

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: P393786

Luminaire Tested: **I3-CL-20L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393786  
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-20L840-1D-UNV-STD-W-4  
Description: CORELITE I3, CLEAR TOP COVER  
2000 LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

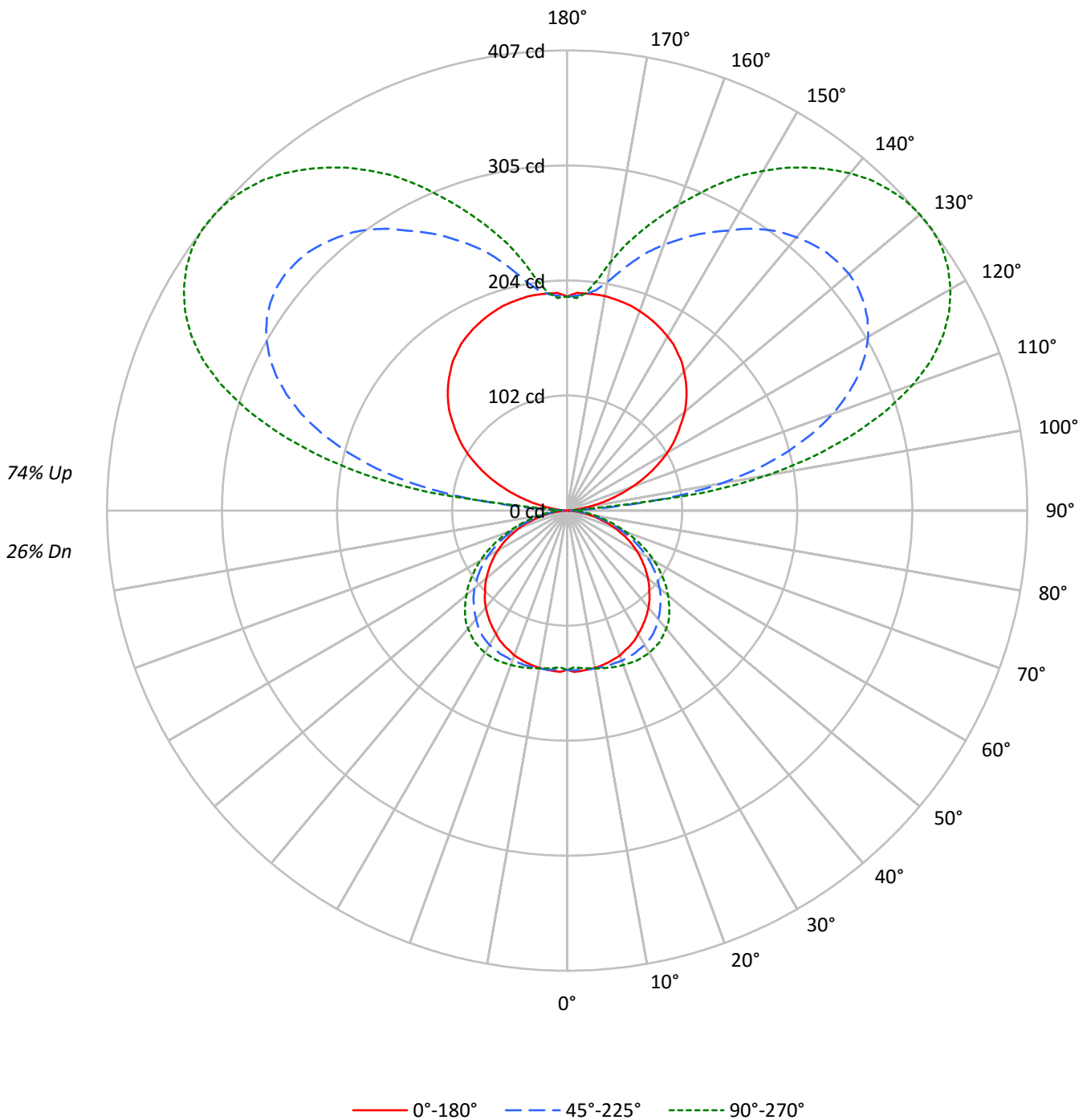
Lumens per Lamp: N/A  
Luminaire Lumens: 1855.2 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 12.8  
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°	774	774	774
5°	782	762	749
10°	783	756	747
15°	784	753	751
20°	785	754	758
25°	784	754	768
30°	779	755	773
35°	777	751	774
40°	775	735	764
45°	766	717	745
50°	760	694	712
55°	744	658	671
60°	726	613	620
65°	696	550	549
70°	646	468	465
75°	559	372	373
80°	433	265	274
85°	255	164	184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.5	0.7
10°-20°	40.0	2.2
20°-30°	64.2	3.5
30°-40°	82.1	4.4
40°-50°	89.5	4.8
50°-60°	83.8	4.5
60°-70°	65.0	3.5
70°-80°	37.3	2.0
80°-90°	11.9	0.6
90°-100°	47.8	2.6
100°-110°	186.0	10.0
110°-120°	253.2	13.6
120°-130°	262.9	14.2
130°-140°	233.2	12.6
140°-150°	180.9	9.8
150°-160°	120.7	6.5
160°-170°	64.4	3.5
170°-180°	18.8	1.0
0°-30°	117.7	6.3
0°-40°	199.7	10.8
0°-60°	373.0	20.1
0°-90°	487.3	26.3
90°-120°	487.1	26.3
90°-150°	1164.0	62.7
90°-180°	1368.0	73.7
0°-180°	1855.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	141	141	141	141	141	
5°	142	141	141	141	140	14
15°	139	139	142	144	144	39
25°	132	133	140	145	146	61
35°	119	122	133	140	142	75
45°	103	107	117	124	128	79
55°	82	87	95	101	103	74
65°	58	61	66	71	72	58
75°	30	32	35	38	39	33
85°	6	7	10	14	14	7
90°	0	2	4	5	6	1
95°	6	34	46	10	9	8
105°	39	119	202	240	263	42
115°	82	184	284	334	367	81
125°	119	217	320	376	405	107
135°	149	229	324	379	402	115
145°	170	229	304	352	370	107
155°	183	216	269	305	319	85
165°	191	199	229	250	257	54
175°	193	192	192	193	193	18
180°	189	189	189	189	189	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8
2.5°	142.8	142.3	142.3	141.3	141.3	140.8	140.8	140.8	140.8	140.8	141.3
5°	142.3	142.3	141.8	141.3	141.3	140.8	140.8	140.8	140.8	140.8	141.3
7.5°	141.8	141.8	141.3	140.8	140.8	140.8	140.8	140.8	140.8	140.8	141.8
10°	141.3	141.3	140.8	140.3	140.3	140.3	140.3	140.8	140.8	140.8	141.8
12.5°	140.3	139.8	139.8	139.3	139.3	139.3	139.8	139.8	140.3	140.8	141.8
15°	139.3	139.3	138.8	138.3	138.8	138.8	138.8	139.3	139.8	140.3	141.8
17.5°	137.8	137.8	137.3	137.3	137.3	137.8	137.8	138.3	139.3	140.3	141.3
20°	136.3	135.8	135.8	135.8	136.3	136.3	136.8	137.8	138.3	139.8	141.3
22.5°	133.8	134.3	133.8	133.8	134.3	134.8	135.3	136.3	137.3	138.8	140.3
25°	131.8	131.8	131.8	131.8	132.8	132.8	133.8	134.8	136.3	137.8	139.8
27.5°	129.3	129.3	129.3	129.8	130.3	130.8	131.3	132.8	134.3	136.3	138.3
30°	125.8	125.8	125.8	125.8	127.3	127.8	128.8	130.8	132.3	134.8	137.3
32.5°	122.8	122.8	122.8	123.3	124.3	124.8	125.8	128.3	130.3	132.8	135.3
35°	119.3	119.3	119.8	119.8	121.3	121.8	122.8	124.8	126.8	129.8	132.8
37.5°	115.8	115.8	116.3	116.8	117.8	118.8	119.8	121.8	123.8	126.3	129.3
40°	111.8	111.8	112.3	112.8	114.3	115.3	116.3	118.3	120.3	122.8	125.3
42.5°	107.8	107.8	108.3	108.8	110.3	111.3	112.3	114.8	116.8	119.3	121.3
45°	102.8	103.3	103.8	104.8	106.3	107.3	108.3	110.3	112.8	114.8	116.8
47.5°	98.3	98.8	99.3	100.3	101.8	102.8	103.8	105.8	107.8	109.8	112.3
50°	93.4	93.9	94.3	95.3	96.8	97.8	98.8	100.8	102.8	104.3	106.8
52.5°	87.9	88.4	88.9	89.9	91.9	92.4	93.4	95.3	96.8	98.8	100.8
55°	82.4	82.9	83.4	84.4	85.9	86.9	87.4	89.4	90.9	92.9	94.8
57.5°	76.9	77.4	77.9	78.9	79.9	80.9	81.4	82.9	84.9	86.4	88.4
60°	70.9	71.4	71.9	72.4	73.9	74.4	74.9	76.4	77.9	79.9	81.4
62.5°	64.9	64.9	65.4	65.9	67.4	67.9	68.4	69.4	71.4	72.4	73.9
65°	58.4	58.4	58.9	59.4	60.4	60.9	61.4	62.4	63.9	64.9	66.4
67.5°	51.4	51.4	51.9	52.4	53.4	53.9	53.9	55.4	56.4	57.4	58.4
70°	44.9	44.9	45.4	45.4	45.9	46.4	46.9	47.9	48.4	49.9	50.4
72.5°	37.9	37.9	37.9	37.9	38.9	38.9	39.4	40.4	40.9	41.9	42.9
75°	30.5	30.5	31.0	31.0	31.4	31.9	32.4	32.9	33.9	34.4	34.9
77.5°	24.0	23.5	24.0	24.5	25.0	25.0	25.5	26.0	26.5	27.5	28.0
80°	17.0	17.0	17.0	17.5	18.0	18.0	18.5	19.0	19.5	20.5	21.0
82.5°	11.0	11.0	11.5	11.5	12.0	12.5	12.5	13.0	13.5	14.5	15.0
85°	6.0	6.0	6.0	6.5	7.0	7.0	7.5	8.0	9.0	9.5	10.5
87.5°	2.0	2.0	2.5	3.0	3.5	3.5	4.0	4.5	5.0	6.0	6.5
90°	0.5	0.5	0.5	1.0	1.0	1.5	1.5	2.0	2.5	3.0	3.5
92.5°	2.0	3.5	5.5	8.0	7.5	8.0	5.5	3.5	3.5	3.5	4.0
95°	6.0	9.0	14.5	23.0	30.0	33.9	37.4	40.9	47.9	48.4	46.4
97.5°	12.0	16.5	26.5	37.4	49.9	56.4	61.4	71.9	82.9	89.9	98.3
100°	20.0	26.5	39.4	54.4	68.9	77.4	85.4	100.3	113.8	125.8	138.8
102.5°	29.5	36.9	52.9	71.4	89.4	98.8	107.3	124.8	143.3	159.2	173.2
105°	39.4	47.9	66.9	87.9	108.3	119.3	129.8	148.8	168.2	185.7	202.2
107.5°	50.4	59.4	79.9	103.3	126.3	138.8	150.3	170.7	191.2	210.2	227.6
110°	60.9	70.9	92.4	117.8	143.8	156.3	167.7	190.2	211.7	231.6	250.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	71.9	82.4	103.8	131.8	158.2	171.2	183.2	207.2	229.6	250.1	268.6
115°	82.4	92.4	114.8	143.8	170.7	184.2	197.2	221.6	245.1	265.6	284.5
117.5°	92.4	101.8	124.8	153.8	181.7	195.2	208.2	233.6	257.1	278.6	297.0
120°	102.3	110.8	135.8	162.2	190.7	204.2	217.7	243.1	267.1	288.5	307.5
122.5°	111.3	119.3	143.8	169.7	197.7	211.7	224.6	250.6	275.1	296.5	315.0
125°	119.3	126.8	151.3	175.7	203.7	217.2	230.6	256.1	280.6	301.5	320.5
127.5°	127.3	134.8	156.8	181.7	207.7	221.6	234.6	260.1	284.0	305.5	324.0
130°	135.8	141.3	162.2	187.2	211.7	224.6	238.1	262.6	286.0	307.0	325.5
132.5°	142.8	147.8	167.7	191.7	214.7	227.1	239.1	263.6	287.0	307.0	325.0
135°	149.3	153.3	171.7	195.7	217.2	228.6	240.1	263.1	286.0	306.0	323.5
137.5°	155.3	159.2	175.2	198.7	219.2	229.1	240.1	261.6	283.5	303.5	320.0
140°	160.7	163.7	178.2	200.2	220.1	229.6	239.1	259.1	279.6	299.0	315.5
142.5°	166.2	168.7	180.7	201.2	220.6	229.6	238.6	256.1	275.1	294.0	310.5
145°	170.2	172.7	182.7	201.7	220.1	228.6	236.6	253.1	270.1	287.5	303.5
147.5°	174.7	176.7	184.7	200.7	218.7	226.6	234.1	249.1	264.6	280.6	295.5
150°	177.7	179.7	185.7	199.7	216.2	223.6	231.1	245.1	259.1	273.1	286.0
152.5°	180.7	182.2	187.2	198.2	213.2	220.1	227.1	240.6	253.6	266.1	277.6
155°	183.2	184.7	188.2	197.2	209.7	216.2	222.6	235.6	247.6	258.6	269.1
157.5°	185.7	186.7	189.2	195.7	205.7	211.7	217.7	229.1	240.1	251.1	259.6
160°	187.7	188.2	190.2	195.2	202.2	206.7	212.2	222.6	232.6	242.1	250.1
162.5°	189.7	189.7	191.2	194.2	199.2	202.2	206.2	215.2	224.1	232.6	240.1
165°	190.7	190.7	191.7	193.7	196.7	198.7	201.2	207.2	214.2	221.6	228.6
167.5°	191.7	191.7	192.2	193.2	195.2	196.2	197.2	201.2	205.7	211.2	216.7
170°	192.7	192.2	192.2	193.2	193.7	194.2	194.7	196.7	198.7	202.2	205.2
172.5°	192.7	192.2	192.2	192.7	192.7	192.7	192.7	193.2	193.7	195.7	196.7
175°	192.7	192.2	192.2	192.2	192.2	191.7	191.7	191.7	191.7	191.7	192.2
177.5°	192.7	192.2	191.7	191.7	191.2	191.2	190.7	190.7	190.2	190.2	190.2
180°	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8
2.5°	141.3	141.3	140.8	140.8	140.3	140.3	139.8	139.3	138.8	138.8
5°	141.8	141.3	140.8	140.8	140.8	140.3	140.3	140.3	139.8	139.8
7.5°	141.8	141.8	141.8	141.3	141.3	141.3	141.3	141.3	140.8	140.8
10°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	141.8	141.8	141.8
12.5°	142.3	142.3	142.3	142.8	142.8	142.8	142.8	142.8	142.8	142.8
15°	142.8	142.8	143.3	143.3	143.8	143.8	144.3	144.3	144.3	143.8
17.5°	142.3	142.8	143.3	143.8	144.3	144.3	144.8	144.8	144.8	144.8
20°	142.3	143.3	143.8	144.3	144.8	144.8	145.3	145.8	145.8	145.3
22.5°	141.8	142.8	143.3	144.3	144.8	144.8	145.8	145.8	145.8	145.8
25°	141.3	142.3	143.3	144.3	144.8	144.8	145.8	145.8	146.3	146.3
27.5°	140.3	141.3	142.8	143.8	144.3	144.8	145.3	145.8	145.8	145.8
30°	138.8	140.3	141.8	142.8	143.3	143.8	144.3	144.8	145.3	145.3
32.5°	136.8	138.3	139.8	141.3	141.8	142.3	143.3	143.8	143.8	143.8
35°	134.8	136.3	137.8	139.3	139.8	140.3	141.3	141.8	142.3	142.3
37.5°	131.8	133.3	134.8	136.3	136.8	137.8	138.8	139.3	139.3	139.3
40°	127.3	129.8	131.8	133.3	133.8	134.8	135.3	136.3	136.3	136.3
42.5°	123.3	125.3	126.8	128.8	129.3	130.8	131.8	132.3	132.8	132.8
45°	118.8	120.8	122.3	123.8	124.3	125.3	126.3	126.8	127.3	127.8
47.5°	114.3	115.8	117.3	118.8	119.3	120.3	121.3	121.8	122.3	122.3
50°	108.8	110.3	111.8	113.3	113.8	114.8	115.3	115.8	116.3	116.3
52.5°	102.8	104.3	105.8	107.3	107.8	108.3	109.3	109.8	110.3	110.3
55°	96.8	98.3	99.3	100.8	101.3	101.8	102.3	103.3	103.8	103.3
57.5°	89.9	91.4	92.4	93.9	94.3	94.8	95.3	95.8	96.3	96.3
60°	82.4	83.9	85.4	86.4	86.9	87.4	87.9	88.4	88.9	88.9
62.5°	74.9	76.4	77.4	78.9	79.4	79.4	79.9	80.4	80.9	80.9
65°	67.4	68.9	69.4	70.9	70.9	71.4	71.9	72.4	72.4	72.4
67.5°	59.4	60.9	61.4	62.4	62.4	62.9	63.4	63.9	63.9	63.9
70°	51.9	52.4	53.4	53.9	54.4	54.4	54.9	55.4	55.9	55.4
72.5°	43.9	44.4	45.4	45.9	45.9	46.4	46.4	46.9	47.4	47.4
75°	35.9	36.9	37.4	37.9	38.4	38.4	38.9	39.4	39.4	39.4
77.5°	28.5	29.5	30.0	30.5	31.0	31.0	31.4	31.4	31.9	31.4
80°	22.0	22.5	23.0	23.5	24.0	24.0	24.5	25.0	25.0	25.0
82.5°	16.0	16.5	17.5	18.0	18.0	18.0	19.0	19.0	19.5	19.0
85°	11.0	11.5	12.5	13.0	13.5	13.5	13.5	14.0	14.5	14.0
87.5°	7.0	8.0	8.5	9.0	9.0	9.0	9.5	10.0	10.0	10.0
90°	4.0	4.0	4.5	5.0	5.0	5.5	5.5	6.0	6.0	6.0
92.5°	4.0	4.5	4.5	4.5	5.0	5.0	5.0	5.5	5.5	5.5
95°	33.9	24.5	14.0	11.0	9.5	9.5	9.0	9.5	9.0	9.0
97.5°	102.8	111.3	115.3	120.8	123.8	123.3	121.3	123.3	121.8	123.3
100°	146.3	154.3	160.2	161.7	164.7	166.2	171.7	175.7	177.7	180.2
102.5°	181.7	191.2	198.2	202.2	205.2	207.2	213.7	219.7	222.6	224.6
105°	214.2	224.1	232.6	236.6	240.1	242.1	249.1	256.1	260.6	263.1
107.5°	240.1	251.6	260.6	266.6	270.1	273.6	282.1	289.0	294.5	297.0
110°	263.6	275.1	284.5	291.5	295.5	299.0	308.5	316.5	322.5	325.5





TEST NUMBER: P393786

CATALOG NUMBER: I3-CL-20L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	283.0	295.5	305.0	312.5	316.5	321.5	330.5	339.5	345.5	348.9
115°	299.0	312.0	322.0	330.0	334.5	339.0	349.4	358.4	364.4	366.9
117.5°	312.5	325.5	336.0	344.0	348.9	353.9	364.4	372.4	378.9	380.9
120°	323.5	336.5	346.9	355.9	360.9	365.4	375.4	383.9	389.9	391.4
122.5°	331.0	344.5	355.4	365.4	369.9	374.4	383.9	392.4	397.9	399.4
125°	336.5	350.4	361.4	371.9	376.4	380.9	389.9	398.4	402.9	404.9
127.5°	340.0	353.9	365.9	375.9	380.9	384.9	393.9	401.4	405.9	407.4
130°	341.0	355.4	367.4	377.9	382.4	386.4	394.9	402.4	406.4	407.4
132.5°	341.0	354.9	367.4	377.4	381.9	385.9	393.9	400.9	404.9	405.9
135°	339.0	352.4	364.9	374.9	379.4	383.4	391.4	397.4	401.4	401.9
137.5°	335.5	348.4	360.4	370.4	374.9	378.9	385.9	392.4	395.9	396.9
140°	331.0	343.0	354.9	364.4	368.9	372.4	379.4	384.9	388.4	389.4
142.5°	325.0	337.0	347.9	357.4	360.9	364.9	370.9	376.4	379.4	380.4
145°	318.5	330.0	340.0	348.4	352.4	355.9	361.4	366.4	369.4	370.4
147.5°	310.0	321.5	331.0	339.0	342.5	345.9	350.9	355.4	358.4	359.4
150°	299.5	310.0	320.0	327.5	331.0	334.5	339.5	343.5	346.4	346.9
152.5°	289.0	299.0	307.5	315.0	318.5	322.0	326.5	330.5	334.0	334.0
155°	279.1	287.5	295.5	302.0	305.0	308.0	312.5	316.0	319.0	319.0
157.5°	268.6	276.6	283.0	289.0	291.5	294.0	298.0	301.0	303.5	303.0
160°	258.6	264.6	270.6	275.6	278.1	280.1	283.0	285.5	288.0	287.5
162.5°	247.6	253.1	258.1	261.6	263.6	265.1	268.1	270.6	272.1	272.1
165°	235.1	240.1	244.6	248.1	250.1	251.1	253.6	255.1	256.6	256.6
167.5°	222.1	226.1	230.1	233.1	235.1	236.1	238.6	239.6	241.6	241.1
170°	209.2	212.2	215.2	217.7	218.7	219.7	221.6	222.6	223.6	223.6
172.5°	198.7	199.7	201.2	203.2	203.2	203.7	204.7	205.2	205.7	205.7
175°	192.7	193.2	193.2	193.2	193.2	193.2	193.7	193.2	193.7	193.2
177.5°	190.2	190.2	189.7	189.7	189.2	189.7	189.2	188.7	188.7	188.2
180°	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2

(END OF REPORT)