

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P208814

Luminaire Tested: **LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29054)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 15° SPOT, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 846.8 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 0.62 / 1.12  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

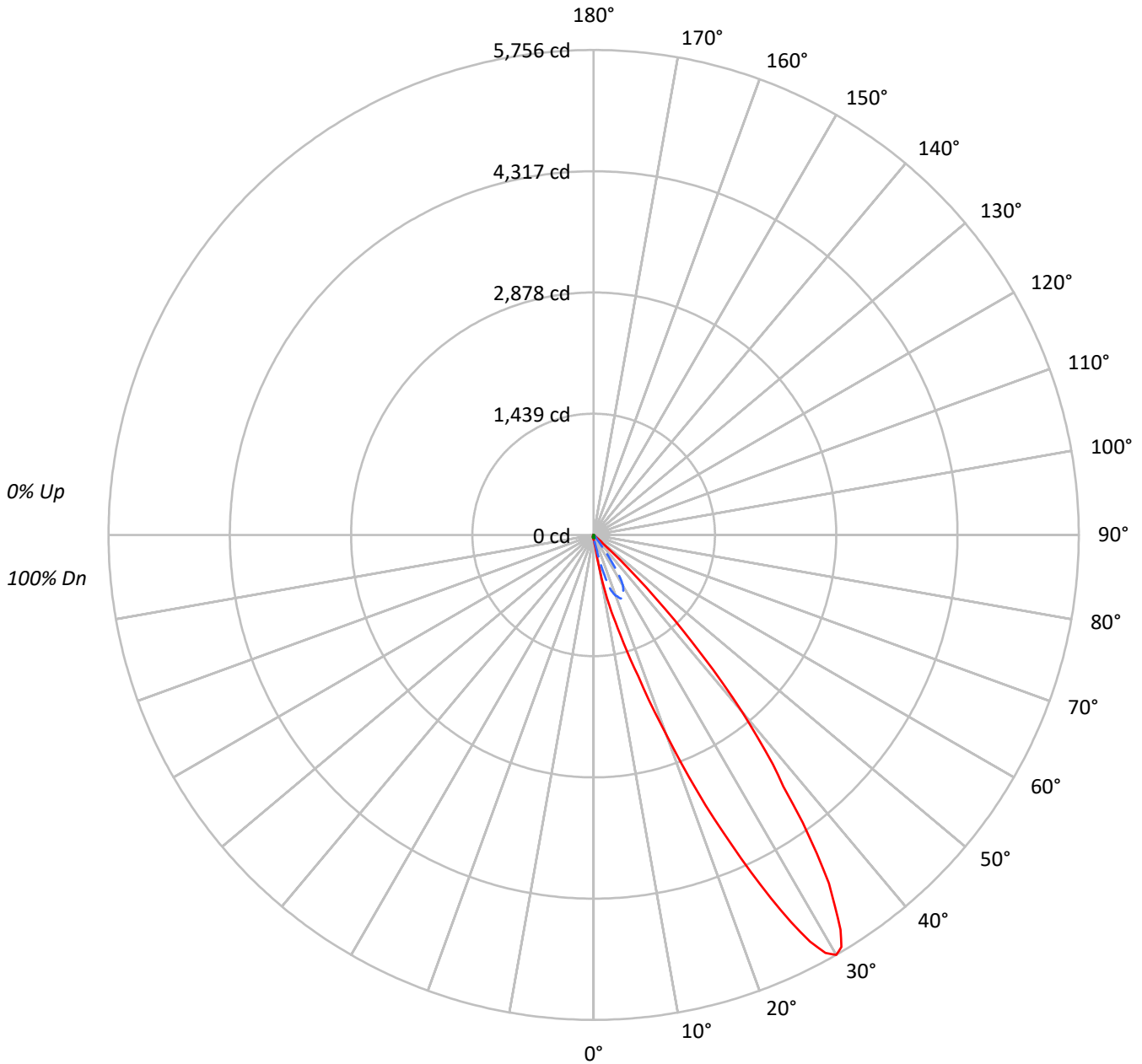
Input Watts (W): 13.73  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P208814

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### Luminous Intensity Polar Plot



0% Up  
100% Dn



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75																			
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67																			
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61																			
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55																			
7	75	64	57	52	74	64	57	52	62	56	51	61	55	51	60	55	51	49																			
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44																			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	2390	2390	2390
5°	3687	2260	1815
10°	19766	2011	1508
15°	54497	1627	1288
20°	115725	1219	1127
25°	209476	884	979
30°	286153	651	865
35°	242560	457	794
40°	153974	315	759
45°	53364	244	700
50°	3269	188	610
55°	563	150	473
60°	138	138	310
65°	82	163	245
70°	101	201	252
75°	0	266	266
80°	0	397	198
85°	0	790	198



TEST NUMBER: P208814

CATALOG NUMBER: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.9	0.8
10°-20°	87.1	10.3
20°-30°	302.6	35.7
30°-40°	331.7	39.2
40°-50°	109.4	12.9
50°-60°	4.6	0.5
60°-70°	2.0	0.2
70°-80°	1.5	0.2
80°-90°	1.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	396.6	46.8
0°-40°	728.3	86.0
0°-60°	842.3	99.5
0°-90°	846.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	85	69	52	45	42	18
15°	1223	498	36	29	29	406
25°	4409	817	19	18	21	2064
35°	4615	272	9	12	15	2774
45°	876	14	4	8	12	772
55°	8	2	2	5	6	11
65°	1	1	2	3	2	1
75°	0	1	2	2	2	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P208814

CATALOG NUMBER: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	65.8	65.4	65.4	65.4	65.0	64.2	64.2	64.6	64.6	64.2	64.6
5°	85.3	84.5	84.1	83.7	82.1	81.7	80.1	81.3	80.1	78.9	78.9
7.5°	156.2	155.8	149.1	144.7	137.2	128.5	126.1	126.5	121.0	115.8	112.6
10°	452.1	452.9	433.0	441.0	412.4	400.9	379.1	371.2	351.4	334.7	314.5
11°	604.8	604.0	579.0	586.5	557.6	541.3	516.7	504.0	479.0	462.4	437.0
12°	769.7	745.5	737.2	744.4	714.6	693.2	663.5	647.2	616.3	599.2	568.7
13°	933.1	926.0	898.2	905.0	874.4	827.6	815.3	795.9	759.8	739.6	705.5
14°	1074.7	1048.5	1039.8	1044.2	1014.0	969.6	957.3	951.4	895.8	874.0	836.0
15°	1222.6	1190.9	1178.6	1162.3	1144.5	1091.7	1073.9	1062.4	1004.9	968.4	943.8
17.5°	1760.3	1715.5	1685.4	1648.5	1609.3	1511.7	1471.3	1432.8	1332.1	1283.7	1210.7
20°	2525.7	2457.1	2379.8	2299.7	2222.7	2050.6	1950.7	1843.6	1706.0	1591.0	1503.8
21°	2896.1	2814.0	2720.8	2660.5	2515.8	2305.6	2170.8	2018.1	1841.2	1698.9	1589.0
22°	3284.3	3190.8	3113.0	3024.2	2823.5	2572.9	2403.6	2207.7	1978.9	1803.2	1664.4
23°	3661.5	3555.6	3462.4	3354.1	3122.1	2831.9	2630.8	2397.2	2121.6	1903.1	1731.4
24°	4021.6	3911.7	3804.6	3662.3	3396.6	3075.7	2839.4	2573.3	2257.6	1999.1	1794.5
25°	4409.4	4280.9	4142.5	3926.0	3655.9	3293.1	3021.0	2726.4	2378.6	2087.5	1847.6
26°	4795.6	4645.7	4438.3	4217.9	3895.1	3489.0	3178.9	2850.5	2481.7	2158.5	1886.9
27°	5158.1	4997.5	4754.0	4452.2	4109.6	3656.7	3308.9	2948.8	2553.5	2204.5	1905.1
28°	5468.2	5291.4	5020.1	4676.3	4269.4	3780.0	3395.0	3006.7	2588.0	2221.9	1907.5
29°	5672.5	5496.0	5203.7	4821.8	4359.8	3841.1	3429.1	3019.4	2586.0	2211.6	1891.2
30°	5755.7	5577.7	5279.1	4869.4	4376.9	3842.3	3415.2	2992.9	2551.5	2179.1	1859.1
31°	5707.0	5536.0	5233.1	4820.6	4316.6	3786.8	3356.9	2925.8	2482.9	2121.6	1811.1
32°	5526.9	5370.3	5079.2	4686.6	4192.5	3675.4	3256.6	2826.7	2386.1	2046.7	1751.2
33°	5252.5	5122.0	4824.6	4462.5	4026.7	3538.5	3134.4	2726.0	2269.5	1955.1	1687.4
34°	4989.6	4796.8	4533.1	4211.5	3814.2	3360.9	2983.0	2567.4	2145.8	1854.3	1614.4
35°	4614.8	4442.3	4198.8	3923.6	3566.7	3144.0	2766.0	2412.7	2007.4	1757.2	1537.9
36°	4219.4	4067.6	3890.7	3644.0	3302.6	2917.5	2571.7	2222.7	1865.0	1648.9	1457.0
37°	3736.4	3702.3	3537.7	3331.9	3027.0	2671.3	2346.1	2044.3	1731.8	1549.0	1368.1
38°	3451.3	3339.5	3188.8	3007.5	2708.5	2423.8	2128.4	1865.0	1610.8	1455.4	1267.0
39°	3088.4	2994.1	2855.3	2692.3	2434.9	2166.0	1925.7	1715.5	1510.9	1361.0	1158.0
40°	2739.5	2660.9	2533.6	2393.7	2160.1	1938.8	1750.8	1583.9	1411.8	1260.3	1050.1
42.5°	1727.4	1688.6	1636.2	1617.2	1533.5	1476.0	1407.4	1311.0	1159.6	989.0	842.3
45°	876.4	851.4	850.6	889.5	916.1	918.8	912.5	887.9	789.6	740.8	610.3
47.5°	147.5	140.4	144.7	170.9	207.8	252.6	302.6	364.0	429.9	416.0	320.4
50°	48.8	47.2	46.0	47.2	45.6	46.8	46.0	44.8	40.4	42.4	43.6
51°	30.1	32.1	30.9	31.7	31.3	32.5	32.5	32.1	29.3	27.4	25.0
52°	20.6	21.0	21.4	21.8	21.4	21.8	22.2	22.2	21.4	20.6	18.6
53°	14.7	14.7	15.1	15.1	15.1	15.5	15.5	15.5	15.1	15.1	14.7
54°	10.3	10.7	10.7	10.7	10.7	11.1	11.1	11.1	11.5	11.1	11.1
55°	7.5	7.5	7.5	7.5	7.5	7.5	7.9	7.9	8.3	8.3	7.9
57.5°	3.2	3.2	2.8	3.2	3.2	3.2	3.2	3.6	3.6	4.0	4.0
60°	1.6	1.6	1.6	1.6	1.2	1.6	1.6	1.6	1.6	2.0	2.0



TEST NUMBER: P208814

CATALOG NUMBER: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	63.5	64.2	63.1	63.8	62.3	62.3	61.1	61.5	61.1	60.3	60.3
5°	76.9	76.9	75.0	75.0	72.6	71.4	69.4	69.4	68.2	66.2	65.8
7.5°	105.5	101.5	97.2	95.6	90.8	87.6	84.1	82.5	78.9	75.7	73.4
10°	282.4	256.2	230.4	214.5	175.7	147.5	126.5	112.2	101.9	89.6	84.9
11°	398.2	364.8	331.1	298.2	260.1	221.7	197.5	159.4	135.2	107.9	94.8
12°	523.5	484.2	443.4	406.1	360.5	312.1	278.8	230.4	196.3	150.7	119.0
13°	652.0	607.5	558.8	519.9	468.3	412.8	360.5	315.7	273.2	213.7	167.3
14°	775.7	728.5	675.0	634.1	576.2	515.9	456.8	407.3	355.7	284.7	227.6
15°	885.9	852.2	784.4	744.0	681.7	617.5	551.6	498.5	437.4	358.5	292.7
17.5°	1116.7	1054.5	971.6	931.5	869.7	814.1	742.8	694.8	619.4	536.2	463.6
20°	1388.8	1297.2	1184.9	1100.5	993.4	895.8	805.8	768.1	721.3	664.6	596.8
21°	1463.3	1364.6	1242.0	1156.0	1046.1	945.8	839.9	780.0	728.9	679.7	623.0
22°	1517.7	1413.4	1284.5	1194.8	1081.8	982.3	874.0	802.2	734.0	678.5	627.4
23°	1563.7	1452.6	1318.6	1221.0	1102.8	1000.1	891.5	820.1	744.7	675.7	620.2
24°	1605.3	1483.5	1342.8	1238.1	1113.6	1006.5	893.9	823.3	749.9	677.3	610.7
25°	1636.6	1503.0	1356.6	1246.8	1115.9	1004.5	888.3	817.3	744.0	672.2	600.0
26°	1658.0	1512.1	1360.6	1246.4	1111.2	996.6	876.8	805.0	729.7	653.5	582.6
27°	1664.8	1509.7	1355.1	1237.3	1099.3	981.1	857.4	781.6	707.5	631.3	559.2
28°	1658.0	1500.2	1342.4	1219.4	1079.4	955.7	826.0	750.7	683.7	606.7	530.6
29°	1639.4	1483.1	1319.0	1192.9	1048.1	914.5	786.0	721.0	656.3	569.5	482.6
30°	1610.4	1452.2	1285.3	1154.0	1001.7	862.5	749.9	693.6	611.1	509.2	415.6
31°	1570.0	1412.2	1241.6	1102.4	939.9	811.8	718.6	642.4	540.5	429.5	333.9
32°	1520.8	1364.6	1178.2	1033.8	878.8	771.7	663.1	564.3	451.3	335.1	243.5
33°	1468.1	1303.5	1105.6	961.7	826.4	718.2	582.9	467.9	351.4	235.6	153.5
34°	1407.0	1228.6	1024.3	889.1	767.7	637.7	487.8	363.6	250.6	143.2	78.9
35°	1333.2	1136.2	943.4	826.4	683.7	531.0	383.5	272.4	157.0	72.2	42.8
36°	1244.0	1041.0	873.2	745.9	585.3	426.3	276.8	173.7	84.5	42.4	33.7
37°	1130.6	962.9	799.5	650.0	479.0	320.0	178.5	94.4	48.4	34.5	28.6
38°	1032.7	890.7	720.6	545.3	369.2	219.3	108.3	53.1	38.1	28.9	23.8
39°	948.2	813.4	617.1	435.0	263.3	132.8	59.5	40.4	31.7	23.8	20.2
40°	874.4	703.1	507.6	326.4	169.3	73.8	42.8	33.7	25.8	19.8	16.3
42.5°	641.6	446.1	235.2	105.5	49.6	36.9	27.0	21.4	16.7	12.3	10.3
45°	381.1	200.7	71.0	43.2	31.3	23.4	17.1	13.5	10.3	7.5	6.3
47.5°	139.2	50.8	34.9	26.2	19.8	14.7	10.7	8.3	6.3	4.4	3.6
50°	28.6	24.6	19.0	15.5	11.5	8.7	6.3	4.8	3.6	2.8	2.4
51°	21.8	19.0	15.5	12.3	9.1	7.1	5.2	4.0	3.2	2.4	2.0
52°	16.7	14.7	11.9	9.9	7.5	5.6	4.0	3.2	2.4	1.6	1.6
53°	13.1	11.5	9.1	7.5	5.9	4.4	3.2	2.4	2.0	1.6	1.6
54°	9.9	8.7	7.1	5.9	4.8	3.6	2.4	2.0	1.6	1.6	1.2
55°	7.1	6.7	5.6	4.4	3.6	2.8	2.0	1.6	1.6	1.2	1.2
57.5°	3.6	3.2	2.8	2.4	2.0	1.6	1.2	1.2	1.2	1.2	0.8
60°	2.0	1.6	1.6	1.6	1.2	1.2	1.2	0.8	0.8	1.2	1.2





TEST NUMBER: P208814

CATALOG NUMBER: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	0.8	0.8	0.8	0.8	1.2	0.8	0.8	0.8	1.2	1.2	1.2
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
65°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
75°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
77.5°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
80°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
82.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
85°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
87.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P208814

CATALOG NUMBER: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	59.1	59.9	59.1	58.3	57.9	57.9	57.5	56.3	56.7	56.3	56.3
5°	63.8	64.2	62.7	61.5	60.7	59.9	59.1	57.5	57.1	56.7	56.3
7.5°	70.2	69.8	66.6	64.6	62.7	61.1	59.5	57.5	56.7	55.5	54.7
10°	79.3	76.5	71.4	67.8	65.0	61.9	59.5	56.3	54.7	53.1	51.9
11°	83.3	79.3	74.2	69.4	65.8	62.3	59.5	55.5	53.5	51.9	50.4
12°	95.6	84.9	76.5	71.4	66.6	62.7	59.1	55.1	52.7	50.4	48.8
13°	123.7	98.7	81.7	72.6	67.8	63.1	58.7	54.3	51.6	48.8	47.2
14°	169.7	126.9	94.4	76.9	68.2	63.1	58.3	53.5	50.4	47.6	45.6
15°	224.9	170.5	120.2	87.6	69.8	62.7	57.5	52.3	48.8	45.6	43.6
17.5°	378.7	307.7	230.8	164.2	101.5	68.6	54.3	48.4	44.0	40.4	38.1
20°	507.6	425.9	339.1	256.2	175.7	109.5	62.7	44.0	38.9	34.9	32.5
21°	535.8	459.2	367.2	280.4	197.1	126.9	71.0	44.0	36.9	32.9	30.5
22°	550.4	476.7	384.7	296.2	211.8	139.2	79.7	44.4	34.9	30.9	28.2
23°	548.1	480.6	391.4	301.0	218.5	145.1	83.3	44.8	32.9	28.9	26.2
24°	533.8	469.9	384.7	295.4	216.5	143.6	82.1	44.0	30.9	27.0	24.6
25°	515.9	448.9	366.4	280.4	203.8	133.6	76.1	41.2	29.3	25.4	23.0
26°	495.7	427.9	341.0	253.8	183.2	117.0	64.2	36.5	27.0	23.4	21.4
27°	471.5	400.5	309.7	225.6	154.7	94.4	51.6	30.9	25.0	21.4	19.8
28°	435.4	361.7	269.7	188.4	123.7	71.4	38.9	26.6	23.0	19.8	18.2
29°	381.5	306.9	219.7	147.1	90.8	49.2	29.7	23.8	20.6	17.8	16.7
30°	314.1	242.7	163.0	101.1	58.3	33.3	24.2	21.0	18.2	16.3	15.5
31°	237.9	172.5	105.5	58.3	34.9	24.6	21.4	18.2	16.3	14.7	14.3
32°	157.0	104.3	55.9	33.7	25.4	21.4	18.6	16.3	14.7	13.5	13.1
33°	84.1	48.0	32.1	25.4	21.4	18.6	16.3	14.3	13.1	12.3	11.9
34°	42.8	31.3	26.2	21.8	18.2	16.3	14.3	12.7	11.9	11.1	10.7
35°	31.7	27.0	22.6	18.6	15.9	14.3	12.7	11.5	10.7	9.9	9.9
36°	27.0	22.6	18.6	16.3	14.3	12.7	11.5	9.9	9.5	9.1	8.7
37°	22.6	19.4	16.3	13.9	12.3	11.1	9.9	9.1	8.3	7.9	7.9
38°	19.0	16.7	13.9	11.9	10.7	9.9	8.7	7.9	7.5	7.1	7.1
39°	15.9	13.9	11.9	10.3	9.1	8.3	7.5	7.1	6.7	6.3	6.3
40°	13.1	11.9	9.9	8.7	7.9	7.1	6.7	6.3	5.9	5.6	5.9
42.5°	8.3	7.1	6.3	5.9	5.2	5.2	4.8	4.4	4.4	4.4	4.4
45°	4.8	4.4	4.0	4.0	3.6	3.6	3.6	3.2	3.6	3.6	3.6
47.5°	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.8	2.8
50°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.0
51°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
52°	1.6	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6
53°	1.2	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6
54°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6
57.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6



TEST NUMBER: P208814

CATALOG NUMBER: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.2	1.2	1.2	1.2	1.2	1.6	1.2	1.2	1.2	1.6	1.6
64°	1.2	1.2	1.2	1.2	1.2	1.6	1.2	1.2	1.2	1.2	1.6
65°	1.2	1.2	1.6	1.6	1.6	1.6	1.2	1.2	1.2	1.2	1.6
66°	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.2	1.2	1.6	1.6
67.5°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.2	1.6	1.6	1.6
70°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P208814

CATALOG NUMBER: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	55.1	54.7	54.3	54.3	51.2	49.6	47.6	47.6
5°	54.3	53.9	53.1	52.3	47.2	44.8	42.4	42.0
7.5°	52.7	51.6	50.4	49.6	43.2	40.4	38.1	37.7
10°	49.6	48.0	46.8	46.0	39.3	36.5	34.5	34.5
11°	48.0	46.4	45.2	44.0	37.3	34.9	33.3	33.3
12°	46.4	44.8	43.2	42.4	35.7	33.7	32.1	31.7
13°	44.8	42.8	41.6	40.4	34.1	32.1	30.9	30.9
14°	43.2	41.2	39.7	38.5	32.5	30.5	29.7	29.7
15°	40.8	38.9	37.7	36.5	30.5	29.3	28.6	28.9
17.5°	35.3	33.7	32.5	31.3	26.6	26.2	26.2	26.6
20°	30.1	28.6	27.4	26.6	23.0	23.4	23.8	24.6
21°	28.2	26.6	25.4	24.6	21.8	22.2	23.0	23.8
22°	26.2	25.0	23.8	23.0	20.6	21.0	22.2	23.0
23°	24.2	23.0	22.2	21.4	19.4	20.2	21.4	22.2
24°	22.6	21.4	20.6	19.8	18.2	19.0	20.6	21.4
25°	21.0	19.8	19.0	18.6	17.1	18.2	19.8	20.6
26°	19.4	18.6	17.8	17.4	16.3	17.4	19.0	20.2
27°	17.8	17.1	16.7	16.3	15.1	16.7	18.2	19.4
28°	16.7	15.9	15.5	15.1	14.3	15.9	17.8	18.6
29°	15.5	14.7	14.3	13.9	13.5	15.1	17.1	18.2
30°	14.3	13.9	13.1	13.1	12.7	14.7	16.3	17.4
31°	13.1	12.7	12.3	11.9	11.9	13.9	15.9	17.1
32°	12.3	11.9	11.5	11.1	11.5	13.1	15.1	16.7
33°	11.1	10.7	10.7	10.3	10.7	12.7	14.7	16.3
34°	9.9	9.9	9.5	9.5	10.3	12.3	14.3	15.5
35°	9.1	8.7	8.7	8.7	9.9	11.5	13.9	15.1
36°	8.3	8.3	7.9	7.9	9.5	11.1	13.5	14.7
37°	7.5	7.5	7.5	7.1	8.7	10.7	12.7	14.3
38°	6.7	6.7	6.7	6.7	8.3	10.3	12.7	14.3
39°	5.9	5.9	6.3	6.3	7.9	9.9	11.9	13.9
40°	5.6	5.6	5.6	5.6	7.5	9.5	11.5	13.5
42.5°	4.4	4.4	4.8	4.8	6.7	8.7	10.7	12.3
45°	3.6	3.6	4.0	4.0	5.9	7.9	9.5	11.5
47.5°	2.8	2.8	3.2	3.2	5.2	7.1	8.7	10.3
50°	2.0	2.4	2.4	2.8	4.8	6.3	7.5	9.1
51°	2.0	2.0	2.4	2.4	4.4	5.9	7.1	8.7
52°	2.0	2.0	2.4	2.4	4.0	5.6	6.7	7.9
53°	1.6	2.0	2.0	2.4	4.0	5.6	6.3	7.5
54°	1.6	1.6	2.0	2.0	4.0	5.2	6.3	6.7
55°	1.6	1.6	2.0	2.0	3.6	5.2	5.9	6.3
57.5°	1.6	1.6	1.6	1.6	3.2	4.4	5.2	5.2
60°	1.6	1.6	1.6	1.6	3.2	4.0	4.8	3.6



TEST NUMBER: P208814

CATALOG NUMBER: LDSQA6A10835D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.6	1.6	1.6	1.6	2.8	3.6	3.6	2.8
64°	1.6	1.6	1.6	1.6	2.8	3.6	3.6	2.8
65°	1.6	1.6	1.6	1.6	2.8	3.2	3.2	2.4
66°	1.6	1.6	1.6	1.6	2.8	3.2	3.2	2.4
67.5°	1.6	1.6	1.6	1.6	2.4	2.8	2.8	2.4
70°	1.6	1.6	1.6	1.6	2.4	2.8	2.4	2.0
72.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.0	1.6
75°	1.6	1.6	1.6	1.6	2.0	2.0	1.6	1.6
77.5°	1.6	1.6	1.6	1.6	2.0	2.0	1.6	1.2
80°	1.6	1.6	1.6	1.6	2.0	1.6	1.2	0.8
82.5°	1.6	1.6	1.6	1.6	1.6	1.2	0.8	0.8
85°	1.6	1.6	1.6	1.6	1.6	1.2	0.8	0.4
87.5°	1.6	1.6	1.6	1.6	1.6	1.2	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°









61°	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6
62°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8





61°	1.6	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	1.2	1.2
62°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	1.2	1.2





61°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
62°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2







61°	1.6	1.6	1.6	1.6	2.8	4.0	4.4	3.2
62°	1.6	1.6	1.6	1.6	2.8	3.6	4.0	2.8



(END OF REPORT)