

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: P208818

Luminaire Tested: **LDSQA6A10935D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29054)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A10935D010TE LARL15SP 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 15° SPOT, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 691.0 lumens  
Efficiency: N/A  
Efficacy: 50.3 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 0.62 / 1.12  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

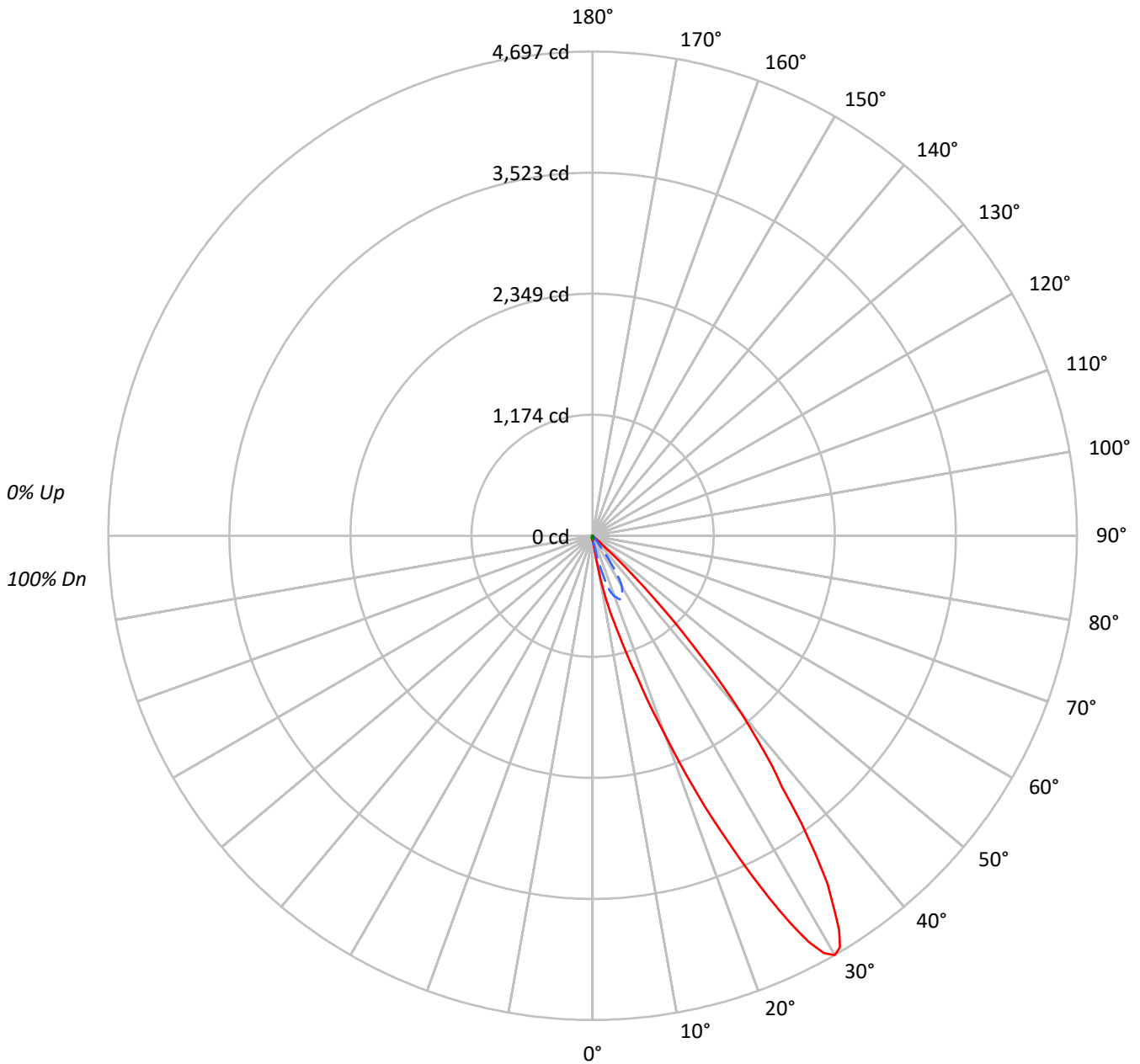
Input Watts (W): 13.73  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75				75
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67				67
5	86	77	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61				61
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55				55
7	75	64	57	52	74	64	57	52	62	56	51	61	55	51	60	55	51	49				49
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44				44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40				40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36				36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	1950	1950	1950
5°	3008	1845	1482
10°	16128	1639	1233
15°	44472	1328	1052
20°	94437	994	921
25°	170938	722	798
30°	233508	532	706
35°	197935	373	647
40°	125647	253	618
45°	43548	195	572
50°	2666	154	496
55°	458	120	390
60°	112	112	250
65°	61	132	194
70°	76	164	201
75°	0	216	216
80°	0	322	149
85°	0	642	148



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.6	0.8
10°-20°	71.1	10.3
20°-30°	246.9	35.7
30°-40°	270.7	39.2
40°-50°	89.3	12.9
50°-60°	3.7	0.5
60°-70°	1.6	0.2
70°-80°	1.2	0.2
80°-90°	0.8	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°	323.6	46.8
0°-40°	594.3	86.0
0°-60°	687.3	99.5
0°-90°	691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	70	57	43	37	34	15
15°	998	407	30	24	24	332
25°	3598	667	15	15	17	1684
35°	3766	222	7	9	12	2263
45°	715	11	3	6	9	630
55°	6	1	2	4	5	9
65°	1	1	1	3	2	1
75°	0	1	1	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°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2.5°	53.7	53.4	53.4	53.4	53.1	52.4	52.4	52.7	52.7	52.4	52.7
5°	69.6	68.9	68.6	68.3	67.0	66.7	65.4	66.3	65.4	64.4	64.4
7.5°	127.5	127.2	121.7	118.1	112.0	104.8	102.9	103.2	98.7	94.5	91.9
10°	368.9	369.6	353.4	359.9	336.6	327.2	309.4	302.9	286.7	273.1	256.6
11°	493.5	492.9	472.5	478.6	455.0	441.7	421.7	411.3	390.9	377.3	356.6
12°	628.1	608.4	601.6	607.4	583.1	565.7	541.4	528.1	502.9	489.0	464.1
13°	761.4	755.6	733.0	738.5	713.6	675.4	665.3	649.5	620.0	603.5	575.7
14°	877.0	855.6	848.5	852.1	827.5	791.2	781.2	776.3	731.0	713.2	682.2
15°	997.7	971.8	961.8	948.5	933.9	890.9	876.3	866.9	820.0	790.2	770.2
17.5°	1436.5	1399.9	1375.3	1345.2	1313.2	1233.6	1200.6	1169.2	1087.0	1047.5	988.0
20°	2061.1	2005.1	1942.0	1876.6	1813.8	1673.4	1591.8	1504.5	1392.2	1298.3	1227.1
21°	2363.3	2296.3	2220.3	2171.1	2053.0	1881.5	1771.4	1646.8	1502.5	1386.3	1296.7
22°	2680.1	2603.7	2540.3	2467.8	2304.1	2099.6	1961.4	1801.5	1614.8	1471.4	1358.2
23°	2987.9	2901.5	2825.4	2737.1	2547.8	2310.9	2146.8	1956.2	1731.3	1553.0	1412.9
24°	3281.7	3192.1	3104.7	2988.5	2771.7	2509.9	2317.0	2099.9	1842.3	1631.3	1464.3
25°	3598.2	3493.3	3380.4	3203.7	2983.3	2687.2	2465.2	2224.8	1941.0	1703.5	1507.7
26°	3913.4	3791.1	3621.8	3441.9	3178.5	2847.1	2594.0	2326.1	2025.1	1761.4	1539.7
27°	4209.2	4078.1	3879.4	3633.1	3353.5	2984.0	2700.2	2406.3	2083.7	1798.9	1554.6
28°	4462.2	4317.9	4096.5	3816.0	3484.0	3084.6	2770.4	2453.6	2111.9	1813.2	1556.6
29°	4628.9	4484.9	4246.4	3934.7	3557.7	3134.5	2798.2	2463.9	2110.2	1804.8	1543.3
30°	4696.8	4551.5	4307.9	3973.6	3571.7	3135.4	2786.9	2442.3	2082.1	1778.2	1517.1
31°	4657.0	4517.6	4270.3	3933.8	3522.5	3090.1	2739.3	2387.6	2026.1	1731.3	1477.9
32°	4510.1	4382.3	4144.8	3824.4	3421.2	2999.2	2657.5	2306.7	1947.1	1670.1	1429.0
33°	4286.2	4179.7	3937.0	3641.6	3285.9	2887.5	2557.8	2224.5	1852.0	1595.4	1376.9
34°	4071.6	3914.4	3699.2	3436.7	3112.5	2742.6	2434.2	2095.0	1751.0	1513.2	1317.4
35°	3765.8	3625.0	3426.4	3201.8	2910.5	2565.6	2257.2	1968.8	1638.1	1433.9	1254.9
36°	3443.2	3319.2	3174.9	2973.6	2695.0	2380.8	2098.6	1813.8	1521.9	1345.6	1188.9
37°	3049.0	3021.2	2886.9	2718.9	2470.1	2179.8	1914.5	1668.2	1413.2	1264.0	1116.4
38°	2816.4	2725.1	2602.1	2454.2	2210.2	1977.9	1736.8	1521.9	1314.5	1187.6	1033.9
39°	2520.3	2443.2	2330.0	2197.0	1986.9	1767.5	1571.4	1399.9	1232.9	1110.6	944.9
40°	2235.5	2171.4	2067.5	1953.3	1762.7	1582.1	1428.7	1292.5	1152.0	1028.4	856.9
42.5°	1409.6	1377.9	1335.2	1319.7	1251.4	1204.5	1148.5	1069.8	946.2	807.1	687.3
45°	715.2	694.8	694.1	725.9	747.5	749.8	744.6	724.6	644.3	604.5	498.0
47.5°	120.4	114.6	118.1	139.5	169.6	206.1	246.9	297.1	350.8	339.5	261.5
50°	39.8	38.5	37.5	38.5	37.2	38.2	37.5	36.6	33.0	34.6	35.6
51°	24.6	26.2	25.2	25.9	25.6	26.5	26.5	26.2	23.9	22.3	20.4
52°	16.8	17.2	17.5	17.8	17.5	17.8	18.1	18.1	17.5	16.8	15.2
53°	12.0	12.0	12.3	12.3	12.3	12.6	12.6	12.6	12.3	12.3	12.0
54°	8.4	8.7	8.7	8.7	8.7	9.1	9.1	9.1	9.4	9.1	9.1
55°	6.1	6.1	6.1	6.1	6.1	6.1	6.5	6.5	6.8	6.8	6.5
57.5°	2.6	2.6	2.3	2.6	2.6	2.6	2.6	2.9	2.9	3.2	3.2
60°	1.3	1.3	1.3	1.3	1.0	1.3	1.3	1.3	1.3	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.6	0.6	0.6	0.6
64°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3
66°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2.5°	51.8	52.4	51.5	52.1	50.8	50.8	49.8	50.2	49.8	49.2	49.2
5°	62.8	62.8	61.2	61.2	59.2	58.2	56.6	56.6	55.7	54.0	53.7
7.5°	86.1	82.8	79.3	78.0	74.1	71.5	68.6	67.3	64.4	61.8	59.9
10°	230.4	209.1	188.0	175.1	143.4	120.4	103.2	91.6	83.2	73.1	69.3
11°	324.9	297.7	270.2	243.4	212.3	180.9	161.2	130.1	110.4	88.0	77.3
12°	427.2	395.1	361.8	331.4	294.2	254.7	227.5	188.0	160.2	123.0	97.1
13°	532.0	495.8	456.0	424.2	382.2	336.9	294.2	257.6	223.0	174.4	136.6
14°	633.0	594.5	550.8	517.4	470.2	421.0	372.8	332.3	290.3	232.4	185.8
15°	722.9	695.4	640.1	607.1	556.3	503.9	450.1	406.8	356.9	292.5	238.8
17.5°	911.3	860.5	792.8	760.2	709.7	664.4	606.1	567.0	505.5	437.5	378.3
20°	1133.3	1058.5	966.9	898.0	810.6	731.0	657.6	626.8	588.6	542.4	487.0
21°	1194.1	1113.5	1013.5	943.3	853.7	771.8	685.4	636.5	594.8	554.7	508.4
22°	1238.4	1153.3	1048.2	975.0	882.8	801.6	713.2	654.7	599.0	553.7	511.9
23°	1276.0	1185.4	1076.0	996.4	900.0	816.1	727.5	669.2	607.7	551.4	506.1
24°	1310.0	1210.6	1095.7	1010.3	908.7	821.3	729.4	671.8	611.9	552.7	498.4
25°	1335.5	1226.5	1107.1	1017.4	910.6	819.7	724.9	667.0	607.1	548.5	489.6
26°	1353.0	1233.9	1110.3	1017.1	906.7	813.2	715.5	656.9	595.4	533.3	475.4
27°	1358.5	1232.0	1105.8	1009.7	897.0	800.6	699.6	637.8	577.3	515.2	456.3
28°	1353.0	1224.2	1095.4	995.1	880.9	779.9	674.1	612.6	557.9	495.1	433.0
29°	1337.8	1210.3	1076.3	973.4	855.3	746.2	641.4	588.3	535.6	464.7	393.8
30°	1314.2	1185.0	1048.8	941.7	817.4	703.8	611.9	566.0	498.7	415.5	339.1
31°	1281.2	1152.4	1013.2	899.6	766.9	662.4	586.4	524.2	441.1	350.5	272.5
32°	1241.0	1113.5	961.4	843.6	717.1	629.7	541.1	460.5	368.3	273.4	198.7
33°	1198.0	1063.7	902.2	784.7	674.4	586.1	475.7	381.9	286.7	192.2	125.2
34°	1148.2	1002.5	835.9	725.5	626.5	520.4	398.0	296.7	204.5	116.8	64.4
35°	1088.0	927.1	769.9	674.4	557.9	433.3	312.9	222.3	128.1	58.9	34.9
36°	1015.2	849.5	712.6	608.7	477.6	347.9	225.9	141.7	68.9	34.6	27.5
37°	922.6	785.7	652.4	530.4	390.9	261.2	145.6	77.0	39.5	28.2	23.3
38°	842.7	726.8	588.0	445.0	301.3	179.0	88.3	43.4	31.1	23.6	19.4
39°	773.7	663.7	503.5	355.0	214.9	108.4	48.5	33.0	25.9	19.4	16.5
40°	713.6	573.8	414.2	266.3	138.2	60.2	34.9	27.5	21.0	16.2	13.3
42.5°	523.6	364.1	191.9	86.1	40.5	30.1	22.0	17.5	13.6	10.0	8.4
45°	311.0	163.7	57.9	35.3	25.6	19.1	13.9	11.0	8.4	6.1	5.2
47.5°	113.6	41.4	28.5	21.4	16.2	12.0	8.7	6.8	5.2	3.6	2.9
50°	23.3	20.1	15.5	12.6	9.4	7.1	5.2	3.9	2.9	2.3	1.9
51°	17.8	15.5	12.6	10.0	7.4	5.8	4.2	3.2	2.6	1.9	1.6
52°	13.6	12.0	9.7	8.1	6.1	4.5	3.2	2.6	1.9	1.3	1.3
53°	10.7	9.4	7.4	6.1	4.9	3.6	2.6	1.9	1.6	1.3	1.3
54°	8.1	7.1	5.8	4.9	3.9	2.9	1.9	1.6	1.3	1.3	1.0
55°	5.8	5.5	4.5	3.6	2.9	2.3	1.6	1.3	1.3	1.0	1.0
57.5°	2.9	2.6	2.3	1.9	1.6	1.3	1.0	1.0	1.0	1.0	0.6
60°	1.6	1.3	1.3	1.3	1.0	1.0	1.0	0.6	0.6	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°	0.6	0.6	0.6	0.6	1.0	0.6	0.6	0.6	1.0	1.0	1.0
64°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
65°	0.3	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
66°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
75°	0.3	0.3	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
77.5°	0.3	0.3	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
80°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
82.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
85°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
87.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0
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: P208818

CATALOG NUMBER: LDSQA6A10935D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2.5°	48.2	48.9	48.2	47.6	47.2	47.2	46.9	46.0	46.3	46.0	46.0
5°	52.1	52.4	51.1	50.2	49.5	48.9	48.2	46.9	46.6	46.3	46.0
7.5°	57.3	57.0	54.4	52.7	51.1	49.8	48.5	46.9	46.3	45.3	44.7
10°	64.7	62.5	58.2	55.3	53.1	50.5	48.5	46.0	44.7	43.4	42.4
11°	68.0	64.7	60.5	56.6	53.7	50.8	48.5	45.3	43.7	42.4	41.1
12°	78.0	69.3	62.5	58.2	54.4	51.1	48.2	45.0	43.0	41.1	39.8
13°	101.0	80.6	66.7	59.2	55.3	51.5	47.9	44.3	42.1	39.8	38.5
14°	138.5	103.6	77.0	62.8	55.7	51.5	47.6	43.7	41.1	38.8	37.2
15°	183.5	139.2	98.1	71.5	57.0	51.1	46.9	42.7	39.8	37.2	35.6
17.5°	309.0	251.1	188.3	134.0	82.8	56.0	44.3	39.5	35.9	33.0	31.1
20°	414.2	347.6	276.7	209.1	143.4	89.3	51.1	35.9	31.7	28.5	26.5
21°	437.2	374.7	299.7	228.8	160.8	103.6	57.9	35.9	30.1	26.9	24.9
22°	449.2	389.0	313.9	241.7	172.8	113.6	65.0	36.2	28.5	25.2	23.0
23°	447.2	392.2	319.4	245.6	178.3	118.4	68.0	36.6	26.9	23.6	21.4
24°	435.6	383.5	313.9	241.1	176.7	117.1	67.0	35.9	25.2	22.0	20.1
25°	421.0	366.3	299.0	228.8	166.3	109.1	62.1	33.7	23.9	20.7	18.8
26°	404.5	349.2	278.3	207.1	149.5	95.5	52.4	29.8	22.0	19.1	17.5
27°	384.8	326.8	252.7	184.1	126.2	77.0	42.1	25.2	20.4	17.5	16.2
28°	355.3	295.1	220.1	153.7	101.0	58.2	31.7	21.7	18.8	16.2	14.9
29°	311.3	250.5	179.3	120.1	74.1	40.1	24.3	19.4	16.8	14.6	13.6
30°	256.3	198.0	133.0	82.5	47.6	27.2	19.7	17.2	14.9	13.3	12.6
31°	194.2	140.8	86.1	47.6	28.5	20.1	17.5	14.9	13.3	12.0	11.6
32°	128.1	85.1	45.6	27.5	20.7	17.5	15.2	13.3	12.0	11.0	10.7
33°	68.6	39.2	26.2	20.7	17.5	15.2	13.3	11.6	10.7	10.0	9.7
34°	34.9	25.6	21.4	17.8	14.9	13.3	11.6	10.4	9.7	9.1	8.7
35°	25.9	22.0	18.4	15.2	12.9	11.6	10.4	9.4	8.7	8.1	8.1
36°	22.0	18.4	15.2	13.3	11.6	10.4	9.4	8.1	7.8	7.4	7.1
37°	18.4	15.9	13.3	11.3	10.0	9.1	8.1	7.4	6.8	6.5	6.5
38°	15.5	13.6	11.3	9.7	8.7	8.1	7.1	6.5	6.1	5.8	5.8
39°	12.9	11.3	9.7	8.4	7.4	6.8	6.1	5.8	5.5	5.2	5.2
40°	10.7	9.7	8.1	7.1	6.5	5.8	5.5	5.2	4.9	4.5	4.9
42.5°	6.8	5.8	5.2	4.9	4.2	4.2	3.9	3.6	3.6	3.6	3.6
45°	3.9	3.6	3.2	3.2	2.9	2.9	2.9	2.6	2.9	2.9	2.9
47.5°	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.3
50°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6
51°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6
52°	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3
53°	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3
54°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
55°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3



TEST NUMBER: P208818

CATALOG NUMBER: LDSQA6A10935D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.3	1.3
64°	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.3
65°	1.0	1.0	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.3
66°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.3	1.3
67.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.3	1.3	1.3
70°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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: P208818

CATALOG NUMBER: LDSQA6A10935D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2.5°	45.0	44.7	44.3	44.3	41.7	40.5	38.8	38.8
5°	44.3	44.0	43.4	42.7	38.5	36.6	34.6	34.3
7.5°	43.0	42.1	41.1	40.5	35.3	33.0	31.1	30.7
10°	40.5	39.2	38.2	37.5	32.0	29.8	28.2	28.2
11°	39.2	37.9	36.9	35.9	30.4	28.5	27.2	27.2
12°	37.9	36.6	35.3	34.6	29.1	27.5	26.2	25.9
13°	36.6	34.9	34.0	33.0	27.8	26.2	25.2	25.2
14°	35.3	33.7	32.4	31.4	26.5	24.9	24.3	24.3
15°	33.3	31.7	30.7	29.8	24.9	23.9	23.3	23.6
17.5°	28.8	27.5	26.5	25.6	21.7	21.4	21.4	21.7
20°	24.6	23.3	22.3	21.7	18.8	19.1	19.4	20.1
21°	23.0	21.7	20.7	20.1	17.8	18.1	18.8	19.4
22°	21.4	20.4	19.4	18.8	16.8	17.2	18.1	18.8
23°	19.7	18.8	18.1	17.5	15.9	16.5	17.5	18.1
24°	18.4	17.5	16.8	16.2	14.9	15.5	16.8	17.5
25°	17.2	16.2	15.5	15.2	13.9	14.9	16.2	16.8
26°	15.9	15.2	14.6	14.2	13.3	14.2	15.5	16.5
27°	14.6	13.9	13.6	13.3	12.3	13.6	14.9	15.9
28°	13.6	12.9	12.6	12.3	11.6	12.9	14.6	15.2
29°	12.6	12.0	11.6	11.3	11.0	12.3	13.9	14.9
30°	11.6	11.3	10.7	10.7	10.4	12.0	13.3	14.2
31°	10.7	10.4	10.0	9.7	9.7	11.3	12.9	13.9
32°	10.0	9.7	9.4	9.1	9.4	10.7	12.3	13.6
33°	9.1	8.7	8.7	8.4	8.7	10.4	12.0	13.3
34°	8.1	8.1	7.8	7.8	8.4	10.0	11.6	12.6
35°	7.4	7.1	7.1	7.1	8.1	9.4	11.3	12.3
36°	6.8	6.8	6.5	6.5	7.8	9.1	11.0	12.0
37°	6.1	6.1	6.1	5.8	7.1	8.7	10.4	11.6
38°	5.5	5.5	5.5	5.5	6.8	8.4	10.4	11.6
39°	4.9	4.9	5.2	5.2	6.5	8.1	9.7	11.3
40°	4.5	4.5	4.5	4.5	6.1	7.8	9.4	11.0
42.5°	3.6	3.6	3.9	3.9	5.5	7.1	8.7	10.0
45°	2.9	2.9	3.2	3.2	4.9	6.5	7.8	9.4
47.5°	2.3	2.3	2.6	2.6	4.2	5.8	7.1	8.4
50°	1.6	1.9	1.9	2.3	3.9	5.2	6.1	7.4
51°	1.6	1.6	1.9	1.9	3.6	4.9	5.8	7.1
52°	1.6	1.6	1.9	1.9	3.2	4.5	5.5	6.5
53°	1.3	1.6	1.6	1.9	3.2	4.5	5.2	6.1
54°	1.3	1.3	1.6	1.6	3.2	4.2	5.2	5.5
55°	1.3	1.3	1.6	1.6	2.9	4.2	4.9	5.2
57.5°	1.3	1.3	1.3	1.3	2.6	3.6	4.2	4.2
60°	1.3	1.3	1.3	1.3	2.6	3.2	3.9	2.9



TEST NUMBER: P208818

CATALOG NUMBER: LDSQA6A10935D010TE LARL15SP 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	2.9	2.9	2.3
64°	1.3	1.3	1.3	1.3	2.3	2.9	2.9	2.3
65°	1.3	1.3	1.3	1.3	2.3	2.6	2.6	1.9
66°	1.3	1.3	1.3	1.3	2.3	2.6	2.6	1.9
67.5°	1.3	1.3	1.3	1.3	1.9	2.3	2.3	1.9
70°	1.3	1.3	1.3	1.3	1.9	2.3	1.9	1.6
72.5°	1.3	1.3	1.3	1.3	1.9	1.9	1.6	1.3
75°	1.3	1.3	1.3	1.3	1.6	1.6	1.3	1.3
77.5°	1.3	1.3	1.3	1.3	1.6	1.6	1.3	1.0
80°	1.3	1.3	1.3	1.3	1.6	1.3	1.0	0.6
82.5°	1.3	1.3	1.3	1.3	1.3	1.0	0.6	0.6
85°	1.3	1.3	1.3	1.3	1.3	1.0	0.6	0.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.0	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°	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
62°	1.0	1.0	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6





61°	1.3	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.6	1.0	1.0
62°	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.6	0.6	1.0	1.0





61°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
62°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0







61°	1.3	1.3	1.3	1.3	2.3	3.2	3.6	2.6
62°	1.3	1.3	1.3	1.3	2.3	2.9	3.2	2.3



(END OF REPORT)