

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: P208846

Luminaire Tested: **LDSQA6A10835D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208846  
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: LDSQA6A10835D010TE 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 / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1074.8 lumens  
Efficiency: N/A  
Efficacy: 78.3 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

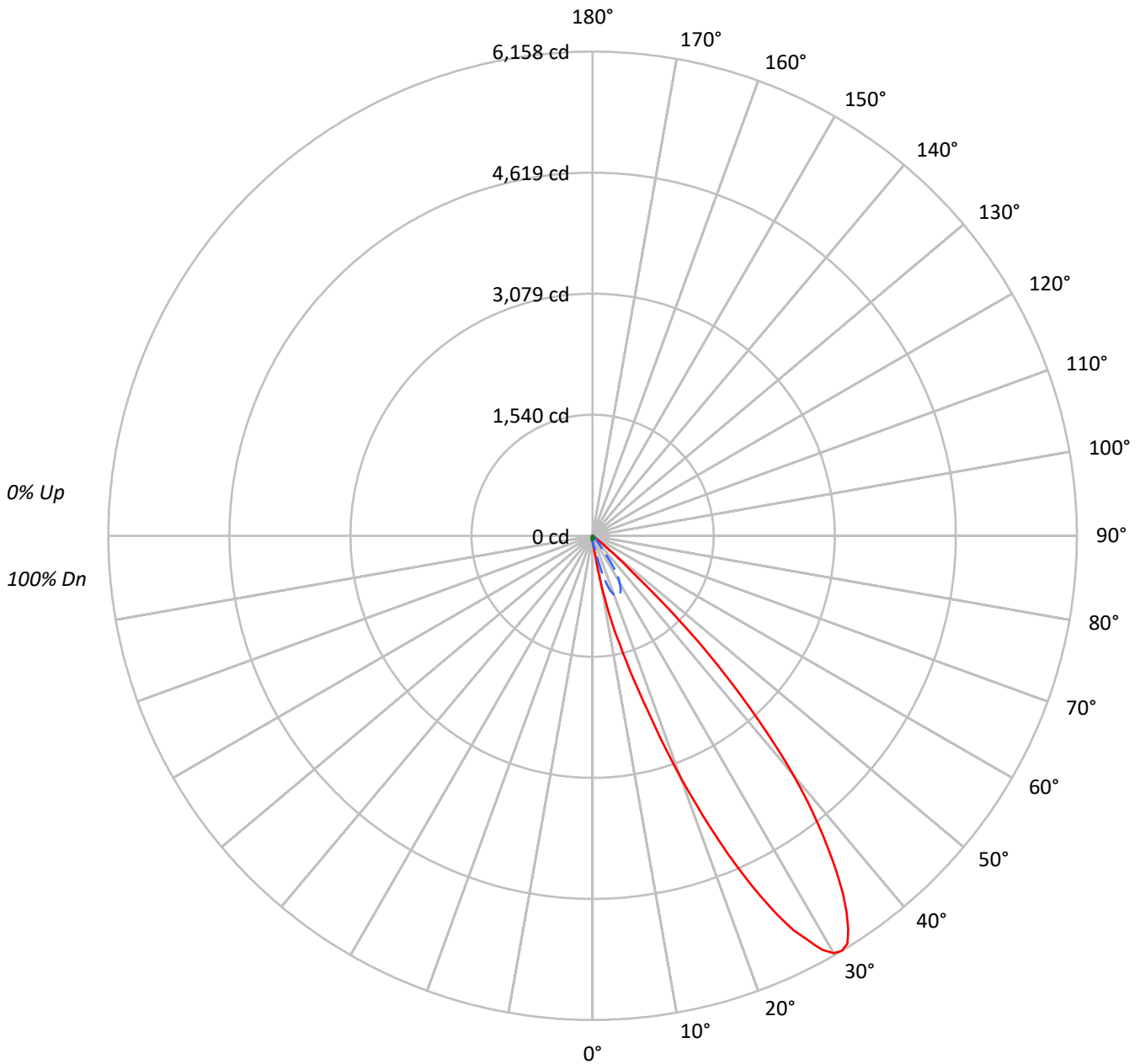
Input Watts (W): 13.73  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3122	3122	3122
5°	6228	3025	2049
10°	28011	2645	1530
15°	73436	2166	1230
20°	149516	1640	1036
25°	240583	1211	879
30°	304737	860	776
35°	291505	562	694
40°	223517	348	646
45°	113675	225	603
50°	17429	167	522
55°	2289	158	368
60°	250	138	250
65°	41	163	214
70°	50	264	264
75°	0	349	200
80°	0	397	198
85°	0	790	198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.7	0.9
10°-20°	106.3	9.9
20°-30°	348.0	32.4
30°-40°	423.6	39.4
40°-50°	172.1	16.0
50°-60°	10.2	1.0
60°-70°	2.0	0.2
70°-80°	1.8	0.2
80°-90°	1.3	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°	463.9	43.2
0°-40°	887.5	82.6
0°-60°	1069.8	99.5
0°-90°	1074.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	144	110	70	52	47	27
15°	1648	549	49	30	28	536
25°	5064	817	26	17	18	2327
35°	5546	326	11	10	13	3354
45°	1867	37	4	7	10	1432
55°	30	4	2	4	5	53
65°	0	1	2	3	2	1
75°	0	1	2	2	1	0
85°	0	1	2	2	0	0
90°	0	0	0	0	0	



TEST NUMBER: P208846

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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
2.5°	102.1	97.6	99.6	99.2	97.6	98.0	98.8	97.2	98.0	95.5	95.9
5°	144.1	137.5	141.2	137.1	139.2	137.1	137.1	134.6	132.6	132.2	130.1
7.5°	251.6	235.5	240.5	222.8	225.6	219.9	214.5	208.8	198.9	193.9	183.2
10°	640.7	595.4	606.1	567.4	566.6	553.0	527.9	510.6	473.9	448.0	410.9
11°	810.3	779.5	788.9	746.5	744.5	725.9	696.3	650.2	629.6	595.0	548.9
12°	1031.9	980.0	985.8	939.2	934.7	910.0	876.6	819.8	795.1	753.1	698.8
13°	1233.2	1187.1	1187.5	1136.9	1131.5	1100.2	1063.6	994.8	967.2	920.3	854.8
14°	1418.1	1383.1	1376.1	1348.9	1320.1	1283.5	1244.8	1166.9	1136.5	1083.8	1008.8
15°	1647.5	1579.1	1565.5	1531.3	1496.3	1450.2	1402.9	1313.9	1280.2	1222.1	1147.6
17.5°	2324.0	2239.6	2202.5	2132.9	2067.0	1978.5	1876.0	1718.3	1640.5	1536.3	1419.8
20°	3263.2	3130.2	3055.7	2944.1	2837.9	2692.9	2515.9	2267.6	2152.3	1950.5	1759.5
21°	3635.0	3520.6	3427.1	3301.5	3175.9	3004.2	2793.8	2531.1	2353.2	2117.3	1893.3
22°	4010.5	3901.8	3792.7	3654.8	3514.4	3313.8	3071.3	2766.6	2552.9	2277.4	2019.3
23°	4380.3	4270.0	4186.0	3997.0	3837.2	3611.1	3342.3	2993.9	2745.6	2429.8	2137.9
24°	4735.2	4614.6	4510.0	4319.4	4138.6	3887.0	3597.6	3214.6	2931.7	2575.2	2247.8
25°	5064.2	4931.2	4802.8	4606.8	4410.4	4135.7	3822.8	3414.3	3101.4	2706.9	2347.9
26°	5366.9	5185.3	5045.7	4864.5	4641.4	4353.1	4020.8	3586.8	3247.6	2816.9	2426.5
27°	5629.2	5445.5	5285.4	5091.4	4842.3	4531.8	4184.3	3710.8	3363.3	2899.2	2481.3
28°	5819.8	5664.6	5480.1	5271.4	4997.5	4655.0	4295.1	3809.6	3432.8	2942.0	2503.9
29°	6022.0	5845.4	5630.4	5393.2	5095.1	4732.4	4356.0	3861.1	3461.7	2951.9	2499.4
30°	6129.5	5966.8	5714.0	5455.4	5137.1	4757.1	4369.2	3868.9	3452.6	2928.0	2469.7
31°	6158.3	6006.4	5726.4	5456.7	5123.9	4732.8	4336.7	3828.5	3403.6	2872.4	2414.6
32°	6116.7	5964.8	5674.1	5403.9	5063.4	4664.8	4265.0	3756.5	3323.7	2789.3	2335.9
33°	5967.2	5844.1	5563.7	5303.9	4971.2	4564.0	4159.6	3639.1	3199.4	2681.4	2241.2
34°	5776.2	5661.3	5402.7	5136.3	4825.0	4425.6	4014.3	3497.1	3056.5	2548.8	2128.8
35°	5546.0	5432.8	5194.4	4929.6	4631.5	4241.5	3828.1	3318.8	2887.7	2398.9	2004.0
36°	5274.7	5156.9	4936.6	4684.6	4413.2	4019.2	3607.8	3113.7	2695.8	2235.9	1870.6
37°	4976.1	4857.5	4660.7	4427.2	4158.8	3768.8	3361.2	2887.7	2493.2	2066.6	1731.0
38°	4661.1	4550.8	4372.1	4139.0	3873.4	3490.5	3091.5	2681.0	2286.9	1895.3	1589.8
39°	4337.9	4221.8	4053.4	3824.4	3563.4	3185.4	2810.3	2443.4	2109.0	1726.9	1460.1
40°	3976.8	3867.3	3672.1	3492.6	3230.7	2870.8	2528.6	2181.1	1911.4	1565.1	1342.3
42.5°	2941.6	2856.0	2751.8	2567.7	2374.2	2116.0	1876.8	1635.9	1439.9	1243.5	1080.0
45°	1866.9	1803.9	1750.4	1635.9	1557.7	1412.3	1288.8	1165.7	1073.0	970.1	788.5
47.5°	690.9	661.3	642.3	592.1	587.6	541.1	536.5	595.8	630.8	593.8	446.8
50°	260.2	252.8	248.3	232.6	221.9	200.5	184.5	172.5	148.2	131.4	117.8
51°	170.9	165.5	157.7	156.5	151.9	140.0	132.6	130.1	113.6	95.9	82.4
52°	108.7	105.4	100.5	100.9	98.4	91.0	88.5	92.2	83.6	73.7	63.8
53°	68.4	66.7	63.4	63.4	63.0	58.1	57.2	60.5	58.9	54.4	48.6
54°	44.5	44.1	41.2	41.6	41.6	38.7	38.3	39.5	39.1	37.5	34.6
55°	30.5	30.1	29.6	28.4	27.6	26.8	26.8	27.2	26.8	25.9	24.3
57.5°	10.7	10.3	10.7	10.3	10.3	10.7	10.3	11.1	11.5	11.5	10.7
60°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.7	4.1	4.1	4.1



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.8	0.8	0.8
64°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
66°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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°	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
2.5°	94.7	95.1	93.5	93.1	92.6	90.6	89.4	88.1	86.9	84.8	85.6
5°	126.8	126.8	123.1	120.6	119.4	114.9	112.8	109.9	106.6	104.2	102.9
7.5°	177.1	174.2	165.9	159.8	156.1	147.0	141.6	133.8	129.3	124.4	121.5
10°	375.5	356.2	315.8	287.0	259.8	226.9	196.8	173.4	158.1	147.0	140.0
11°	506.1	480.5	429.1	389.1	353.7	306.8	260.6	216.6	184.9	165.5	151.1
12°	649.3	616.4	554.6	505.2	462.0	403.1	344.2	286.2	240.5	204.2	174.6
13°	798.4	756.0	684.3	627.5	577.7	509.8	439.8	370.2	314.6	265.2	220.3
14°	946.2	894.3	815.7	750.2	694.2	618.5	539.0	461.6	396.5	334.3	279.6
15°	1080.5	1023.6	954.5	868.8	808.3	711.1	636.2	549.3	475.2	403.1	339.3
17.5°	1321.3	1244.8	1163.2	1074.7	1017.0	921.1	826.0	721.0	631.2	541.9	456.2
20°	1586.1	1449.4	1315.2	1183.4	1099.8	997.7	904.6	800.9	706.2	604.9	511.8
21°	1690.3	1533.8	1370.3	1222.5	1127.8	1018.7	922.3	814.9	715.2	607.3	509.3
22°	1789.1	1602.2	1418.5	1255.5	1152.1	1040.5	936.8	823.9	717.7	604.5	501.9
23°	1879.3	1668.0	1463.0	1284.3	1169.8	1051.2	944.2	827.6	716.5	597.9	490.8
24°	1961.2	1728.6	1500.9	1305.7	1180.5	1054.5	943.3	824.8	710.3	588.0	475.6
25°	2032.0	1776.3	1528.5	1317.2	1183.4	1052.9	939.2	817.3	697.9	571.1	457.9
26°	2085.6	1806.8	1541.6	1318.9	1179.3	1047.5	929.8	803.8	678.6	548.5	434.0
27°	2116.4	1817.9	1541.6	1311.9	1171.0	1037.6	914.5	782.8	653.5	520.5	404.3
28°	2121.8	1813.0	1530.5	1297.5	1155.4	1020.3	892.3	756.0	623.8	487.1	371.8
29°	2107.8	1793.2	1506.6	1272.8	1132.3	998.1	863.5	722.2	588.4	450.5	338.1
30°	2073.2	1757.0	1471.2	1241.5	1104.8	968.9	827.2	684.8	548.5	412.6	299.3
31°	2019.3	1704.7	1425.9	1203.6	1070.6	933.9	787.3	641.5	503.6	365.6	257.4
32°	1947.6	1631.4	1375.7	1160.3	1032.7	893.9	737.5	586.3	444.3	308.4	208.8
33°	1863.2	1559.7	1319.7	1113.8	991.5	839.2	668.7	504.0	371.8	244.6	158.1
34°	1766.9	1482.7	1259.6	1064.8	937.6	758.9	583.1	419.2	292.3	178.7	111.6
35°	1660.2	1400.8	1196.6	1007.2	852.3	660.9	485.1	326.5	211.6	121.1	84.0
36°	1546.6	1309.0	1124.5	924.8	750.2	550.9	381.3	235.1	140.4	90.2	72.5
37°	1439.5	1229.1	1050.0	821.5	634.9	436.1	278.4	156.9	102.5	78.6	64.2
38°	1338.6	1152.1	952.8	707.0	516.3	326.9	183.2	115.7	88.9	69.2	56.8
39°	1244.3	1074.7	839.2	584.3	397.8	230.6	133.0	99.2	77.4	61.4	50.2
40°	1153.3	963.9	715.2	476.4	289.9	161.0	112.0	87.7	68.4	53.9	42.4
42.5°	865.1	619.3	396.1	217.0	136.3	105.0	79.9	61.8	45.3	33.4	25.5
45°	543.1	315.0	170.1	121.9	95.1	71.2	51.9	37.1	27.2	20.2	16.1
47.5°	247.1	135.5	105.4	81.5	61.4	42.4	30.5	22.2	16.5	12.8	9.5
50°	90.6	77.0	62.6	46.5	33.8	24.3	17.7	13.2	9.9	7.4	5.4
51°	70.8	61.8	49.8	35.0	26.8	19.8	14.4	10.7	7.8	5.8	4.1
52°	55.6	49.0	38.3	27.2	21.0	15.6	11.5	8.2	5.8	4.5	3.3
53°	42.8	37.5	28.8	21.0	16.5	12.4	9.1	6.6	4.5	3.3	2.5
54°	31.7	27.6	21.4	16.1	12.8	9.5	6.6	4.9	3.3	2.5	2.1
55°	22.6	20.2	16.1	12.8	9.9	7.4	4.9	3.7	2.5	1.6	1.6
57.5°	9.5	9.1	7.4	6.2	4.9	3.7	2.5	1.6	1.6	1.2	1.6
60°	3.7	3.7	3.3	2.5	2.1	1.6	1.2	1.2	1.2	1.2	1.2





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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°	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
64°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6
65°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6
66°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6
67.5°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6
70°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6
72.5°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
75°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
77.5°	0.4	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6	1.6
80°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
82.5°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
85°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
87.5°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	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: P208846

CATALOG NUMBER: LDSQA6A10835D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
2.5°	84.4	84.4	81.5	80.7	80.3	79.5	77.4	77.4	76.2	74.5	73.7
5°	100.1	99.2	94.7	92.2	90.2	87.7	83.6	81.9	79.5	77.0	74.9
7.5°	115.3	112.4	105.4	101.7	98.8	94.7	89.4	85.6	81.5	77.4	74.5
10°	130.5	124.8	114.9	108.7	103.4	97.6	91.0	86.9	81.5	76.2	72.1
11°	136.7	129.3	118.2	110.4	104.2	97.6	91.0	85.6	80.7	75.4	70.8
12°	148.6	134.6	121.5	112.8	105.0	97.6	90.2	84.4	79.1	73.7	69.2
13°	172.9	147.0	125.2	114.9	106.2	97.6	89.4	83.2	77.4	72.1	67.1
14°	217.0	172.5	135.1	116.9	106.6	97.6	88.5	81.1	75.4	69.6	65.1
15°	266.8	211.6	155.2	124.4	107.1	96.8	86.9	79.1	72.9	67.1	62.6
17.5°	370.2	296.1	219.9	161.4	117.4	94.3	80.7	72.9	65.9	60.1	54.8
20°	412.2	326.1	240.5	172.9	121.5	90.2	73.7	65.5	58.1	52.3	47.8
21°	406.8	320.3	234.3	165.1	113.6	84.4	70.0	62.2	55.2	49.0	44.9
22°	395.7	306.8	219.9	150.7	104.2	78.6	66.7	58.5	51.9	46.1	42.0
23°	380.9	287.4	203.4	135.5	94.3	73.3	63.4	55.2	49.0	43.2	39.5
24°	362.3	268.1	184.5	120.2	84.8	69.2	59.7	51.9	45.7	40.8	37.1
25°	341.8	247.9	164.3	107.5	79.1	65.1	55.6	48.2	42.8	38.3	34.6
26°	316.6	224.0	145.4	95.5	72.1	60.5	51.5	44.9	39.9	35.8	32.1
27°	287.8	199.3	124.4	83.2	66.3	56.0	47.8	42.0	37.5	33.4	29.6
28°	261.9	171.7	106.6	74.1	61.8	51.5	44.5	39.1	35.0	30.9	27.6
29°	229.4	145.4	91.0	67.1	56.8	48.2	41.2	36.2	32.1	28.0	25.1
30°	196.8	120.2	77.8	61.4	51.9	44.1	37.9	33.4	29.2	25.9	23.5
31°	163.1	99.6	68.4	56.4	47.4	40.8	35.0	30.9	26.8	23.9	21.4
32°	124.8	81.5	60.9	51.1	43.2	36.6	32.1	28.0	24.3	21.8	19.4
33°	93.9	68.8	55.2	46.1	39.1	33.8	29.2	25.1	22.2	19.8	17.7
34°	74.9	61.4	49.8	41.6	35.4	30.5	25.9	22.6	19.8	17.7	15.6
35°	65.9	55.2	44.5	37.5	31.7	26.8	23.1	20.2	17.7	15.6	14.0
36°	58.5	49.4	39.5	33.4	27.6	23.5	20.2	17.7	15.2	13.6	12.4
37°	52.3	43.6	35.0	28.8	23.9	20.6	17.7	15.2	13.2	11.9	11.1
38°	46.9	37.5	29.6	24.7	20.6	17.7	15.2	13.2	11.5	10.3	9.5
39°	39.9	31.7	24.7	21.0	17.3	14.8	12.8	11.5	9.9	9.1	8.2
40°	33.4	26.4	20.6	17.3	14.8	12.4	11.1	9.5	8.6	7.8	7.0
42.5°	20.6	16.5	13.2	11.1	9.5	8.2	7.4	6.6	5.8	5.4	4.9
45°	12.8	10.3	8.2	7.0	5.8	5.4	4.9	4.1	4.1	3.7	3.7
47.5°	7.4	6.2	4.5	4.1	3.3	3.3	2.9	2.9	2.5	2.9	2.5
50°	4.1	2.9	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
51°	3.3	2.5	2.1	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1
52°	2.5	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
53°	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
54°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
55°	1.6	1.6	1.6	1.6	1.6	1.2	1.6	1.6	1.6	1.6	1.6
57.5°	1.6	1.6	1.2	1.2	1.6	1.2	1.6	1.6	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



TEST NUMBER: P208846

CATALOG NUMBER: LDSQA6A10835D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
64°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
66°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	2.1	2.1	2.1	2.1	1.6	1.6	1.6	1.6
72.5°	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.6
75°	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P208846

CATALOG NUMBER: LDSQA6A10835D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
2.5°	73.3	73.3	72.9	72.1	65.9	60.5	57.2	56.8
5°	73.7	72.9	71.2	70.0	58.9	51.9	47.8	47.4
7.5°	72.1	70.4	68.4	65.9	52.3	44.9	41.2	40.4
10°	69.2	66.3	63.8	60.5	46.1	39.1	35.8	35.0
11°	67.1	64.2	61.8	58.5	43.6	37.1	33.8	33.4
12°	65.5	62.2	58.9	56.0	41.2	35.0	32.1	31.7
13°	63.0	59.7	56.8	53.5	39.1	33.4	30.5	30.1
14°	60.9	57.2	54.4	51.5	37.1	31.3	29.2	28.8
15°	58.5	54.8	51.5	48.6	35.0	29.6	28.0	27.6
17.5°	51.9	47.8	44.9	42.0	30.1	25.9	24.7	25.1
20°	44.1	40.8	38.3	35.8	25.5	22.6	22.2	22.6
21°	41.2	38.3	36.2	33.8	23.9	21.4	21.4	21.8
22°	38.7	35.8	33.8	31.3	22.6	20.2	20.2	21.0
23°	36.2	33.4	31.3	29.2	21.0	19.4	19.4	20.2
24°	33.8	31.3	29.2	27.2	19.8	18.1	18.5	19.4
25°	31.3	29.2	27.2	25.5	18.5	17.3	17.7	18.5
26°	29.6	27.2	25.5	23.5	17.3	16.5	16.9	18.1
27°	27.2	25.1	23.5	21.8	16.5	15.6	16.5	17.3
28°	25.5	23.5	21.8	20.2	15.2	14.8	15.6	16.9
29°	23.5	21.8	20.2	18.9	14.4	14.0	15.2	16.1
30°	21.4	19.8	18.5	17.3	13.6	13.2	14.4	15.6
31°	19.8	18.5	17.3	16.1	12.8	12.8	14.0	15.2
32°	18.1	16.9	15.6	14.4	11.9	11.9	13.6	14.4
33°	16.5	15.2	14.0	13.2	11.1	11.5	12.8	14.0
34°	14.4	13.6	12.8	11.9	10.3	10.7	12.4	13.6
35°	13.2	12.4	11.5	10.7	9.9	10.3	11.9	13.2
36°	11.5	11.1	10.3	9.9	9.1	9.9	11.5	12.8
37°	10.3	9.9	9.1	8.6	8.6	9.5	11.1	12.4
38°	9.1	8.6	8.2	7.8	8.2	9.1	10.7	11.9
39°	7.8	7.4	7.4	7.0	7.8	8.6	10.3	11.5
40°	7.0	6.6	6.6	6.2	7.4	8.2	9.9	11.5
42.5°	4.9	4.9	4.9	4.9	6.2	7.4	9.1	10.7
45°	3.7	3.7	3.7	3.7	5.4	6.6	7.8	9.9
47.5°	2.9	2.9	2.9	2.9	4.9	6.2	7.4	8.6
50°	2.1	2.1	2.5	2.5	4.5	5.4	6.6	7.8
51°	2.1	2.1	2.1	2.5	4.1	5.4	6.2	7.4
52°	2.1	2.1	2.1	2.1	4.1	4.9	5.8	6.6
53°	1.6	2.1	2.1	2.1	3.7	4.9	5.4	6.2
54°	1.6	1.6	1.6	2.1	3.7	4.5	4.9	5.8
55°	1.6	1.6	1.6	2.1	3.3	4.5	4.9	4.9
57.5°	1.6	1.6	1.6	1.6	3.3	4.1	4.5	4.1
60°	1.6	1.6	1.6	1.6	2.9	3.7	4.1	2.9



TEST NUMBER: P208846

CATALOG NUMBER: LDSQA6A10835D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.6	1.6	1.6	1.6	2.9	3.3	3.3	2.5
64°	1.6	1.6	1.6	1.6	2.9	3.3	3.3	2.5
65°	1.6	1.6	1.6	1.6	2.9	2.9	2.9	2.1
66°	1.6	1.6	1.6	1.6	2.9	2.9	2.9	2.1
67.5°	1.6	1.6	1.6	1.6	2.9	2.9	2.5	2.1
70°	1.6	1.6	1.6	2.1	2.5	2.5	2.5	2.1
72.5°	1.6	1.6	1.6	2.1	2.5	2.5	2.1	1.6
75°	2.1	2.1	2.1	2.1	2.5	2.5	2.1	1.2
77.5°	2.1	2.1	2.1	2.1	2.5	2.1	1.6	1.2
80°	2.1	2.1	1.6	1.6	2.1	2.1	1.2	0.8
82.5°	2.1	2.1	1.6	1.6	2.1	1.6	1.2	0.8
85°	2.1	2.1	1.6	1.6	2.1	1.6	0.8	0.4
87.5°	2.1	1.6	1.6	1.6	2.1	1.6	0.4	0.4
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°	1.2	1.2	1.2	1.2	1.6	1.2	1.6	2.1	2.5	2.5	2.5
62°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6





61°	2.5	2.5	2.1	2.1	1.6	1.2	1.2	1.2	1.2	1.2	1.2
62°	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6





61°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6







61°	1.6	1.6	1.6	1.6	2.9	3.7	3.7	2.9
62°	1.6	1.6	1.6	1.6	2.9	3.3	3.7	2.5



(END OF REPORT)