

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: P208856

Luminaire Tested: **LDSQA6A15927D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208856
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: LDSQA6A15927D010TE 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: 1242.1 lumens
Efficiency: N/A
Efficacy: 57.0 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

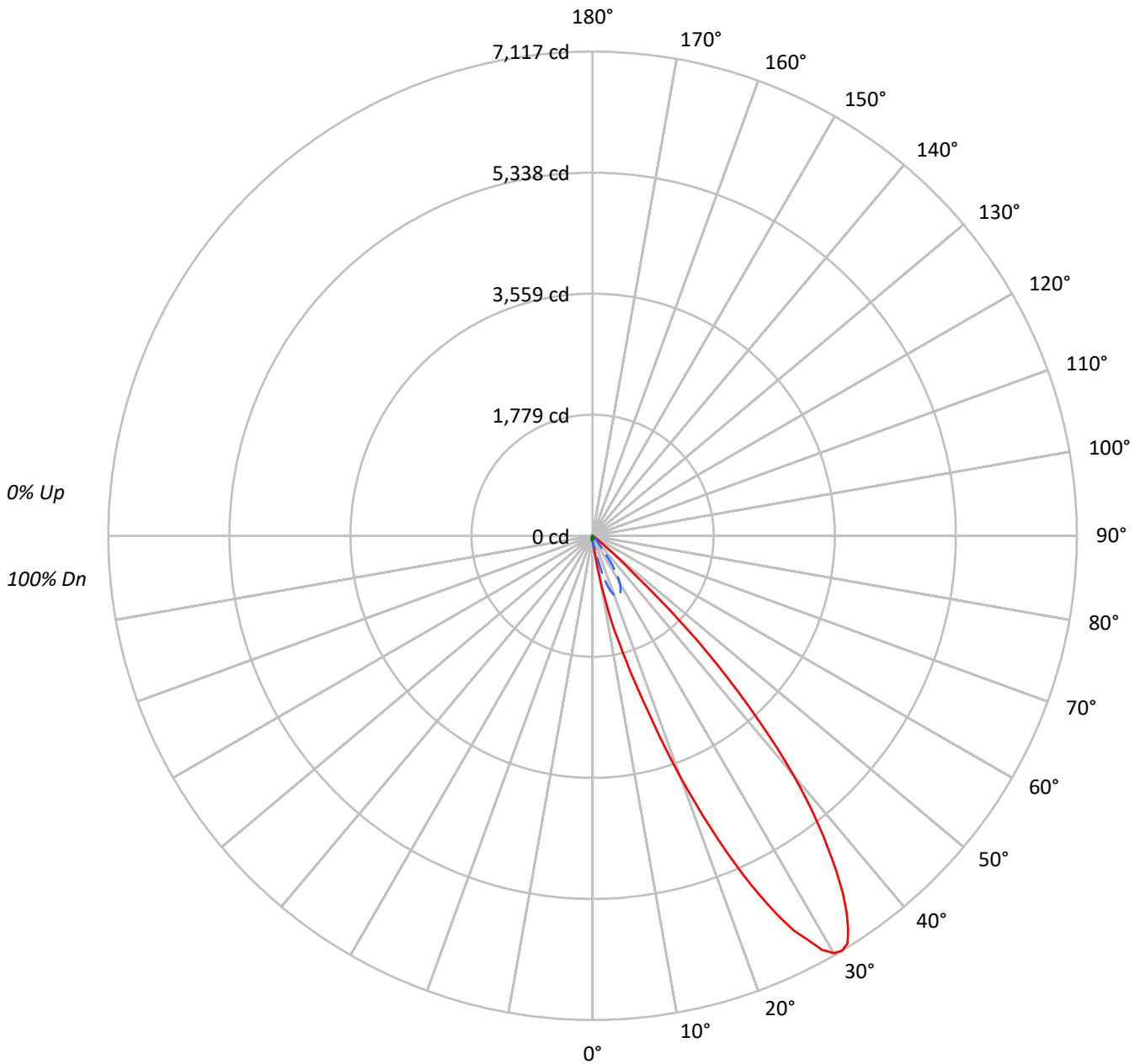
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	79	76	74				74
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60				60
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3604	3604	3604
5°	7196	3497	2364
10°	32370	3056	1766
15°	84865	2501	1422
20°	172788	1897	1200
25°	278028	1401	1017
30°	352161	994	900
35°	336876	652	799
40°	258302	399	748
45°	131370	262	694
50°	20142	194	603
55°	2642	180	428
60°	284	164	284
65°	51	194	245
70°	63	302	302
75°	0	399	233
80°	0	471	248
85°	0	939	247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.9
10°-20°	122.8	9.9
20°-30°	402.1	32.4
30°-40°	489.5	39.4
40°-50°	198.9	16.0
50°-60°	11.8	1.0
60°-70°	2.3	0.2
70°-80°	2.0	0.2
80°-90°	1.5	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°	536.1	43.2
0°-40°	1025.6	82.6
0°-60°	1236.3	99.5
0°-90°	1242.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	166	127	81	60	55	31
15°	1904	635	56	34	32	619
25°	5852	945	30	20	21	2690
35°	6409	377	12	12	15	3876
45°	2158	43	4	8	11	1655
55°	35	4	2	5	6	61
65°	0	1	2	3	2	1
75°	0	1	2	3	1	0
85°	0	1	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°	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2.5°	118.0	112.8	115.2	114.7	112.8	113.3	114.2	112.3	113.3	110.4	110.9
5°	166.5	158.9	163.2	158.5	160.8	158.5	158.5	155.6	153.2	152.7	150.4
7.5°	290.7	272.2	277.9	257.4	260.8	254.1	247.9	241.3	229.8	224.1	211.8
10°	740.4	688.1	700.4	655.7	654.8	639.1	610.0	590.0	547.7	517.7	474.9
11°	936.5	900.8	911.7	862.7	860.3	838.9	804.7	751.4	727.6	687.6	634.3
12°	1192.5	1132.5	1139.2	1085.4	1080.2	1051.6	1013.1	947.4	918.9	870.3	807.5
13°	1425.2	1371.9	1372.3	1313.8	1307.6	1271.5	1229.1	1149.6	1117.8	1063.5	987.9
14°	1638.8	1598.4	1590.3	1558.9	1525.6	1483.2	1438.5	1348.5	1313.3	1252.4	1165.8
15°	1903.9	1824.9	1809.2	1769.7	1729.2	1675.9	1621.2	1518.4	1479.4	1412.3	1326.2
17.5°	2685.7	2588.1	2545.3	2464.9	2388.7	2286.4	2167.9	1985.7	1895.8	1775.4	1640.7
20°	3771.1	3617.4	3531.2	3402.3	3279.5	3112.0	2907.4	2620.5	2487.2	2254.1	2033.3
21°	4200.8	4068.5	3960.5	3815.3	3670.2	3471.8	3228.6	2925.0	2719.5	2446.8	2187.9
22°	4634.7	4509.1	4383.0	4223.6	4061.3	3829.6	3549.3	3197.2	2950.2	2631.9	2333.5
23°	5062.0	4934.5	4837.4	4619.0	4434.4	4173.2	3862.4	3459.9	3172.9	2808.0	2470.6
24°	5472.2	5332.8	5211.9	4991.6	4782.7	4492.0	4157.5	3714.9	3388.0	2975.9	2597.6
25°	5852.4	5698.7	5550.3	5323.8	5096.8	4779.4	4417.7	3945.7	3584.1	3128.2	2713.3
26°	6202.2	5992.3	5831.0	5621.6	5363.7	5030.6	4646.6	4145.1	3753.0	3255.3	2804.2
27°	6505.3	6293.0	6107.9	5883.8	5595.9	5237.1	4835.5	4288.3	3886.7	3350.4	2867.4
28°	6725.6	6546.2	6333.0	6091.8	5775.3	5379.4	4963.5	4402.5	3967.1	3399.9	2893.6
29°	6959.2	6755.1	6506.7	6232.6	5888.1	5468.9	5034.0	4462.0	4000.4	3411.3	2888.4
30°	7083.4	6895.5	6603.3	6304.5	5936.6	5497.4	5049.2	4471.0	3990.0	3383.7	2854.1
31°	7116.7	6941.1	6617.6	6305.9	5921.4	5469.4	5011.6	4424.4	3933.3	3319.5	2790.4
32°	7068.7	6893.1	6557.1	6245.0	5851.5	5390.8	4928.8	4341.1	3841.0	3223.4	2699.5
33°	6895.9	6753.7	6429.6	6129.4	5744.9	5274.3	4807.0	4205.5	3697.3	3098.7	2590.0
34°	6675.2	6542.4	6243.6	5935.7	5576.0	5114.4	4639.0	4041.4	3532.2	2945.5	2460.1
35°	6409.2	6278.3	6002.8	5696.8	5352.3	4901.7	4423.9	3835.3	3337.1	2772.3	2315.9
36°	6095.6	5959.5	5704.9	5413.7	5100.1	4644.7	4169.4	3598.3	3115.4	2583.8	2161.8
37°	5750.6	5613.5	5386.1	5116.3	4806.0	4355.4	3884.3	3337.1	2881.2	2388.3	2000.5
38°	5386.6	5259.0	5052.5	4783.2	4476.3	4033.7	3572.6	3098.2	2642.8	2190.3	1837.2
39°	5013.0	4878.8	4684.2	4419.6	4118.0	3681.1	3247.6	2823.7	2437.3	1995.7	1687.3
40°	4595.7	4469.1	4243.6	4036.1	3733.5	3317.6	2922.2	2520.6	2208.9	1808.7	1551.3
42.5°	3399.4	3300.5	3180.1	2967.4	2743.7	2445.4	2168.9	1890.5	1664.0	1437.1	1248.1
45°	2157.5	2084.7	2022.8	1890.5	1800.1	1632.1	1489.4	1347.1	1240.1	1121.1	911.2
47.5°	798.5	764.2	742.3	684.3	679.0	625.3	620.0	688.5	729.0	686.2	516.3
50°	300.7	292.2	286.9	268.9	256.5	231.7	213.2	199.4	171.3	151.8	136.1
51°	197.5	191.3	182.2	180.8	175.6	161.8	153.2	150.4	131.3	110.9	95.2
52°	125.6	121.8	116.1	116.6	113.7	105.2	102.3	106.6	96.6	85.2	73.8
53°	79.0	77.1	73.3	73.3	72.8	67.1	66.1	69.9	68.0	62.8	56.1
54°	51.4	50.9	47.6	48.1	48.1	44.7	44.3	45.7	45.2	43.3	40.0
55°	35.2	34.7	34.3	32.8	31.9	30.9	30.9	31.4	30.9	30.0	28.1
57.5°	12.4	11.9	12.4	11.9	11.9	12.4	11.9	12.8	13.3	13.3	12.4
60°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.3	4.8	4.8	4.8



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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	0.5	1.0	1.0	1.0
64°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
66°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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	0.5	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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°	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2.5°	109.4	109.9	108.0	107.5	107.1	104.7	103.3	101.8	100.4	98.0	99.0
5°	146.6	146.6	142.3	139.4	138.0	132.8	130.4	127.1	123.2	120.4	119.0
7.5°	204.6	201.3	191.8	184.6	180.3	169.9	163.7	154.6	149.4	143.7	140.4
10°	434.0	411.6	365.0	331.7	300.3	262.2	227.5	200.3	182.7	169.9	161.8
11°	584.8	555.3	495.8	449.7	408.8	354.5	301.2	250.3	213.7	191.3	174.6
12°	750.4	712.3	641.0	583.9	533.9	465.9	397.8	330.7	277.9	236.0	201.8
13°	922.7	873.7	790.9	725.2	667.6	589.1	508.2	427.8	363.5	306.4	254.6
14°	1093.5	1033.5	942.6	867.0	802.3	714.7	622.9	533.4	458.2	386.4	323.1
15°	1248.6	1183.0	1103.0	1004.0	934.1	821.8	735.2	634.8	549.1	465.9	392.1
17.5°	1527.0	1438.5	1344.3	1242.0	1175.3	1064.5	954.5	833.2	729.5	626.2	527.2
20°	1833.0	1675.0	1519.8	1367.6	1271.0	1153.0	1045.4	925.5	816.1	699.0	591.5
21°	1953.3	1772.5	1583.6	1412.8	1303.3	1177.2	1065.9	941.7	826.5	701.9	588.6
22°	2067.5	1851.5	1639.3	1450.9	1331.4	1202.5	1082.5	952.2	829.4	698.5	580.1
23°	2171.8	1927.6	1690.7	1484.2	1351.9	1214.8	1091.1	956.4	828.0	690.9	567.2
24°	2266.4	1997.6	1734.5	1508.9	1364.2	1218.6	1090.2	953.1	820.8	679.5	549.6
25°	2348.3	2052.8	1766.3	1522.2	1367.6	1216.7	1085.4	944.6	806.6	660.0	529.1
26°	2410.2	2088.0	1781.6	1524.1	1362.8	1210.5	1074.5	928.8	784.2	633.8	501.5
27°	2445.8	2100.9	1781.6	1516.0	1353.3	1199.1	1056.9	904.6	755.2	601.5	467.3
28°	2452.0	2095.1	1768.7	1499.4	1335.2	1179.1	1031.2	873.7	720.9	562.9	429.7
29°	2435.8	2072.3	1741.1	1470.8	1308.6	1153.4	997.8	834.6	680.0	520.6	390.7
30°	2395.9	2030.4	1700.2	1434.7	1276.7	1119.7	956.0	791.3	633.8	476.8	345.9
31°	2333.5	1970.0	1647.9	1390.9	1237.2	1079.2	909.8	741.4	582.0	422.6	297.4
32°	2250.7	1885.3	1589.8	1340.9	1193.4	1033.1	852.2	677.6	513.4	356.4	241.3
33°	2153.2	1802.5	1525.1	1287.2	1145.8	969.8	772.8	582.4	429.7	282.7	182.7
34°	2041.9	1713.5	1455.6	1230.5	1083.5	877.0	673.8	484.4	337.8	206.5	129.0
35°	1918.6	1618.8	1382.8	1163.9	985.0	763.7	560.5	377.3	244.6	139.9	97.1
36°	1787.3	1512.7	1299.5	1068.7	867.0	636.7	440.6	271.7	162.3	104.2	83.7
37°	1663.6	1420.4	1213.4	949.3	733.8	503.9	321.7	181.3	118.5	90.9	74.2
38°	1547.0	1331.4	1101.1	817.0	596.7	377.8	211.8	133.7	102.8	79.9	65.7
39°	1438.0	1242.0	969.8	675.2	459.7	266.5	153.7	114.7	89.5	70.9	58.1
40°	1332.8	1114.0	826.5	550.6	335.0	186.1	129.4	101.4	79.0	62.3	49.0
42.5°	999.8	715.7	457.8	250.8	157.5	121.3	92.3	71.4	52.3	38.5	29.5
45°	627.6	364.0	196.5	140.9	109.9	82.3	60.0	42.8	31.4	23.3	18.6
47.5°	285.5	156.6	121.8	94.2	70.9	49.0	35.2	25.7	19.0	14.8	10.9
50°	104.7	89.0	72.3	53.8	39.0	28.1	20.5	15.2	11.4	8.6	6.2
51°	81.8	71.4	57.6	40.4	30.9	22.8	16.7	12.4	9.0	6.7	4.8
52°	64.2	56.6	44.3	31.4	24.3	18.1	13.3	9.5	6.7	5.2	3.8
53°	49.5	43.3	33.3	24.3	19.0	14.3	10.5	7.6	5.2	3.8	2.9
54°	36.6	31.9	24.7	18.6	14.8	10.9	7.6	5.7	3.8	2.9	2.4
55°	26.2	23.3	18.6	14.8	11.4	8.6	5.7	4.3	2.9	1.9	1.9
57.5°	10.9	10.5	8.6	7.1	5.7	4.3	2.9	1.9	1.9	1.4	1.9
60°	4.3	4.3	3.8	2.9	2.4	1.9	1.4	1.4	1.4	1.4	1.4



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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°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9
64°	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.9
65°	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.9
66°	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.9
67.5°	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.9	1.9
70°	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.9	1.9
72.5°	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.9	1.9	1.9
75°	0.5	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.9	1.9	1.9
77.5°	0.5	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.9	1.9	1.9
80°	0.5	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.9	1.9	1.9
82.5°	0.5	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.9	1.9	1.9
85°	0.5	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.9	1.9	1.9
87.5°	0.5	1.0	1.0	1.0	1.0	1.4	1.4	1.4	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: P208856

CATALOG NUMBER: LDSQA6A15927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2.5°	97.5	97.5	94.2	93.3	92.8	91.8	89.5	89.5	88.0	86.1	85.2
5°	115.6	114.7	109.4	106.6	104.2	101.4	96.6	94.7	91.8	89.0	86.6
7.5°	133.2	129.9	121.8	117.5	114.2	109.4	103.3	99.0	94.2	89.5	86.1
10°	150.8	144.2	132.8	125.6	119.4	112.8	105.2	100.4	94.2	88.0	83.3
11°	158.0	149.4	136.6	127.5	120.4	112.8	105.2	99.0	93.3	87.1	81.8
12°	171.8	155.6	140.4	130.4	121.3	112.8	104.2	97.5	91.4	85.2	79.9
13°	199.9	169.9	144.7	132.8	122.8	112.8	103.3	96.1	89.5	83.3	77.6
14°	250.8	199.4	156.1	135.1	123.2	112.8	102.3	93.7	87.1	80.4	75.2
15°	308.3	244.6	179.4	143.7	123.7	111.8	100.4	91.4	84.2	77.6	72.3
17.5°	427.8	342.1	254.1	186.5	135.6	109.0	93.3	84.2	76.1	69.5	63.3
20°	476.3	376.9	277.9	199.9	140.4	104.2	85.2	75.7	67.1	60.4	55.2
21°	470.1	370.2	270.8	190.8	131.3	97.5	80.9	71.9	63.8	56.6	51.9
22°	457.3	354.5	254.1	174.2	120.4	90.9	77.1	67.6	60.0	53.3	48.5
23°	440.2	332.1	235.1	156.6	109.0	84.7	73.3	63.8	56.6	50.0	45.7
24°	418.7	309.8	213.2	138.9	98.0	79.9	69.0	60.0	52.8	47.1	42.8
25°	395.0	286.5	189.9	124.2	91.4	75.2	64.2	55.7	49.5	44.3	40.0
26°	365.9	258.9	168.0	110.4	83.3	69.9	59.5	51.9	46.2	41.4	37.1
27°	332.6	230.3	143.7	96.1	76.6	64.7	55.2	48.5	43.3	38.5	34.3
28°	302.6	198.4	123.2	85.7	71.4	59.5	51.4	45.2	40.4	35.7	31.9
29°	265.0	168.0	105.2	77.6	65.7	55.7	47.6	41.9	37.1	32.4	29.0
30°	227.5	138.9	89.9	70.9	60.0	50.9	43.8	38.5	33.8	30.0	27.1
31°	188.4	115.2	79.0	65.2	54.7	47.1	40.4	35.7	30.9	27.6	24.7
32°	144.2	94.2	70.4	59.0	50.0	42.4	37.1	32.4	28.1	25.2	22.4
33°	108.5	79.5	63.8	53.3	45.2	39.0	33.8	29.0	25.7	22.8	20.5
34°	86.6	70.9	57.6	48.1	40.9	35.2	30.0	26.2	22.8	20.5	18.1
35°	76.1	63.8	51.4	43.3	36.6	30.9	26.6	23.3	20.5	18.1	16.2
36°	67.6	57.1	45.7	38.5	31.9	27.1	23.3	20.5	17.6	15.7	14.3
37°	60.4	50.4	40.4	33.3	27.6	23.8	20.5	17.6	15.2	13.8	12.8
38°	54.2	43.3	34.3	28.6	23.8	20.5	17.6	15.2	13.3	11.9	10.9
39°	46.2	36.6	28.6	24.3	20.0	17.1	14.8	13.3	11.4	10.5	9.5
40°	38.5	30.5	23.8	20.0	17.1	14.3	12.8	10.9	10.0	9.0	8.1
42.5°	23.8	19.0	15.2	12.8	10.9	9.5	8.6	7.6	6.7	6.2	5.7
45°	14.8	11.9	9.5	8.1	6.7	6.2	5.7	4.8	4.8	4.3	4.3
47.5°	8.6	7.1	5.2	4.8	3.8	3.8	3.3	3.3	2.9	3.3	2.9
50°	4.8	3.3	2.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
51°	3.8	2.9	2.4	1.9	1.9	1.9	1.9	1.9	1.9	2.4	2.4
52°	2.9	2.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
53°	2.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
54°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
55°	1.9	1.9	1.9	1.9	1.9	1.4	1.9	1.9	1.9	1.9	1.9
57.5°	1.9	1.9	1.4	1.4	1.9	1.4	1.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



TEST NUMBER: P208856

CATALOG NUMBER: LDSQA6A15927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
64°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
66°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	2.4	2.4	2.4	2.4	1.9	1.9	1.9	1.9
72.5°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.9
75°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: P208856

CATALOG NUMBER: LDSQA6A15927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2.5°	84.7	84.7	84.2	83.3	76.1	69.9	66.1	65.7
5°	85.2	84.2	82.3	80.9	68.0	60.0	55.2	54.7
7.5°	83.3	81.4	79.0	76.1	60.4	51.9	47.6	46.6
10°	79.9	76.6	73.8	69.9	53.3	45.2	41.4	40.4
11°	77.6	74.2	71.4	67.6	50.4	42.8	39.0	38.5
12°	75.7	71.9	68.0	64.7	47.6	40.4	37.1	36.6
13°	72.8	69.0	65.7	61.9	45.2	38.5	35.2	34.7
14°	70.4	66.1	62.8	59.5	42.8	36.2	33.8	33.3
15°	67.6	63.3	59.5	56.1	40.4	34.3	32.4	31.9
17.5°	60.0	55.2	51.9	48.5	34.7	30.0	28.6	29.0
20°	50.9	47.1	44.3	41.4	29.5	26.2	25.7	26.2
21°	47.6	44.3	41.9	39.0	27.6	24.7	24.7	25.2
22°	44.7	41.4	39.0	36.2	26.2	23.3	23.3	24.3
23°	41.9	38.5	36.2	33.8	24.3	22.4	22.4	23.3
24°	39.0	36.2	33.8	31.4	22.8	20.9	21.4	22.4
25°	36.2	33.8	31.4	29.5	21.4	20.0	20.5	21.4
26°	34.3	31.4	29.5	27.1	20.0	19.0	19.5	20.9
27°	31.4	29.0	27.1	25.2	19.0	18.1	19.0	20.0
28°	29.5	27.1	25.2	23.3	17.6	17.1	18.1	19.5
29°	27.1	25.2	23.3	21.9	16.7	16.2	17.6	18.6
30°	24.7	22.8	21.4	20.0	15.7	15.2	16.7	18.1
31°	22.8	21.4	20.0	18.6	14.8	14.8	16.2	17.6
32°	20.9	19.5	18.1	16.7	13.8	13.8	15.7	16.7
33°	19.0	17.6	16.2	15.2	12.8	13.3	14.8	16.2
34°	16.7	15.7	14.8	13.8	11.9	12.4	14.3	15.7
35°	15.2	14.3	13.3	12.4	11.4	11.9	13.8	15.2
36°	13.3	12.8	11.9	11.4	10.5	11.4	13.3	14.8
37°	11.9	11.4	10.5	10.0	10.0	10.9	12.8	14.3
38°	10.5	10.0	9.5	9.0	9.5	10.5	12.4	13.8
39°	9.0	8.6	8.6	8.1	9.0	10.0	11.9	13.3
40°	8.1	7.6	7.6	7.1	8.6	9.5	11.4	13.3
42.5°	5.7	5.7	5.7	5.7	7.1	8.6	10.5	12.4
45°	4.3	4.3	4.3	4.3	6.2	7.6	9.0	11.4
47.5°	3.3	3.3	3.3	3.3	5.7	7.1	8.6	10.0
50°	2.4	2.4	2.9	2.9	5.2	6.2	7.6	9.0
51°	2.4	2.4	2.4	2.9	4.8	6.2	7.1	8.6
52°	2.4	2.4	2.4	2.4	4.8	5.7	6.7	7.6
53°	1.9	2.4	2.4	2.4	4.3	5.7	6.2	7.1
54°	1.9	1.9	1.9	2.4	4.3	5.2	5.7	6.7
55°	1.9	1.9	1.9	2.4	3.8	5.2	5.7	5.7
57.5°	1.9	1.9	1.9	1.9	3.8	4.8	5.2	4.8
60°	1.9	1.9	1.9	1.9	3.3	4.3	4.8	3.3



TEST NUMBER: P208856

CATALOG NUMBER: LDSQA6A15927D010TE LARL20NF 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	3.3	3.8	3.8	2.9
64°	1.9	1.9	1.9	1.9	3.3	3.8	3.8	2.9
65°	1.9	1.9	1.9	1.9	3.3	3.3	3.3	2.4
66°	1.9	1.9	1.9	1.9	3.3	3.3	3.3	2.4
67.5°	1.9	1.9	1.9	1.9	3.3	3.3	2.9	2.4
70°	1.9	1.9	1.9	2.4	2.9	2.9	2.9	2.4
72.5°	1.9	1.9	1.9	2.4	2.9	2.9	2.4	1.9
75°	2.4	2.4	2.4	2.4	2.9	2.9	2.4	1.4
77.5°	2.4	2.4	2.4	2.4	2.9	2.4	1.9	1.4
80°	2.4	2.4	1.9	1.9	2.4	2.4	1.4	1.0
82.5°	2.4	2.4	1.9	1.9	2.4	1.9	1.4	1.0
85°	2.4	2.4	1.9	1.9	2.4	1.9	1.0	0.5
87.5°	2.4	1.9	1.9	1.9	2.4	1.9	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°	1.4	1.4	1.4	1.4	1.9	1.4	1.9	2.4	2.9	2.9	2.9
62°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.9





61°	2.9	2.9	2.4	2.4	1.9	1.4	1.4	1.4	1.4	1.4	1.4
62°	1.9	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9





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





61°	1.9	1.9	1.9	1.9	3.3	4.3	4.3	3.3
62°	1.9	1.9	1.9	1.9	3.3	3.8	4.3	2.9



(END OF REPORT)