

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: P208817

Luminaire Tested: **LDSQA6A10930D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208817
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: LDSQA6A10930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 684.4 lumens
Efficiency: N/A
Efficacy: 49.8 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

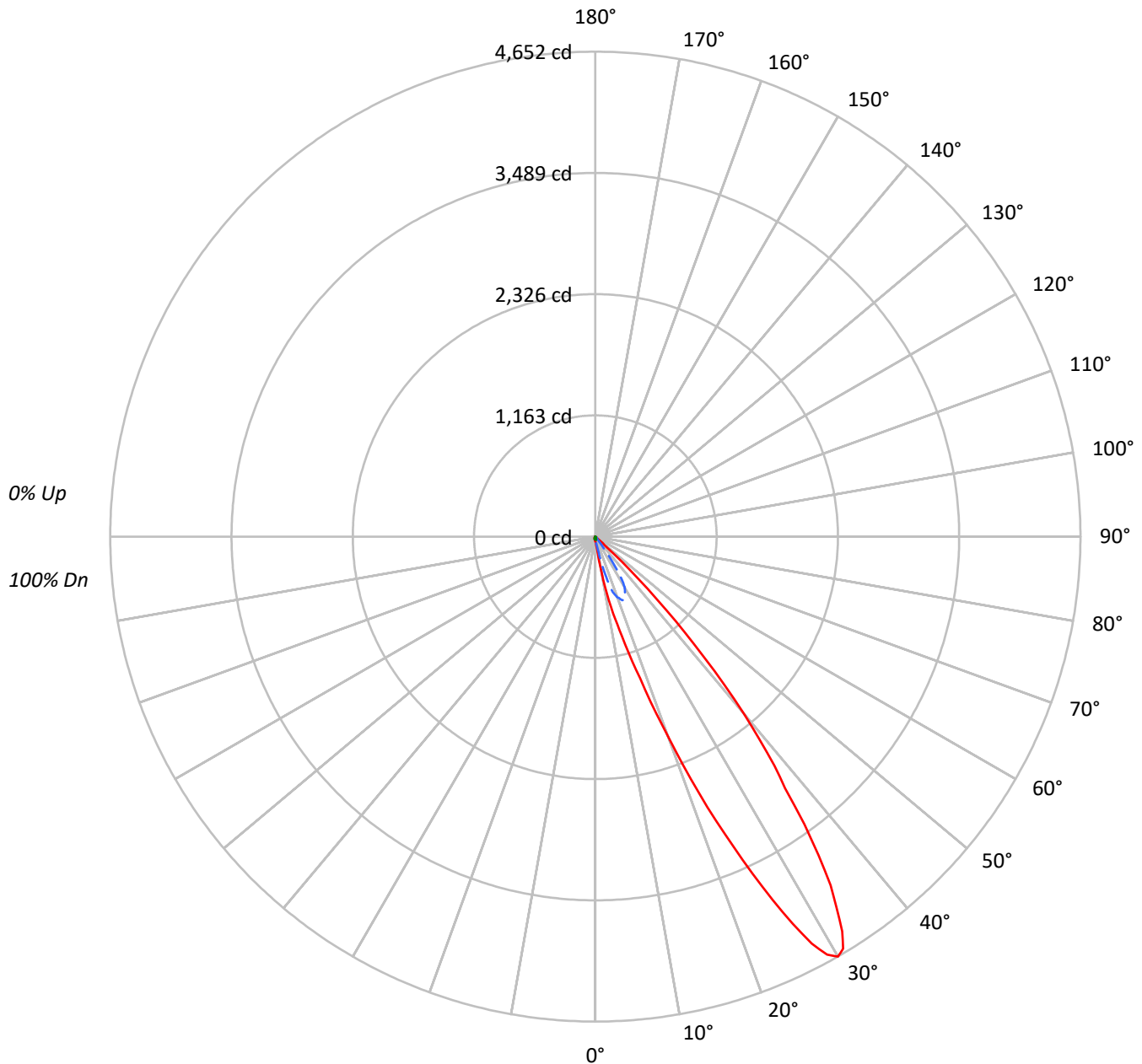
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1933	1933	1933
5°	2978	1828	1469
10°	15975	1626	1220
15°	44049	1315	1043
20°	93539	985	912
25°	169314	717	793
30°	231291	527	701
35°	196053	373	641
40°	124449	253	613
45°	43134	195	566
50°	2639	147	496
55°	458	120	383
60°	112	112	250
65°	61	132	194
70°	76	164	201
75°	0	216	216
80°	0	322	149
85°	0	642	148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.8
10°-20°	70.4	10.3
20°-30°	244.6	35.7
30°-40°	268.1	39.2
40°-50°	88.4	12.9
50°-60°	3.7	0.5
60°-70°	1.6	0.2
70°-80°	1.2	0.2
80°-90°	0.8	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°	320.5	46.8
0°-40°	588.7	86.0
0°-60°	680.8	99.5
0°-90°	684.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	69	56	42	36	34	15
15°	988	403	30	24	23	328
25°	3564	661	15	15	17	1668
35°	3730	220	7	9	12	2242
45°	708	11	3	6	9	624
55°	6	1	2	4	5	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°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	53.2	52.9	52.9	52.9	52.6	51.9	51.9	52.2	52.2	51.9	52.2
5°	68.9	68.3	68.0	67.6	66.4	66.0	64.7	65.7	64.7	63.8	63.8
7.5°	126.3	126.0	120.5	117.0	110.9	103.9	101.9	102.2	97.8	93.6	91.0
10°	365.4	366.0	350.0	356.4	333.4	324.1	306.4	300.0	284.0	270.5	254.2
11°	488.8	488.2	468.0	474.1	450.7	437.5	417.7	407.4	387.2	373.7	353.2
12°	622.2	602.6	595.9	601.6	577.6	560.3	536.2	523.1	498.1	484.3	459.6
13°	754.2	748.4	726.0	731.5	706.8	668.9	659.0	643.3	614.1	597.8	570.2
14°	868.6	847.5	840.4	844.0	819.6	783.7	773.8	769.0	724.1	706.5	675.7
15°	988.2	962.6	952.6	939.5	925.1	882.4	868.0	858.7	812.2	782.7	762.9
17.5°	1422.8	1386.6	1362.3	1332.4	1300.7	1221.9	1189.2	1158.1	1076.7	1037.6	978.6
20°	2041.5	1986.0	1923.5	1858.8	1796.6	1657.5	1576.7	1490.2	1378.9	1286.0	1215.5
21°	2340.8	2274.5	2199.2	2150.4	2033.5	1863.6	1754.6	1631.2	1488.2	1373.2	1284.4
22°	2654.6	2579.0	2516.2	2444.4	2282.2	2079.6	1942.7	1784.4	1599.5	1457.5	1345.3
23°	2959.5	2873.9	2798.6	2711.1	2523.5	2288.9	2126.4	1937.6	1714.8	1538.2	1399.4
24°	3250.5	3161.7	3075.2	2960.1	2745.4	2486.0	2295.0	2079.9	1824.8	1615.8	1450.4
25°	3564.0	3460.1	3348.3	3173.3	2955.0	2661.7	2441.8	2203.7	1922.5	1687.3	1493.4
26°	3876.2	3755.0	3587.4	3409.2	3148.3	2820.0	2569.4	2304.0	2005.9	1744.7	1525.1
27°	4169.2	4039.3	3842.5	3598.6	3321.7	2955.6	2674.5	2383.5	2063.9	1781.8	1539.8
28°	4419.8	4276.9	4057.6	3779.7	3450.8	3055.3	2744.1	2430.3	2091.8	1795.9	1541.8
29°	4584.9	4442.2	4206.0	3897.3	3523.9	3104.7	2771.6	2440.5	2090.2	1787.6	1528.6
30°	4652.2	4508.3	4266.9	3935.8	3537.7	3105.6	2760.4	2419.1	2062.3	1761.3	1502.7
31°	4612.8	4474.6	4229.7	3896.4	3489.0	3060.8	2713.3	2364.9	2006.8	1714.8	1463.9
32°	4467.2	4340.6	4105.4	3788.0	3388.7	2970.7	2632.2	2284.7	1928.6	1654.3	1415.5
33°	4245.4	4140.0	3899.6	3606.9	3254.7	2860.1	2533.5	2203.3	1834.4	1580.2	1363.9
34°	4032.9	3877.1	3664.0	3404.0	3082.9	2716.5	2411.0	2075.1	1734.4	1498.8	1304.9
35°	3730.0	3590.6	3393.8	3171.3	2882.9	2541.2	2235.7	1950.1	1622.5	1420.3	1243.0
36°	3410.5	3287.7	3144.7	2945.4	2669.4	2358.2	2078.6	1796.6	1507.5	1332.8	1177.6
37°	3020.0	2992.5	2859.5	2693.1	2446.6	2159.1	1896.3	1652.3	1399.8	1252.0	1105.8
38°	2789.6	2699.2	2577.4	2430.9	2189.2	1959.1	1720.3	1507.5	1302.0	1176.4	1024.1
39°	2496.3	2420.0	2307.8	2176.1	1968.1	1750.7	1556.5	1386.6	1221.2	1100.1	936.0
40°	2214.2	2150.8	2047.9	1934.7	1745.9	1567.1	1415.1	1280.2	1141.1	1018.6	848.8
42.5°	1396.2	1364.8	1322.5	1307.1	1239.5	1193.0	1137.6	1059.7	937.2	799.4	680.8
45°	708.4	688.2	687.5	719.0	740.4	742.7	737.5	717.7	638.2	598.8	493.3
47.5°	119.2	113.5	117.0	138.1	168.0	204.2	244.6	294.2	347.5	336.2	259.0
50°	39.4	38.1	37.2	38.1	36.9	37.8	37.2	36.2	32.7	34.3	35.3
51°	24.4	26.0	25.0	25.6	25.3	26.3	26.3	26.0	23.7	22.1	20.2
52°	16.7	17.0	17.3	17.6	17.3	17.6	17.9	17.9	17.3	16.7	15.1
53°	11.9	11.9	12.2	12.2	12.2	12.5	12.5	12.5	12.2	12.2	11.9
54°	8.3	8.7	8.7	8.7	8.7	9.0	9.0	9.0	9.3	9.0	9.0
55°	6.1	6.1	6.1	6.1	6.1	6.1	6.4	6.4	6.7	6.7	6.4
57.5°	2.6	2.6	2.2	2.6	2.6	2.6	2.6	2.9	2.9	3.2	3.2
60°	1.3	1.3	1.3	1.3	1.0	1.3	1.3	1.3	1.3	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.6	0.6
64°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3
66°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	51.3	51.9	51.0	51.6	50.3	50.3	49.4	49.7	49.4	48.7	48.7
5°	62.2	62.2	60.6	60.6	58.7	57.7	56.1	56.1	55.1	53.5	53.2
7.5°	85.3	82.1	78.5	77.2	73.4	70.8	68.0	66.7	63.8	61.2	59.3
10°	228.2	207.1	186.2	173.4	142.0	119.2	102.2	90.7	82.4	72.4	68.6
11°	321.8	294.9	267.6	241.0	210.3	179.2	159.6	128.9	109.3	87.2	76.6
12°	423.1	391.4	358.4	328.2	291.4	252.3	225.3	186.2	158.7	121.8	96.2
13°	527.0	491.1	451.6	420.2	378.5	333.7	291.4	255.1	220.8	172.8	135.3
14°	627.0	588.8	545.5	512.5	465.7	417.0	369.3	329.2	287.5	230.1	184.0
15°	716.1	688.8	634.0	601.3	551.0	499.1	445.9	402.9	353.5	289.8	236.6
17.5°	902.6	852.3	785.3	752.9	702.9	658.1	600.4	561.6	500.7	433.4	374.7
20°	1122.5	1048.5	957.7	889.5	802.9	724.1	651.3	620.9	583.0	537.2	482.4
21°	1182.8	1102.9	1003.9	934.3	845.6	764.5	678.9	630.5	589.1	549.4	503.6
22°	1226.7	1142.4	1038.2	965.8	874.4	794.0	706.5	648.4	593.3	548.4	507.1
23°	1263.9	1174.1	1065.8	986.9	891.4	808.4	720.6	662.9	602.0	546.2	501.3
24°	1297.5	1199.1	1085.3	1000.7	900.1	813.5	722.5	665.4	606.1	547.5	493.6
25°	1322.8	1214.8	1096.5	1007.8	902.0	811.9	718.0	660.6	601.3	543.3	485.0
26°	1340.1	1222.2	1099.7	1007.4	898.1	805.5	708.7	650.7	589.8	528.2	470.9
27°	1345.6	1220.3	1095.3	1000.1	888.5	793.0	693.0	631.8	571.8	510.3	451.9
28°	1340.1	1212.6	1085.0	985.6	872.5	772.5	667.7	606.8	552.6	490.4	428.9
29°	1325.1	1198.8	1066.1	964.2	847.2	739.1	635.3	582.7	530.5	460.3	390.1
30°	1301.7	1173.8	1038.8	932.7	809.7	697.2	606.1	560.6	493.9	411.6	335.9
31°	1269.0	1141.4	1003.6	891.1	759.7	656.1	580.8	519.3	436.9	347.1	269.9
32°	1229.2	1102.9	952.3	835.6	710.3	623.8	535.9	456.1	364.8	270.8	196.8
33°	1186.6	1053.6	893.6	777.3	668.0	580.5	471.2	378.2	284.0	190.4	124.0
34°	1137.2	993.0	827.9	718.6	620.5	515.4	394.3	293.9	202.6	115.7	63.8
35°	1077.6	918.3	762.5	668.0	552.6	429.2	310.0	220.2	126.9	58.3	34.6
36°	1005.5	841.4	705.8	602.9	473.1	344.6	223.7	140.4	68.3	34.3	27.2
37°	913.8	778.3	646.2	525.4	387.2	258.7	144.2	76.3	39.1	27.9	23.1
38°	834.7	719.9	582.4	440.7	298.4	177.3	87.5	43.0	30.8	23.4	19.2
39°	766.4	657.4	498.7	351.6	212.8	107.4	48.1	32.7	25.6	19.2	16.3
40°	706.8	568.3	410.3	263.8	136.9	59.6	34.6	27.2	20.8	16.0	13.1
42.5°	518.6	360.6	190.1	85.3	40.1	29.8	21.8	17.3	13.5	9.9	8.3
45°	308.0	162.2	57.4	34.9	25.3	18.9	13.8	10.9	8.3	6.1	5.1
47.5°	112.5	41.0	28.2	21.2	16.0	11.9	8.7	6.7	5.1	3.5	2.9
50°	23.1	19.9	15.4	12.5	9.3	7.1	5.1	3.8	2.9	2.2	1.9
51°	17.6	15.4	12.5	9.9	7.4	5.8	4.2	3.2	2.6	1.9	1.6
52°	13.5	11.9	9.6	8.0	6.1	4.5	3.2	2.6	1.9	1.3	1.3
53°	10.6	9.3	7.4	6.1	4.8	3.5	2.6	1.9	1.6	1.3	1.3
54°	8.0	7.1	5.8	4.8	3.8	2.9	1.9	1.6	1.3	1.3	1.0
55°	5.8	5.4	4.5	3.5	2.9	2.2	1.6	1.3	1.3	1.0	1.0
57.5°	2.9	2.6	2.2	1.9	1.6	1.3	1.0	1.0	1.0	1.0	0.6
60°	1.6	1.3	1.3	1.3	1.0	1.0	1.0	0.6	0.6	1.0	1.0



TEST NUMBER: P208817

CATALOG NUMBER: LDSQA6A10930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	0.6	0.6	0.6	0.6	1.0	0.6	0.6	0.6	1.0	1.0	1.0
64°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
65°	0.3	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
66°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
75°	0.3	0.3	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
77.5°	0.3	0.3	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
80°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
82.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
85°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
87.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	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: P208817

CATALOG NUMBER: LDSQA6A10930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	47.8	48.4	47.8	47.1	46.8	46.8	46.5	45.5	45.8	45.5	45.5
5°	51.6	51.9	50.6	49.7	49.0	48.4	47.8	46.5	46.2	45.8	45.5
7.5°	56.7	56.4	53.8	52.2	50.6	49.4	48.1	46.5	45.8	44.9	44.2
10°	64.1	61.9	57.7	54.8	52.6	50.0	48.1	45.5	44.2	43.0	42.0
11°	67.3	64.1	59.9	56.1	53.2	50.3	48.1	44.9	43.3	42.0	40.7
12°	77.2	68.6	61.9	57.7	53.8	50.6	47.8	44.6	42.6	40.7	39.4
13°	100.0	79.8	66.0	58.7	54.8	51.0	47.4	43.9	41.7	39.4	38.1
14°	137.2	102.6	76.3	62.2	55.1	51.0	47.1	43.3	40.7	38.5	36.9
15°	181.7	137.8	97.1	70.8	56.4	50.6	46.5	42.3	39.4	36.9	35.3
17.5°	306.1	248.7	186.5	132.7	82.1	55.5	43.9	39.1	35.6	32.7	30.8
20°	410.3	344.3	274.1	207.1	142.0	88.5	50.6	35.6	31.4	28.2	26.3
21°	433.0	371.2	296.8	226.6	159.3	102.6	57.4	35.6	29.8	26.6	24.7
22°	444.9	385.3	310.9	239.4	171.2	112.5	64.4	35.9	28.2	25.0	22.8
23°	443.0	388.5	316.4	243.3	176.6	117.3	67.3	36.2	26.6	23.4	21.2
24°	431.4	379.8	310.9	238.8	175.0	116.0	66.4	35.6	25.0	21.8	19.9
25°	417.0	362.8	296.2	226.6	164.8	108.0	61.5	33.3	23.7	20.5	18.6
26°	400.7	345.9	275.7	205.1	148.1	94.6	51.9	29.5	21.8	18.9	17.3
27°	381.1	323.7	250.3	182.4	125.0	76.3	41.7	25.0	20.2	17.3	16.0
28°	351.9	292.3	218.0	152.3	100.0	57.7	31.4	21.5	18.6	16.0	14.7
29°	308.4	248.1	177.6	118.9	73.4	39.7	24.0	19.2	16.7	14.4	13.5
30°	253.9	196.2	131.7	81.7	47.1	26.9	19.6	17.0	14.7	13.1	12.5
31°	192.3	139.4	85.3	47.1	28.2	19.9	17.3	14.7	13.1	11.9	11.5
32°	126.9	84.3	45.2	27.2	20.5	17.3	15.1	13.1	11.9	10.9	10.6
33°	68.0	38.8	26.0	20.5	17.3	15.1	13.1	11.5	10.6	9.9	9.6
34°	34.6	25.3	21.2	17.6	14.7	13.1	11.5	10.3	9.6	9.0	8.7
35°	25.6	21.8	18.3	15.1	12.8	11.5	10.3	9.3	8.7	8.0	8.0
36°	21.8	18.3	15.1	13.1	11.5	10.3	9.3	8.0	7.7	7.4	7.1
37°	18.3	15.7	13.1	11.2	9.9	9.0	8.0	7.4	6.7	6.4	6.4
38°	15.4	13.5	11.2	9.6	8.7	8.0	7.1	6.4	6.1	5.8	5.8
39°	12.8	11.2	9.6	8.3	7.4	6.7	6.1	5.8	5.4	5.1	5.1
40°	10.6	9.6	8.0	7.1	6.4	5.8	5.4	5.1	4.8	4.5	4.8
42.5°	6.7	5.8	5.1	4.8	4.2	4.2	3.8	3.5	3.5	3.5	3.5
45°	3.8	3.5	3.2	3.2	2.9	2.9	2.9	2.6	2.9	2.9	2.9
47.5°	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.2
50°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6
51°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6
52°	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3
53°	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3
54°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
55°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3



TEST NUMBER: P208817

CATALOG NUMBER: LDSQA6A10930D010TE 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	1.3	1.0	1.0	1.0	1.3	1.3
64°	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.3
65°	1.0	1.0	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.3
66°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.3	1.3
67.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.3	1.3	1.3
70°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: P208817

CATALOG NUMBER: LDSQA6A10930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	44.6	44.2	43.9	43.9	41.3	40.1	38.5	38.5
5°	43.9	43.6	43.0	42.3	38.1	36.2	34.3	34.0
7.5°	42.6	41.7	40.7	40.1	34.9	32.7	30.8	30.5
10°	40.1	38.8	37.8	37.2	31.7	29.5	27.9	27.9
11°	38.8	37.5	36.5	35.6	30.1	28.2	26.9	26.9
12°	37.5	36.2	34.9	34.3	28.8	27.2	26.0	25.6
13°	36.2	34.6	33.7	32.7	27.6	26.0	25.0	25.0
14°	34.9	33.3	32.1	31.1	26.3	24.7	24.0	24.0
15°	33.0	31.4	30.5	29.5	24.7	23.7	23.1	23.4
17.5°	28.5	27.2	26.3	25.3	21.5	21.2	21.2	21.5
20°	24.4	23.1	22.1	21.5	18.6	18.9	19.2	19.9
21°	22.8	21.5	20.5	19.9	17.6	17.9	18.6	19.2
22°	21.2	20.2	19.2	18.6	16.7	17.0	17.9	18.6
23°	19.6	18.6	17.9	17.3	15.7	16.3	17.3	17.9
24°	18.3	17.3	16.7	16.0	14.7	15.4	16.7	17.3
25°	17.0	16.0	15.4	15.1	13.8	14.7	16.0	16.7
26°	15.7	15.1	14.4	14.1	13.1	14.1	15.4	16.3
27°	14.4	13.8	13.5	13.1	12.2	13.5	14.7	15.7
28°	13.5	12.8	12.5	12.2	11.5	12.8	14.4	15.1
29°	12.5	11.9	11.5	11.2	10.9	12.2	13.8	14.7
30°	11.5	11.2	10.6	10.6	10.3	11.9	13.1	14.1
31°	10.6	10.3	9.9	9.6	9.6	11.2	12.8	13.8
32°	9.9	9.6	9.3	9.0	9.3	10.6	12.2	13.5
33°	9.0	8.7	8.7	8.3	8.7	10.3	11.9	13.1
34°	8.0	8.0	7.7	7.7	8.3	9.9	11.5	12.5
35°	7.4	7.1	7.1	7.1	8.0	9.3	11.2	12.2
36°	6.7	6.7	6.4	6.4	7.7	9.0	10.9	11.9
37°	6.1	6.1	6.1	5.8	7.1	8.7	10.3	11.5
38°	5.4	5.4	5.4	5.4	6.7	8.3	10.3	11.5
39°	4.8	4.8	5.1	5.1	6.4	8.0	9.6	11.2
40°	4.5	4.5	4.5	4.5	6.1	7.7	9.3	10.9
42.5°	3.5	3.5	3.8	3.8	5.4	7.1	8.7	9.9
45°	2.9	2.9	3.2	3.2	4.8	6.4	7.7	9.3
47.5°	2.2	2.2	2.6	2.6	4.2	5.8	7.1	8.3
50°	1.6	1.9	1.9	2.2	3.8	5.1	6.1	7.4
51°	1.6	1.6	1.9	1.9	3.5	4.8	5.8	7.1
52°	1.6	1.6	1.9	1.9	3.2	4.5	5.4	6.4
53°	1.3	1.6	1.6	1.9	3.2	4.5	5.1	6.1
54°	1.3	1.3	1.6	1.6	3.2	4.2	5.1	5.4
55°	1.3	1.3	1.6	1.6	2.9	4.2	4.8	5.1
57.5°	1.3	1.3	1.3	1.3	2.6	3.5	4.2	4.2
60°	1.3	1.3	1.3	1.3	2.6	3.2	3.8	2.9



TEST NUMBER: P208817

CATALOG NUMBER: LDSQA6A10930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.3	1.3	1.3	1.3	2.2	2.9	2.9	2.2
64°	1.3	1.3	1.3	1.3	2.2	2.9	2.9	2.2
65°	1.3	1.3	1.3	1.3	2.2	2.6	2.6	1.9
66°	1.3	1.3	1.3	1.3	2.2	2.6	2.6	1.9
67.5°	1.3	1.3	1.3	1.3	1.9	2.2	2.2	1.9
70°	1.3	1.3	1.3	1.3	1.9	2.2	1.9	1.6
72.5°	1.3	1.3	1.3	1.3	1.9	1.9	1.6	1.3
75°	1.3	1.3	1.3	1.3	1.6	1.6	1.3	1.3
77.5°	1.3	1.3	1.3	1.3	1.6	1.6	1.3	1.0
80°	1.3	1.3	1.3	1.3	1.6	1.3	1.0	0.6
82.5°	1.3	1.3	1.3	1.3	1.3	1.0	0.6	0.6
85°	1.3	1.3	1.3	1.3	1.3	1.0	0.6	0.3
87.5°	1.3	1.3	1.3	1.3	1.3	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°	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
62°	1.0	1.0	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6





61°	1.3	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.6	1.0	1.0
62°	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.6	0.6	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	1.3
62°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0





61°	1.3	1.3	1.3	1.3	2.2	3.2	3.5	2.6
62°	1.3	1.3	1.3	1.3	2.2	2.9	3.2	2.2



(END OF REPORT)