

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: P395026

Luminaire Tested: **I3-CL-40L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395026
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-CL-40L940-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

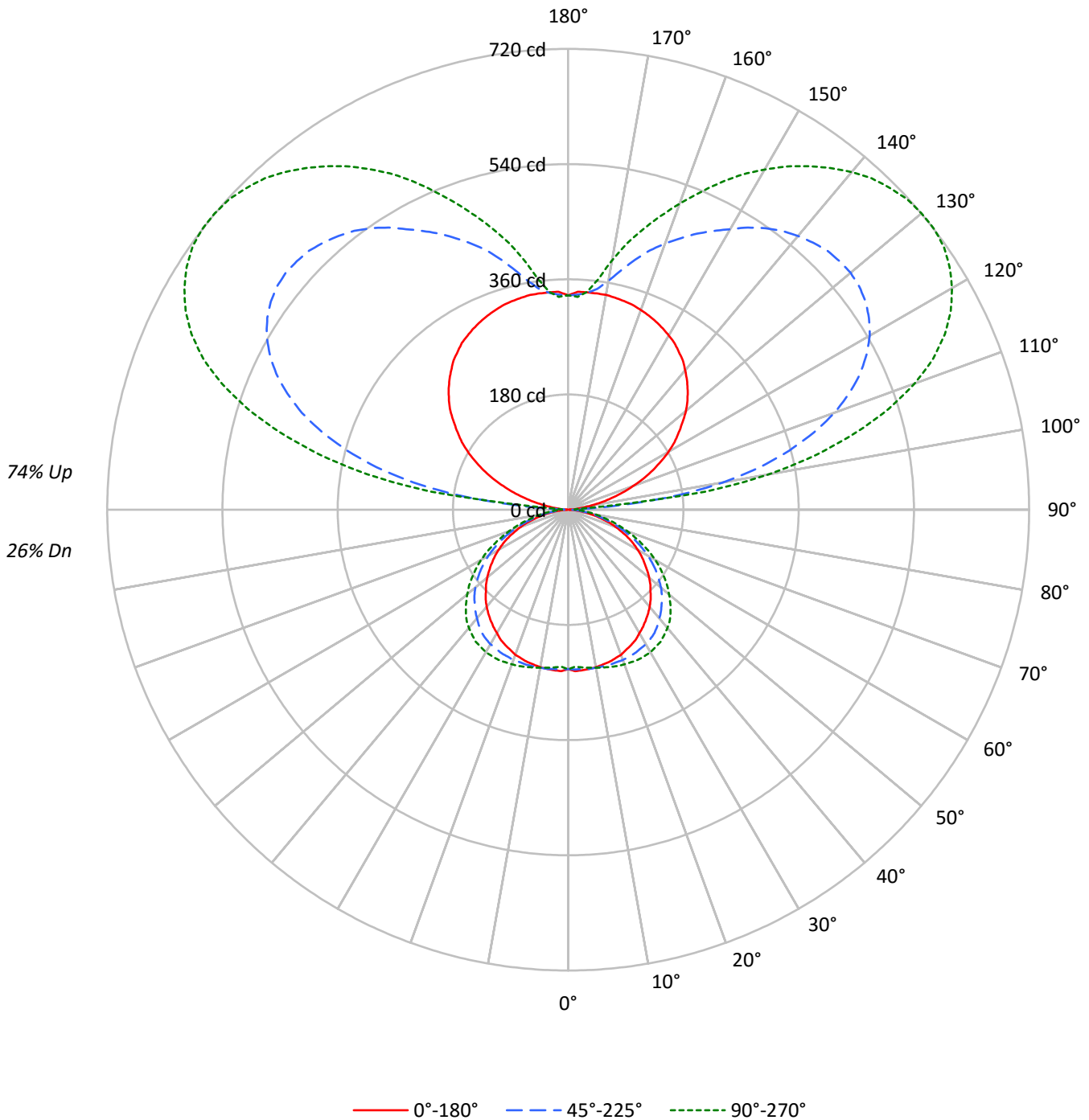
Lumens per Lamp: N/A
Luminaire Lumens: 3281.4 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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°	1369	1369	1369
5°	1384	1347	1325
10°	1384	1337	1322
15°	1386	1332	1328
20°	1389	1333	1341
25°	1386	1334	1358
30°	1378	1336	1368
35°	1375	1329	1369
40°	1370	1300	1352
45°	1356	1269	1318
50°	1344	1227	1259
55°	1316	1166	1187
60°	1284	1083	1096
65°	1231	973	971
70°	1144	828	822
75°	988	659	661
80°	765	468	484
85°	450	289	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	0.7
10°-20°	70.8	2.2
20°-30°	113.5	3.5
30°-40°	145.1	4.4
40°-50°	158.3	4.8
50°-60°	148.3	4.5
60°-70°	115.0	3.5
70°-80°	65.9	2.0
80°-90°	21.1	0.6
90°-100°	84.6	2.6
100°-110°	329.0	10.0
110°-120°	447.9	13.6
120°-130°	464.9	14.2
130°-140°	412.4	12.6
140°-150°	320.0	9.8
150°-160°	213.6	6.5
160°-170°	113.8	3.5
170°-180°	33.3	1.0
0°-30°	208.1	6.3
0°-40°	353.2	10.8
0°-60°	659.8	20.1
0°-90°	861.8	26.3
90°-120°	861.5	26.3
90°-150°	2058.9	62.7
90°-180°	2420.0	73.7
0°-180°	3281.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	249	249	249	249	249	
5°	252	249	250	249	247	24
15°	246	246	251	254	254	70
25°	233	235	247	256	259	107
35°	211	216	235	247	252	132
45°	182	190	207	220	226	141
55°	146	154	168	179	183	130
65°	103	108	117	125	128	102
75°	54	56	62	68	70	58
85°	11	12	18	24	25	13
90°	1	3	6	9	11	1
95°	11	60	82	17	16	14
105°	70	211	358	425	465	74
115°	146	326	503	592	649	144
125°	211	384	567	666	716	189
135°	264	404	572	671	711	203
145°	301	404	537	623	655	189
155°	324	382	476	540	564	150
165°	337	351	404	442	454	95
175°	341	339	340	342	342	33
180°	335	335	335	335	335	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0
2.5°	252.5	251.7	251.7	249.9	249.9	249.0	249.0	249.0	249.0	249.0	249.9
5°	251.7	251.7	250.8	249.9	249.9	249.0	249.0	249.0	249.0	249.0	249.9
7.5°	250.8	250.8	249.9	249.0	249.0	249.0	249.0	249.0	249.0	249.0	250.8
10°	249.9	249.9	249.0	248.1	248.1	248.1	248.1	249.0	249.0	249.0	250.8
12.5°	248.1	247.2	247.2	246.4	246.4	246.4	247.2	247.2	248.1	249.0	250.8
15°	246.4	246.4	245.5	244.6	245.5	245.5	245.5	246.4	247.2	248.1	250.8
17.5°	243.7	243.7	242.8	242.8	242.8	243.7	243.7	244.6	246.4	248.1	249.9
20°	241.1	240.2	240.2	240.2	241.1	241.1	241.9	243.7	244.6	247.2	249.9
22.5°	236.6	237.5	236.6	236.6	237.5	238.4	239.3	241.1	242.8	245.5	248.1
25°	233.1	233.1	233.1	233.1	234.9	234.9	236.6	238.4	241.1	243.7	247.2
27.5°	228.7	228.7	228.7	229.6	230.5	231.3	232.2	234.9	237.5	241.1	244.6
30°	222.5	222.5	222.5	222.5	225.2	226.0	227.8	231.3	234.0	238.4	242.8
32.5°	217.2	217.2	217.2	218.1	219.9	220.8	222.5	226.9	230.5	234.9	239.3
35°	211.0	211.0	211.9	211.9	214.6	215.5	217.2	220.8	224.3	229.6	234.9
37.5°	204.9	204.9	205.7	206.6	208.4	210.2	211.9	215.5	219.0	223.4	228.7
40°	197.8	197.8	198.7	199.6	202.2	204.0	205.7	209.3	212.8	217.2	221.6
42.5°	190.7	190.7	191.6	192.5	195.1	196.9	198.7	203.1	206.6	211.0	214.6
45°	181.9	182.8	183.7	185.4	188.1	189.8	191.6	195.1	199.6	203.1	206.6
47.5°	174.0	174.8	175.7	177.5	180.1	181.9	183.7	187.2	190.7	194.3	198.7
50°	165.1	166.0	166.9	168.7	171.3	173.1	174.8	178.4	181.9	184.5	189.0
52.5°	155.4	156.3	157.2	158.9	162.5	163.4	165.1	168.7	171.3	174.8	178.4
55°	145.7	146.6	147.5	149.2	151.9	153.6	154.5	158.1	160.7	164.2	167.8
57.5°	136.0	136.9	137.7	139.5	141.3	143.0	143.9	146.6	150.1	152.8	156.3
60°	125.4	126.3	127.2	128.0	130.7	131.6	132.4	135.1	137.7	141.3	143.9
62.5°	114.8	114.8	115.7	116.6	119.2	120.1	121.0	122.7	126.3	128.0	130.7
65°	103.3	103.3	104.2	105.1	106.8	107.7	108.6	110.4	113.0	114.8	117.4
67.5°	90.9	90.9	91.8	92.7	94.5	95.4	95.4	98.0	99.8	101.5	103.3
70°	79.5	79.5	80.4	80.4	81.2	82.1	83.0	84.8	85.7	88.3	89.2
72.5°	67.1	67.1	67.1	67.1	68.9	68.9	69.8	71.5	72.4	74.2	75.9
75°	53.9	53.9	54.7	54.7	55.6	56.5	57.4	58.3	60.0	60.9	61.8
77.5°	42.4	41.5	42.4	43.3	44.2	44.2	45.0	45.9	46.8	48.6	49.4
80°	30.0	30.0	30.0	30.9	31.8	31.8	32.7	33.6	34.4	36.2	37.1
82.5°	19.4	19.4	20.3	20.3	21.2	22.1	22.1	23.0	23.8	25.6	26.5
85°	10.6	10.6	10.6	11.5	12.4	12.4	13.2	14.1	15.9	16.8	18.5
87.5°	3.5	3.5	4.4	5.3	6.2	6.2	7.1	7.9	8.8	10.6	11.5
90°	0.9	0.9	0.9	1.8	1.8	2.6	2.6	3.5	4.4	5.3	6.2
92.5°	3.5	6.2	9.7	14.1	13.2	14.1	9.7	6.2	6.2	6.2	7.1
95°	10.6	15.9	25.6	40.6	53.0	60.0	66.2	72.4	84.8	85.7	82.1
97.5°	21.2	29.1	46.8	66.2	88.3	99.8	108.6	127.2	146.6	158.9	174.0
100°	35.3	46.8	69.8	96.2	121.9	136.9	151.0	177.5	201.3	222.5	245.5
102.5°	52.1	65.3	93.6	126.3	158.1	174.8	189.8	220.8	253.4	281.7	306.4
105°	69.8	84.8	118.3	155.4	191.6	211.0	229.6	263.1	297.6	328.5	357.6
107.5°	89.2	105.1	141.3	182.8	223.4	245.5	265.8	302.0	338.2	371.7	402.6
110°	107.7	125.4	163.4	208.4	254.3	276.4	296.7	336.4	374.4	409.7	442.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	127.2	145.7	183.7	233.1	279.9	302.9	324.1	366.4	406.2	442.4	475.1
115°	145.7	163.4	203.1	254.3	302.0	325.8	348.8	392.1	433.6	469.8	503.3
117.5°	163.4	180.1	220.8	272.0	321.4	345.3	368.2	413.2	454.7	492.7	525.4
120°	181.0	196.0	240.2	287.0	337.3	361.1	385.0	430.0	472.4	510.4	543.9
122.5°	196.9	211.0	254.3	300.2	349.7	374.4	397.4	443.3	486.5	524.5	557.2
125°	211.0	224.3	267.5	310.8	360.3	384.1	407.9	453.0	496.2	533.3	566.9
127.5°	225.2	238.4	277.3	321.4	367.3	392.1	415.0	460.0	502.4	540.4	573.1
130°	240.2	249.9	287.0	331.1	374.4	397.4	421.2	464.5	506.0	543.0	575.7
132.5°	252.5	261.4	296.7	339.1	379.7	401.8	423.0	466.2	507.7	543.0	574.8
135°	264.0	271.1	303.8	346.1	384.1	404.4	424.7	465.3	506.0	541.3	572.2
137.5°	274.6	281.7	309.9	351.4	387.6	405.3	424.7	462.7	501.5	536.9	566.0
140°	284.3	289.6	315.2	354.1	389.4	406.2	423.0	458.3	494.5	528.9	558.1
142.5°	294.0	298.5	319.6	355.8	390.3	406.2	422.1	453.0	486.5	520.1	549.2
145°	301.1	305.5	323.2	356.7	389.4	404.4	418.5	447.7	477.7	508.6	536.9
147.5°	309.0	312.6	326.7	355.0	386.8	400.9	414.1	440.6	468.0	496.2	522.7
150°	314.3	317.9	328.5	353.2	382.3	395.6	408.8	433.6	458.3	483.0	506.0
152.5°	319.6	322.3	331.1	350.6	377.0	389.4	401.8	425.6	448.6	470.6	490.9
155°	324.1	326.7	332.9	348.8	370.9	382.3	393.8	416.8	438.0	457.4	475.9
157.5°	328.5	330.2	334.7	346.1	363.8	374.4	385.0	405.3	424.7	444.1	459.2
160°	332.0	332.9	336.4	345.3	357.6	365.6	375.3	393.8	411.5	428.3	442.4
162.5°	335.5	335.5	338.2	343.5	352.3	357.6	364.7	380.6	396.5	411.5	424.7
165°	337.3	337.3	339.1	342.6	347.9	351.4	355.8	366.4	378.8	392.1	404.4
167.5°	339.1	339.1	340.0	341.7	345.3	347.0	348.8	355.8	363.8	373.5	383.2
170°	340.8	340.0	340.0	341.7	342.6	343.5	344.4	347.9	351.4	357.6	362.9
172.5°	340.8	340.0	340.0	340.8	340.8	340.8	340.8	341.7	342.6	346.1	347.9
175°	340.8	340.0	340.0	340.0	340.0	339.1	339.1	339.1	339.1	339.1	340.0
177.5°	340.8	340.0	339.1	339.1	338.2	338.2	337.3	337.3	336.4	336.4	336.4
180°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0	249.0
2.5°	249.9	249.9	249.0	249.0	248.1	248.1	247.2	246.4	245.5	245.5
5°	250.8	249.9	249.0	249.0	249.0	248.1	248.1	248.1	247.2	247.2
7.5°	250.8	250.8	250.8	249.9	249.9	249.9	249.9	249.9	249.0	249.0
10°	251.7	251.7	251.7	251.7	251.7	251.7	251.7	250.8	250.8	250.8
12.5°	251.7	251.7	251.7	252.5	252.5	252.5	252.5	252.5	252.5	252.5
15°	252.5	252.5	253.4	253.4	254.3	254.3	255.2	255.2	255.2	254.3
17.5°	251.7	252.5	253.4	254.3	255.2	255.2	256.1	256.1	256.1	256.1
20°	251.7	253.4	254.3	255.2	256.1	256.1	257.0	257.8	257.8	257.0
22.5°	250.8	252.5	253.4	255.2	256.1	256.1	257.8	257.8	257.8	257.8
25°	249.9	251.7	253.4	255.2	256.1	256.1	257.8	257.8	258.7	258.7
27.5°	248.1	249.9	252.5	254.3	255.2	256.1	257.0	257.8	257.8	257.8
30°	245.5	248.1	250.8	252.5	253.4	254.3	255.2	256.1	257.0	257.0
32.5°	241.9	244.6	247.2	249.9	250.8	251.7	253.4	254.3	254.3	254.3
35°	238.4	241.1	243.7	246.4	247.2	248.1	249.9	250.8	251.7	251.7
37.5°	233.1	235.8	238.4	241.1	241.9	243.7	245.5	246.4	246.4	246.4
40°	225.2	229.6	233.1	235.8	236.6	238.4	239.3	241.1	241.1	241.1
42.5°	218.1	221.6	224.3	227.8	228.7	231.3	233.1	234.0	234.9	234.9
45°	210.2	213.7	216.3	219.0	219.9	221.6	223.4	224.3	225.2	226.0
47.5°	202.2	204.9	207.5	210.2	211.0	212.8	214.6	215.5	216.3	216.3
50°	192.5	195.1	197.8	200.4	201.3	203.1	204.0	204.9	205.7	205.7
52.5°	181.9	184.5	187.2	189.8	190.7	191.6	193.4	194.3	195.1	195.1
55°	171.3	174.0	175.7	178.4	179.2	180.1	181.0	182.8	183.7	182.8
57.5°	158.9	161.6	163.4	166.0	166.9	167.8	168.7	169.5	170.4	170.4
60°	145.7	148.3	151.0	152.8	153.6	154.5	155.4	156.3	157.2	157.2
62.5°	132.4	135.1	136.9	139.5	140.4	140.4	141.3	142.2	143.0	143.0
65°	119.2	121.9	122.7	125.4	125.4	126.3	127.2	128.0	128.0	128.0
67.5°	105.1	107.7	108.6	110.4	110.4	111.3	112.1	113.0	113.0	113.0
70°	91.8	92.7	94.5	95.4	96.2	96.2	97.1	98.0	98.9	98.0
72.5°	77.7	78.6	80.4	81.2	81.2	82.1	82.1	83.0	83.9	83.9
75°	63.6	65.3	66.2	67.1	68.0	68.0	68.9	69.8	69.8	69.8
77.5°	50.3	52.1	53.0	53.9	54.7	54.7	55.6	55.6	56.5	55.6
80°	38.9	39.7	40.6	41.5	42.4	42.4	43.3	44.2	44.2	44.2
82.5°	28.3	29.1	30.9	31.8	31.8	31.8	33.6	33.6	34.4	33.6
85°	19.4	20.3	22.1	23.0	23.8	23.8	23.8	24.7	25.6	24.7
87.5°	12.4	14.1	15.0	15.9	15.9	15.9	16.8	17.7	17.7	17.7
90°	7.1	7.1	7.9	8.8	8.8	9.7	9.7	10.6	10.6	10.6
92.5°	7.1	7.9	7.9	7.9	8.8	8.8	8.8	9.7	9.7	9.7
95°	60.0	43.3	24.7	19.4	16.8	16.8	15.9	16.8	15.9	15.9
97.5°	181.9	196.9	204.0	213.7	219.0	218.1	214.6	218.1	215.5	218.1
100°	258.7	272.8	283.4	286.1	291.4	294.0	303.8	310.8	314.3	318.8
102.5°	321.4	338.2	350.6	357.6	362.9	366.4	377.9	388.5	393.8	397.4
105°	378.8	396.5	411.5	418.5	424.7	428.3	440.6	453.0	460.9	465.3
107.5°	424.7	445.0	460.9	471.5	477.7	483.9	498.9	511.3	521.0	525.4
110°	466.2	486.5	503.3	515.7	522.7	528.9	545.7	559.8	570.4	575.7



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CATALOG NUMBER: I3-CL-40L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	500.7	522.7	539.5	552.8	559.8	568.7	584.5	600.4	611.0	617.2
115°	528.9	551.9	569.5	583.7	591.6	599.6	618.1	634.0	644.6	649.0
117.5°	552.8	575.7	594.3	608.4	617.2	626.0	644.6	658.7	670.2	673.7
120°	572.2	595.1	613.7	629.6	638.4	646.4	664.0	679.0	689.6	692.3
122.5°	585.4	609.3	628.7	646.4	654.3	662.2	679.0	694.0	703.8	706.4
125°	595.1	619.9	639.3	657.8	665.8	673.7	689.6	704.6	712.6	716.1
127.5°	601.3	626.0	647.2	664.9	673.7	680.8	696.7	709.9	717.9	720.5
130°	603.1	628.7	649.9	668.4	676.4	683.4	698.5	711.7	718.8	720.5
132.5°	603.1	627.8	649.9	667.5	675.5	682.6	696.7	709.0	716.1	717.9
135°	599.6	623.4	645.5	663.1	671.1	678.1	692.3	702.9	709.9	710.8
137.5°	593.4	616.3	637.5	655.2	663.1	670.2	682.6	694.0	700.2	702.0
140°	585.4	606.6	627.8	644.6	652.5	658.7	671.1	680.8	687.0	688.7
142.5°	574.8	596.0	615.5	632.2	638.4	645.5	656.1	665.8	671.1	672.8
145°	563.4	583.7	601.3	616.3	623.4	629.6	639.3	648.1	653.4	655.2
147.5°	548.3	568.7	585.4	599.6	605.7	611.9	620.7	628.7	634.0	635.8
150°	529.8	548.3	566.0	579.2	585.4	591.6	600.4	607.5	612.8	613.7
152.5°	511.3	528.9	543.9	557.2	563.4	569.5	577.5	584.5	590.7	590.7
155°	493.6	508.6	522.7	534.2	539.5	544.8	552.8	558.9	564.2	564.2
157.5°	475.1	489.2	500.7	511.3	515.7	520.1	527.2	532.4	536.9	536.0
160°	457.4	468.0	478.6	487.4	491.8	495.4	500.7	505.1	509.5	508.6
162.5°	438.0	447.7	456.5	462.7	466.2	468.9	474.2	478.6	481.2	481.2
165°	415.9	424.7	432.7	438.9	442.4	444.1	448.6	451.2	453.9	453.9
167.5°	392.9	400.0	407.1	412.4	415.9	417.7	422.1	423.8	427.4	426.5
170°	370.0	375.3	380.6	385.0	386.8	388.5	392.1	393.8	395.6	395.6
172.5°	351.4	353.2	355.8	359.4	359.4	360.3	362.0	362.9	363.8	363.8
175°	340.8	341.7	341.7	341.7	341.7	341.7	342.6	341.7	342.6	341.7
177.5°	336.4	336.4	335.5	335.5	334.7	335.5	334.7	333.8	333.8	332.9
180°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7

(END OF REPORT)