

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: P393784

Luminaire Tested: **I3-CL-20L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393784  
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-20L830-1D-UNV-STD-W-4  
Description: CORELITE I3, CLEAR TOP COVER  
2000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

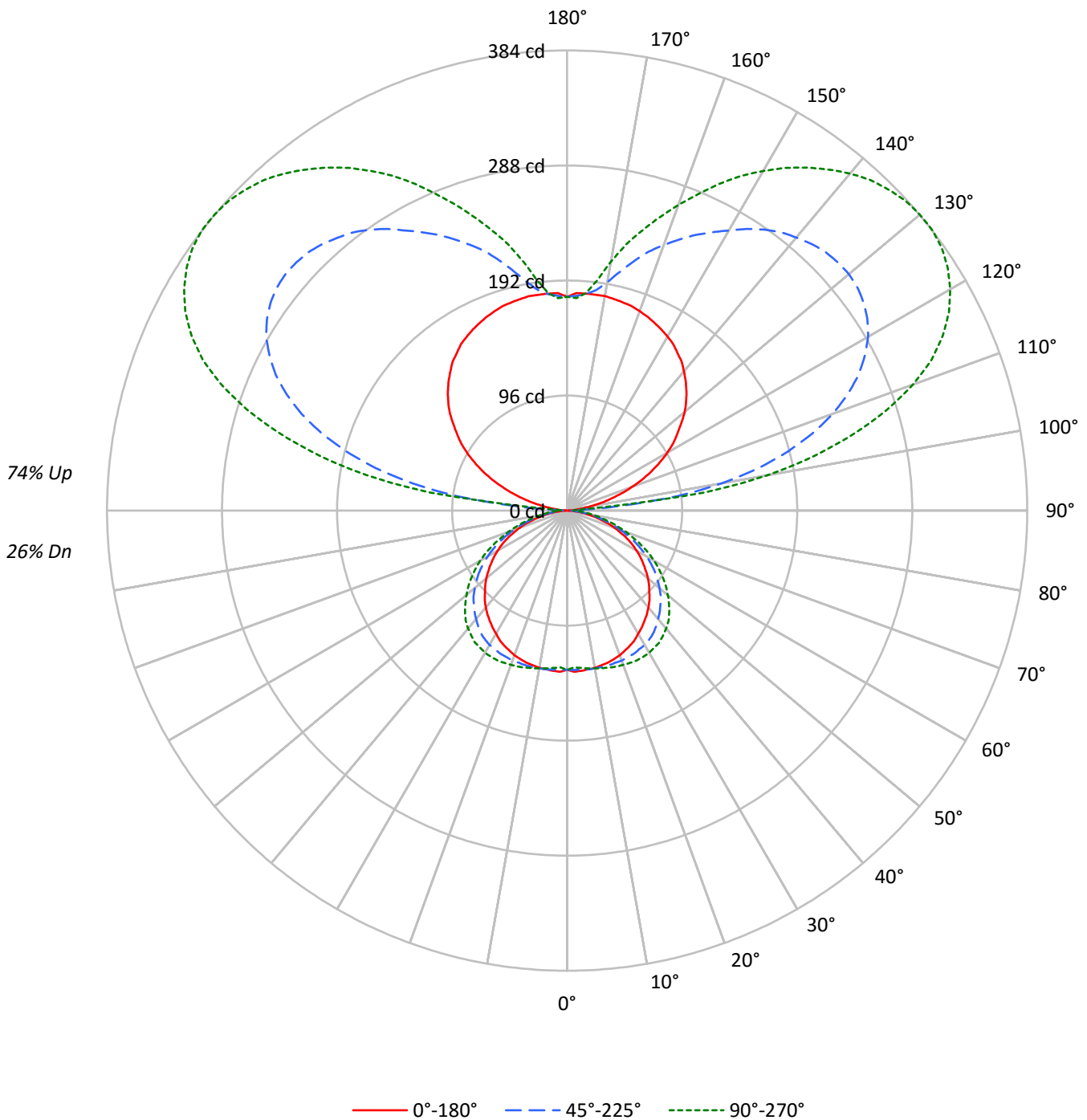
Lumens per Lamp: N/A  
Luminaire Lumens: 1749.6 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

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°	730	730	730
5°	738	718	707
10°	738	713	705
15°	739	710	708
20°	740	710	715
25°	739	711	724
30°	735	713	729
35°	733	708	730
40°	731	693	720
45°	723	677	703
50°	716	654	671
55°	702	622	633
60°	685	577	584
65°	657	519	518
70°	610	441	439
75°	526	352	352
80°	408	250	257
85°	238	155	173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.7	0.7
10°-20°	37.7	2.2
20°-30°	60.5	3.5
30°-40°	77.4	4.4
40°-50°	84.4	4.8
50°-60°	79.1	4.5
60°-70°	61.3	3.5
70°-80°	35.2	2.0
80°-90°	11.2	0.6
90°-100°	45.1	2.6
100°-110°	175.4	10.0
110°-120°	238.8	13.7
120°-130°	247.9	14.2
130°-140°	219.9	12.6
140°-150°	170.6	9.8
150°-160°	113.9	6.5
160°-170°	60.7	3.5
170°-180°	17.8	1.0
0°-30°	110.9	6.3
0°-40°	188.3	10.8
0°-60°	351.8	20.1
0°-90°	459.5	26.3
90°-120°	459.4	26.3
90°-150°	1097.7	62.7
90°-180°	1290.0	73.7
0°-180°	1749.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	133	133	133	133	133	
5°	134	133	133	133	132	13
15°	131	131	134	136	136	37
25°	124	125	132	136	138	57
35°	112	115	125	132	134	70
45°	97	101	110	117	120	75
55°	78	82	90	96	98	69
65°	55	57	63	67	68	54
75°	29	30	33	36	37	31
85°	6	7	10	13	13	7
90°	0	1	3	5	6	1
95°	6	32	44	9	8	7
105°	37	112	191	226	248	40
115°	78	174	268	315	346	77
125°	112	205	302	355	382	101
135°	141	216	305	358	379	108
145°	160	216	286	332	349	101
155°	173	204	254	288	301	80
165°	180	187	216	236	242	51
175°	182	181	181	182	182	17
180°	178	178	178	178	178	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8
2.5°	134.6	134.2	134.2	133.2	133.2	132.8	132.8	132.8	132.8	132.8	133.2
5°	134.2	134.2	133.7	133.2	133.2	132.8	132.8	132.8	132.8	132.8	133.2
7.5°	133.7	133.7	133.2	132.8	132.8	132.8	132.8	132.8	132.8	132.8	133.7
10°	133.2	133.2	132.8	132.3	132.3	132.3	132.3	132.8	132.8	132.8	133.7
12.5°	132.3	131.8	131.8	131.4	131.4	131.4	131.8	131.8	132.3	132.8	133.7
15°	131.4	131.4	130.9	130.4	130.9	130.9	130.9	131.4	131.8	132.3	133.7
17.5°	129.9	129.9	129.5	129.5	129.5	129.9	129.9	130.4	131.4	132.3	133.2
20°	128.5	128.1	128.1	128.1	128.5	128.5	129.0	129.9	130.4	131.8	133.2
22.5°	126.2	126.6	126.2	126.2	126.6	127.1	127.6	128.5	129.5	130.9	132.3
25°	124.3	124.3	124.3	124.3	125.2	125.2	126.2	127.1	128.5	129.9	131.8
27.5°	121.9	121.9	121.9	122.4	122.9	123.3	123.8	125.2	126.6	128.5	130.4
30°	118.6	118.6	118.6	118.6	120.1	120.5	121.5	123.3	124.8	127.1	129.5
32.5°	115.8	115.8	115.8	116.3	117.2	117.7	118.6	121.0	122.9	125.2	127.6
35°	112.5	112.5	113.0	113.0	114.4	114.9	115.8	117.7	119.6	122.4	125.2
37.5°	109.2	109.2	109.7	110.2	111.1	112.0	113.0	114.9	116.8	119.1	121.9
40°	105.5	105.5	105.9	106.4	107.8	108.8	109.7	111.6	113.5	115.8	118.2
42.5°	101.7	101.7	102.2	102.6	104.0	105.0	105.9	108.3	110.2	112.5	114.4
45°	97.0	97.5	97.9	98.9	100.3	101.2	102.2	104.0	106.4	108.3	110.2
47.5°	92.7	93.2	93.7	94.6	96.0	97.0	97.9	99.8	101.7	103.6	105.9
50°	88.0	88.5	89.0	89.9	91.3	92.3	93.2	95.1	97.0	98.4	100.7
52.5°	82.9	83.3	83.8	84.7	86.6	87.1	88.0	89.9	91.3	93.2	95.1
55°	77.7	78.2	78.6	79.6	81.0	81.9	82.4	84.3	85.7	87.6	89.5
57.5°	72.5	73.0	73.4	74.4	75.3	76.3	76.7	78.2	80.0	81.4	83.3
60°	66.9	67.3	67.8	68.3	69.7	70.1	70.6	72.0	73.4	75.3	76.7
62.5°	61.2	61.2	61.7	62.1	63.6	64.0	64.5	65.4	67.3	68.3	69.7
65°	55.1	55.1	55.6	56.0	57.0	57.4	57.9	58.8	60.3	61.2	62.6
67.5°	48.5	48.5	49.0	49.4	50.4	50.8	50.8	52.3	53.2	54.1	55.1
70°	42.4	42.4	42.8	42.8	43.3	43.8	44.3	45.2	45.7	47.1	47.5
72.5°	35.8	35.8	35.8	35.8	36.7	36.7	37.2	38.1	38.6	39.5	40.5
75°	28.7	28.7	29.2	29.2	29.7	30.1	30.6	31.1	32.0	32.5	33.0
77.5°	22.6	22.1	22.6	23.1	23.5	23.5	24.0	24.5	25.0	25.9	26.4
80°	16.0	16.0	16.0	16.5	16.9	16.9	17.4	17.9	18.4	19.3	19.8
82.5°	10.4	10.4	10.8	10.8	11.3	11.8	11.8	12.2	12.7	13.7	14.1
85°	5.6	5.6	5.6	6.1	6.6	6.6	7.1	7.5	8.5	8.9	9.9
87.5°	1.9	1.9	2.4	2.8	3.3	3.3	3.8	4.2	4.7	5.6	6.1
90°	0.5	0.5	0.5	0.9	0.9	1.4	1.4	1.9	2.4	2.8	3.3
92.5°	1.9	3.3	5.2	7.5	7.1	7.5	5.2	3.3	3.3	3.3	3.8
95°	5.6	8.5	13.7	21.7	28.2	32.0	35.3	38.6	45.2	45.7	43.8
97.5°	11.3	15.5	25.0	35.3	47.1	53.2	57.9	67.8	78.2	84.7	92.7
100°	18.8	25.0	37.2	51.3	65.0	73.0	80.5	94.6	107.3	118.6	130.9
102.5°	27.8	34.8	49.9	67.3	84.3	93.2	101.2	117.7	135.1	150.2	163.4
105°	37.2	45.2	63.1	82.9	102.2	112.5	122.4	140.3	158.7	175.1	190.7
107.5°	47.5	56.0	75.3	97.5	119.1	130.9	141.7	161.0	180.3	198.2	214.7
110°	57.4	66.9	87.1	111.1	135.6	147.4	158.2	179.4	199.6	218.4	235.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	67.8	77.7	97.9	124.3	149.2	161.5	172.8	195.4	216.6	235.9	253.3
115°	77.7	87.1	108.3	135.6	161.0	173.7	186.0	209.0	231.2	250.5	268.4
117.5°	87.1	96.0	117.7	145.0	171.4	184.1	196.3	220.3	242.5	262.7	280.1
120°	96.5	104.5	128.1	153.0	179.8	192.6	205.3	229.3	251.9	272.1	290.0
122.5°	105.0	112.5	135.6	160.1	186.4	199.6	211.9	236.3	259.4	279.6	297.1
125°	112.5	119.6	142.6	165.7	192.1	204.8	217.5	241.5	264.6	284.4	302.2
127.5°	120.1	127.1	147.8	171.4	195.8	209.0	221.3	245.3	267.9	288.1	305.5
130°	128.1	133.2	153.0	176.5	199.6	211.9	224.6	247.6	269.8	289.5	307.0
132.5°	134.6	139.4	158.2	180.8	202.4	214.2	225.5	248.6	270.7	289.5	306.5
135°	140.8	144.5	162.0	184.6	204.8	215.6	226.5	248.1	269.8	288.6	305.1
137.5°	146.4	150.2	165.2	187.4	206.7	216.1	226.5	246.7	267.4	286.2	301.8
140°	151.6	154.4	168.1	188.8	207.6	216.6	225.5	244.3	263.6	282.0	297.5
142.5°	156.8	159.1	170.4	189.7	208.1	216.6	225.0	241.5	259.4	277.3	292.8
145°	160.5	162.9	172.3	190.2	207.6	215.6	223.2	238.7	254.7	271.2	286.2
147.5°	164.8	166.7	174.2	189.3	206.2	213.7	220.8	234.9	249.5	264.6	278.7
150°	167.6	169.5	175.1	188.3	203.9	210.9	218.0	231.2	244.3	257.5	269.8
152.5°	170.4	171.8	176.5	186.9	201.0	207.6	214.2	226.9	239.2	250.9	261.8
155°	172.8	174.2	177.5	186.0	197.7	203.9	210.0	222.2	233.5	243.9	253.8
157.5°	175.1	176.1	178.4	184.6	194.0	199.6	205.3	216.1	226.5	236.8	244.8
160°	177.0	177.5	179.4	184.1	190.7	194.9	200.1	210.0	219.4	228.3	235.9
162.5°	178.9	178.9	180.3	183.1	187.8	190.7	194.4	202.9	211.4	219.4	226.5
165°	179.8	179.8	180.8	182.7	185.5	187.4	189.7	195.4	202.0	209.0	215.6
167.5°	180.8	180.8	181.3	182.2	184.1	185.0	186.0	189.7	194.0	199.1	204.3
170°	181.7	181.3	181.3	182.2	182.7	183.1	183.6	185.5	187.4	190.7	193.5
172.5°	181.7	181.3	181.3	181.7	181.7	181.7	181.7	182.2	182.7	184.6	185.5
175°	181.7	181.3	181.3	181.3	181.3	180.8	180.8	180.8	180.8	180.8	181.3
177.5°	181.7	181.3	180.8	180.8	180.3	180.3	179.8	179.8	179.4	179.4	179.4
180°	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8
2.5°	133.2	133.2	132.8	132.8	132.3	132.3	131.8	131.4	130.9	130.9
5°	133.7	133.2	132.8	132.8	132.8	132.3	132.3	132.3	131.8	131.8
7.5°	133.7	133.7	133.7	133.2	133.2	133.2	133.2	133.2	132.8	132.8
10°	134.2	134.2	134.2	134.2	134.2	134.2	134.2	133.7	133.7	133.7
12.5°	134.2	134.2	134.2	134.6	134.6	134.6	134.6	134.6	134.6	134.6
15°	134.6	134.6	135.1	135.1	135.6	135.6	136.1	136.1	136.1	135.6
17.5°	134.2	134.6	135.1	135.6	136.1	136.1	136.5	136.5	136.5	136.5
20°	134.2	135.1	135.6	136.1	136.5	136.5	137.0	137.5	137.5	137.0
22.5°	133.7	134.6	135.1	136.1	136.5	136.5	137.5	137.5	137.5	137.5
25°	133.2	134.2	135.1	136.1	136.5	136.5	137.5	137.5	137.9	137.9
27.5°	132.3	133.2	134.6	135.6	136.1	136.5	137.0	137.5	137.5	137.5
30°	130.9	132.3	133.7	134.6	135.1	135.6	136.1	136.5	137.0	137.0
32.5°	129.0	130.4	131.8	133.2	133.7	134.2	135.1	135.6	135.6	135.6
35°	127.1	128.5	129.9	131.4	131.8	132.3	133.2	133.7	134.2	134.2
37.5°	124.3	125.7	127.1	128.5	129.0	129.9	130.9	131.4	131.4	131.4
40°	120.1	122.4	124.3	125.7	126.2	127.1	127.6	128.5	128.5	128.5
42.5°	116.3	118.2	119.6	121.5	121.9	123.3	124.3	124.8	125.2	125.2
45°	112.0	113.9	115.3	116.8	117.2	118.2	119.1	119.6	120.1	120.5
47.5°	107.8	109.2	110.6	112.0	112.5	113.5	114.4	114.9	115.3	115.3
50°	102.6	104.0	105.5	106.9	107.3	108.3	108.8	109.2	109.7	109.7
52.5°	97.0	98.4	99.8	101.2	101.7	102.2	103.1	103.6	104.0	104.0
55°	91.3	92.7	93.7	95.1	95.6	96.0	96.5	97.5	97.9	97.5
57.5°	84.7	86.2	87.1	88.5	89.0	89.5	89.9	90.4	90.9	90.9
60°	77.7	79.1	80.5	81.4	81.9	82.4	82.9	83.3	83.8	83.8
62.5°	70.6	72.0	73.0	74.4	74.9	74.9	75.3	75.8	76.3	76.3
65°	63.6	65.0	65.4	66.9	66.9	67.3	67.8	68.3	68.3	68.3
67.5°	56.0	57.4	57.9	58.8	58.8	59.3	59.8	60.3	60.3	60.3
70°	49.0	49.4	50.4	50.8	51.3	51.3	51.8	52.3	52.7	52.3
72.5°	41.4	41.9	42.8	43.3	43.3	43.8	43.8	44.3	44.7	44.7
75°	33.9	34.8	35.3	35.8	36.3	36.3	36.7	37.2	37.2	37.2
77.5°	26.8	27.8	28.2	28.7	29.2	29.2	29.7	29.7	30.1	29.7
80°	20.7	21.2	21.7	22.1	22.6	22.6	23.1	23.5	23.5	23.5
82.5°	15.1	15.5	16.5	16.9	16.9	16.9	17.9	17.9	18.4	17.9
85°	10.4	10.8	11.8	12.2	12.7	12.7	12.7	13.2	13.7	13.2
87.5°	6.6	7.5	8.0	8.5	8.5	8.5	8.9	9.4	9.4	9.4
90°	3.8	3.8	4.2	4.7	4.7	5.2	5.2	5.6	5.6	5.6
92.5°	3.8	4.2	4.2	4.2	4.7	4.7	4.7	5.2	5.2	5.2
95°	32.0	23.1	13.2	10.4	8.9	8.9	8.5	8.9	8.5	8.5
97.5°	97.0	105.0	108.8	113.9	116.8	116.3	114.4	116.3	114.9	116.3
100°	137.9	145.5	151.1	152.5	155.4	156.8	162.0	165.7	167.6	170.0
102.5°	171.4	180.3	186.9	190.7	193.5	195.4	201.5	207.1	210.0	211.9
105°	202.0	211.4	219.4	223.2	226.5	228.3	234.9	241.5	245.8	248.1
107.5°	226.5	237.3	245.8	251.4	254.7	258.0	266.0	272.6	277.8	280.1
110°	248.6	259.4	268.4	274.9	278.7	282.0	290.9	298.5	304.1	307.0





TEST NUMBER: P393784

CATALOG NUMBER: I3-CL-20L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	266.9	278.7	287.7	294.7	298.5	303.2	311.7	320.1	325.8	329.1
115°	282.0	294.2	303.7	311.2	315.4	319.7	329.6	338.0	343.7	346.0
117.5°	294.7	307.0	316.8	324.4	329.1	333.8	343.7	351.2	357.3	359.2
120°	305.1	317.3	327.2	335.7	340.4	344.6	354.0	362.0	367.7	369.1
122.5°	312.1	324.8	335.2	344.6	348.9	353.1	362.0	370.0	375.2	376.6
125°	317.3	330.5	340.9	350.7	355.0	359.2	367.7	375.7	379.9	381.8
127.5°	320.6	333.8	345.1	354.5	359.2	363.0	371.5	378.5	382.8	384.2
130°	321.6	335.2	346.5	356.4	360.6	364.4	372.4	379.5	383.2	384.2
132.5°	321.6	334.7	346.5	355.9	360.2	363.9	371.5	378.0	381.8	382.8
135°	319.7	332.4	344.1	353.6	357.8	361.6	369.1	374.7	378.5	379.0
137.5°	316.4	328.6	339.9	349.3	353.6	357.3	363.9	370.0	373.3	374.3
140°	312.1	323.4	334.7	343.7	347.9	351.2	357.8	363.0	366.3	367.2
142.5°	306.5	317.8	328.1	337.1	340.4	344.1	349.8	355.0	357.8	358.7
145°	300.4	311.2	320.6	328.6	332.4	335.7	340.9	345.6	348.4	349.3
147.5°	292.4	303.2	312.1	319.7	323.0	326.3	331.0	335.2	338.0	339.0
150°	282.5	292.4	301.8	308.8	312.1	315.4	320.1	323.9	326.7	327.2
152.5°	272.6	282.0	290.0	297.1	300.4	303.7	307.9	311.7	315.0	315.0
155°	263.2	271.2	278.7	284.8	287.7	290.5	294.7	298.0	300.8	300.8
157.5°	253.3	260.8	266.9	272.6	274.9	277.3	281.1	283.9	286.2	285.8
160°	243.9	249.5	255.2	259.9	262.2	264.1	266.9	269.3	271.6	271.2
162.5°	233.5	238.7	243.4	246.7	248.6	250.0	252.8	255.2	256.6	256.6
165°	221.7	226.5	230.7	234.0	235.9	236.8	239.2	240.6	242.0	242.0
167.5°	209.5	213.3	217.0	219.9	221.7	222.7	225.0	226.0	227.9	227.4
170°	197.3	200.1	202.9	205.3	206.2	207.1	209.0	210.0	210.9	210.9
172.5°	187.4	188.3	189.7	191.6	191.6	192.1	193.0	193.5	194.0	194.0
175°	181.7	182.2	182.2	182.2	182.2	182.2	182.7	182.2	182.7	182.2
177.5°	179.4	179.4	178.9	178.9	178.4	178.9	178.4	178.0	178.0	177.5
180°	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4

(END OF REPORT)