

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: P208872

Luminaire Tested: **LDSQA6A30927D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29056)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A30927D010TE LARL20NF 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 20° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2093.5 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.63 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

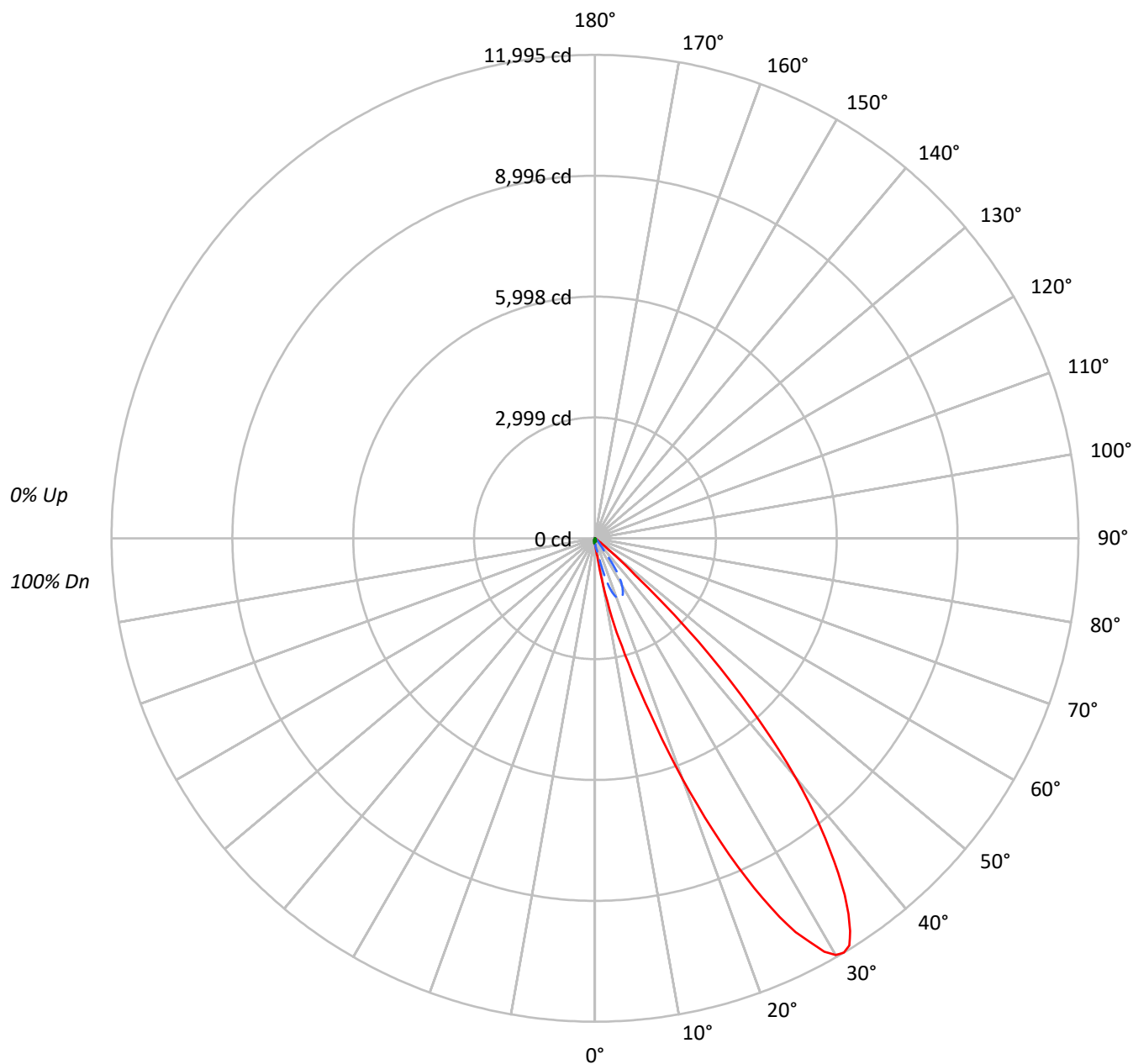
Input Watts (W): 44.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104	110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91	103	98	94	90		95	91	88		92	89	86		89	86	84
3	99	91	85	80	96	89	84	80		87	82	78		84	80	77		82	79	76
4	92	83	76	71	90	82	75	71		79	74	70		77	73	69		75	71	68
5	86	76	69	63	84	75	68	63		73	67	62		71	66	62		69	65	61
6	80	69	62	57	78	68	61	56		67	61	56		65	60	56		64	59	55
7	75	63	56	51	73	63	56	51		61	55	50		60	54	50		59	54	50
8	70	58	51	46	68	57	50	46		56	50	45		55	49	45		54	49	45
9	65	53	46	41	64	53	46	41		52	45	41		51	45	41		50	44	41
10	61	49	42	37	60	48	42	37		48	41	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6079	6079	6079
5°	12132	5891	3985
10°	54562	5155	2982
15°	143040	4217	2394
20°	291234	3198	2021
25°	468620	2361	1715
30°	593574	1675	1516
35°	567803	1099	1351
40°	435371	674	1265
45°	221426	438	1169
50°	33954	322	1018
55°	4459	300	721
60°	482	276	482
65°	82	326	408
70°	101	504	504
75°	0	665	399
80°	0	793	397
85°	0	1581	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	0.9
10°-20°	207.0	9.9
20°-30°	677.8	32.4
30°-40°	825.0	39.4
40°-50°	335.2	16.0
50°-60°	19.9	1.0
60°-70°	3.9	0.2
70°-80°	3.4	0.2
80°-90°	2.4	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°	903.6	43.2
0°-40°	1728.7	82.6
0°-60°	2083.7	99.5
0°-90°	2093.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	141	141	141	141	141	
5°	281	214	136	101	92	53
15°	3209	1070	95	58	54	1044
25°	9864	1592	50	34	36	4533
35°	10803	636	21	20	26	6534
45°	3636	72	7	13	19	2790
55°	59	7	4	9	10	102
65°	1	2	3	6	4	1
75°	0	2	4	5	2	0
85°	0	2	3	3	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°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
2.5°	198.9	190.1	194.1	193.3	190.1	190.9	192.5	189.3	190.9	186.1	186.9
5°	280.7	267.9	275.1	267.1	271.1	267.1	267.1	262.3	258.3	257.5	253.4
7.5°	490.0	458.8	468.4	433.9	439.5	428.3	417.9	406.6	387.4	377.8	356.9
10°	1248.0	1159.8	1180.6	1105.2	1103.6	1077.1	1028.2	994.5	923.2	872.6	800.4
11°	1578.4	1518.3	1536.7	1454.1	1450.1	1414.0	1356.3	1266.4	1226.3	1159.0	1069.1
12°	2009.9	1908.9	1920.1	1829.5	1820.6	1772.5	1707.6	1596.9	1548.7	1466.9	1361.1
13°	2402.1	2312.3	2313.1	2214.4	2204.0	2143.1	2071.7	1937.7	1884.0	1792.6	1665.0
14°	2762.2	2694.1	2680.4	2627.5	2571.4	2500.0	2424.6	2273.0	2213.6	2111.0	1965.0
15°	3209.0	3075.8	3049.4	2982.8	2914.6	2824.8	2732.6	2559.3	2493.6	2380.5	2235.3
17.5°	4526.7	4362.3	4290.1	4154.6	4026.3	3853.8	3654.1	3346.9	3195.3	2992.4	2765.4
20°	6356.2	6097.1	5952.0	5734.6	5527.7	5245.4	4900.5	4416.9	4192.3	3799.3	3427.1
21°	7080.4	6857.5	6675.4	6430.8	6186.2	5851.7	5441.9	4930.2	4583.7	4124.1	3687.8
22°	7811.9	7600.2	7387.6	7118.9	6845.4	6454.8	5982.4	5388.9	4972.7	4436.1	3933.2
23°	8532.1	8317.2	8153.6	7785.4	7474.2	7033.9	6510.2	5831.7	5348.0	4732.9	4164.2
24°	9223.5	8988.5	8784.8	8413.4	8061.3	7571.3	7007.5	6261.6	5710.6	5016.0	4378.4
25°	9864.3	9605.3	9355.0	8973.3	8590.7	8055.7	7446.2	6650.5	6041.0	5272.6	4573.3
26°	10453.8	10100.1	9828.2	9475.3	9040.6	8479.2	7832.0	6986.6	6325.7	5486.8	4726.4
27°	10964.7	10607.0	10295.0	9917.3	9432.0	8827.3	8150.4	7228.0	6551.1	5647.2	4833.1
28°	11336.1	11033.7	10674.4	10267.8	9734.4	9067.1	8366.1	7420.5	6686.6	5730.6	4877.2
29°	11729.9	11385.8	10967.1	10505.2	9924.5	9217.9	8484.8	7520.8	6742.8	5749.9	4868.4
30°	11939.2	11622.4	11130.0	10626.3	10006.3	9266.0	8510.5	7536.0	6725.1	5703.3	4810.7
31°	11995.4	11699.4	11154.0	10628.7	9980.6	9218.7	8447.1	7457.4	6629.7	5595.1	4703.2
32°	11914.4	11618.4	11052.2	10526.0	9862.7	9086.4	8307.6	7317.0	6474.1	5433.0	4550.0
33°	11623.2	11383.4	10837.2	10331.1	9683.1	8889.9	8102.2	7088.5	6231.9	5222.9	4365.5
34°	11251.1	11027.3	10523.6	10004.7	9398.3	8620.4	7819.1	6811.8	5953.6	4964.7	4146.6
35°	10802.7	10582.2	10117.8	9602.1	9021.4	8261.9	7456.6	6464.5	5624.7	4672.7	3903.5
36°	10274.2	10044.8	9615.7	9124.9	8596.3	7828.7	7027.5	6065.1	5251.0	4355.1	3643.7
37°	9692.7	9461.7	9078.3	8623.6	8100.6	7341.1	6547.1	5624.7	4856.4	4025.5	3371.8
38°	9079.1	8864.2	8516.1	8062.1	7544.8	6798.9	6021.7	5222.1	4454.6	3691.8	3096.7
39°	8449.5	8223.4	7895.3	7449.4	6940.9	6204.6	5473.9	4759.3	4108.1	3363.8	2844.0
40°	7746.1	7532.8	7152.6	6802.9	6292.8	5591.8	4925.4	4248.4	3723.1	3048.6	2614.7
42.5°	5729.8	5563.0	5360.1	5001.5	4624.6	4121.7	3655.7	3186.5	2804.7	2422.2	2103.8
45°	3636.5	3513.8	3409.5	3186.5	3034.1	2751.0	2510.4	2270.6	2090.1	1889.6	1535.9
47.5°	1345.8	1288.1	1251.2	1153.3	1144.5	1053.9	1045.1	1160.6	1228.7	1156.5	870.2
50°	506.9	492.5	483.6	453.2	432.3	390.6	359.3	336.1	288.7	255.9	229.4
51°	332.8	322.4	307.2	304.8	296.0	272.7	258.3	253.4	221.4	186.9	160.4
52°	211.7	205.3	195.7	196.5	191.7	177.3	172.4	179.7	162.8	143.6	124.3
53°	133.1	129.9	123.5	123.5	122.7	113.1	111.5	117.9	114.7	105.9	94.6
54°	86.6	85.8	80.2	81.0	81.0	75.4	74.6	77.0	76.2	73.0	67.4
55°	59.4	58.5	57.7	55.3	53.7	52.1	52.1	52.9	52.1	50.5	47.3
57.5°	20.9	20.1	20.9	20.1	20.1	20.9	20.1	21.7	22.5	22.5	20.9
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.2	8.0	8.0	8.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	1.6	1.6	1.6
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	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	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
2.5°	184.5	185.3	182.1	181.3	180.5	176.4	174.0	171.6	169.2	165.2	166.8
5°	247.0	247.0	239.8	235.0	232.6	223.8	219.8	214.1	207.7	202.9	200.5
7.5°	344.9	339.3	323.2	311.2	304.0	286.3	275.9	260.7	251.8	242.2	236.6
10°	731.5	693.8	615.2	559.0	506.1	441.9	383.4	337.7	308.0	286.3	272.7
11°	985.7	936.0	835.7	757.9	689.0	597.5	507.7	421.9	360.1	322.4	294.4
12°	1264.8	1200.7	1080.4	984.1	899.9	785.2	670.5	557.4	468.4	397.8	340.1
13°	1555.2	1472.6	1333.0	1222.3	1125.3	992.9	856.6	721.0	612.8	516.5	429.1
14°	1843.1	1742.0	1588.8	1461.3	1352.2	1204.7	1049.9	899.1	772.4	651.3	544.6
15°	2104.6	1993.9	1859.1	1692.3	1574.4	1385.1	1239.2	1069.9	925.6	785.2	660.9
17.5°	2573.8	2424.6	2265.8	2093.3	1981.0	1794.2	1608.9	1404.4	1229.5	1055.5	888.7
20°	3089.5	2823.2	2561.7	2305.1	2142.3	1943.4	1762.1	1560.0	1375.5	1178.2	996.9
21°	3292.4	2987.6	2669.2	2381.3	2196.8	1984.3	1796.6	1587.2	1393.1	1183.0	992.1
22°	3484.9	3120.8	2763.0	2445.4	2244.1	2026.8	1824.6	1604.9	1398.0	1177.4	977.7
23°	3660.5	3249.1	2849.7	2501.6	2278.6	2047.6	1839.1	1612.1	1395.6	1164.6	956.0
24°	3820.1	3367.0	2923.4	2543.3	2299.5	2054.0	1837.5	1606.5	1383.5	1145.3	926.4
25°	3958.1	3460.0	2977.2	2565.7	2305.1	2050.8	1829.5	1592.1	1359.5	1112.4	891.9
26°	4062.4	3519.4	3002.9	2568.9	2297.1	2040.4	1811.0	1565.6	1321.8	1068.3	845.4
27°	4122.5	3541.0	3002.9	2555.3	2281.0	2021.2	1781.3	1524.7	1272.8	1013.8	787.6
28°	4132.9	3531.4	2981.2	2527.2	2250.5	1987.5	1738.0	1472.6	1215.1	948.8	724.2
29°	4105.7	3492.9	2934.7	2479.1	2205.6	1944.2	1681.9	1406.8	1146.1	877.4	658.5
30°	4038.3	3422.3	2865.7	2418.2	2151.9	1887.2	1611.3	1333.8	1068.3	803.6	583.1
31°	3933.2	3320.5	2777.5	2344.4	2085.3	1819.0	1533.5	1249.6	980.9	712.2	501.3
32°	3793.7	3177.7	2679.6	2260.2	2011.5	1741.2	1436.5	1142.1	865.4	600.7	406.6
33°	3629.2	3038.1	2570.6	2169.5	1931.3	1634.6	1302.5	981.7	724.2	476.4	308.0
34°	3441.6	2888.2	2453.5	2074.1	1826.3	1478.2	1135.7	816.5	569.5	348.1	217.4
35°	3233.8	2728.6	2330.7	1961.8	1660.2	1287.3	944.8	636.0	412.3	235.8	163.6
36°	3012.5	2549.7	2190.4	1801.4	1461.3	1073.1	742.7	458.0	273.5	175.6	141.2
37°	2803.9	2394.1	2045.2	1600.1	1236.8	849.4	542.2	305.6	199.7	153.2	125.1
38°	2607.4	2244.1	1855.9	1377.1	1005.8	636.8	356.9	225.4	173.2	134.7	110.7
39°	2423.8	2093.3	1634.6	1138.1	774.8	449.1	259.1	193.3	150.8	119.5	97.8
40°	2246.5	1877.6	1393.1	928.0	564.6	313.6	218.2	170.8	133.1	105.1	82.6
42.5°	1685.1	1206.3	771.6	422.7	265.5	204.5	155.6	120.3	88.2	65.0	49.7
45°	1057.9	613.6	331.2	237.4	185.3	138.8	101.1	72.2	52.9	39.3	31.3
47.5°	481.2	263.9	205.3	158.8	119.5	82.6	59.4	43.3	32.1	24.9	18.4
50°	176.4	150.0	121.9	90.6	65.8	47.3	34.5	25.7	19.2	14.4	10.4
51°	138.0	120.3	97.0	68.2	52.1	38.5	28.1	20.9	15.2	11.2	8.0
52°	108.3	95.4	74.6	52.9	40.9	30.5	22.5	16.0	11.2	8.8	6.4
53°	83.4	73.0	56.1	40.9	32.1	24.1	17.6	12.8	8.8	6.4	4.8
54°	61.8	53.7	41.7	31.3	24.9	18.4	12.8	9.6	6.4	4.8	4.0
55°	44.1	39.3	31.3	24.9	19.2	14.4	9.6	7.2	4.8	3.2	3.2
57.5°	18.4	17.6	14.4	12.0	9.6	7.2	4.8	3.2	3.2	2.4	3.2
60°	7.2	7.2	6.4	4.8	4.0	3.2	2.4	2.4	2.4	2.4	2.4



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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°	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2
64°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.2
65°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2
66°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2
67.5°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2
70°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2
72.5°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
75°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
77.5°	0.8	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2	3.2
80°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
82.5°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
85°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
87.5°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
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: P208872

CATALOG NUMBER: LDSQA6A30927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
2.5°	164.4	164.4	158.8	157.2	156.4	154.8	150.8	150.8	148.4	145.2	143.6
5°	194.9	193.3	184.5	179.7	175.6	170.8	162.8	159.6	154.8	150.0	146.0
7.5°	224.6	219.0	205.3	198.1	192.5	184.5	174.0	166.8	158.8	150.8	145.2
10°	254.2	243.0	223.8	211.7	201.3	190.1	177.3	169.2	158.8	148.4	140.4
11°	266.3	251.8	230.2	214.9	202.9	190.1	177.3	166.8	157.2	146.8	138.0
12°	289.5	262.3	236.6	219.8	204.5	190.1	175.6	164.4	154.0	143.6	134.7
13°	336.9	286.3	243.8	223.8	206.9	190.1	174.0	162.0	150.8	140.4	130.7
14°	422.7	336.1	263.1	227.8	207.7	190.1	172.4	158.0	146.8	135.5	126.7
15°	519.7	412.3	302.4	242.2	208.5	188.5	169.2	154.0	142.0	130.7	121.9
17.5°	721.0	576.7	428.3	314.4	228.6	183.7	157.2	142.0	128.3	117.1	106.7
20°	802.8	635.2	468.4	336.9	236.6	175.6	143.6	127.5	113.1	101.9	93.0
21°	792.4	624.0	456.4	321.6	221.4	164.4	136.3	121.1	107.5	95.4	87.4
22°	770.8	597.5	428.3	293.5	202.9	153.2	129.9	113.9	101.1	89.8	81.8
23°	741.9	559.8	396.2	263.9	183.7	142.8	123.5	107.5	95.4	84.2	77.0
24°	705.8	522.1	359.3	234.2	165.2	134.7	116.3	101.1	89.0	79.4	72.2
25°	665.7	482.8	320.0	209.3	154.0	126.7	108.3	93.8	83.4	74.6	67.4
26°	616.8	436.3	283.1	186.1	140.4	117.9	100.3	87.4	77.8	69.8	62.6
27°	560.6	388.2	242.2	162.0	129.1	109.1	93.0	81.8	73.0	65.0	57.7
28°	510.1	334.5	207.7	144.4	120.3	100.3	86.6	76.2	68.2	60.2	53.7
29°	446.7	283.1	177.3	130.7	110.7	93.8	80.2	70.6	62.6	54.5	48.9
30°	383.4	234.2	151.6	119.5	101.1	85.8	73.8	65.0	56.9	50.5	45.7
31°	317.6	194.1	133.1	109.9	92.2	79.4	68.2	60.2	52.1	46.5	41.7
32°	243.0	158.8	118.7	99.5	84.2	71.4	62.6	54.5	47.3	42.5	37.7
33°	182.9	133.9	107.5	89.8	76.2	65.8	56.9	48.9	43.3	38.5	34.5
34°	146.0	119.5	97.0	81.0	69.0	59.4	50.5	44.1	38.5	34.5	30.5
35°	128.3	107.5	86.6	73.0	61.8	52.1	44.9	39.3	34.5	30.5	27.3
36°	113.9	96.2	77.0	65.0	53.7	45.7	39.3	34.5	29.7	26.5	24.1
37°	101.9	85.0	68.2	56.1	46.5	40.1	34.5	29.7	25.7	23.3	21.7
38°	91.4	73.0	57.7	48.1	40.1	34.5	29.7	25.7	22.5	20.1	18.4
39°	77.8	61.8	48.1	40.9	33.7	28.9	24.9	22.5	19.2	17.6	16.0
40°	65.0	51.3	40.1	33.7	28.9	24.1	21.7	18.4	16.8	15.2	13.6
42.5°	40.1	32.1	25.7	21.7	18.4	16.0	14.4	12.8	11.2	10.4	9.6
45°	24.9	20.1	16.0	13.6	11.2	10.4	9.6	8.0	8.0	7.2	7.2
47.5°	14.4	12.0	8.8	8.0	6.4	6.4	5.6	5.6	4.8	5.6	4.8
50°	8.0	5.6	4.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
51°	6.4	4.8	4.0	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.0
52°	4.8	4.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
53°	4.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
54°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
55°	3.2	3.2	3.2	3.2	3.2	2.4	3.2	3.2	3.2	3.2	3.2
57.5°	3.2	3.2	2.4	2.4	3.2	2.4	3.2	3.2	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



TEST NUMBER: P208872

CATALOG NUMBER: LDSQA6A30927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
64°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
66°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	3.2	4.0	4.0	4.0	4.0	3.2	3.2	3.2	3.2
72.5°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.2
75°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P208872

CATALOG NUMBER: LDSQA6A30927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
2.5°	142.8	142.8	142.0	140.4	128.3	117.9	111.5	110.7
5°	143.6	142.0	138.8	136.3	114.7	101.1	93.0	92.2
7.5°	140.4	137.1	133.1	128.3	101.9	87.4	80.2	78.6
10°	134.7	129.1	124.3	117.9	89.8	76.2	69.8	68.2
11°	130.7	125.1	120.3	113.9	85.0	72.2	65.8	65.0
12°	127.5	121.1	114.7	109.1	80.2	68.2	62.6	61.8
13°	122.7	116.3	110.7	104.3	76.2	65.0	59.4	58.5
14°	118.7	111.5	105.9	100.3	72.2	61.0	56.9	56.1
15°	113.9	106.7	100.3	94.6	68.2	57.7	54.5	53.7
17.5°	101.1	93.0	87.4	81.8	58.5	50.5	48.1	48.9
20°	85.8	79.4	74.6	69.8	49.7	44.1	43.3	44.1
21°	80.2	74.6	70.6	65.8	46.5	41.7	41.7	42.5
22°	75.4	69.8	65.8	61.0	44.1	39.3	39.3	40.9
23°	70.6	65.0	61.0	56.9	40.9	37.7	37.7	39.3
24°	65.8	61.0	56.9	52.9	38.5	35.3	36.1	37.7
25°	61.0	56.9	52.9	49.7	36.1	33.7	34.5	36.1
26°	57.7	52.9	49.7	45.7	33.7	32.1	32.9	35.3
27°	52.9	48.9	45.7	42.5	32.1	30.5	32.1	33.7
28°	49.7	45.7	42.5	39.3	29.7	28.9	30.5	32.9
29°	45.7	42.5	39.3	36.9	28.1	27.3	29.7	31.3
30°	41.7	38.5	36.1	33.7	26.5	25.7	28.1	30.5
31°	38.5	36.1	33.7	31.3	24.9	24.9	27.3	29.7
32°	35.3	32.9	30.5	28.1	23.3	23.3	26.5	28.1
33°	32.1	29.7	27.3	25.7	21.7	22.5	24.9	27.3
34°	28.1	26.5	24.9	23.3	20.1	20.9	24.1	26.5
35°	25.7	24.1	22.5	20.9	19.2	20.1	23.3	25.7
36°	22.5	21.7	20.1	19.2	17.6	19.2	22.5	24.9
37°	20.1	19.2	17.6	16.8	16.8	18.4	21.7	24.1
38°	17.6	16.8	16.0	15.2	16.0	17.6	20.9	23.3
39°	15.2	14.4	14.4	13.6	15.2	16.8	20.1	22.5
40°	13.6	12.8	12.8	12.0	14.4	16.0	19.2	22.5
42.5°	9.6	9.6	9.6	9.6	12.0	14.4	17.6	20.9
45°	7.2	7.2	7.2	7.2	10.4	12.8	15.2	19.2
47.5°	5.6	5.6	5.6	5.6	9.6	12.0	14.4	16.8
50°	4.0	4.0	4.8	4.8	8.8	10.4	12.8	15.2
51°	4.0	4.0	4.0	4.8	8.0	10.4	12.0	14.4
52°	4.0	4.0	4.0	4.0	8.0	9.6	11.2	12.8
53°	3.2	4.0	4.0	4.0	7.2	9.6	10.4	12.0
54°	3.2	3.2	3.2	4.0	7.2	8.8	9.6	11.2
55°	3.2	3.2	3.2	4.0	6.4	8.8	9.6	9.6
57.5°	3.2	3.2	3.2	3.2	6.4	8.0	8.8	8.0
60°	3.2	3.2	3.2	3.2	5.6	7.2	8.0	5.6



TEST NUMBER: P208872

CATALOG NUMBER: LDSQA6A30927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	3.2	3.2	3.2	3.2	5.6	6.4	6.4	4.8
64°	3.2	3.2	3.2	3.2	5.6	6.4	6.4	4.8
65°	3.2	3.2	3.2	3.2	5.6	5.6	5.6	4.0
66°	3.2	3.2	3.2	3.2	5.6	5.6	5.6	4.0
67.5°	3.2	3.2	3.2	3.2	5.6	5.6	4.8	4.0
70°	3.2	3.2	3.2	4.0	4.8	4.8	4.8	4.0
72.5°	3.2	3.2	3.2	4.0	4.8	4.8	4.0	3.2
75°	4.0	4.0	4.0	4.0	4.8	4.8	4.0	2.4
77.5°	4.0	4.0	4.0	4.0	4.8	4.0	3.2	2.4
80°	4.0	4.0	3.2	3.2	4.0	4.0	2.4	1.6
82.5°	4.0	4.0	3.2	3.2	4.0	3.2	2.4	1.6
85°	4.0	4.0	3.2	3.2	4.0	3.2	1.6	0.8
87.5°	4.0	3.2	3.2	3.2	4.0	3.2	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°	2.4	2.4	2.4	2.4	3.2	2.4	3.2	4.0	4.8	4.8	4.8
62°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2





61°	4.8	4.8	4.0	4.0	3.2	2.4	2.4	2.4	2.4	2.4	2.4
62°	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2





61°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
62°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2





61°	3.2	3.2	3.2	3.2	5.6	7.2	7.2	5.6
62°	3.2	3.2	3.2	3.2	5.6	6.4	7.2	4.8



(END OF REPORT)