

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: P208852

Luminaire Tested: **LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208852
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: LDSQA6A15827D010TE 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 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1547.6 lumens
Efficiency: N/A
Efficacy: 71.0 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

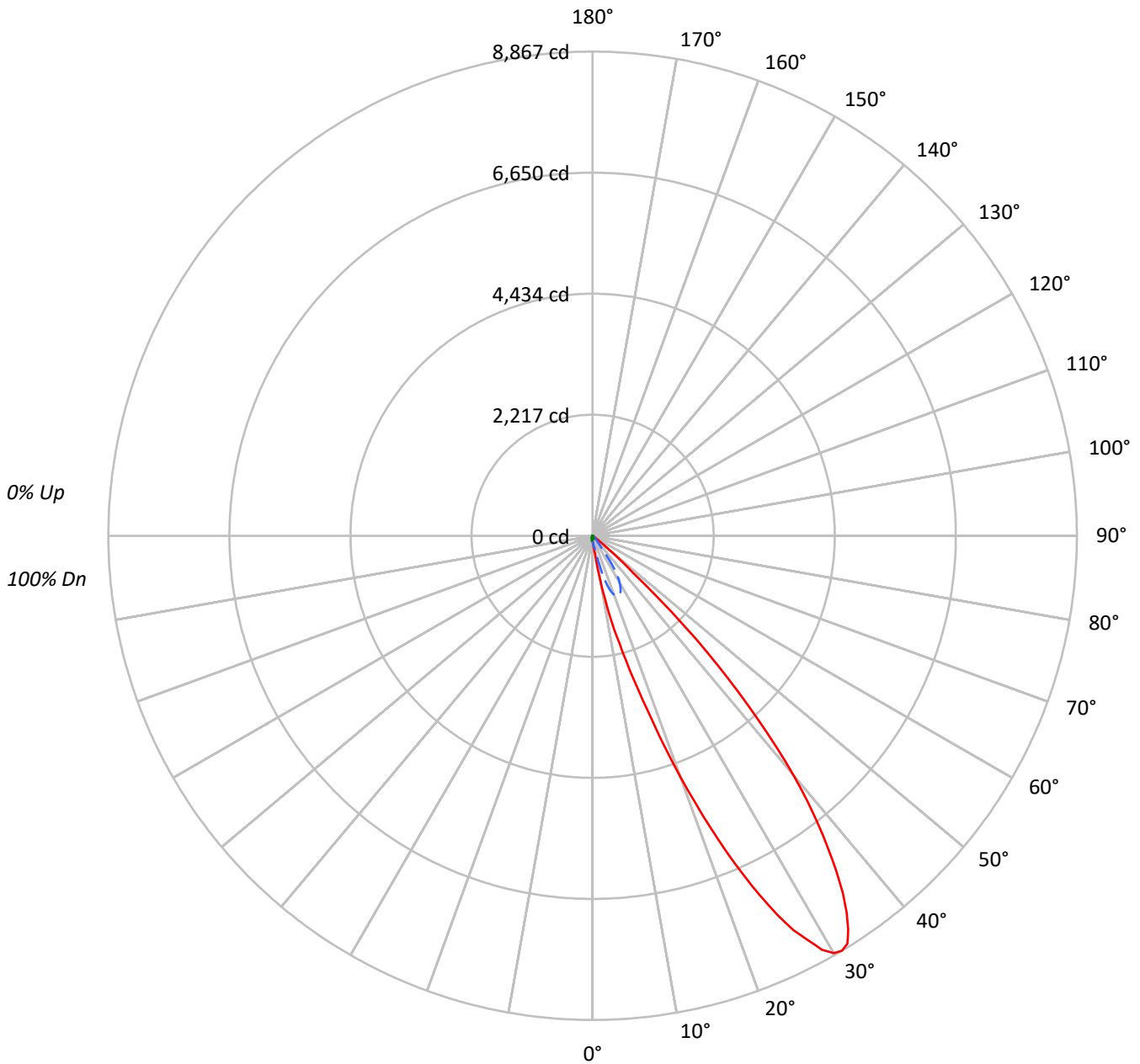
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

Luminous Intensity Polar Plot





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CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4491	4491	4491
5°	8968	4357	2948
10°	40332	3812	2203
15°	105735	3120	1770
20°	215285	2364	1494
25°	346414	1748	1268
30°	438777	1238	1119
35°	419728	809	999
40°	321836	500	933
45°	163678	323	865
50°	25098	241	757
55°	3295	225	533
60°	362	207	362
65°	61	245	306
70°	76	378	378
75°	0	499	299
80°	0	595	298
85°	0	1186	296



TEST NUMBER: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	0.9
10°-20°	153.0	9.9
20°-30°	501.0	32.4
30°-40°	609.9	39.4
40°-50°	247.8	16.0
50°-60°	14.7	1.0
60°-70°	2.9	0.2
70°-80°	2.6	0.2
80°-90°	1.8	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°	668.0	43.2
0°-40°	1277.9	82.6
0°-60°	1540.4	99.5
0°-90°	1547.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1547.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	208	158	101	75	68	39
15°	2372	791	70	43	40	772
25°	7292	1177	37	25	27	3351
35°	7986	470	15	15	19	4830
45°	2688	53	5	10	14	2062
55°	44	5	3	6	7	76
65°	1	2	2	4	3	1
75°	0	2	3	4	2	0
85°	0	2	2	2	1	0
90°	0	0	0	0	0	



TEST NUMBER: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	147.0	140.5	143.5	142.9	140.5	141.1	142.3	139.9	141.1	137.5	138.1
5°	207.5	198.0	203.4	197.4	200.4	197.4	197.4	193.9	190.9	190.3	187.4
7.5°	362.3	339.1	346.2	320.7	324.9	316.6	308.9	300.6	286.4	279.2	263.8
10°	922.5	857.3	872.7	817.0	815.8	796.2	760.1	735.2	682.4	645.1	591.7
11°	1166.8	1122.3	1136.0	1074.9	1071.9	1045.3	1002.6	936.2	906.5	856.7	790.3
12°	1485.8	1411.1	1419.4	1352.4	1345.8	1310.3	1262.2	1180.4	1144.9	1084.4	1006.1
13°	1775.7	1709.3	1709.9	1636.9	1629.2	1584.2	1531.4	1432.4	1392.7	1325.1	1230.8
14°	2041.9	1991.5	1981.4	1942.3	1900.8	1848.0	1792.3	1680.2	1636.4	1560.5	1452.6
15°	2372.1	2273.7	2254.1	2204.9	2154.5	2088.1	2019.9	1891.9	1843.3	1759.7	1652.4
17.5°	3346.2	3224.7	3171.3	3071.1	2976.3	2848.8	2701.2	2474.1	2362.0	2212.0	2044.3
20°	4698.6	4507.1	4399.8	4239.1	4086.1	3877.4	3622.5	3265.0	3099.0	2808.5	2533.4
21°	5234.0	5069.1	4934.6	4753.7	4572.9	4325.7	4022.7	3644.4	3388.3	3048.6	2726.1
22°	5774.7	5618.1	5461.0	5262.4	5060.2	4771.5	4422.3	3983.6	3675.9	3279.2	2907.5
23°	6307.1	6148.2	6027.2	5755.1	5525.1	5199.6	4812.4	4310.8	3953.3	3498.6	3078.2
24°	6818.1	6644.4	6493.8	6219.3	5959.1	5596.8	5180.0	4628.6	4221.3	3707.9	3236.5
25°	7291.9	7100.4	6915.4	6633.2	6350.4	5954.9	5504.3	4916.2	4465.6	3897.6	3380.6
26°	7727.6	7466.2	7265.2	7004.3	6683.0	6267.9	5789.5	5164.6	4676.1	4055.9	3493.9
27°	8105.3	7840.9	7610.2	7331.0	6972.3	6525.3	6024.9	5343.1	4842.7	4174.5	3572.7
28°	8379.8	8156.3	7890.7	7590.1	7195.8	6702.5	6184.4	5485.3	4942.9	4236.1	3605.3
29°	8670.9	8416.6	8107.1	7765.6	7336.3	6814.0	6272.1	5559.5	4984.4	4250.4	3598.8
30°	8825.6	8591.5	8227.4	7855.1	7396.8	6849.6	6291.1	5570.7	4971.3	4216.0	3556.1
31°	8867.1	8648.4	8245.2	7856.9	7377.8	6814.6	6244.2	5512.6	4900.8	4135.9	3476.7
32°	8807.3	8588.5	8169.9	7781.0	7290.7	6716.8	6141.1	5408.9	4785.7	4016.2	3363.4
33°	8592.0	8414.8	8011.0	7636.9	7157.9	6571.5	5989.3	5239.9	4606.7	3860.8	3227.1
34°	8316.9	8151.5	7779.2	7395.6	6947.4	6372.3	5780.0	5035.3	4401.0	3669.9	3065.2
35°	7985.5	7822.5	7479.2	7098.0	6668.7	6107.3	5512.0	4778.6	4157.9	3454.1	2885.6
36°	7594.8	7425.3	7108.1	6745.2	6354.5	5787.1	5194.8	4483.4	3881.6	3219.3	2693.5
37°	7165.0	6994.2	6710.8	6374.7	5988.1	5426.6	4839.7	4157.9	3589.9	2975.7	2492.5
38°	6711.4	6552.5	6295.2	5959.6	5577.2	5025.9	4451.4	3860.3	3292.9	2729.0	2289.1
39°	6246.0	6078.8	5836.3	5506.7	5130.8	4586.5	4046.4	3518.2	3036.7	2486.5	2102.4
40°	5726.1	5568.3	5287.3	5028.8	4651.8	4133.6	3640.9	3140.5	2752.2	2253.5	1932.8
42.5°	4235.5	4112.2	3962.2	3697.2	3418.6	3046.8	2702.4	2355.5	2073.3	1790.5	1555.1
45°	2688.1	2597.4	2520.3	2355.5	2242.9	2033.6	1855.7	1678.4	1545.1	1396.8	1135.4
47.5°	994.9	952.2	924.9	852.6	846.0	779.0	772.5	857.9	908.3	854.9	643.3
50°	374.7	364.0	357.5	335.0	319.6	288.7	265.6	248.4	213.4	189.1	169.6
51°	246.0	238.3	227.1	225.3	218.8	201.6	190.9	187.4	163.6	138.1	118.6
52°	156.5	151.8	144.7	145.3	141.7	131.0	127.5	132.8	120.4	106.1	91.9
53°	98.4	96.0	91.3	91.3	90.7	83.6	82.4	87.2	84.8	78.3	70.0
54°	64.0	63.4	59.3	59.9	59.9	55.7	55.1	56.9	56.3	54.0	49.8
55°	43.9	43.3	42.7	40.9	39.7	38.5	38.5	39.1	38.5	37.4	35.0
57.5°	15.4	14.8	15.4	14.8	14.8	15.4	14.8	16.0	16.6	16.6	15.4
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.3	5.9	5.9	5.9



TEST NUMBER: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	1.2	1.2	1.2
64°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
66°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
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°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	136.4	137.0	134.6	134.0	133.4	130.4	128.7	126.9	125.1	122.1	123.3
5°	182.6	182.6	177.3	173.7	171.9	165.4	162.4	158.3	153.6	150.0	148.2
7.5°	254.9	250.8	238.9	230.0	224.7	211.7	204.0	192.7	186.2	179.1	174.9
10°	540.7	512.8	454.7	413.2	374.1	326.7	283.4	249.6	227.7	211.7	201.6
11°	728.7	691.9	617.8	560.3	509.3	441.7	375.3	311.9	266.2	238.3	217.6
12°	935.0	887.5	798.6	727.5	665.2	580.4	495.6	412.1	346.2	294.1	251.4
13°	1149.6	1088.5	985.4	903.6	831.8	734.0	633.2	533.0	453.0	381.8	317.2
14°	1362.4	1287.7	1174.5	1080.2	999.6	890.5	776.1	664.6	570.9	481.4	402.6
15°	1555.7	1473.9	1374.3	1251.0	1163.8	1023.9	916.0	790.9	684.2	580.4	488.5
17.5°	1902.6	1792.3	1674.9	1547.4	1464.4	1326.3	1189.3	1038.1	908.9	780.2	656.9
20°	2283.8	2086.9	1893.7	1703.9	1583.6	1436.6	1302.6	1153.2	1016.8	870.9	737.0
21°	2433.8	2208.5	1973.1	1760.3	1623.9	1466.8	1328.1	1173.3	1029.8	874.5	733.4
22°	2576.1	2306.9	2042.5	1807.7	1658.9	1498.2	1348.8	1186.4	1033.4	870.4	722.7
23°	2705.9	2401.8	2106.5	1849.2	1684.4	1513.6	1359.5	1191.7	1031.6	860.9	706.7
24°	2823.9	2488.9	2161.1	1880.0	1699.8	1518.4	1358.3	1187.5	1022.7	846.6	684.8
25°	2925.9	2557.7	2200.8	1896.6	1703.9	1516.0	1352.4	1176.9	1004.9	822.3	659.3
26°	3002.9	2601.6	2219.7	1899.0	1698.0	1508.3	1338.7	1157.3	977.1	789.7	624.9
27°	3047.4	2617.6	2219.7	1888.9	1686.2	1494.1	1316.8	1127.1	940.9	749.4	582.2
28°	3055.1	2610.5	2203.7	1868.2	1663.6	1469.2	1284.8	1088.5	898.2	701.4	535.4
29°	3035.0	2582.0	2169.4	1832.6	1630.4	1437.1	1243.3	1039.9	847.2	648.6	486.8
30°	2985.2	2529.8	2118.4	1787.5	1590.7	1395.1	1191.1	986.0	789.7	594.1	431.0
31°	2907.5	2454.5	2053.2	1733.0	1541.5	1344.7	1133.6	923.7	725.1	526.5	370.6
32°	2804.3	2349.0	1980.8	1670.7	1486.9	1287.1	1061.9	844.3	639.7	444.1	300.6
33°	2682.8	2245.8	1900.2	1603.7	1427.7	1208.3	962.8	725.7	535.4	352.2	227.7
34°	2544.1	2135.0	1813.6	1533.2	1350.0	1092.7	839.5	603.6	420.9	257.3	160.7
35°	2390.5	2017.0	1722.9	1450.2	1227.3	951.6	698.4	470.2	304.7	174.3	120.9
36°	2226.9	1884.8	1619.2	1331.6	1080.2	793.3	549.0	338.5	202.2	129.8	104.3
37°	2072.7	1769.8	1511.8	1182.8	914.2	627.9	400.8	225.9	147.6	113.2	92.5
38°	1927.5	1658.9	1371.9	1018.0	743.5	470.7	263.8	166.6	128.1	99.6	81.8
39°	1791.7	1547.4	1208.3	841.3	572.7	332.0	191.5	142.9	111.5	88.3	72.3
40°	1660.7	1387.9	1029.8	686.0	417.4	231.8	161.3	126.3	98.4	77.7	61.1
42.5°	1245.6	891.7	570.4	312.4	196.2	151.2	115.0	88.9	65.2	48.0	36.8
45°	782.0	453.6	244.9	175.5	137.0	102.6	74.7	53.4	39.1	29.1	23.1
47.5°	355.7	195.1	151.8	117.4	88.3	61.1	43.9	32.0	23.7	18.4	13.6
50°	130.4	110.9	90.1	67.0	48.6	35.0	25.5	19.0	14.2	10.7	7.7
51°	102.0	88.9	71.7	50.4	38.5	28.5	20.8	15.4	11.3	8.3	5.9
52°	80.0	70.6	55.1	39.1	30.2	22.5	16.6	11.9	8.3	6.5	4.7
53°	61.7	54.0	41.5	30.2	23.7	17.8	13.0	9.5	6.5	4.7	3.6
54°	45.7	39.7	30.8	23.1	18.4	13.6	9.5	7.1	4.7	3.6	3.0
55°	32.6	29.1	23.1	18.4	14.2	10.7	7.1	5.3	3.6	2.4	2.4
57.5°	13.6	13.0	10.7	8.9	7.1	5.3	3.6	2.4	2.4	1.8	2.4
60°	5.3	5.3	4.7	3.6	3.0	2.4	1.8	1.8	1.8	1.8	1.8



TEST NUMBER: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4
64°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	2.4
65°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4
66°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4
67.5°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4
70°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4
72.5°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
75°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
77.5°	0.6	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4	2.4
80°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
82.5°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
85°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
87.5°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	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: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	121.5	121.5	117.4	116.2	115.6	114.4	111.5	111.5	109.7	107.3	106.1
5°	144.1	142.9	136.4	132.8	129.8	126.3	120.4	118.0	114.4	110.9	107.9
7.5°	166.0	161.9	151.8	146.4	142.3	136.4	128.7	123.3	117.4	111.5	107.3
10°	187.9	179.6	165.4	156.5	148.8	140.5	131.0	125.1	117.4	109.7	103.8
11°	196.8	186.2	170.2	158.9	150.0	140.5	131.0	123.3	116.2	108.5	102.0
12°	214.0	193.9	174.9	162.4	151.2	140.5	129.8	121.5	113.8	106.1	99.6
13°	249.0	211.7	180.2	165.4	153.0	140.5	128.7	119.8	111.5	103.8	96.6
14°	312.4	248.4	194.5	168.4	153.6	140.5	127.5	116.8	108.5	100.2	93.7
15°	384.2	304.7	223.5	179.1	154.1	139.3	125.1	113.8	104.9	96.6	90.1
17.5°	533.0	426.3	316.6	232.4	169.0	135.8	116.2	104.9	94.9	86.6	78.9
20°	593.5	469.6	346.2	249.0	174.9	129.8	106.1	94.3	83.6	75.3	68.8
21°	585.8	461.3	337.3	237.7	163.6	121.5	100.8	89.5	79.4	70.6	64.6
22°	569.8	441.7	316.6	217.0	150.0	113.2	96.0	84.2	74.7	66.4	60.5
23°	548.4	413.8	292.9	195.1	135.8	105.5	91.3	79.4	70.6	62.3	56.9
24°	521.7	386.0	265.6	173.1	122.1	99.6	86.0	74.7	65.8	58.7	53.4
25°	492.1	356.9	236.6	154.7	113.8	93.7	80.0	69.4	61.7	55.1	49.8
26°	455.9	322.5	209.3	137.5	103.8	87.2	74.1	64.6	57.5	51.6	46.2
27°	414.4	287.0	179.1	119.8	95.5	80.6	68.8	60.5	54.0	48.0	42.7
28°	377.1	247.2	153.6	106.7	88.9	74.1	64.0	56.3	50.4	44.5	39.7
29°	330.2	209.3	131.0	96.6	81.8	69.4	59.3	52.2	46.2	40.3	36.2
30°	283.4	173.1	112.1	88.3	74.7	63.4	54.5	48.0	42.1	37.4	33.8
31°	234.8	143.5	98.4	81.2	68.2	58.7	50.4	44.5	38.5	34.4	30.8
32°	179.6	117.4	87.7	73.5	62.3	52.8	46.2	40.3	35.0	31.4	27.9
33°	135.2	99.0	79.4	66.4	56.3	48.6	42.1	36.2	32.0	28.5	25.5
34°	107.9	88.3	71.7	59.9	51.0	43.9	37.4	32.6	28.5	25.5	22.5
35°	94.9	79.4	64.0	54.0	45.7	38.5	33.2	29.1	25.5	22.5	20.2
36°	84.2	71.1	56.9	48.0	39.7	33.8	29.1	25.5	21.9	19.6	17.8
37°	75.3	62.8	50.4	41.5	34.4	29.6	25.5	21.9	19.0	17.2	16.0
38°	67.6	54.0	42.7	35.6	29.6	25.5	21.9	19.0	16.6	14.8	13.6
39°	57.5	45.7	35.6	30.2	24.9	21.3	18.4	16.6	14.2	13.0	11.9
40°	48.0	37.9	29.6	24.9	21.3	17.8	16.0	13.6	12.5	11.3	10.1
42.5°	29.6	23.7	19.0	16.0	13.6	11.9	10.7	9.5	8.3	7.7	7.1
45°	18.4	14.8	11.9	10.1	8.3	7.7	7.1	5.9	5.9	5.3	5.3
47.5°	10.7	8.9	6.5	5.9	4.7	4.7	4.2	4.2	3.6	4.2	3.6
50°	5.9	4.2	3.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
51°	4.7	3.6	3.0	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.0
52°	3.6	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
53°	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
54°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
55°	2.4	2.4	2.4	2.4	2.4	1.8	2.4	2.4	2.4	2.4	2.4
57.5°	2.4	2.4	1.8	1.8	2.4	1.8	2.4	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
64°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
66°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	2.4	2.4	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4	2.4
72.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4
75°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	105.5	105.5	104.9	103.8	94.9	87.2	82.4	81.8
5°	106.1	104.9	102.6	100.8	84.8	74.7	68.8	68.2
7.5°	103.8	101.4	98.4	94.9	75.3	64.6	59.3	58.1
10°	99.6	95.5	91.9	87.2	66.4	56.3	51.6	50.4
11°	96.6	92.5	88.9	84.2	62.8	53.4	48.6	48.0
12°	94.3	89.5	84.8	80.6	59.3	50.4	46.2	45.7
13°	90.7	86.0	81.8	77.1	56.3	48.0	43.9	43.3
14°	87.7	82.4	78.3	74.1	53.4	45.1	42.1	41.5
15°	84.2	78.9	74.1	70.0	50.4	42.7	40.3	39.7
17.5°	74.7	68.8	64.6	60.5	43.3	37.4	35.6	36.2
20°	63.4	58.7	55.1	51.6	36.8	32.6	32.0	32.6
21°	59.3	55.1	52.2	48.6	34.4	30.8	30.8	31.4
22°	55.7	51.6	48.6	45.1	32.6	29.1	29.1	30.2
23°	52.2	48.0	45.1	42.1	30.2	27.9	27.9	29.1
24°	48.6	45.1	42.1	39.1	28.5	26.1	26.7	27.9
25°	45.1	42.1	39.1	36.8	26.7	24.9	25.5	26.7
26°	42.7	39.1	36.8	33.8	24.9	23.7	24.3	26.1
27°	39.1	36.2	33.8	31.4	23.7	22.5	23.7	24.9
28°	36.8	33.8	31.4	29.1	21.9	21.3	22.5	24.3
29°	33.8	31.4	29.1	27.3	20.8	20.2	21.9	23.1
30°	30.8	28.5	26.7	24.9	19.6	19.0	20.8	22.5
31°	28.5	26.7	24.9	23.1	18.4	18.4	20.2	21.9
32°	26.1	24.3	22.5	20.8	17.2	17.2	19.6	20.8
33°	23.7	21.9	20.2	19.0	16.0	16.6	18.4	20.2
34°	20.8	19.6	18.4	17.2	14.8	15.4	17.8	19.6
35°	19.0	17.8	16.6	15.4	14.2	14.8	17.2	19.0
36°	16.6	16.0	14.8	14.2	13.0	14.2	16.6	18.4
37°	14.8	14.2	13.0	12.5	12.5	13.6	16.0	17.8
38°	13.0	12.5	11.9	11.3	11.9	13.0	15.4	17.2
39°	11.3	10.7	10.7	10.1	11.3	12.5	14.8	16.6
40°	10.1	9.5	9.5	8.9	10.7	11.9	14.2	16.6
42.5°	7.1	7.1	7.1	7.1	8.9	10.7	13.0	15.4
45°	5.3	5.3	5.3	5.3	7.7	9.5	11.3	14.2
47.5°	4.2	4.2	4.2	4.2	7.1	8.9	10.7	12.5
50°	3.0	3.0	3.6	3.6	6.5	7.7	9.5	11.3
51°	3.0	3.0	3.0	3.6	5.9	7.7	8.9	10.7
52°	3.0	3.0	3.0	3.0	5.9	7.1	8.3	9.5
53°	2.4	3.0	3.0	3.0	5.3	7.1	7.7	8.9
54°	2.4	2.4	2.4	3.0	5.3	6.5	7.1	8.3
55°	2.4	2.4	2.4	3.0	4.7	6.5	7.1	7.1
57.5°	2.4	2.4	2.4	2.4	4.7	5.9	6.5	5.9
60°	2.4	2.4	2.4	2.4	4.2	5.3	5.9	4.2



TEST NUMBER: P208852

CATALOG NUMBER: LDSQA6A15827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.4	2.4	2.4	2.4	4.2	4.7	4.7	3.6
64°	2.4	2.4	2.4	2.4	4.2	4.7	4.7	3.6
65°	2.4	2.4	2.4	2.4	4.2	4.2	4.2	3.0
66°	2.4	2.4	2.4	2.4	4.2	4.2	4.2	3.0
67.5°	2.4	2.4	2.4	2.4	4.2	4.2	3.6	3.0
70°	2.4	2.4	2.4	3.0	3.6	3.6	3.6	3.0
72.5°	2.4	2.4	2.4	3.0	3.6	3.6	3.0	2.4
75°	3.0	3.0	3.0	3.0	3.6	3.6	3.0	1.8
77.5°	3.0	3.0	3.0	3.0	3.6	3.0	2.4	1.8
80°	3.0	3.0	2.4	2.4	3.0	3.0	1.8	1.2
82.5°	3.0	3.0	2.4	2.4	3.0	2.4	1.8	1.2
85°	3.0	3.0	2.4	2.4	3.0	2.4	1.2	0.6
87.5°	3.0	2.4	2.4	2.4	3.0	2.4	0.6	0.6
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°	1.8	1.8	1.8	1.8	2.4	1.8	2.4	3.0	3.6	3.6	3.6
62°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4





61°	3.6	3.6	3.0	3.0	2.4	1.8	1.8	1.8	1.8	1.8	1.8
62°	2.4	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4





61°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4





61°	2.4	2.4	2.4	2.4	4.2	5.3	5.3	4.2
62°	2.4	2.4	2.4	2.4	4.2	4.7	5.3	3.6



(END OF REPORT)