

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: P393792

Luminaire Tested: **I3-CL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393792
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-40L840-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

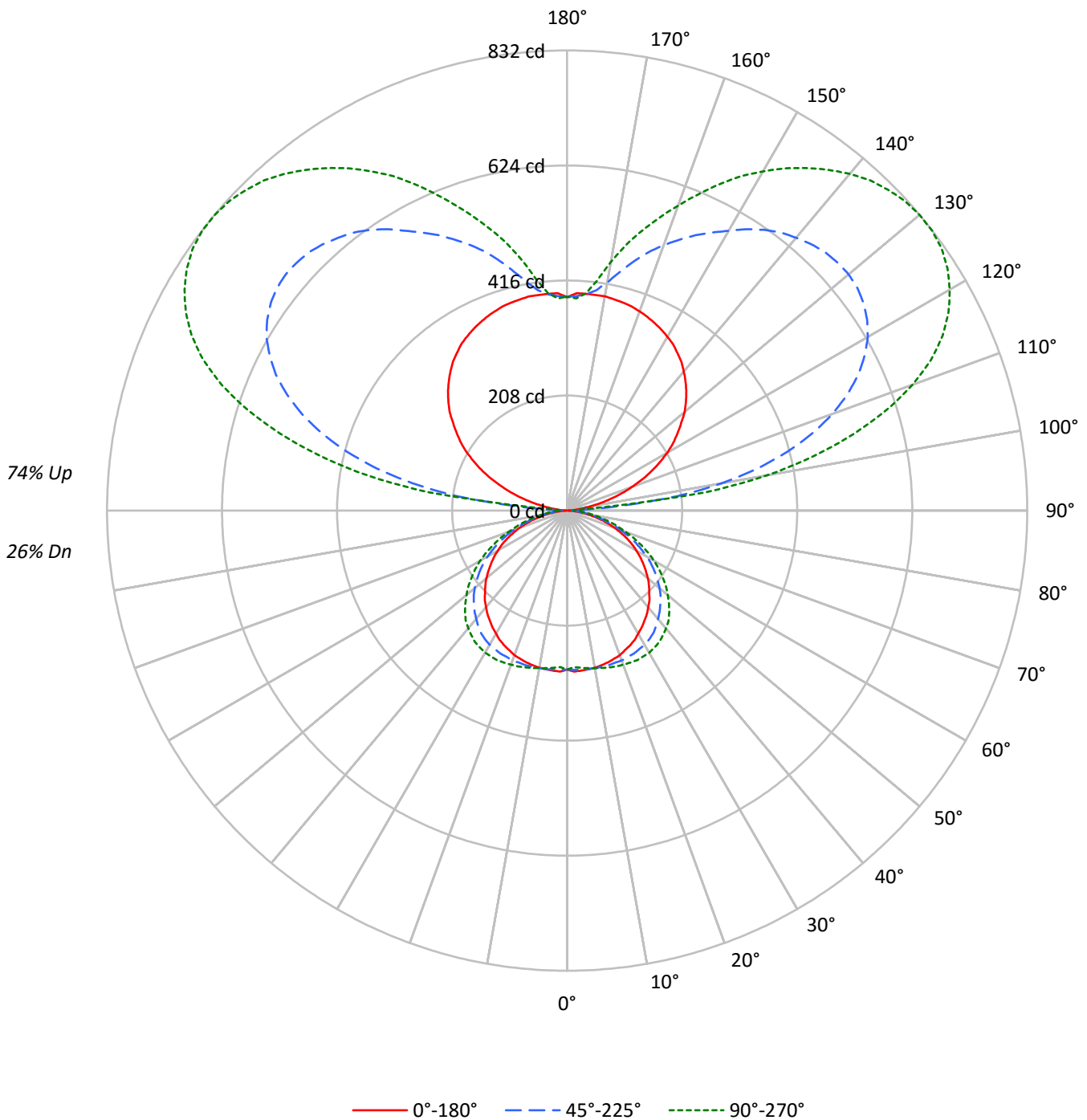
Lumens per Lamp: N/A
Luminaire Lumens: 3786.7 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): 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°	1580	1580	1580
5°	1596	1555	1530
10°	1598	1543	1526
15°	1600	1537	1533
20°	1602	1538	1547
25°	1600	1539	1567
30°	1591	1542	1578
35°	1587	1534	1580
40°	1582	1501	1560
45°	1565	1464	1521
50°	1551	1416	1453
55°	1519	1345	1369
60°	1481	1250	1264
65°	1421	1122	1121
70°	1319	956	949
75°	1140	760	762
80°	882	540	557
85°	518	334	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	0.7
10°-20°	81.7	2.2
20°-30°	131.0	3.5
30°-40°	167.5	4.4
40°-50°	182.6	4.8
50°-60°	171.1	4.5
60°-70°	132.8	3.5
70°-80°	76.1	2.0
80°-90°	24.3	0.6
90°-100°	97.7	2.6
100°-110°	379.7	10.0
110°-120°	516.9	13.6
120°-130°	536.5	14.2
130°-140°	475.9	12.6
140°-150°	369.3	9.8
150°-160°	246.4	6.5
160°-170°	131.4	3.5
170°-180°	38.4	1.0
0°-30°	240.1	6.3
0°-40°	407.6	10.8
0°-60°	761.4	20.1
0°-90°	994.5	26.3
90°-120°	994.2	26.3
90°-150°	2376.0	62.7
90°-180°	2792.0	73.7
0°-180°	3786.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	287	287	287	287	287	
5°	290	287	288	287	285	28
15°	284	283	289	294	294	80
25°	269	271	285	296	299	124
35°	244	249	271	285	290	152
45°	210	219	238	254	261	162
55°	168	177	194	207	211	150
65°	119	124	136	145	148	118
75°	62	65	71	78	80	66
85°	12	14	21	28	28	15
90°	1	3	7	10	12	1
95°	12	69	95	19	18	16
105°	80	244	413	490	537	86
115°	168	376	581	683	749	166
125°	244	443	654	768	826	218
135°	305	467	660	774	820	235
145°	348	467	620	719	756	218
155°	374	441	549	623	651	173
165°	389	406	467	510	524	110
175°	393	391	392	394	394	38
180°	386	386	386	386	386	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4
2.5°	291.4	290.4	290.4	288.4	288.4	287.4	287.4	287.4	287.4	287.4	288.4
5°	290.4	290.4	289.4	288.4	288.4	287.4	287.4	287.4	287.4	287.4	288.4
7.5°	289.4	289.4	288.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	289.4
10°	288.4	288.4	287.4	286.3	286.3	286.3	286.3	287.4	287.4	287.4	289.4
12.5°	286.3	285.3	285.3	284.3	284.3	284.3	285.3	285.3	286.3	287.4	289.4
15°	284.3	284.3	283.3	282.3	283.3	283.3	283.3	284.3	285.3	286.3	289.4
17.5°	281.2	281.2	280.2	280.2	280.2	281.2	281.2	282.3	284.3	286.3	288.4
20°	278.2	277.2	277.2	277.2	278.2	278.2	279.2	281.2	282.3	285.3	288.4
22.5°	273.1	274.1	273.1	273.1	274.1	275.1	276.1	278.2	280.2	283.3	286.3
25°	269.0	269.0	269.0	269.0	271.1	271.1	273.1	275.1	278.2	281.2	285.3
27.5°	263.9	263.9	263.9	264.9	266.0	267.0	268.0	271.1	274.1	278.2	282.3
30°	256.8	256.8	256.8	256.8	259.8	260.9	262.9	267.0	270.0	275.1	280.2
32.5°	250.7	250.7	250.7	251.7	253.7	254.7	256.8	261.9	266.0	271.1	276.1
35°	243.5	243.5	244.6	244.6	247.6	248.6	250.7	254.7	258.8	264.9	271.1
37.5°	236.4	236.4	237.4	238.4	240.5	242.5	244.6	248.6	252.7	257.8	263.9
40°	228.3	228.3	229.3	230.3	233.4	235.4	237.4	241.5	245.6	250.7	255.8
42.5°	220.1	220.1	221.1	222.1	225.2	227.2	229.3	234.4	238.4	243.5	247.6
45°	209.9	210.9	212.0	214.0	217.0	219.1	221.1	225.2	230.3	234.4	238.4
47.5°	200.7	201.8	202.8	204.8	207.9	209.9	212.0	216.0	220.1	224.2	229.3
50°	190.6	191.6	192.6	194.6	197.7	199.7	201.8	205.8	209.9	213.0	218.1
52.5°	179.3	180.4	181.4	183.4	187.5	188.5	190.6	194.6	197.7	201.8	205.8
55°	168.1	169.2	170.2	172.2	175.3	177.3	178.3	182.4	185.5	189.5	193.6
57.5°	156.9	157.9	159.0	161.0	163.0	165.1	166.1	169.2	173.2	176.3	180.4
60°	144.7	145.7	146.7	147.8	150.8	151.8	152.8	155.9	159.0	163.0	166.1
62.5°	132.5	132.5	133.5	134.5	137.6	138.6	139.6	141.6	145.7	147.8	150.8
65°	119.2	119.2	120.2	121.3	123.3	124.3	125.3	127.4	130.4	132.5	135.5
67.5°	105.0	105.0	106.0	107.0	109.0	110.1	110.1	113.1	115.1	117.2	119.2
70°	91.7	91.7	92.7	92.7	93.7	94.8	95.8	97.8	98.8	101.9	102.9
72.5°	77.4	77.4	77.4	77.4	79.5	79.5	80.5	82.5	83.6	85.6	87.6
75°	62.2	62.2	63.2	63.2	64.2	65.2	66.2	67.3	69.3	70.3	71.3
77.5°	48.9	47.9	48.9	49.9	50.9	50.9	52.0	53.0	54.0	56.0	57.1
80°	34.6	34.6	34.6	35.7	36.7	36.7	37.7	38.7	39.7	41.8	42.8
82.5°	22.4	22.4	23.4	23.4	24.5	25.5	25.5	26.5	27.5	29.6	30.6
85°	12.2	12.2	12.2	13.2	14.3	14.3	15.3	16.3	18.3	19.4	21.4
87.5°	4.1	4.1	5.1	6.1	7.1	7.1	8.2	9.2	10.2	12.2	13.2
90°	1.0	1.0	1.0	2.0	2.0	3.1	3.1	4.1	5.1	6.1	7.1
92.5°	4.1	7.1	11.2	16.3	15.3	16.3	11.2	7.1	7.1	7.1	8.2
95°	12.2	18.3	29.6	46.9	61.1	69.3	76.4	83.6	97.8	98.8	94.8
97.5°	24.5	33.6	54.0	76.4	101.9	115.1	125.3	146.7	169.2	183.4	200.7
100°	40.8	54.0	80.5	111.1	140.6	157.9	174.2	204.8	232.3	256.8	283.3
102.5°	60.1	75.4	108.0	145.7	182.4	201.8	219.1	254.7	292.5	325.1	353.6
105°	80.5	97.8	136.5	179.3	221.1	243.5	264.9	303.7	343.4	379.1	412.7
107.5°	102.9	121.3	163.0	210.9	257.8	283.3	306.7	348.5	390.3	429.0	464.7
110°	124.3	144.7	188.5	240.5	293.5	318.9	342.4	388.2	432.1	472.8	510.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	146.7	168.1	212.0	269.0	323.0	349.5	374.0	422.9	468.7	510.5	548.2
115°	168.1	188.5	234.4	293.5	348.5	376.0	402.5	452.4	500.3	542.1	580.8
117.5°	188.5	207.9	254.7	313.9	370.9	398.4	424.9	476.9	524.8	568.6	606.3
120°	208.9	226.2	277.2	331.2	389.3	416.8	444.3	496.3	545.2	589.0	627.7
122.5°	227.2	243.5	293.5	346.5	403.5	432.1	458.5	511.5	561.5	605.3	643.0
125°	243.5	258.8	308.8	358.7	415.8	443.3	470.8	522.7	572.7	615.5	654.2
127.5°	259.8	275.1	320.0	370.9	423.9	452.4	478.9	530.9	579.8	623.6	661.3
130°	277.2	288.4	331.2	382.1	432.1	458.5	486.1	536.0	583.9	626.7	664.4
132.5°	291.4	301.6	342.4	391.3	438.2	463.6	488.1	538.0	585.9	626.7	663.4
135°	304.7	312.8	350.5	399.4	443.3	466.7	490.1	537.0	583.9	624.6	660.3
137.5°	316.9	325.1	357.7	405.6	447.3	467.7	490.1	534.0	578.8	619.6	653.2
140°	328.1	334.2	363.8	408.6	449.4	468.7	488.1	528.9	570.6	610.4	644.0
142.5°	339.3	344.4	368.9	410.7	450.4	468.7	487.1	522.7	561.5	600.2	633.8
145°	347.5	352.6	373.0	411.7	449.4	466.7	483.0	516.6	551.3	586.9	619.6
147.5°	356.6	360.7	377.0	409.6	446.3	462.6	477.9	508.5	540.1	572.7	603.2
150°	362.8	366.8	379.1	407.6	441.2	456.5	471.8	500.3	528.9	557.4	583.9
152.5°	368.9	371.9	382.1	404.5	435.1	449.4	463.6	491.2	517.7	543.1	566.6
155°	374.0	377.0	384.2	402.5	428.0	441.2	454.5	481.0	505.4	527.8	549.2
157.5°	379.1	381.1	386.2	399.4	419.8	432.1	444.3	467.7	490.1	512.6	529.9
160°	383.1	384.2	388.2	398.4	412.7	421.9	433.1	454.5	474.9	494.2	510.5
162.5°	387.2	387.2	390.3	396.4	406.6	412.7	420.8	439.2	457.5	474.9	490.1
165°	389.3	389.3	391.3	395.4	401.5	405.6	410.7	422.9	437.2	452.4	466.7
167.5°	391.3	391.3	392.3	394.4	398.4	400.5	402.5	410.7	419.8	431.0	442.2
170°	393.3	392.3	392.3	394.4	395.4	396.4	397.4	401.5	405.6	412.7	418.8
172.5°	393.3	392.3	392.3	393.3	393.3	393.3	393.3	394.4	395.4	399.4	401.5
175°	393.3	392.3	392.3	392.3	392.3	391.3	391.3	391.3	391.3	391.3	392.3
177.5°	393.3	392.3	391.3	391.3	390.3	390.3	389.3	389.3	388.2	388.2	388.2
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4
2.5°	288.4	288.4	287.4	287.4	286.3	286.3	285.3	284.3	283.3	283.3
5°	289.4	288.4	287.4	287.4	287.4	286.3	286.3	286.3	285.3	285.3
7.5°	289.4	289.4	289.4	288.4	288.4	288.4	288.4	288.4	287.4	287.4
10°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	289.4	289.4	289.4
12.5°	290.4	290.4	290.4	291.4	291.4	291.4	291.4	291.4	291.4	291.4
15°	291.4	291.4	292.5	292.5	293.5	293.5	294.5	294.5	294.5	293.5
17.5°	290.4	291.4	292.5	293.5	294.5	294.5	295.5	295.5	295.5	295.5
20°	290.4	292.5	293.5	294.5	295.5	295.5	296.5	297.5	297.5	296.5
22.5°	289.4	291.4	292.5	294.5	295.5	295.5	297.5	297.5	297.5	297.5
25°	288.4	290.4	292.5	294.5	295.5	295.5	297.5	297.5	298.6	298.6
27.5°	286.3	288.4	291.4	293.5	294.5	295.5	296.5	297.5	297.5	297.5
30°	283.3	286.3	289.4	291.4	292.5	293.5	294.5	295.5	296.5	296.5
32.5°	279.2	282.3	285.3	288.4	289.4	290.4	292.5	293.5	293.5	293.5
35°	275.1	278.2	281.2	284.3	285.3	286.3	288.4	289.4	290.4	290.4
37.5°	269.0	272.1	275.1	278.2	279.2	281.2	283.3	284.3	284.3	284.3
40°	259.8	264.9	269.0	272.1	273.1	275.1	276.1	278.2	278.2	278.2
42.5°	251.7	255.8	258.8	262.9	263.9	267.0	269.0	270.0	271.1	271.1
45°	242.5	246.6	249.7	252.7	253.7	255.8	257.8	258.8	259.8	260.9
47.5°	233.4	236.4	239.5	242.5	243.5	245.6	247.6	248.6	249.7	249.7
50°	222.1	225.2	228.3	231.3	232.3	234.4	235.4	236.4	237.4	237.4
52.5°	209.9	213.0	216.0	219.1	220.1	221.1	223.2	224.2	225.2	225.2
55°	197.7	200.7	202.8	205.8	206.9	207.9	208.9	210.9	212.0	210.9
57.5°	183.4	186.5	188.5	191.6	192.6	193.6	194.6	195.6	196.7	196.7
60°	168.1	171.2	174.2	176.3	177.3	178.3	179.3	180.4	181.4	181.4
62.5°	152.8	155.9	157.9	161.0	162.0	162.0	163.0	164.1	165.1	165.1
65°	137.6	140.6	141.6	144.7	144.7	145.7	146.7	147.8	147.8	147.8
67.5°	121.3	124.3	125.3	127.4	127.4	128.4	129.4	130.4	130.4	130.4
70°	106.0	107.0	109.0	110.1	111.1	111.1	112.1	113.1	114.1	113.1
72.5°	89.7	90.7	92.7	93.7	93.7	94.8	94.8	95.8	96.8	96.8
75°	73.4	75.4	76.4	77.4	78.5	78.5	79.5	80.5	80.5	80.5
77.5°	58.1	60.1	61.1	62.2	63.2	63.2	64.2	64.2	65.2	64.2
80°	44.8	45.9	46.9	47.9	48.9	48.9	49.9	50.9	50.9	50.9
82.5°	32.6	33.6	35.7	36.7	36.7	36.7	38.7	38.7	39.7	38.7
85°	22.4	23.4	25.5	26.5	27.5	27.5	27.5	28.5	29.6	28.5
87.5°	14.3	16.3	17.3	18.3	18.3	18.3	19.4	20.4	20.4	20.4
90°	8.2	8.2	9.2	10.2	10.2	11.2	11.2	12.2	12.2	12.2
92.5°	8.2	9.2	9.2	9.2	10.2	10.2	10.2	11.2	11.2	11.2
95°	69.3	49.9	28.5	22.4	19.4	19.4	18.3	19.4	18.3	18.3
97.5°	209.9	227.2	235.4	246.6	252.7	251.7	247.6	251.7	248.6	251.7
100°	298.6	314.9	327.1	330.2	336.3	339.3	350.5	358.7	362.8	367.9
102.5°	370.9	390.3	404.5	412.7	418.8	422.9	436.1	448.4	454.5	458.5
105°	437.2	457.5	474.9	483.0	490.1	494.2	508.5	522.7	531.9	537.0
107.5°	490.1	513.6	531.9	544.1	551.3	558.4	575.7	590.0	601.2	606.3
110°	538.0	561.5	580.8	595.1	603.2	610.4	629.7	646.0	658.3	664.4



TEST NUMBER: P393792

CATALOG NUMBER: I3-CL-40L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	577.8	603.2	622.6	637.9	646.0	656.2	674.6	692.9	705.1	712.3
115°	610.4	636.9	657.3	673.6	682.7	691.9	713.3	731.6	743.9	749.0
117.5°	637.9	664.4	685.8	702.1	712.3	722.5	743.9	760.2	773.4	777.5
120°	660.3	686.8	708.2	726.5	736.7	745.9	766.3	783.6	795.8	798.9
122.5°	675.6	703.1	725.5	745.9	755.1	764.2	783.6	800.9	812.1	815.2
125°	686.8	715.3	737.8	759.2	768.3	777.5	795.8	813.2	822.3	826.4
127.5°	693.9	722.5	746.9	767.3	777.5	785.6	804.0	819.3	828.4	831.5
130°	696.0	725.5	750.0	771.4	780.6	788.7	806.0	821.3	829.5	831.5
132.5°	696.0	724.5	750.0	770.4	779.5	787.7	804.0	818.3	826.4	828.4
135°	691.9	719.4	744.9	765.3	774.4	782.6	798.9	811.1	819.3	820.3
137.5°	684.8	711.3	735.7	756.1	765.3	773.4	787.7	800.9	808.1	810.1
140°	675.6	700.1	724.5	743.9	753.0	760.2	774.4	785.6	792.8	794.8
142.5°	663.4	687.8	710.2	729.6	736.7	744.9	757.1	768.3	774.4	776.5
145°	650.1	673.6	693.9	711.3	719.4	726.5	737.8	747.9	754.1	756.1
147.5°	632.8	656.2	675.6	691.9	699.0	706.2	716.4	725.5	731.6	733.7
150°	611.4	632.8	653.2	668.5	675.6	682.7	692.9	701.1	707.2	708.2
152.5°	590.0	610.4	627.7	643.0	650.1	657.3	666.4	674.6	681.7	681.7
155°	569.6	586.9	603.2	616.5	622.6	628.7	637.9	645.0	651.1	651.1
157.5°	548.2	564.5	577.8	590.0	595.1	600.2	608.3	614.5	619.6	618.5
160°	527.8	540.1	552.3	562.5	567.6	571.7	577.8	582.9	588.0	586.9
162.5°	505.4	516.6	526.8	534.0	538.0	541.1	547.2	552.3	555.4	555.4
165°	479.9	490.1	499.3	506.4	510.5	512.6	517.7	520.7	523.8	523.8
167.5°	453.5	461.6	469.8	475.9	479.9	482.0	487.1	489.1	493.2	492.2
170°	427.0	433.1	439.2	444.3	446.3	448.4	452.4	454.5	456.5	456.5
172.5°	405.6	407.6	410.7	414.7	414.7	415.8	417.8	418.8	419.8	419.8
175°	393.3	394.4	394.4	394.4	394.4	394.4	395.4	394.4	395.4	394.4
177.5°	388.2	388.2	387.2	387.2	386.2	387.2	386.2	385.2	385.2	384.2
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2

(END OF REPORT)