

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: P208812

Luminaire Tested: **LDSQA6A10827D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208812
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: LDSQA6A10827D010TE 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: 815.0 lumens
Efficiency: N/A
Efficacy: 59.4 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

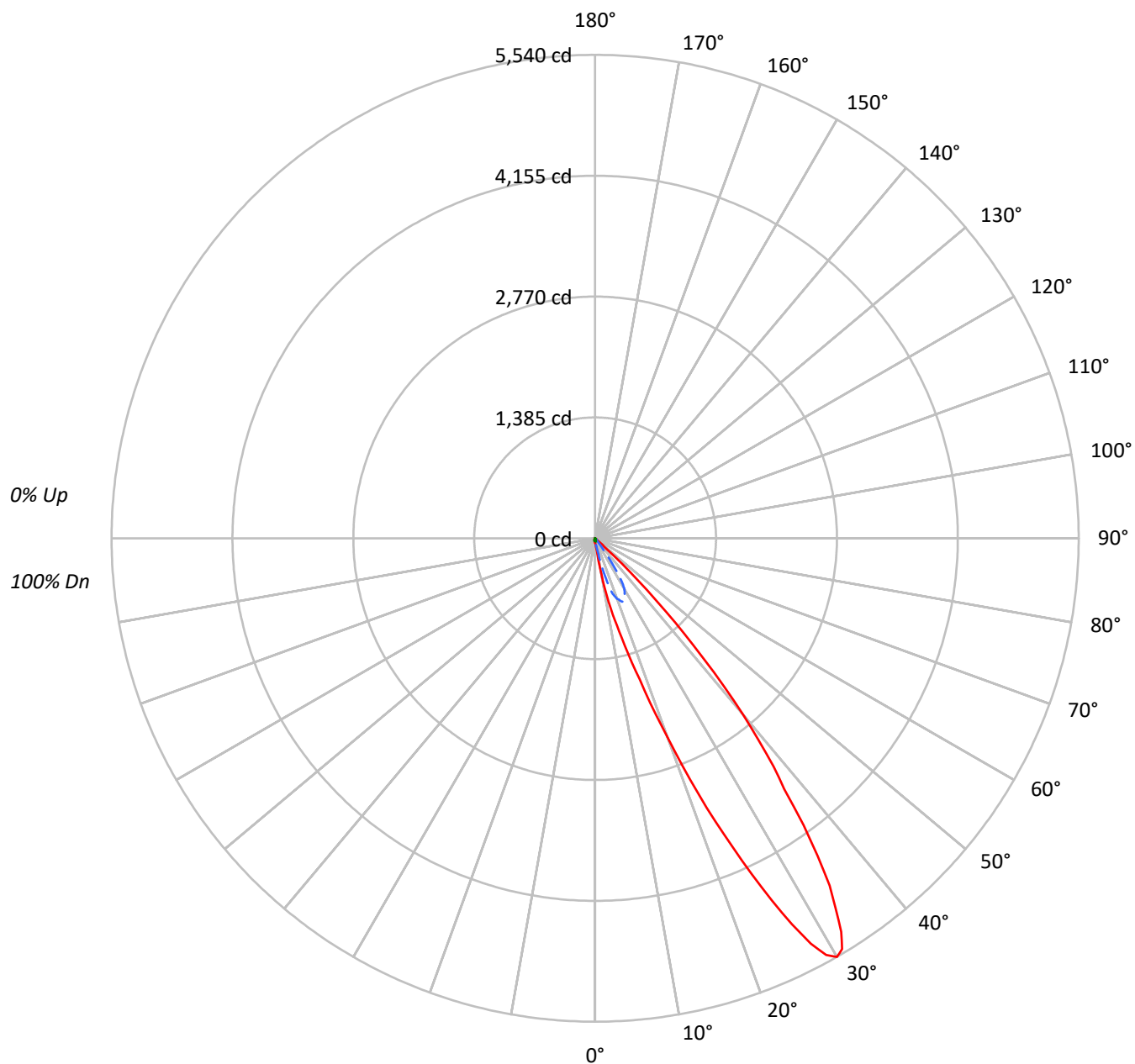
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	2299	2299	2299
5°	3548	2178	1750
10°	19023	1937	1451
15°	52455	1565	1244
20°	111386	1173	1086
25°	201623	850	941
30°	275429	626	835
35°	233467	442	762
40°	148202	298	731
45°	51367	231	676
50°	3141	181	589
55°	548	143	458
60°	129	129	293
65°	82	153	234
70°	101	189	239
75°	0	250	250
80°	0	372	198
85°	0	741	198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.8
10°-20°	83.8	10.3
20°-30°	291.3	35.7
30°-40°	319.3	39.2
40°-50°	105.3	12.9
50°-60°	4.4	0.5
60°-70°	1.9	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°	381.7	46.8
0°-40°	701.0	86.0
0°-60°	810.7	99.5
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	82	67	50	43	40	17
15°	1177	480	35	28	28	391
25°	4244	787	18	18	20	1986
35°	4442	262	8	11	14	2670
45°	844	13	4	8	11	743
55°	7	2	2	5	6	10
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: P208812

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	63.4	63.0	63.0	63.0	62.6	61.8	61.8	62.2	62.2	61.8	62.2
5°	82.1	81.3	80.9	80.5	79.0	78.6	77.1	78.2	77.1	76.0	76.0
7.5°	150.4	150.0	143.5	139.3	132.1	123.7	121.4	121.8	116.4	111.5	108.4
10°	435.1	435.9	416.8	424.4	397.0	385.9	364.9	357.3	338.2	322.2	302.7
11°	582.1	581.3	557.3	564.5	536.7	521.0	497.4	485.1	461.1	445.1	420.6
12°	740.9	717.6	709.6	716.4	687.8	667.2	638.6	622.9	593.2	576.7	547.4
13°	898.1	891.3	864.5	871.0	841.6	796.6	784.8	766.1	731.3	711.9	679.0
14°	1034.4	1009.2	1000.8	1005.0	976.0	933.3	921.4	915.7	862.3	841.3	804.6
15°	1176.8	1146.2	1134.4	1118.8	1101.6	1050.8	1033.6	1022.6	967.2	932.1	908.4
17.5°	1694.4	1651.2	1622.2	1586.7	1548.9	1455.0	1416.1	1379.1	1282.1	1235.6	1165.3
20°	2431.0	2365.0	2290.6	2213.5	2139.4	1973.8	1877.6	1774.5	1642.1	1531.4	1447.4
21°	2787.5	2708.5	2618.8	2560.8	2421.5	2219.2	2089.4	1942.5	1772.2	1635.2	1529.5
22°	3161.2	3071.2	2996.3	2910.8	2717.7	2476.5	2313.5	2124.9	1904.7	1735.6	1602.0
23°	3524.2	3422.3	3332.6	3228.4	3005.1	2725.7	2532.2	2307.4	2042.1	1831.8	1666.5
24°	3870.8	3765.1	3662.0	3525.0	3269.3	2960.5	2733.0	2476.8	2173.0	1924.1	1727.2
25°	4244.1	4120.4	3987.2	3778.8	3518.9	3169.6	2907.8	2624.2	2289.4	2009.3	1778.3
26°	4615.9	4471.6	4272.0	4059.8	3749.0	3358.2	3059.7	2743.7	2388.7	2077.6	1816.1
27°	4964.8	4810.2	4575.8	4285.3	3955.5	3519.6	3184.9	2838.3	2457.8	2121.9	1833.7
28°	5263.3	5093.0	4831.9	4501.0	4109.4	3638.4	3267.7	2894.0	2491.0	2138.7	1836.0
29°	5459.8	5290.0	5008.7	4641.1	4196.4	3697.1	3300.6	2906.3	2489.1	2128.7	1820.3
30°	5540.0	5368.6	5081.2	4686.9	4212.8	3698.3	3287.2	2880.7	2455.9	2097.4	1789.4
31°	5493.0	5328.5	5036.9	4639.9	4154.8	3644.8	3231.1	2816.2	2389.8	2042.1	1743.2
32°	5319.7	5169.0	4888.8	4510.9	4035.3	3537.6	3134.5	2720.8	2296.7	1969.9	1685.6
33°	5055.6	4930.0	4643.8	4295.3	3875.8	3405.9	3017.0	2623.8	2184.5	1881.8	1624.1
34°	4802.5	4617.0	4363.2	4053.6	3671.2	3234.9	2871.1	2471.1	2065.4	1784.8	1553.9
35°	4441.8	4275.8	4041.4	3776.5	3433.0	3026.1	2662.4	2322.3	1932.2	1691.3	1480.2
36°	4061.3	3915.1	3744.9	3507.4	3178.8	2808.2	2475.3	2139.4	1795.1	1587.1	1402.4
37°	3596.4	3563.5	3405.1	3207.0	2913.5	2571.1	2258.1	1967.7	1666.9	1490.9	1316.9
38°	3321.9	3214.3	3069.2	2894.8	2607.0	2332.9	2048.6	1795.1	1550.5	1400.8	1219.5
39°	2972.7	2881.8	2748.2	2591.4	2343.6	2084.8	1853.5	1651.2	1454.3	1310.0	1114.6
40°	2636.8	2561.2	2438.7	2303.9	2079.1	1866.1	1685.2	1524.5	1358.8	1213.0	1010.7
42.5°	1662.7	1625.3	1574.9	1556.6	1476.0	1420.7	1354.7	1261.9	1116.1	952.0	810.7
45°	843.6	819.5	818.7	856.2	881.7	884.4	878.3	854.6	760.0	713.0	587.4
47.5°	142.0	135.1	139.3	164.5	200.0	243.1	291.2	350.4	413.8	400.4	308.4
50°	46.9	45.4	44.3	45.4	43.9	45.0	44.3	43.1	38.9	40.8	42.0
51°	29.0	30.9	29.8	30.5	30.2	31.3	31.3	30.9	28.2	26.3	24.0
52°	19.8	20.2	20.6	21.0	20.6	21.0	21.4	21.4	20.6	19.8	17.9
53°	14.1	14.1	14.5	14.5	14.5	14.9	14.9	14.9	14.5	14.5	14.1
54°	9.9	10.3	10.3	10.3	10.3	10.7	10.7	10.7	11.1	10.7	10.7
55°	7.3	7.3	7.3	7.3	7.3	7.3	7.6	7.6	8.0	8.0	7.6
57.5°	3.1	3.1	2.7	3.1	3.1	3.1	3.1	3.4	3.4	3.8	3.8
60°	1.5	1.5	1.5	1.5	1.1	1.5	1.5	1.5	1.5	1.9	1.9



TEST NUMBER: P208812

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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.8	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°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	61.1	61.8	60.7	61.5	59.9	59.9	58.8	59.2	58.8	58.0	58.0
5°	74.0	74.0	72.1	72.1	69.9	68.7	66.8	66.8	65.7	63.7	63.4
7.5°	101.5	97.7	93.5	92.0	87.4	84.4	80.9	79.4	76.0	72.9	70.6
10°	271.8	246.6	221.8	206.5	169.1	142.0	121.8	108.0	98.1	86.3	81.7
11°	383.2	351.2	318.7	287.0	250.4	213.4	190.1	153.4	130.2	103.8	91.2
12°	503.8	466.1	426.7	390.9	347.0	300.4	268.3	221.8	188.9	145.0	114.5
13°	627.5	584.8	537.8	500.4	450.8	397.3	347.0	303.8	263.0	205.7	161.1
14°	746.6	701.2	649.7	610.3	554.6	496.6	439.7	392.0	342.4	274.1	219.1
15°	852.7	820.3	755.0	716.1	656.1	594.3	530.9	479.8	421.0	345.1	281.7
17.5°	1074.9	1014.9	935.2	896.6	837.1	783.6	714.9	668.7	596.2	516.1	446.2
20°	1336.7	1248.5	1140.5	1059.2	956.2	862.3	775.6	739.4	694.3	639.7	574.5
21°	1408.5	1313.4	1195.5	1112.7	1006.9	910.4	808.4	750.8	701.6	654.2	599.6
22°	1460.8	1360.4	1236.3	1150.1	1041.3	945.5	841.3	772.2	706.5	653.1	603.8
23°	1505.0	1398.2	1269.1	1175.3	1061.5	962.6	858.1	789.4	716.8	650.4	597.0
24°	1545.1	1427.9	1292.4	1191.7	1071.8	968.8	860.4	792.4	721.8	651.9	587.8
25°	1575.3	1446.6	1305.8	1200.1	1074.1	966.8	855.0	786.7	716.1	647.0	577.5
26°	1595.9	1455.4	1309.6	1199.7	1069.5	959.2	843.9	774.8	702.3	629.0	560.7
27°	1602.4	1453.1	1304.3	1190.9	1058.1	944.3	825.2	752.3	681.0	607.7	538.2
28°	1595.9	1444.0	1292.1	1173.7	1039.0	919.9	795.1	722.6	658.0	584.0	510.7
29°	1577.9	1427.6	1269.5	1148.2	1008.8	880.2	756.5	693.9	631.7	548.1	464.5
30°	1550.1	1397.8	1237.1	1110.7	964.2	830.2	721.8	667.6	588.2	490.1	400.0
31°	1511.1	1359.2	1195.1	1061.1	904.6	781.3	691.6	618.4	520.3	413.4	321.4
32°	1463.8	1313.4	1134.0	995.1	845.8	742.8	638.2	543.2	434.4	322.5	234.4
33°	1413.1	1254.6	1064.2	925.6	795.5	691.3	561.1	450.4	338.2	226.7	147.7
34°	1354.3	1182.5	985.9	855.8	739.0	613.8	469.5	350.0	241.2	137.8	76.0
35°	1283.3	1093.6	908.1	795.5	658.0	511.1	369.1	262.2	151.2	69.5	41.2
36°	1197.4	1002.0	840.5	718.0	563.4	410.3	266.4	167.2	81.3	40.8	32.4
37°	1088.2	926.8	769.5	625.6	461.1	308.0	171.8	90.8	46.6	33.2	27.5
38°	993.9	857.3	693.5	524.8	355.4	211.1	104.2	51.1	36.6	27.9	22.9
39°	912.6	782.9	593.9	418.7	253.4	127.9	57.3	38.9	30.5	22.9	19.5
40°	841.6	676.8	488.6	314.1	163.0	71.0	41.2	32.4	24.8	19.1	15.6
42.5°	617.6	429.4	226.3	101.5	47.7	35.5	26.0	20.6	16.0	11.8	9.9
45°	366.8	193.1	68.3	41.6	30.2	22.5	16.4	13.0	9.9	7.3	6.1
47.5°	134.0	48.9	33.6	25.2	19.1	14.1	10.3	8.0	6.1	4.2	3.4
50°	27.5	23.7	18.3	14.9	11.1	8.4	6.1	4.6	3.4	2.7	2.3
51°	21.0	18.3	14.9	11.8	8.8	6.9	5.0	3.8	3.1	2.3	1.9
52°	16.0	14.1	11.5	9.5	7.3	5.3	3.8	3.1	2.3	1.5	1.5
53°	12.6	11.1	8.8	7.3	5.7	4.2	3.1	2.3	1.9	1.5	1.5
54°	9.5	8.4	6.9	5.7	4.6	3.4	2.3	1.9	1.5	1.5	1.1
55°	6.9	6.5	5.3	4.2	3.4	2.7	1.9	1.5	1.5	1.1	1.1
57.5°	3.4	3.1	2.7	2.3	1.9	1.5	1.1	1.1	1.1	1.1	0.8
60°	1.9	1.5	1.5	1.5	1.1	1.1	1.1	0.8	0.8	1.1	1.1



TEST NUMBER: P208812

CATALOG NUMBER: LDSQA6A10827D010TE 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	1.1	0.8	0.8	0.8	1.1	1.1	1.1
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
65°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
75°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
77.5°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
80°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
82.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
85°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
87.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
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: P208812

CATALOG NUMBER: LDSQA6A10827D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	56.9	57.6	56.9	56.1	55.7	55.7	55.3	54.2	54.6	54.2	54.2
5°	61.5	61.8	60.3	59.2	58.4	57.6	56.9	55.3	55.0	54.6	54.2
7.5°	67.6	67.2	64.1	62.2	60.3	58.8	57.3	55.3	54.6	53.4	52.7
10°	76.3	73.7	68.7	65.3	62.6	59.5	57.3	54.2	52.7	51.1	50.0
11°	80.2	76.3	71.4	66.8	63.4	59.9	57.3	53.4	51.5	50.0	48.5
12°	92.0	81.7	73.7	68.7	64.1	60.3	56.9	53.1	50.8	48.5	46.9
13°	119.1	95.0	78.6	69.9	65.3	60.7	56.5	52.3	49.6	46.9	45.4
14°	163.4	122.1	90.8	74.0	65.7	60.7	56.1	51.5	48.5	45.8	43.9
15°	216.4	164.1	115.7	84.4	67.2	60.3	55.3	50.4	46.9	43.9	42.0
17.5°	364.5	296.2	222.1	158.0	97.7	66.0	52.3	46.6	42.4	38.9	36.6
20°	488.6	409.9	326.4	246.6	169.1	105.3	60.3	42.4	37.4	33.6	31.3
21°	515.7	442.0	353.5	269.9	189.7	122.1	68.3	42.4	35.5	31.7	29.4
22°	529.8	458.8	370.2	285.1	203.8	134.0	76.7	42.8	33.6	29.8	27.1
23°	527.5	462.6	376.7	289.7	210.3	139.7	80.2	43.1	31.7	27.9	25.2
24°	513.8	452.3	370.2	284.4	208.4	138.2	79.0	42.4	29.8	26.0	23.7
25°	496.6	432.1	352.7	269.9	196.2	128.6	73.3	39.7	28.2	24.4	22.1
26°	477.1	411.9	328.3	244.3	176.3	112.6	61.8	35.1	26.0	22.5	20.6
27°	453.8	385.5	298.1	217.2	148.9	90.8	49.6	29.8	24.0	20.6	19.1
28°	419.1	348.1	259.6	181.3	119.1	68.7	37.4	25.6	22.1	19.1	17.6
29°	367.2	295.4	211.5	141.6	87.4	47.3	28.6	22.9	19.8	17.2	16.0
30°	302.3	233.6	156.9	97.3	56.1	32.1	23.3	20.2	17.6	15.6	14.9
31°	229.0	166.0	101.5	56.1	33.6	23.7	20.6	17.6	15.6	14.1	13.7
32°	151.2	100.4	53.8	32.4	24.4	20.6	17.9	15.6	14.1	13.0	12.6
33°	80.9	46.2	30.9	24.4	20.6	17.9	15.6	13.7	12.6	11.8	11.5
34°	41.2	30.2	25.2	21.0	17.6	15.6	13.7	12.2	11.5	10.7	10.3
35°	30.5	26.0	21.8	17.9	15.3	13.7	12.2	11.1	10.3	9.5	9.5
36°	26.0	21.8	17.9	15.6	13.7	12.2	11.1	9.5	9.2	8.8	8.4
37°	21.8	18.7	15.6	13.4	11.8	10.7	9.5	8.8	8.0	7.6	7.6
38°	18.3	16.0	13.4	11.5	10.3	9.5	8.4	7.6	7.3	6.9	6.9
39°	15.3	13.4	11.5	9.9	8.8	8.0	7.3	6.9	6.5	6.1	6.1
40°	12.6	11.5	9.5	8.4	7.6	6.9	6.5	6.1	5.7	5.3	5.7
42.5°	8.0	6.9	6.1	5.7	5.0	5.0	4.6	4.2	4.2	4.2	4.2
45°	4.6	4.2	3.8	3.8	3.4	3.4	3.4	3.1	3.4	3.4	3.4
47.5°	2.7	2.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.7	2.7
50°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9
51°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
52°	1.5	1.5	1.5	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5
53°	1.1	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5
54°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5
57.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5



TEST NUMBER: P208812

CATALOG NUMBER: LDSQA6A10827D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.1	1.1	1.1	1.1	1.1	1.5	1.1	1.1	1.1	1.5	1.5
64°	1.1	1.1	1.1	1.1	1.1	1.5	1.1	1.1	1.1	1.1	1.5
65°	1.1	1.1	1.5	1.5	1.5	1.5	1.1	1.1	1.1	1.1	1.5
66°	1.1	1.1	1.5	1.5	1.5	1.5	1.5	1.1	1.1	1.5	1.5
67.5°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.1	1.5	1.5	1.5
70°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P208812

CATALOG NUMBER: LDSQA6A10827D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	53.1	52.7	52.3	52.3	49.2	47.7	45.8	45.8
5°	52.3	51.9	51.1	50.4	45.4	43.1	40.8	40.5
7.5°	50.8	49.6	48.5	47.7	41.6	38.9	36.6	36.3
10°	47.7	46.2	45.0	44.3	37.8	35.1	33.2	33.2
11°	46.2	44.7	43.5	42.4	35.9	33.6	32.1	32.1
12°	44.7	43.1	41.6	40.8	34.4	32.4	30.9	30.5
13°	43.1	41.2	40.1	38.9	32.8	30.9	29.8	29.8
14°	41.6	39.7	38.2	37.0	31.3	29.4	28.6	28.6
15°	39.3	37.4	36.3	35.1	29.4	28.2	27.5	27.9
17.5°	34.0	32.4	31.3	30.2	25.6	25.2	25.2	25.6
20°	29.0	27.5	26.3	25.6	22.1	22.5	22.9	23.7
21°	27.1	25.6	24.4	23.7	21.0	21.4	22.1	22.9
22°	25.2	24.0	22.9	22.1	19.8	20.2	21.4	22.1
23°	23.3	22.1	21.4	20.6	18.7	19.5	20.6	21.4
24°	21.8	20.6	19.8	19.1	17.6	18.3	19.8	20.6
25°	20.2	19.1	18.3	17.9	16.4	17.6	19.1	19.8
26°	18.7	17.9	17.2	16.8	15.6	16.8	18.3	19.5
27°	17.2	16.4	16.0	15.6	14.5	16.0	17.6	18.7
28°	16.0	15.3	14.9	14.5	13.7	15.3	17.2	17.9
29°	14.9	14.1	13.7	13.4	13.0	14.5	16.4	17.6
30°	13.7	13.4	12.6	12.6	12.2	14.1	15.6	16.8
31°	12.6	12.2	11.8	11.5	11.5	13.4	15.3	16.4
32°	11.8	11.5	11.1	10.7	11.1	12.6	14.5	16.0
33°	10.7	10.3	10.3	9.9	10.3	12.2	14.1	15.6
34°	9.5	9.5	9.2	9.2	9.9	11.8	13.7	14.9
35°	8.8	8.4	8.4	8.4	9.5	11.1	13.4	14.5
36°	8.0	8.0	7.6	7.6	9.2	10.7	13.0	14.1
37°	7.3	7.3	7.3	6.9	8.4	10.3	12.2	13.7
38°	6.5	6.5	6.5	6.5	8.0	9.9	12.2	13.7
39°	5.7	5.7	6.1	6.1	7.6	9.5	11.5	13.4
40°	5.3	5.3	5.3	5.3	7.3	9.2	11.1	13.0
42.5°	4.2	4.2	4.6	4.6	6.5	8.4	10.3	11.8
45°	3.4	3.4	3.8	3.8	5.7	7.6	9.2	11.1
47.5°	2.7	2.7	3.1	3.1	5.0	6.9	8.4	9.9
50°	1.9	2.3	2.3	2.7	4.6	6.1	7.3	8.8
51°	1.9	1.9	2.3	2.3	4.2	5.7	6.9	8.4
52°	1.9	1.9	2.3	2.3	3.8	5.3	6.5	7.6
53°	1.5	1.9	1.9	2.3	3.8	5.3	6.1	7.3
54°	1.5	1.5	1.9	1.9	3.8	5.0	6.1	6.5
55°	1.5	1.5	1.9	1.9	3.4	5.0	5.7	6.1
57.5°	1.5	1.5	1.5	1.5	3.1	4.2	5.0	5.0
60°	1.5	1.5	1.5	1.5	3.1	3.8	4.6	3.4



TEST NUMBER: P208812

CATALOG NUMBER: LDSQA6A10827D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.5	1.5	1.5	1.5	2.7	3.4	3.4	2.7
64°	1.5	1.5	1.5	1.5	2.7	3.4	3.4	2.7
65°	1.5	1.5	1.5	1.5	2.7	3.1	3.1	2.3
66°	1.5	1.5	1.5	1.5	2.7	3.1	3.1	2.3
67.5°	1.5	1.5	1.5	1.5	2.3	2.7	2.7	2.3
70°	1.5	1.5	1.5	1.5	2.3	2.7	2.3	1.9
72.5°	1.5	1.5	1.5	1.5	2.3	2.3	1.9	1.5
75°	1.5	1.5	1.5	1.5	1.9	1.9	1.5	1.5
77.5°	1.5	1.5	1.5	1.5	1.9	1.9	1.5	1.1
80°	1.5	1.5	1.5	1.5	1.9	1.5	1.1	0.8
82.5°	1.5	1.5	1.5	1.5	1.5	1.1	0.8	0.8
85°	1.5	1.5	1.5	1.5	1.5	1.1	0.8	0.4
87.5°	1.5	1.5	1.5	1.5	1.5	1.1	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°	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5
62°	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8





61°	1.5	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8	1.1	1.1
62°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.8	1.1	1.1





61°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5
62°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1





61°	1.5	1.5	1.5	1.5	2.7	3.8	4.2	3.1
62°	1.5	1.5	1.5	1.5	2.7	3.4	3.8	2.7



(END OF REPORT)