

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: P208820

Luminaire Tested: **LDSQA6A15827D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208820  
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: LDSQA6A15827D010TE 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 / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1219.2 lumens  
Efficiency: N/A  
Efficacy: 56.0 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

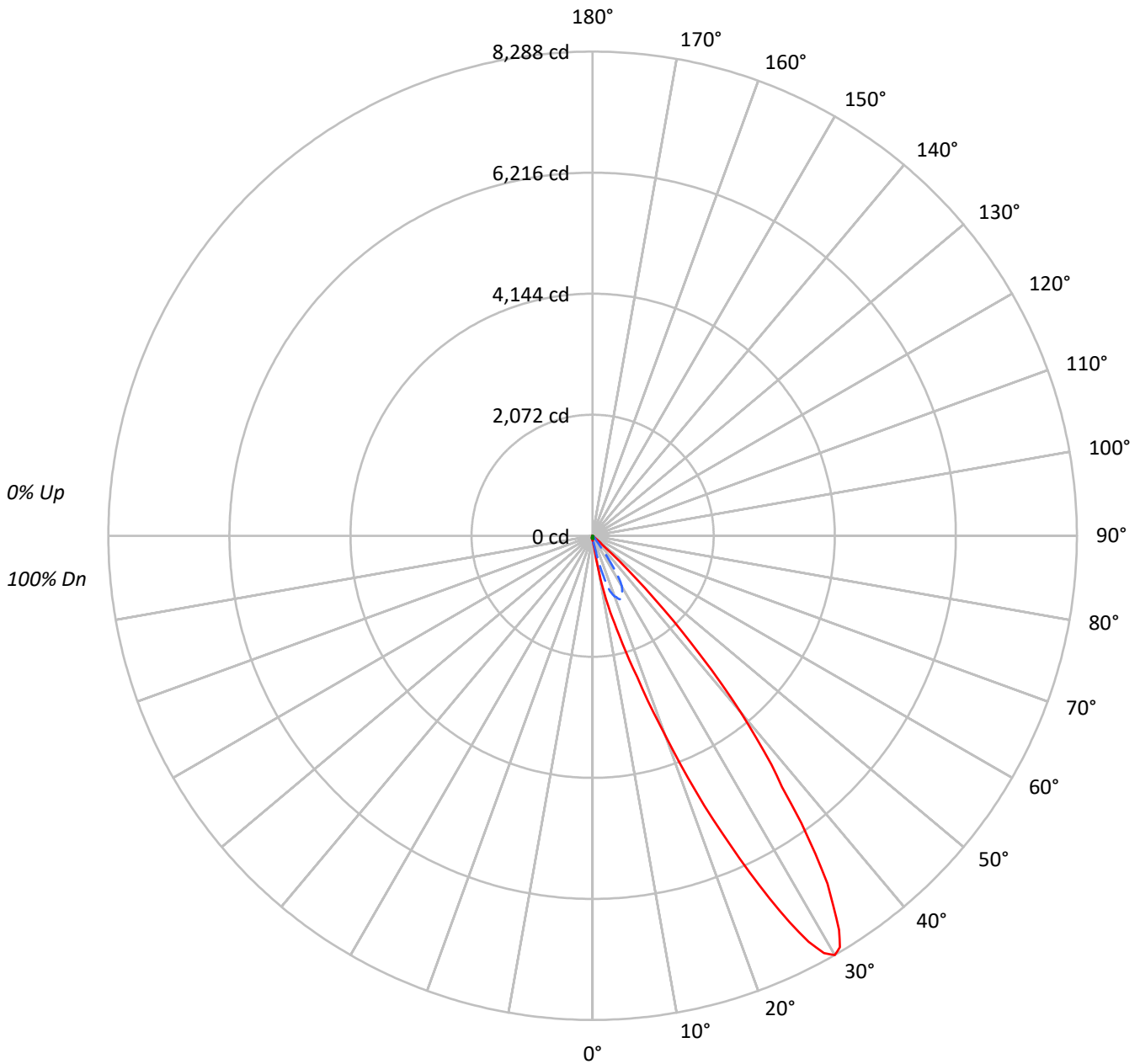
Input Watts (W): 21.79  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	3440	3440	3440
5°	5307	3259	2615
10°	28457	2894	2173
15°	78469	2340	1859
20°	166630	1755	1622
25°	301620	1273	1411
30°	412025	935	1248
35°	349254	662	1141
40°	221701	450	1090
45°	76837	347	1011
50°	4702	268	877
55°	811	218	683
60°	198	198	439
65°	112	234	346
70°	138	290	365
75°	0	383	383
80°	0	570	273
85°	0	1136	296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.9	0.8
10°-20°	125.4	10.3
20°-30°	435.7	35.7
30°-40°	477.6	39.2
40°-50°	157.5	12.9
50°-60°	6.5	0.5
60°-70°	2.8	0.2
70°-80°	2.2	0.2
80°-90°	1.4	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°	571.0	46.8
0°-40°	1048.7	86.0
0°-60°	1212.7	99.5
0°-90°	1219.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	123	100	75	64	60	26
15°	1760	718	52	42	42	585
25°	6349	1177	27	26	30	2971
35°	6645	392	13	17	22	3994
45°	1262	19	6	11	17	1112
55°	11	2	3	7	9	15
65°	1	2	2	5	3	1
75°	0	2	2	3	2	0
85°	0	2	2	2	1	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°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
2.5°	94.8	94.2	94.2	94.2	93.6	92.5	92.5	93.1	93.1	92.5	93.1
5°	122.8	121.6	121.1	120.5	118.2	117.6	115.3	117.1	115.3	113.6	113.6
7.5°	225.0	224.4	214.7	208.4	197.6	185.0	181.6	182.1	174.2	166.7	162.2
10°	650.9	652.1	623.5	635.0	593.8	577.3	545.9	534.5	505.9	481.9	452.8
11°	870.8	869.6	833.7	844.5	802.8	779.4	744.0	725.7	689.8	665.8	629.2
12°	1108.3	1073.5	1061.5	1071.8	1028.9	998.1	955.3	931.9	887.3	862.8	818.8
13°	1343.6	1333.3	1293.3	1303.0	1259.1	1191.7	1174.0	1146.0	1094.0	1064.9	1015.8
14°	1547.4	1509.7	1497.2	1503.4	1460.0	1396.1	1378.4	1369.8	1289.9	1258.5	1203.7
15°	1760.4	1714.7	1697.0	1673.6	1647.9	1572.0	1546.3	1529.7	1446.9	1394.4	1359.0
17.5°	2534.7	2470.1	2426.8	2373.7	2317.1	2176.7	2118.4	2063.0	1918.0	1848.3	1743.3
20°	3636.7	3537.9	3426.6	3311.2	3200.5	2952.6	2808.8	2654.6	2456.4	2290.9	2165.2
21°	4170.0	4051.8	3917.6	3830.8	3622.4	3319.8	3125.7	2905.8	2651.2	2446.2	2288.0
22°	4729.0	4594.3	4482.4	4354.5	4065.5	3704.7	3460.8	3178.8	2849.3	2596.3	2396.5
23°	5272.1	5119.6	4985.4	4829.5	4495.5	4077.5	3788.0	3451.7	3054.9	2740.2	2493.0
24°	5790.5	5632.4	5478.2	5273.2	4890.6	4428.7	4088.4	3705.2	3250.7	2878.4	2583.8
25°	6349.0	6164.0	5964.7	5652.9	5264.1	4741.6	4349.9	3925.6	3424.9	3005.7	2660.3
26°	6905.1	6689.3	6390.6	6073.2	5608.4	5023.7	4577.1	4104.4	3573.3	3108.0	2716.8
27°	7427.0	7195.8	6845.2	6410.6	5917.3	5265.2	4764.4	4246.0	3676.7	3174.2	2743.1
28°	7873.5	7618.9	7228.3	6733.2	6147.4	5442.8	4888.3	4329.3	3726.4	3199.3	2746.5
29°	8167.6	7913.5	7492.7	6942.8	6277.6	5530.7	4937.4	4347.6	3723.5	3184.5	2723.1
30°	8287.5	8031.1	7601.2	7011.3	6302.1	5532.4	4917.5	4309.3	3673.8	3137.6	2676.9
31°	8217.3	7971.2	7534.9	6941.1	6215.3	5452.5	4833.5	4212.8	3575.0	3054.9	2607.8
32°	7958.0	7732.5	7313.4	6748.1	6036.6	5292.0	4689.1	4070.1	3435.7	2946.9	2521.5
33°	7562.9	7375.0	6946.8	6425.5	5797.9	5095.0	4513.2	3925.1	3267.8	2815.0	2429.6
34°	7184.3	6906.8	6527.1	6064.0	5491.9	4839.2	4295.1	3696.7	3089.7	2670.0	2324.5
35°	6644.7	6396.4	6045.8	5649.5	5135.6	4526.9	3982.7	3474.0	2890.4	2530.1	2214.3
36°	6075.4	5856.8	5602.1	5246.9	4755.3	4200.9	3702.9	3200.5	2685.4	2374.2	2097.9
37°	5380.0	5330.9	5093.9	4797.5	4358.4	3846.3	3378.0	2943.5	2493.6	2230.3	1970.0
38°	4969.4	4808.4	4591.4	4330.5	3899.9	3490.0	3064.6	2685.4	2319.4	2095.6	1824.3
39°	4447.0	4311.1	4111.2	3876.5	3505.9	3118.8	2772.8	2470.1	2175.5	1959.7	1667.3
40°	3944.5	3831.4	3648.1	3446.6	3110.2	2791.6	2521.0	2280.6	2032.8	1814.6	1512.0
42.5°	2487.3	2431.3	2355.9	2328.5	2208.1	2125.3	2026.5	1887.7	1669.6	1424.1	1212.8
45°	1261.9	1225.9	1224.8	1280.8	1319.0	1323.0	1313.9	1278.5	1136.9	1066.6	878.8
47.5°	212.4	202.1	208.4	246.1	299.2	363.7	435.7	524.2	619.0	599.0	461.4
50°	70.2	67.9	66.2	67.9	65.7	67.4	66.2	64.5	58.2	61.1	62.8
51°	43.4	46.3	44.5	45.7	45.1	46.8	46.8	46.3	42.3	39.4	36.0
52°	29.7	30.3	30.8	31.4	30.8	31.4	32.0	32.0	30.8	29.7	26.8
53°	21.1	21.1	21.7	21.7	21.7	22.3	22.3	22.3	21.7	21.7	21.1
54°	14.8	15.4	15.4	15.4	15.4	16.0	16.0	16.0	16.6	16.0	16.0
55°	10.8	10.8	10.8	10.8	10.8	10.8	11.4	11.4	12.0	12.0	11.4
57.5°	4.6	4.6	4.0	4.6	4.6	4.6	4.6	5.1	5.1	5.7	5.7
60°	2.3	2.3	2.3	2.3	1.7	2.3	2.3	2.3	2.3	2.9	2.9



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.1	1.1	1.1	1.1	1.1	1.1	0.6	1.1	1.1	1.1	1.1
64°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6
66°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
2.5°	91.4	92.5	90.8	91.9	89.6	89.6	87.9	88.5	87.9	86.8	86.8
5°	110.8	110.8	107.9	107.9	104.5	102.8	99.9	99.9	98.2	95.4	94.8
7.5°	151.9	146.2	139.9	137.6	130.8	126.2	121.1	118.8	113.6	109.1	105.6
10°	406.6	368.9	331.8	308.9	253.0	212.4	182.1	161.6	146.7	129.0	122.2
11°	573.3	525.3	476.8	429.4	374.6	319.2	284.4	229.5	194.7	155.3	136.5
12°	753.7	697.2	638.4	584.7	519.0	449.4	401.4	331.8	282.6	217.0	171.3
13°	938.7	874.8	804.5	748.6	674.4	594.4	519.0	454.5	393.4	307.8	241.0
14°	1116.9	1048.9	971.8	913.0	829.7	742.9	657.8	586.4	512.2	410.0	327.8
15°	1275.6	1227.1	1129.4	1071.2	981.6	889.0	794.3	717.7	629.8	516.2	421.4
17.5°	1607.9	1518.3	1399.0	1341.3	1252.2	1172.3	1069.5	1000.4	891.9	772.0	667.5
20°	1999.6	1867.7	1706.2	1584.5	1430.4	1289.9	1160.3	1106.0	1038.7	957.0	859.4
21°	2107.0	1964.8	1788.4	1664.5	1506.3	1361.8	1209.4	1123.2	1049.5	978.7	897.0
22°	2185.2	2035.0	1849.5	1720.4	1557.7	1414.4	1258.5	1155.1	1056.9	977.0	903.3
23°	2251.5	2091.6	1898.6	1758.1	1588.0	1440.1	1283.6	1180.8	1072.3	973.0	893.0
24°	2311.4	2136.1	1933.4	1782.7	1603.4	1449.2	1287.0	1185.4	1079.8	975.3	879.3
25°	2356.5	2164.1	1953.4	1795.2	1606.8	1446.3	1279.0	1176.8	1071.2	967.8	863.9
26°	2387.4	2177.2	1959.1	1794.7	1599.9	1434.9	1262.5	1159.1	1050.6	941.0	838.8
27°	2397.1	2173.8	1951.1	1781.5	1582.8	1412.7	1234.5	1125.4	1018.7	909.0	805.1
28°	2387.4	2160.1	1932.8	1755.8	1554.3	1376.1	1189.4	1080.9	984.4	873.6	764.0
29°	2360.5	2135.5	1899.1	1717.6	1509.2	1316.7	1131.7	1038.1	945.0	820.0	694.9
30°	2318.8	2091.0	1850.6	1661.6	1442.3	1241.9	1079.8	998.7	879.9	733.2	598.4
31°	2260.6	2033.3	1787.8	1587.4	1353.3	1168.8	1034.7	925.0	778.3	618.4	480.8
32°	2189.8	1964.8	1696.4	1488.6	1265.3	1111.2	954.7	812.5	649.8	482.5	350.6
33°	2113.8	1876.9	1592.0	1384.7	1190.0	1034.1	839.4	673.8	505.9	339.2	221.0
34°	2025.9	1769.0	1474.9	1280.2	1105.5	918.2	702.3	523.6	360.9	206.1	113.6
35°	1919.7	1635.9	1358.4	1190.0	984.4	764.6	552.2	392.3	226.1	103.9	61.7
36°	1791.2	1498.9	1257.3	1074.1	842.8	613.8	398.6	250.1	121.6	61.1	48.5
37°	1627.9	1386.4	1151.1	935.9	689.8	460.8	257.0	135.9	69.7	49.7	41.1
38°	1486.9	1282.5	1037.5	785.1	531.6	315.8	155.9	76.5	54.8	41.7	34.3
39°	1365.3	1171.1	888.5	626.4	379.1	191.3	85.7	58.2	45.7	34.3	29.1
40°	1259.1	1012.4	730.9	469.9	243.8	106.2	61.7	48.5	37.1	28.6	23.4
42.5°	923.9	642.4	338.6	151.9	71.4	53.1	38.8	30.8	24.0	17.7	14.8
45°	548.7	288.9	102.2	62.2	45.1	33.7	24.6	19.4	14.8	10.8	9.1
47.5°	200.4	73.1	50.2	37.7	28.6	21.1	15.4	12.0	9.1	6.3	5.1
50°	41.1	35.4	27.4	22.3	16.6	12.6	9.1	6.9	5.1	4.0	3.4
51°	31.4	27.4	22.3	17.7	13.1	10.3	7.4	5.7	4.6	3.4	2.9
52°	24.0	21.1	17.1	14.3	10.8	8.0	5.7	4.6	3.4	2.3	2.3
53°	18.8	16.6	13.1	10.8	8.6	6.3	4.6	3.4	2.9	2.3	2.3
54°	14.3	12.6	10.3	8.6	6.9	5.1	3.4	2.9	2.3	2.3	1.7
55°	10.3	9.7	8.0	6.3	5.1	4.0	2.9	2.3	2.3	1.7	1.7
57.5°	5.1	4.6	4.0	3.4	2.9	2.3	1.7	1.7	1.7	1.7	1.1
60°	2.9	2.3	2.3	2.3	1.7	1.7	1.7	1.1	1.1	1.7	1.7





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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°	1.1	1.1	1.1	1.1	1.7	1.1	1.1	1.1	1.7	1.7	1.7
64°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
65°	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
66°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
75°	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
77.5°	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
80°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
82.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
85°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
87.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
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: P208820

CATALOG NUMBER: LDSQA6A15827D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
2.5°	85.1	86.2	85.1	83.9	83.4	83.4	82.8	81.1	81.7	81.1	81.1
5°	91.9	92.5	90.2	88.5	87.4	86.2	85.1	82.8	82.2	81.7	81.1
7.5°	101.1	100.5	95.9	93.1	90.2	87.9	85.7	82.8	81.7	79.9	78.8
10°	114.2	110.2	102.8	97.6	93.6	89.1	85.7	81.1	78.8	76.5	74.8
11°	119.9	114.2	106.8	99.9	94.8	89.6	85.7	79.9	77.1	74.8	72.5
12°	137.6	122.2	110.2	102.8	95.9	90.2	85.1	79.4	75.9	72.5	70.2
13°	178.2	142.2	117.6	104.5	97.6	90.8	84.5	78.2	74.2	70.2	67.9
14°	244.4	182.7	135.9	110.8	98.2	90.8	83.9	77.1	72.5	68.5	65.7
15°	323.8	245.5	173.0	126.2	100.5	90.2	82.8	75.4	70.2	65.7	62.8
17.5°	545.3	443.1	332.3	236.4	146.2	98.8	78.2	69.7	63.4	58.2	54.8
20°	730.9	613.3	488.2	368.9	253.0	157.6	90.2	63.4	56.0	50.2	46.8
21°	771.4	661.2	528.7	403.7	283.8	182.7	102.2	63.4	53.1	47.4	44.0
22°	792.5	686.3	553.9	426.5	304.9	200.4	114.8	64.0	50.2	44.5	40.5
23°	789.1	692.1	563.6	433.4	314.6	209.0	119.9	64.5	47.4	41.7	37.7
24°	768.6	676.6	553.9	425.4	311.8	206.7	118.2	63.4	44.5	38.8	35.4
25°	742.9	646.4	527.6	403.7	293.5	192.4	109.6	59.4	42.3	36.5	33.1
26°	713.8	616.1	491.1	365.4	263.8	168.4	92.5	52.5	38.8	33.7	30.8
27°	678.9	576.7	446.0	324.9	222.7	135.9	74.2	44.5	36.0	30.8	28.6
28°	627.0	520.8	388.3	271.2	178.2	102.8	56.0	38.3	33.1	28.6	26.3
29°	549.3	442.0	316.3	211.8	130.8	70.8	42.8	34.3	29.7	25.7	24.0
30°	452.2	349.5	234.7	145.6	83.9	48.0	34.8	30.3	26.3	23.4	22.3
31°	342.6	248.4	151.9	83.9	50.2	35.4	30.8	26.3	23.4	21.1	20.6
32°	226.1	150.2	80.5	48.5	36.5	30.8	26.8	23.4	21.1	19.4	18.8
33°	121.1	69.1	46.3	36.5	30.8	26.8	23.4	20.6	18.8	17.7	17.1
34°	61.7	45.1	37.7	31.4	26.3	23.4	20.6	18.3	17.1	16.0	15.4
35°	45.7	38.8	32.5	26.8	22.8	20.6	18.3	16.6	15.4	14.3	14.3
36°	38.8	32.5	26.8	23.4	20.6	18.3	16.6	14.3	13.7	13.1	12.6
37°	32.5	28.0	23.4	20.0	17.7	16.0	14.3	13.1	12.0	11.4	11.4
38°	27.4	24.0	20.0	17.1	15.4	14.3	12.6	11.4	10.8	10.3	10.3
39°	22.8	20.0	17.1	14.8	13.1	12.0	10.8	10.3	9.7	9.1	9.1
40°	18.8	17.1	14.3	12.6	11.4	10.3	9.7	9.1	8.6	8.0	8.6
42.5°	12.0	10.3	9.1	8.6	7.4	7.4	6.9	6.3	6.3	6.3	6.3
45°	6.9	6.3	5.7	5.7	5.1	5.1	5.1	4.6	5.1	5.1	5.1
47.5°	4.0	4.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.0	4.0
50°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9
51°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9
52°	2.3	2.3	2.3	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3
53°	1.7	2.3	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3
54°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
57.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3



TEST NUMBER: P208820

CATALOG NUMBER: LDSQA6A15827D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.7	1.7	1.7	1.7	1.7	2.3	1.7	1.7	1.7	2.3	2.3
64°	1.7	1.7	1.7	1.7	1.7	2.3	1.7	1.7	1.7	1.7	2.3
65°	1.7	1.7	2.3	2.3	2.3	2.3	1.7	1.7	1.7	1.7	2.3
66°	1.7	1.7	2.3	2.3	2.3	2.3	2.3	1.7	1.7	2.3	2.3
67.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	1.7	2.3	2.3	2.3
70°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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: P208820

CATALOG NUMBER: LDSQA6A15827D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
2.5°	79.4	78.8	78.2	78.2	73.7	71.4	68.5	68.5
5°	78.2	77.7	76.5	75.4	67.9	64.5	61.1	60.5
7.5°	75.9	74.2	72.5	71.4	62.2	58.2	54.8	54.2
10°	71.4	69.1	67.4	66.2	56.5	52.5	49.7	49.7
11°	69.1	66.8	65.1	63.4	53.7	50.2	48.0	48.0
12°	66.8	64.5	62.2	61.1	51.4	48.5	46.3	45.7
13°	64.5	61.7	60.0	58.2	49.1	46.3	44.5	44.5
14°	62.2	59.4	57.1	55.4	46.8	44.0	42.8	42.8
15°	58.8	56.0	54.2	52.5	44.0	42.3	41.1	41.7
17.5°	50.8	48.5	46.8	45.1	38.3	37.7	37.7	38.3
20°	43.4	41.1	39.4	38.3	33.1	33.7	34.3	35.4
21°	40.5	38.3	36.5	35.4	31.4	32.0	33.1	34.3
22°	37.7	36.0	34.3	33.1	29.7	30.3	32.0	33.1
23°	34.8	33.1	32.0	30.8	28.0	29.1	30.8	32.0
24°	32.5	30.8	29.7	28.6	26.3	27.4	29.7	30.8
25°	30.3	28.6	27.4	26.8	24.6	26.3	28.6	29.7
26°	28.0	26.8	25.7	25.1	23.4	25.1	27.4	29.1
27°	25.7	24.6	24.0	23.4	21.7	24.0	26.3	28.0
28°	24.0	22.8	22.3	21.7	20.6	22.8	25.7	26.8
29°	22.3	21.1	20.6	20.0	19.4	21.7	24.6	26.3
30°	20.6	20.0	18.8	18.8	18.3	21.1	23.4	25.1
31°	18.8	18.3	17.7	17.1	17.1	20.0	22.8	24.6
32°	17.7	17.1	16.6	16.0	16.6	18.8	21.7	24.0
33°	16.0	15.4	15.4	14.8	15.4	18.3	21.1	23.4
34°	14.3	14.3	13.7	13.7	14.8	17.7	20.6	22.3
35°	13.1	12.6	12.6	12.6	14.3	16.6	20.0	21.7
36°	12.0	12.0	11.4	11.4	13.7	16.0	19.4	21.1
37°	10.8	10.8	10.8	10.3	12.6	15.4	18.3	20.6
38°	9.7	9.7	9.7	9.7	12.0	14.8	18.3	20.6
39°	8.6	8.6	9.1	9.1	11.4	14.3	17.1	20.0
40°	8.0	8.0	8.0	8.0	10.8	13.7	16.6	19.4
42.5°	6.3	6.3	6.9	6.9	9.7	12.6	15.4	17.7
45°	5.1	5.1	5.7	5.7	8.6	11.4	13.7	16.6
47.5°	4.0	4.0	4.6	4.6	7.4	10.3	12.6	14.8
50°	2.9	3.4	3.4	4.0	6.9	9.1	10.8	13.1
51°	2.9	2.9	3.4	3.4	6.3	8.6	10.3	12.6
52°	2.9	2.9	3.4	3.4	5.7	8.0	9.7	11.4
53°	2.3	2.9	2.9	3.4	5.7	8.0	9.1	10.8
54°	2.3	2.3	2.9	2.9	5.7	7.4	9.1	9.7
55°	2.3	2.3	2.9	2.9	5.1	7.4	8.6	9.1
57.5°	2.3	2.3	2.3	2.3	4.6	6.3	7.4	7.4
60°	2.3	2.3	2.3	2.3	4.6	5.7	6.9	5.1



TEST NUMBER: P208820

CATALOG NUMBER: LDSQA6A15827D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.3	2.3	2.3	2.3	4.0	5.1	5.1	4.0
64°	2.3	2.3	2.3	2.3	4.0	5.1	5.1	4.0
65°	2.3	2.3	2.3	2.3	4.0	4.6	4.6	3.4
66°	2.3	2.3	2.3	2.3	4.0	4.6	4.6	3.4
67.5°	2.3	2.3	2.3	2.3	3.4	4.0	4.0	3.4
70°	2.3	2.3	2.3	2.3	3.4	4.0	3.4	2.9
72.5°	2.3	2.3	2.3	2.3	3.4	3.4	2.9	2.3
75°	2.3	2.3	2.3	2.3	2.9	2.9	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.9	2.9	2.3	1.7
80°	2.3	2.3	2.3	2.3	2.9	2.3	1.7	1.1
82.5°	2.3	2.3	2.3	2.3	2.3	1.7	1.1	1.1
85°	2.3	2.3	2.3	2.3	2.3	1.7	1.1	0.6
87.5°	2.3	2.3	2.3	2.3	2.3	1.7	0.6	0.6
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°	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
62°	1.7	1.7	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1





61°	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.1	1.1	1.7	1.7
62°	1.7	1.7	1.7	1.7	1.7	1.7	1.1	1.1	1.1	1.7	1.7





61°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3
62°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7







61°	2.3	2.3	2.3	2.3	4.0	5.7	6.3	4.6
62°	2.3	2.3	2.3	2.3	4.0	5.1	5.7	4.0



(END OF REPORT)