

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: P208822

Luminaire Tested: **LDSQA6A15835D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208822
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: LDSQA6A15835D010TE 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: 1266.7 lumens
Efficiency: N/A
Efficacy: 58.1 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

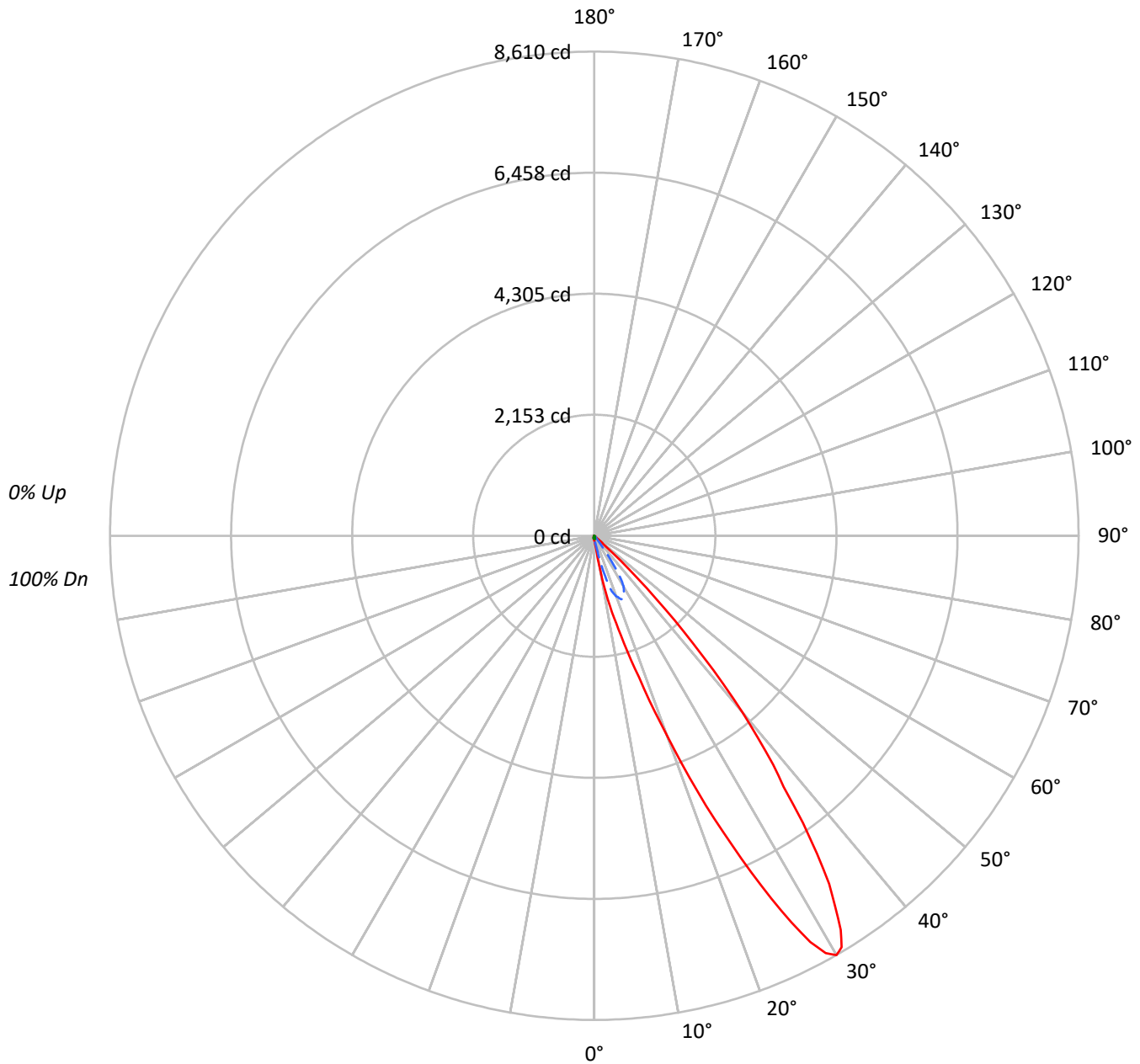
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3578	3578	3578
5°	5511	3384	2719
10°	29568	3008	2256
15°	81527	2434	1930
20°	173117	1819	1686
25°	313363	1325	1463
30°	428073	974	1298
35°	362857	689	1183
40°	230334	467	1135
45°	79833	359	1047
50°	4890	281	911
55°	848	225	713
60°	207	207	456
65°	122	245	367
70°	151	302	378
75°	0	399	399
80°	0	595	298
85°	0	1186	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.8
10°-20°	130.2	10.3
20°-30°	452.7	35.7
30°-40°	496.3	39.2
40°-50°	163.7	12.9
50°-60°	6.8	0.5
60°-70°	3.0	0.2
70°-80°	2.3	0.2
80°-90°	1.5	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°	593.2	46.8
0°-40°	1089.5	86.0
0°-60°	1260.0	99.5
0°-90°	1266.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	128	104	78	67	63	27
15°	1829	746	55	44	43	608
25°	6596	1223	28	27	31	3087
35°	6904	408	13	17	22	4149
45°	1311	20	6	12	17	1155
55°	11	2	3	8	10	16
65°	1	2	2	5	4	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°	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2.5°	98.5	97.9	97.9	97.9	97.3	96.1	96.1	96.7	96.7	96.1	96.7
5°	127.5	126.4	125.8	125.2	122.8	122.2	119.8	121.6	119.8	118.1	118.1
7.5°	233.7	233.1	223.1	216.5	205.3	192.2	188.6	189.2	180.9	173.2	168.5
10°	676.3	677.5	647.8	659.7	617.0	599.8	567.1	555.3	525.6	500.7	470.4
11°	904.7	903.5	866.1	877.4	834.1	809.8	773.0	754.0	716.6	691.7	653.7
12°	1151.5	1115.3	1102.8	1113.5	1069.0	1037.0	992.5	968.2	921.9	896.4	850.7
13°	1395.9	1385.2	1343.7	1353.8	1308.1	1238.1	1219.7	1190.6	1136.6	1106.4	1055.4
14°	1607.7	1568.5	1555.5	1562.0	1516.9	1450.5	1432.1	1423.2	1340.1	1307.5	1250.5
15°	1829.0	1781.5	1763.1	1738.8	1712.1	1633.2	1606.5	1589.3	1503.3	1448.7	1411.9
17.5°	2633.4	2566.3	2521.3	2466.1	2407.4	2261.4	2200.9	2143.4	1992.7	1920.3	1811.2
20°	3778.3	3675.7	3560.0	3440.2	3325.1	3067.6	2918.1	2758.0	2552.1	2380.1	2249.6
21°	4332.4	4209.6	4070.2	3980.0	3763.5	3449.1	3247.4	3019.0	2754.4	2541.4	2377.1
22°	4913.2	4773.2	4656.9	4524.0	4223.9	3848.9	3595.6	3302.6	2960.3	2697.5	2489.8
23°	5477.4	5319.0	5179.6	5017.6	4670.6	4236.3	3935.5	3586.1	3173.8	2846.9	2590.1
24°	6016.0	5851.7	5691.5	5478.5	5081.1	4601.2	4247.6	3849.5	3377.3	2990.5	2684.4
25°	6596.2	6404.0	6197.0	5873.1	5469.1	4926.2	4519.3	4078.5	3558.2	3122.8	2763.9
26°	7174.0	6949.8	6639.5	6309.7	5826.8	5219.3	4755.4	4264.2	3712.5	3229.0	2822.6
27°	7716.2	7476.0	7111.7	6660.3	6147.7	5470.2	4950.0	4411.3	3819.9	3297.8	2849.9
28°	8180.2	7915.6	7509.8	6995.5	6386.8	5654.7	5078.7	4497.9	3871.5	3323.9	2853.5
29°	8485.7	8221.7	7784.5	7213.2	6522.1	5746.1	5129.7	4516.9	3868.5	3308.5	2829.2
30°	8610.3	8343.9	7897.2	7284.4	6547.6	5747.9	5109.0	4477.2	3816.9	3259.8	2781.1
31°	8537.3	8281.6	7828.4	7211.4	6457.4	5664.8	5021.8	4376.9	3714.3	3173.8	2709.3
32°	8268.0	8033.6	7598.2	7010.9	6271.7	5498.1	4871.7	4228.6	3569.5	3061.7	2619.7
33°	7857.4	7662.3	7217.3	6675.7	6023.7	5293.5	4688.9	4077.9	3395.1	2924.7	2524.2
34°	7464.1	7175.8	6781.3	6300.2	5705.8	5027.7	4462.3	3840.6	3210.0	2774.0	2415.1
35°	6903.5	6645.4	6281.2	5869.5	5335.6	4703.2	4137.8	3609.3	3003.0	2628.6	2300.6
36°	6312.0	6084.8	5820.3	5451.3	4940.5	4364.4	3847.1	3325.1	2790.0	2466.7	2179.6
37°	5589.5	5538.5	5292.3	4984.4	4528.2	3996.0	3509.6	3058.1	2590.7	2317.2	2046.7
38°	5162.9	4995.7	4770.2	4499.1	4051.8	3625.9	3183.9	2790.0	2409.7	2177.2	1895.4
39°	4620.1	4478.9	4271.3	4027.5	3642.5	3240.3	2880.8	2566.3	2260.2	2036.0	1732.3
40°	4098.1	3980.6	3790.2	3580.8	3231.4	2900.3	2619.1	2369.4	2111.9	1885.3	1570.9
42.5°	2584.1	2526.0	2447.7	2419.2	2294.0	2208.0	2105.4	1961.2	1734.6	1479.5	1260.0
45°	1311.1	1273.7	1272.5	1330.6	1370.4	1374.5	1365.0	1328.3	1181.1	1108.2	913.0
47.5°	220.7	210.0	216.5	255.7	310.9	377.9	452.6	544.6	643.1	622.3	479.3
50°	73.0	70.6	68.8	70.6	68.2	70.0	68.8	67.0	60.5	63.5	65.3
51°	45.1	48.1	46.3	47.5	46.9	48.6	48.6	48.1	43.9	40.9	37.4
52°	30.8	31.4	32.0	32.6	32.0	32.6	33.2	33.2	32.0	30.8	27.9
53°	21.9	21.9	22.5	22.5	22.5	23.1	23.1	23.1	22.5	22.5	21.9
54°	15.4	16.0	16.0	16.0	16.0	16.6	16.6	16.6	17.2	16.6	16.6
55°	11.3	11.3	11.3	11.3	11.3	11.3	11.9	11.9	12.5	12.5	11.9
57.5°	4.7	4.7	4.2	4.7	4.7	4.7	4.7	5.3	5.3	5.9	5.9
60°	2.4	2.4	2.4	2.4	1.8	2.4	2.4	2.4	2.4	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2
64°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
66°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2.5°	94.9	96.1	94.3	95.5	93.1	93.1	91.4	92.0	91.4	90.2	90.2
5°	115.1	115.1	112.1	112.1	108.6	106.8	103.8	103.8	102.0	99.1	98.5
7.5°	157.8	151.9	145.3	143.0	135.9	131.1	125.8	123.4	118.1	113.3	109.7
10°	422.4	383.2	344.7	320.9	262.8	220.7	189.2	167.9	152.5	134.1	127.0
11°	595.6	545.8	495.4	446.1	389.2	331.6	295.4	238.5	202.3	161.4	141.8
12°	783.1	724.3	663.2	607.5	539.3	466.9	417.0	344.7	293.7	225.4	178.0
13°	975.3	908.8	835.9	777.7	700.6	617.6	539.3	472.2	408.7	319.8	250.3
14°	1160.4	1089.8	1009.7	948.6	862.0	771.8	683.4	609.3	532.1	425.9	340.5
15°	1325.3	1274.9	1173.4	1112.9	1019.8	923.7	825.2	745.7	654.3	536.3	437.8
17.5°	1670.6	1577.4	1453.4	1393.5	1301.0	1217.9	1111.1	1039.4	926.6	802.1	693.5
20°	2077.5	1940.5	1772.6	1646.2	1486.1	1340.1	1205.5	1149.1	1079.1	994.3	892.8
21°	2189.0	2041.3	1858.0	1729.3	1565.0	1414.9	1256.5	1166.9	1090.4	1016.8	932.0
22°	2270.3	2114.3	1921.5	1787.4	1618.4	1469.4	1307.5	1200.1	1098.1	1015.0	938.5
23°	2339.1	2173.0	1972.5	1826.6	1649.8	1496.1	1333.6	1226.8	1114.1	1010.9	927.8
24°	2401.4	2219.3	2008.7	1852.1	1665.8	1505.6	1337.2	1231.6	1121.8	1013.2	913.6
25°	2448.3	2248.4	2029.5	1865.1	1669.4	1502.7	1328.9	1222.7	1112.9	1005.5	897.6
26°	2480.3	2262.0	2035.4	1864.5	1662.3	1490.8	1311.6	1204.3	1091.6	977.7	871.5
27°	2490.4	2258.5	2027.1	1850.9	1644.5	1467.7	1282.6	1169.3	1058.3	944.4	836.5
28°	2480.3	2244.2	2008.1	1824.2	1614.8	1429.7	1235.7	1123.0	1022.7	907.7	793.8
29°	2452.4	2218.7	1973.1	1784.5	1567.9	1368.0	1175.8	1078.5	981.8	851.9	722.0
30°	2409.1	2172.4	1922.7	1726.3	1498.5	1290.3	1121.8	1037.6	914.2	761.7	621.7
31°	2348.6	2112.5	1857.4	1649.2	1406.0	1214.4	1074.9	961.0	808.6	642.5	499.5
32°	2275.1	2041.3	1762.5	1546.6	1314.6	1154.4	991.9	844.2	675.1	501.3	364.2
33°	2196.2	1950.0	1653.9	1438.6	1236.3	1074.4	872.1	700.0	525.6	352.4	229.6
34°	2104.8	1837.9	1532.3	1330.0	1148.5	953.9	729.7	544.0	374.9	214.2	118.1
35°	1994.5	1699.6	1411.3	1236.3	1022.7	794.3	573.7	407.6	234.9	108.0	64.1
36°	1861.0	1557.2	1306.3	1115.9	875.6	637.7	414.1	259.8	126.4	63.5	50.4
37°	1691.3	1440.4	1196.0	972.3	716.6	478.7	267.0	141.2	72.4	51.6	42.7
38°	1544.8	1332.4	1077.9	815.7	552.3	328.1	162.0	79.5	57.0	43.3	35.6
39°	1418.4	1216.7	923.1	650.8	393.9	198.7	89.0	60.5	47.5	35.6	30.3
40°	1308.1	1051.8	759.3	488.2	253.3	110.3	64.1	50.4	38.6	29.7	24.3
42.5°	959.9	667.4	351.8	157.8	74.2	55.2	40.3	32.0	24.9	18.4	15.4
45°	570.1	300.2	106.2	64.7	46.9	35.0	25.5	20.2	15.4	11.3	9.5
47.5°	208.2	75.9	52.2	39.2	29.7	21.9	16.0	12.5	9.5	6.5	5.3
50°	42.7	36.8	28.5	23.1	17.2	13.1	9.5	7.1	5.3	4.2	3.6
51°	32.6	28.5	23.1	18.4	13.6	10.7	7.7	5.9	4.7	3.6	3.0
52°	24.9	21.9	17.8	14.8	11.3	8.3	5.9	4.7	3.6	2.4	2.4
53°	19.6	17.2	13.6	11.3	8.9	6.5	4.7	3.6	3.0	2.4	2.4
54°	14.8	13.1	10.7	8.9	7.1	5.3	3.6	3.0	2.4	2.4	1.8
55°	10.7	10.1	8.3	6.5	5.3	4.2	3.0	2.4	2.4	1.8	1.8
57.5°	5.3	4.7	4.2	3.6	3.0	2.4	1.8	1.8	1.8	1.8	1.2
60°	3.0	2.4	2.4	2.4	1.8	1.8	1.8	1.2	1.2	1.8	1.8



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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°	1.2	1.2	1.2	1.2	1.8	1.2	1.2	1.2	1.8	1.8	1.8
64°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
65°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
66°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
75°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
77.5°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
80°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
82.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
85°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
87.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
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: P208822

CATALOG NUMBER: LDSQA6A15835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2.5°	88.4	89.6	88.4	87.2	86.6	86.6	86.0	84.2	84.8	84.2	84.2
5°	95.5	96.1	93.7	92.0	90.8	89.6	88.4	86.0	85.4	84.8	84.2
7.5°	105.0	104.4	99.7	96.7	93.7	91.4	89.0	86.0	84.8	83.1	81.9
10°	118.6	114.5	106.8	101.4	97.3	92.5	89.0	84.2	81.9	79.5	77.7
11°	124.6	118.6	110.9	103.8	98.5	93.1	89.0	83.1	80.1	77.7	75.3
12°	143.0	127.0	114.5	106.8	99.7	93.7	88.4	82.5	78.9	75.3	73.0
13°	185.1	147.7	122.2	108.6	101.4	94.3	87.8	81.3	77.1	73.0	70.6
14°	253.9	189.8	141.2	115.1	102.0	94.3	87.2	80.1	75.3	71.2	68.2
15°	336.4	255.1	179.8	131.1	104.4	93.7	86.0	78.3	73.0	68.2	65.3
17.5°	566.5	460.4	345.3	245.6	151.9	102.6	81.3	72.4	65.8	60.5	57.0
20°	759.3	637.1	507.2	383.2	262.8	163.7	93.7	65.8	58.1	52.2	48.6
21°	801.5	687.0	549.3	419.4	294.8	189.8	106.2	65.8	55.2	49.2	45.7
22°	823.4	713.1	575.4	443.1	316.8	208.2	119.2	66.4	52.2	46.3	42.1
23°	819.9	719.0	585.5	450.3	326.9	217.1	124.6	67.0	49.2	43.3	39.2
24°	798.5	703.0	575.4	442.0	323.9	214.8	122.8	65.8	46.3	40.3	36.8
25°	771.8	671.5	548.2	419.4	304.9	199.9	113.9	61.7	43.9	38.0	34.4
26°	741.5	640.1	510.2	379.7	274.1	175.0	96.1	54.6	40.3	35.0	32.0
27°	705.4	599.2	463.3	337.6	231.4	141.2	77.1	46.3	37.4	32.0	29.7
28°	651.4	541.0	403.4	281.8	185.1	106.8	58.1	39.7	34.4	29.7	27.3
29°	570.7	459.2	328.7	220.1	135.9	73.6	44.5	35.6	30.8	26.7	24.9
30°	469.8	363.1	243.8	151.3	87.2	49.8	36.2	31.4	27.3	24.3	23.1
31°	355.9	258.1	157.8	87.2	52.2	36.8	32.0	27.3	24.3	21.9	21.4
32°	234.9	156.0	83.6	50.4	38.0	32.0	27.9	24.3	21.9	20.2	19.6
33°	125.8	71.8	48.1	38.0	32.0	27.9	24.3	21.4	19.6	18.4	17.8
34°	64.1	46.9	39.2	32.6	27.3	24.3	21.4	19.0	17.8	16.6	16.0
35°	47.5	40.3	33.8	27.9	23.7	21.4	19.0	17.2	16.0	14.8	14.8
36°	40.3	33.8	27.9	24.3	21.4	19.0	17.2	14.8	14.2	13.6	13.1
37°	33.8	29.1	24.3	20.8	18.4	16.6	14.8	13.6	12.5	11.9	11.9
38°	28.5	24.9	20.8	17.8	16.0	14.8	13.1	11.9	11.3	10.7	10.7
39°	23.7	20.8	17.8	15.4	13.6	12.5	11.3	10.7	10.1	9.5	9.5
40°	19.6	17.8	14.8	13.1	11.9	10.7	10.1	9.5	8.9	8.3	8.9
42.5°	12.5	10.7	9.5	8.9	7.7	7.7	7.1	6.5	6.5	6.5	6.5
45°	7.1	6.5	5.9	5.9	5.3	5.3	5.3	4.7	5.3	5.3	5.3
47.5°	4.2	4.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.2	4.2
50°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.0
51°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0
52°	2.4	2.4	2.4	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4
53°	1.8	2.4	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4
54°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4
55°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4
57.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4



TEST NUMBER: P208822

CATALOG NUMBER: LDSQA6A15835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.8	1.8	1.8	1.8	1.8	2.4	1.8	1.8	1.8	2.4	2.4
64°	1.8	1.8	1.8	1.8	1.8	2.4	1.8	1.8	1.8	1.8	2.4
65°	1.8	1.8	2.4	2.4	2.4	2.4	1.8	1.8	1.8	1.8	2.4
66°	1.8	1.8	2.4	2.4	2.4	2.4	2.4	1.8	1.8	2.4	2.4
67.5°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	1.8	2.4	2.4	2.4
70°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
75°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: P208822

CATALOG NUMBER: LDSQA6A15835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2.5°	82.5	81.9	81.3	81.3	76.5	74.2	71.2	71.2
5°	81.3	80.7	79.5	78.3	70.6	67.0	63.5	62.9
7.5°	78.9	77.1	75.3	74.2	64.7	60.5	57.0	56.4
10°	74.2	71.8	70.0	68.8	58.7	54.6	51.6	51.6
11°	71.8	69.4	67.6	65.8	55.8	52.2	49.8	49.8
12°	69.4	67.0	64.7	63.5	53.4	50.4	48.1	47.5
13°	67.0	64.1	62.3	60.5	51.0	48.1	46.3	46.3
14°	64.7	61.7	59.3	57.5	48.6	45.7	44.5	44.5
15°	61.1	58.1	56.4	54.6	45.7	43.9	42.7	43.3
17.5°	52.8	50.4	48.6	46.9	39.7	39.2	39.2	39.7
20°	45.1	42.7	40.9	39.7	34.4	35.0	35.6	36.8
21°	42.1	39.7	38.0	36.8	32.6	33.2	34.4	35.6
22°	39.2	37.4	35.6	34.4	30.8	31.4	33.2	34.4
23°	36.2	34.4	33.2	32.0	29.1	30.3	32.0	33.2
24°	33.8	32.0	30.8	29.7	27.3	28.5	30.8	32.0
25°	31.4	29.7	28.5	27.9	25.5	27.3	29.7	30.8
26°	29.1	27.9	26.7	26.1	24.3	26.1	28.5	30.3
27°	26.7	25.5	24.9	24.3	22.5	24.9	27.3	29.1
28°	24.9	23.7	23.1	22.5	21.4	23.7	26.7	27.9
29°	23.1	21.9	21.4	20.8	20.2	22.5	25.5	27.3
30°	21.4	20.8	19.6	19.6	19.0	21.9	24.3	26.1
31°	19.6	19.0	18.4	17.8	17.8	20.8	23.7	25.5
32°	18.4	17.8	17.2	16.6	17.2	19.6	22.5	24.9
33°	16.6	16.0	16.0	15.4	16.0	19.0	21.9	24.3
34°	14.8	14.8	14.2	14.2	15.4	18.4	21.4	23.1
35°	13.6	13.1	13.1	13.1	14.8	17.2	20.8	22.5
36°	12.5	12.5	11.9	11.9	14.2	16.6	20.2	21.9
37°	11.3	11.3	11.3	10.7	13.1	16.0	19.0	21.4
38°	10.1	10.1	10.1	10.1	12.5	15.4	19.0	21.4
39°	8.9	8.9	9.5	9.5	11.9	14.8	17.8	20.8
40°	8.3	8.3	8.3	8.3	11.3	14.2	17.2	20.2
42.5°	6.5	6.5	7.1	7.1	10.1	13.1	16.0	18.4
45°	5.3	5.3	5.9	5.9	8.9	11.9	14.2	17.2
47.5°	4.2	4.2	4.7	4.7	7.7	10.7	13.1	15.4
50°	3.0	3.6	3.6	4.2	7.1	9.5	11.3	13.6
51°	3.0	3.0	3.6	3.6	6.5	8.9	10.7	13.1
52°	3.0	3.0	3.6	3.6	5.9	8.3	10.1	11.9
53°	2.4	3.0	3.0	3.6	5.9	8.3	9.5	11.3
54°	2.4	2.4	3.0	3.0	5.9	7.7	9.5	10.1
55°	2.4	2.4	3.0	3.0	5.3	7.7	8.9	9.5
57.5°	2.4	2.4	2.4	2.4	4.7	6.5	7.7	7.7
60°	2.4	2.4	2.4	2.4	4.7	5.9	7.1	5.3



TEST NUMBER: P208822

CATALOG NUMBER: LDSQA6A15835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.4	2.4	2.4	2.4	4.2	5.3	5.3	4.2
64°	2.4	2.4	2.4	2.4	4.2	5.3	5.3	4.2
65°	2.4	2.4	2.4	2.4	4.2	4.7	4.7	3.6
66°	2.4	2.4	2.4	2.4	4.2	4.7	4.7	3.6
67.5°	2.4	2.4	2.4	2.4	3.6	4.2	4.2	3.6
70°	2.4	2.4	2.4	2.4	3.6	4.2	3.6	3.0
72.5°	2.4	2.4	2.4	2.4	3.6	3.6	3.0	2.4
75°	2.4	2.4	2.4	2.4	3.0	3.0	2.4	2.4
77.5°	2.4	2.4	2.4	2.4	3.0	3.0	2.4	1.8
80°	2.4	2.4	2.4	2.4	3.0	2.4	1.8	1.2
82.5°	2.4	2.4	2.4	2.4	2.4	1.8	1.2	1.2
85°	2.4	2.4	2.4	2.4	2.4	1.8	1.2	0.6
87.5°	2.4	2.4	2.4	2.4	2.4	1.8	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°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4
62°	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2





61°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.8	1.8
62°	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.8	1.8





61°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4
62°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8





61°	2.4	2.4	2.4	2.4	4.2	5.9	6.5	4.7
62°	2.4	2.4	2.4	2.4	4.2	5.3	5.9	4.2



(END OF REPORT)