

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: P208819

Luminaire Tested: **LDSQA6A10940D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208819  
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: LDSQA6A10940D010TE LARL15SP 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 15° SPOT, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 746.0 lumens  
Efficiency: N/A  
Efficacy: 54.3 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

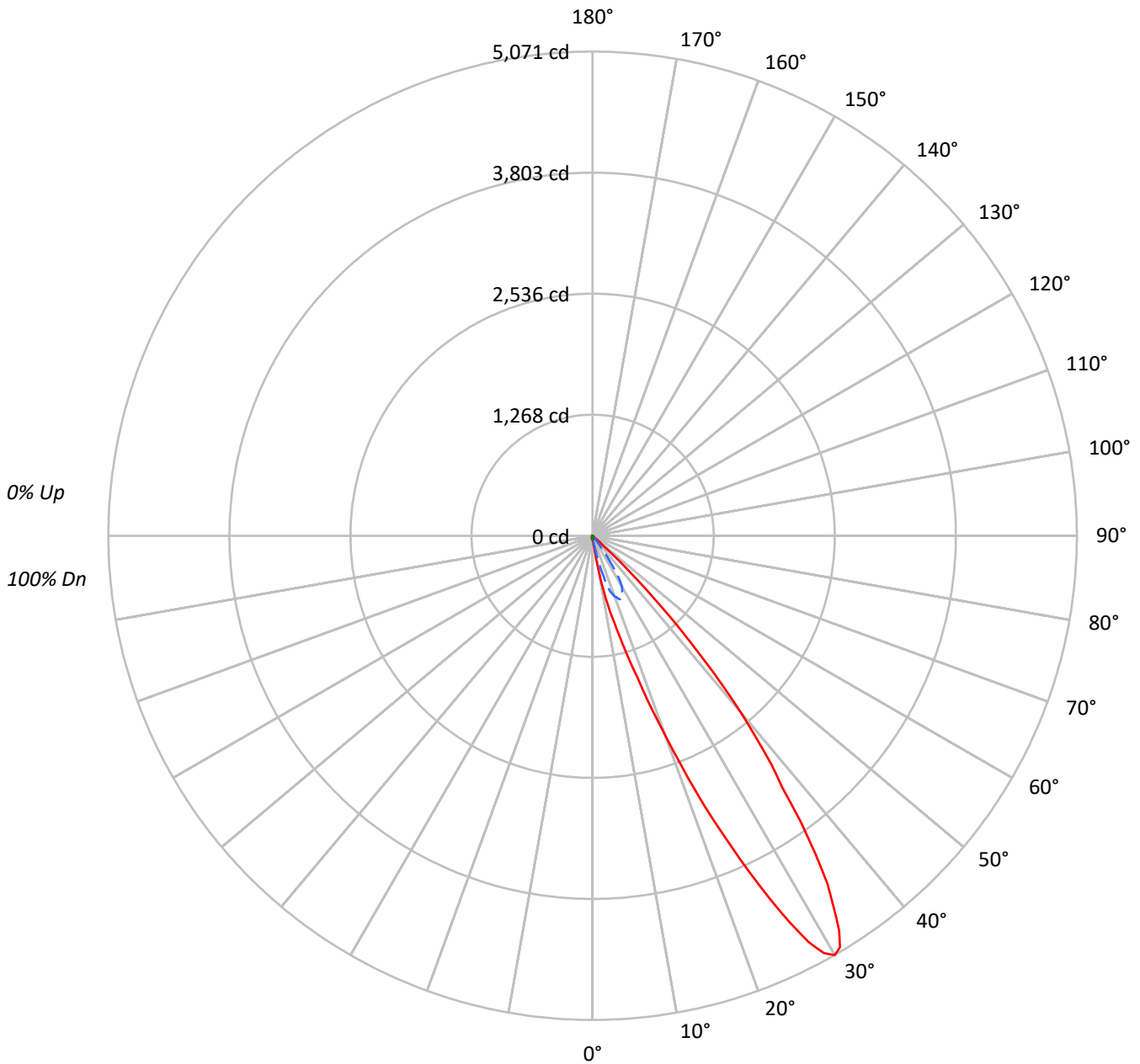
Input Watts (W): 13.73  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	74	70	76	72	69	67			
5	86	77	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°	2105	2105	2105
5°	3246	1992	1599
10°	17414	1771	1329
15°	48016	1431	1137
20°	101965	1072	994
25°	184568	779	865
30°	252127	572	766
35°	213719	405	699
40°	135662	275	669
45°	47019	213	615
50°	2880	161	536
55°	495	128	420
60°	121	121	267
65°	71	143	214
70°	88	176	214
75°	0	233	233
80°	0	347	174
85°	0	692	148



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.1	0.8
10°-20°	76.7	10.3
20°-30°	266.6	35.7
30°-40°	292.3	39.2
40°-50°	96.4	12.9
50°-60°	4.0	0.5
60°-70°	1.7	0.2
70°-80°	1.3	0.2
80°-90°	0.9	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°	349.4	46.8
0°-40°	641.7	86.0
0°-60°	742.1	99.5
0°-90°	746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	75	61	46	40	37	16
15°	1077	439	32	26	26	358
25°	3885	720	16	16	18	1818
35°	4066	240	8	10	13	2444
45°	772	12	4	7	10	680
55°	7	1	2	4	6	9
65°	1	1	1	3	2	1
75°	0	1	1	2	1	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	58.0	57.7	57.7	57.7	57.3	56.6	56.6	57.0	57.0	56.6	57.0
5°	75.1	74.4	74.1	73.7	72.3	72.0	70.6	71.6	70.6	69.5	69.5
7.5°	137.7	137.3	131.4	127.5	120.9	113.2	111.1	111.5	106.6	102.0	99.2
10°	398.3	399.0	381.6	388.5	363.4	353.3	334.0	327.0	309.6	294.9	277.1
11°	532.8	532.1	510.1	516.8	491.3	476.9	455.3	444.1	422.1	407.4	385.0
12°	678.2	656.9	649.6	655.8	629.6	610.8	584.6	570.2	543.0	528.0	501.1
13°	822.2	815.9	791.4	797.4	770.4	729.2	718.4	701.3	669.5	651.6	621.6
14°	946.9	923.8	916.1	920.0	893.4	854.3	843.5	838.2	789.3	770.1	736.6
15°	1077.2	1049.3	1038.4	1024.1	1008.4	961.9	946.2	936.1	885.4	853.3	831.6
17.5°	1551.0	1511.5	1485.0	1452.5	1417.9	1331.9	1296.3	1262.4	1173.7	1131.0	1066.7
20°	2225.4	2164.9	2096.8	2026.2	1958.4	1806.8	1718.7	1624.4	1503.2	1401.8	1325.0
21°	2551.7	2479.4	2397.3	2344.2	2216.6	2031.5	1912.7	1778.1	1622.3	1496.9	1400.1
22°	2893.8	2811.3	2742.9	2664.6	2487.8	2267.0	2117.8	1945.2	1743.5	1588.8	1466.5
23°	3226.1	3132.8	3050.7	2955.3	2750.9	2495.1	2318.0	2112.2	1869.3	1676.8	1525.5
24°	3543.4	3446.6	3352.2	3226.8	2992.7	2710.0	2501.8	2267.3	1989.2	1761.4	1581.1
25°	3885.1	3771.9	3649.9	3459.1	3221.2	2901.5	2661.8	2402.2	2095.8	1839.3	1627.9
26°	4225.4	4093.3	3910.6	3716.3	3431.9	3074.1	2800.9	2511.5	2186.6	1901.8	1662.5
27°	4544.8	4403.2	4188.7	3922.8	3620.9	3221.9	2915.5	2598.2	2249.8	1942.4	1678.6
28°	4818.0	4662.2	4423.2	4120.2	3761.7	3330.6	2991.3	2649.2	2280.2	1957.7	1680.7
29°	4997.9	4842.5	4584.9	4248.5	3841.4	3384.4	3021.3	2660.4	2278.5	1948.7	1666.3
30°	5071.3	4914.4	4651.3	4290.4	3856.4	3385.4	3009.1	2637.0	2248.1	1920.0	1638.0
31°	5028.3	4877.7	4610.8	4247.4	3803.3	3336.5	2957.7	2577.9	2187.6	1869.3	1595.7
32°	4869.7	4731.7	4475.2	4129.3	3693.9	3238.3	2869.3	2490.6	2102.4	1803.3	1543.0
33°	4627.9	4513.0	4250.9	3931.9	3547.9	3117.8	2761.7	2401.8	1999.7	1722.6	1486.7
34°	4396.3	4226.4	3994.1	3710.7	3360.6	2961.2	2628.3	2262.1	1890.6	1633.8	1422.4
35°	4066.1	3914.1	3699.5	3457.0	3142.6	2770.1	2437.1	2125.8	1768.7	1548.2	1355.0
36°	3717.7	3583.9	3428.0	3210.7	2909.9	2570.6	2265.9	1958.4	1643.3	1452.8	1283.7
37°	3292.1	3262.1	3117.1	2935.7	2667.0	2353.6	2067.1	1801.2	1525.9	1364.8	1205.5
38°	3040.9	2942.4	2809.6	2649.9	2386.5	2135.6	1875.3	1643.3	1419.3	1282.3	1116.4
39°	2721.2	2638.0	2515.7	2372.1	2145.4	1908.5	1696.7	1511.5	1331.2	1199.2	1020.3
40°	2413.7	2344.5	2232.4	2109.0	1903.2	1708.3	1542.6	1395.5	1243.9	1110.4	925.2
42.5°	1522.0	1487.8	1441.7	1424.9	1351.2	1300.5	1240.1	1155.1	1021.7	871.4	742.1
45°	772.2	750.2	749.5	783.7	807.1	809.6	804.0	782.3	695.7	652.7	537.7
47.5°	130.0	123.7	127.5	150.6	183.1	222.6	266.6	320.8	378.8	366.5	282.3
50°	43.0	41.6	40.5	41.6	40.2	41.2	40.5	39.5	35.6	37.4	38.4
51°	26.6	28.3	27.3	28.0	27.6	28.7	28.7	28.3	25.9	24.1	22.0
52°	18.2	18.5	18.9	19.2	18.9	19.2	19.6	19.6	18.9	18.2	16.4
53°	12.9	12.9	13.3	13.3	13.3	13.6	13.6	13.6	13.3	13.3	12.9
54°	9.1	9.4	9.4	9.4	9.4	9.8	9.8	9.8	10.1	9.8	9.8
55°	6.6	6.6	6.6	6.6	6.6	6.6	7.0	7.0	7.3	7.3	7.0
57.5°	2.8	2.8	2.4	2.8	2.8	2.8	2.8	3.1	3.1	3.5	3.5
60°	1.4	1.4	1.4	1.4	1.0	1.4	1.4	1.4	1.4	1.7	1.7



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.7	0.7	0.7	0.7
64°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3
66°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	55.9	56.6	55.6	56.3	54.9	54.9	53.8	54.2	53.8	53.1	53.1
5°	67.8	67.8	66.0	66.0	63.9	62.9	61.1	61.1	60.1	58.4	58.0
7.5°	92.9	89.4	85.6	84.2	80.0	77.2	74.1	72.7	69.5	66.7	64.6
10°	248.8	225.7	203.0	189.0	154.8	130.0	111.5	98.9	89.8	79.0	74.8
11°	350.8	321.5	291.8	262.8	229.2	195.3	174.0	140.5	119.1	95.0	83.5
12°	461.2	426.6	390.6	357.8	317.6	275.0	245.6	203.0	173.0	132.8	104.8
13°	574.4	535.3	492.3	458.1	412.7	363.7	317.6	278.1	240.7	188.3	147.5
14°	683.4	641.9	594.7	558.7	507.7	454.6	402.5	358.8	313.4	250.9	200.6
15°	780.6	750.9	691.1	655.5	600.6	544.0	486.0	439.2	385.4	315.9	257.9
17.5°	983.9	929.1	856.1	820.8	766.3	717.3	654.4	612.2	545.8	472.4	408.5
20°	1223.6	1142.9	1044.0	969.6	875.3	789.3	710.0	676.8	635.6	585.6	525.9
21°	1289.3	1202.3	1094.3	1018.5	921.7	833.3	740.0	687.3	642.2	598.9	548.9
22°	1337.2	1245.3	1131.7	1052.8	953.2	865.5	770.1	706.9	646.8	597.8	552.8
23°	1377.7	1279.9	1161.8	1075.8	971.7	881.2	785.5	722.6	656.2	595.4	546.5
24°	1414.4	1307.1	1183.1	1090.9	981.1	886.8	787.6	725.4	660.7	596.8	538.1
25°	1442.0	1324.3	1195.3	1098.5	983.2	885.1	782.7	720.1	655.5	592.2	528.7
26°	1460.9	1332.3	1198.8	1098.2	979.0	878.1	772.5	709.3	642.9	575.8	513.3
27°	1466.8	1330.2	1193.9	1090.2	968.6	864.4	755.4	688.7	623.3	556.3	492.7
28°	1460.9	1321.8	1182.7	1074.4	951.1	842.1	727.8	661.4	602.4	534.6	467.5
29°	1444.5	1306.8	1162.1	1051.0	923.5	805.7	692.5	635.2	578.3	501.8	425.2
30°	1418.9	1279.5	1132.4	1016.8	882.6	760.0	660.7	611.1	538.4	448.6	366.2
31°	1383.3	1244.2	1094.0	971.4	828.1	715.2	633.1	566.0	476.2	378.4	294.2
32°	1340.0	1202.3	1038.1	910.9	774.3	679.9	584.2	497.2	397.6	295.3	214.5
33°	1293.5	1148.5	974.2	847.3	728.2	632.8	513.6	412.3	309.6	207.5	135.2
34°	1239.7	1082.5	902.5	783.4	676.5	561.8	429.8	320.4	220.8	126.1	69.5
35°	1174.7	1001.1	831.2	728.2	602.4	467.9	337.9	240.0	138.4	63.6	37.7
36°	1096.1	917.2	769.4	657.2	515.7	375.6	243.9	153.0	74.4	37.4	29.7
37°	996.2	848.4	704.4	572.7	422.1	282.0	157.2	83.2	42.6	30.4	25.2
38°	909.9	784.8	634.9	480.4	325.3	193.2	95.4	46.8	33.5	25.5	21.0
39°	835.4	716.6	543.7	383.3	232.0	117.1	52.4	35.6	28.0	21.0	17.8
40°	770.4	619.5	447.2	287.6	149.2	65.0	37.7	29.7	22.7	17.5	14.3
42.5°	565.3	393.1	207.2	92.9	43.7	32.5	23.8	18.9	14.7	10.8	9.1
45°	335.8	176.8	62.5	38.1	27.6	20.6	15.0	11.9	9.1	6.6	5.6
47.5°	122.6	44.7	30.7	23.1	17.5	12.9	9.4	7.3	5.6	3.8	3.1
50°	25.2	21.7	16.8	13.6	10.1	7.7	5.6	4.2	3.1	2.4	2.1
51°	19.2	16.8	13.6	10.8	8.0	6.3	4.5	3.5	2.8	2.1	1.7
52°	14.7	12.9	10.5	8.7	6.6	4.9	3.5	2.8	2.1	1.4	1.4
53°	11.5	10.1	8.0	6.6	5.2	3.8	2.8	2.1	1.7	1.4	1.4
54°	8.7	7.7	6.3	5.2	4.2	3.1	2.1	1.7	1.4	1.4	1.0
55°	6.3	5.9	4.9	3.8	3.1	2.4	1.7	1.4	1.4	1.0	1.0
57.5°	3.1	2.8	2.4	2.1	1.7	1.4	1.0	1.0	1.0	1.0	0.7
60°	1.7	1.4	1.4	1.4	1.0	1.0	1.0	0.7	0.7	1.0	1.0





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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	0.7	0.7	0.7	0.7	1.0	0.7	0.7	0.7	1.0	1.0	1.0
64°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
65°	0.3	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
66°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
75°	0.3	0.3	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
77.5°	0.3	0.3	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
80°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
82.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
85°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
87.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
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: P208819

CATALOG NUMBER: LDSQA6A10940D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	52.1	52.8	52.1	51.4	51.0	51.0	50.7	49.6	50.0	49.6	49.6
5°	56.3	56.6	55.2	54.2	53.5	52.8	52.1	50.7	50.3	50.0	49.6
7.5°	61.8	61.5	58.7	57.0	55.2	53.8	52.4	50.7	50.0	48.9	48.2
10°	69.9	67.4	62.9	59.7	57.3	54.5	52.4	49.6	48.2	46.8	45.8
11°	73.4	69.9	65.3	61.1	58.0	54.9	52.4	48.9	47.2	45.8	44.4
12°	84.2	74.8	67.4	62.9	58.7	55.2	52.1	48.6	46.5	44.4	43.0
13°	109.0	87.0	72.0	63.9	59.7	55.6	51.7	47.9	45.4	43.0	41.6
14°	149.5	111.8	83.2	67.8	60.1	55.6	51.4	47.2	44.4	41.9	40.2
15°	198.1	150.2	105.9	77.2	61.5	55.2	50.7	46.1	43.0	40.2	38.4
17.5°	333.7	271.1	203.4	144.7	89.4	60.4	47.9	42.6	38.8	35.6	33.5
20°	447.2	375.3	298.7	225.7	154.8	96.4	55.2	38.8	34.2	30.7	28.7
21°	472.1	404.6	323.6	247.0	173.7	111.8	62.5	38.8	32.5	29.0	26.9
22°	485.0	420.0	338.9	261.0	186.6	122.6	70.2	39.1	30.7	27.3	24.8
23°	482.9	423.5	344.9	265.2	192.5	127.9	73.4	39.5	29.0	25.5	23.1
24°	470.3	414.0	338.9	260.3	190.8	126.5	72.3	38.8	27.3	23.8	21.7
25°	454.6	395.5	322.9	247.0	179.6	117.8	67.1	36.3	25.9	22.4	20.3
26°	436.8	377.0	300.5	223.6	161.4	103.1	56.6	32.1	23.8	20.6	18.9
27°	415.4	352.9	272.9	198.8	136.3	83.2	45.4	27.3	22.0	18.9	17.5
28°	383.7	318.7	237.6	166.0	109.0	62.9	34.2	23.4	20.3	17.5	16.1
29°	336.1	270.4	193.6	129.6	80.0	43.3	26.2	21.0	18.2	15.7	14.7
30°	276.7	213.8	143.6	89.1	51.4	29.4	21.3	18.5	16.1	14.3	13.6
31°	209.6	152.0	92.9	51.4	30.7	21.7	18.9	16.1	14.3	12.9	12.6
32°	138.4	91.9	49.3	29.7	22.4	18.9	16.4	14.3	12.9	11.9	11.5
33°	74.1	42.3	28.3	22.4	18.9	16.4	14.3	12.6	11.5	10.8	10.5
34°	37.7	27.6	23.1	19.2	16.1	14.3	12.6	11.2	10.5	9.8	9.4
35°	28.0	23.8	19.9	16.4	14.0	12.6	11.2	10.1	9.4	8.7	8.7
36°	23.8	19.9	16.4	14.3	12.6	11.2	10.1	8.7	8.4	8.0	7.7
37°	19.9	17.1	14.3	12.2	10.8	9.8	8.7	8.0	7.3	7.0	7.0
38°	16.8	14.7	12.2	10.5	9.4	8.7	7.7	7.0	6.6	6.3	6.3
39°	14.0	12.2	10.5	9.1	8.0	7.3	6.6	6.3	5.9	5.6	5.6
40°	11.5	10.5	8.7	7.7	7.0	6.3	5.9	5.6	5.2	4.9	5.2
42.5°	7.3	6.3	5.6	5.2	4.5	4.5	4.2	3.8	3.8	3.8	3.8
45°	4.2	3.8	3.5	3.5	3.1	3.1	3.1	2.8	3.1	3.1	3.1
47.5°	2.4	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.4
50°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7	1.7
51°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7
52°	1.4	1.4	1.4	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4
53°	1.0	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4
54°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4
55°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4



TEST NUMBER: P208819

CATALOG NUMBER: LDSQA6A10940D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.0	1.0	1.0	1.0	1.0	1.4	1.0	1.0	1.0	1.4	1.4
64°	1.0	1.0	1.0	1.0	1.0	1.4	1.0	1.0	1.0	1.0	1.4
65°	1.0	1.0	1.4	1.4	1.4	1.4	1.0	1.0	1.0	1.0	1.4
66°	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.0	1.0	1.4	1.4
67.5°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.0	1.4	1.4	1.4
70°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P208819

CATALOG NUMBER: LDSQA6A10940D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	48.6	48.2	47.9	47.9	45.1	43.7	41.9	41.9
5°	47.9	47.5	46.8	46.1	41.6	39.5	37.4	37.0
7.5°	46.5	45.4	44.4	43.7	38.1	35.6	33.5	33.2
10°	43.7	42.3	41.2	40.5	34.6	32.1	30.4	30.4
11°	42.3	40.9	39.8	38.8	32.8	30.7	29.4	29.4
12°	40.9	39.5	38.1	37.4	31.4	29.7	28.3	28.0
13°	39.5	37.7	36.7	35.6	30.0	28.3	27.3	27.3
14°	38.1	36.3	34.9	33.9	28.7	26.9	26.2	26.2
15°	36.0	34.2	33.2	32.1	26.9	25.9	25.2	25.5
17.5°	31.1	29.7	28.7	27.6	23.4	23.1	23.1	23.4
20°	26.6	25.2	24.1	23.4	20.3	20.6	21.0	21.7
21°	24.8	23.4	22.4	21.7	19.2	19.6	20.3	21.0
22°	23.1	22.0	21.0	20.3	18.2	18.5	19.6	20.3
23°	21.3	20.3	19.6	18.9	17.1	17.8	18.9	19.6
24°	19.9	18.9	18.2	17.5	16.1	16.8	18.2	18.9
25°	18.5	17.5	16.8	16.4	15.0	16.1	17.5	18.2
26°	17.1	16.4	15.7	15.4	14.3	15.4	16.8	17.8
27°	15.7	15.0	14.7	14.3	13.3	14.7	16.1	17.1
28°	14.7	14.0	13.6	13.3	12.6	14.0	15.7	16.4
29°	13.6	12.9	12.6	12.2	11.9	13.3	15.0	16.1
30°	12.6	12.2	11.5	11.5	11.2	12.9	14.3	15.4
31°	11.5	11.2	10.8	10.5	10.5	12.2	14.0	15.0
32°	10.8	10.5	10.1	9.8	10.1	11.5	13.3	14.7
33°	9.8	9.4	9.4	9.1	9.4	11.2	12.9	14.3
34°	8.7	8.7	8.4	8.4	9.1	10.8	12.6	13.6
35°	8.0	7.7	7.7	7.7	8.7	10.1	12.2	13.3
36°	7.3	7.3	7.0	7.0	8.4	9.8	11.9	12.9
37°	6.6	6.6	6.6	6.3	7.7	9.4	11.2	12.6
38°	5.9	5.9	5.9	5.9	7.3	9.1	11.2	12.6
39°	5.2	5.2	5.6	5.6	7.0	8.7	10.5	12.2
40°	4.9	4.9	4.9	4.9	6.6	8.4	10.1	11.9
42.5°	3.8	3.8	4.2	4.2	5.9	7.7	9.4	10.8
45°	3.1	3.1	3.5	3.5	5.2	7.0	8.4	10.1
47.5°	2.4	2.4	2.8	2.8	4.5	6.3	7.7	9.1
50°	1.7	2.1	2.1	2.4	4.2	5.6	6.6	8.0
51°	1.7	1.7	2.1	2.1	3.8	5.2	6.3	7.7
52°	1.7	1.7	2.1	2.1	3.5	4.9	5.9	7.0
53°	1.4	1.7	1.7	2.1	3.5	4.9	5.6	6.6
54°	1.4	1.4	1.7	1.7	3.5	4.5	5.6	5.9
55°	1.4	1.4	1.7	1.7	3.1	4.5	5.2	5.6
57.5°	1.4	1.4	1.4	1.4	2.8	3.8	4.5	4.5
60°	1.4	1.4	1.4	1.4	2.8	3.5	4.2	3.1



TEST NUMBER: P208819

CATALOG NUMBER: LDSQA6A10940D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.4	1.4	1.4	1.4	2.4	3.1	3.1	2.4
64°	1.4	1.4	1.4	1.4	2.4	3.1	3.1	2.4
65°	1.4	1.4	1.4	1.4	2.4	2.8	2.8	2.1
66°	1.4	1.4	1.4	1.4	2.4	2.8	2.8	2.1
67.5°	1.4	1.4	1.4	1.4	2.1	2.4	2.4	2.1
70°	1.4	1.4	1.4	1.4	2.1	2.4	2.1	1.7
72.5°	1.4	1.4	1.4	1.4	2.1	2.1	1.7	1.4
75°	1.4	1.4	1.4	1.4	1.7	1.7	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.7	1.7	1.4	1.0
80°	1.4	1.4	1.4	1.4	1.7	1.4	1.0	0.7
82.5°	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.7
85°	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3
87.5°	1.4	1.4	1.4	1.4	1.4	1.0	0.3	0.3
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°	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4
62°	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7





61°	1.4	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	1.0	1.0
62°	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	1.0	1.0





61°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4
62°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0







61°	1.4	1.4	1.4	1.4	2.4	3.5	3.8	2.8
62°	1.4	1.4	1.4	1.4	2.4	3.1	3.5	2.4



(END OF REPORT)