

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: P208848

Luminaire Tested: **LDSQA6A10927D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208848
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: LDSQA6A10927D010TE 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: 830.3 lumens
Efficiency: N/A
Efficacy: 60.5 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

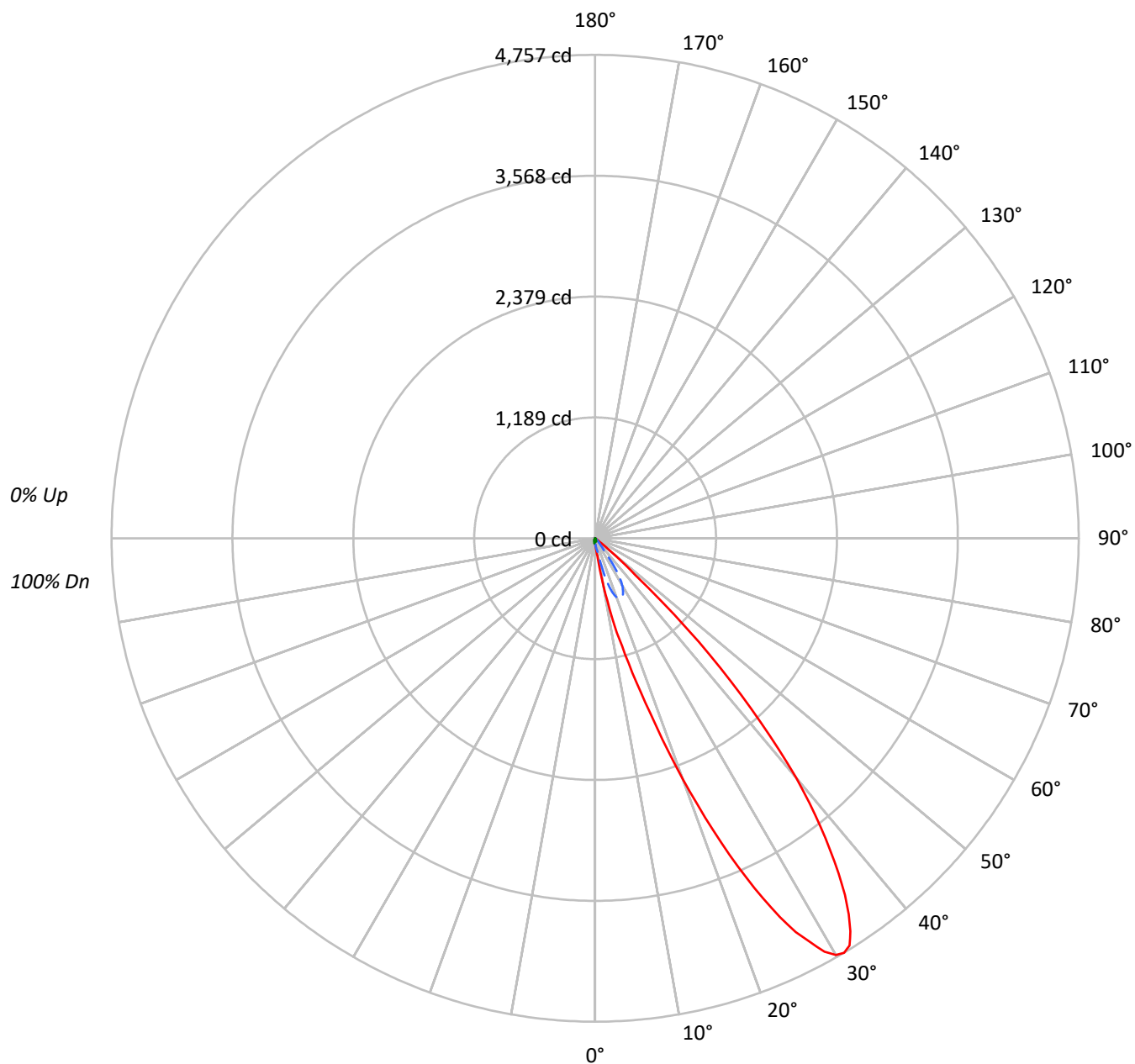
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208848

CATALOG NUMBER: LDSQA6A10927D010TE LARL20NF 6LSQA1H 30°

Luminous Intensity Polar Plot





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CATALOG NUMBER: LDSQA6A10927D010TE 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	79		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°	2411	2411	2411
5°	4810	2338	1582
10°	21637	2046	1180
15°	56730	1672	949
20°	115505	1269	802
25°	185856	936	679
30°	235412	666	602
35°	225193	436	536
40°	172668	270	500
45°	87815	177	463
50°	13464	127	402
55°	1764	120	285
60°	189	112	189
65°	31	132	163
70°	38	201	201
75°	0	266	166
80°	0	322	149
85°	0	642	148



TEST NUMBER: P208848

CATALOG NUMBER: LDSQA6A10927D010TE LARL20NF 6LSQA1H 30°

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.9
10°-20°	82.1	9.9
20°-30°	268.8	32.4
30°-40°	327.2	39.4
40°-50°	132.9	16.0
50°-60°	7.9	1.0
60°-70°	1.5	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°	358.4	43.2
0°-40°	685.6	82.6
0°-60°	826.4	99.5
0°-90°	830.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	830.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	111	85	54	40	37	21
15°	1273	424	38	23	21	414
25°	3912	631	20	13	14	1798
35°	4284	252	8	8	10	2591
45°	1442	29	3	5	8	1106
55°	24	3	2	4	4	41
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: P208848

CATALOG NUMBER: LDSQA6A10927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	78.9	75.4	77.0	76.7	75.4	75.7	76.3	75.1	75.7	73.8	74.1
5°	111.3	106.2	109.1	105.9	107.5	105.9	105.9	104.0	102.4	102.1	100.5
7.5°	194.4	181.9	185.8	172.1	174.3	169.9	165.7	161.3	153.6	149.8	141.6
10°	494.9	460.0	468.2	438.3	437.7	427.2	407.8	394.4	366.1	346.1	317.5
11°	626.0	602.1	609.5	576.7	575.1	560.8	537.9	502.3	486.4	459.6	424.0
12°	797.1	757.1	761.5	725.6	722.1	703.0	677.2	633.3	614.2	581.8	539.8
13°	952.7	917.1	917.4	878.2	874.1	849.9	821.6	768.5	747.2	710.9	660.4
14°	1095.5	1068.5	1063.1	1042.1	1019.8	991.5	961.6	901.5	877.9	837.2	779.3
15°	1272.7	1219.9	1209.4	1183.0	1155.9	1120.3	1083.7	1015.0	988.9	944.1	886.5
17.5°	1795.3	1730.1	1701.5	1647.7	1596.8	1528.4	1449.2	1327.4	1267.3	1186.8	1096.8
20°	2520.9	2418.1	2360.5	2274.3	2192.3	2080.3	1943.5	1751.7	1662.7	1506.8	1359.2
21°	2808.1	2719.7	2647.5	2550.4	2453.4	2320.8	2158.2	1955.3	1817.9	1635.6	1462.6
22°	3098.2	3014.2	2929.9	2823.4	2714.9	2560.0	2372.6	2137.2	1972.2	1759.4	1559.9
23°	3383.8	3298.6	3233.7	3087.7	2964.3	2789.6	2581.9	2312.8	2121.0	1877.0	1651.5
24°	3658.0	3564.8	3484.0	3336.8	3197.1	3002.8	2779.2	2483.3	2264.8	1989.3	1736.5
25°	3912.2	3809.4	3710.2	3558.8	3407.1	3194.9	2953.1	2637.6	2395.9	2091.1	1813.7
26°	4146.0	4005.7	3897.9	3757.9	3585.5	3362.8	3106.1	2770.9	2508.8	2176.1	1874.5
27°	4348.6	4206.7	4083.0	3933.2	3740.7	3500.9	3232.4	2866.6	2598.2	2239.7	1916.8
28°	4495.9	4376.0	4233.5	4072.2	3860.7	3596.0	3318.0	2943.0	2651.9	2272.8	1934.3
29°	4652.1	4515.6	4349.6	4166.3	3936.0	3655.8	3365.1	2982.7	2674.2	2280.4	1930.8
30°	4735.1	4609.4	4414.1	4214.4	3968.5	3674.9	3375.3	2988.8	2667.2	2261.9	1907.9
31°	4757.4	4640.0	4423.7	4215.3	3958.3	3656.1	3350.1	2957.6	2629.3	2219.0	1865.3
32°	4725.2	4607.9	4383.3	4174.6	3911.6	3603.6	3294.8	2901.9	2567.6	2154.7	1804.5
33°	4609.8	4514.7	4298.0	4097.3	3840.3	3525.7	3213.3	2811.3	2471.6	2071.4	1731.4
34°	4462.2	4373.4	4173.7	3967.9	3727.4	3418.8	3101.1	2701.5	2361.2	1969.0	1644.5
35°	4284.4	4196.9	4012.7	3808.2	3577.9	3276.6	2957.3	2563.8	2230.8	1853.2	1548.1
36°	4074.7	3983.8	3813.6	3618.9	3409.3	3104.9	2787.1	2405.4	2082.5	1727.2	1445.1
37°	3844.1	3752.5	3600.5	3420.1	3212.7	2911.5	2596.6	2230.8	1926.0	1596.5	1337.3
38°	3600.8	3515.5	3377.5	3197.4	2992.3	2696.4	2388.2	2071.1	1766.7	1464.2	1228.1
39°	3351.1	3261.4	3131.3	2954.4	2752.8	2460.7	2171.0	1887.5	1629.3	1334.1	1127.9
40°	3072.1	2987.5	2836.7	2698.0	2495.7	2217.7	1953.4	1684.9	1476.6	1209.1	1037.0
42.5°	2272.4	2206.3	2125.8	1983.6	1834.1	1634.7	1449.9	1263.8	1112.4	960.6	834.3
45°	1442.2	1393.6	1352.2	1263.8	1203.3	1091.0	995.6	900.5	828.9	749.4	609.1
47.5°	533.8	510.9	496.2	457.4	453.9	418.0	414.5	460.3	487.3	458.7	345.1
50°	201.0	195.3	191.8	179.7	171.5	154.9	142.5	133.3	114.5	101.5	91.0
51°	132.0	127.9	121.8	120.9	117.4	108.2	102.4	100.5	87.8	74.1	63.6
52°	84.0	81.4	77.6	77.9	76.0	70.3	68.4	71.3	64.6	56.9	49.3
53°	52.8	51.5	49.0	49.0	48.7	44.9	44.2	46.8	45.5	42.0	37.5
54°	34.4	34.0	31.8	32.1	32.1	29.9	29.6	30.5	30.2	28.9	26.7
55°	23.5	23.2	22.9	21.9	21.3	20.7	20.7	21.0	20.7	20.0	18.8
57.5°	8.3	8.0	8.3	8.0	8.0	8.3	8.0	8.6	8.9	8.9	8.3
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.2	3.2	3.2



TEST NUMBER: P208848

CATALOG NUMBER: LDSQA6A10927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.6	0.6	0.6
64°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
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	0.6
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
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°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	73.2	73.5	72.2	71.9	71.6	70.0	69.0	68.1	67.1	65.5	66.2
5°	98.0	98.0	95.1	93.2	92.2	88.7	87.2	84.9	82.4	80.5	79.5
7.5°	136.8	134.6	128.2	123.4	120.6	113.6	109.4	103.4	99.9	96.1	93.8
10°	290.1	275.1	244.0	221.7	200.7	175.3	152.0	133.9	122.1	113.6	108.2
11°	390.9	371.2	331.4	300.6	273.2	237.0	201.4	167.3	142.8	127.9	116.7
12°	501.6	476.2	428.5	390.3	356.9	311.4	265.9	221.1	185.8	157.8	134.9
13°	616.8	584.0	528.7	484.8	446.3	393.8	339.7	286.0	243.0	204.8	170.2
14°	731.0	690.9	630.1	579.6	536.3	477.8	416.4	356.6	306.3	258.3	216.0
15°	834.7	790.8	737.3	671.2	624.4	549.3	491.4	424.3	367.1	311.4	262.1
17.5°	1020.8	961.6	898.6	830.2	785.7	711.6	638.1	557.0	487.6	418.6	352.4
20°	1225.3	1119.7	1016.0	914.2	849.6	770.7	698.8	618.7	545.5	467.3	395.4
21°	1305.8	1184.9	1058.6	944.4	871.2	787.0	712.5	629.5	552.5	469.2	393.5
22°	1382.1	1237.7	1095.8	969.9	890.0	803.8	723.7	636.5	554.4	467.0	387.8
23°	1451.8	1288.6	1130.2	992.1	903.7	812.1	729.4	639.4	553.5	461.9	379.2
24°	1515.1	1335.3	1159.4	1008.7	912.0	814.6	728.7	637.1	548.7	454.2	367.4
25°	1569.8	1372.2	1180.7	1017.6	914.2	813.4	725.6	631.4	539.2	441.2	353.7
26°	1611.1	1395.8	1190.9	1018.8	911.0	809.2	718.2	620.9	524.2	423.7	335.3
27°	1635.0	1404.4	1190.9	1013.4	904.6	801.6	706.5	604.7	504.8	402.1	312.4
28°	1639.1	1400.6	1182.3	1002.3	892.6	788.2	689.3	584.0	481.9	376.3	287.2
29°	1628.3	1385.3	1163.9	983.2	874.7	771.1	667.0	557.9	454.6	348.0	261.2
30°	1601.6	1357.3	1136.5	959.0	853.4	748.5	639.0	529.0	423.7	318.7	231.3
31°	1559.9	1316.9	1101.5	929.8	827.0	721.4	608.2	495.6	389.0	282.5	198.8
32°	1504.6	1260.3	1062.7	896.4	797.8	690.6	569.7	453.0	343.2	238.2	161.3
33°	1439.4	1204.9	1019.5	860.4	766.0	648.3	516.6	389.3	287.2	188.9	122.1
34°	1364.9	1145.4	973.0	822.6	724.3	586.2	450.4	323.8	225.8	138.1	86.2
35°	1282.5	1082.1	924.4	778.0	658.4	510.5	374.7	252.2	163.5	93.5	64.9
36°	1194.7	1011.2	868.7	714.4	579.6	425.6	294.6	181.6	108.5	69.7	56.0
37°	1112.0	949.5	811.1	634.6	490.5	336.9	215.0	121.2	79.2	60.8	49.6
38°	1034.1	890.0	736.1	546.2	398.9	252.6	141.6	89.4	68.7	53.4	43.9
39°	961.3	830.2	648.3	451.4	307.3	178.1	102.7	76.7	59.8	47.4	38.8
40°	891.0	744.6	552.5	368.0	223.9	124.4	86.5	67.8	52.8	41.7	32.8
42.5°	668.3	478.4	306.0	167.6	105.3	81.1	61.7	47.7	35.0	25.8	19.7
45°	419.6	243.3	131.4	94.2	73.5	55.0	40.1	28.6	21.0	15.6	12.4
47.5°	190.9	104.7	81.4	63.0	47.4	32.8	23.5	17.2	12.7	9.9	7.3
50°	70.0	59.5	48.3	35.9	26.1	18.8	13.7	10.2	7.6	5.7	4.1
51°	54.7	47.7	38.5	27.0	20.7	15.3	11.1	8.3	6.0	4.5	3.2
52°	42.9	37.9	29.6	21.0	16.2	12.1	8.9	6.4	4.5	3.5	2.5
53°	33.1	28.9	22.3	16.2	12.7	9.5	7.0	5.1	3.5	2.5	1.9
54°	24.5	21.3	16.5	12.4	9.9	7.3	5.1	3.8	2.5	1.9	1.6
55°	17.5	15.6	12.4	9.9	7.6	5.7	3.8	2.9	1.9	1.3	1.3
57.5°	7.3	7.0	5.7	4.8	3.8	2.9	1.9	1.3	1.3	1.0	1.3
60°	2.9	2.9	2.5	1.9	1.6	1.3	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P208848

CATALOG NUMBER: LDSQA6A10927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
64°	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.3
65°	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.3
66°	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.3
67.5°	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.3	1.3
70°	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.3	1.3
72.5°	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.3	1.3
75°	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.3	1.3
77.5°	0.3	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.3	1.3	1.3
80°	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.3	1.3
82.5°	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.3	1.3
85°	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.3	1.3
87.5°	0.3	0.6	0.6	0.6	0.6	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: P208848

CATALOG NUMBER: LDSQA6A10927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	65.2	65.2	63.0	62.3	62.0	61.4	59.8	59.8	58.8	57.6	56.9
5°	77.3	76.7	73.2	71.3	69.7	67.8	64.6	63.3	61.4	59.5	57.9
7.5°	89.1	86.8	81.4	78.6	76.3	73.2	69.0	66.2	63.0	59.8	57.6
10°	100.8	96.4	88.7	84.0	79.8	75.4	70.3	67.1	63.0	58.8	55.7
11°	105.6	99.9	91.3	85.2	80.5	75.4	70.3	66.2	62.3	58.2	54.7
12°	114.8	104.0	93.8	87.2	81.1	75.4	69.7	65.2	61.1	56.9	53.4
13°	133.6	113.6	96.7	88.7	82.1	75.4	69.0	64.3	59.8	55.7	51.8
14°	167.6	133.3	104.3	90.3	82.4	75.4	68.4	62.7	58.2	53.8	50.3
15°	206.1	163.5	119.9	96.1	82.7	74.8	67.1	61.1	56.3	51.8	48.3
17.5°	286.0	228.7	169.9	124.7	90.7	72.8	62.3	56.3	50.9	46.4	42.3
20°	318.4	251.9	185.8	133.6	93.8	69.7	56.9	50.6	44.9	40.4	36.9
21°	314.3	247.5	181.0	127.6	87.8	65.2	54.1	48.0	42.6	37.9	34.7
22°	305.7	237.0	169.9	116.4	80.5	60.8	51.5	45.2	40.1	35.6	32.4
23°	294.2	222.0	157.1	104.7	72.8	56.6	49.0	42.6	37.9	33.4	30.5
24°	279.9	207.1	142.5	92.9	65.5	53.4	46.1	40.1	35.3	31.5	28.6
25°	264.0	191.5	126.9	83.0	61.1	50.3	42.9	37.2	33.1	29.6	26.7
26°	244.6	173.0	112.3	73.8	55.7	46.8	39.8	34.7	30.9	27.7	24.8
27°	222.3	154.0	96.1	64.3	51.2	43.3	36.9	32.4	28.9	25.8	22.9
28°	202.3	132.6	82.4	57.3	47.7	39.8	34.4	30.2	27.0	23.9	21.3
29°	177.2	112.3	70.3	51.8	43.9	37.2	31.8	28.0	24.8	21.6	19.4
30°	152.0	92.9	60.1	47.4	40.1	34.0	29.3	25.8	22.6	20.0	18.1
31°	126.0	77.0	52.8	43.6	36.6	31.5	27.0	23.9	20.7	18.4	16.5
32°	96.4	63.0	47.1	39.4	33.4	28.3	24.8	21.6	18.8	16.9	15.0
33°	72.5	53.1	42.6	35.6	30.2	26.1	22.6	19.4	17.2	15.3	13.7
34°	57.9	47.4	38.5	32.1	27.4	23.5	20.0	17.5	15.3	13.7	12.1
35°	50.9	42.6	34.4	28.9	24.5	20.7	17.8	15.6	13.7	12.1	10.8
36°	45.2	38.2	30.5	25.8	21.3	18.1	15.6	13.7	11.8	10.5	9.5
37°	40.4	33.7	27.0	22.3	18.4	15.9	13.7	11.8	10.2	9.2	8.6
38°	36.3	28.9	22.9	19.1	15.9	13.7	11.8	10.2	8.9	8.0	7.3
39°	30.9	24.5	19.1	16.2	13.4	11.5	9.9	8.9	7.6	7.0	6.4
40°	25.8	20.4	15.9	13.4	11.5	9.5	8.6	7.3	6.7	6.0	5.4
42.5°	15.9	12.7	10.2	8.6	7.3	6.4	5.7	5.1	4.5	4.1	3.8
45°	9.9	8.0	6.4	5.4	4.5	4.1	3.8	3.2	3.2	2.9	2.9
47.5°	5.7	4.8	3.5	3.2	2.5	2.5	2.2	2.2	1.9	2.2	1.9
50°	3.2	2.2	1.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
51°	2.5	1.9	1.6	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6
52°	1.9	1.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
53°	1.6	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: P208848

CATALOG NUMBER: LDSQA6A10927D010TE 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	1.6	1.6	1.6	1.6	1.3	1.3	1.3	1.3
72.5°	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.3
75°	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: P208848

CATALOG NUMBER: LDSQA6A10927D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	56.6	56.6	56.3	55.7	50.9	46.8	44.2	43.9
5°	56.9	56.3	55.0	54.1	45.5	40.1	36.9	36.6
7.5°	55.7	54.4	52.8	50.9	40.4	34.7	31.8	31.2
10°	53.4	51.2	49.3	46.8	35.6	30.2	27.7	27.0
11°	51.8	49.6	47.7	45.2	33.7	28.6	26.1	25.8
12°	50.6	48.0	45.5	43.3	31.8	27.0	24.8	24.5
13°	48.7	46.1	43.9	41.4	30.2	25.8	23.5	23.2
14°	47.1	44.2	42.0	39.8	28.6	24.2	22.6	22.3
15°	45.2	42.3	39.8	37.5	27.0	22.9	21.6	21.3
17.5°	40.1	36.9	34.7	32.4	23.2	20.0	19.1	19.4
20°	34.0	31.5	29.6	27.7	19.7	17.5	17.2	17.5
21°	31.8	29.6	28.0	26.1	18.4	16.5	16.5	16.9
22°	29.9	27.7	26.1	24.2	17.5	15.6	15.6	16.2
23°	28.0	25.8	24.2	22.6	16.2	15.0	15.0	15.6
24°	26.1	24.2	22.6	21.0	15.3	14.0	14.3	15.0
25°	24.2	22.6	21.0	19.7	14.3	13.4	13.7	14.3
26°	22.9	21.0	19.7	18.1	13.4	12.7	13.0	14.0
27°	21.0	19.4	18.1	16.9	12.7	12.1	12.7	13.4
28°	19.7	18.1	16.9	15.6	11.8	11.5	12.1	13.0
29°	18.1	16.9	15.6	14.6	11.1	10.8	11.8	12.4
30°	16.5	15.3	14.3	13.4	10.5	10.2	11.1	12.1
31°	15.3	14.3	13.4	12.4	9.9	9.9	10.8	11.8
32°	14.0	13.0	12.1	11.1	9.2	9.2	10.5	11.1
33°	12.7	11.8	10.8	10.2	8.6	8.9	9.9	10.8
34°	11.1	10.5	9.9	9.2	8.0	8.3	9.5	10.5
35°	10.2	9.5	8.9	8.3	7.6	8.0	9.2	10.2
36°	8.9	8.6	8.0	7.6	7.0	7.6	8.9	9.9
37°	8.0	7.6	7.0	6.7	6.7	7.3	8.6	9.5
38°	7.0	6.7	6.4	6.0	6.4	7.0	8.3	9.2
39°	6.0	5.7	5.7	5.4	6.0	6.7	8.0	8.9
40°	5.4	5.1	5.1	4.8	5.7	6.4	7.6	8.9
42.5°	3.8	3.8	3.8	3.8	4.8	5.7	7.0	8.3
45°	2.9	2.9	2.9	2.9	4.1	5.1	6.0	7.6
47.5°	2.2	2.2	2.2	2.2	3.8	4.8	5.7	6.7
50°	1.6	1.6	1.9	1.9	3.5	4.1	5.1	6.0
51°	1.6	1.6	1.6	1.9	3.2	4.1	4.8	5.7
52°	1.6	1.6	1.6	1.6	3.2	3.8	4.5	5.1
53°	1.3	1.6	1.6	1.6	2.9	3.8	4.1	4.8
54°	1.3	1.3	1.3	1.6	2.9	3.5	3.8	4.5
55°	1.3	1.3	1.3	1.6	2.5	3.5	3.8	3.8
57.5°	1.3	1.3	1.3	1.3	2.5	3.2	3.5	3.2
60°	1.3	1.3	1.3	1.3	2.2	2.9	3.2	2.2



TEST NUMBER: P208848

CATALOG NUMBER: LDSQA6A10927D010TE 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	2.2	2.5	2.5	1.9
64°	1.3	1.3	1.3	1.3	2.2	2.5	2.5	1.9
65°	1.3	1.3	1.3	1.3	2.2	2.2	2.2	1.6
66°	1.3	1.3	1.3	1.3	2.2	2.2	2.2	1.6
67.5°	1.3	1.3	1.3	1.3	2.2	2.2	1.9	1.6
70°	1.3	1.3	1.3	1.6	1.9	1.9	1.9	1.6
72.5°	1.3	1.3	1.3	1.6	1.9	1.9	1.6	1.3
75°	1.6	1.6	1.6	1.6	1.9	1.9	1.6	1.0
77.5°	1.6	1.6	1.6	1.6	1.9	1.6	1.3	1.0
80°	1.6	1.6	1.3	1.3	1.6	1.6	1.0	0.6
82.5°	1.6	1.6	1.3	1.3	1.6	1.3	1.0	0.6
85°	1.6	1.6	1.3	1.3	1.6	1.3	0.6	0.3
87.5°	1.6	1.3	1.3	1.3	1.6	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	1.3	1.0	1.3	1.6	1.9	1.9	1.9
62°	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.3





61°	1.9	1.9	1.6	1.6	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	2.2	2.9	2.9	2.2
62°	1.3	1.3	1.3	1.3	2.2	2.5	2.9	1.9



(END OF REPORT)