

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: P395074

Luminaire Tested: **I3-WL-20L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395074
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-20L940-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

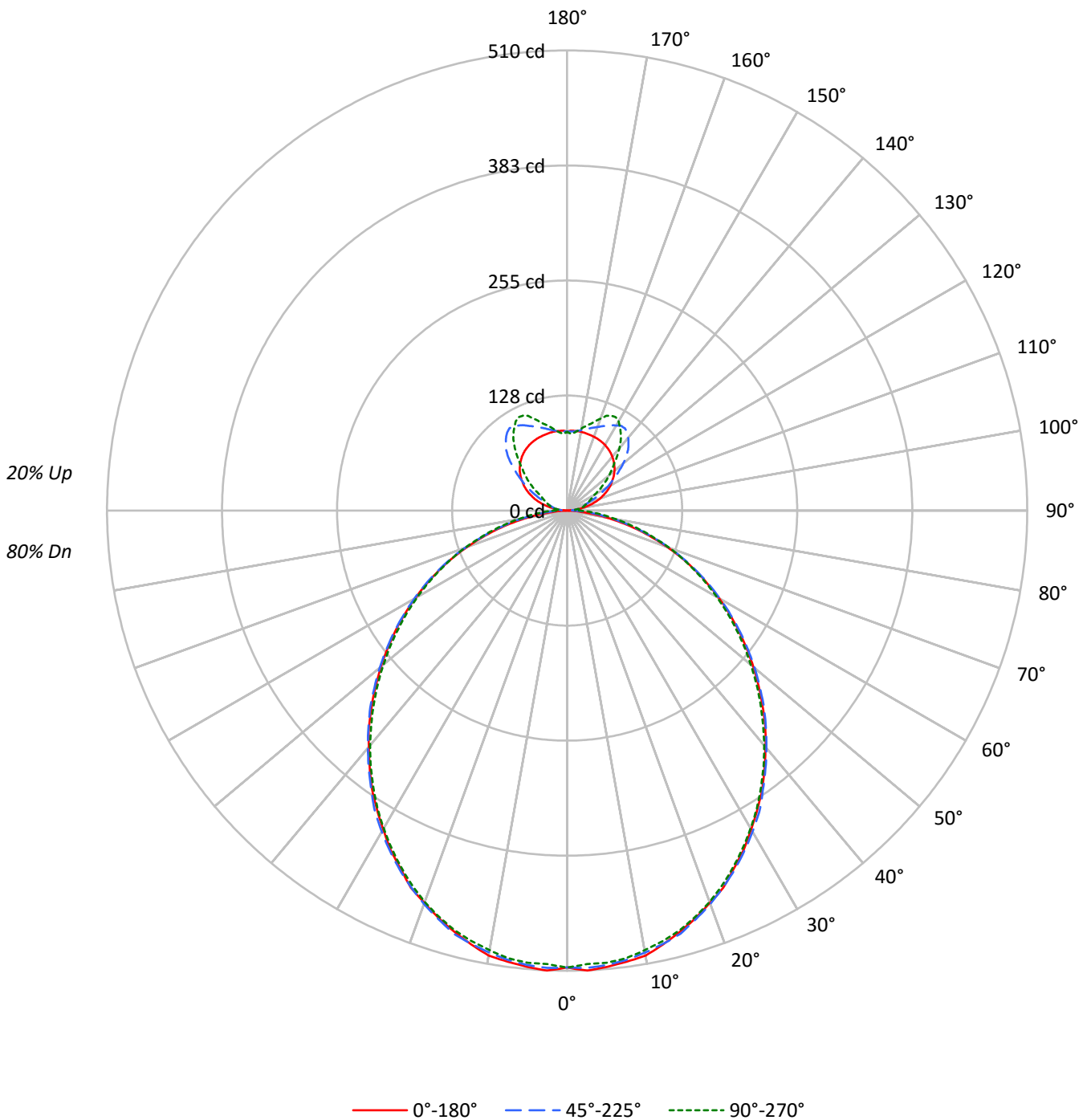
Lumens per Lamp: N/A
Luminaire Lumens: 1677.8 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

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°	2783	2783	2783
5°	2791	2726	2697
10°	2774	2652	2608
15°	2719	2579	2516
20°	2665	2475	2407
25°	2601	2370	2287
30°	2527	2261	2164
35°	2456	2140	2037
40°	2369	2016	1905
45°	2284	1894	1766
50°	2193	1761	1625
55°	2098	1625	1482
60°	1991	1474	1335
65°	1869	1310	1176
70°	1695	1118	1010
75°	1461	886	811
80°	1114	639	606
85°	581	383	410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	2.9
10°-20°	135.7	8.1
20°-30°	201.0	12.0
30°-40°	234.9	14.0
40°-50°	235.9	14.1
50°-60°	207.3	12.4
60°-70°	155.4	9.3
70°-80°	88.4	5.3
80°-90°	27.9	1.7
90°-100°	10.0	0.6
100°-110°	24.5	1.5
110°-120°	40.7	2.4
120°-130°	57.1	3.4
130°-140°	65.8	3.9
140°-150°	62.8	3.7
150°-160°	47.3	2.8
160°-170°	26.8	1.6
170°-180°	8.5	0.5
0°-30°	384.5	22.9
0°-40°	619.4	36.9
0°-60°	1062.6	63.3
0°-90°	1334.3	79.5
90°-120°	75.3	4.5
90°-150°	261.1	15.6
90°-180°	344.0	20.5
0°-180°	1677.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	506	506	506	506	506	
5°	508	503	506	504	503	48
15°	483	479	486	482	482	136
25°	437	436	439	437	436	202
35°	377	374	378	375	374	235
45°	306	306	308	305	303	236
55°	232	233	234	231	228	208
65°	157	157	158	157	155	155
75°	80	81	83	86	86	84
85°	14	18	24	30	31	18
90°	0	3	8	12	13	1
95°	7	7	7	8	9	8
105°	29	24	18	19	20	30
115°	47	59	36	29	29	47
125°	62	86	65	52	48	56
135°	74	93	96	79	74	57
145°	81	92	111	107	104	51
155°	86	91	104	114	116	40
165°	88	89	94	98	99	25
175°	89	88	88	88	86	8
180°	87	87	87	87	87	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
2.5°	510.3	509.4	507.3	505.2	504.7	504.3	504.3	503.8	503.8	504.7	507.3
5°	507.7	507.3	505.2	503.0	502.6	502.6	502.2	502.2	502.2	503.0	505.6
7.5°	504.3	503.4	501.3	499.2	498.7	498.7	498.7	498.3	498.7	499.2	502.2
10°	500.8	500.4	498.3	495.7	494.8	494.8	494.4	493.6	493.6	494.4	497.4
12.5°	492.3	491.8	489.7	488.0	488.0	488.5	488.5	488.8	488.8	489.7	491.8
15°	483.3	482.8	480.7	479.0	479.0	479.0	478.6	478.6	479.0	481.6	485.5
17.5°	473.5	473.0	471.3	469.6	469.6	469.6	469.1	469.1	469.6	470.9	474.7
20°	462.7	462.3	460.6	458.9	458.9	458.9	458.5	458.9	458.9	460.6	464.0
22.5°	452.4	451.6	449.4	447.8	446.9	446.9	446.9	446.4	447.3	448.6	452.0
25°	437.4	437.0	436.2	434.9	435.8	436.2	435.3	434.4	434.4	436.2	439.2
27.5°	423.8	422.9	421.6	420.3	419.4	419.9	420.3	421.2	422.4	422.9	425.4
30°	407.9	407.4	406.2	404.4	404.9	405.3	405.3	405.3	406.2	410.1	410.9
32.5°	392.5	392.1	390.7	389.0	389.5	389.9	389.5	389.9	390.7	392.5	396.3
35°	377.0	376.2	374.9	374.5	374.0	374.0	374.0	374.5	374.9	376.2	378.3
37.5°	359.5	358.6	357.8	356.5	357.4	358.1	358.6	358.1	358.6	360.4	361.1
40°	341.9	341.5	340.7	339.8	340.2	340.7	340.2	341.5	342.3	343.2	343.6
42.5°	325.2	324.3	323.4	323.1	323.1	323.4	323.4	324.3	324.3	326.4	326.1
45°	306.3	305.9	305.5	305.5	305.9	305.9	305.9	306.3	306.8	308.1	308.5
47.5°	287.9	287.5	287.5	287.5	287.5	287.9	288.4	289.6	288.7	289.2	289.6
50°	269.5	269.1	269.1	269.1	269.9	269.9	270.8	271.2	271.6	270.8	271.2
52.5°	250.7	250.2	251.0	251.0	251.9	251.9	253.2	251.9	252.8	252.4	252.4
55°	232.2	231.8	232.7	232.2	233.1	233.1	233.9	234.3	233.9	233.9	233.9
57.5°	213.3	213.0	213.3	213.8	214.2	214.2	215.5	215.5	214.2	215.1	214.7
60°	194.5	194.1	194.5	195.0	195.4	195.4	195.8	195.0	195.8	196.2	195.8
62.5°	175.6	175.3	176.1	175.6	176.1	176.5	176.5	177.8	177.4	177.4	177.0
65°	156.8	156.4	156.4	156.4	156.8	157.3	157.7	158.1	158.1	158.5	158.1
67.5°	137.6	137.1	137.6	137.1	137.6	137.9	138.8	139.2	139.2	139.7	139.2
70°	117.8	118.2	117.8	118.2	118.7	119.1	119.6	120.4	120.4	120.4	120.4
72.5°	98.5	98.1	98.1	97.7	98.5	99.0	99.4	100.7	100.7	101.1	101.1
75°	79.7	78.9	79.3	78.9	80.5	81.0	81.0	82.3	82.6	83.5	83.1
77.5°	61.3	61.3	60.4	61.7	62.2	63.0	63.8	64.7	65.2	66.4	66.4
80°	43.7	43.7	43.3	44.2	45.8	46.3	47.6	47.9	49.3	50.2	50.6
82.5°	27.8	27.8	27.8	29.1	30.5	30.8	32.1	33.4	34.3	35.6	36.0
85°	13.7	14.6	14.6	16.2	17.1	18.0	18.5	20.1	21.5	23.1	24.5
87.5°	4.3	4.7	5.1	6.0	7.7	8.1	9.0	10.7	12.0	13.7	15.0
90°	0.4	0.4	0.9	1.3	2.1	2.6	3.4	4.3	5.6	6.9	7.7
92.5°	3.0	3.0	3.4	3.4	3.4	3.4	3.4	3.9	4.3	5.1	5.6
95°	7.2	11.6	6.9	6.4	7.2	7.2	7.7	7.2	7.2	7.2	7.2
97.5°	12.0	21.5	14.1	9.9	9.4	9.9	9.9	10.7	11.1	11.6	11.6
100°	17.6	27.0	24.8	16.2	13.2	12.9	12.9	12.9	13.2	13.7	14.1
102.5°	23.1	30.8	35.6	25.3	18.8	17.1	16.2	15.9	15.5	15.9	15.9
105°	28.7	34.7	43.7	34.3	27.0	24.5	21.8	18.8	18.5	18.5	18.5
107.5°	33.8	38.6	49.7	44.6	35.1	32.6	29.6	24.8	21.8	21.5	21.0
110°	38.6	42.4	54.0	53.2	44.2	40.3	37.7	32.6	28.3	25.3	24.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	42.8	46.3	57.0	60.4	54.0	49.3	45.4	40.3	35.6	31.7	28.7
115°	47.2	50.2	59.5	66.4	62.5	58.7	54.4	47.9	43.3	39.4	36.0
117.5°	51.4	54.0	62.2	70.7	69.8	67.3	63.8	56.2	50.6	46.7	42.8
120°	55.3	57.8	64.7	73.7	76.3	74.1	72.0	65.2	58.3	54.0	50.6
122.5°	58.7	60.8	67.3	76.3	81.0	80.5	78.4	73.7	66.8	61.7	57.4
125°	62.2	64.3	69.8	78.0	84.4	85.7	84.9	81.0	75.8	69.8	64.7
127.5°	65.5	67.3	72.4	79.7	87.0	89.5	90.0	87.4	83.5	78.4	72.8
130°	68.5	70.3	74.5	81.0	88.7	91.7	93.4	93.0	90.0	86.5	81.0
132.5°	71.1	72.4	76.7	82.3	89.5	93.0	95.5	97.7	95.5	93.0	89.1
135°	73.7	75.0	78.4	83.5	90.0	93.4	96.9	100.2	100.7	98.5	95.5
137.5°	75.8	76.7	80.1	84.4	90.0	93.4	96.9	101.5	104.1	103.2	100.7
140°	78.0	78.9	81.4	85.7	90.4	93.4	96.4	102.0	105.4	106.7	105.4
142.5°	79.7	80.5	82.6	86.5	90.4	93.0	96.0	101.1	105.8	108.4	109.2
145°	81.4	81.9	84.0	87.0	90.4	92.5	95.1	100.2	105.0	108.8	111.4
147.5°	82.6	83.1	84.4	87.4	90.4	92.1	94.2	98.5	103.2	107.5	111.4
150°	84.0	84.0	85.3	87.4	90.4	91.7	93.4	97.2	101.1	105.4	108.8
152.5°	84.9	84.9	86.1	87.9	90.0	91.3	93.0	96.0	99.4	103.2	106.7
155°	85.7	85.7	86.5	87.9	90.0	90.9	92.1	94.7	97.7	100.7	103.7
157.5°	86.5	86.5	87.0	88.3	89.5	90.4	91.7	93.9	96.0	98.5	101.1
160°	87.0	87.0	87.4	88.3	89.1	90.0	90.9	92.5	94.7	96.4	98.5
162.5°	87.4	87.4	87.9	88.3	89.1	89.5	90.0	91.7	93.0	94.7	96.4
165°	87.9	87.9	87.9	88.3	88.7	89.1	89.5	90.4	91.7	93.0	94.2
167.5°	88.3	88.3	88.3	88.3	88.7	88.7	89.1	89.5	90.4	91.3	92.1
170°	88.7	88.3	88.3	88.7	88.3	88.3	88.7	89.1	89.1	90.0	90.4
172.5°	88.7	88.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.7	89.1
175°	88.7	88.7	88.3	88.3	88.3	87.9	87.9	87.9	87.9	87.9	87.9
177.5°	88.7	88.7	88.3	88.3	87.9	87.9	87.9	87.9	87.9	87.9	87.9
180°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
2.5°	509.8	507.7	506.8	506.4	506.0	505.6	504.7	503.8	503.0	503.0
5°	507.7	505.6	504.7	504.3	503.8	503.4	503.0	503.0	503.0	503.0
7.5°	504.3	502.2	501.3	500.8	500.8	500.4	500.4	500.4	500.0	500.4
10°	499.2	497.0	496.6	496.2	495.7	494.8	494.8	494.8	494.4	494.8
12.5°	492.7	490.6	490.2	489.7	489.3	488.8	488.8	488.5	488.5	488.8
15°	486.3	483.3	482.5	482.5	482.0	481.6	482.0	481.6	481.6	481.6
17.5°	476.9	475.6	474.3	473.5	473.0	472.6	472.6	472.1	472.1	472.1
20°	464.5	464.5	464.5	462.3	461.9	461.5	461.5	461.5	461.5	461.5
22.5°	452.4	450.3	452.0	450.8	449.9	449.0	449.4	449.4	449.4	449.4
25°	439.2	437.4	437.9	438.3	437.4	436.2	436.2	436.2	436.2	435.8
27.5°	425.0	423.8	423.3	423.8	424.6	423.8	422.4	421.2	421.6	421.6
30°	409.6	409.2	408.7	407.9	408.7	409.2	407.1	406.6	406.6	406.6
32.5°	394.2	393.7	392.5	391.6	392.1	392.8	392.1	391.2	391.2	391.2
35°	378.7	377.0	375.7	375.4	375.4	376.2	375.7	374.5	374.5	374.5
37.5°	360.8	361.1	359.0	358.6	358.6	358.6	359.5	357.4	357.8	357.4
40°	343.2	343.6	342.3	341.0	341.5	340.7	341.9	339.8	339.8	339.8
42.5°	325.7	324.8	325.2	322.6	323.1	323.1	323.4	322.2	321.8	321.3
45°	307.6	306.8	306.3	305.1	305.1	304.6	304.6	303.0	303.0	303.0
47.5°	288.7	288.4	287.5	286.6	286.6	286.2	285.4	284.9	284.5	284.5
50°	270.8	269.5	268.2	268.6	268.2	267.8	266.9	266.5	266.0	265.6
52.5°	251.5	251.5	249.8	249.8	249.8	249.4	248.5	247.7	247.7	247.2
55°	232.7	232.2	230.9	230.5	230.9	230.5	229.7	228.8	228.8	228.3
57.5°	213.8	213.0	212.5	212.5	212.1	212.1	210.8	210.0	210.3	210.0
60°	194.5	194.5	194.1	193.6	193.6	193.2	192.0	192.0	192.0	191.5
62.5°	176.1	176.1	175.3	174.8	175.3	174.8	174.4	174.0	173.5	173.1
65°	156.8	157.3	156.4	156.8	156.8	155.9	155.9	155.5	155.5	155.1
67.5°	138.8	138.8	138.4	138.4	138.8	138.4	138.4	137.9	137.9	137.6
70°	120.4	121.2	120.8	120.8	120.8	120.4	120.4	120.4	120.0	120.4
72.5°	102.0	102.0	102.0	102.0	102.0	102.4	102.4	102.4	102.4	102.0
75°	84.9	85.3	84.9	85.3	85.7	85.7	85.7	85.7	86.1	85.7
77.5°	68.2	68.5	68.5	69.4	69.4	69.4	69.8	69.8	69.8	69.8
80°	52.3	52.7	53.2	54.0	54.0	54.8	55.3	55.3	55.3	55.3
82.5°	37.7	39.0	39.4	40.7	41.1	41.1	42.0	42.4	42.4	42.4
85°	26.1	27.5	28.3	29.1	30.0	30.0	30.8	30.8	31.3	31.3
87.5°	16.2	17.6	18.5	19.7	20.1	20.6	21.0	21.5	21.8	21.8
90°	9.0	9.9	10.7	11.6	11.6	12.0	12.5	12.9	13.2	13.2
92.5°	6.4	6.9	7.7	8.1	8.1	8.6	9.0	9.0	9.4	9.4
95°	7.2	7.7	7.7	8.1	8.1	8.1	8.6	8.6	8.6	8.6
97.5°	11.1	11.1	11.1	10.7	10.7	10.7	10.7	10.7	10.7	10.7
100°	14.6	15.0	15.0	15.0	15.5	15.5	15.5	15.5	15.0	15.0
102.5°	16.2	16.7	17.1	17.6	17.6	17.6	18.0	18.0	18.0	18.0
105°	18.5	18.5	18.8	19.2	19.2	19.2	19.7	19.7	19.7	19.7
107.5°	21.0	21.0	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
110°	24.0	24.0	24.0	23.6	24.0	23.6	23.6	23.6	23.6	23.6



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CATALOG NUMBER: I3-WL-20L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	27.5	27.0	27.0	26.6	26.6	26.6	26.1	26.1	26.1	26.1
115°	33.0	30.8	30.0	29.1	29.1	29.1	28.7	28.7	28.7	28.7
117.5°	39.8	36.8	35.1	33.4	33.0	32.6	31.7	31.7	31.3	31.3
120°	47.2	44.2	41.6	39.4	38.6	38.1	36.8	36.0	35.1	35.1
122.5°	54.0	50.9	48.4	46.3	45.4	44.6	43.3	42.4	41.6	41.6
125°	60.8	57.8	55.3	53.2	51.8	50.9	49.7	48.8	47.9	47.9
127.5°	68.2	64.3	61.7	59.5	58.3	57.8	56.2	55.3	54.4	54.4
130°	76.3	71.5	68.2	65.5	64.7	63.8	62.5	61.7	60.8	60.8
132.5°	84.4	79.7	75.8	72.4	71.1	70.3	68.5	67.7	66.8	66.8
135°	92.1	87.9	84.0	80.5	79.3	78.0	76.3	74.5	73.7	73.7
137.5°	98.1	95.1	91.7	88.7	87.4	86.1	84.4	82.6	81.4	81.9
140°	103.2	100.7	98.5	96.4	95.1	94.2	92.5	91.3	90.0	90.0
142.5°	108.0	105.8	103.7	102.0	101.5	101.1	99.9	98.5	97.7	97.7
145°	112.2	111.0	109.2	107.1	106.7	106.2	105.0	104.1	103.7	103.7
147.5°	113.6	114.0	113.6	112.2	111.8	111.4	110.6	109.7	109.2	109.2
150°	112.7	114.4	115.2	115.2	115.2	115.2	115.2	114.4	114.0	114.0
152.5°	110.1	112.7	114.4	115.7	116.1	116.6	116.6	117.0	116.6	116.6
155°	107.1	109.7	112.2	113.6	114.4	114.8	115.7	116.1	116.6	116.1
157.5°	103.7	105.8	107.5	110.1	111.0	111.8	112.7	113.6	114.0	113.6
160°	100.7	102.4	103.7	105.4	105.8	106.7	107.5	108.0	108.8	108.4
162.5°	97.7	99.0	100.2	101.1	102.0	102.4	103.2	103.7	104.1	103.7
165°	95.5	96.4	96.9	97.7	98.1	98.5	99.0	99.4	99.4	99.4
167.5°	93.0	93.9	94.2	94.7	95.1	95.5	95.5	96.0	96.0	96.0
170°	90.9	91.3	91.7	92.1	92.1	92.5	92.5	92.5	93.0	92.5
172.5°	89.1	89.1	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.1
175°	88.3	88.3	87.9	87.9	87.9	87.9	87.9	87.4	87.0	86.5
177.5°	87.9	87.4	87.4	87.0	87.0	87.0	86.5	86.1	85.7	85.3
180°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4

(END OF REPORT)