

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: P208860

Luminaire Tested: **LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208860
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: LDSQA6A20827D010TE 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: 1874.8 lumens
Efficiency: N/A
Efficacy: 65.1 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

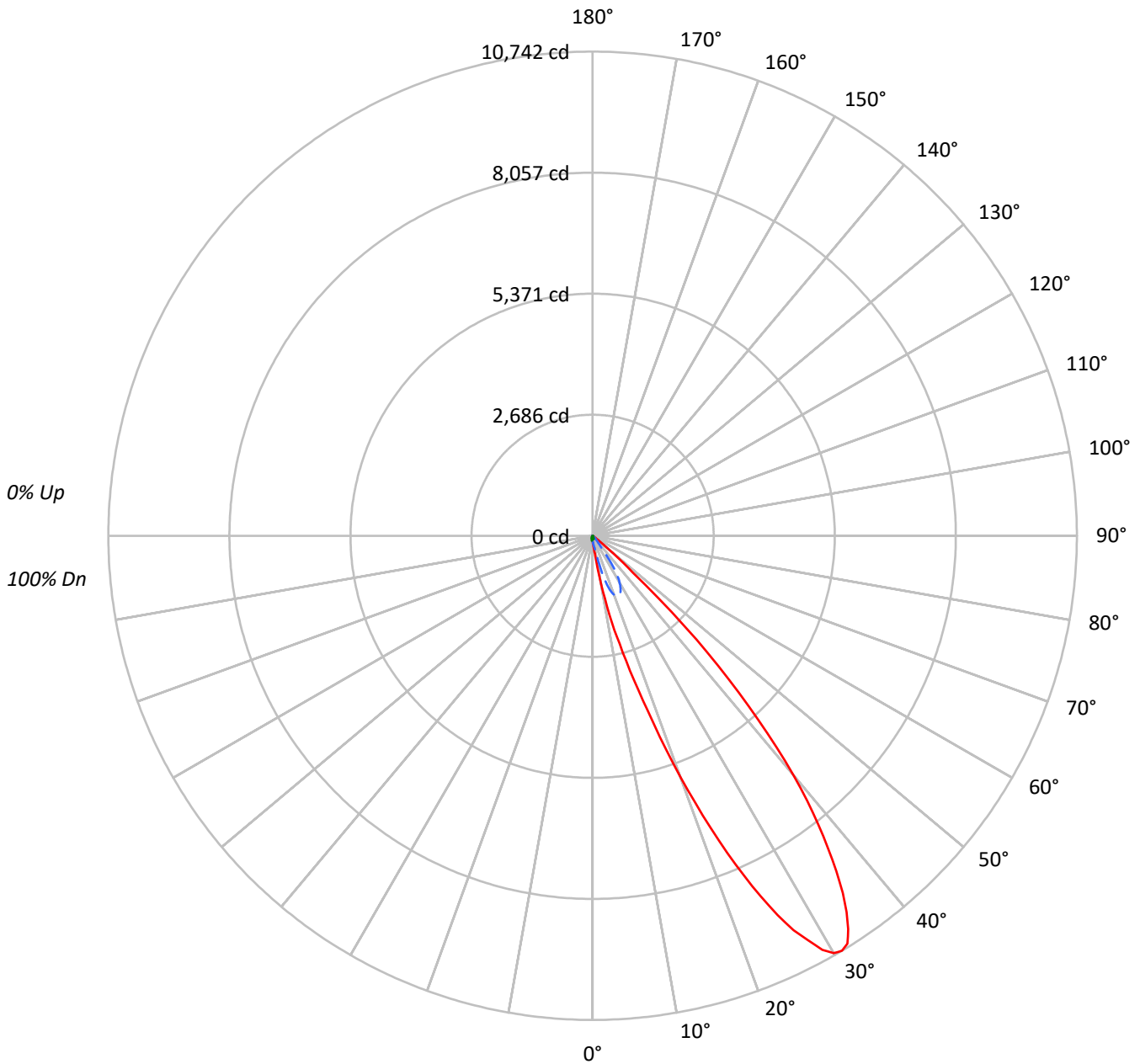
Input Watts (W): 28.81
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

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	80	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°	5442	5442	5442
5°	10866	5277	3570
10°	48861	4617	2671
15°	128094	3780	2144
20°	260810	2864	1810
25°	419664	2114	1534
30°	531563	1501	1357
35°	508488	983	1209
40°	389890	607	1130
45°	198294	396	1047
50°	30403	288	911
55°	3993	270	646
60°	431	250	431
65°	71	295	367
70°	88	453	453
75°	0	599	366
80°	0	719	347
85°	0	1433	346



TEST NUMBER: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	0.9
10°-20°	185.4	9.9
20°-30°	607.0	32.4
30°-40°	738.8	39.4
40°-50°	300.2	16.0
50°-60°	17.8	1.0
60°-70°	3.5	0.2
70°-80°	3.1	0.2
80°-90°	2.2	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°	809.2	43.2
0°-40°	1548.1	82.6
0°-60°	1866.1	99.5
0°-90°	1874.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1874.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	126	126	126	126	126	
5°	251	192	122	90	83	48
15°	2874	958	85	52	48	935
25°	8834	1426	44	30	32	4060
35°	9674	570	19	18	23	5851
45°	3257	65	6	12	17	2498
55°	53	6	4	8	9	92
65°	1	2	3	5	4	1
75°	0	2	4	4	2	0
85°	0	2	3	3	1	0
90°	0	0	0	0	0	



TEST NUMBER: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4
2.5°	178.1	170.2	173.8	173.1	170.2	170.9	172.4	169.5	170.9	166.6	167.4
5°	251.4	239.9	246.4	239.2	242.8	239.2	239.2	234.9	231.3	230.6	227.0
7.5°	438.9	410.8	419.5	388.6	393.6	383.5	374.2	364.2	346.9	338.3	319.6
10°	1117.6	1038.6	1057.3	989.8	988.3	964.6	920.8	890.6	826.7	781.5	716.8
11°	1413.5	1359.7	1376.2	1302.2	1298.6	1266.3	1214.6	1134.1	1098.2	1037.9	957.4
12°	1799.9	1709.4	1719.5	1638.3	1630.4	1587.3	1529.2	1430.0	1387.0	1313.7	1218.9
13°	2151.2	2070.7	2071.4	1983.1	1973.8	1919.2	1855.3	1735.3	1687.2	1605.3	1491.1
14°	2473.7	2412.6	2400.4	2353.0	2302.7	2238.8	2171.3	2035.5	1982.4	1890.4	1759.7
15°	2873.7	2754.5	2730.8	2671.2	2610.1	2529.7	2447.1	2292.0	2233.1	2131.8	2001.8
17.5°	4053.8	3906.6	3841.9	3720.6	3605.6	3451.2	3272.4	2997.3	2861.5	2679.8	2476.5
20°	5692.2	5460.2	5330.2	5135.5	4950.2	4697.4	4388.5	3955.4	3754.3	3402.4	3069.1
21°	6340.8	6141.1	5978.0	5759.0	5539.9	5240.4	4873.4	4415.1	4104.8	3693.3	3302.5
22°	6995.8	6806.2	6615.8	6375.2	6130.3	5780.5	5357.5	4826.0	4453.2	3972.7	3522.3
23°	7640.8	7448.3	7301.8	6972.1	6693.4	6299.1	5830.1	5222.4	4789.3	4238.4	3729.2
24°	8259.9	8049.5	7867.0	7534.5	7219.2	6780.3	6275.4	5607.4	5114.0	4492.0	3921.0
25°	8833.8	8601.8	8377.7	8035.8	7693.2	7214.2	6668.3	5955.8	5409.9	4721.8	4095.5
26°	9361.7	9045.0	8801.5	8485.5	8096.2	7593.4	7013.8	6256.7	5664.9	4913.6	4232.7
27°	9819.3	9498.9	9219.5	8881.2	8446.7	7905.1	7298.9	6472.9	5866.7	5057.2	4328.2
28°	10151.8	9881.0	9559.3	9195.1	8717.5	8119.9	7492.1	6645.3	5988.1	5131.9	4367.7
29°	10504.5	10196.3	9821.4	9407.7	8887.7	8254.9	7598.4	6735.1	6038.4	5149.2	4359.8
30°	10691.9	10408.2	9967.2	9516.2	8961.0	8298.0	7621.4	6748.7	6022.6	5107.5	4308.1
31°	10742.2	10477.2	9988.8	9518.3	8938.0	8255.6	7564.7	6678.3	5937.1	5010.5	4211.8
32°	10669.7	10404.6	9897.6	9426.4	8832.4	8137.1	7439.7	6552.6	5797.8	4865.5	4074.7
33°	10409.0	10194.2	9705.1	9251.8	8671.5	7961.1	7255.8	6347.9	5580.8	4677.3	3909.5
34°	10075.7	9875.3	9424.2	8959.5	8416.5	7719.8	7002.3	6100.1	5331.6	4446.0	3713.4
35°	9674.2	9476.7	9060.8	8598.9	8078.9	7398.7	6677.6	5789.1	5037.1	4184.6	3495.7
36°	9200.8	8995.4	8611.2	8171.6	7698.3	7010.9	6293.4	5431.4	4702.4	3900.1	3263.0
37°	8680.1	8473.3	8129.9	7722.7	7254.4	6574.2	5863.1	5037.1	4349.0	3604.9	3019.5
38°	8130.6	7938.2	7626.4	7219.9	6756.6	6088.6	5392.7	4676.6	3989.2	3306.1	2773.2
39°	7566.8	7364.3	7070.5	6671.2	6215.8	5556.4	4902.1	4262.1	3678.9	3012.4	2546.9
40°	6936.9	6745.9	6405.4	6092.2	5635.4	5007.7	4410.8	3804.6	3334.1	2730.1	2341.5
42.5°	5131.2	4981.8	4800.1	4479.0	4141.5	3691.1	3273.8	2853.6	2511.7	2169.1	1884.0
45°	3256.6	3146.7	3053.3	2853.6	2717.2	2463.6	2248.1	2033.4	1871.8	1692.2	1375.5
47.5°	1205.2	1153.5	1120.5	1032.9	1024.9	943.8	935.9	1039.3	1100.4	1035.7	779.3
50°	453.9	441.0	433.1	405.8	387.1	349.8	321.8	300.9	258.6	229.1	205.4
51°	298.1	288.7	275.1	272.9	265.0	244.2	231.3	227.0	198.2	167.4	143.7
52°	189.6	183.9	175.3	176.0	171.7	158.7	154.4	160.9	145.8	128.6	111.3
53°	119.2	116.4	110.6	110.6	109.9	101.3	99.8	105.6	102.7	94.8	84.8
54°	77.6	76.9	71.8	72.5	72.5	67.5	66.8	69.0	68.2	65.4	60.3
55°	53.2	52.4	51.7	49.6	48.1	46.7	46.7	47.4	46.7	45.3	42.4
57.5°	18.7	18.0	18.7	18.0	18.0	18.7	18.0	19.4	20.1	20.1	18.7
60°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.5	7.2	7.2	7.2



TEST NUMBER: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	1.4	1.4	1.4
64°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
66°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
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°	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4
2.5°	165.2	165.9	163.0	162.3	161.6	158.0	155.9	153.7	151.6	148.0	149.4
5°	221.2	221.2	214.8	210.4	208.3	200.4	196.8	191.8	186.0	181.7	179.6
7.5°	308.8	303.8	289.5	278.7	272.2	256.4	247.1	233.4	225.5	216.9	211.9
10°	655.0	621.3	550.9	500.6	453.2	395.8	343.3	302.4	275.8	256.4	244.2
11°	882.7	838.2	748.4	678.8	617.0	535.1	454.7	377.8	322.5	288.7	263.6
12°	1132.7	1075.2	967.5	881.3	805.9	703.2	600.5	499.2	419.5	356.3	304.5
13°	1392.7	1318.7	1193.7	1094.6	1007.7	889.2	767.1	645.7	548.7	462.6	384.3
14°	1650.6	1560.1	1422.9	1308.7	1211.0	1078.8	940.2	805.2	691.7	583.2	487.7
15°	1884.7	1785.6	1664.9	1515.5	1409.9	1240.4	1109.7	958.2	828.9	703.2	591.8
17.5°	2304.9	2171.3	2029.1	1874.6	1774.1	1606.7	1440.8	1257.7	1101.1	945.2	795.8
20°	2766.7	2528.3	2294.1	2064.3	1918.5	1740.3	1578.0	1397.0	1231.8	1055.1	892.8
21°	2948.4	2675.5	2390.4	2132.5	1967.3	1777.0	1608.9	1421.4	1247.6	1059.4	888.5
22°	3120.8	2794.7	2474.4	2190.0	2009.7	1815.0	1634.0	1437.2	1251.9	1054.4	875.6
23°	3278.1	2909.7	2552.0	2240.2	2040.6	1833.7	1647.0	1443.7	1249.8	1042.9	856.2
24°	3421.0	3015.2	2618.0	2277.6	2059.2	1839.5	1645.5	1438.7	1239.0	1025.7	829.6
25°	3544.6	3098.6	2666.2	2297.7	2064.3	1836.6	1638.3	1425.7	1217.4	996.2	798.7
26°	3638.0	3151.7	2689.1	2300.6	2057.1	1827.2	1621.8	1402.0	1183.7	956.7	757.0
27°	3691.8	3171.1	2689.1	2288.4	2042.7	1810.0	1595.2	1365.4	1139.9	907.9	705.3
28°	3701.2	3162.5	2669.8	2263.2	2015.4	1779.8	1556.5	1318.7	1088.2	849.7	648.6
29°	3676.7	3128.0	2628.1	2220.1	1975.2	1741.1	1506.2	1259.8	1026.4	785.8	589.7
30°	3616.4	3064.8	2566.3	2165.5	1927.1	1690.1	1443.0	1194.5	956.7	719.7	522.2
31°	3522.3	2973.6	2487.3	2099.5	1867.5	1629.0	1373.3	1119.0	878.4	637.8	448.9
32°	3397.3	2845.7	2399.7	2024.0	1801.4	1559.3	1286.4	1022.8	775.0	538.0	364.2
33°	3250.1	2720.8	2302.0	1942.9	1729.6	1463.8	1166.4	879.1	648.6	426.6	275.8
34°	3082.0	2586.4	2197.1	1857.4	1635.5	1323.7	1017.0	731.2	510.0	311.7	194.6
35°	2896.0	2443.5	2087.2	1756.9	1486.8	1152.8	846.1	569.6	369.2	211.2	146.5
36°	2697.8	2283.3	1961.6	1613.2	1308.7	961.0	665.1	410.1	244.9	157.3	126.4
37°	2511.0	2144.0	1831.6	1432.9	1107.5	760.6	485.5	273.7	178.8	137.2	112.0
38°	2335.0	2009.7	1662.0	1233.2	900.7	570.3	319.6	201.8	155.1	120.7	99.1
39°	2170.6	1874.6	1463.8	1019.2	693.8	402.2	232.0	173.1	135.0	107.0	87.6
40°	2011.8	1681.4	1247.6	831.0	505.7	280.8	195.4	153.0	119.2	94.1	74.0
42.5°	1509.1	1080.3	691.0	378.5	237.7	183.2	139.3	107.7	79.0	58.2	44.5
45°	947.4	549.5	296.6	212.6	165.9	124.3	90.5	64.6	47.4	35.2	28.0
47.5°	431.0	236.3	183.9	142.2	107.0	74.0	53.2	38.8	28.7	22.3	16.5
50°	158.0	134.3	109.2	81.2	58.9	42.4	30.9	23.0	17.2	12.9	9.3
51°	123.5	107.7	86.9	61.1	46.7	34.5	25.1	18.7	13.6	10.1	7.2
52°	97.0	85.5	66.8	47.4	36.6	27.3	20.1	14.4	10.1	7.9	5.7
53°	74.7	65.4	50.3	36.6	28.7	21.5	15.8	11.5	7.9	5.7	4.3
54°	55.3	48.1	37.3	28.0	22.3	16.5	11.5	8.6	5.7	4.3	3.6
55°	39.5	35.2	28.0	22.3	17.2	12.9	8.6	6.5	4.3	2.9	2.9
57.5°	16.5	15.8	12.9	10.8	8.6	6.5	4.3	2.9	2.9	2.2	2.9
60°	6.5	6.5	5.7	4.3	3.6	2.9	2.2	2.2	2.2	2.2	2.2



TEST NUMBER: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	1.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9
64°	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2	2.9
65°	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.9
66°	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.9
67.5°	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2	2.9	2.9
70°	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2	2.9	2.9
72.5°	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.9	2.9	2.9
75°	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.9	2.9	2.9
77.5°	0.7	1.4	1.4	1.4	2.2	2.2	2.2	2.2	2.9	2.9	2.9
80°	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.9	2.9	2.9
82.5°	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.9	2.9	2.9
85°	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.9	2.9	2.9
87.5°	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	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: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4
2.5°	147.2	147.2	142.2	140.8	140.1	138.6	135.0	135.0	132.9	130.0	128.6
5°	174.5	173.1	165.2	160.9	157.3	153.0	145.8	142.9	138.6	134.3	130.7
7.5°	201.1	196.1	183.9	177.4	172.4	165.2	155.9	149.4	142.2	135.0	130.0
10°	227.7	217.6	200.4	189.6	180.3	170.2	158.7	151.6	142.2	132.9	125.7
11°	238.5	225.5	206.1	192.5	181.7	170.2	158.7	149.4	140.8	131.4	123.5
12°	259.3	234.9	211.9	196.8	183.2	170.2	157.3	147.2	137.9	128.6	120.7
13°	301.7	256.4	218.3	200.4	185.3	170.2	155.9	145.1	135.0	125.7	117.1
14°	378.5	300.9	235.6	204.0	186.0	170.2	154.4	141.5	131.4	121.4	113.5
15°	465.4	369.2	270.8	216.9	186.7	168.8	151.6	137.9	127.1	117.1	109.2
17.5°	645.7	516.4	383.5	281.6	204.7	164.5	140.8	127.1	114.9	104.9	95.5
20°	719.0	568.9	419.5	301.7	211.9	157.3	128.6	114.2	101.3	91.2	83.3
21°	709.6	558.8	408.7	288.0	198.2	147.2	122.1	108.5	96.2	85.5	78.3
22°	690.2	535.1	383.5	262.9	181.7	137.2	116.4	102.0	90.5	80.4	73.3
23°	664.4	501.3	354.8	236.3	164.5	127.8	110.6	96.2	85.5	75.4	69.0
24°	632.1	467.6	321.8	209.7	148.0	120.7	104.1	90.5	79.7	71.1	64.6
25°	596.2	432.4	286.6	187.5	137.9	113.5	97.0	84.0	74.7	66.8	60.3
26°	552.3	390.7	253.5	166.6	125.7	105.6	89.8	78.3	69.7	62.5	56.0
27°	502.1	347.6	216.9	145.1	115.6	97.7	83.3	73.3	65.4	58.2	51.7
28°	456.8	299.5	186.0	129.3	107.7	89.8	77.6	68.2	61.1	53.9	48.1
29°	400.1	253.5	158.7	117.1	99.1	84.0	71.8	63.2	56.0	48.8	43.8
30°	343.3	209.7	135.8	107.0	90.5	76.9	66.1	58.2	51.0	45.3	40.9
31°	284.4	173.8	119.2	98.4	82.6	71.1	61.1	53.9	46.7	41.7	37.3
32°	217.6	142.2	106.3	89.1	75.4	63.9	56.0	48.8	42.4	38.1	33.8
33°	163.8	119.9	96.2	80.4	68.2	58.9	51.0	43.8	38.8	34.5	30.9
34°	130.7	107.0	86.9	72.5	61.8	53.2	45.3	39.5	34.5	30.9	27.3
35°	114.9	96.2	77.6	65.4	55.3	46.7	40.2	35.2	30.9	27.3	24.4
36°	102.0	86.2	69.0	58.2	48.1	40.9	35.2	30.9	26.6	23.7	21.5
37°	91.2	76.1	61.1	50.3	41.7	35.9	30.9	26.6	23.0	20.8	19.4
38°	81.9	65.4	51.7	43.1	35.9	30.9	26.6	23.0	20.1	18.0	16.5
39°	69.7	55.3	43.1	36.6	30.2	25.9	22.3	20.1	17.2	15.8	14.4
40°	58.2	46.0	35.9	30.2	25.9	21.5	19.4	16.5	15.1	13.6	12.2
42.5°	35.9	28.7	23.0	19.4	16.5	14.4	12.9	11.5	10.1	9.3	8.6
45°	22.3	18.0	14.4	12.2	10.1	9.3	8.6	7.2	7.2	6.5	6.5
47.5°	12.9	10.8	7.9	7.2	5.7	5.7	5.0	5.0	4.3	5.0	4.3
50°	7.2	5.0	4.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
51°	5.7	4.3	3.6	2.9	2.9	2.9	2.9	2.9	2.9	3.6	3.6
52°	4.3	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
53°	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
54°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
55°	2.9	2.9	2.9	2.9	2.9	2.2	2.9	2.9	2.9	2.9	2.9
57.5°	2.9	2.9	2.2	2.2	2.9	2.2	2.9	2.9	2.9	2.9	2.9
60°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9



TEST NUMBER: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
64°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
65°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
66°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
67.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.9	3.6	3.6	3.6	3.6	2.9	2.9	2.9	2.9
72.5°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.9
75°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4
2.5°	127.8	127.8	127.1	125.7	114.9	105.6	99.8	99.1
5°	128.6	127.1	124.3	122.1	102.7	90.5	83.3	82.6
7.5°	125.7	122.8	119.2	114.9	91.2	78.3	71.8	70.4
10°	120.7	115.6	111.3	105.6	80.4	68.2	62.5	61.1
11°	117.1	112.0	107.7	102.0	76.1	64.6	58.9	58.2
12°	114.2	108.5	102.7	97.7	71.8	61.1	56.0	55.3
13°	109.9	104.1	99.1	93.4	68.2	58.2	53.2	52.4
14°	106.3	99.8	94.8	89.8	64.6	54.6	51.0	50.3
15°	102.0	95.5	89.8	84.8	61.1	51.7	48.8	48.1
17.5°	90.5	83.3	78.3	73.3	52.4	45.3	43.1	43.8
20°	76.9	71.1	66.8	62.5	44.5	39.5	38.8	39.5
21°	71.8	66.8	63.2	58.9	41.7	37.3	37.3	38.1
22°	67.5	62.5	58.9	54.6	39.5	35.2	35.2	36.6
23°	63.2	58.2	54.6	51.0	36.6	33.8	33.8	35.2
24°	58.9	54.6	51.0	47.4	34.5	31.6	32.3	33.8
25°	54.6	51.0	47.4	44.5	32.3	30.2	30.9	32.3
26°	51.7	47.4	44.5	40.9	30.2	28.7	29.4	31.6
27°	47.4	43.8	40.9	38.1	28.7	27.3	28.7	30.2
28°	44.5	40.9	38.1	35.2	26.6	25.9	27.3	29.4
29°	40.9	38.1	35.2	33.0	25.1	24.4	26.6	28.0
30°	37.3	34.5	32.3	30.2	23.7	23.0	25.1	27.3
31°	34.5	32.3	30.2	28.0	22.3	22.3	24.4	26.6
32°	31.6	29.4	27.3	25.1	20.8	20.8	23.7	25.1
33°	28.7	26.6	24.4	23.0	19.4	20.1	22.3	24.4
34°	25.1	23.7	22.3	20.8	18.0	18.7	21.5	23.7
35°	23.0	21.5	20.1	18.7	17.2	18.0	20.8	23.0
36°	20.1	19.4	18.0	17.2	15.8	17.2	20.1	22.3
37°	18.0	17.2	15.8	15.1	15.1	16.5	19.4	21.5
38°	15.8	15.1	14.4	13.6	14.4	15.8	18.7	20.8
39°	13.6	12.9	12.9	12.2	13.6	15.1	18.0	20.1
40°	12.2	11.5	11.5	10.8	12.9	14.4	17.2	20.1
42.5°	8.6	8.6	8.6	8.6	10.8	12.9	15.8	18.7
45°	6.5	6.5	6.5	6.5	9.3	11.5	13.6	17.2
47.5°	5.0	5.0	5.0	5.0	8.6	10.8	12.9	15.1
50°	3.6	3.6	4.3	4.3	7.9	9.3	11.5	13.6
51°	3.6	3.6	3.6	4.3	7.2	9.3	10.8	12.9
52°	3.6	3.6	3.6	3.6	7.2	8.6	10.1	11.5
53°	2.9	3.6	3.6	3.6	6.5	8.6	9.3	10.8
54°	2.9	2.9	2.9	3.6	6.5	7.9	8.6	10.1
55°	2.9	2.9	2.9	3.6	5.7	7.9	8.6	8.6
57.5°	2.9	2.9	2.9	2.9	5.7	7.2	7.9	7.2
60°	2.9	2.9	2.9	2.9	5.0	6.5	7.2	5.0



TEST NUMBER: P208860

CATALOG NUMBER: LDSQA6A20827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.9	2.9	2.9	2.9	5.0	5.7	5.7	4.3
64°	2.9	2.9	2.9	2.9	5.0	5.7	5.7	4.3
65°	2.9	2.9	2.9	2.9	5.0	5.0	5.0	3.6
66°	2.9	2.9	2.9	2.9	5.0	5.0	5.0	3.6
67.5°	2.9	2.9	2.9	2.9	5.0	5.0	4.3	3.6
70°	2.9	2.9	2.9	3.6	4.3	4.3	4.3	3.6
72.5°	2.9	2.9	2.9	3.6	4.3	4.3	3.6	2.9
75°	3.6	3.6	3.6	3.6	4.3	4.3	3.6	2.2
77.5°	3.6	3.6	3.6	3.6	4.3	3.6	2.9	2.2
80°	3.6	3.6	2.9	2.9	3.6	3.6	2.2	1.4
82.5°	3.6	3.6	2.9	2.9	3.6	2.9	2.2	1.4
85°	3.6	3.6	2.9	2.9	3.6	2.9	1.4	0.7
87.5°	3.6	2.9	2.9	2.9	3.6	2.9	0.7	0.7
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°	2.2	2.2	2.2	2.2	2.9	2.2	2.9	3.6	4.3	4.3	4.3
62°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.9





61°	4.3	4.3	3.6	3.6	2.9	2.2	2.2	2.2	2.2	2.2	2.2
62°	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9





61°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
62°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9





61°	2.9	2.9	2.9	2.9	5.0	6.5	6.5	5.0
62°	2.9	2.9	2.9	2.9	5.0	5.7	6.5	4.3



(END OF REPORT)