

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: P208840

Luminaire Tested: **LDSQA6A30927D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208840
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: LDSQA6A30927D010TE 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1649.3 lumens
Efficiency: N/A
Efficacy: 37.0 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

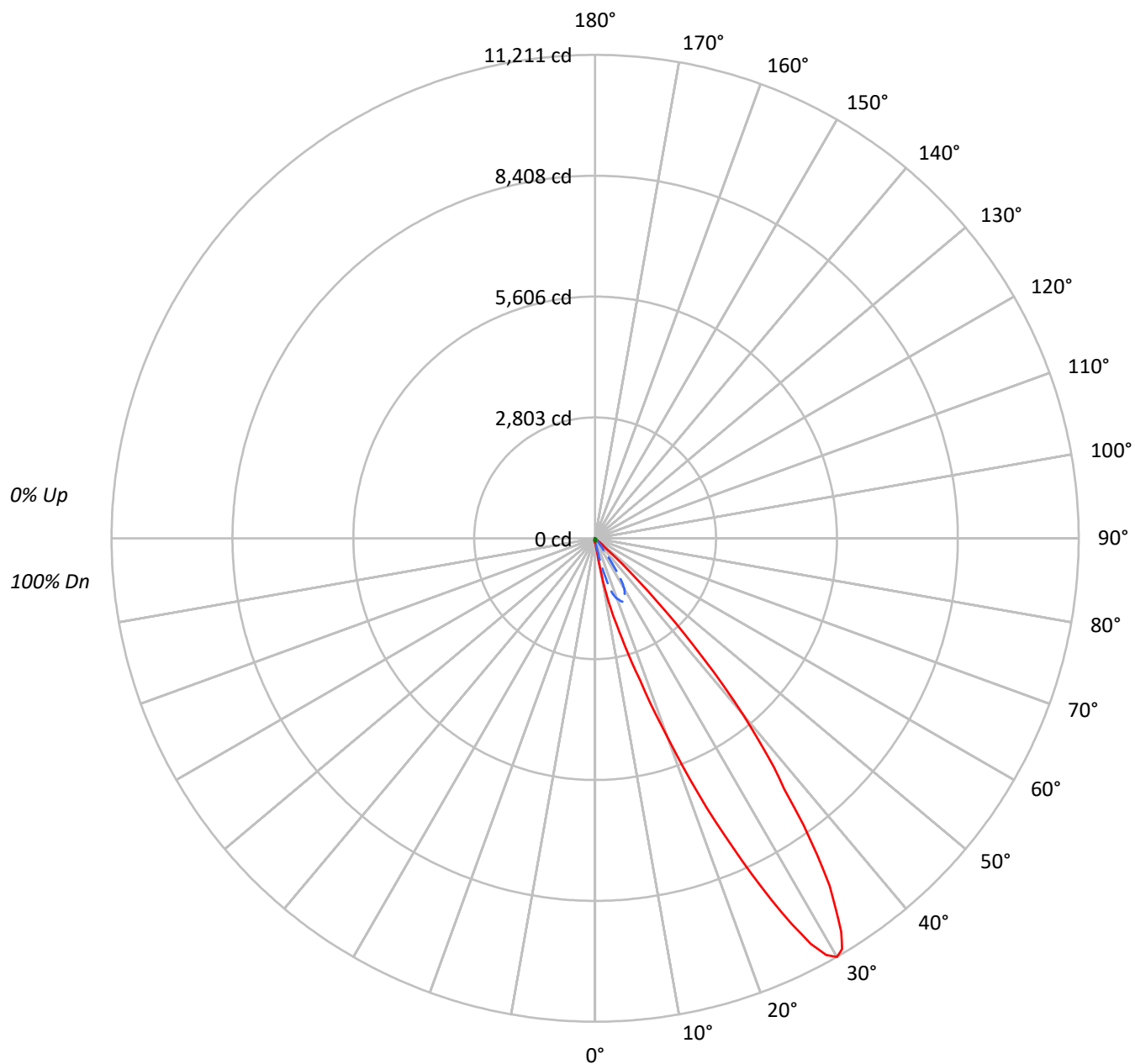
Input Watts (W): 44.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	4654	4654	4654
5°	7179	4408	3540
10°	38500	3917	2938
15°	106150	3169	2514
20°	225415	2373	2195
25°	408025	1724	1910
30°	557380	1268	1690
35°	472468	894	1545
40°	299911	607	1478
45°	103945	469	1364
50°	6363	362	1192
55°	1103	293	931
60°	267	267	603
65°	153	316	469
70°	189	390	491
75°	0	516	516
80°	0	769	372
85°	0	1531	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	0.8
10°-20°	169.6	10.3
20°-30°	589.4	35.7
30°-40°	646.2	39.2
40°-50°	213.1	12.9
50°-60°	8.9	0.5
60°-70°	3.8	0.2
70°-80°	3.0	0.2
80°-90°	2.0	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°	772.5	46.8
0°-40°	1418.6	86.0
0°-60°	1640.6	99.5
0°-90°	1649.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	108	108	108	108	108	
5°	166	135	102	87	82	35
15°	2381	971	71	57	56	791
25°	8589	1592	36	36	40	4020
35°	8989	531	17	22	29	5403
45°	1707	26	8	15	22	1504
55°	15	3	4	10	12	21
65°	2	2	3	6	5	2
75°	0	2	3	4	3	1
85°	0	2	3	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°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	128.2	127.5	127.5	127.5	126.7	125.1	125.1	125.9	125.9	125.1	125.9
5°	166.1	164.5	163.8	163.0	159.9	159.1	156.0	158.4	156.0	153.7	153.7
7.5°	304.3	303.6	290.4	281.9	267.3	250.3	245.6	246.4	235.6	225.6	219.4
10°	880.6	882.1	843.5	859.0	803.3	780.9	738.5	723.0	684.4	651.9	612.5
11°	1178.0	1176.4	1127.8	1142.4	1086.1	1054.4	1006.5	981.8	933.1	900.7	851.2
12°	1499.3	1452.2	1436.0	1449.9	1391.9	1350.2	1292.3	1260.6	1200.4	1167.2	1107.7
13°	1817.6	1803.7	1749.6	1762.7	1703.2	1612.1	1588.1	1550.3	1480.0	1440.6	1374.2
14°	2093.3	2042.3	2025.3	2033.8	1975.1	1888.6	1864.7	1853.1	1744.9	1702.5	1628.3
15°	2381.4	2319.6	2295.7	2264.0	2229.3	2126.5	2091.8	2069.4	1957.4	1886.3	1838.4
17.5°	3428.9	3341.6	3282.9	3211.0	3134.6	2944.6	2865.8	2790.8	2594.6	2500.4	2358.3
20°	4919.7	4786.1	4635.4	4479.4	4329.5	3994.3	3799.6	3591.1	3323.1	3099.0	2929.1
21°	5641.2	5481.3	5299.7	5182.3	4900.4	4491.0	4228.4	3931.0	3586.5	3309.1	3095.2
22°	6397.4	6215.1	6063.7	5890.7	5499.8	5011.6	4681.8	4300.2	3854.5	3512.3	3241.9
23°	7132.0	6925.7	6744.2	6533.3	6081.4	5516.0	5124.4	4669.4	4132.6	3707.0	3372.5
24°	7833.3	7619.4	7410.8	7133.5	6616.0	5991.1	5530.7	5012.4	4397.5	3893.9	3495.3
25°	8588.8	8338.5	8068.9	7647.2	7121.2	6414.4	5884.5	5310.5	4633.1	4066.1	3598.8
26°	9341.2	9049.2	8645.2	8215.7	7586.9	6796.0	6191.9	5552.3	4833.9	4204.4	3675.3
27°	10047.2	9734.3	9260.0	8672.2	8004.8	7122.7	6445.3	5743.9	4973.8	4294.0	3710.8
28°	10651.2	10306.7	9778.4	9108.6	8316.1	7362.9	6612.9	5856.7	5041.0	4328.0	3715.5
29°	11049.0	10705.3	10136.0	9392.1	8492.2	7481.9	6679.3	5881.4	5037.1	4307.9	3683.8
30°	11211.2	10864.4	10282.8	9484.8	8525.5	7484.2	6652.3	5829.6	4969.9	4244.6	3621.2
31°	11116.2	10783.3	10193.2	9389.8	8408.0	7376.1	6538.7	5699.1	4836.3	4132.6	3527.7
32°	10765.5	10460.4	9893.5	9128.7	8166.3	7159.0	6343.3	5506.0	4647.8	3986.6	3411.1
33°	10231.0	9976.9	9397.5	8692.3	7843.4	6892.5	6105.4	5309.8	4420.7	3808.1	3286.7
34°	9718.9	9343.5	8829.8	8203.3	7429.4	6546.5	5810.3	5000.8	4179.7	3611.9	3144.6
35°	8988.9	8652.9	8178.6	7642.6	6947.4	6123.9	5387.8	4699.5	3910.1	3422.7	2995.5
36°	8218.8	7922.9	7578.4	7098.0	6432.9	5682.9	5009.3	4329.5	3632.8	3211.8	2838.0
37°	7278.0	7211.5	6891.0	6490.1	5896.1	5203.2	4569.8	3981.9	3373.3	3017.2	2664.9
38°	6722.6	6504.7	6211.2	5858.2	5275.8	4721.2	4145.7	3632.8	3137.7	2834.9	2468.0
39°	6015.8	5831.9	5561.6	5244.1	4742.8	4219.1	3751.0	3341.6	2943.0	2651.0	2255.5
40°	5336.0	5183.1	4935.1	4662.5	4207.5	3776.5	3410.3	3085.1	2749.9	2454.8	2045.4
42.5°	3364.8	3289.1	3187.1	3150.0	2987.0	2875.0	2741.4	2553.7	2258.6	1926.5	1640.7
45°	1707.1	1658.4	1656.9	1732.6	1784.3	1789.8	1777.4	1729.5	1537.9	1442.9	1188.8
47.5°	287.3	273.4	281.9	332.9	404.8	492.0	589.4	709.1	837.3	810.3	624.1
50°	95.0	91.9	89.6	91.9	88.8	91.1	89.6	87.3	78.8	82.7	85.0
51°	58.7	62.6	60.3	61.8	61.0	63.3	63.3	62.6	57.2	53.3	48.7
52°	40.2	40.9	41.7	42.5	41.7	42.5	43.3	43.3	41.7	40.2	36.3
53°	28.6	28.6	29.4	29.4	29.4	30.1	30.1	30.1	29.4	29.4	28.6
54°	20.1	20.9	20.9	20.9	20.9	21.6	21.6	21.6	22.4	21.6	21.6
55°	14.7	14.7	14.7	14.7	14.7	14.7	15.4	15.4	16.2	16.2	15.4
57.5°	6.2	6.2	5.4	6.2	6.2	6.2	6.2	7.0	7.0	7.7	7.7
60°	3.1	3.1	3.1	3.1	2.3	3.1	3.1	3.1	3.1	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.5	1.5	1.5	1.5	1.5	1.5	0.8	1.5	1.5	1.5	1.5
64°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
66°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	123.6	125.1	122.8	124.4	121.3	121.3	119.0	119.7	119.0	117.4	117.4
5°	149.9	149.9	146.0	146.0	141.4	139.0	135.2	135.2	132.9	129.0	128.2
7.5°	205.5	197.7	189.2	186.2	176.9	170.7	163.8	160.7	153.7	147.5	142.9
10°	550.0	499.0	448.8	417.9	342.2	287.3	246.4	218.6	198.5	174.6	165.3
11°	775.5	710.6	645.0	580.9	506.7	431.8	384.7	310.5	263.4	210.1	184.6
12°	1019.6	943.2	863.6	791.0	702.2	607.9	543.0	448.8	382.4	293.5	231.7
13°	1269.9	1183.4	1088.4	1012.7	912.3	804.1	702.2	614.9	532.2	416.3	326.0
14°	1510.9	1419.0	1314.7	1235.1	1122.4	1004.9	889.9	793.3	692.9	554.6	443.4
15°	1725.6	1660.0	1527.9	1449.1	1327.8	1202.7	1074.5	971.0	852.0	698.3	570.1
17.5°	2175.2	2053.9	1892.5	1814.5	1694.0	1585.8	1446.8	1353.3	1206.6	1044.3	903.0
20°	2705.1	2526.7	2308.1	2143.5	1935.0	1744.9	1569.6	1496.2	1405.1	1294.6	1162.5
21°	2850.3	2658.0	2419.3	2251.7	2037.7	1842.3	1636.0	1519.4	1419.8	1324.0	1213.5
22°	2956.1	2753.0	2501.9	2327.4	2107.2	1913.3	1702.5	1562.7	1429.8	1321.7	1222.0
23°	3045.7	2829.5	2568.4	2378.4	2148.2	1948.1	1736.5	1597.4	1450.6	1316.2	1208.1
24°	3126.8	2889.7	2615.5	2411.6	2169.0	1960.5	1741.1	1603.6	1460.7	1319.3	1189.6
25°	3187.9	2927.6	2642.5	2428.6	2173.7	1956.6	1730.3	1592.0	1449.1	1309.3	1168.7
26°	3229.6	2945.3	2650.3	2427.8	2164.4	1941.1	1707.9	1568.1	1421.3	1273.0	1134.7
27°	3242.7	2940.7	2639.4	2410.0	2141.2	1911.0	1670.0	1522.5	1378.0	1229.7	1089.1
28°	3229.6	2922.2	2614.7	2375.3	2102.6	1861.6	1609.0	1462.2	1331.7	1181.8	1033.5
29°	3193.3	2888.9	2569.1	2323.5	2041.6	1781.3	1531.0	1404.3	1278.4	1109.2	940.1
30°	3136.9	2828.7	2503.5	2247.8	1951.2	1680.1	1460.7	1351.0	1190.3	991.8	809.5
31°	3058.1	2750.7	2418.5	2147.4	1830.7	1581.2	1399.7	1251.4	1052.8	836.6	650.4
32°	2962.3	2658.0	2294.9	2013.8	1711.7	1503.2	1291.5	1099.2	879.0	652.7	474.3
33°	2859.6	2539.0	2153.6	1873.2	1609.8	1398.9	1135.5	911.5	684.4	458.8	298.9
34°	2740.6	2393.0	1995.2	1731.8	1495.4	1242.1	950.1	708.3	488.2	278.9	153.7
35°	2597.0	2213.0	1837.6	1609.8	1331.7	1034.3	747.0	530.7	305.9	140.6	83.4
36°	2423.2	2027.7	1700.9	1453.0	1140.1	830.4	539.2	338.3	164.5	82.7	65.7
37°	2202.2	1875.5	1557.2	1266.0	933.1	623.4	347.6	183.8	94.2	67.2	55.6
38°	2011.4	1734.9	1403.5	1062.1	719.1	427.2	210.9	103.5	74.2	56.4	46.3
39°	1846.9	1584.3	1201.9	847.4	512.9	258.8	115.9	78.8	61.8	46.3	39.4
40°	1703.2	1369.5	988.7	635.7	329.8	143.7	83.4	65.7	50.2	38.6	31.7
42.5°	1249.8	869.0	458.1	205.5	96.6	71.8	52.5	41.7	32.4	23.9	20.1
45°	742.3	390.9	138.3	84.2	61.0	45.6	33.2	26.3	20.1	14.7	12.4
47.5°	271.1	98.9	68.0	51.0	38.6	28.6	20.9	16.2	12.4	8.5	7.0
50°	55.6	47.9	37.1	30.1	22.4	17.0	12.4	9.3	7.0	5.4	4.6
51°	42.5	37.1	30.1	23.9	17.8	13.9	10.0	7.7	6.2	4.6	3.9
52°	32.4	28.6	23.2	19.3	14.7	10.8	7.7	6.2	4.6	3.1	3.1
53°	25.5	22.4	17.8	14.7	11.6	8.5	6.2	4.6	3.9	3.1	3.1
54°	19.3	17.0	13.9	11.6	9.3	7.0	4.6	3.9	3.1	3.1	2.3
55°	13.9	13.1	10.8	8.5	7.0	5.4	3.9	3.1	3.1	2.3	2.3
57.5°	7.0	6.2	5.4	4.6	3.9	3.1	2.3	2.3	2.3	2.3	1.5
60°	3.9	3.1	3.1	3.1	2.3	2.3	2.3	1.5	1.5	2.3	2.3



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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°	1.5	1.5	1.5	1.5	2.3	1.5	1.5	1.5	2.3	2.3	2.3
64°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
65°	0.8	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
66°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
75°	0.8	0.8	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
77.5°	0.8	0.8	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
80°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
82.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
85°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
87.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	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: P208840

CATALOG NUMBER: LDSQA6A30927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	115.1	116.6	115.1	113.5	112.8	112.8	112.0	109.7	110.5	109.7	109.7
5°	124.4	125.1	122.0	119.7	118.2	116.6	115.1	112.0	111.2	110.5	109.7
7.5°	136.7	135.9	129.8	125.9	122.0	119.0	115.9	112.0	110.5	108.1	106.6
10°	154.5	149.1	139.0	132.1	126.7	120.5	115.9	109.7	106.6	103.5	101.2
11°	162.2	154.5	144.4	135.2	128.2	121.3	115.9	108.1	104.3	101.2	98.1
12°	186.2	165.3	149.1	139.0	129.8	122.0	115.1	107.4	102.7	98.1	95.0
13°	241.0	192.3	159.1	141.4	132.1	122.8	114.3	105.8	100.4	95.0	91.9
14°	330.6	247.2	183.8	149.9	132.9	122.8	113.5	104.3	98.1	92.7	88.8
15°	438.0	332.2	234.1	170.7	135.9	122.0	112.0	102.0	95.0	88.8	85.0
17.5°	737.7	599.4	449.6	319.8	197.7	133.6	105.8	94.2	85.7	78.8	74.2
20°	988.7	829.6	660.4	499.0	342.2	213.2	122.0	85.7	75.7	68.0	63.3
21°	1043.6	894.5	715.3	546.1	383.9	247.2	138.3	85.7	71.8	64.1	59.5
22°	1072.2	928.5	749.3	577.0	412.5	271.1	155.3	86.5	68.0	60.3	54.8
23°	1067.5	936.2	762.4	586.3	425.6	282.7	162.2	87.3	64.1	56.4	51.0
24°	1039.7	915.3	749.3	575.5	421.8	279.6	159.9	85.7	60.3	52.5	47.9
25°	1004.9	874.4	713.7	546.1	397.0	260.3	148.3	80.3	57.2	49.4	44.8
26°	965.6	833.5	664.3	494.4	356.9	227.9	125.1	71.1	52.5	45.6	41.7
27°	918.4	780.2	603.3	439.5	301.3	183.8	100.4	60.3	48.7	41.7	38.6
28°	848.1	704.5	525.3	366.9	241.0	139.0	75.7	51.8	44.8	38.6	35.5
29°	743.1	597.9	427.9	286.6	176.9	95.8	57.9	46.3	40.2	34.8	32.4
30°	611.8	472.7	317.5	197.0	113.5	64.9	47.1	40.9	35.5	31.7	30.1
31°	463.5	336.0	205.5	113.5	68.0	47.9	41.7	35.5	31.7	28.6	27.8
32°	305.9	203.2	108.9	65.7	49.4	41.7	36.3	31.7	28.6	26.3	25.5
33°	163.8	93.5	62.6	49.4	41.7	36.3	31.7	27.8	25.5	23.9	23.2
34°	83.4	61.0	51.0	42.5	35.5	31.7	27.8	24.7	23.2	21.6	20.9
35°	61.8	52.5	44.0	36.3	30.9	27.8	24.7	22.4	20.9	19.3	19.3
36°	52.5	44.0	36.3	31.7	27.8	24.7	22.4	19.3	18.5	17.8	17.0
37°	44.0	37.8	31.7	27.0	23.9	21.6	19.3	17.8	16.2	15.4	15.4
38°	37.1	32.4	27.0	23.2	20.9	19.3	17.0	15.4	14.7	13.9	13.9
39°	30.9	27.0	23.2	20.1	17.8	16.2	14.7	13.9	13.1	12.4	12.4
40°	25.5	23.2	19.3	17.0	15.4	13.9	13.1	12.4	11.6	10.8	11.6
42.5°	16.2	13.9	12.4	11.6	10.0	10.0	9.3	8.5	8.5	8.5	8.5
45°	9.3	8.5	7.7	7.7	7.0	7.0	7.0	6.2	7.0	7.0	7.0
47.5°	5.4	5.4	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.4	5.4
50°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.9	3.9
51°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.9
52°	3.1	3.1	3.1	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1
53°	2.3	3.1	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1
54°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1
57.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1



TEST NUMBER: P208840

CATALOG NUMBER: LDSQA6A30927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.3	2.3	2.3	2.3	2.3	3.1	2.3	2.3	2.3	3.1	3.1
64°	2.3	2.3	2.3	2.3	2.3	3.1	2.3	2.3	2.3	2.3	3.1
65°	2.3	2.3	3.1	3.1	3.1	3.1	2.3	2.3	2.3	2.3	3.1
66°	2.3	2.3	3.1	3.1	3.1	3.1	3.1	2.3	2.3	3.1	3.1
67.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	2.3	3.1	3.1	3.1
70°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
87.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P208840

CATALOG NUMBER: LDSQA6A30927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	107.4	106.6	105.8	105.8	99.6	96.6	92.7	92.7
5°	105.8	105.1	103.5	102.0	91.9	87.3	82.7	81.9
7.5°	102.7	100.4	98.1	96.6	84.2	78.8	74.2	73.4
10°	96.6	93.5	91.1	89.6	76.5	71.1	67.2	67.2
11°	93.5	90.4	88.1	85.7	72.6	68.0	64.9	64.9
12°	90.4	87.3	84.2	82.7	69.5	65.7	62.6	61.8
13°	87.3	83.4	81.1	78.8	66.4	62.6	60.3	60.3
14°	84.2	80.3	77.2	74.9	63.3	59.5	57.9	57.9
15°	79.6	75.7	73.4	71.1	59.5	57.2	55.6	56.4
17.5°	68.7	65.7	63.3	61.0	51.8	51.0	51.0	51.8
20°	58.7	55.6	53.3	51.8	44.8	45.6	46.3	47.9
21°	54.8	51.8	49.4	47.9	42.5	43.3	44.8	46.3
22°	51.0	48.7	46.3	44.8	40.2	40.9	43.3	44.8
23°	47.1	44.8	43.3	41.7	37.8	39.4	41.7	43.3
24°	44.0	41.7	40.2	38.6	35.5	37.1	40.2	41.7
25°	40.9	38.6	37.1	36.3	33.2	35.5	38.6	40.2
26°	37.8	36.3	34.8	34.0	31.7	34.0	37.1	39.4
27°	34.8	33.2	32.4	31.7	29.4	32.4	35.5	37.8
28°	32.4	30.9	30.1	29.4	27.8	30.9	34.8	36.3
29°	30.1	28.6	27.8	27.0	26.3	29.4	33.2	35.5
30°	27.8	27.0	25.5	25.5	24.7	28.6	31.7	34.0
31°	25.5	24.7	23.9	23.2	23.2	27.0	30.9	33.2
32°	23.9	23.2	22.4	21.6	22.4	25.5	29.4	32.4
33°	21.6	20.9	20.9	20.1	20.9	24.7	28.6	31.7
34°	19.3	19.3	18.5	18.5	20.1	23.9	27.8	30.1
35°	17.8	17.0	17.0	17.0	19.3	22.4	27.0	29.4
36°	16.2	16.2	15.4	15.4	18.5	21.6	26.3	28.6
37°	14.7	14.7	14.7	13.9	17.0	20.9	24.7	27.8
38°	13.1	13.1	13.1	13.1	16.2	20.1	24.7	27.8
39°	11.6	11.6	12.4	12.4	15.4	19.3	23.2	27.0
40°	10.8	10.8	10.8	10.8	14.7	18.5	22.4	26.3
42.5°	8.5	8.5	9.3	9.3	13.1	17.0	20.9	23.9
45°	7.0	7.0	7.7	7.7	11.6	15.4	18.5	22.4
47.5°	5.4	5.4	6.2	6.2	10.0	13.9	17.0	20.1
50°	3.9	4.6	4.6	5.4	9.3	12.4	14.7	17.8
51°	3.9	3.9	4.6	4.6	8.5	11.6	13.9	17.0
52°	3.9	3.9	4.6	4.6	7.7	10.8	13.1	15.4
53°	3.1	3.9	3.9	4.6	7.7	10.8	12.4	14.7
54°	3.1	3.1	3.9	3.9	7.7	10.0	12.4	13.1
55°	3.1	3.1	3.9	3.9	7.0	10.0	11.6	12.4
57.5°	3.1	3.1	3.1	3.1	6.2	8.5	10.0	10.0
60°	3.1	3.1	3.1	3.1	6.2	7.7	9.3	7.0



TEST NUMBER: P208840

CATALOG NUMBER: LDSQA6A30927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	3.1	3.1	3.1	3.1	5.4	7.0	7.0	5.4
64°	3.1	3.1	3.1	3.1	5.4	7.0	7.0	5.4
65°	3.1	3.1	3.1	3.1	5.4	6.2	6.2	4.6
66°	3.1	3.1	3.1	3.1	5.4	6.2	6.2	4.6
67.5°	3.1	3.1	3.1	3.1	4.6	5.4	5.4	4.6
70°	3.1	3.1	3.1	3.1	4.6	5.4	4.6	3.9
72.5°	3.1	3.1	3.1	3.1	4.6	4.6	3.9	3.1
75°	3.1	3.1	3.1	3.1	3.9	3.9	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.9	3.9	3.1	2.3
80°	3.1	3.1	3.1	3.1	3.9	3.1	2.3	1.5
82.5°	3.1	3.1	3.1	3.1	3.1	2.3	1.5	1.5
85°	3.1	3.1	3.1	3.1	3.1	2.3	1.5	0.8
87.5°	3.1	3.1	3.1	3.1	3.1	2.3	0.8	0.8
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°	3.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1
62°	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5





61°	3.1	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	2.3	2.3
62°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	2.3	2.3





61°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1
62°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3





61°	3.1	3.1	3.1	3.1	5.4	7.7	8.5	6.2
62°	3.1	3.1	3.1	3.1	5.4	7.0	7.7	5.4



(END OF REPORT)