

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: P393790

Luminaire Tested: **I3-CL-40L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393790
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-40L830-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

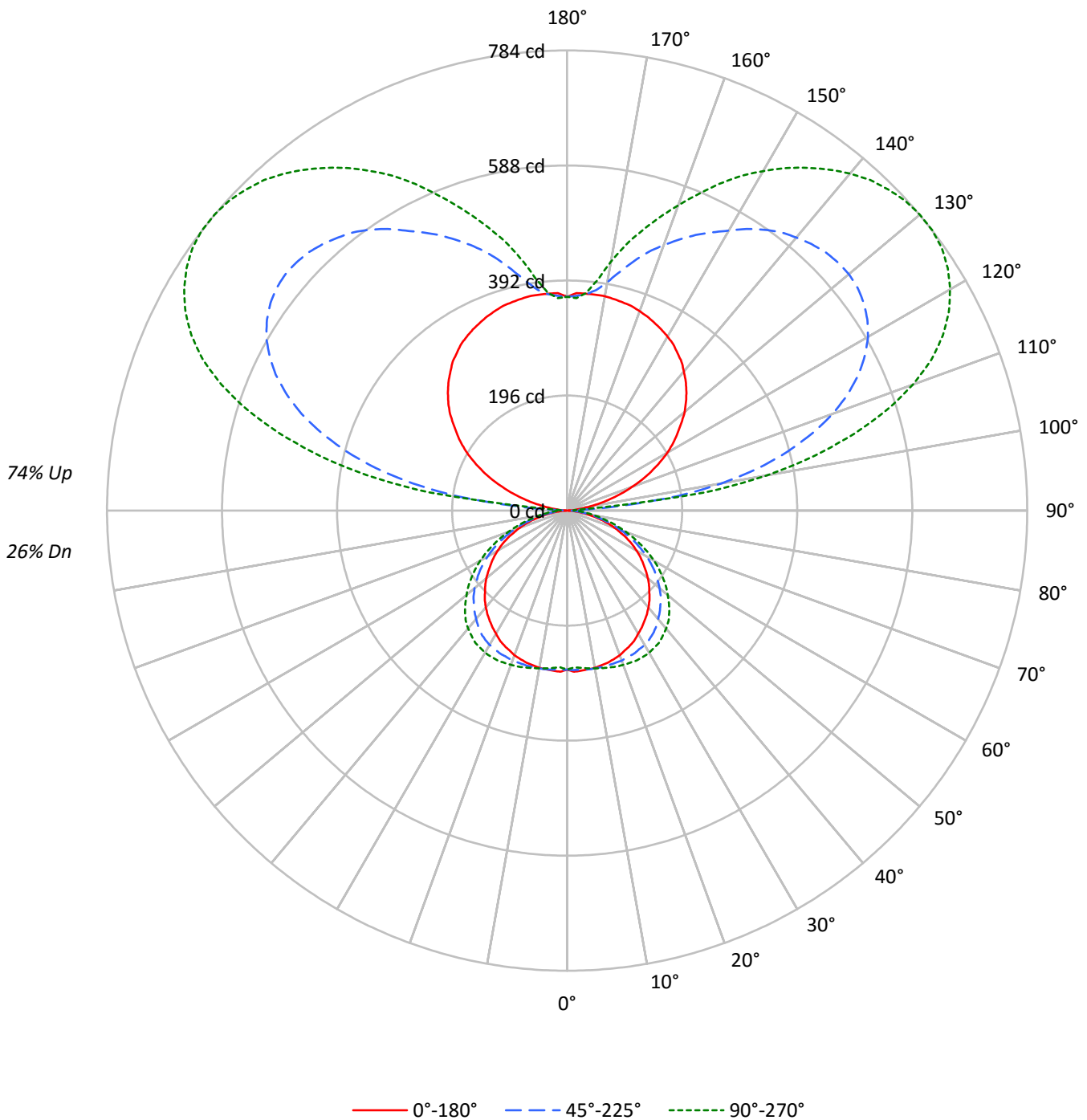
Lumens per Lamp: N/A
Luminaire Lumens: 3571.2 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (A_{in}): 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°	1490	1490	1490
5°	1506	1467	1443
10°	1507	1455	1439
15°	1508	1450	1446
20°	1511	1451	1459
25°	1509	1452	1478
30°	1500	1454	1489
35°	1497	1446	1490
40°	1492	1415	1471
45°	1476	1381	1434
50°	1462	1336	1370
55°	1433	1268	1291
60°	1398	1179	1192
65°	1340	1059	1056
70°	1245	902	895
75°	1074	718	718
80°	834	510	526
85°	488	315	353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	0.7
10°-20°	77.0	2.2
20°-30°	123.5	3.5
30°-40°	158.0	4.4
40°-50°	172.2	4.8
50°-60°	161.4	4.5
60°-70°	125.2	3.5
70°-80°	71.8	2.0
80°-90°	22.9	0.6
90°-100°	92.1	2.6
100°-110°	358.1	10.0
110°-120°	487.5	13.6
120°-130°	506.0	14.2
130°-140°	448.9	12.6
140°-150°	348.3	9.8
150°-160°	232.4	6.5
160°-170°	123.9	3.5
170°-180°	36.2	1.0
0°-30°	226.5	6.3
0°-40°	384.4	10.8
0°-60°	718.0	20.1
0°-90°	937.9	26.3
90°-120°	937.6	26.3
90°-150°	2240.7	62.7
90°-180°	2633.0	73.7
0°-180°	3571.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	271	271	271	271	271	
5°	274	271	272	271	269	26
15°	268	267	273	277	277	76
25°	254	256	269	279	282	117
35°	230	234	256	269	274	144
45°	198	207	225	239	246	153
55°	159	167	183	195	199	142
65°	112	117	128	136	139	111
75°	59	62	67	74	76	63
85°	12	14	20	26	27	14
90°	1	3	7	10	12	1
95°	12	65	89	18	17	15
105°	76	230	389	462	506	81
115°	159	355	548	644	706	156
125°	230	418	617	725	779	205
135°	287	440	623	730	774	221
145°	328	440	584	678	713	205
155°	353	416	518	587	614	163
165°	367	382	440	482	494	104
175°	371	369	370	372	372	35
180°	364	364	364	364	364	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0
2.5°	274.8	273.9	273.9	272.0	272.0	271.0	271.0	271.0	271.0	271.0	272.0
5°	273.9	273.9	272.9	272.0	272.0	271.0	271.0	271.0	271.0	271.0	272.0
7.5°	272.9	272.9	272.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	272.9
10°	272.0	272.0	271.0	270.0	270.0	270.0	270.0	271.0	271.0	271.0	272.9
12.5°	270.0	269.1	269.1	268.1	268.1	268.1	269.1	269.1	270.0	271.0	272.9
15°	268.1	268.1	267.2	266.2	267.2	267.2	267.2	268.1	269.1	270.0	272.9
17.5°	265.2	265.2	264.3	264.3	264.3	265.2	265.2	266.2	268.1	270.0	272.0
20°	262.4	261.4	261.4	261.4	262.4	262.4	263.3	265.2	266.2	269.1	272.0
22.5°	257.5	258.5	257.5	257.5	258.5	259.5	260.4	262.4	264.3	267.2	270.0
25°	253.7	253.7	253.7	253.7	255.6	255.6	257.5	259.5	262.4	265.2	269.1
27.5°	248.9	248.9	248.9	249.9	250.8	251.8	252.7	255.6	258.5	262.4	266.2
30°	242.2	242.2	242.2	242.2	245.1	246.0	247.9	251.8	254.7	259.5	264.3
32.5°	236.4	236.4	236.4	237.4	239.3	240.2	242.2	247.0	250.8	255.6	260.4
35°	229.7	229.7	230.6	230.6	233.5	234.5	236.4	240.2	244.1	249.9	255.6
37.5°	223.0	223.0	223.9	224.9	226.8	228.7	230.6	234.5	238.3	243.1	248.9
40°	215.3	215.3	216.2	217.2	220.1	222.0	223.9	227.8	231.6	236.4	241.2
42.5°	207.6	207.6	208.5	209.5	212.4	214.3	216.2	221.0	224.9	229.7	233.5
45°	198.0	198.9	199.9	201.8	204.7	206.6	208.5	212.4	217.2	221.0	224.9
47.5°	189.3	190.3	191.2	193.2	196.0	198.0	199.9	203.7	207.6	211.4	216.2
50°	179.7	180.7	181.6	183.6	186.4	188.4	190.3	194.1	198.0	200.8	205.7
52.5°	169.1	170.1	171.1	173.0	176.8	177.8	179.7	183.6	186.4	190.3	194.1
55°	158.6	159.5	160.5	162.4	165.3	167.2	168.2	172.0	174.9	178.7	182.6
57.5°	148.0	149.0	149.9	151.8	153.8	155.7	156.6	159.5	163.4	166.3	170.1
60°	136.5	137.4	138.4	139.3	142.2	143.2	144.1	147.0	149.9	153.8	156.6
62.5°	124.9	124.9	125.9	126.9	129.7	130.7	131.7	133.6	137.4	139.3	142.2
65°	112.4	112.4	113.4	114.4	116.3	117.2	118.2	120.1	123.0	124.9	127.8
67.5°	99.0	99.0	99.9	100.9	102.8	103.8	103.8	106.7	108.6	110.5	112.4
70°	86.5	86.5	87.5	87.5	88.4	89.4	90.3	92.3	93.2	96.1	97.1
72.5°	73.0	73.0	73.0	73.0	75.0	75.0	75.9	77.8	78.8	80.7	82.6
75°	58.6	58.6	59.6	59.6	60.5	61.5	62.5	63.4	65.3	66.3	67.3
77.5°	46.1	45.2	46.1	47.1	48.0	48.0	49.0	50.0	50.9	52.9	53.8
80°	32.7	32.7	32.7	33.6	34.6	34.6	35.6	36.5	37.5	39.4	40.4
82.5°	21.1	21.1	22.1	22.1	23.1	24.0	24.0	25.0	25.9	27.9	28.8
85°	11.5	11.5	11.5	12.5	13.5	13.5	14.4	15.4	17.3	18.3	20.2
87.5°	3.8	3.8	4.8	5.8	6.7	6.7	7.7	8.6	9.6	11.5	12.5
90°	1.0	1.0	1.0	1.9	1.9	2.9	2.9	3.8	4.8	5.8	6.7
92.5°	3.8	6.7	10.6	15.4	14.4	15.4	10.6	6.7	6.7	6.7	7.7
95°	11.5	17.3	27.9	44.2	57.7	65.3	72.1	78.8	92.3	93.2	89.4
97.5°	23.1	31.7	50.9	72.1	96.1	108.6	118.2	138.4	159.5	173.0	189.3
100°	38.4	50.9	75.9	104.7	132.6	149.0	164.3	193.2	219.1	242.2	267.2
102.5°	56.7	71.1	101.9	137.4	172.0	190.3	206.6	240.2	275.8	306.6	333.5
105°	75.9	92.3	128.8	169.1	208.5	229.7	249.9	286.4	323.9	357.5	389.2
107.5°	97.1	114.4	153.8	198.9	243.1	267.2	289.3	328.7	368.1	404.6	438.2
110°	117.2	136.5	177.8	226.8	276.8	300.8	322.9	366.1	407.5	445.9	481.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	138.4	158.6	199.9	253.7	304.6	329.6	352.7	398.8	442.1	481.5	517.0
115°	158.6	177.8	221.0	276.8	328.7	354.6	379.6	426.7	471.9	511.3	547.8
117.5°	177.8	196.0	240.2	296.0	349.8	375.8	400.7	449.7	494.9	536.2	571.8
120°	197.0	213.3	261.4	312.3	367.1	393.0	419.0	468.0	514.1	555.5	592.0
122.5°	214.3	229.7	276.8	326.7	380.6	407.5	432.4	482.4	529.5	570.8	606.4
125°	229.7	244.1	291.2	338.3	392.1	418.0	444.0	493.0	540.1	580.4	617.0
127.5°	245.1	259.5	301.8	349.8	399.8	426.7	451.7	500.7	546.8	588.1	623.7
130°	261.4	272.0	312.3	360.4	407.5	432.4	458.4	505.5	550.7	591.0	626.6
132.5°	274.8	284.5	322.9	369.0	413.2	437.3	460.3	507.4	552.6	591.0	625.6
135°	287.3	295.0	330.6	376.7	418.0	440.1	462.2	506.4	550.7	589.1	622.7
137.5°	298.9	306.6	337.3	382.5	421.9	441.1	462.2	503.6	545.8	584.3	616.0
140°	309.4	315.2	343.1	385.4	423.8	442.1	460.3	498.8	538.2	575.6	607.4
142.5°	320.0	324.8	347.9	387.3	424.8	442.1	459.4	493.0	529.5	566.0	597.7
145°	327.7	332.5	351.7	388.2	423.8	440.1	455.5	487.2	519.9	553.5	584.3
147.5°	336.3	340.2	355.6	386.3	420.9	436.3	450.7	479.5	509.3	540.1	568.9
150°	342.1	346.0	357.5	384.4	416.1	430.5	444.9	471.9	498.8	525.7	550.7
152.5°	347.9	350.8	360.4	381.5	410.3	423.8	437.3	463.2	488.2	512.2	534.3
155°	352.7	355.6	362.3	379.6	403.6	416.1	428.6	453.6	476.7	497.8	518.0
157.5°	357.5	359.4	364.2	376.7	395.9	407.5	419.0	441.1	462.2	483.4	499.7
160°	361.3	362.3	366.1	375.8	389.2	397.9	408.4	428.6	447.8	466.1	481.5
162.5°	365.2	365.2	368.1	373.8	383.4	389.2	396.9	414.2	431.5	447.8	462.2
165°	367.1	367.1	369.0	372.9	378.6	382.5	387.3	398.8	412.3	426.7	440.1
167.5°	369.0	369.0	370.0	371.9	375.8	377.7	379.6	387.3	395.9	406.5	417.1
170°	370.9	370.0	370.0	371.9	372.9	373.8	374.8	378.6	382.5	389.2	395.0
172.5°	370.9	370.0	370.0	370.9	370.9	370.9	370.9	371.9	372.9	376.7	378.6
175°	370.9	370.0	370.0	370.0	370.0	369.0	369.0	369.0	369.0	369.0	370.0
177.5°	370.9	370.0	369.0	369.0	368.1	368.1	367.1	367.1	366.1	366.1	366.1
180°	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0	271.0
2.5°	272.0	272.0	271.0	271.0	270.0	270.0	269.1	268.1	267.2	267.2
5°	272.9	272.0	271.0	271.0	271.0	270.0	270.0	270.0	269.1	269.1
7.5°	272.9	272.9	272.9	272.0	272.0	272.0	272.0	272.0	271.0	271.0
10°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	272.9	272.9	272.9
12.5°	273.9	273.9	273.9	274.8	274.8	274.8	274.8	274.8	274.8	274.8
15°	274.8	274.8	275.8	275.8	276.8	276.8	277.7	277.7	277.7	276.8
17.5°	273.9	274.8	275.8	276.8	277.7	277.7	278.7	278.7	278.7	278.7
20°	273.9	275.8	276.8	277.7	278.7	278.7	279.7	280.6	280.6	279.7
22.5°	272.9	274.8	275.8	277.7	278.7	278.7	280.6	280.6	280.6	280.6
25°	272.0	273.9	275.8	277.7	278.7	278.7	280.6	280.6	281.6	281.6
27.5°	270.0	272.0	274.8	276.8	277.7	278.7	279.7	280.6	280.6	280.6
30°	267.2	270.0	272.9	274.8	275.8	276.8	277.7	278.7	279.7	279.7
32.5°	263.3	266.2	269.1	272.0	272.9	273.9	275.8	276.8	276.8	276.8
35°	259.5	262.4	265.2	268.1	269.1	270.0	272.0	272.9	273.9	273.9
37.5°	253.7	256.6	259.5	262.4	263.3	265.2	267.2	268.1	268.1	268.1
40°	245.1	249.9	253.7	256.6	257.5	259.5	260.4	262.4	262.4	262.4
42.5°	237.4	241.2	244.1	247.9	248.9	251.8	253.7	254.7	255.6	255.6
45°	228.7	232.6	235.4	238.3	239.3	241.2	243.1	244.1	245.1	246.0
47.5°	220.1	223.0	225.8	228.7	229.7	231.6	233.5	234.5	235.4	235.4
50°	209.5	212.4	215.3	218.1	219.1	221.0	222.0	223.0	223.9	223.9
52.5°	198.0	200.8	203.7	206.6	207.6	208.5	210.5	211.4	212.4	212.4
55°	186.4	189.3	191.2	194.1	195.1	196.0	197.0	198.9	199.9	198.9
57.5°	173.0	175.9	177.8	180.7	181.6	182.6	183.6	184.5	185.5	185.5
60°	158.6	161.4	164.3	166.3	167.2	168.2	169.1	170.1	171.1	171.1
62.5°	144.1	147.0	149.0	151.8	152.8	152.8	153.8	154.7	155.7	155.7
65°	129.7	132.6	133.6	136.5	136.5	137.4	138.4	139.3	139.3	139.3
67.5°	114.4	117.2	118.2	120.1	120.1	121.1	122.0	123.0	123.0	123.0
70°	99.9	100.9	102.8	103.8	104.7	104.7	105.7	106.7	107.6	106.7
72.5°	84.6	85.5	87.5	88.4	88.4	89.4	89.4	90.3	91.3	91.3
75°	69.2	71.1	72.1	73.0	74.0	74.0	75.0	75.9	75.9	75.9
77.5°	54.8	56.7	57.7	58.6	59.6	59.6	60.5	60.5	61.5	60.5
80°	42.3	43.2	44.2	45.2	46.1	46.1	47.1	48.0	48.0	48.0
82.5°	30.8	31.7	33.6	34.6	34.6	34.6	36.5	36.5	37.5	36.5
85°	21.1	22.1	24.0	25.0	25.9	25.9	25.9	26.9	27.9	26.9
87.5°	13.5	15.4	16.3	17.3	17.3	17.3	18.3	19.2	19.2	19.2
90°	7.7	7.7	8.6	9.6	9.6	10.6	10.6	11.5	11.5	11.5
92.5°	7.7	8.6	8.6	8.6	9.6	9.6	9.6	10.6	10.6	10.6
95°	65.3	47.1	26.9	21.1	18.3	18.3	17.3	18.3	17.3	17.3
97.5°	198.0	214.3	222.0	232.6	238.3	237.4	233.5	237.4	234.5	237.4
100°	281.6	296.9	308.5	311.4	317.1	320.0	330.6	338.3	342.1	346.9
102.5°	349.8	368.1	381.5	389.2	395.0	398.8	411.3	422.8	428.6	432.4
105°	412.3	431.5	447.8	455.5	462.2	466.1	479.5	493.0	501.6	506.4
107.5°	462.2	484.3	501.6	513.2	519.9	526.6	543.0	556.4	567.0	571.8
110°	507.4	529.5	547.8	561.2	568.9	575.6	593.9	609.3	620.8	626.6



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CATALOG NUMBER: I3-CL-40L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	544.9	568.9	587.2	601.6	609.3	618.9	636.2	653.5	665.0	671.7
115°	575.6	600.6	619.8	635.2	643.9	652.5	672.7	690.0	701.5	706.3
117.5°	601.6	626.6	646.8	662.1	671.7	681.3	701.5	716.9	729.4	733.2
120°	622.7	647.7	667.9	685.2	694.8	703.5	722.7	739.0	750.5	753.4
122.5°	637.1	663.1	684.2	703.5	712.1	720.7	739.0	755.3	765.9	768.8
125°	647.7	674.6	695.8	715.9	724.6	733.2	750.5	766.9	775.5	779.4
127.5°	654.4	681.3	704.4	723.6	733.2	740.9	758.2	772.6	781.3	784.2
130°	656.4	684.2	707.3	727.5	736.1	743.8	760.1	774.6	782.3	784.2
132.5°	656.4	683.3	707.3	726.5	735.2	742.9	758.2	771.7	779.4	781.3
135°	652.5	678.5	702.5	721.7	730.4	738.0	753.4	765.0	772.6	773.6
137.5°	645.8	670.8	693.8	713.1	721.7	729.4	742.9	755.3	762.1	764.0
140°	637.1	660.2	683.3	701.5	710.2	716.9	730.4	740.9	747.7	749.6
142.5°	625.6	648.7	669.8	688.1	694.8	702.5	714.0	724.6	730.4	732.3
145°	613.1	635.2	654.4	670.8	678.5	685.2	695.8	705.4	711.1	713.1
147.5°	596.8	618.9	637.1	652.5	659.2	666.0	675.6	684.2	690.0	691.9
150°	576.6	596.8	616.0	630.4	637.1	643.9	653.5	661.2	666.9	667.9
152.5°	556.4	575.6	592.0	606.4	613.1	619.8	628.5	636.2	642.9	642.9
155°	537.2	553.5	568.9	581.4	587.2	592.9	601.6	608.3	614.1	614.1
157.5°	517.0	532.4	544.9	556.4	561.2	566.0	573.7	579.5	584.3	583.3
160°	497.8	509.3	520.9	530.5	535.3	539.1	544.9	549.7	554.5	553.5
162.5°	476.7	487.2	496.8	503.6	507.4	510.3	516.1	520.9	523.7	523.7
165°	452.6	462.2	470.9	477.6	481.5	483.4	488.2	491.1	494.0	494.0
167.5°	427.6	435.3	443.0	448.8	452.6	454.6	459.4	461.3	465.1	464.2
170°	402.7	408.4	414.2	419.0	420.9	422.8	426.7	428.6	430.5	430.5
172.5°	382.5	384.4	387.3	391.1	391.1	392.1	394.0	395.0	395.9	395.9
175°	370.9	371.9	371.9	371.9	371.9	371.9	372.9	371.9	372.9	371.9
177.5°	366.1	366.1	365.2	365.2	364.2	365.2	364.2	363.3	363.3	362.3
180°	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)