

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: P208850

Luminaire Tested: **LDSQA6A10935D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208850
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: LDSQA6A10935D010TE 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 / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 877.0 lumens
Efficiency: N/A
Efficacy: 63.9 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

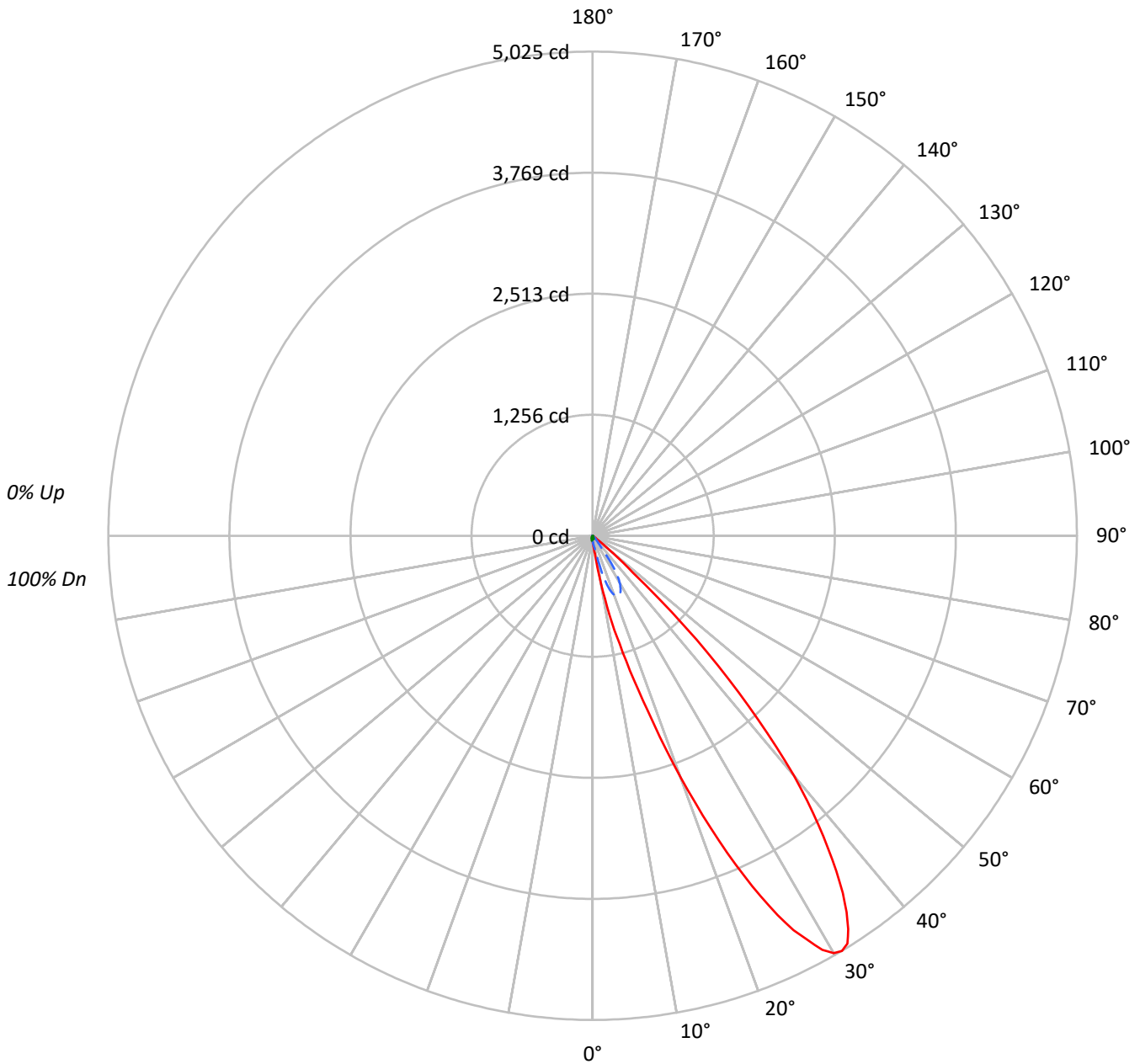
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	2545	2545	2545
5°	5083	2468	1668
10°	22857	2160	1250
15°	59926	1765	1003
20°	122011	1338	848
25°	196326	988	717
30°	248671	701	636
35°	237876	457	568
40°	182397	281	528
45°	92766	183	493
50°	14227	134	429
55°	1869	128	300
60°	207	112	207
65°	31	132	173
70°	38	214	214
75°	0	283	166
80°	0	322	174
85°	0	642	148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.9
10°-20°	86.7	9.9
20°-30°	283.9	32.4
30°-40°	345.6	39.4
40°-50°	140.4	16.0
50°-60°	8.3	1.0
60°-70°	1.6	0.2
70°-80°	1.4	0.2
80°-90°	1.0	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°	378.6	43.2
0°-40°	724.2	82.6
0°-60°	873.0	99.5
0°-90°	877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	118	90	57	42	39	22
15°	1344	448	40	24	22	437
25°	4133	667	21	14	15	1899
35°	4526	266	9	8	11	2737
45°	1524	30	3	5	8	1169
55°	25	3	2	4	4	43
65°	0	1	1	2	2	1
75°	0	1	2	2	1	0
85°	0	1	1	1	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°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	83.3	79.6	81.3	81.0	79.6	80.0	80.6	79.3	80.0	78.0	78.3
5°	117.6	112.2	115.3	111.9	113.6	111.9	111.9	109.9	108.2	107.9	106.2
7.5°	205.3	192.2	196.2	181.8	184.1	179.4	175.1	170.4	162.3	158.3	149.5
10°	522.8	485.9	494.6	463.0	462.3	451.3	430.8	416.7	386.7	365.6	335.3
11°	661.3	636.1	643.8	609.2	607.5	592.4	568.2	530.6	513.8	485.5	447.9
12°	842.0	799.7	804.4	766.4	762.7	742.6	715.4	669.0	648.8	614.6	570.2
13°	1006.3	968.7	969.0	927.7	923.4	897.8	867.9	811.8	789.3	751.0	697.6
14°	1157.2	1128.7	1122.9	1100.8	1077.2	1047.3	1015.8	952.2	927.4	884.4	823.2
15°	1344.4	1288.6	1277.5	1249.6	1221.1	1183.4	1144.8	1072.2	1044.6	997.3	936.5
17.5°	1896.4	1827.5	1797.3	1740.5	1686.8	1614.5	1530.9	1402.2	1338.7	1253.6	1158.6
20°	2662.9	2554.3	2493.5	2402.5	2315.8	2197.5	2053.0	1850.4	1756.3	1591.7	1435.8
21°	2966.3	2872.9	2796.6	2694.1	2591.6	2451.5	2279.8	2065.4	1920.3	1727.8	1545.0
22°	3272.7	3184.0	3095.0	2982.4	2867.8	2704.2	2506.3	2257.6	2083.3	1858.5	1647.8
23°	3574.5	3484.4	3415.9	3261.6	3131.3	2946.8	2727.4	2443.1	2240.5	1982.8	1744.6
24°	3864.1	3765.6	3680.3	3524.7	3377.2	3171.9	2935.7	2623.2	2392.4	2101.4	1834.3
25°	4132.6	4024.0	3919.2	3759.3	3599.0	3374.9	3119.5	2786.2	2530.8	2208.9	1915.9
26°	4379.5	4231.4	4117.4	3969.6	3787.5	3552.3	3281.1	2927.0	2650.1	2298.6	1980.1
27°	4593.6	4443.7	4313.0	4154.7	3951.5	3698.1	3414.5	3028.1	2744.5	2365.8	2024.8
28°	4749.1	4622.5	4471.9	4301.6	4078.1	3798.6	3504.9	3108.7	2801.3	2400.8	2043.3
29°	4914.1	4770.0	4594.6	4401.0	4157.8	3861.7	3554.6	3150.7	2824.8	2408.8	2039.6
30°	5001.8	4869.1	4662.8	4451.8	4192.0	3881.9	3565.4	3157.1	2817.4	2389.4	2015.4
31°	5025.3	4901.4	4672.9	4452.8	4181.3	3862.1	3538.8	3124.2	2777.4	2344.0	1970.4
32°	4991.4	4867.4	4630.2	4409.8	4131.9	3806.6	3480.4	3065.4	2712.3	2276.1	1906.2
33°	4869.4	4769.0	4540.1	4328.1	4056.6	3724.3	3394.4	2969.6	2610.8	2188.1	1828.9
34°	4713.5	4619.8	4408.8	4191.4	3937.3	3611.4	3275.7	2853.7	2494.2	2079.9	1737.2
35°	4525.7	4433.3	4238.7	4022.7	3779.4	3461.2	3123.9	2708.2	2356.4	1957.6	1635.4
36°	4304.3	4208.2	4028.4	3822.8	3601.3	3279.8	2944.1	2540.9	2199.8	1824.5	1526.5
37°	4060.7	3963.9	3803.3	3612.8	3393.7	3075.5	2742.8	2356.4	2034.5	1686.4	1412.6
38°	3803.6	3713.6	3567.7	3377.6	3160.8	2848.3	2522.7	2187.7	1866.2	1546.6	1297.3
39°	3539.8	3445.1	3307.7	3120.8	2907.8	2599.4	2293.3	1993.9	1721.0	1409.2	1191.5
40°	3245.2	3155.8	2996.5	2850.0	2636.3	2342.6	2063.4	1779.8	1559.7	1277.2	1095.4
42.5°	2400.4	2330.6	2245.5	2095.3	1937.4	1726.7	1531.5	1335.0	1175.0	1014.7	881.3
45°	1523.5	1472.1	1428.4	1335.0	1271.1	1152.5	1051.7	951.2	875.6	791.6	643.5
47.5°	563.8	539.6	524.2	483.2	479.5	441.5	437.8	486.2	514.8	484.5	364.6
50°	212.4	206.3	202.6	189.8	181.1	163.6	150.5	140.8	121.0	107.2	96.1
51°	139.4	135.1	128.7	127.7	124.0	114.2	108.2	106.2	92.7	78.3	67.2
52°	88.7	86.0	82.0	82.3	80.3	74.3	72.2	75.3	68.2	60.1	52.1
53°	55.8	54.4	51.7	51.7	51.4	47.4	46.7	49.4	48.0	44.4	39.6
54°	36.3	36.0	33.6	33.9	33.9	31.6	31.2	32.3	31.9	30.6	28.2
55°	24.9	24.5	24.2	23.2	22.5	21.8	21.8	22.2	21.8	21.2	19.8
57.5°	8.7	8.4	8.7	8.4	8.4	8.7	8.4	9.1	9.4	9.4	8.7
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.4	3.4	3.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.7	0.7	0.7
64°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
66°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
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°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	77.3	77.6	76.3	75.9	75.6	73.9	72.9	71.9	70.9	69.2	69.9
5°	103.5	103.5	100.5	98.5	97.4	93.7	92.1	89.7	87.0	85.0	84.0
7.5°	144.5	142.1	135.4	130.4	127.3	120.0	115.6	109.2	105.5	101.5	99.1
10°	306.4	290.6	257.7	234.2	212.0	185.1	160.6	141.5	129.0	120.0	114.2
11°	413.0	392.1	350.1	317.5	288.6	250.3	212.7	176.7	150.9	135.1	123.3
12°	529.9	503.0	452.6	412.3	377.0	329.0	280.9	233.5	196.2	166.7	142.5
13°	651.5	616.9	558.4	512.1	471.4	416.0	358.9	302.1	256.7	216.4	179.8
14°	772.1	729.8	665.6	612.2	566.5	504.7	439.8	376.7	323.6	272.8	228.1
15°	881.7	835.3	778.9	709.0	659.6	580.3	519.1	448.2	387.8	329.0	276.9
17.5°	1078.3	1015.8	949.2	877.0	829.9	751.7	674.0	588.4	515.1	442.2	372.3
20°	1294.3	1182.7	1073.2	965.7	897.5	814.1	738.2	653.5	576.3	493.6	417.7
21°	1379.3	1251.6	1118.2	997.6	920.3	831.3	752.7	665.0	583.6	495.6	415.6
22°	1460.0	1307.4	1157.5	1024.5	940.2	849.1	764.4	672.4	585.7	493.3	409.6
23°	1533.5	1361.2	1193.8	1048.0	954.6	857.8	770.5	675.4	584.7	487.9	400.5
24°	1600.4	1410.6	1224.7	1065.5	963.3	860.5	769.8	673.0	579.6	479.8	388.1
25°	1658.2	1449.5	1247.3	1074.9	965.7	859.2	766.4	667.0	569.5	466.0	373.6
26°	1701.9	1474.4	1258.0	1076.2	962.3	854.8	758.7	655.9	553.7	447.6	354.2
27°	1727.1	1483.5	1258.0	1070.5	955.6	846.7	746.3	638.8	533.2	424.7	330.0
28°	1731.4	1479.4	1248.9	1058.8	942.8	832.6	728.1	616.9	509.1	397.5	303.4
29°	1720.0	1463.3	1229.5	1038.6	924.0	814.5	704.6	589.4	480.2	367.6	275.9
30°	1691.8	1433.7	1200.6	1013.1	901.5	790.6	675.0	558.8	447.6	336.7	244.3
31°	1647.8	1391.1	1163.6	982.2	873.6	762.1	642.4	523.5	410.9	298.4	210.0
32°	1589.3	1331.3	1122.6	946.9	842.7	729.5	601.8	478.5	362.6	251.7	170.4
33°	1520.4	1272.8	1076.9	908.9	809.1	684.8	545.7	411.3	303.4	199.6	129.0
34°	1441.8	1210.0	1027.8	868.9	765.1	619.3	475.8	342.1	238.6	145.8	91.1
35°	1354.8	1143.1	976.4	821.9	695.5	539.3	395.8	266.5	172.7	98.8	68.5
36°	1262.0	1068.2	917.6	754.7	612.2	449.6	311.1	191.9	114.6	73.6	59.1
37°	1174.7	1003.0	856.8	670.3	518.1	355.8	227.1	128.0	83.7	64.2	52.4
38°	1092.4	940.2	777.5	576.9	421.4	266.8	149.5	94.4	72.6	56.4	46.4
39°	1015.4	877.0	684.8	476.8	324.6	188.2	108.5	81.0	63.2	50.1	41.0
40°	941.2	786.6	583.6	388.8	236.5	131.4	91.4	71.6	55.8	44.0	34.6
42.5°	706.0	505.4	323.2	177.1	111.2	85.7	65.2	50.4	37.0	27.2	20.8
45°	443.2	257.0	138.8	99.5	77.6	58.1	42.3	30.2	22.2	16.5	13.1
47.5°	201.6	110.5	86.0	66.5	50.1	34.6	24.9	18.1	13.4	10.4	7.7
50°	73.9	62.8	51.1	38.0	27.6	19.8	14.4	10.8	8.1	6.0	4.4
51°	57.8	50.4	40.7	28.6	21.8	16.1	11.8	8.7	6.4	4.7	3.4
52°	45.4	40.0	31.2	22.2	17.1	12.8	9.4	6.7	4.7	3.7	2.7
53°	34.9	30.6	23.5	17.1	13.4	10.1	7.4	5.4	3.7	2.7	2.0
54°	25.9	22.5	17.5	13.1	10.4	7.7	5.4	4.0	2.7	2.0	1.7
55°	18.5	16.5	13.1	10.4	8.1	6.0	4.0	3.0	2.0	1.3	1.3
57.5°	7.7	7.4	6.0	5.0	4.0	3.0	2.0	1.3	1.3	1.0	1.3
60°	3.0	3.0	2.7	2.0	1.7	1.3	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
64°	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.3
65°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.3
66°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.3
67.5°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.3	1.3
70°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.3	1.3
72.5°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3
75°	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3
77.5°	0.3	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.3	1.3	1.3
80°	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3
82.5°	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3
85°	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3
87.5°	0.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.3	1.3	1.3
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: P208850

CATALOG NUMBER: LDSQA6A10935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	68.9	68.9	66.5	65.9	65.5	64.8	63.2	63.2	62.2	60.8	60.1
5°	81.6	81.0	77.3	75.3	73.6	71.6	68.2	66.9	64.8	62.8	61.2
7.5°	94.1	91.7	86.0	83.0	80.6	77.3	72.9	69.9	66.5	63.2	60.8
10°	106.5	101.8	93.7	88.7	84.3	79.6	74.3	70.9	66.5	62.2	58.8
11°	111.6	105.5	96.4	90.1	85.0	79.6	74.3	69.9	65.9	61.5	57.8
12°	121.3	109.9	99.1	92.1	85.7	79.6	73.6	68.9	64.5	60.1	56.4
13°	141.1	120.0	102.1	93.7	86.7	79.6	72.9	67.9	63.2	58.8	54.8
14°	177.1	140.8	110.2	95.4	87.0	79.6	72.2	66.2	61.5	56.8	53.1
15°	217.7	172.7	126.7	101.5	87.4	79.0	70.9	64.5	59.5	54.8	51.1
17.5°	302.1	241.6	179.4	131.7	95.8	76.9	65.9	59.5	53.8	49.1	44.7
20°	336.3	266.1	196.2	141.1	99.1	73.6	60.1	53.4	47.4	42.7	39.0
21°	332.0	261.4	191.2	134.7	92.7	68.9	57.1	50.7	45.0	40.0	36.6
22°	322.9	250.3	179.4	123.0	85.0	64.2	54.4	47.7	42.3	37.6	34.3
23°	310.8	234.5	166.0	110.5	76.9	59.8	51.7	45.0	40.0	35.3	32.3
24°	295.7	218.7	150.5	98.1	69.2	56.4	48.7	42.3	37.3	33.3	30.2
25°	278.9	202.3	134.1	87.7	64.5	53.1	45.4	39.3	34.9	31.2	28.2
26°	258.4	182.8	118.6	78.0	58.8	49.4	42.0	36.6	32.6	29.2	26.2
27°	234.9	162.6	101.5	67.9	54.1	45.7	39.0	34.3	30.6	27.2	24.2
28°	213.7	140.1	87.0	60.5	50.4	42.0	36.3	31.9	28.6	25.2	22.5
29°	187.2	118.6	74.3	54.8	46.4	39.3	33.6	29.6	26.2	22.8	20.5
30°	160.6	98.1	63.5	50.1	42.3	36.0	30.9	27.2	23.9	21.2	19.2
31°	133.1	81.3	55.8	46.0	38.6	33.3	28.6	25.2	21.8	19.5	17.5
32°	101.8	66.5	49.7	41.7	35.3	29.9	26.2	22.8	19.8	17.8	15.8
33°	76.6	56.1	45.0	37.6	31.9	27.6	23.9	20.5	18.1	16.1	14.4
34°	61.2	50.1	40.7	33.9	28.9	24.9	21.2	18.5	16.1	14.4	12.8
35°	53.8	45.0	36.3	30.6	25.9	21.8	18.8	16.5	14.4	12.8	11.4
36°	47.7	40.3	32.3	27.2	22.5	19.2	16.5	14.4	12.4	11.1	10.1
37°	42.7	35.6	28.6	23.5	19.5	16.8	14.4	12.4	10.8	9.7	9.1
38°	38.3	30.6	24.2	20.2	16.8	14.4	12.4	10.8	9.4	8.4	7.7
39°	32.6	25.9	20.2	17.1	14.1	12.1	10.4	9.4	8.1	7.4	6.7
40°	27.2	21.5	16.8	14.1	12.1	10.1	9.1	7.7	7.1	6.4	5.7
42.5°	16.8	13.4	10.8	9.1	7.7	6.7	6.0	5.4	4.7	4.4	4.0
45°	10.4	8.4	6.7	5.7	4.7	4.4	4.0	3.4	3.4	3.0	3.0
47.5°	6.0	5.0	3.7	3.4	2.7	2.7	2.4	2.4	2.0	2.4	2.0
50°	3.4	2.4	2.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
51°	2.7	2.0	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7
52°	2.0	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
53°	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
54°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
55°	1.3	1.3	1.3	1.3	1.3	1.0	1.3	1.3	1.3	1.3	1.3
57.5°	1.3	1.3	1.0	1.0	1.3	1.0	1.3	1.3	1.3	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



TEST NUMBER: P208850

CATALOG NUMBER: LDSQA6A10935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
64°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
66°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.3	1.3	1.3	1.3
72.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.3
75°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: P208850

CATALOG NUMBER: LDSQA6A10935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	59.8	59.8	59.5	58.8	53.8	49.4	46.7	46.4
5°	60.1	59.5	58.1	57.1	48.0	42.3	39.0	38.6
7.5°	58.8	57.5	55.8	53.8	42.7	36.6	33.6	32.9
10°	56.4	54.1	52.1	49.4	37.6	31.9	29.2	28.6
11°	54.8	52.4	50.4	47.7	35.6	30.2	27.6	27.2
12°	53.4	50.7	48.0	45.7	33.6	28.6	26.2	25.9
13°	51.4	48.7	46.4	43.7	31.9	27.2	24.9	24.5
14°	49.7	46.7	44.4	42.0	30.2	25.5	23.9	23.5
15°	47.7	44.7	42.0	39.6	28.6	24.2	22.8	22.5
17.5°	42.3	39.0	36.6	34.3	24.5	21.2	20.2	20.5
20°	36.0	33.3	31.2	29.2	20.8	18.5	18.1	18.5
21°	33.6	31.2	29.6	27.6	19.5	17.5	17.5	17.8
22°	31.6	29.2	27.6	25.5	18.5	16.5	16.5	17.1
23°	29.6	27.2	25.5	23.9	17.1	15.8	15.8	16.5
24°	27.6	25.5	23.9	22.2	16.1	14.8	15.1	15.8
25°	25.5	23.9	22.2	20.8	15.1	14.1	14.4	15.1
26°	24.2	22.2	20.8	19.2	14.1	13.4	13.8	14.8
27°	22.2	20.5	19.2	17.8	13.4	12.8	13.4	14.1
28°	20.8	19.2	17.8	16.5	12.4	12.1	12.8	13.8
29°	19.2	17.8	16.5	15.5	11.8	11.4	12.4	13.1
30°	17.5	16.1	15.1	14.1	11.1	10.8	11.8	12.8
31°	16.1	15.1	14.1	13.1	10.4	10.4	11.4	12.4
32°	14.8	13.8	12.8	11.8	9.7	9.7	11.1	11.8
33°	13.4	12.4	11.4	10.8	9.1	9.4	10.4	11.4
34°	11.8	11.1	10.4	9.7	8.4	8.7	10.1	11.1
35°	10.8	10.1	9.4	8.7	8.1	8.4	9.7	10.8
36°	9.4	9.1	8.4	8.1	7.4	8.1	9.4	10.4
37°	8.4	8.1	7.4	7.1	7.1	7.7	9.1	10.1
38°	7.4	7.1	6.7	6.4	6.7	7.4	8.7	9.7
39°	6.4	6.0	6.0	5.7	6.4	7.1	8.4	9.4
40°	5.7	5.4	5.4	5.0	6.0	6.7	8.1	9.4
42.5°	4.0	4.0	4.0	4.0	5.0	6.0	7.4	8.7
45°	3.0	3.0	3.0	3.0	4.4	5.4	6.4	8.1
47.5°	2.4	2.4	2.4	2.4	4.0	5.0	6.0	7.1
50°	1.7	1.7	2.0	2.0	3.7	4.4	5.4	6.4
51°	1.7	1.7	1.7	2.0	3.4	4.4	5.0	6.0
52°	1.7	1.7	1.7	1.7	3.4	4.0	4.7	5.4
53°	1.3	1.7	1.7	1.7	3.0	4.0	4.4	5.0
54°	1.3	1.3	1.3	1.7	3.0	3.7	4.0	4.7
55°	1.3	1.3	1.3	1.7	2.7	3.7	4.0	4.0
57.5°	1.3	1.3	1.3	1.3	2.7	3.4	3.7	3.4
60°	1.3	1.3	1.3	1.3	2.4	3.0	3.4	2.4



TEST NUMBER: P208850

CATALOG NUMBER: LDSQA6A10935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.3	1.3	1.3	1.3	2.4	2.7	2.7	2.0
64°	1.3	1.3	1.3	1.3	2.4	2.7	2.7	2.0
65°	1.3	1.3	1.3	1.3	2.4	2.4	2.4	1.7
66°	1.3	1.3	1.3	1.3	2.4	2.4	2.4	1.7
67.5°	1.3	1.3	1.3	1.3	2.4	2.4	2.0	1.7
70°	1.3	1.3	1.3	1.7	2.0	2.0	2.0	1.7
72.5°	1.3	1.3	1.3	1.7	2.0	2.0	1.7	1.3
75°	1.7	1.7	1.7	1.7	2.0	2.0	1.7	1.0
77.5°	1.7	1.7	1.7	1.7	2.0	1.7	1.3	1.0
80°	1.7	1.7	1.3	1.3	1.7	1.7	1.0	0.7
82.5°	1.7	1.7	1.3	1.3	1.7	1.3	1.0	0.7
85°	1.7	1.7	1.3	1.3	1.7	1.3	0.7	0.3
87.5°	1.7	1.3	1.3	1.3	1.7	1.3	0.3	0.3
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°	1.0	1.0	1.0	1.0	1.3	1.0	1.3	1.7	2.0	2.0	2.0
62°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.3





61°	2.0	2.0	1.7	1.7	1.3	1.0	1.0	1.0	1.0	1.0	1.0
62°	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3





61°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
62°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3





61°	1.3	1.3	1.3	1.3	2.4	3.0	3.0	2.4
62°	1.3	1.3	1.3	1.3	2.4	2.7	3.0	2.0



(END OF REPORT)