

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: P393789

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

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-CL-30L840-1D-UNV-STD-W-4  
Description: CORELITE I3, CLEAR TOP COVER  
3000 LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

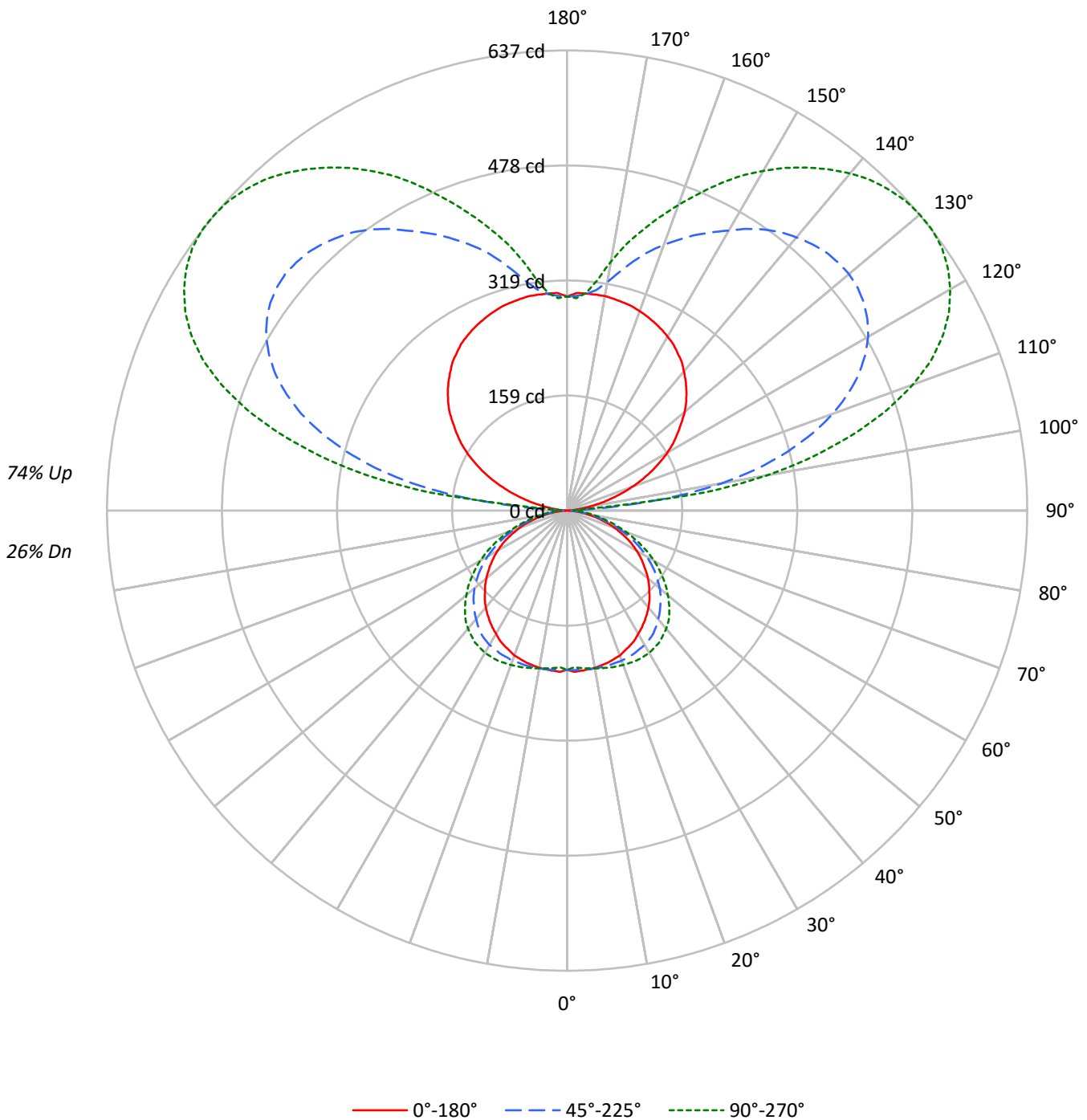
Lumens per Lamp: N/A  
Luminaire Lumens: 2902.9 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 19.7  
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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1211	1211	1211
5°	1224	1192	1172
10°	1225	1183	1169
15°	1226	1178	1175
20°	1229	1179	1186
25°	1226	1180	1201
30°	1220	1182	1210
35°	1217	1176	1211
40°	1212	1150	1196
45°	1200	1123	1166
50°	1189	1086	1114
55°	1164	1031	1050
60°	1135	958	969
65°	1089	861	859
70°	1012	733	727
75°	874	583	584
80°	678	414	428
85°	399	256	287



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.1	0.7
10°-20°	62.6	2.2
20°-30°	100.4	3.5
30°-40°	128.4	4.4
40°-50°	140.0	4.8
50°-60°	131.2	4.5
60°-70°	101.8	3.5
70°-80°	58.3	2.0
80°-90°	18.7	0.6
90°-100°	74.9	2.6
100°-110°	291.0	10.0
110°-120°	396.2	13.6
120°-130°	411.3	14.2
130°-140°	364.8	12.6
140°-150°	283.1	9.8
150°-160°	188.9	6.5
160°-170°	100.7	3.5
170°-180°	29.5	1.0
0°-30°	184.1	6.3
0°-40°	312.5	10.8
0°-60°	583.7	20.1
0°-90°	762.4	26.3
90°-120°	762.2	26.3
90°-150°	1821.4	62.7
90°-180°	2140.0	73.7
0°-180°	2902.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	220	220	220	220	220	
5°	223	220	221	220	219	21
15°	218	217	222	225	225	62
25°	206	208	219	226	229	95
35°	187	191	208	219	223	117
45°	161	168	183	194	200	124
55°	129	136	148	159	162	115
65°	91	95	104	111	113	90
75°	48	50	55	60	62	51
85°	9	11	16	21	22	11
90°	1	2	6	8	9	1
95°	9	53	73	15	14	12
105°	62	187	316	376	412	66
115°	129	288	445	523	574	127
125°	187	340	502	589	634	167
135°	234	358	506	594	629	180
145°	266	358	475	552	580	167
155°	287	338	421	477	499	132
165°	298	311	358	391	402	84
175°	302	300	301	302	302	29
180°	296	296	296	296	296	



TEST NUMBER: P393789

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3
2.5°	223.4	222.6	222.6	221.1	221.1	220.3	220.3	220.3	220.3	220.3	221.1
5°	222.6	222.6	221.8	221.1	221.1	220.3	220.3	220.3	220.3	220.3	221.1
7.5°	221.8	221.8	221.1	220.3	220.3	220.3	220.3	220.3	220.3	220.3	221.8
10°	221.1	221.1	220.3	219.5	219.5	219.5	219.5	220.3	220.3	220.3	221.8
12.5°	219.5	218.7	218.7	217.9	217.9	217.9	218.7	218.7	219.5	220.3	221.8
15°	217.9	217.9	217.2	216.4	217.2	217.2	217.2	217.9	218.7	219.5	221.8
17.5°	215.6	215.6	214.8	214.8	214.8	215.6	215.6	216.4	217.9	219.5	221.1
20°	213.3	212.5	212.5	212.5	213.3	213.3	214.0	215.6	216.4	218.7	221.1
22.5°	209.3	210.1	209.3	209.3	210.1	210.9	211.7	213.3	214.8	217.2	219.5
25°	206.2	206.2	206.2	206.2	207.8	207.8	209.3	210.9	213.3	215.6	218.7
27.5°	202.3	202.3	202.3	203.1	203.9	204.7	205.4	207.8	210.1	213.3	216.4
30°	196.9	196.9	196.9	196.9	199.2	200.0	201.5	204.7	207.0	210.9	214.8
32.5°	192.2	192.2	192.2	192.9	194.5	195.3	196.9	200.8	203.9	207.8	211.7
35°	186.7	186.7	187.5	187.5	189.8	190.6	192.2	195.3	198.4	203.1	207.8
37.5°	181.2	181.2	182.0	182.8	184.4	185.9	187.5	190.6	193.7	197.6	202.3
40°	175.0	175.0	175.8	176.5	178.9	180.4	182.0	185.1	188.3	192.2	196.1
42.5°	168.7	168.7	169.5	170.3	172.6	174.2	175.8	179.7	182.8	186.7	189.8
45°	160.9	161.7	162.5	164.0	166.4	167.9	169.5	172.6	176.5	179.7	182.8
47.5°	153.9	154.7	155.4	157.0	159.4	160.9	162.5	165.6	168.7	171.9	175.8
50°	146.1	146.9	147.6	149.2	151.5	153.1	154.7	157.8	160.9	163.3	167.2
52.5°	137.5	138.3	139.0	140.6	143.7	144.5	146.1	149.2	151.5	154.7	157.8
55°	128.9	129.7	130.5	132.0	134.4	135.9	136.7	139.8	142.2	145.3	148.4
57.5°	120.3	121.1	121.9	123.4	125.0	126.5	127.3	129.7	132.8	135.1	138.3
60°	110.9	111.7	112.5	113.3	115.6	116.4	117.2	119.5	121.9	125.0	127.3
62.5°	101.6	101.6	102.3	103.1	105.5	106.2	107.0	108.6	111.7	113.3	115.6
65°	91.4	91.4	92.2	93.0	94.5	95.3	96.1	97.6	100.0	101.6	103.9
67.5°	80.5	80.5	81.2	82.0	83.6	84.4	84.4	86.7	88.3	89.8	91.4
70°	70.3	70.3	71.1	71.1	71.9	72.6	73.4	75.0	75.8	78.1	78.9
72.5°	59.4	59.4	59.4	59.4	60.9	60.9	61.7	63.3	64.1	65.6	67.2
75°	47.7	47.7	48.4	48.4	49.2	50.0	50.8	51.6	53.1	53.9	54.7
77.5°	37.5	36.7	37.5	38.3	39.1	39.1	39.8	40.6	41.4	43.0	43.7
80°	26.6	26.6	26.6	27.3	28.1	28.1	28.9	29.7	30.5	32.0	32.8
82.5°	17.2	17.2	18.0	18.0	18.7	19.5	19.5	20.3	21.1	22.7	23.4
85°	9.4	9.4	9.4	10.2	10.9	10.9	11.7	12.5	14.1	14.8	16.4
87.5°	3.1	3.1	3.9	4.7	5.5	5.5	6.2	7.0	7.8	9.4	10.2
90°	0.8	0.8	0.8	1.6	1.6	2.3	2.3	3.1	3.9	4.7	5.5
92.5°	3.1	5.5	8.6	12.5	11.7	12.5	8.6	5.5	5.5	5.5	6.2
95°	9.4	14.1	22.7	35.9	46.9	53.1	58.6	64.1	75.0	75.8	72.6
97.5°	18.7	25.8	41.4	58.6	78.1	88.3	96.1	112.5	129.7	140.6	153.9
100°	31.2	41.4	61.7	85.1	107.8	121.1	133.6	157.0	178.1	196.9	217.2
102.5°	46.1	57.8	82.8	111.7	139.8	154.7	167.9	195.3	224.2	249.2	271.1
105°	61.7	75.0	104.7	137.5	169.5	186.7	203.1	232.8	263.2	290.6	316.4
107.5°	78.9	93.0	125.0	161.7	197.6	217.2	235.1	267.2	299.2	328.9	356.2
110°	95.3	110.9	144.5	184.4	225.0	244.5	262.5	297.6	331.2	362.5	391.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	112.5	128.9	162.5	206.2	247.6	267.9	286.7	324.2	359.3	391.4	420.3
115°	128.9	144.5	179.7	225.0	267.2	288.2	308.6	346.8	383.5	415.6	445.3
117.5°	144.5	159.4	195.3	240.6	284.3	305.4	325.7	365.6	402.3	435.9	464.8
120°	160.1	173.4	212.5	253.9	298.4	319.5	340.6	380.4	417.9	451.5	481.2
122.5°	174.2	186.7	225.0	265.6	309.3	331.2	351.5	392.1	430.4	464.0	492.9
125°	186.7	198.4	236.7	275.0	318.7	339.8	360.9	400.7	439.0	471.8	501.5
127.5°	199.2	210.9	245.3	284.3	325.0	346.8	367.1	407.0	444.5	478.1	507.0
130°	212.5	221.1	253.9	292.9	331.2	351.5	372.6	410.9	447.6	480.4	509.3
132.5°	223.4	231.2	262.5	300.0	335.9	355.4	374.2	412.4	449.2	480.4	508.5
135°	233.6	239.8	268.7	306.2	339.8	357.8	375.7	411.7	447.6	478.8	506.2
137.5°	242.9	249.2	274.2	310.9	342.9	358.5	375.7	409.3	443.7	474.9	500.7
140°	251.5	256.2	278.9	313.2	344.5	359.3	374.2	405.4	437.4	467.9	493.7
142.5°	260.1	264.0	282.8	314.8	345.3	359.3	373.4	400.7	430.4	460.1	485.9
145°	266.4	270.3	285.9	315.6	344.5	357.8	370.3	396.0	422.6	449.9	474.9
147.5°	273.4	276.5	289.0	314.0	342.1	354.6	366.4	389.8	414.0	439.0	462.4
150°	278.1	281.2	290.6	312.5	338.2	350.0	361.7	383.5	405.4	427.3	447.6
152.5°	282.8	285.1	292.9	310.1	333.6	344.5	355.4	376.5	396.8	416.4	434.3
155°	286.7	289.0	294.5	308.6	328.1	338.2	348.4	368.7	387.5	404.6	421.0
157.5°	290.6	292.2	296.1	306.2	321.8	331.2	340.6	358.5	375.7	392.9	406.2
160°	293.7	294.5	297.6	305.4	316.4	323.4	332.0	348.4	364.0	378.9	391.4
162.5°	296.8	296.8	299.2	303.9	311.7	316.4	322.6	336.7	350.7	364.0	375.7
165°	298.4	298.4	300.0	303.1	307.8	310.9	314.8	324.2	335.1	346.8	357.8
167.5°	300.0	300.0	300.7	302.3	305.4	307.0	308.6	314.8	321.8	330.4	339.0
170°	301.5	300.7	300.7	302.3	303.1	303.9	304.7	307.8	310.9	316.4	321.1
172.5°	301.5	300.7	300.7	301.5	301.5	301.5	301.5	302.3	303.1	306.2	307.8
175°	301.5	300.7	300.7	300.7	300.7	300.0	300.0	300.0	300.0	300.0	300.7
177.5°	301.5	300.7	300.0	300.0	299.2	299.2	298.4	298.4	297.6	297.6	297.6
180°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3
2.5°	221.1	221.1	220.3	220.3	219.5	219.5	218.7	217.9	217.2	217.2
5°	221.8	221.1	220.3	220.3	220.3	219.5	219.5	219.5	218.7	218.7
7.5°	221.8	221.8	221.8	221.1	221.1	221.1	221.1	221.1	220.3	220.3
10°	222.6	222.6	222.6	222.6	222.6	222.6	222.6	221.8	221.8	221.8
12.5°	222.6	222.6	222.6	223.4	223.4	223.4	223.4	223.4	223.4	223.4
15°	223.4	223.4	224.2	224.2	225.0	225.0	225.8	225.8	225.8	225.0
17.5°	222.6	223.4	224.2	225.0	225.8	225.8	226.5	226.5	226.5	226.5
20°	222.6	224.2	225.0	225.8	226.5	226.5	227.3	228.1	228.1	227.3
22.5°	221.8	223.4	224.2	225.8	226.5	226.5	228.1	228.1	228.1	228.1
25°	221.1	222.6	224.2	225.8	226.5	226.5	228.1	228.1	228.9	228.9
27.5°	219.5	221.1	223.4	225.0	225.8	226.5	227.3	228.1	228.1	228.1
30°	217.2	219.5	221.8	223.4	224.2	225.0	225.8	226.5	227.3	227.3
32.5°	214.0	216.4	218.7	221.1	221.8	222.6	224.2	225.0	225.0	225.0
35°	210.9	213.3	215.6	217.9	218.7	219.5	221.1	221.8	222.6	222.6
37.5°	206.2	208.6	210.9	213.3	214.0	215.6	217.2	217.9	217.9	217.9
40°	199.2	203.1	206.2	208.6	209.3	210.9	211.7	213.3	213.3	213.3
42.5°	192.9	196.1	198.4	201.5	202.3	204.7	206.2	207.0	207.8	207.8
45°	185.9	189.0	191.4	193.7	194.5	196.1	197.6	198.4	199.2	200.0
47.5°	178.9	181.2	183.6	185.9	186.7	188.3	189.8	190.6	191.4	191.4
50°	170.3	172.6	175.0	177.3	178.1	179.7	180.4	181.2	182.0	182.0
52.5°	160.9	163.3	165.6	167.9	168.7	169.5	171.1	171.9	172.6	172.6
55°	151.5	153.9	155.4	157.8	158.6	159.4	160.1	161.7	162.5	161.7
57.5°	140.6	143.0	144.5	146.9	147.6	148.4	149.2	150.0	150.8	150.8
60°	128.9	131.2	133.6	135.1	135.9	136.7	137.5	138.3	139.0	139.0
62.5°	117.2	119.5	121.1	123.4	124.2	124.2	125.0	125.8	126.5	126.5
65°	105.5	107.8	108.6	110.9	110.9	111.7	112.5	113.3	113.3	113.3
67.5°	93.0	95.3	96.1	97.6	97.6	98.4	99.2	100.0	100.0	100.0
70°	81.2	82.0	83.6	84.4	85.1	85.1	85.9	86.7	87.5	86.7
72.5°	68.7	69.5	71.1	71.9	71.9	72.6	72.6	73.4	74.2	74.2
75°	56.2	57.8	58.6	59.4	60.1	60.1	60.9	61.7	61.7	61.7
77.5°	44.5	46.1	46.9	47.7	48.4	48.4	49.2	49.2	50.0	49.2
80°	34.4	35.2	35.9	36.7	37.5	37.5	38.3	39.1	39.1	39.1
82.5°	25.0	25.8	27.3	28.1	28.1	28.1	29.7	29.7	30.5	29.7
85°	17.2	18.0	19.5	20.3	21.1	21.1	21.1	21.9	22.7	21.9
87.5°	10.9	12.5	13.3	14.1	14.1	14.1	14.8	15.6	15.6	15.6
90°	6.2	6.2	7.0	7.8	7.8	8.6	8.6	9.4	9.4	9.4
92.5°	6.2	7.0	7.0	7.0	7.8	7.8	7.8	8.6	8.6	8.6
95°	53.1	38.3	21.9	17.2	14.8	14.8	14.1	14.8	14.1	14.1
97.5°	160.9	174.2	180.4	189.0	193.7	192.9	189.8	192.9	190.6	192.9
100°	228.9	241.4	250.8	253.1	257.8	260.1	268.7	275.0	278.1	282.0
102.5°	284.3	299.2	310.1	316.4	321.1	324.2	334.3	343.7	348.4	351.5
105°	335.1	350.7	364.0	370.3	375.7	378.9	389.8	400.7	407.8	411.7
107.5°	375.7	393.7	407.8	417.1	422.6	428.1	441.4	452.3	460.9	464.8
110°	412.4	430.4	445.3	456.2	462.4	467.9	482.8	495.3	504.6	509.3





TEST NUMBER: P393789

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	442.9	462.4	477.3	489.0	495.3	503.1	517.1	531.2	540.6	546.0
115°	467.9	488.2	503.8	516.3	523.4	530.4	546.8	560.9	570.2	574.1
117.5°	489.0	509.3	525.7	538.2	546.0	553.8	570.2	582.7	592.9	596.0
120°	506.2	526.5	542.9	557.0	564.8	571.8	587.4	600.7	610.1	612.4
122.5°	517.9	539.0	556.2	571.8	578.8	585.9	600.7	614.0	622.6	624.9
125°	526.5	548.4	565.6	582.0	589.0	596.0	610.1	623.4	630.4	633.5
127.5°	532.0	553.8	572.6	588.2	596.0	602.3	616.3	628.0	635.1	637.4
130°	533.5	556.2	574.9	591.3	598.4	604.6	617.9	629.6	635.9	637.4
132.5°	533.5	555.4	574.9	590.6	597.6	603.8	616.3	627.3	633.5	635.1
135°	530.4	551.5	571.0	586.6	593.7	599.9	612.4	621.8	628.0	628.8
137.5°	524.9	545.2	564.0	579.6	586.6	592.9	603.8	614.0	619.5	621.0
140°	517.9	536.7	555.4	570.2	577.3	582.7	593.7	602.3	607.7	609.3
142.5°	508.5	527.3	544.5	559.3	564.8	571.0	580.4	589.0	593.7	595.2
145°	498.4	516.3	532.0	545.2	551.5	557.0	565.6	573.4	578.1	579.6
147.5°	485.1	503.1	517.9	530.4	535.9	541.3	549.2	556.2	560.9	562.4
150°	468.7	485.1	500.7	512.4	517.9	523.4	531.2	537.4	542.1	542.9
152.5°	452.3	467.9	481.2	492.9	498.4	503.8	510.9	517.1	522.6	522.6
155°	436.7	449.9	462.4	472.6	477.3	482.0	489.0	494.5	499.2	499.2
157.5°	420.3	432.8	442.9	452.3	456.2	460.1	466.3	471.0	474.9	474.2
160°	404.6	414.0	423.4	431.2	435.1	438.2	442.9	446.8	450.7	449.9
162.5°	387.5	396.0	403.9	409.3	412.4	414.8	419.5	423.4	425.7	425.7
165°	367.9	375.7	382.8	388.2	391.4	392.9	396.8	399.2	401.5	401.5
167.5°	347.6	353.9	360.1	364.8	367.9	369.5	373.4	375.0	378.1	377.3
170°	327.3	332.0	336.7	340.6	342.1	343.7	346.8	348.4	350.0	350.0
172.5°	310.9	312.5	314.8	317.9	317.9	318.7	320.3	321.1	321.8	321.8
175°	301.5	302.3	302.3	302.3	302.3	302.3	303.1	302.3	303.1	302.3
177.5°	297.6	297.6	296.8	296.8	296.1	296.8	296.1	295.3	295.3	294.5
180°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1

(END OF REPORT)