

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: P208849

Luminaire Tested: **LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208849
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: LDSQA6A10930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 868.7 lumens
Efficiency: N/A
Efficacy: 63.3 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

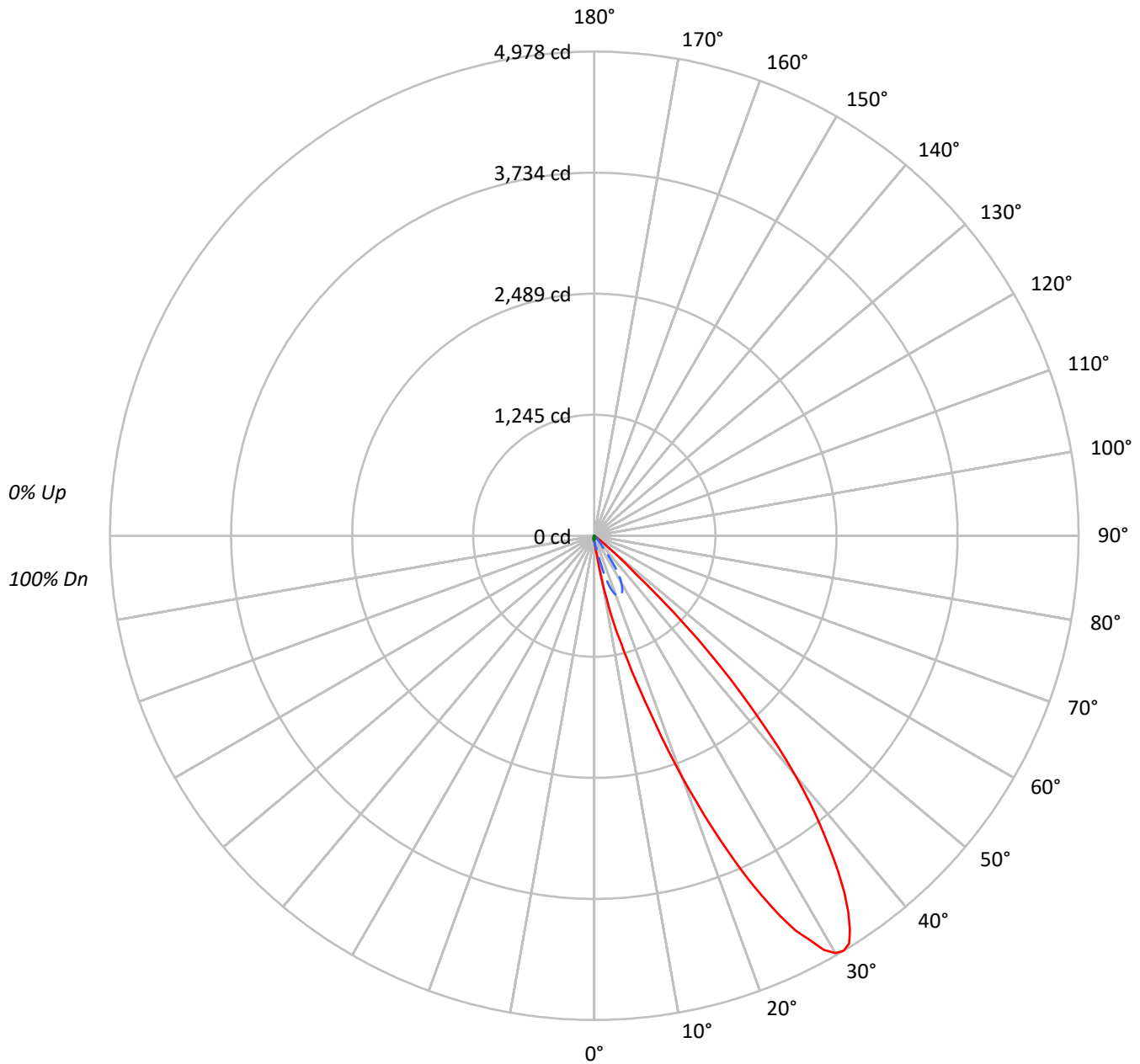
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208849

CATALOG NUMBER: LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°

Luminous Intensity Polar Plot





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CATALOG NUMBER: LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2523	2523	2523
5°	5035	2446	1655
10°	22643	2138	1237
15°	59355	1752	994
20°	120852	1329	838
25°	194459	979	713
30°	246310	696	626
35°	235616	457	562
40°	180660	281	523
45°	91883	183	487
50°	14086	134	422
55°	1847	128	300
60°	198	112	198
65°	31	132	173
70°	38	214	214
75°	0	283	166
80°	0	322	174
85°	0	642	148



TEST NUMBER: P208849

CATALOG NUMBER: LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.9
10°-20°	85.9	9.9
20°-30°	281.2	32.4
30°-40°	342.4	39.4
40°-50°	139.1	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°	375.0	43.2
0°-40°	717.3	82.6
0°-60°	864.7	99.5
0°-90°	868.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	116	89	57	42	38	22
15°	1332	444	39	24	22	433
25°	4093	661	21	14	15	1881
35°	4483	264	9	8	11	2711
45°	1509	30	3	5	8	1158
55°	25	3	2	4	4	42
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	



TEST NUMBER: P208849

CATALOG NUMBER: LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	82.5	78.9	80.5	80.2	78.9	79.2	79.9	78.5	79.2	77.2	77.5
5°	116.5	111.2	114.2	110.8	112.5	110.8	110.8	108.8	107.2	106.8	105.2
7.5°	203.3	190.4	194.4	180.1	182.4	177.7	173.4	168.7	160.7	156.8	148.1
10°	517.9	481.2	489.9	458.6	458.0	447.0	426.7	412.7	383.1	362.1	332.1
11°	655.0	630.0	637.7	603.4	601.7	586.8	562.8	525.5	508.9	480.9	443.6
12°	834.0	792.1	796.8	759.1	755.5	735.5	708.6	662.6	642.7	608.7	564.8
13°	996.8	959.5	959.8	918.9	914.6	889.3	859.7	804.1	781.8	743.8	690.9
14°	1146.2	1117.9	1112.3	1090.3	1067.0	1037.4	1006.1	943.2	918.6	876.0	815.4
15°	1331.6	1276.3	1265.4	1237.7	1209.4	1172.2	1133.9	1062.0	1034.7	987.8	927.6
17.5°	1878.4	1810.2	1780.2	1724.0	1670.7	1599.2	1516.3	1388.8	1325.9	1241.7	1147.5
20°	2637.6	2530.1	2469.8	2379.6	2293.8	2176.6	2033.5	1832.8	1739.6	1576.5	1422.1
21°	2938.1	2845.6	2770.0	2668.5	2567.0	2428.2	2258.1	2045.8	1902.0	1711.3	1530.3
22°	3241.6	3153.8	3065.6	2954.1	2840.6	2678.5	2482.5	2236.2	2063.4	1840.8	1632.1
23°	3540.5	3451.3	3383.4	3230.6	3101.5	2918.8	2701.5	2419.9	2219.2	1963.9	1728.0
24°	3827.4	3729.9	3645.3	3491.2	3345.1	3141.8	2907.8	2598.3	2369.6	2081.4	1816.8
25°	4093.3	3985.8	3881.9	3723.5	3564.8	3342.8	3089.8	2759.7	2506.8	2187.9	1897.7
26°	4337.9	4191.1	4078.3	3931.9	3751.5	3518.5	3249.9	2899.1	2624.9	2276.8	1961.3
27°	4549.9	4401.5	4272.0	4115.3	3913.9	3663.0	3382.1	2999.3	2718.4	2343.3	2005.5
28°	4704.0	4578.5	4429.4	4260.7	4039.4	3762.5	3471.6	3079.2	2774.7	2378.0	2023.8
29°	4867.4	4724.6	4550.9	4359.2	4118.2	3825.0	3520.8	3120.8	2798.0	2385.9	2020.2
30°	4954.3	4822.8	4618.5	4409.5	4152.2	3845.0	3531.5	3127.1	2790.6	2366.6	1996.2
31°	4977.6	4854.8	4628.5	4410.5	4141.5	3825.4	3505.2	3094.5	2751.0	2321.7	1951.6
32°	4944.0	4821.2	4586.2	4367.9	4092.6	3770.5	3447.3	3036.3	2686.5	2254.5	1888.1
33°	4823.1	4723.6	4497.0	4287.0	4018.1	3688.9	3362.1	2941.4	2586.0	2167.3	1811.5
34°	4668.7	4575.9	4366.9	4151.5	3899.9	3577.1	3244.6	2826.6	2470.5	2060.1	1720.7
35°	4482.7	4391.2	4198.5	3984.5	3743.5	3428.3	3094.2	2682.5	2334.0	1939.0	1619.8
36°	4263.4	4168.2	3990.1	3786.4	3567.1	3248.6	2916.1	2516.7	2178.9	1807.2	1512.0
37°	4022.1	3926.2	3767.1	3578.4	3361.4	3046.3	2716.8	2334.0	2015.2	1670.4	1399.2
38°	3767.5	3678.3	3533.8	3345.5	3130.8	2821.3	2498.8	2167.0	1848.5	1531.9	1285.0
39°	3506.2	3412.3	3276.2	3091.2	2880.2	2574.7	2271.5	1974.9	1704.7	1395.8	1180.2
40°	3214.3	3125.8	2968.0	2822.9	2611.3	2320.4	2043.8	1762.9	1544.9	1265.0	1085.0
42.5°	2377.6	2308.4	2224.2	2075.4	1919.0	1710.3	1517.0	1322.3	1163.9	1005.1	873.0
45°	1509.0	1458.1	1414.8	1322.3	1259.0	1141.6	1041.7	942.2	867.3	784.1	637.3
47.5°	558.5	534.5	519.2	478.6	474.9	437.3	433.7	481.6	509.9	479.9	361.1
50°	210.3	204.3	200.7	188.0	179.4	162.1	149.1	139.4	119.8	106.2	95.2
51°	138.1	133.8	127.5	126.5	122.8	113.2	107.2	105.2	91.9	77.5	66.6
52°	87.9	85.2	81.2	81.5	79.5	73.6	71.6	74.6	67.6	59.6	51.6
53°	55.2	53.9	51.3	51.3	50.9	46.9	46.3	48.9	47.6	43.9	39.3
54°	35.9	35.6	33.3	33.6	33.6	31.3	31.0	32.0	31.6	30.3	28.0
55°	24.6	24.3	24.0	23.0	22.3	21.6	21.6	22.0	21.6	21.0	19.6
57.5°	8.7	8.3	8.7	8.3	8.3	8.7	8.3	9.0	9.3	9.3	8.7
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.3	3.3	3.3



TEST NUMBER: P208849

CATALOG NUMBER: LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°

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°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	76.5	76.9	75.5	75.2	74.9	73.2	72.2	71.2	70.2	68.6	69.2
5°	102.5	102.5	99.5	97.5	96.5	92.9	91.2	88.9	86.2	84.2	83.2
7.5°	143.1	140.8	134.1	129.1	126.1	118.8	114.5	108.2	104.5	100.5	98.2
10°	303.5	287.9	255.3	232.0	210.0	183.4	159.1	140.1	127.8	118.8	113.2
11°	409.0	388.4	346.8	314.5	285.9	247.9	210.7	175.1	149.4	133.8	122.1
12°	524.8	498.2	448.3	408.4	373.4	325.8	278.2	231.3	194.4	165.1	141.1
13°	645.3	611.0	553.1	507.2	466.9	412.0	355.4	299.2	254.3	214.3	178.1
14°	764.8	722.9	659.3	606.4	561.1	499.9	435.7	373.1	320.5	270.2	226.0
15°	873.3	827.4	771.5	702.2	653.3	574.8	514.2	444.0	384.1	325.8	274.2
17.5°	1068.0	1006.1	940.2	868.6	822.1	744.5	667.6	582.8	510.2	438.0	368.8
20°	1282.0	1171.5	1063.0	956.5	888.9	806.4	731.2	647.3	570.8	488.9	413.7
21°	1366.2	1239.7	1107.6	988.1	911.6	823.4	745.5	658.6	578.1	490.9	411.7
22°	1446.1	1295.0	1146.5	1014.8	931.2	841.0	757.2	666.0	580.1	488.6	405.7
23°	1519.0	1348.2	1182.5	1038.0	945.5	849.7	763.1	669.0	579.1	483.2	396.7
24°	1585.2	1397.2	1213.1	1055.4	954.2	852.3	762.5	666.6	574.1	475.3	384.4
25°	1642.4	1435.8	1235.4	1064.7	956.5	851.0	759.1	660.6	564.1	461.6	370.1
26°	1685.7	1460.4	1246.1	1066.0	953.2	846.7	751.5	649.7	548.5	443.3	350.8
27°	1710.7	1469.4	1246.1	1060.3	946.5	838.7	739.2	632.7	528.2	420.7	326.8
28°	1715.0	1465.4	1237.1	1048.7	933.9	824.7	721.2	611.0	504.2	393.7	300.5
29°	1703.7	1449.4	1217.8	1028.7	915.2	806.7	697.9	583.8	475.6	364.1	273.2
30°	1675.7	1420.1	1189.1	1003.4	892.9	783.1	668.6	553.5	443.3	333.5	242.0
31°	1632.1	1377.9	1152.5	972.8	865.3	754.8	636.3	518.5	407.0	295.5	208.0
32°	1574.2	1318.6	1111.9	937.9	834.7	722.5	596.1	473.9	359.1	249.3	168.7
33°	1506.0	1260.7	1066.7	900.3	801.4	678.3	540.5	407.4	300.5	197.7	127.8
34°	1428.1	1198.5	1018.1	860.7	757.8	613.4	471.3	338.8	236.3	144.4	90.2
35°	1341.9	1132.2	967.2	814.1	688.9	534.2	392.1	263.9	171.1	97.8	67.9
36°	1250.1	1058.0	908.9	747.5	606.4	445.3	308.2	190.0	113.5	72.9	58.6
37°	1163.5	993.5	848.7	664.0	513.2	352.5	225.0	126.8	82.9	63.6	51.9
38°	1082.0	931.2	770.1	571.4	417.3	264.3	148.1	93.5	71.9	55.9	45.9
39°	1005.8	868.6	678.3	472.3	321.5	186.4	107.5	80.2	62.6	49.6	40.6
40°	932.2	779.1	578.1	385.1	234.3	130.1	90.5	70.9	55.2	43.6	34.3
42.5°	699.2	500.6	320.2	175.4	110.2	84.9	64.6	49.9	36.6	27.0	20.6
45°	439.0	254.6	137.5	98.5	76.9	57.6	41.9	30.0	22.0	16.3	13.0
47.5°	199.7	109.5	85.2	65.9	49.6	34.3	24.6	18.0	13.3	10.3	7.7
50°	73.2	62.2	50.6	37.6	27.3	19.6	14.3	10.7	8.0	6.0	4.3
51°	57.2	49.9	40.3	28.3	21.6	16.0	11.6	8.7	6.3	4.7	3.3
52°	44.9	39.6	31.0	22.0	17.0	12.6	9.3	6.7	4.7	3.7	2.7
53°	34.6	30.3	23.3	17.0	13.3	10.0	7.3	5.3	3.7	2.7	2.0
54°	25.6	22.3	17.3	13.0	10.3	7.7	5.3	4.0	2.7	2.0	1.7
55°	18.3	16.3	13.0	10.3	8.0	6.0	4.0	3.0	2.0	1.3	1.3
57.5°	7.7	7.3	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



TEST NUMBER: P208849

CATALOG NUMBER: LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°

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: P208849

CATALOG NUMBER: LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	68.2	68.2	65.9	65.2	64.9	64.2	62.6	62.6	61.6	60.2	59.6
5°	80.9	80.2	76.5	74.6	72.9	70.9	67.6	66.2	64.2	62.2	60.6
7.5°	93.2	90.9	85.2	82.2	79.9	76.5	72.2	69.2	65.9	62.6	60.2
10°	105.5	100.8	92.9	87.9	83.5	78.9	73.6	70.2	65.9	61.6	58.2
11°	110.5	104.5	95.5	89.2	84.2	78.9	73.6	69.2	65.2	60.9	57.2
12°	120.1	108.8	98.2	91.2	84.9	78.9	72.9	68.2	63.9	59.6	55.9
13°	139.8	118.8	101.2	92.9	85.9	78.9	72.2	67.2	62.6	58.2	54.2
14°	175.4	139.4	109.2	94.5	86.2	78.9	71.6	65.6	60.9	56.2	52.6
15°	215.7	171.1	125.5	100.5	86.5	78.2	70.2	63.9	58.9	54.2	50.6
17.5°	299.2	239.3	177.7	130.5	94.9	76.2	65.2	58.9	53.3	48.6	44.3
20°	333.1	263.6	194.4	139.8	98.2	72.9	59.6	52.9	46.9	42.3	38.6
21°	328.8	258.9	189.4	133.5	91.9	68.2	56.6	50.3	44.6	39.6	36.3
22°	319.8	247.9	177.7	121.8	84.2	63.6	53.9	47.3	41.9	37.3	33.9
23°	307.9	232.3	164.4	109.5	76.2	59.2	51.3	44.6	39.6	34.9	32.0
24°	292.9	216.7	149.1	97.2	68.6	55.9	48.3	41.9	36.9	32.9	30.0
25°	276.2	200.4	132.8	86.9	63.9	52.6	44.9	38.9	34.6	31.0	28.0
26°	255.9	181.1	117.5	77.2	58.2	48.9	41.6	36.3	32.3	29.0	26.0
27°	232.6	161.1	100.5	67.2	53.6	45.3	38.6	33.9	30.3	27.0	24.0
28°	211.7	138.8	86.2	59.9	49.9	41.6	35.9	31.6	28.3	25.0	22.3
29°	185.4	117.5	73.6	54.2	45.9	38.9	33.3	29.3	26.0	22.6	20.3
30°	159.1	97.2	62.9	49.6	41.9	35.6	30.6	27.0	23.6	21.0	19.0
31°	131.8	80.5	55.2	45.6	38.3	32.9	28.3	25.0	21.6	19.3	17.3
32°	100.8	65.9	49.3	41.3	34.9	29.6	26.0	22.6	19.6	17.6	15.6
33°	75.9	55.6	44.6	37.3	31.6	27.3	23.6	20.3	18.0	16.0	14.3
34°	60.6	49.6	40.3	33.6	28.6	24.6	21.0	18.3	16.0	14.3	12.6
35°	53.3	44.6	35.9	30.3	25.6	21.6	18.6	16.3	14.3	12.6	11.3
36°	47.3	39.9	32.0	27.0	22.3	19.0	16.3	14.3	12.3	11.0	10.0
37°	42.3	35.3	28.3	23.3	19.3	16.6	14.3	12.3	10.7	9.7	9.0
38°	37.9	30.3	24.0	20.0	16.6	14.3	12.3	10.7	9.3	8.3	7.7
39°	32.3	25.6	20.0	17.0	14.0	12.0	10.3	9.3	8.0	7.3	6.7
40°	27.0	21.3	16.6	14.0	12.0	10.0	9.0	7.7	7.0	6.3	5.7
42.5°	16.6	13.3	10.7	9.0	7.7	6.7	6.0	5.3	4.7	4.3	4.0
45°	10.3	8.3	6.7	5.7	4.7	4.3	4.0	3.3	3.3	3.0	3.0
47.5°	6.0	5.0	3.7	3.3	2.7	2.7	2.3	2.3	2.0	2.3	2.0
50°	3.3	2.3	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: P208849

CATALOG NUMBER: LDSQA6A10930D010TE 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: P208849

CATALOG NUMBER: LDSQA6A10930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	59.2	59.2	58.9	58.2	53.3	48.9	46.3	45.9
5°	59.6	58.9	57.6	56.6	47.6	41.9	38.6	38.3
7.5°	58.2	56.9	55.2	53.3	42.3	36.3	33.3	32.6
10°	55.9	53.6	51.6	48.9	37.3	31.6	29.0	28.3
11°	54.2	51.9	49.9	47.3	35.3	30.0	27.3	27.0
12°	52.9	50.3	47.6	45.3	33.3	28.3	26.0	25.6
13°	50.9	48.3	45.9	43.3	31.6	27.0	24.6	24.3
14°	49.3	46.3	43.9	41.6	30.0	25.3	23.6	23.3
15°	47.3	44.3	41.6	39.3	28.3	24.0	22.6	22.3
17.5°	41.9	38.6	36.3	33.9	24.3	21.0	20.0	20.3
20°	35.6	32.9	31.0	29.0	20.6	18.3	18.0	18.3
21°	33.3	31.0	29.3	27.3	19.3	17.3	17.3	17.6
22°	31.3	29.0	27.3	25.3	18.3	16.3	16.3	17.0
23°	29.3	27.0	25.3	23.6	17.0	15.6	15.6	16.3
24°	27.3	25.3	23.6	22.0	16.0	14.6	15.0	15.6
25°	25.3	23.6	22.0	20.6	15.0	14.0	14.3	15.0
26°	24.0	22.0	20.6	19.0	14.0	13.3	13.6	14.6
27°	22.0	20.3	19.0	17.6	13.3	12.6	13.3	14.0
28°	20.6	19.0	17.6	16.3	12.3	12.0	12.6	13.6
29°	19.0	17.6	16.3	15.3	11.6	11.3	12.3	13.0
30°	17.3	16.0	15.0	14.0	11.0	10.7	11.6	12.6
31°	16.0	15.0	14.0	13.0	10.3	10.3	11.3	12.3
32°	14.6	13.6	12.6	11.6	9.7	9.7	11.0	11.6
33°	13.3	12.3	11.3	10.7	9.0	9.3	10.3	11.3
34°	11.6	11.0	10.3	9.7	8.3	8.7	10.0	11.0
35°	10.7	10.0	9.3	8.7	8.0	8.3	9.7	10.7
36°	9.3	9.0	8.3	8.0	7.3	8.0	9.3	10.3
37°	8.3	8.0	7.3	7.0	7.0	7.7	9.0	10.0
38°	7.3	7.0	6.7	6.3	6.7	7.3	8.7	9.7
39°	6.3	6.0	6.0	5.7	6.3	7.0	8.3	9.3
40°	5.7	5.3	5.3	5.0	6.0	6.7	8.0	9.3
42.5°	4.0	4.0	4.0	4.0	5.0	6.0	7.3	8.7
45°	3.0	3.0	3.0	3.0	4.3	5.3	6.3	8.0
47.5°	2.3	2.3	2.3	2.3	4.0	5.0	6.0	7.0
50°	1.7	1.7	2.0	2.0	3.7	4.3	5.3	6.3
51°	1.7	1.7	1.7	2.0	3.3	4.3	5.0	6.0
52°	1.7	1.7	1.7	1.7	3.3	4.0	4.7	5.3
53°	1.3	1.7	1.7	1.7	3.0	4.0	4.3	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	3.3	3.7	3.3
60°	1.3	1.3	1.3	1.3	2.3	3.0	3.3	2.3



TEST NUMBER: P208849

CATALOG NUMBER: LDSQA6A10930D010TE 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	2.3	2.7	2.7	2.0
64°	1.3	1.3	1.3	1.3	2.3	2.7	2.7	2.0
65°	1.3	1.3	1.3	1.3	2.3	2.3	2.3	1.7
66°	1.3	1.3	1.3	1.3	2.3	2.3	2.3	1.7
67.5°	1.3	1.3	1.3	1.3	2.3	2.3	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	2.3	3.0	3.0	2.3
62°	1.3	1.3	1.3	1.3	2.3	2.7	3.0	2.0



(END OF REPORT)