

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: P393843

Luminaire Tested: **I3-WL-30L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393843  
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-30L840-1D-UNV-STD-W-4  
Description: CORELITE I3, DOWNLIGHT TRAY  
3000 LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

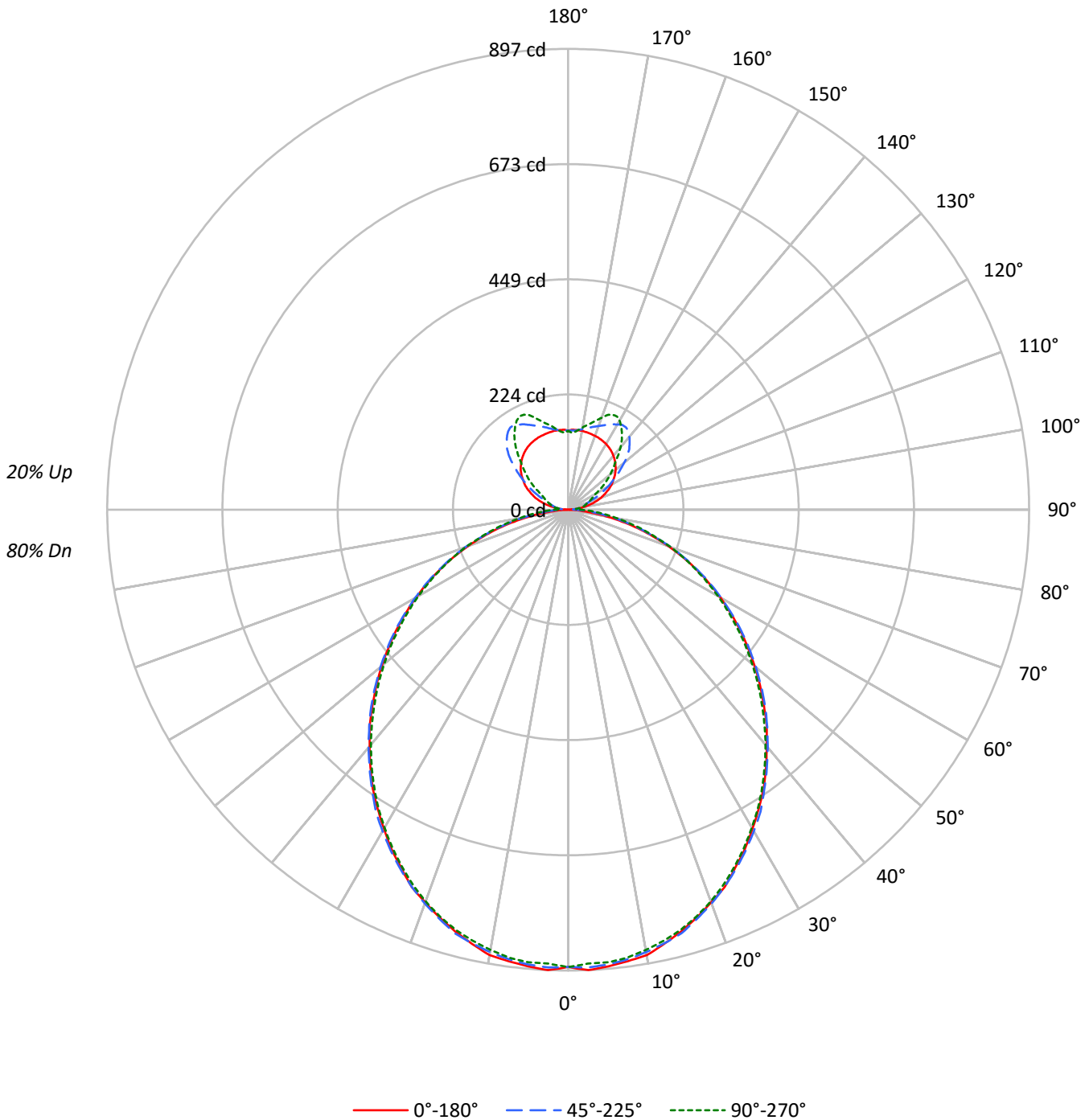
Lumens per Lamp: N/A  
Luminaire Lumens: 2949.3 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 23.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	4893	4893	4893
5°	4906	4792	4740
10°	4877	4662	4586
15°	4780	4533	4422
20°	4685	4350	4231
25°	4573	4166	4021
30°	4442	3974	3804
35°	4319	3762	3581
40°	4164	3543	3348
45°	4015	3330	3104
50°	3855	3096	2858
55°	3688	2856	2606
60°	3500	2591	2347
65°	3286	2302	2067
70°	2980	1965	1775
75°	2568	1558	1425
80°	1958	1122	1064
85°	1023	670	721



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	2.9
10°-20°	238.6	8.1
20°-30°	353.2	12.0
30°-40°	412.8	14.0
40°-50°	414.7	14.1
50°-60°	364.5	12.4
60°-70°	273.1	9.3
70°-80°	155.3	5.3
80°-90°	49.0	1.7
90°-100°	17.7	0.6
100°-110°	43.1	1.5
110°-120°	71.6	2.4
120°-130°	100.4	3.4
130°-140°	115.7	3.9
140°-150°	110.5	3.7
150°-160°	83.1	2.8
160°-170°	47.0	1.6
170°-180°	14.9	0.5
0°-30°	675.9	22.9
0°-40°	1088.8	36.9
0°-60°	1867.9	63.3
0°-90°	2345.4	79.5
90°-120°	132.3	4.5
90°-150°	458.9	15.6
90°-180°	604.0	20.5
0°-180°	2949.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	892	883	889	886	884	85
15°	850	842	853	847	846	240
25°	769	767	772	769	766	354
35°	663	658	665	660	658	414
45°	538	538	542	536	532	416
55°	408	410	411	406	401	365
65°	276	276	278	276	273	272
75°	140	142	146	151	151	148
85°	24	32	43	53	55	31
90°	1	4	14	20	23	2
95°	13	13	13	14	15	14
105°	50	43	32	34	35	53
115°	83	103	63	51	50	82
125°	109	151	114	91	84	98
135°	130	164	168	139	130	100
145°	143	163	196	188	182	90
155°	151	160	182	201	204	70
165°	154	157	166	172	175	44
175°	156	154	154	154	152	15
180°	154	154	154	154	154	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2
2.5°	897.0	895.5	891.7	888.0	887.2	886.5	886.5	885.7	885.7	887.2	891.7
5°	892.5	891.7	888.0	884.2	883.4	883.4	882.7	882.7	882.7	884.2	888.7
7.5°	886.5	884.9	881.2	877.4	876.7	876.7	876.7	875.9	876.7	877.4	882.7
10°	880.4	879.7	875.9	871.4	869.9	869.9	869.1	867.6	867.6	869.1	874.4
12.5°	865.4	864.6	860.8	857.8	857.8	858.6	858.6	859.3	859.3	860.8	864.6
15°	849.6	848.8	845.0	842.0	842.0	842.0	841.3	841.3	842.0	846.5	853.3
17.5°	832.2	831.5	828.5	825.5	825.5	825.5	824.7	824.7	825.5	827.7	834.5
20°	813.4	812.6	809.6	806.6	806.6	806.6	805.9	806.6	806.6	809.6	815.7
22.5°	795.3	793.8	790.1	787.0	785.5	785.5	785.5	784.8	786.3	788.5	794.6
25°	769.0	768.2	766.7	764.4	766.0	766.7	765.2	763.7	763.7	766.7	772.0
27.5°	744.9	743.4	741.1	738.8	737.3	738.1	738.8	740.3	742.6	743.4	747.9
30°	717.0	716.2	714.0	711.0	711.7	712.5	712.5	712.5	714.0	720.8	722.3
32.5°	689.9	689.1	686.9	683.9	684.6	685.4	684.6	685.4	686.9	689.9	696.7
35°	662.8	661.3	659.0	658.3	657.5	657.5	657.5	658.3	659.0	661.3	665.0
37.5°	631.9	630.4	628.9	626.6	628.1	629.6	630.4	629.6	630.4	633.4	634.9
40°	601.0	600.3	598.8	597.2	598.0	598.8	598.0	600.3	601.8	603.3	604.0
42.5°	571.6	570.1	568.6	567.9	567.9	568.6	568.6	570.1	570.1	573.9	573.1
45°	538.5	537.7	537.0	537.0	537.7	537.7	537.7	538.5	539.3	541.5	542.3
47.5°	506.1	505.4	505.4	505.4	505.4	506.1	506.9	509.1	507.6	508.4	509.1
50°	473.7	473.0	473.0	473.0	474.5	474.5	476.0	476.7	477.5	476.0	476.7
52.5°	440.6	439.8	441.3	441.3	442.9	442.9	445.1	442.9	444.4	443.6	443.6
55°	408.2	407.5	409.0	408.2	409.7	409.7	411.2	412.0	411.2	411.2	411.2
57.5°	375.1	374.3	375.1	375.8	376.6	376.6	378.8	378.8	376.6	378.1	377.3
60°	341.9	341.2	341.9	342.7	343.4	343.4	344.2	342.7	344.2	344.9	344.2
62.5°	308.8	308.0	309.5	308.8	309.5	310.3	310.3	312.6	311.8	311.8	311.1
65°	275.7	274.9	274.9	274.9	275.7	276.4	277.2	277.9	277.9	278.7	277.9
67.5°	241.8	241.0	241.8	241.0	241.8	242.5	244.0	244.8	244.8	245.5	244.8
70°	207.1	207.9	207.1	207.9	208.6	209.4	210.1	211.6	211.6	211.6	211.6
72.5°	173.2	172.5	172.5	171.7	173.2	174.0	174.7	177.0	177.0	177.7	177.7
75°	140.1	138.6	139.3	138.6	141.6	142.3	142.3	144.6	145.4	146.9	146.1
77.5°	107.7	107.7	106.2	108.5	109.2	110.7	112.2	113.7	114.5	116.7	116.7
80°	76.8	76.8	76.1	77.6	80.6	81.3	83.6	84.4	86.6	88.1	88.9
82.5°	49.0	49.0	49.0	51.2	53.5	54.2	56.5	58.7	60.3	62.5	63.3
85°	24.1	25.6	25.6	28.6	30.1	31.6	32.4	35.4	37.7	40.7	42.9
87.5°	7.5	8.3	9.0	10.5	13.6	14.3	15.8	18.8	21.1	24.1	26.4
90°	0.8	0.8	1.5	2.3	3.8	4.5	6.0	7.5	9.8	12.1	13.6
92.5°	5.3	5.3	6.0	6.0	6.0	6.0	6.0	6.8	7.5	9.0	9.8
95°	12.8	20.3	12.1	11.3	12.8	12.8	13.6	12.8	12.8	12.8	12.8
97.5°	21.1	37.7	24.9	17.3	16.6	17.3	17.3	18.8	19.6	20.3	20.3
100°	30.9	47.4	43.7	28.6	23.3	22.6	22.6	22.6	23.3	24.1	24.9
102.5°	40.7	54.2	62.5	44.4	33.1	30.1	28.6	27.9	27.1	27.9	27.9
105°	50.5	61.0	76.8	60.3	47.4	42.9	38.4	33.1	32.4	32.4	32.4
107.5°	59.5	67.8	87.4	78.3	61.8	57.2	52.0	43.7	38.4	37.7	36.9
110°	67.8	74.6	94.9	93.4	77.6	70.8	66.3	57.2	49.7	44.4	42.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	75.3	81.3	100.2	106.2	94.9	86.6	79.8	70.8	62.5	55.7	50.5
115°	82.8	88.1	104.7	116.7	110.0	103.2	95.6	84.4	76.1	69.3	63.3
117.5°	90.4	94.9	109.2	124.3	122.8	118.2	112.2	98.7	88.9	82.1	75.3
120°	97.2	101.7	113.7	129.5	134.1	130.3	126.5	114.5	102.4	94.9	88.9
122.5°	103.2	106.9	118.2	134.1	142.3	141.6	137.8	129.5	117.5	108.5	100.9
125°	109.2	113.0	122.8	137.1	148.4	150.6	149.1	142.3	133.3	122.8	113.7
127.5°	115.2	118.2	127.3	140.1	152.9	157.4	158.2	153.6	146.9	137.8	128.0
130°	120.5	123.5	131.0	142.3	155.9	161.2	164.2	163.4	158.2	152.1	142.3
132.5°	125.0	127.3	134.8	144.6	157.4	163.4	168.0	171.7	168.0	163.4	156.7
135°	129.5	131.8	137.8	146.9	158.2	164.2	170.2	176.2	177.0	173.2	168.0
137.5°	133.3	134.8	140.8	148.4	158.2	164.2	170.2	178.5	183.0	181.5	177.0
140°	137.1	138.6	143.1	150.6	158.9	164.2	169.5	179.2	185.3	187.5	185.3
142.5°	140.1	141.6	145.4	152.1	158.9	163.4	168.7	177.7	186.0	190.5	192.1
145°	143.1	143.9	147.6	152.9	158.9	162.7	167.2	176.2	184.5	191.3	195.8
147.5°	145.4	146.1	148.4	153.6	158.9	161.9	165.7	173.2	181.5	189.0	195.8
150°	147.6	147.6	149.9	153.6	158.9	161.2	164.2	171.0	177.7	185.3	191.3
152.5°	149.1	149.1	151.4	154.4	158.2	160.4	163.4	168.7	174.7	181.5	187.5
155°	150.6	150.6	152.1	154.4	158.2	159.7	161.9	166.4	171.7	177.0	182.3
157.5°	152.1	152.1	152.9	155.1	157.4	158.9	161.2	164.9	168.7	173.2	177.7
160°	152.9	152.9	153.6	155.1	156.7	158.2	159.7	162.7	166.4	169.5	173.2
162.5°	153.6	153.6	154.4	155.1	156.7	157.4	158.2	161.2	163.4	166.4	169.5
165°	154.4	154.4	154.4	155.1	155.9	156.7	157.4	158.9	161.2	163.4	165.7
167.5°	155.1	155.1	155.1	155.1	155.9	155.9	156.7	157.4	158.9	160.4	161.9
170°	155.9	155.1	155.1	155.9	155.1	155.1	155.9	156.7	156.7	158.2	158.9
172.5°	155.9	155.9	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.9	156.7
175°	155.9	155.9	155.1	155.1	155.1	154.4	154.4	154.4	154.4	154.4	154.4
177.5°	155.9	155.9	155.1	155.1	154.4	154.4	154.4	154.4	154.4	154.4	154.4
180°	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2	890.2
2.5°	896.2	892.5	891.0	890.2	889.5	888.7	887.2	885.7	884.2	884.2
5°	892.5	888.7	887.2	886.5	885.7	884.9	884.2	884.2	884.2	884.2
7.5°	886.5	882.7	881.2	880.4	880.4	879.7	879.7	879.7	878.9	879.7
10°	877.4	873.7	872.9	872.1	871.4	869.9	869.9	869.9	869.1	869.9
12.5°	866.1	862.4	861.6	860.8	860.1	859.3	859.3	858.6	858.6	859.3
15°	854.8	849.6	848.0	848.0	847.3	846.5	847.3	846.5	846.5	846.5
17.5°	838.3	836.0	833.7	832.2	831.5	830.7	830.7	830.0	830.0	830.0
20°	816.4	816.4	816.4	812.6	811.9	811.1	811.1	811.1	811.1	811.1
22.5°	795.3	791.6	794.6	792.3	790.8	789.3	790.1	790.1	790.1	790.1
25°	772.0	769.0	769.7	770.5	769.0	766.7	766.7	766.7	766.7	766.0
27.5°	747.1	744.9	744.1	744.9	746.4	744.9	742.6	740.3	741.1	741.1
30°	720.0	719.3	718.5	717.0	718.5	719.3	715.5	714.7	714.7	714.7
32.5°	692.9	692.1	689.9	688.4	689.1	690.6	689.1	687.6	687.6	687.6
35°	665.8	662.8	660.5	659.8	659.8	661.3	660.5	658.3	658.3	658.3
37.5°	634.2	634.9	631.1	630.4	630.4	630.4	631.9	628.1	628.9	628.1
40°	603.3	604.0	601.8	599.5	600.3	598.8	601.0	597.2	597.2	597.2
42.5°	572.4	570.9	571.6	567.1	567.9	567.9	568.6	566.4	565.6	564.9
45°	540.8	539.3	538.5	536.2	536.2	535.5	535.5	532.5	532.5	532.5
47.5°	507.6	506.9	505.4	503.9	503.9	503.1	501.6	500.8	500.1	500.1
50°	476.0	473.7	471.5	472.2	471.5	470.7	469.2	468.5	467.7	467.0
52.5°	442.1	442.1	439.1	439.1	439.1	438.3	436.8	435.3	435.3	434.6
55°	409.0	408.2	405.9	405.2	405.9	405.2	403.7	402.2	402.2	401.4
57.5°	375.8	374.3	373.6	373.6	372.8	372.8	370.5	369.0	369.8	369.0
60°	341.9	341.9	341.2	340.4	340.4	339.7	337.4	337.4	337.4	336.7
62.5°	309.5	309.5	308.0	307.3	308.0	307.3	306.5	305.8	305.0	304.3
65°	275.7	276.4	274.9	275.7	275.7	274.1	274.1	273.4	273.4	272.6
67.5°	244.0	244.0	243.3	243.3	244.0	243.3	243.3	242.5	242.5	241.8
70°	211.6	213.1	212.4	212.4	212.4	211.6	211.6	211.6	210.9	211.6
72.5°	179.2	179.2	179.2	179.2	179.2	180.0	180.0	180.0	180.0	179.2
75°	149.1	149.9	149.1	149.9	150.6	150.6	150.6	150.6	151.4	150.6
77.5°	119.8	120.5	120.5	122.0	122.0	122.0	122.8	122.8	122.8	122.8
80°	91.9	92.6	93.4	94.9	94.9	96.4	97.2	97.2	97.2	97.2
82.5°	66.3	68.5	69.3	71.5	72.3	72.3	73.8	74.6	74.6	74.6
85°	45.9	48.2	49.7	51.2	52.7	52.7	54.2	54.2	55.0	55.0
87.5°	28.6	30.9	32.4	34.6	35.4	36.2	36.9	37.7	38.4	38.4
90°	15.8	17.3	18.8	20.3	20.3	21.1	21.8	22.6	23.3	23.3
92.5°	11.3	12.1	13.6	14.3	14.3	15.1	15.8	15.8	16.6	16.6
95°	12.8	13.6	13.6	14.3	14.3	14.3	15.1	15.1	15.1	15.1
97.5°	19.6	19.6	19.6	18.8	18.8	18.8	18.8	18.8	18.8	18.8
100°	25.6	26.4	26.4	26.4	27.1	27.1	27.1	27.1	26.4	26.4
102.5°	28.6	29.4	30.1	30.9	30.9	30.9	31.6	31.6	31.6	31.6
105°	32.4	32.4	33.1	33.9	33.9	33.9	34.6	34.6	34.6	34.6
107.5°	36.9	36.9	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
110°	42.2	42.2	42.2	41.4	42.2	41.4	41.4	41.4	41.4	41.4





TEST NUMBER: P393843

CATALOG NUMBER: I3-WL-30L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	48.2	47.4	47.4	46.7	46.7	46.7	45.9	45.9	45.9	45.9
115°	58.0	54.2	52.7	51.2	51.2	51.2	50.5	50.5	50.5	50.5
117.5°	70.0	64.8	61.8	58.7	58.0	57.2	55.7	55.7	55.0	55.0
120°	82.8	77.6	73.1	69.3	67.8	67.0	64.8	63.3	61.8	61.8
122.5°	94.9	89.6	85.1	81.3	79.8	78.3	76.1	74.6	73.1	73.1
125°	106.9	101.7	97.2	93.4	91.1	89.6	87.4	85.9	84.4	84.4
127.5°	119.8	113.0	108.5	104.7	102.4	101.7	98.7	97.2	95.6	95.6
130°	134.1	125.8	119.8	115.2	113.7	112.2	110.0	108.5	106.9	106.9
132.5°	148.4	140.1	133.3	127.3	125.0	123.5	120.5	119.0	117.5	117.5
135°	161.9	154.4	147.6	141.6	139.3	137.1	134.1	131.0	129.5	129.5
137.5°	172.5	167.2	161.2	155.9	153.6	151.4	148.4	145.4	143.1	143.9
140°	181.5	177.0	173.2	169.5	167.2	165.7	162.7	160.4	158.2	158.2
142.5°	189.8	186.0	182.3	179.2	178.5	177.7	175.5	173.2	171.7	171.7
145°	197.3	195.1	192.1	188.3	187.5	186.8	184.5	183.0	182.3	182.3
147.5°	199.6	200.3	199.6	197.3	196.6	195.8	194.3	192.8	192.1	192.1
150°	198.1	201.1	202.6	202.6	202.6	202.6	202.6	201.1	200.3	200.3
152.5°	193.6	198.1	201.1	203.4	204.1	204.9	204.9	205.6	204.9	204.9
155°	188.3	192.8	197.3	199.6	201.1	201.8	203.4	204.1	204.9	204.1
157.5°	182.3	186.0	189.0	193.6	195.1	196.6	198.1	199.6	200.3	199.6
160°	177.0	180.0	182.3	185.3	186.0	187.5	189.0	189.8	191.3	190.5
162.5°	171.7	174.0	176.2	177.7	179.2	180.0	181.5	182.3	183.0	182.3
165°	168.0	169.5	170.2	171.7	172.5	173.2	174.0	174.7	174.7	174.7
167.5°	163.4	164.9	165.7	166.4	167.2	168.0	168.0	168.7	168.7	168.7
170°	159.7	160.4	161.2	161.9	161.9	162.7	162.7	162.7	163.4	162.7
172.5°	156.7	156.7	156.7	157.4	157.4	157.4	157.4	157.4	157.4	156.7
175°	155.1	155.1	154.4	154.4	154.4	154.4	154.4	153.6	152.9	152.1
177.5°	154.4	153.6	153.6	152.9	152.9	152.9	152.1	151.4	150.6	149.9
180°	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6	153.6

(END OF REPORT)