

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: P208864

Luminaire Tested: **LDSQA6A20927D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208864  
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: LDSQA6A20927D010TE 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: 1504.7 lumens  
Efficiency: N/A  
Efficacy: 52.2 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

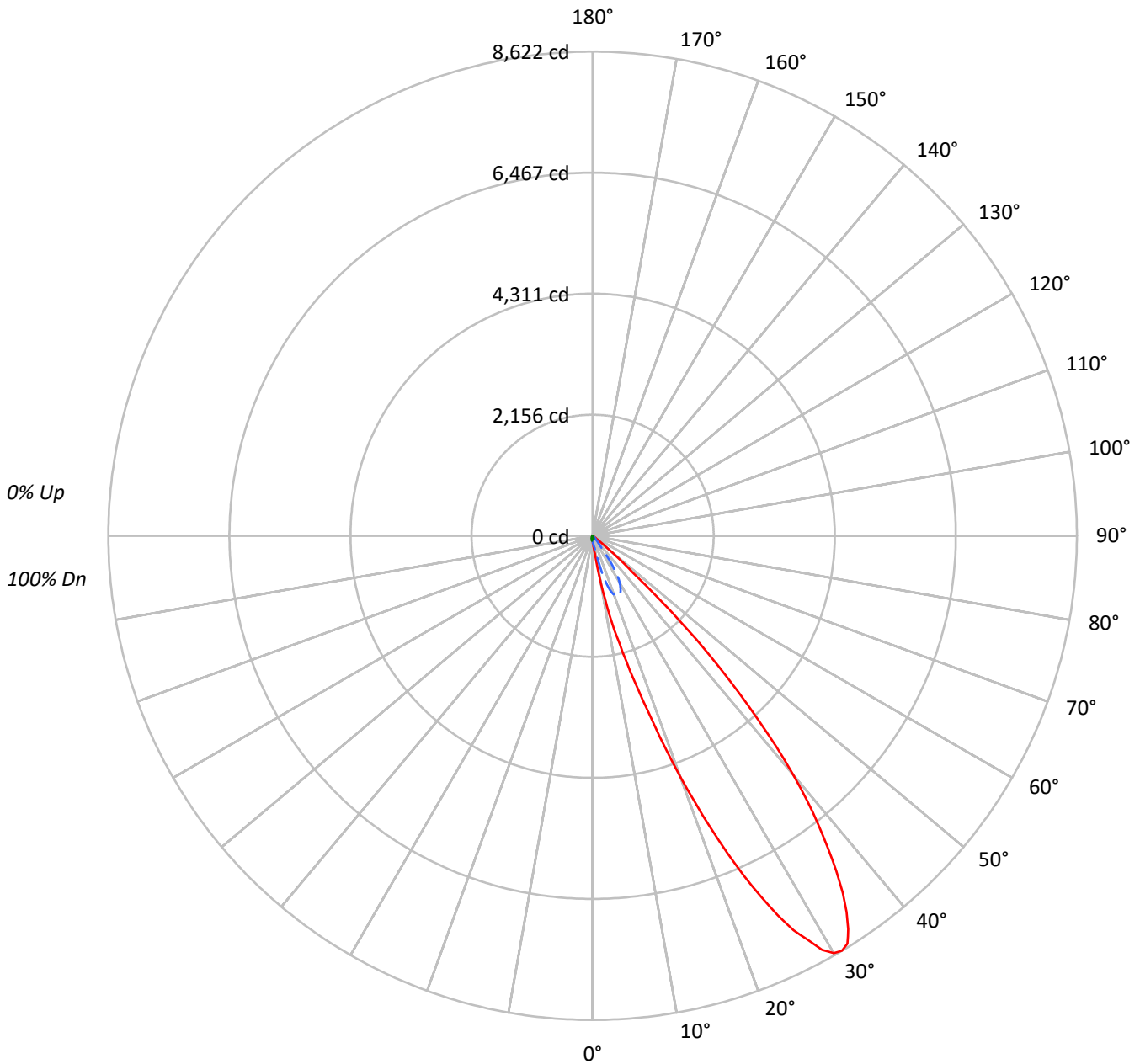
Input Watts (W): 28.81  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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°	4370	4370	4370
5°	8722	4236	2865
10°	39217	3703	2142
15°	102811	3031	1721
20°	209324	2300	1452
25°	336822	1696	1230
30°	426631	1203	1089
35°	408112	788	967
40°	312922	483	905
45°	159148	317	840
50°	24402	234	737
55°	3205	218	518
60°	344	198	344
65°	61	234	295
70°	76	365	365
75°	0	482	283
80°	0	570	298
85°	0	1136	296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	0.9
10°-20°	148.8	9.9
20°-30°	487.2	32.4
30°-40°	593.0	39.4
40°-50°	240.9	16.0
50°-60°	14.3	1.0
60°-70°	2.8	0.2
70°-80°	2.5	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°	649.5	43.2
0°-40°	1242.5	82.6
0°-60°	1497.7	99.5
0°-90°	1504.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	102	102	102	102	102	
5°	202	154	98	73	66	38
15°	2306	769	68	42	39	750
25°	7090	1144	36	24	26	3258
35°	7764	457	15	14	18	4696
45°	2614	52	5	9	14	2005
55°	43	5	3	6	7	74
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	143.0	136.6	139.5	138.9	136.6	137.2	138.4	136.0	137.2	133.7	134.3
5°	201.8	192.5	197.7	192.0	194.8	192.0	192.0	188.5	185.6	185.0	182.2
7.5°	352.2	329.7	336.7	311.9	315.9	307.8	300.3	292.3	278.4	271.5	256.5
10°	897.0	833.6	848.6	794.4	793.2	774.2	739.0	714.8	663.5	627.2	575.3
11°	1134.5	1091.3	1104.5	1045.1	1042.3	1016.3	974.8	910.2	881.4	833.0	768.4
12°	1444.6	1372.0	1380.1	1314.9	1308.6	1274.0	1227.3	1147.7	1113.2	1054.4	978.3
13°	1726.5	1662.0	1662.5	1591.6	1584.1	1540.3	1489.0	1392.7	1354.1	1288.4	1196.7
14°	1985.4	1936.4	1926.6	1888.5	1848.2	1796.9	1742.7	1633.7	1591.1	1517.3	1412.3
15°	2306.5	2210.8	2191.7	2143.9	2094.9	2030.3	1964.0	1839.5	1792.2	1711.0	1606.6
17.5°	3253.6	3135.4	3083.5	2986.1	2893.9	2769.9	2626.4	2405.6	2296.7	2150.8	1987.7
20°	4568.5	4382.3	4278.0	4121.8	3973.0	3770.1	3522.2	3174.6	3013.2	2730.7	2463.3
21°	5089.1	4928.8	4798.0	4622.1	4446.3	4205.9	3911.3	3543.6	3294.5	2964.2	2650.6
22°	5614.8	5462.6	5309.9	5116.7	4920.2	4639.4	4299.9	3873.3	3574.1	3188.4	2827.0
23°	6132.5	5978.0	5860.4	5595.8	5372.1	5055.6	4679.2	4191.5	3843.9	3401.7	2993.0
24°	6629.4	6460.5	6314.1	6047.2	5794.1	5441.9	5036.6	4500.5	4104.5	3605.2	3146.9
25°	7090.0	6903.8	6723.9	6449.5	6174.6	5790.1	5351.9	4780.1	4342.0	3789.7	3287.0
26°	7513.7	7259.5	7064.1	6810.4	6498.0	6094.4	5629.2	5021.6	4546.6	3943.6	3397.1
27°	7880.9	7623.8	7399.6	7128.0	6779.3	6344.6	5858.1	5195.1	4708.6	4058.9	3473.8
28°	8147.8	7930.5	7672.2	7380.0	6996.6	6517.0	6013.1	5333.5	4806.0	4118.9	3505.5
29°	8430.9	8183.6	7882.6	7550.6	7133.2	6625.4	6098.5	5405.5	4846.4	4132.7	3499.2
30°	8581.3	8353.6	7999.7	7637.6	7192.0	6659.9	6116.9	5416.5	4833.7	4099.3	3457.7
31°	8621.7	8409.0	8017.0	7639.4	7173.6	6625.9	6071.4	5360.0	4765.1	4021.4	3380.4
32°	8563.4	8350.7	7943.7	7565.6	7088.8	6530.8	5971.1	5259.1	4653.3	3905.0	3270.3
33°	8354.2	8181.8	7789.2	7425.5	6959.7	6389.6	5823.5	5094.8	4479.2	3754.0	3137.7
34°	8086.7	7925.9	7563.8	7190.9	6755.1	6195.9	5620.0	4896.0	4279.1	3568.3	2980.3
35°	7764.5	7605.9	7272.2	6901.5	6484.1	5938.2	5359.4	4646.3	4042.8	3358.5	2805.7
36°	7384.6	7219.7	6911.3	6558.5	6178.6	5626.9	5051.0	4359.3	3774.1	3130.2	2618.9
37°	6966.6	6800.6	6525.1	6198.2	5822.3	5276.4	4705.7	4042.8	3490.5	2893.3	2423.5
38°	6525.6	6371.1	6120.9	5794.7	5422.8	4886.7	4328.1	3753.4	3201.7	2653.5	2225.7
39°	6073.1	5910.5	5674.8	5354.2	4988.8	4459.6	3934.4	3420.8	2952.7	2417.7	2044.2
40°	5567.5	5414.2	5140.9	4889.6	4523.0	4019.1	3540.1	3053.6	2676.0	2191.2	1879.3
42.5°	4118.3	3998.4	3852.5	3594.9	3323.9	2962.5	2627.5	2290.3	2015.9	1740.9	1512.1
45°	2613.7	2525.5	2450.6	2290.3	2180.8	1977.3	1804.3	1632.0	1502.3	1358.2	1103.9
47.5°	967.3	925.8	899.3	829.0	822.6	757.5	751.1	834.2	883.2	831.3	625.5
50°	364.3	354.0	347.6	325.7	310.7	280.7	258.3	241.5	207.5	183.9	164.9
51°	239.2	231.7	220.8	219.1	212.7	196.0	185.6	182.2	159.1	134.3	115.3
52°	152.2	147.6	140.7	141.2	137.8	127.4	123.9	129.1	117.0	103.2	89.4
53°	95.7	93.4	88.8	88.8	88.2	81.3	80.1	84.7	82.4	76.1	68.0
54°	62.3	61.7	57.6	58.2	58.2	54.2	53.6	55.3	54.8	52.5	48.4
55°	42.7	42.1	41.5	39.8	38.6	37.5	37.5	38.0	37.5	36.3	34.0
57.5°	15.0	14.4	15.0	14.4	14.4	15.0	14.4	15.6	16.1	16.1	15.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.2	5.8	5.8	5.8



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.2	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°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	132.6	133.2	130.9	130.3	129.7	126.8	125.1	123.4	121.6	118.8	119.9
5°	177.6	177.6	172.4	168.9	167.2	160.8	158.0	153.9	149.3	145.8	144.1
7.5°	247.9	243.8	232.3	223.7	218.5	205.8	198.3	187.4	181.0	174.1	170.1
10°	525.7	498.6	442.2	401.8	363.8	317.6	275.6	242.7	221.4	205.8	196.0
11°	708.5	672.7	600.7	544.8	495.2	429.5	364.9	303.2	258.8	231.7	211.6
12°	909.1	863.0	776.5	707.3	646.8	564.4	481.9	400.6	336.7	285.9	244.4
13°	1117.8	1058.4	958.1	878.5	808.8	713.7	615.7	518.2	440.4	371.2	308.4
14°	1324.7	1252.1	1142.0	1050.3	971.9	865.9	754.6	646.2	555.1	468.1	391.4
15°	1512.7	1433.1	1336.3	1216.3	1131.6	995.6	890.6	769.0	665.2	564.4	475.0
17.5°	1849.9	1742.7	1628.5	1504.6	1423.9	1289.6	1156.4	1009.4	883.7	758.6	638.7
20°	2220.6	2029.2	1841.2	1656.8	1539.7	1396.8	1266.5	1121.2	988.6	846.8	716.6
21°	2366.4	2147.3	1918.5	1711.5	1578.9	1426.2	1291.3	1140.8	1001.3	850.3	713.1
22°	2504.8	2243.0	1985.9	1757.7	1613.0	1456.7	1311.5	1153.5	1004.8	846.3	702.7
23°	2631.0	2335.3	2048.2	1798.0	1637.7	1471.7	1321.8	1158.7	1003.1	837.0	687.2
24°	2745.7	2420.0	2101.2	1828.0	1652.7	1476.3	1320.7	1154.7	994.4	823.2	665.8
25°	2844.9	2486.9	2139.9	1844.1	1656.8	1474.0	1314.9	1144.3	977.1	799.6	641.0
26°	2919.8	2529.5	2158.3	1846.4	1651.0	1466.5	1301.7	1125.3	950.0	767.9	607.6
27°	2963.1	2545.1	2158.3	1836.6	1639.5	1452.7	1280.3	1095.9	914.9	728.7	566.1
28°	2970.5	2538.2	2142.7	1816.5	1617.6	1428.5	1249.2	1058.4	873.4	682.0	520.6
29°	2950.9	2510.5	2109.3	1781.9	1585.3	1397.4	1208.9	1011.1	823.8	630.7	473.3
30°	2902.5	2459.8	2059.7	1738.1	1546.7	1356.4	1158.1	958.7	767.9	577.6	419.1
31°	2827.0	2386.6	1996.3	1685.0	1498.8	1307.4	1102.2	898.1	705.0	511.9	360.3
32°	2726.7	2284.0	1926.0	1624.5	1445.8	1251.5	1032.5	820.9	622.0	431.8	292.3
33°	2608.5	2183.7	1847.6	1559.3	1388.1	1174.8	936.2	705.6	520.6	342.4	221.4
34°	2473.6	2075.9	1763.4	1490.7	1312.6	1062.4	816.3	586.8	409.3	250.2	156.2
35°	2324.3	1961.1	1675.2	1410.0	1193.3	925.2	679.1	457.1	296.3	169.5	117.6
36°	2165.2	1832.6	1574.3	1294.7	1050.3	771.3	533.8	329.2	196.6	126.2	101.5
37°	2015.3	1720.8	1470.0	1150.1	888.9	610.5	389.7	219.6	143.5	110.1	89.9
38°	1874.1	1613.0	1333.9	989.8	722.9	457.7	256.5	162.0	124.5	96.8	79.6
39°	1742.1	1504.6	1174.8	818.0	556.9	322.8	186.2	138.9	108.4	85.9	70.3
40°	1614.7	1349.5	1001.3	667.0	405.8	225.4	156.8	122.8	95.7	75.5	59.4
42.5°	1211.2	867.0	554.6	303.8	190.8	147.0	111.8	86.5	63.4	46.7	35.7
45°	760.4	441.0	238.1	170.6	133.2	99.7	72.6	51.9	38.0	28.2	22.5
47.5°	345.9	189.7	147.6	114.1	85.9	59.4	42.7	31.1	23.1	17.9	13.3
50°	126.8	107.8	87.6	65.1	47.3	34.0	24.8	18.4	13.8	10.4	7.5
51°	99.2	86.5	69.8	49.0	37.5	27.7	20.2	15.0	11.0	8.1	5.8
52°	77.8	68.6	53.6	38.0	29.4	21.9	16.1	11.5	8.1	6.3	4.6
53°	60.0	52.5	40.4	29.4	23.1	17.3	12.7	9.2	6.3	4.6	3.5
54°	44.4	38.6	30.0	22.5	17.9	13.3	9.2	6.9	4.6	3.5	2.9
55°	31.7	28.2	22.5	17.9	13.8	10.4	6.9	5.2	3.5	2.3	2.3
57.5°	13.3	12.7	10.4	8.6	6.9	5.2	3.5	2.3	2.3	1.7	2.3
60°	5.2	5.2	4.6	3.5	2.9	2.3	1.7	1.7	1.7	1.7	1.7





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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°	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3
64°	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	2.3
65°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	2.3
66°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	2.3
67.5°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	2.3	2.3
70°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	2.3	2.3
72.5°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3
75°	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3
77.5°	0.6	1.2	1.2	1.2	1.7	1.7	1.7	1.7	2.3	2.3	2.3
80°	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3
82.5°	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3
85°	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3
87.5°	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3
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: P208864

CATALOG NUMBER: LDSQA6A20927D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	118.2	118.2	114.1	113.0	112.4	111.3	108.4	108.4	106.6	104.3	103.2
5°	140.1	138.9	132.6	129.1	126.2	122.8	117.0	114.7	111.3	107.8	104.9
7.5°	161.4	157.4	147.6	142.4	138.4	132.6	125.1	119.9	114.1	108.4	104.3
10°	182.7	174.7	160.8	152.2	144.7	136.6	127.4	121.6	114.1	106.6	100.9
11°	191.4	181.0	165.4	154.5	145.8	136.6	127.4	119.9	113.0	105.5	99.2
12°	208.1	188.5	170.1	158.0	147.0	136.6	126.2	118.2	110.7	103.2	96.8
13°	242.1	205.8	175.2	160.8	148.7	136.6	125.1	116.4	108.4	100.9	94.0
14°	303.8	241.5	189.1	163.7	149.3	136.6	123.9	113.6	105.5	97.4	91.1
15°	373.6	296.3	217.3	174.1	149.9	135.5	121.6	110.7	102.0	94.0	87.6
17.5°	518.2	414.5	307.8	226.0	164.3	132.0	113.0	102.0	92.2	84.2	76.7
20°	577.0	456.6	336.7	242.1	170.1	126.2	103.2	91.7	81.3	73.2	66.9
21°	569.6	448.5	328.0	231.2	159.1	118.2	98.0	87.0	77.2	68.6	62.8
22°	554.0	429.5	307.8	211.0	145.8	110.1	93.4	81.9	72.6	64.6	58.8
23°	533.2	402.4	284.8	189.7	132.0	102.6	88.8	77.2	68.6	60.5	55.3
24°	507.3	375.3	258.3	168.3	118.8	96.8	83.6	72.6	64.0	57.1	51.9
25°	478.5	347.0	230.0	150.5	110.7	91.1	77.8	67.4	60.0	53.6	48.4
26°	443.3	313.6	203.5	133.7	100.9	84.7	72.1	62.8	55.9	50.2	45.0
27°	403.0	279.0	174.1	116.4	92.8	78.4	66.9	58.8	52.5	46.7	41.5
28°	366.6	240.4	149.3	103.8	86.5	72.1	62.3	54.8	49.0	43.2	38.6
29°	321.1	203.5	127.4	94.0	79.6	67.4	57.6	50.7	45.0	39.2	35.2
30°	275.6	168.3	109.0	85.9	72.6	61.7	53.0	46.7	40.9	36.3	32.9
31°	228.3	139.5	95.7	79.0	66.3	57.1	49.0	43.2	37.5	33.4	30.0
32°	174.7	114.1	85.3	71.5	60.5	51.3	45.0	39.2	34.0	30.6	27.1
33°	131.4	96.3	77.2	64.6	54.8	47.3	40.9	35.2	31.1	27.7	24.8
34°	104.9	85.9	69.8	58.2	49.6	42.7	36.3	31.7	27.7	24.8	21.9
35°	92.2	77.2	62.3	52.5	44.4	37.5	32.3	28.2	24.8	21.9	19.6
36°	81.9	69.2	55.3	46.7	38.6	32.9	28.2	24.8	21.3	19.0	17.3
37°	73.2	61.1	49.0	40.4	33.4	28.8	24.8	21.3	18.4	16.7	15.6
38°	65.7	52.5	41.5	34.6	28.8	24.8	21.3	18.4	16.1	14.4	13.3
39°	55.9	44.4	34.6	29.4	24.2	20.8	17.9	16.1	13.8	12.7	11.5
40°	46.7	36.9	28.8	24.2	20.8	17.3	15.6	13.3	12.1	11.0	9.8
42.5°	28.8	23.1	18.4	15.6	13.3	11.5	10.4	9.2	8.1	7.5	6.9
45°	17.9	14.4	11.5	9.8	8.1	7.5	6.9	5.8	5.8	5.2	5.2
47.5°	10.4	8.6	6.3	5.8	4.6	4.6	4.0	4.0	3.5	4.0	3.5
50°	5.8	4.0	3.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
51°	4.6	3.5	2.9	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9
52°	3.5	2.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
53°	2.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
54°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
55°	2.3	2.3	2.3	2.3	2.3	1.7	2.3	2.3	2.3	2.3	2.3
57.5°	2.3	2.3	1.7	1.7	2.3	1.7	2.3	2.3	2.3	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



TEST NUMBER: P208864

CATALOG NUMBER: LDSQA6A20927D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
64°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
66°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	2.3	2.3	2.3	2.9	2.9	2.9	2.9	2.3	2.3	2.3	2.3
72.5°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.3
75°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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: P208864

CATALOG NUMBER: LDSQA6A20927D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	102.6	102.6	102.0	100.9	92.2	84.7	80.1	79.6
5°	103.2	102.0	99.7	98.0	82.4	72.6	66.9	66.3
7.5°	100.9	98.6	95.7	92.2	73.2	62.8	57.6	56.5
10°	96.8	92.8	89.4	84.7	64.6	54.8	50.2	49.0
11°	94.0	89.9	86.5	81.9	61.1	51.9	47.3	46.7
12°	91.7	87.0	82.4	78.4	57.6	49.0	45.0	44.4
13°	88.2	83.6	79.6	74.9	54.8	46.7	42.7	42.1
14°	85.3	80.1	76.1	72.1	51.9	43.8	40.9	40.4
15°	81.9	76.7	72.1	68.0	49.0	41.5	39.2	38.6
17.5°	72.6	66.9	62.8	58.8	42.1	36.3	34.6	35.2
20°	61.7	57.1	53.6	50.2	35.7	31.7	31.1	31.7
21°	57.6	53.6	50.7	47.3	33.4	30.0	30.0	30.6
22°	54.2	50.2	47.3	43.8	31.7	28.2	28.2	29.4
23°	50.7	46.7	43.8	40.9	29.4	27.1	27.1	28.2
24°	47.3	43.8	40.9	38.0	27.7	25.4	25.9	27.1
25°	43.8	40.9	38.0	35.7	25.9	24.2	24.8	25.9
26°	41.5	38.0	35.7	32.9	24.2	23.1	23.6	25.4
27°	38.0	35.2	32.9	30.6	23.1	21.9	23.1	24.2
28°	35.7	32.9	30.6	28.2	21.3	20.8	21.9	23.6
29°	32.9	30.6	28.2	26.5	20.2	19.6	21.3	22.5
30°	30.0	27.7	25.9	24.2	19.0	18.4	20.2	21.9
31°	27.7	25.9	24.2	22.5	17.9	17.9	19.6	21.3
32°	25.4	23.6	21.9	20.2	16.7	16.7	19.0	20.2
33°	23.1	21.3	19.6	18.4	15.6	16.1	17.9	19.6
34°	20.2	19.0	17.9	16.7	14.4	15.0	17.3	19.0
35°	18.4	17.3	16.1	15.0	13.8	14.4	16.7	18.4
36°	16.1	15.6	14.4	13.8	12.7	13.8	16.1	17.9
37°	14.4	13.8	12.7	12.1	12.1	13.3	15.6	17.3
38°	12.7	12.1	11.5	11.0	11.5	12.7	15.0	16.7
39°	11.0	10.4	10.4	9.8	11.0	12.1	14.4	16.1
40°	9.8	9.2	9.2	8.6	10.4	11.5	13.8	16.1
42.5°	6.9	6.9	6.9	6.9	8.6	10.4	12.7	15.0
45°	5.2	5.2	5.2	5.2	7.5	9.2	11.0	13.8
47.5°	4.0	4.0	4.0	4.0	6.9	8.6	10.4	12.1
50°	2.9	2.9	3.5	3.5	6.3	7.5	9.2	11.0
51°	2.9	2.9	2.9	3.5	5.8	7.5	8.6	10.4
52°	2.9	2.9	2.9	2.9	5.8	6.9	8.1	9.2
53°	2.3	2.9	2.9	2.9	5.2	6.9	7.5	8.6
54°	2.3	2.3	2.3	2.9	5.2	6.3	6.9	8.1
55°	2.3	2.3	2.3	2.9	4.6	6.3	6.9	6.9
57.5°	2.3	2.3	2.3	2.3	4.6	5.8	6.3	5.8
60°	2.3	2.3	2.3	2.3	4.0	5.2	5.8	4.0



TEST NUMBER: P208864

CATALOG NUMBER: LDSQA6A20927D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.3	2.3	2.3	2.3	4.0	4.6	4.6	3.5
64°	2.3	2.3	2.3	2.3	4.0	4.6	4.6	3.5
65°	2.3	2.3	2.3	2.3	4.0	4.0	4.0	2.9
66°	2.3	2.3	2.3	2.3	4.0	4.0	4.0	2.9
67.5°	2.3	2.3	2.3	2.3	4.0	4.0	3.5	2.9
70°	2.3	2.3	2.3	2.9	3.5	3.5	3.5	2.9
72.5°	2.3	2.3	2.3	2.9	3.5	3.5	2.9	2.3
75°	2.9	2.9	2.9	2.9	3.5	3.5	2.9	1.7
77.5°	2.9	2.9	2.9	2.9	3.5	2.9	2.3	1.7
80°	2.9	2.9	2.3	2.3	2.9	2.9	1.7	1.2
82.5°	2.9	2.9	2.3	2.3	2.9	2.3	1.7	1.2
85°	2.9	2.9	2.3	2.3	2.9	2.3	1.2	0.6
87.5°	2.9	2.3	2.3	2.3	2.9	2.3	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°	1.7	1.7	1.7	1.7	2.3	1.7	2.3	2.9	3.5	3.5	3.5
62°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3





61°	3.5	3.5	2.9	2.9	2.3	1.7	1.7	1.7	1.7	1.7	1.7
62°	2.3	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3





61°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
62°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3







61°	2.3	2.3	2.3	2.3	4.0	5.2	5.2	4.0
62°	2.3	2.3	2.3	2.3	4.0	4.6	5.2	3.5



(END OF REPORT)