152.9	153.3	152.5	152.9	152.9	152.1	152.1	151.6	151.6	151.2
67.5°	135.3	135.3	134.9	134.9	135.3	134.9	134.9	134.5	134.5	134.1
70°	117.4	118.2	117.8	117.8	117.8	117.4	117.4	117.4	117.0	117.4
72.5°	99.4	99.4	99.4	99.4	99.4	99.9	99.9	99.9	99.9	99.4
75°	82.7	83.2	82.7	83.2	83.5	83.5	83.5	83.5	83.9	83.5
77.5°	66.5	66.8	66.8	67.7	67.7	67.7	68.1	68.1	68.1	68.1
80°	51.0	51.4	51.8	52.6	52.6	53.5	53.9	53.9	53.9	53.9
82.5°	36.8	38.1	38.4	39.7	40.1	40.1	41.0	41.3	41.3	41.3
85°	25.5	26.8	27.6	28.4	29.3	29.3	30.0	30.0	30.5	30.5
87.5°	15.8	17.1	18.0	19.2	19.6	20.1	20.5	20.9	21.3	21.3
90°	8.8	9.6	10.4	11.3	11.3	11.7	12.1	12.6	12.9	12.9
92.5°	6.3	6.7	7.5	7.9	7.9	8.4	8.8	8.8	9.2	9.2
95°	7.1	7.5	7.5	7.9	7.9	7.9	8.4	8.4	8.4	8.4
97.5°	10.8	10.8	10.8	10.4	10.4	10.4	10.4	10.4	10.4	10.4
100°	14.2	14.6	14.6	14.6	15.1	15.1	15.1	15.1	14.6	14.6
102.5°	15.8	16.3	16.7	17.1	17.1	17.1	17.6	17.6	17.6	17.6
105°	18.0	18.0	18.3	18.8	18.8	18.8	19.2	19.2	19.2	19.2
107.5°	20.5	20.5	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
110°	23.4	23.4	23.4	23.0	23.4	23.0	23.0	23.0	23.0	23.0



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CATALOG NUMBER: I3-WL-20L935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	26.8	26.3	26.3	25.9	25.9	25.9	25.5	25.5	25.5	25.5
115°	32.2	30.0	29.3	28.4	28.4	28.4	28.0	28.0	28.0	28.0
117.5°	38.8	35.9	34.3	32.5	32.2	31.8	30.9	30.9	30.5	30.5
120°	46.0	43.0	40.6	38.4	37.6	37.2	35.9	35.1	34.3	34.3
122.5°	52.6	49.7	47.2	45.1	44.3	43.5	42.2	41.3	40.6	40.6
125°	59.3	56.4	53.9	51.8	50.5	49.7	48.5	47.6	46.8	46.8
127.5°	66.5	62.7	60.2	58.0	56.8	56.4	54.8	53.9	53.0	53.0
130°	74.4	69.7	66.5	63.9	63.1	62.3	61.0	60.2	59.3	59.3
132.5°	82.3	77.7	74.0	70.6	69.3	68.5	66.8	66.0	65.2	65.2
135°	89.8	85.7	81.9	78.5	77.3	76.0	74.4	72.7	71.9	71.9
137.5°	95.7	92.7	89.4	86.4	85.2	83.9	82.3	80.6	79.4	79.8
140°	100.7	98.2	96.1	94.0	92.7	91.9	90.2	89.0	87.7	87.7
142.5°	105.3	103.1	101.1	99.4	99.0	98.6	97.4	96.1	95.2	95.2
145°	109.4	108.2	106.5	104.4	104.0	103.6	102.4	101.5	101.1	101.1
147.5°	110.7	111.2	110.7	109.4	109.0	108.7	107.8	106.9	106.5	106.5
150°	109.9	111.6	112.4	112.4	112.4	112.4	112.4	111.6	111.2	111.2
152.5°	107.4	109.9	111.6	112.8	113.2	113.7	113.7	114.1	113.7	113.7
155°	104.4	106.9	109.4	110.7	111.6	111.9	112.8	113.2	113.7	113.2
157.5°	101.1	103.1	104.9	107.4	108.2	109.0	109.9	110.7	111.2	110.7
160°	98.2	99.9	101.1	102.8	103.1	104.0	104.9	105.3	106.1	105.7
162.5°	95.2	96.5	97.7	98.6	99.4	99.9	100.7	101.1	101.5	101.1
165°	93.2	94.0	94.5	95.2	95.7	96.1	96.5	96.9	96.9	96.9
167.5°	90.7	91.5	91.9	92.3	92.7	93.2	93.2	93.6	93.6	93.6
170°	88.6	89.0	89.4	89.8	89.8	90.2	90.2	90.2	90.7	90.2
172.5°	86.9	86.9	86.9	87.3	87.3	87.3	87.3	87.3	87.3	86.9
175°	86.1	86.1	85.7	85.7	85.7	85.7	85.7	85.2	84.8	84.4
177.5°	85.7	85.2	85.2	84.8	84.8	84.8	84.4	83.9	83.5	83.2
180°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2

(END OF REPORT)