

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: P208816

Luminaire Tested: **LDSQA6A10927D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208816
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: LDSQA6A10927D010TE 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: 654.1 lumens
Efficiency: N/A
Efficacy: 47.6 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

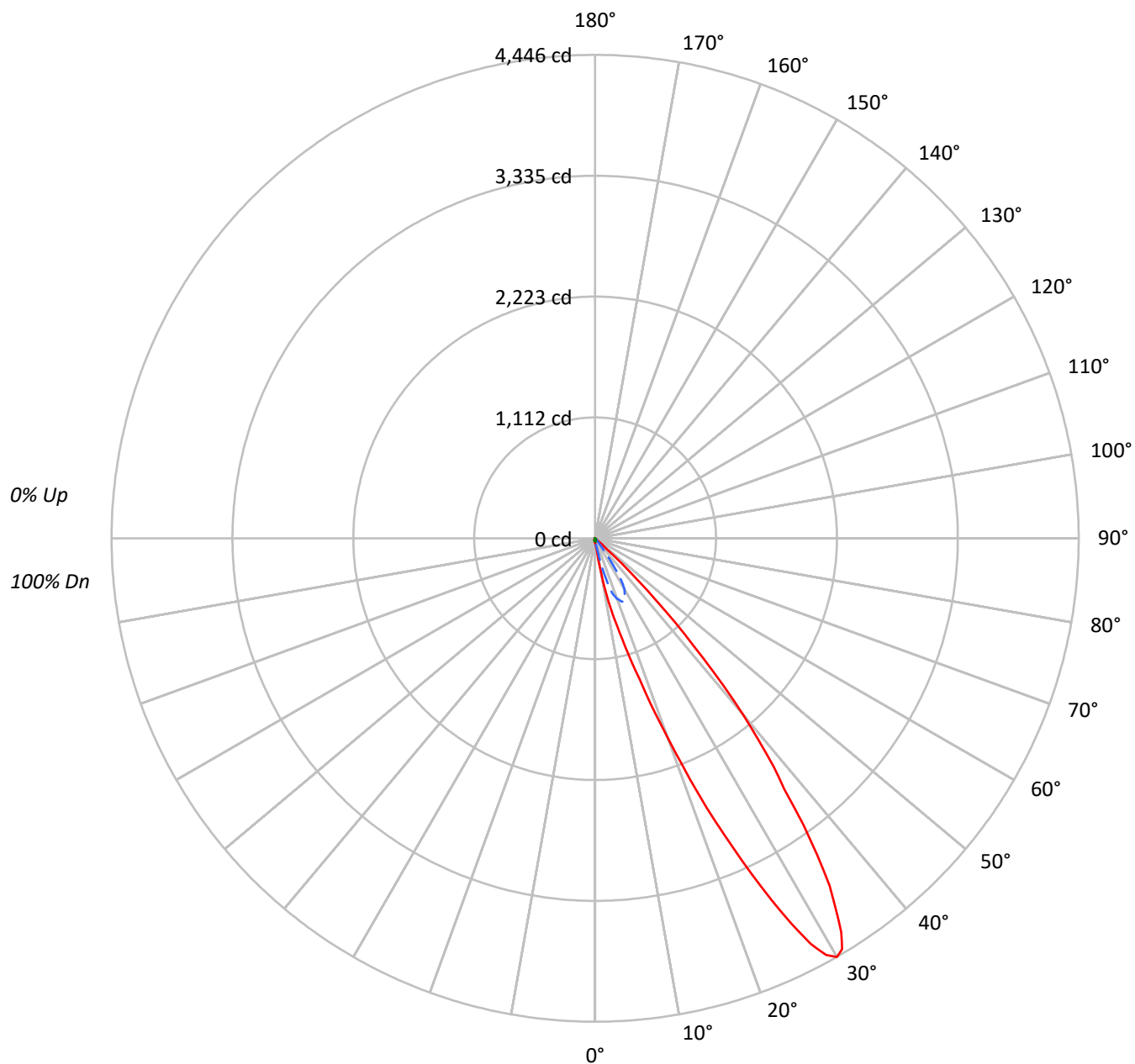
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	74	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°	1847	1847	1847
5°	2848	1746	1405
10°	15267	1552	1167
15°	42101	1257	998
20°	89397	939	871
25°	161822	684	755
30°	221059	502	671
35°	187381	352	610
40°	118947	242	585
45°	41222	189	542
50°	2525	141	469
55°	435	113	368
60°	103	103	241
65°	61	122	183
70°	76	151	189
75°	0	200	200
80°	0	298	149
85°	0	593	148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.8
10°-20°	67.3	10.3
20°-30°	233.8	35.7
30°-40°	256.3	39.2
40°-50°	84.5	12.9
50°-60°	3.5	0.5
60°-70°	1.5	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°	306.4	46.8
0°-40°	562.6	86.0
0°-60°	650.6	99.5
0°-90°	654.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	66	54	40	35	32	14
15°	944	385	28	23	22	314
25°	3406	631	14	14	16	1594
35°	3565	210	7	9	12	2143
45°	677	10	3	6	9	596
55°	6	1	2	4	5	8
65°	1	1	1	2	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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	50.9	50.5	50.5	50.5	50.2	49.6	49.6	49.9	49.9	49.6	49.9
5°	65.9	65.3	64.9	64.6	63.4	63.1	61.9	62.8	61.9	61.0	61.0
7.5°	120.7	120.4	115.2	111.8	106.0	99.3	97.4	97.7	93.4	89.5	87.0
10°	349.2	349.9	334.5	340.7	318.6	309.7	292.9	286.7	271.4	258.6	242.9
11°	467.2	466.6	447.3	453.1	430.7	418.2	399.2	389.4	370.1	357.2	337.6
12°	594.6	575.9	569.5	575.0	552.0	535.5	512.5	500.0	476.1	462.9	439.3
13°	720.8	715.3	693.9	699.1	675.5	639.4	629.9	614.8	587.0	571.3	545.0
14°	830.2	810.0	803.3	806.6	783.3	749.0	739.5	734.9	692.0	675.2	645.8
15°	944.5	920.0	910.5	897.9	884.1	843.4	829.6	820.7	776.3	748.1	729.1
17.5°	1359.9	1325.3	1302.0	1273.5	1243.2	1167.8	1136.6	1106.8	1029.0	991.7	935.3
20°	1951.1	1898.1	1838.4	1776.5	1717.1	1584.1	1506.9	1424.2	1317.9	1229.1	1161.7
21°	2237.3	2173.9	2101.9	2055.3	1943.5	1781.1	1677.0	1559.0	1422.4	1312.4	1227.5
22°	2537.2	2464.9	2404.9	2336.2	2181.2	1987.6	1856.8	1705.5	1528.7	1393.0	1285.8
23°	2828.5	2746.7	2674.7	2591.1	2411.9	2187.6	2032.3	1851.9	1639.0	1470.2	1337.5
24°	3106.7	3021.8	2939.1	2829.1	2623.9	2376.1	2193.5	1987.9	1744.1	1544.3	1386.2
25°	3406.3	3307.1	3200.1	3032.9	2824.2	2543.9	2333.8	2106.2	1837.5	1612.6	1427.3
26°	3704.7	3588.9	3428.7	3258.3	3009.0	2695.3	2455.7	2202.0	1917.1	1667.5	1457.6
27°	3984.7	3860.6	3672.5	3439.4	3174.7	2824.9	2556.2	2278.0	1972.6	1703.0	1471.7
28°	4224.3	4087.6	3878.1	3612.5	3298.2	2920.1	2622.7	2322.7	1999.2	1716.5	1473.5
29°	4382.0	4245.7	4019.9	3724.9	3368.0	2967.3	2649.0	2332.6	1997.7	1708.5	1461.0
30°	4446.4	4308.8	4078.1	3761.7	3381.2	2968.2	2638.3	2312.0	1971.1	1683.4	1436.2
31°	4408.7	4276.7	4042.6	3724.0	3334.6	2925.3	2593.3	2260.3	1918.1	1639.0	1399.1
32°	4269.6	4148.6	3923.7	3620.4	3238.7	2839.3	2515.7	2183.7	1843.3	1581.1	1352.8
33°	4057.6	3956.8	3727.1	3447.4	3110.7	2733.6	2421.4	2105.9	1753.2	1510.3	1303.5
34°	3854.5	3705.6	3501.9	3253.4	2946.5	2596.3	2304.4	1983.3	1657.7	1432.5	1247.2
35°	3565.0	3431.7	3243.6	3031.0	2755.3	2428.7	2136.8	1863.8	1550.7	1357.4	1188.0
36°	3259.6	3142.2	3005.6	2815.1	2551.3	2253.8	1986.7	1717.1	1440.8	1273.8	1125.5
37°	2886.4	2860.1	2733.0	2574.0	2338.4	2063.6	1812.4	1579.2	1337.8	1196.6	1056.9
38°	2666.2	2579.8	2463.4	2323.4	2092.4	1872.4	1644.2	1440.8	1244.4	1124.3	978.8
39°	2385.9	2312.9	2205.7	2079.8	1881.0	1673.3	1487.6	1325.3	1167.2	1051.4	894.5
40°	2116.3	2055.6	1957.3	1849.1	1668.7	1497.7	1352.5	1223.6	1090.6	973.6	811.2
42.5°	1334.5	1304.4	1264.0	1249.3	1184.7	1140.2	1087.2	1012.8	895.8	764.0	650.7
45°	677.0	657.7	657.1	687.1	707.7	709.8	704.9	685.9	609.9	572.3	471.5
47.5°	114.0	108.4	111.8	132.0	160.5	195.1	233.7	281.2	332.1	321.4	247.5
50°	37.7	36.5	35.5	36.5	35.2	36.1	35.5	34.6	31.2	32.8	33.7
51°	23.3	24.8	23.9	24.5	24.2	25.1	25.1	24.8	22.7	21.1	19.3
52°	15.9	16.2	16.5	16.8	16.5	16.8	17.2	17.2	16.5	15.9	14.4
53°	11.3	11.3	11.6	11.6	11.6	11.9	11.9	11.9	11.6	11.6	11.3
54°	8.0	8.3	8.3	8.3	8.3	8.6	8.6	8.6	8.9	8.6	8.6
55°	5.8	5.8	5.8	5.8	5.8	5.8	6.1	6.1	6.4	6.4	6.1
57.5°	2.5	2.5	2.1	2.5	2.5	2.5	2.5	2.8	2.8	3.1	3.1
60°	1.2	1.2	1.2	1.2	0.9	1.2	1.2	1.2	1.2	1.5	1.5



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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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	49.0	49.6	48.7	49.3	48.1	48.1	47.2	47.5	47.2	46.6	46.6
5°	59.4	59.4	57.9	57.9	56.1	55.1	53.6	53.6	52.7	51.2	50.9
7.5°	81.5	78.4	75.1	73.8	70.2	67.7	64.9	63.7	61.0	58.5	56.7
10°	218.1	197.9	178.0	165.7	135.7	114.0	97.7	86.7	78.7	69.2	65.6
11°	307.6	281.8	255.8	230.4	201.0	171.2	152.6	123.2	104.5	83.3	73.2
12°	404.4	374.1	342.5	313.7	278.5	241.1	215.4	178.0	151.6	116.4	91.9
13°	503.6	469.3	431.6	401.6	361.8	318.9	278.5	243.9	211.1	165.1	129.3
14°	599.2	562.8	521.4	489.9	445.1	398.6	352.9	314.6	274.8	220.0	175.8
15°	684.4	658.3	606.0	574.7	526.6	477.0	426.1	385.1	337.9	276.9	226.1
17.5°	862.7	814.6	750.6	719.6	671.8	628.9	573.8	536.7	478.5	414.2	358.1
20°	1072.8	1002.1	915.4	850.1	767.4	692.0	622.5	593.4	557.3	513.4	461.1
21°	1130.4	1054.2	959.5	893.0	808.2	730.6	648.9	602.6	563.1	525.1	481.3
22°	1172.4	1091.8	992.3	923.0	835.7	758.8	675.2	619.7	567.1	524.2	484.6
23°	1207.9	1122.2	1018.6	943.3	852.0	772.6	688.7	633.5	575.3	522.0	479.1
24°	1240.1	1146.1	1037.3	956.4	860.2	777.5	690.5	636.0	579.3	523.2	471.8
25°	1264.3	1161.1	1048.0	963.2	862.1	776.0	686.2	631.4	574.7	519.3	463.5
26°	1280.9	1168.1	1051.1	962.9	858.4	769.9	677.3	621.9	563.7	504.9	450.0
27°	1286.1	1166.3	1046.8	955.8	849.2	757.9	662.3	603.8	546.5	487.7	432.0
28°	1280.9	1158.9	1037.0	942.0	833.9	738.3	638.1	579.9	528.1	468.7	409.9
29°	1266.5	1145.8	1018.9	921.5	809.7	706.4	607.2	556.9	507.0	439.9	372.8
30°	1244.1	1121.9	992.9	891.5	773.8	666.3	579.3	535.8	472.1	393.4	321.1
31°	1212.8	1090.9	959.2	851.7	726.1	627.1	555.1	496.3	417.6	331.8	257.9
32°	1174.9	1054.2	910.2	798.7	678.9	596.2	512.2	435.9	348.6	258.9	188.1
33°	1134.1	1007.0	854.1	742.9	638.4	554.8	450.3	361.5	271.4	182.0	118.6
34°	1086.9	949.1	791.3	686.8	593.1	492.6	376.8	280.9	193.6	110.6	61.0
35°	1030.0	877.7	728.8	638.4	528.1	410.2	296.2	210.5	121.3	55.8	33.1
36°	961.0	804.2	674.6	576.2	452.2	329.3	213.8	134.2	65.3	32.8	26.0
37°	873.4	743.8	617.6	502.1	370.1	247.2	137.9	72.9	37.4	26.7	22.1
38°	797.7	688.1	556.6	421.2	285.2	169.4	83.6	41.1	29.4	22.4	18.4
39°	732.5	628.3	476.7	336.1	203.4	102.6	46.0	31.2	24.5	18.4	15.6
40°	675.5	543.2	392.1	252.1	130.8	57.0	33.1	26.0	19.9	15.3	12.6
42.5°	495.7	344.6	181.7	81.5	38.3	28.5	20.8	16.5	12.9	9.5	8.0
45°	294.4	155.0	54.8	33.4	24.2	18.1	13.2	10.4	8.0	5.8	4.9
47.5°	107.5	39.2	27.0	20.2	15.3	11.3	8.3	6.4	4.9	3.4	2.8
50°	22.1	19.0	14.7	11.9	8.9	6.7	4.9	3.7	2.8	2.1	1.8
51°	16.8	14.7	11.9	9.5	7.0	5.5	4.0	3.1	2.5	1.8	1.5
52°	12.9	11.3	9.2	7.7	5.8	4.3	3.1	2.5	1.8	1.2	1.2
53°	10.1	8.9	7.0	5.8	4.6	3.4	2.5	1.8	1.5	1.2	1.2
54°	7.7	6.7	5.5	4.6	3.7	2.8	1.8	1.5	1.2	1.2	0.9
55°	5.5	5.2	4.3	3.4	2.8	2.1	1.5	1.2	1.2	0.9	0.9
57.5°	2.8	2.5	2.1	1.8	1.5	1.2	0.9	0.9	0.9	0.9	0.6
60°	1.5	1.2	1.2	1.2	0.9	0.9	0.9	0.6	0.6	0.9	0.9



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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°	0.6	0.6	0.6	0.6	0.9	0.6	0.6	0.6	0.9	0.9	0.9
64°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
65°	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
66°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
75°	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
77.5°	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
80°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
82.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
85°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
87.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
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: P208816

CATALOG NUMBER: LDSQA6A10927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	45.6	46.3	45.6	45.0	44.7	44.7	44.4	43.5	43.8	43.5	43.5
5°	49.3	49.6	48.4	47.5	46.9	46.3	45.6	44.4	44.1	43.8	43.5
7.5°	54.2	53.9	51.5	49.9	48.4	47.2	46.0	44.4	43.8	42.9	42.3
10°	61.3	59.1	55.1	52.4	50.2	47.8	46.0	43.5	42.3	41.1	40.1
11°	64.3	61.3	57.3	53.6	50.9	48.1	46.0	42.9	41.4	40.1	38.9
12°	73.8	65.6	59.1	55.1	51.5	48.4	45.6	42.6	40.7	38.9	37.7
13°	95.6	76.3	63.1	56.1	52.4	48.7	45.3	42.0	39.8	37.7	36.5
14°	131.1	98.0	72.9	59.4	52.7	48.7	45.0	41.4	38.9	36.8	35.2
15°	173.7	131.7	92.8	67.7	53.9	48.4	44.4	40.4	37.7	35.2	33.7
17.5°	292.6	237.7	178.3	126.8	78.4	53.0	42.0	37.4	34.0	31.2	29.4
20°	392.1	329.0	261.9	197.9	135.7	84.6	48.4	34.0	30.0	27.0	25.1
21°	413.9	354.8	283.7	216.6	152.3	98.0	54.8	34.0	28.5	25.4	23.6
22°	425.2	368.2	297.2	228.8	163.6	107.5	61.6	34.3	27.0	23.9	21.8
23°	423.4	371.3	302.4	232.5	168.8	112.1	64.3	34.6	25.4	22.4	20.2
24°	412.3	363.0	297.2	228.2	167.3	110.9	63.4	34.0	23.9	20.8	19.0
25°	398.6	346.8	283.1	216.6	157.5	103.2	58.8	31.9	22.7	19.6	17.8
26°	382.9	330.6	263.5	196.1	141.5	90.4	49.6	28.2	20.8	18.1	16.5
27°	364.3	309.4	239.3	174.3	119.5	72.9	39.8	23.9	19.3	16.5	15.3
28°	336.4	279.4	208.3	145.5	95.6	55.1	30.0	20.5	17.8	15.3	14.1
29°	294.7	237.1	169.7	113.7	70.2	38.0	23.0	18.4	15.9	13.8	12.9
30°	242.6	187.5	125.9	78.1	45.0	25.7	18.7	16.2	14.1	12.6	11.9
31°	183.8	133.3	81.5	45.0	27.0	19.0	16.5	14.1	12.6	11.3	11.0
32°	121.3	80.6	43.2	26.0	19.6	16.5	14.4	12.6	11.3	10.4	10.1
33°	64.9	37.1	24.8	19.6	16.5	14.4	12.6	11.0	10.1	9.5	9.2
34°	33.1	24.2	20.2	16.8	14.1	12.6	11.0	9.8	9.2	8.6	8.3
35°	24.5	20.8	17.5	14.4	12.3	11.0	9.8	8.9	8.3	7.7	7.7
36°	20.8	17.5	14.4	12.6	11.0	9.8	8.9	7.7	7.4	7.0	6.7
37°	17.5	15.0	12.6	10.7	9.5	8.6	7.7	7.0	6.4	6.1	6.1
38°	14.7	12.9	10.7	9.2	8.3	7.7	6.7	6.1	5.8	5.5	5.5
39°	12.3	10.7	9.2	8.0	7.0	6.4	5.8	5.5	5.2	4.9	4.9
40°	10.1	9.2	7.7	6.7	6.1	5.5	5.2	4.9	4.6	4.3	4.6
42.5°	6.4	5.5	4.9	4.6	4.0	4.0	3.7	3.4	3.4	3.4	3.4
45°	3.7	3.4	3.1	3.1	2.8	2.8	2.8	2.5	2.8	2.8	2.8
47.5°	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1
50°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5
51°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5
52°	1.2	1.2	1.2	0.9	0.9	0.9	0.9	0.9	1.2	1.2	1.2
53°	0.9	1.2	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2	1.2
54°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2



TEST NUMBER: P208816

CATALOG NUMBER: LDSQA6A10927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	0.9	0.9	0.9	0.9	0.9	1.2	0.9	0.9	0.9	1.2	1.2
64°	0.9	0.9	0.9	0.9	0.9	1.2	0.9	0.9	0.9	0.9	1.2
65°	0.9	0.9	1.2	1.2	1.2	1.2	0.9	0.9	0.9	0.9	1.2
66°	0.9	0.9	1.2	1.2	1.2	1.2	1.2	0.9	0.9	1.2	1.2
67.5°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	0.9	1.2	1.2	1.2
70°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: P208816

CATALOG NUMBER: LDSQA6A10927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	42.6	42.3	42.0	42.0	39.5	38.3	36.8	36.8
5°	42.0	41.7	41.1	40.4	36.5	34.6	32.8	32.5
7.5°	40.7	39.8	38.9	38.3	33.4	31.2	29.4	29.1
10°	38.3	37.1	36.1	35.5	30.3	28.2	26.7	26.7
11°	37.1	35.8	34.9	34.0	28.8	27.0	25.7	25.7
12°	35.8	34.6	33.4	32.8	27.6	26.0	24.8	24.5
13°	34.6	33.1	32.2	31.2	26.3	24.8	23.9	23.9
14°	33.4	31.9	30.6	29.7	25.1	23.6	23.0	23.0
15°	31.6	30.0	29.1	28.2	23.6	22.7	22.1	22.4
17.5°	27.3	26.0	25.1	24.2	20.5	20.2	20.2	20.5
20°	23.3	22.1	21.1	20.5	17.8	18.1	18.4	19.0
21°	21.8	20.5	19.6	19.0	16.8	17.2	17.8	18.4
22°	20.2	19.3	18.4	17.8	15.9	16.2	17.2	17.8
23°	18.7	17.8	17.2	16.5	15.0	15.6	16.5	17.2
24°	17.5	16.5	15.9	15.3	14.1	14.7	15.9	16.5
25°	16.2	15.3	14.7	14.4	13.2	14.1	15.3	15.9
26°	15.0	14.4	13.8	13.5	12.6	13.5	14.7	15.6
27°	13.8	13.2	12.9	12.6	11.6	12.9	14.1	15.0
28°	12.9	12.3	11.9	11.6	11.0	12.3	13.8	14.4
29°	11.9	11.3	11.0	10.7	10.4	11.6	13.2	14.1
30°	11.0	10.7	10.1	10.1	9.8	11.3	12.6	13.5
31°	10.1	9.8	9.5	9.2	9.2	10.7	12.3	13.2
32°	9.5	9.2	8.9	8.6	8.9	10.1	11.6	12.9
33°	8.6	8.3	8.3	8.0	8.3	9.8	11.3	12.6
34°	7.7	7.7	7.4	7.4	8.0	9.5	11.0	11.9
35°	7.0	6.7	6.7	6.7	7.7	8.9	10.7	11.6
36°	6.4	6.4	6.1	6.1	7.4	8.6	10.4	11.3
37°	5.8	5.8	5.8	5.5	6.7	8.3	9.8	11.0
38°	5.2	5.2	5.2	5.2	6.4	8.0	9.8	11.0
39°	4.6	4.6	4.9	4.9	6.1	7.7	9.2	10.7
40°	4.3	4.3	4.3	4.3	5.8	7.4	8.9	10.4
42.5°	3.4	3.4	3.7	3.7	5.2	6.7	8.3	9.5
45°	2.8	2.8	3.1	3.1	4.6	6.1	7.4	8.9
47.5°	2.1	2.1	2.5	2.5	4.0	5.5	6.7	8.0
50°	1.5	1.8	1.8	2.1	3.7	4.9	5.8	7.0
51°	1.5	1.5	1.8	1.8	3.4	4.6	5.5	6.7
52°	1.5	1.5	1.8	1.8	3.1	4.3	5.2	6.1
53°	1.2	1.5	1.5	1.8	3.1	4.3	4.9	5.8
54°	1.2	1.2	1.5	1.5	3.1	4.0	4.9	5.2
55°	1.2	1.2	1.5	1.5	2.8	4.0	4.6	4.9
57.5°	1.2	1.2	1.2	1.2	2.5	3.4	4.0	4.0
60°	1.2	1.2	1.2	1.2	2.5	3.1	3.7	2.8



TEST NUMBER: P208816

CATALOG NUMBER: LDSQA6A10927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.2	1.2	1.2	1.2	2.1	2.8	2.8	2.1
64°	1.2	1.2	1.2	1.2	2.1	2.8	2.8	2.1
65°	1.2	1.2	1.2	1.2	2.1	2.5	2.5	1.8
66°	1.2	1.2	1.2	1.2	2.1	2.5	2.5	1.8
67.5°	1.2	1.2	1.2	1.2	1.8	2.1	2.1	1.8
70°	1.2	1.2	1.2	1.2	1.8	2.1	1.8	1.5
72.5°	1.2	1.2	1.2	1.2	1.8	1.8	1.5	1.2
75°	1.2	1.2	1.2	1.2	1.5	1.5	1.2	1.2
77.5°	1.2	1.2	1.2	1.2	1.5	1.5	1.2	0.9
80°	1.2	1.2	1.2	1.2	1.5	1.2	0.9	0.6
82.5°	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6
85°	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.3
87.5°	1.2	1.2	1.2	1.2	1.2	0.9	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°	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2
62°	0.9	0.9	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6





61°	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.9	0.9
62°	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6	0.9	0.9





61°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2
62°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9





61°	1.2	1.2	1.2	1.2	2.1	3.1	3.4	2.5
62°	1.2	1.2	1.2	1.2	2.1	2.8	3.1	2.1



(END OF REPORT)