

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: P208826

Luminaire Tested: **LDSQA6A15935D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208826
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: LDSQA6A15935D010TE 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 / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1033.7 lumens
Efficiency: N/A
Efficacy: 47.4 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

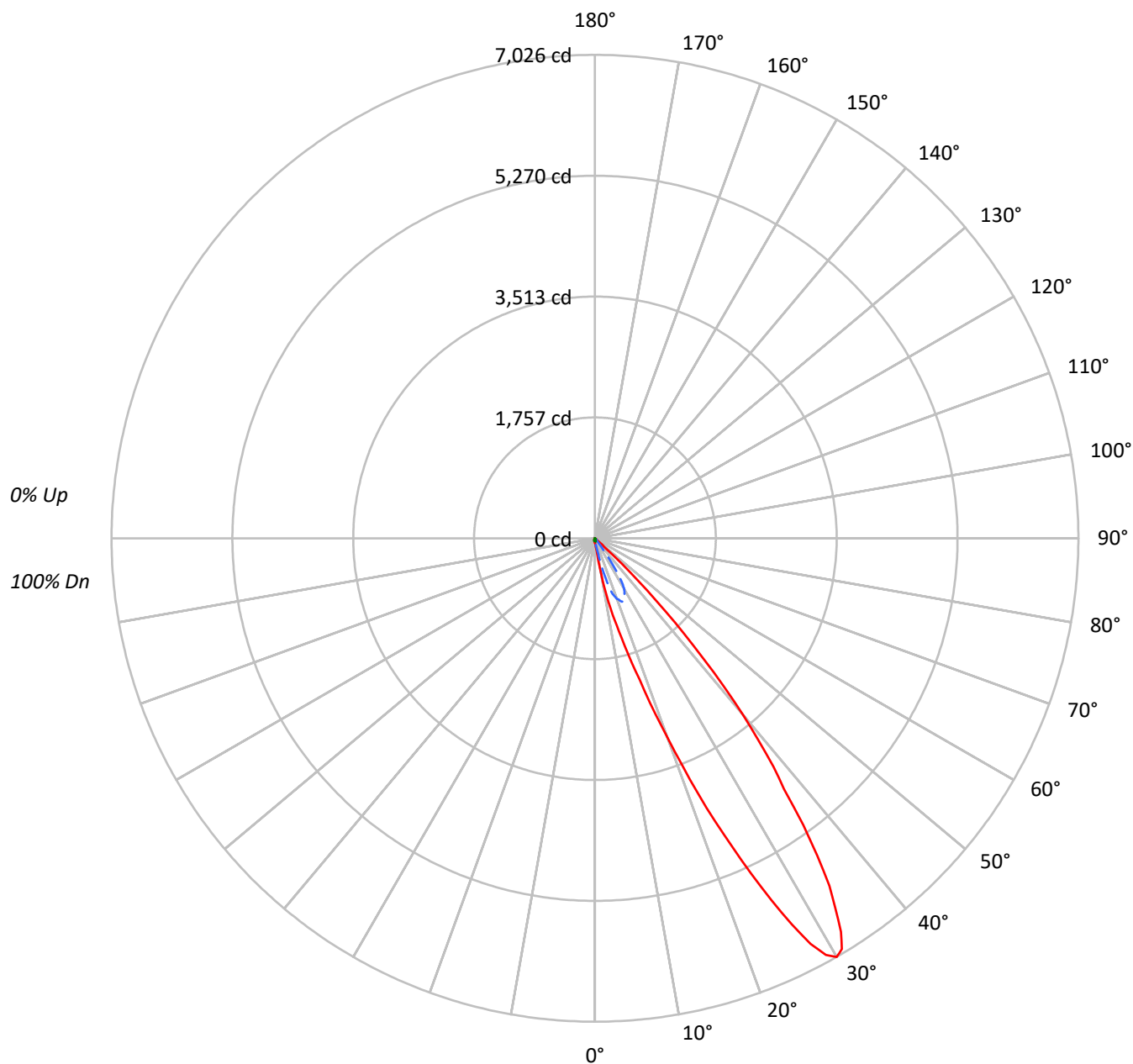
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	2919	2919	2919
5°	4499	2762	2217
10°	24129	2457	1841
15°	66527	1984	1573
20°	141269	1485	1375
25°	255714	1083	1197
30°	349317	795	1059
35°	296104	562	967
40°	187961	382	927
45°	65146	292	852
50°	3985	228	744
55°	691	180	578
60°	164	164	379
65°	102	194	295
70°	126	239	302
75°	0	316	316
80°	0	471	248
85°	0	939	247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.8
10°-20°	106.3	10.3
20°-30°	369.4	35.7
30°-40°	405.0	39.2
40°-50°	133.6	12.9
50°-60°	5.5	0.5
60°-70°	2.4	0.2
70°-80°	1.9	0.2
80°-90°	1.2	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°	484.1	46.8
0°-40°	889.1	86.0
0°-60°	1028.2	99.5
0°-90°	1033.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	104	85	64	55	51	22
15°	1492	608	44	36	35	496
25°	5383	998	23	22	25	2519
35°	5634	333	11	14	18	3386
45°	1070	16	5	10	14	943
55°	9	2	2	6	8	13
65°	1	2	2	4	3	1
75°	0	2	2	2	2	0
85°	0	2	2	2	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°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	80.4	79.9	79.9	79.9	79.4	78.4	78.4	78.9	78.9	78.4	78.9
5°	104.1	103.1	102.6	102.1	100.2	99.7	97.8	99.2	97.8	96.3	96.3
7.5°	190.7	190.3	182.0	176.7	167.5	156.8	153.9	154.4	147.7	141.4	137.5
10°	551.9	552.8	528.6	538.3	503.5	489.4	462.8	453.1	428.9	408.6	383.9
11°	738.3	737.3	706.8	716.0	680.6	660.8	630.8	615.3	584.8	564.5	533.5
12°	939.6	910.1	899.9	908.7	872.3	846.2	809.9	790.0	752.3	731.5	694.2
13°	1139.1	1130.4	1096.5	1104.7	1067.4	1010.3	995.3	971.6	927.5	902.8	861.2
14°	1311.9	1280.0	1269.3	1274.6	1237.8	1183.6	1168.6	1161.4	1093.6	1067.0	1020.5
15°	1492.5	1453.7	1438.7	1418.9	1397.1	1332.7	1310.9	1296.9	1226.7	1182.2	1152.2
17.5°	2148.9	2094.2	2057.4	2012.4	1964.5	1845.4	1796.0	1749.0	1626.1	1567.0	1478.0
20°	3083.2	2999.5	2905.1	2807.3	2713.4	2503.3	2381.3	2250.6	2082.6	1942.2	1835.7
21°	3535.4	3435.2	3321.4	3247.8	3071.1	2814.5	2650.0	2463.6	2247.7	2073.9	1939.8
22°	4009.3	3895.1	3800.2	3691.7	3446.8	3140.8	2934.1	2695.0	2415.7	2201.2	2031.8
23°	4469.7	4340.4	4226.7	4094.5	3811.3	3456.9	3211.5	2926.4	2589.9	2323.2	2113.6
24°	4909.2	4775.1	4644.4	4470.6	4146.3	3754.7	3466.1	3141.3	2756.0	2440.3	2190.5
25°	5382.7	5225.8	5056.9	4792.6	4462.9	4020.0	3687.9	3328.2	2903.6	2548.3	2255.4
26°	5854.2	5671.2	5418.0	5148.9	4754.8	4259.1	3880.5	3479.7	3029.5	2634.9	2303.3
27°	6296.7	6100.6	5803.4	5435.0	5016.7	4463.9	4039.3	3599.8	3117.1	2691.1	2325.6
28°	6675.2	6459.3	6128.2	5708.5	5211.8	4614.4	4144.4	3670.4	3159.2	2712.4	2328.5
29°	6924.5	6709.1	6352.3	5886.2	5322.2	4689.0	4186.0	3685.9	3156.8	2699.8	2308.7
30°	7026.2	6808.8	6444.3	5944.2	5343.0	4690.4	4169.1	3653.5	3114.7	2660.1	2269.5
31°	6966.7	6758.0	6388.2	5884.7	5269.4	4622.7	4097.9	3571.7	3030.9	2589.9	2210.9
32°	6746.9	6555.7	6200.3	5721.1	5117.9	4486.6	3975.4	3450.7	2912.8	2498.4	2137.8
33°	6411.9	6252.6	5889.5	5447.6	4915.5	4319.6	3826.3	3327.7	2770.5	2386.6	2059.8
34°	6090.9	5855.7	5533.7	5141.1	4656.1	4102.7	3641.4	3134.1	2619.5	2263.6	1970.8
35°	5633.5	5422.9	5125.6	4789.7	4354.0	3837.9	3376.6	2945.3	2450.5	2145.0	1877.3
36°	5150.8	4965.4	4749.5	4448.4	4031.6	3561.5	3139.4	2713.4	2276.7	2012.9	1778.6
37°	4561.2	4519.5	4318.6	4067.4	3695.1	3260.9	2863.9	2495.5	2114.1	1890.9	1670.1
38°	4213.1	4076.6	3892.6	3671.4	3306.4	2958.8	2598.2	2276.7	1966.4	1776.6	1546.7
39°	3770.2	3654.9	3485.5	3286.5	2972.4	2644.1	2350.8	2094.2	1844.4	1661.4	1413.6
40°	3344.2	3248.3	3092.9	2922.0	2636.9	2366.8	2137.3	1933.5	1723.4	1538.5	1281.9
42.5°	2108.7	2061.3	1997.4	1974.2	1872.0	1801.8	1718.1	1600.4	1415.5	1207.3	1028.2
45°	1069.9	1039.4	1038.4	1085.8	1118.3	1121.7	1113.9	1083.9	963.8	904.3	745.0
47.5°	180.1	171.4	176.7	208.6	253.7	308.4	369.4	444.4	524.8	507.8	391.2
50°	59.5	57.6	56.2	57.6	55.7	57.1	56.2	54.7	49.4	51.8	53.3
51°	36.8	39.2	37.8	38.7	38.2	39.7	39.7	39.2	35.8	33.4	30.5
52°	25.2	25.7	26.1	26.6	26.1	26.6	27.1	27.1	26.1	25.2	22.8
53°	17.9	17.9	18.4	18.4	18.4	18.9	18.9	18.9	18.4	18.4	17.9
54°	12.6	13.1	13.1	13.1	13.1	13.6	13.6	13.6	14.0	13.6	13.6
55°	9.2	9.2	9.2	9.2	9.2	9.2	9.7	9.7	10.2	10.2	9.7
57.5°	3.9	3.9	3.4	3.9	3.9	3.9	3.9	4.4	4.4	4.8	4.8
60°	1.9	1.9	1.9	1.9	1.5	1.9	1.9	1.9	1.9	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0
64°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
66°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	77.5	78.4	77.0	77.9	76.0	76.0	74.6	75.0	74.6	73.6	73.6
5°	93.9	93.9	91.5	91.5	88.6	87.1	84.7	84.7	83.3	80.8	80.4
7.5°	128.8	123.9	118.6	116.7	110.9	107.0	102.6	100.7	96.3	92.5	89.6
10°	344.7	312.7	281.3	261.9	214.5	180.1	154.4	137.0	124.4	109.4	103.6
11°	486.0	445.4	404.2	364.0	317.6	270.6	241.1	194.6	165.1	131.7	115.7
12°	639.0	591.1	541.2	495.7	440.0	381.0	340.3	281.3	239.6	184.0	145.2
13°	795.9	741.6	682.1	634.7	571.7	503.9	440.0	385.3	333.5	260.9	204.3
14°	946.9	889.3	823.9	774.1	703.4	629.8	557.7	497.2	434.2	347.6	277.9
15°	1081.5	1040.3	957.5	908.2	832.2	753.7	673.4	608.5	534.0	437.6	357.3
17.5°	1363.2	1287.2	1186.0	1137.1	1061.6	993.9	906.7	848.1	756.2	654.5	565.9
20°	1695.3	1583.5	1446.5	1343.4	1212.7	1093.6	983.7	937.7	880.6	811.3	728.6
21°	1786.3	1665.8	1516.2	1411.1	1277.1	1154.6	1025.3	952.2	889.8	829.7	760.5
22°	1852.6	1725.3	1568.0	1458.6	1320.6	1199.1	1067.0	979.3	896.1	828.3	765.8
23°	1908.8	1773.3	1609.6	1490.5	1346.3	1220.9	1088.3	1001.1	909.1	824.9	757.1
24°	1959.6	1811.0	1639.2	1511.4	1359.3	1228.6	1091.2	1005.0	915.4	826.8	745.5
25°	1997.9	1834.7	1656.1	1522.0	1362.3	1226.2	1084.4	997.7	908.2	820.5	732.4
26°	2024.0	1845.9	1660.9	1521.5	1356.4	1216.5	1070.3	982.7	890.7	797.8	711.1
27°	2032.2	1843.0	1654.2	1510.4	1341.9	1197.7	1046.6	954.2	863.6	770.7	682.6
28°	2024.0	1831.3	1638.7	1488.6	1317.7	1166.7	1008.4	916.4	834.6	740.7	647.7
29°	2001.3	1810.5	1610.1	1456.2	1279.5	1116.3	959.5	880.1	801.2	695.2	589.1
30°	1965.9	1772.8	1569.0	1408.7	1222.8	1052.9	915.4	846.7	746.0	621.6	507.3
31°	1916.5	1723.9	1515.7	1345.8	1147.3	990.9	877.2	784.2	659.8	524.3	407.6
32°	1856.5	1665.8	1438.3	1262.0	1072.8	942.1	809.4	688.9	550.9	409.1	297.2
33°	1792.1	1591.2	1349.7	1173.9	1008.9	876.7	711.6	571.2	428.9	287.6	187.3
34°	1717.6	1499.7	1250.4	1085.3	937.2	778.4	595.4	443.9	306.0	174.8	96.3
35°	1627.5	1386.9	1151.7	1008.9	834.6	648.2	468.1	332.6	191.7	88.1	52.3
36°	1518.6	1270.8	1066.0	910.6	714.5	520.4	337.9	212.0	103.1	51.8	41.1
37°	1380.2	1175.4	975.9	793.4	584.8	390.7	217.8	115.2	59.1	42.1	34.9
38°	1260.6	1087.3	879.6	665.6	450.7	267.7	132.2	64.9	46.5	35.3	29.0
39°	1157.5	992.9	753.3	531.1	321.4	162.2	72.6	49.4	38.7	29.0	24.7
40°	1067.4	858.3	619.6	398.4	206.7	90.0	52.3	41.1	31.5	24.2	19.8
42.5°	783.3	544.6	287.1	128.8	60.5	45.0	32.9	26.1	20.3	15.0	12.6
45°	465.2	245.0	86.7	52.8	38.2	28.6	20.8	16.5	12.6	9.2	7.7
47.5°	169.9	62.0	42.6	32.0	24.2	17.9	13.1	10.2	7.7	5.3	4.4
50°	34.9	30.0	23.2	18.9	14.0	10.7	7.7	5.8	4.4	3.4	2.9
51°	26.6	23.2	18.9	15.0	11.1	8.7	6.3	4.8	3.9	2.9	2.4
52°	20.3	17.9	14.5	12.1	9.2	6.8	4.8	3.9	2.9	1.9	1.9
53°	16.0	14.0	11.1	9.2	7.3	5.3	3.9	2.9	2.4	1.9	1.9
54°	12.1	10.7	8.7	7.3	5.8	4.4	2.9	2.4	1.9	1.9	1.5
55°	8.7	8.2	6.8	5.3	4.4	3.4	2.4	1.9	1.9	1.5	1.5
57.5°	4.4	3.9	3.4	2.9	2.4	1.9	1.5	1.5	1.5	1.5	1.0
60°	2.4	1.9	1.9	1.9	1.5	1.5	1.5	1.0	1.0	1.5	1.5



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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°	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.5	1.5	1.5
64°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
65°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
66°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
75°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
77.5°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
80°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
82.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
85°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5
87.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	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: P208826

CATALOG NUMBER: LDSQA6A15935D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	72.1	73.1	72.1	71.2	70.7	70.7	70.2	68.7	69.2	68.7	68.7
5°	77.9	78.4	76.5	75.0	74.1	73.1	72.1	70.2	69.7	69.2	68.7
7.5°	85.7	85.2	81.3	78.9	76.5	74.6	72.6	70.2	69.2	67.8	66.8
10°	96.8	93.4	87.1	82.8	79.4	75.5	72.6	68.7	66.8	64.9	63.4
11°	101.7	96.8	90.5	84.7	80.4	76.0	72.6	67.8	65.4	63.4	61.5
12°	116.7	103.6	93.4	87.1	81.3	76.5	72.1	67.3	64.4	61.5	59.5
13°	151.0	120.5	99.7	88.6	82.8	77.0	71.6	66.3	62.9	59.5	57.6
14°	207.2	154.9	115.2	93.9	83.3	77.0	71.2	65.4	61.5	58.1	55.7
15°	274.5	208.2	146.7	107.0	85.2	76.5	70.2	63.9	59.5	55.7	53.3
17.5°	462.3	375.7	281.7	200.4	123.9	83.7	66.3	59.1	53.7	49.4	46.5
20°	619.6	519.9	413.9	312.7	214.5	133.6	76.5	53.7	47.4	42.6	39.7
21°	654.0	560.6	448.3	342.3	240.6	154.9	86.7	53.7	45.0	40.2	37.3
22°	671.9	581.9	469.6	361.6	258.5	169.9	97.3	54.2	42.6	37.8	34.4
23°	669.0	586.7	477.8	367.4	266.7	177.2	101.7	54.7	40.2	35.3	32.0
24°	651.6	573.7	469.6	360.7	264.3	175.2	100.2	53.7	37.8	32.9	30.0
25°	629.8	548.0	447.3	342.3	248.8	163.1	92.9	50.3	35.8	31.0	28.1
26°	605.1	522.3	416.3	309.8	223.7	142.8	78.4	44.5	32.9	28.6	26.1
27°	575.6	488.9	378.1	275.5	188.8	115.2	62.9	37.8	30.5	26.1	24.2
28°	531.5	441.5	329.2	229.9	151.0	87.1	47.4	32.4	28.1	24.2	22.3
29°	465.7	374.7	268.2	179.6	110.9	60.0	36.3	29.0	25.2	21.8	20.3
30°	383.4	296.3	199.0	123.4	71.2	40.7	29.5	25.7	22.3	19.8	18.9
31°	290.5	210.6	128.8	71.2	42.6	30.0	26.1	22.3	19.8	17.9	17.4
32°	191.7	127.3	68.3	41.1	31.0	26.1	22.8	19.8	17.9	16.5	16.0
33°	102.6	58.6	39.2	31.0	26.1	22.8	19.8	17.4	16.0	15.0	14.5
34°	52.3	38.2	32.0	26.6	22.3	19.8	17.4	15.5	14.5	13.6	13.1
35°	38.7	32.9	27.6	22.8	19.4	17.4	15.5	14.0	13.1	12.1	12.1
36°	32.9	27.6	22.8	19.8	17.4	15.5	14.0	12.1	11.6	11.1	10.7
37°	27.6	23.7	19.8	16.9	15.0	13.6	12.1	11.1	10.2	9.7	9.7
38°	23.2	20.3	16.9	14.5	13.1	12.1	10.7	9.7	9.2	8.7	8.7
39°	19.4	16.9	14.5	12.6	11.1	10.2	9.2	8.7	8.2	7.7	7.7
40°	16.0	14.5	12.1	10.7	9.7	8.7	8.2	7.7	7.3	6.8	7.3
42.5°	10.2	8.7	7.7	7.3	6.3	6.3	5.8	5.3	5.3	5.3	5.3
45°	5.8	5.3	4.8	4.8	4.4	4.4	4.4	3.9	4.4	4.4	4.4
47.5°	3.4	3.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4	3.4
50°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4	2.4
51°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4
52°	1.9	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9
53°	1.5	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9
54°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9
55°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9
57.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9



TEST NUMBER: P208826

CATALOG NUMBER: LDSQA6A15935D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.5	1.5	1.5	1.5	1.5	1.9	1.5	1.5	1.5	1.9	1.9
64°	1.5	1.5	1.5	1.5	1.5	1.9	1.5	1.5	1.5	1.5	1.9
65°	1.5	1.5	1.9	1.9	1.9	1.9	1.5	1.5	1.5	1.5	1.9
66°	1.5	1.5	1.9	1.9	1.9	1.9	1.9	1.5	1.5	1.9	1.9
67.5°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.5	1.9	1.9	1.9
70°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P208826

CATALOG NUMBER: LDSQA6A15935D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	67.3	66.8	66.3	66.3	62.4	60.5	58.1	58.1
5°	66.3	65.8	64.9	63.9	57.6	54.7	51.8	51.3
7.5°	64.4	62.9	61.5	60.5	52.8	49.4	46.5	46.0
10°	60.5	58.6	57.1	56.2	47.9	44.5	42.1	42.1
11°	58.6	56.6	55.2	53.7	45.5	42.6	40.7	40.7
12°	56.6	54.7	52.8	51.8	43.6	41.1	39.2	38.7
13°	54.7	52.3	50.8	49.4	41.6	39.2	37.8	37.8
14°	52.8	50.3	48.4	47.0	39.7	37.3	36.3	36.3
15°	49.9	47.4	46.0	44.5	37.3	35.8	34.9	35.3
17.5°	43.1	41.1	39.7	38.2	32.4	32.0	32.0	32.4
20°	36.8	34.9	33.4	32.4	28.1	28.6	29.0	30.0
21°	34.4	32.4	31.0	30.0	26.6	27.1	28.1	29.0
22°	32.0	30.5	29.0	28.1	25.2	25.7	27.1	28.1
23°	29.5	28.1	27.1	26.1	23.7	24.7	26.1	27.1
24°	27.6	26.1	25.2	24.2	22.3	23.2	25.2	26.1
25°	25.7	24.2	23.2	22.8	20.8	22.3	24.2	25.2
26°	23.7	22.8	21.8	21.3	19.8	21.3	23.2	24.7
27°	21.8	20.8	20.3	19.8	18.4	20.3	22.3	23.7
28°	20.3	19.4	18.9	18.4	17.4	19.4	21.8	22.8
29°	18.9	17.9	17.4	16.9	16.5	18.4	20.8	22.3
30°	17.4	16.9	16.0	16.0	15.5	17.9	19.8	21.3
31°	16.0	15.5	15.0	14.5	14.5	16.9	19.4	20.8
32°	15.0	14.5	14.0	13.6	14.0	16.0	18.4	20.3
33°	13.6	13.1	13.1	12.6	13.1	15.5	17.9	19.8
34°	12.1	12.1	11.6	11.6	12.6	15.0	17.4	18.9
35°	11.1	10.7	10.7	10.7	12.1	14.0	16.9	18.4
36°	10.2	10.2	9.7	9.7	11.6	13.6	16.5	17.9
37°	9.2	9.2	9.2	8.7	10.7	13.1	15.5	17.4
38°	8.2	8.2	8.2	8.2	10.2	12.6	15.5	17.4
39°	7.3	7.3	7.7	7.7	9.7	12.1	14.5	16.9
40°	6.8	6.8	6.8	6.8	9.2	11.6	14.0	16.5
42.5°	5.3	5.3	5.8	5.8	8.2	10.7	13.1	15.0
45°	4.4	4.4	4.8	4.8	7.3	9.7	11.6	14.0
47.5°	3.4	3.4	3.9	3.9	6.3	8.7	10.7	12.6
50°	2.4	2.9	2.9	3.4	5.8	7.7	9.2	11.1
51°	2.4	2.4	2.9	2.9	5.3	7.3	8.7	10.7
52°	2.4	2.4	2.9	2.9	4.8	6.8	8.2	9.7
53°	1.9	2.4	2.4	2.9	4.8	6.8	7.7	9.2
54°	1.9	1.9	2.4	2.4	4.8	6.3	7.7	8.2
55°	1.9	1.9	2.4	2.4	4.4	6.3	7.3	7.7
57.5°	1.9	1.9	1.9	1.9	3.9	5.3	6.3	6.3
60°	1.9	1.9	1.9	1.9	3.9	4.8	5.8	4.4



TEST NUMBER: P208826

CATALOG NUMBER: LDSQA6A15935D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.9	1.9	1.9	1.9	3.4	4.4	4.4	3.4
64°	1.9	1.9	1.9	1.9	3.4	4.4	4.4	3.4
65°	1.9	1.9	1.9	1.9	3.4	3.9	3.9	2.9
66°	1.9	1.9	1.9	1.9	3.4	3.9	3.9	2.9
67.5°	1.9	1.9	1.9	1.9	2.9	3.4	3.4	2.9
70°	1.9	1.9	1.9	1.9	2.9	3.4	2.9	2.4
72.5°	1.9	1.9	1.9	1.9	2.9	2.9	2.4	1.9
75°	1.9	1.9	1.9	1.9	2.4	2.4	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	2.4	2.4	1.9	1.5
80°	1.9	1.9	1.9	1.9	2.4	1.9	1.5	1.0
82.5°	1.9	1.9	1.9	1.9	1.9	1.5	1.0	1.0
85°	1.9	1.9	1.9	1.9	1.9	1.5	1.0	0.5
87.5°	1.9	1.9	1.9	1.9	1.9	1.5	0.5	0.5
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°	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9
62°	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0





61°	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.5





61°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
62°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5





61°	1.9	1.9	1.9	1.9	3.4	4.8	5.3	3.9
62°	1.9	1.9	1.9	1.9	3.4	4.4	4.8	3.4



(END OF REPORT)