

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: P393839

Luminaire Tested: **I3-WL-20L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393839
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-20L835-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1900.1 lumens
Efficiency: N/A
Efficacy: 127.5 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

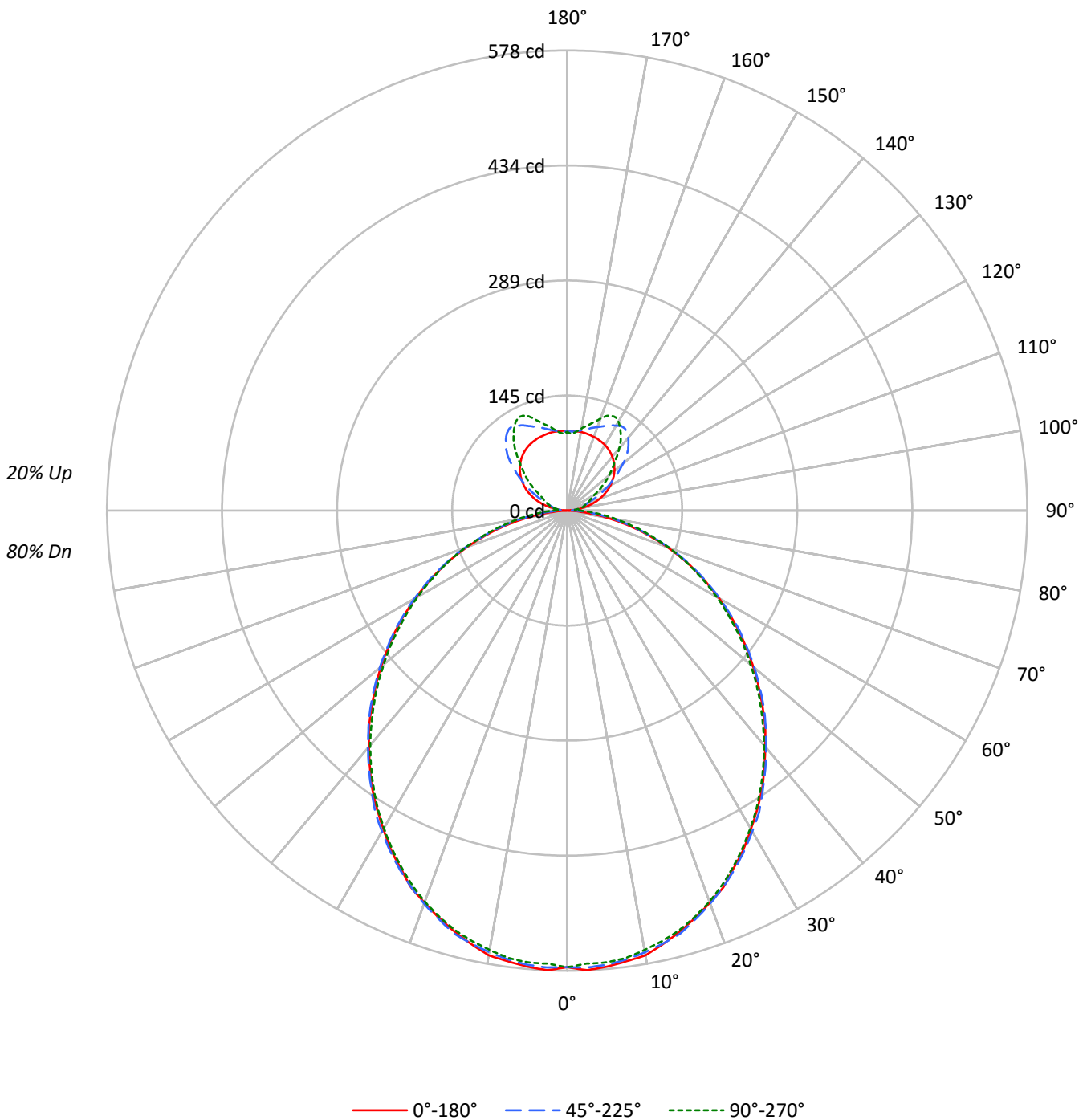
Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3152	3152	3152
5°	3161	3088	3054
10°	3142	3003	2954
15°	3079	2921	2849
20°	3018	2803	2726
25°	2946	2684	2590
30°	2861	2560	2451
35°	2782	2424	2307
40°	2682	2283	2158
45°	2586	2146	2000
50°	2484	1994	1841
55°	2376	1840	1679
60°	2256	1669	1512
65°	2117	1483	1332
70°	1919	1266	1143
75°	1655	1003	918
80°	1262	723	686
85°	658	433	464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	2.9
10°-20°	153.7	8.1
20°-30°	227.6	12.0
30°-40°	266.0	14.0
40°-50°	267.2	14.1
50°-60°	234.8	12.4
60°-70°	175.9	9.3
70°-80°	100.1	5.3
80°-90°	31.6	1.7
90°-100°	11.4	0.6
100°-110°	27.8	1.5
110°-120°	46.1	2.4
120°-130°	64.7	3.4
130°-140°	74.5	3.9
140°-150°	71.2	3.7
150°-160°	53.5	2.8
160°-170°	30.3	1.6
170°-180°	9.6	0.5
0°-30°	435.5	22.9
0°-40°	701.4	36.9
0°-60°	1203.4	63.3
0°-90°	1511.0	79.5
90°-120°	85.2	4.5
90°-150°	295.6	15.6
90°-180°	389.0	20.5
0°-180°	1900.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	575	569	573	571	570	55
15°	547	542	550	546	545	154
25°	495	494	497	495	494	228
35°	427	424	428	425	424	267
45°	347	346	349	346	343	268
55°	263	264	265	262	259	235
65°	178	178	179	178	176	175
75°	90	92	94	97	97	96
85°	16	20	28	34	35	20
90°	0	3	9	13	15	1
95°	8	8	8	9	10	9
105°	32	28	21	22	22	34
115°	53	66	41	33	32	53
125°	70	97	73	59	54	63
135°	84	106	108	90	84	64
145°	92	105	126	121	117	58
155°	97	103	117	130	132	45
165°	100	101	107	111	113	28
175°	100	100	100	100	98	10
180°	99	99	99	99	99	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	577.9	576.9	574.5	572.1	571.6	571.1	571.1	570.6	570.6	571.6	574.5
5°	575.0	574.5	572.1	569.6	569.2	569.2	568.7	568.7	568.7	569.6	572.6
7.5°	571.1	570.1	567.7	565.3	564.8	564.8	564.8	564.3	564.8	565.3	568.7
10°	567.2	566.7	564.3	561.4	560.4	560.4	559.9	559.0	559.0	559.9	563.3
12.5°	557.5	557.0	554.6	552.7	552.7	553.2	553.2	553.6	553.6	554.6	557.0
15°	547.3	546.8	544.4	542.5	542.5	542.5	542.0	542.0	542.5	545.4	549.8
17.5°	536.2	535.7	533.7	531.8	531.8	531.8	531.3	531.3	531.8	533.3	537.6
20°	524.0	523.6	521.6	519.7	519.7	519.7	519.2	519.7	519.7	521.6	525.5
22.5°	512.4	511.4	509.0	507.1	506.1	506.1	506.1	505.6	506.6	508.0	511.9
25°	495.4	494.9	494.0	492.5	493.5	494.0	493.0	492.0	492.0	494.0	497.4
27.5°	479.9	478.9	477.5	476.0	475.0	475.5	476.0	477.0	478.4	478.9	481.8
30°	461.9	461.4	460.0	458.0	458.5	459.0	459.0	459.0	460.0	464.4	465.3
32.5°	444.5	444.0	442.5	440.6	441.1	441.6	441.1	441.6	442.5	444.5	448.8
35°	427.0	426.0	424.6	424.1	423.6	423.6	423.6	424.1	424.6	426.0	428.4
37.5°	407.1	406.1	405.2	403.7	404.7	405.6	406.1	405.6	406.1	408.1	409.0
40°	387.2	386.7	385.8	384.8	385.3	385.8	385.3	386.7	387.7	388.7	389.1
42.5°	368.3	367.3	366.3	365.9	365.9	366.3	366.3	367.3	367.3	369.7	369.3
45°	346.9	346.4	346.0	346.0	346.4	346.4	346.4	346.9	347.4	348.9	349.4
47.5°	326.1	325.6	325.6	325.6	325.6	326.1	326.6	328.0	327.0	327.5	328.0
50°	305.2	304.7	304.7	304.7	305.7	305.7	306.7	307.1	307.6	306.7	307.1
52.5°	283.9	283.4	284.3	284.3	285.3	285.3	286.8	285.3	286.3	285.8	285.8
55°	263.0	262.5	263.5	263.0	264.0	264.0	264.9	265.4	264.9	264.9	264.9
57.5°	241.6	241.2	241.6	242.1	242.6	242.6	244.1	244.1	242.6	243.6	243.1
60°	220.3	219.8	220.3	220.8	221.3	221.3	221.7	220.8	221.7	222.2	221.7
62.5°	198.9	198.5	199.4	198.9	199.4	199.9	199.9	201.4	200.9	200.9	200.4
65°	177.6	177.1	177.1	177.1	177.6	178.1	178.6	179.0	179.0	179.5	179.0
67.5°	155.8	155.3	155.8	155.3	155.8	156.2	157.2	157.7	157.7	158.2	157.7
70°	133.4	133.9	133.4	133.9	134.4	134.9	135.4	136.3	136.3	136.3	136.3
72.5°	111.6	111.1	111.1	110.6	111.6	112.1	112.6	114.0	114.0	114.5	114.5
75°	90.3	89.3	89.8	89.3	91.2	91.7	91.7	93.2	93.6	94.6	94.1
77.5°	69.4	69.4	68.4	69.9	70.4	71.3	72.3	73.3	73.8	75.2	75.2
80°	49.5	49.5	49.0	50.0	51.9	52.4	53.9	54.3	55.8	56.8	57.3
82.5°	31.5	31.5	31.5	33.0	34.5	34.9	36.4	37.8	38.8	40.3	40.8
85°	15.5	16.5	16.5	18.4	19.4	20.4	20.9	22.8	24.3	26.2	27.7
87.5°	4.9	5.3	5.8	6.8	8.7	9.2	10.2	12.1	13.6	15.5	17.0
90°	0.5	0.5	1.0	1.5	2.4	2.9	3.9	4.9	6.3	7.8	8.7
92.5°	3.4	3.4	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.8	6.3
95°	8.2	13.1	7.8	7.3	8.2	8.2	8.7	8.2	8.2	8.2	8.2
97.5°	13.6	24.3	16.0	11.2	10.7	11.2	11.2	12.1	12.6	13.1	13.1
100°	19.9	30.6	28.1	18.4	15.0	14.6	14.6	14.6	15.0	15.5	16.0
102.5°	26.2	34.9	40.3	28.6	21.3	19.4	18.4	18.0	17.5	18.0	18.0
105°	32.5	39.3	49.5	38.8	30.6	27.7	24.7	21.3	20.9	20.9	20.9
107.5°	38.3	43.7	56.3	50.5	39.8	36.9	33.5	28.1	24.7	24.3	23.8
110°	43.7	48.0	61.1	60.2	50.0	45.6	42.7	36.9	32.0	28.6	27.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	48.5	52.4	64.5	68.4	61.1	55.8	51.4	45.6	40.3	35.9	32.5
115°	53.4	56.8	67.4	75.2	70.8	66.5	61.6	54.3	49.0	44.6	40.8
117.5°	58.2	61.1	70.4	80.1	79.1	76.2	72.3	63.6	57.3	52.9	48.5
120°	62.6	65.5	73.3	83.5	86.4	83.9	81.5	73.8	66.0	61.1	57.3
122.5°	66.5	68.9	76.2	86.4	91.7	91.2	88.8	83.5	75.7	69.9	65.0
125°	70.4	72.8	79.1	88.3	95.6	97.0	96.1	91.7	85.9	79.1	73.3
127.5°	74.2	76.2	82.0	90.3	98.5	101.4	101.9	99.0	94.6	88.8	82.5
130°	77.6	79.6	84.4	91.7	100.4	103.8	105.8	105.3	101.9	98.0	91.7
132.5°	80.5	82.0	86.9	93.2	101.4	105.3	108.2	110.6	108.2	105.3	100.9
135°	83.5	84.9	88.8	94.6	101.9	105.8	109.7	113.5	114.0	111.6	108.2
137.5°	85.9	86.9	90.7	95.6	101.9	105.8	109.7	115.0	117.9	116.9	114.0
140°	88.3	89.3	92.2	97.0	102.4	105.8	109.2	115.5	119.4	120.8	119.4
142.5°	90.3	91.2	93.6	98.0	102.4	105.3	108.7	114.5	119.8	122.8	123.7
145°	92.2	92.7	95.1	98.5	102.4	104.8	107.7	113.5	118.9	123.2	126.2
147.5°	93.6	94.1	95.6	99.0	102.4	104.3	106.7	111.6	116.9	121.8	126.2
150°	95.1	95.1	96.6	99.0	102.4	103.8	105.8	110.1	114.5	119.4	123.2
152.5°	96.1	96.1	97.5	99.5	101.9	103.4	105.3	108.7	112.6	116.9	120.8
155°	97.0	97.0	98.0	99.5	101.9	102.9	104.3	107.2	110.6	114.0	117.4
157.5°	98.0	98.0	98.5	100.0	101.4	102.4	103.8	106.3	108.7	111.6	114.5
160°	98.5	98.5	99.0	100.0	100.9	101.9	102.9	104.8	107.2	109.2	111.6
162.5°	99.0	99.0	99.5	100.0	100.9	101.4	101.9	103.8	105.3	107.2	109.2
165°	99.5	99.5	99.5	100.0	100.4	100.9	101.4	102.4	103.8	105.3	106.7
167.5°	100.0	100.0	100.0	100.0	100.4	100.4	100.9	101.4	102.4	103.4	104.3
170°	100.4	100.0	100.0	100.4	100.0	100.0	100.4	100.9	100.9	101.9	102.4
172.5°	100.4	100.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.4	100.9
175°	100.4	100.4	100.0	100.0	100.0	99.5	99.5	99.5	99.5	99.5	99.5
177.5°	100.4	100.4	100.0	100.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5
180°	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
2.5°	577.4	575.0	574.0	573.5	573.0	572.6	571.6	570.6	569.6	569.6
5°	575.0	572.6	571.6	571.1	570.6	570.1	569.6	569.6	569.6	569.6
7.5°	571.1	568.7	567.7	567.2	567.2	566.7	566.7	566.7	566.3	566.7
10°	565.3	562.9	562.4	561.9	561.4	560.4	560.4	560.4	559.9	560.4
12.5°	558.0	555.6	555.1	554.6	554.1	553.6	553.6	553.2	553.2	553.6
15°	550.7	547.3	546.4	546.4	545.9	545.4	545.9	545.4	545.4	545.4
17.5°	540.1	538.6	537.1	536.2	535.7	535.2	535.2	534.7	534.7	534.7
20°	526.0	526.0	526.0	523.6	523.1	522.6	522.6	522.6	522.6	522.6
22.5°	512.4	510.0	511.9	510.5	509.5	508.5	509.0	509.0	509.0	509.0
25°	497.4	495.4	495.9	496.4	495.4	494.0	494.0	494.0	494.0	493.5
27.5°	481.3	479.9	479.4	479.9	480.9	479.9	478.4	477.0	477.5	477.5
30°	463.9	463.4	462.9	461.9	462.9	463.4	461.0	460.5	460.5	460.5
32.5°	446.4	445.9	444.5	443.5	444.0	444.9	444.0	443.0	443.0	443.0
35°	428.9	427.0	425.5	425.1	425.1	426.0	425.5	424.1	424.1	424.1
37.5°	408.6	409.0	406.6	406.1	406.1	406.1	407.1	404.7	405.2	404.7
40°	388.7	389.1	387.7	386.2	386.7	385.8	387.2	384.8	384.8	384.8
42.5°	368.8	367.8	368.3	365.4	365.9	365.9	366.3	364.9	364.4	363.9
45°	348.4	347.4	346.9	345.5	345.5	345.0	345.0	343.1	343.1	343.1
47.5°	327.0	326.6	325.6	324.6	324.6	324.1	323.2	322.7	322.2	322.2
50°	306.7	305.2	303.7	304.2	303.7	303.3	302.3	301.8	301.3	300.8
52.5°	284.8	284.8	282.9	282.9	282.9	282.4	281.4	280.5	280.5	280.0
55°	263.5	263.0	261.5	261.0	261.5	261.0	260.1	259.1	259.1	258.6
57.5°	242.1	241.2	240.7	240.7	240.2	240.2	238.7	237.8	238.2	237.8
60°	220.3	220.3	219.8	219.3	219.3	218.8	217.4	217.4	217.4	216.9
62.5°	199.4	199.4	198.5	198.0	198.5	198.0	197.5	197.0	196.5	196.0
65°	177.6	178.1	177.1	177.6	177.6	176.6	176.6	176.1	176.1	175.6
67.5°	157.2	157.2	156.7	156.7	157.2	156.7	156.7	156.2	156.2	155.8
70°	136.3	137.3	136.8	136.8	136.8	136.3	136.3	136.3	135.9	136.3
72.5°	115.5	115.5	115.5	115.5	115.5	116.0	116.0	116.0	116.0	115.5
75°	96.1	96.6	96.1	96.6	97.0	97.0	97.0	97.0	97.5	97.0
77.5°	77.2	77.6	77.6	78.6	78.6	78.6	79.1	79.1	79.1	79.1
80°	59.2	59.7	60.2	61.1	61.1	62.1	62.6	62.6	62.6	62.6
82.5°	42.7	44.2	44.6	46.1	46.6	46.6	47.6	48.0	48.0	48.0
85°	29.6	31.1	32.0	33.0	34.0	34.0	34.9	34.9	35.4	35.4
87.5°	18.4	19.9	20.9	22.3	22.8	23.3	23.8	24.3	24.7	24.7
90°	10.2	11.2	12.1	13.1	13.1	13.6	14.1	14.6	15.0	15.0
92.5°	7.3	7.8	8.7	9.2	9.2	9.7	10.2	10.2	10.7	10.7
95°	8.2	8.7	8.7	9.2	9.2	9.2	9.7	9.7	9.7	9.7
97.5°	12.6	12.6	12.6	12.1	12.1	12.1	12.1	12.1	12.1	12.1
100°	16.5	17.0	17.0	17.0	17.5	17.5	17.5	17.5	17.0	17.0
102.5°	18.4	18.9	19.4	19.9	19.9	19.9	20.4	20.4	20.4	20.4
105°	20.9	20.9	21.3	21.8	21.8	21.8	22.3	22.3	22.3	22.3
107.5°	23.8	23.8	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
110°	27.2	27.2	27.2	26.7	27.2	26.7	26.7	26.7	26.7	26.7



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CATALOG NUMBER: I3-WL-20L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	31.1	30.6	30.6	30.1	30.1	30.1	29.6	29.6	29.6	29.6
115°	37.4	34.9	34.0	33.0	33.0	33.0	32.5	32.5	32.5	32.5
117.5°	45.1	41.7	39.8	37.8	37.4	36.9	35.9	35.9	35.4	35.4
120°	53.4	50.0	47.1	44.6	43.7	43.2	41.7	40.8	39.8	39.8
122.5°	61.1	57.7	54.8	52.4	51.4	50.5	49.0	48.0	47.1	47.1
125°	68.9	65.5	62.6	60.2	58.7	57.7	56.3	55.3	54.3	54.3
127.5°	77.2	72.8	69.9	67.4	66.0	65.5	63.6	62.6	61.6	61.6
130°	86.4	81.0	77.2	74.2	73.3	72.3	70.8	69.9	68.9	68.9
132.5°	95.6	90.3	85.9	82.0	80.5	79.6	77.6	76.7	75.7	75.7
135°	104.3	99.5	95.1	91.2	89.8	88.3	86.4	84.4	83.5	83.5
137.5°	111.1	107.7	103.8	100.4	99.0	97.5	95.6	93.6	92.2	92.7
140°	116.9	114.0	111.6	109.2	107.7	106.7	104.8	103.4	101.9	101.9
142.5°	122.3	119.8	117.4	115.5	115.0	114.5	113.1	111.6	110.6	110.6
145°	127.1	125.7	123.7	121.3	120.8	120.3	118.9	117.9	117.4	117.4
147.5°	128.6	129.1	128.6	127.1	126.6	126.2	125.2	124.2	123.7	123.7
150°	127.6	129.6	130.5	130.5	130.5	130.5	130.5	129.6	129.1	129.1
152.5°	124.7	127.6	129.6	131.0	131.5	132.0	132.0	132.5	132.0	132.0
155°	121.3	124.2	127.1	128.6	129.6	130.0	131.0	131.5	132.0	131.5
157.5°	117.4	119.8	121.8	124.7	125.7	126.6	127.6	128.6	129.1	128.6
160°	114.0	116.0	117.4	119.4	119.8	120.8	121.8	122.3	123.2	122.8
162.5°	110.6	112.1	113.5	114.5	115.5	116.0	116.9	117.4	117.9	117.4
165°	108.2	109.2	109.7	110.6	111.1	111.6	112.1	112.6	112.6	112.6
167.5°	105.3	106.3	106.7	107.2	107.7	108.2	108.2	108.7	108.7	108.7
170°	102.9	103.4	103.8	104.3	104.3	104.8	104.8	104.8	105.3	104.8
172.5°	100.9	100.9	100.9	101.4	101.4	101.4	101.4	101.4	101.4	100.9
175°	100.0	100.0	99.5	99.5	99.5	99.5	99.5	99.0	98.5	98.0
177.5°	99.5	99.0	99.0	98.5	98.5	98.5	98.0	97.5	97.0	96.6
180°	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

(END OF REPORT)