

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: P208899

Luminaire Tested: **LDSQA6A20940D010TE LAR35FL 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29058)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A20940D010TE LAR35FL 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1914.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 2.55 / 0.56 / 1.24
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

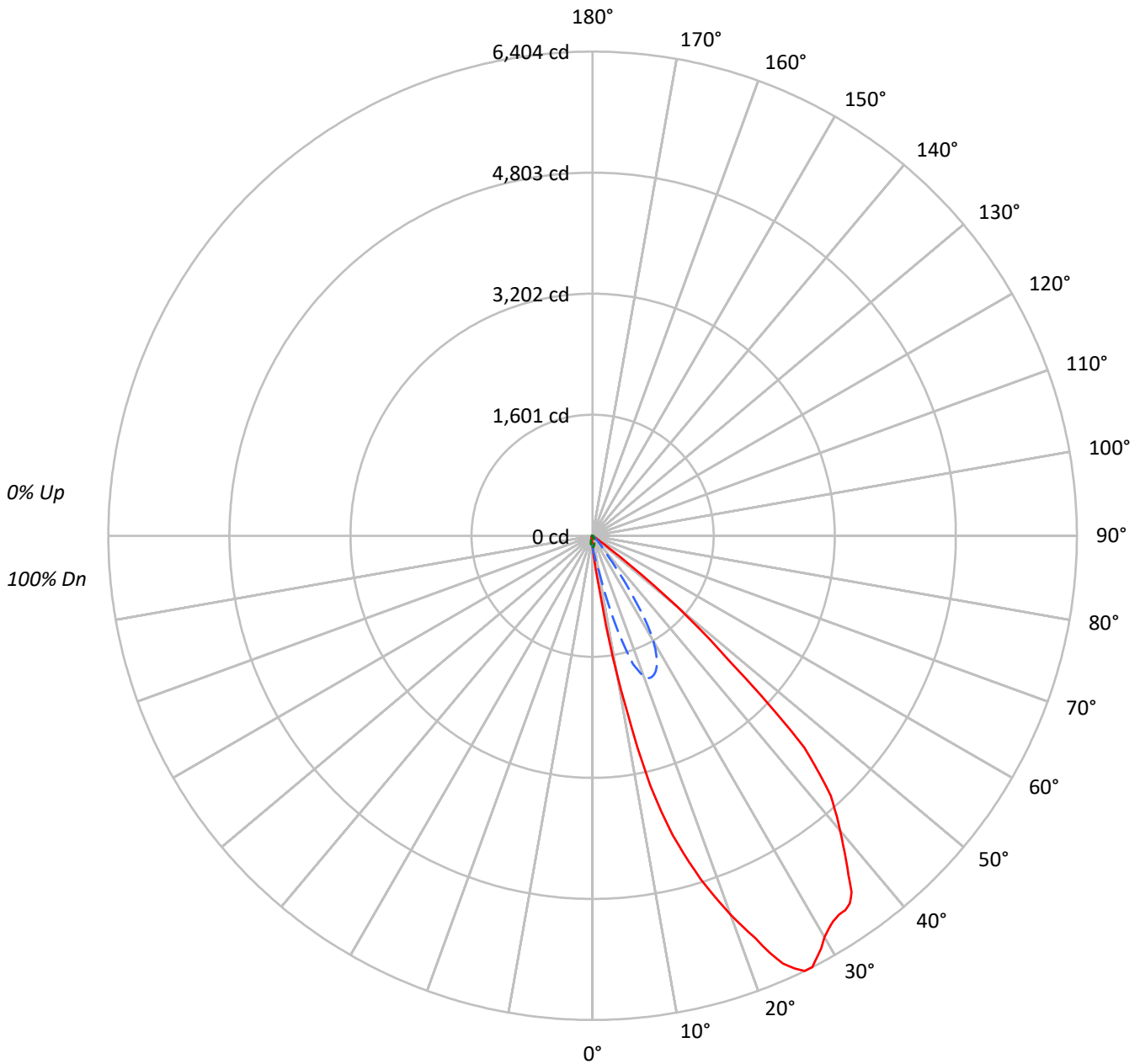
Input Watts (W): 28.81
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	71	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60																			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54																			
7	75	64	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48																			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44																			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39																			
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6544	6544	6544
5°	16039	6241	3449
10°	81288	5176	2518
15°	182862	3923	2006
20°	244228	2758	1682
25°	300071	1924	1473
30°	304737	1322	1352
35°	311788	830	1198
40°	286315	500	1102
45°	241118	347	1005
50°	98625	295	891
55°	4804	285	668
60°	276	276	439
65°	61	326	387
70°	76	403	403
75°	0	632	416
80°	0	942	471
85°	0	1877	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	1.2
10°-20°	253.0	13.2
20°-30°	582.8	30.4
30°-40°	640.8	33.5
40°-50°	375.9	19.6
50°-60°	30.6	1.6
60°-70°	3.1	0.2
70°-80°	2.7	0.1
80°-90°	2.1	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°	859.2	44.9
0°-40°	1500.0	78.4
0°-60°	1906.6	99.6
0°-90°	1914.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1914.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	152	152	152	152	152	
5°	371	256	144	89	80	78
15°	4102	1341	88	48	45	1158
25°	6316	1976	40	28	31	2830
35°	5932	711	16	17	23	3613
45°	3960	79	6	11	16	2742
55°	64	4	4	7	9	256
65°	1	2	3	4	4	1
75°	0	2	4	3	2	0
85°	0	2	4	2	1	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°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0
2.5°	234.3	229.2	228.0	227.3	223.5	225.4	226.7	223.5	223.5	223.5	216.6
5°	371.1	357.2	355.3	352.1	342.6	342.6	343.9	335.6	332.5	321.1	310.9
7.5°	761.2	708.6	733.3	719.4	680.8	668.1	665.6	630.7	609.2	566.2	526.9
10°	1859.3	1741.5	1777.6	1739.6	1649.7	1592.7	1592.7	1495.2	1422.4	1294.4	1165.2
11°	2322.9	2249.4	2286.1	2241.8	2136.1	2065.8	2063.9	1949.2	1859.9	1702.3	1541.4
12°	2878.3	2765.5	2742.1	2752.9	2634.5	2554.0	2544.5	2418.5	2317.8	2135.4	1951.8
13°	3387.4	3311.4	3231.6	3236.7	3112.6	3030.3	3010.0	2877.6	2771.2	2573.7	2370.4
14°	3765.5	3723.1	3654.0	3646.4	3534.3	3451.4	3426.7	3291.8	3180.3	2981.5	2768.1
15°	4102.4	4062.5	3997.3	3980.2	3872.5	3788.3	3759.8	3619.2	3505.2	3317.8	3111.3
17.5°	4770.5	4744.5	4719.2	4650.8	4569.1	4446.3	4406.4	4243.0	4094.8	3925.7	3700.3
20°	5330.3	5295.5	5242.3	5186.6	5083.4	4950.4	4922.5	4725.5	4570.4	4401.9	4138.5
21°	5534.9	5500.7	5443.7	5379.7	5262.6	5122.0	5083.4	4875.6	4712.2	4537.5	4269.6
22°	5739.4	5707.1	5648.9	5567.8	5438.0	5280.3	5222.7	5003.6	4831.3	4638.8	4369.6
23°	5992.7	5916.8	5853.4	5754.0	5601.4	5422.8	5344.9	5108.7	4927.6	4726.8	4452.6
24°	6193.5	6116.2	6042.1	5921.2	5748.9	5550.7	5451.3	5199.9	5015.0	4797.7	4521.0
25°	6316.4	6276.5	6198.6	6061.1	5874.3	5657.7	5541.2	5274.6	5072.6	4857.3	4577.4
26°	6404.4	6362.6	6295.5	6151.7	5973.1	5752.7	5610.9	5337.3	5128.3	4895.9	4614.7
27°	6401.2	6375.9	6319.5	6192.9	6042.8	5818.6	5669.1	5379.1	5157.4	4915.5	4629.3
28°	6316.4	6316.4	6291.0	6188.4	6059.2	5847.7	5690.0	5386.7	5160.6	4911.1	4619.8
29°	6239.1	6219.5	6224.5	6144.1	6033.9	5827.5	5674.8	5364.5	5137.2	4882.6	4591.3
30°	6129.5	6123.8	6146.0	6081.4	5990.2	5784.4	5626.1	5318.3	5091.0	4835.7	4545.7
31°	6061.1	6045.9	6067.5	6013.6	5913.6	5702.7	5552.0	5251.8	5030.2	4775.6	4490.0
32°	6009.8	5991.5	6016.8	5947.1	5838.2	5629.9	5469.0	5179.0	4951.0	4709.1	4419.0
33°	5978.8	5973.1	5982.6	5888.3	5748.3	5531.1	5385.4	5101.1	4875.0	4634.4	4341.1
34°	5973.1	5961.1	5944.6	5809.1	5657.7	5437.4	5291.1	5014.3	4793.3	4546.3	4246.2
35°	5931.9	5905.4	5868.0	5699.5	5529.8	5318.9	5180.9	4914.3	4690.7	4441.2	4128.4
36°	5825.6	5780.6	5740.1	5564.6	5388.6	5191.6	5061.8	4800.9	4578.0	4320.2	3993.5
37°	5621.0	5605.8	5556.4	5407.0	5246.1	5056.8	4931.4	4682.5	4452.0	4181.6	3842.8
38°	5443.7	5427.2	5381.6	5246.7	5100.5	4918.7	4793.9	4529.9	4310.1	4025.8	3678.1
39°	5263.8	5249.3	5214.4	5067.5	4940.2	4769.2	4644.5	4380.4	4155.6	3852.9	3496.3
40°	5094.1	5079.6	5047.9	4902.2	4776.2	4613.5	4486.8	4217.7	4006.1	3664.8	3288.0
42.5°	4661.6	4612.2	4571.7	4431.7	4319.0	4149.9	4013.1	3736.4	3440.0	3078.4	2700.3
45°	3959.9	3898.5	3850.4	3760.4	3637.6	3507.1	3322.2	3023.3	2716.8	2367.2	1852.3
47.5°	2472.3	2386.2	2331.1	2228.5	2090.5	2001.2	1952.4	1794.7	1585.7	1431.2	1039.8
50°	1472.4	1409.1	1362.8	1214.0	1108.9	978.4	854.3	625.0	501.6	379.3	314.1
51°	1058.8	1006.9	979.7	856.8	777.0	683.9	596.6	435.1	350.2	264.7	218.5
52°	613.0	573.1	571.9	492.7	461.7	423.7	362.2	286.9	245.1	191.9	164.0
53°	285.0	261.5	266.0	229.2	217.2	212.1	210.2	167.2	163.4	143.1	121.0
54°	127.9	117.2	109.6	105.8	102.6	103.9	106.4	96.3	92.5	89.9	82.3
55°	64.0	58.3	55.1	58.3	51.9	52.6	54.5	50.7	49.4	49.4	48.1
57.5°	13.9	13.3	13.3	13.9	13.3	13.3	13.9	13.9	13.9	13.3	13.3
60°	3.2	3.2	3.2	3.2	3.8	3.8	3.8	3.8	4.4	5.1	5.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3
64°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
66°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3
77.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.3
80°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	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



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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°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0
2.5°	215.9	210.9	211.5	207.7	205.2	203.3	205.2	199.5	198.2	192.5	189.4
5°	308.4	296.4	292.6	283.7	273.6	268.5	266.6	255.8	250.1	239.4	233.0
7.5°	509.8	471.8	449.6	423.7	392.0	376.2	355.9	336.3	314.7	294.5	280.5
10°	1108.9	987.9	897.4	804.3	678.2	614.9	533.9	474.3	414.8	367.9	338.8
11°	1469.2	1315.3	1193.1	1063.9	896.7	806.2	687.7	590.2	487.0	415.4	368.6
12°	1859.3	1675.0	1524.3	1355.9	1151.3	1029.7	881.5	752.3	608.6	498.4	418.0
13°	2252.6	2041.1	1866.9	1663.0	1430.6	1274.2	1099.4	939.8	759.9	619.3	502.8
14°	2633.2	2400.8	2207.6	1970.8	1718.7	1530.0	1331.2	1139.9	927.8	756.8	610.5
15°	2973.3	2727.5	2525.5	2269.7	2005.0	1786.5	1563.6	1341.3	1120.3	902.4	728.3
17.5°	3558.4	3300.0	3101.2	2832.0	2570.5	2321.6	2066.4	1777.6	1504.7	1234.3	1028.4
20°	4001.1	3689.5	3451.4	3132.8	2834.6	2554.0	2284.2	1989.8	1720.0	1428.1	1193.7
21°	4113.8	3790.8	3547.6	3228.5	2906.8	2610.4	2326.7	2017.6	1737.7	1443.2	1210.2
22°	4209.4	3885.2	3624.9	3289.9	2961.2	2647.8	2352.6	2027.8	1736.5	1432.5	1198.2
23°	4282.3	3952.3	3687.6	3343.7	3003.7	2675.0	2364.7	2023.3	1721.3	1410.3	1170.3
24°	4351.3	4013.7	3737.6	3377.3	3028.4	2679.4	2358.3	2005.6	1695.9	1376.8	1132.9
25°	4395.6	4054.9	3764.9	3393.8	3029.6	2667.4	2337.4	1975.8	1657.3	1331.2	1084.2
26°	4427.3	4074.5	3774.4	3388.1	3019.5	2643.3	2304.5	1931.5	1604.1	1274.8	1027.8
27°	4432.3	4073.3	3762.3	3368.4	2985.9	2597.7	2251.3	1869.4	1535.7	1209.6	966.4
28°	4413.3	4049.8	3731.9	3330.4	2939.1	2536.9	2182.3	1794.7	1459.7	1137.4	898.6
29°	4379.8	4010.6	3680.0	3268.4	2865.6	2455.2	2099.3	1708.0	1374.2	1055.7	823.9
30°	4326.6	3953.6	3613.5	3195.5	2781.4	2362.8	2003.1	1606.6	1269.7	955.6	726.4
31°	4262.6	3880.1	3523.6	3095.5	2675.6	2253.8	1891.6	1471.7	1135.5	829.6	609.9
32°	4179.7	3787.0	3420.4	2984.7	2557.2	2129.1	1739.0	1299.5	975.9	683.3	483.8
33°	4087.8	3683.8	3297.5	2841.5	2425.5	1961.9	1538.9	1104.4	797.9	528.8	355.9
34°	3974.5	3560.3	3167.0	2695.9	2256.4	1744.7	1281.8	894.2	614.3	378.1	241.9
35°	3843.4	3417.8	3008.7	2524.3	2029.0	1494.5	1042.4	711.2	439.5	252.0	176.1
36°	3690.8	3263.3	2840.9	2302.0	1770.0	1233.0	811.2	521.2	300.8	191.9	151.4
37°	3526.1	3090.4	2616.1	2070.2	1492.0	975.3	603.5	366.7	227.3	170.4	131.1
38°	3341.2	2906.1	2361.5	1782.7	1212.7	737.1	431.3	273.6	195.7	148.2	112.1
39°	3136.6	2678.8	2070.2	1480.0	943.6	531.3	328.7	224.8	169.1	127.9	96.9
40°	2909.9	2358.3	1752.9	1181.1	701.7	383.1	267.9	194.4	147.6	109.6	82.3
42.5°	2155.1	1564.2	964.5	557.3	331.2	238.7	178.0	136.8	96.9	65.9	42.4
45°	1295.1	798.6	423.0	289.4	209.6	160.2	114.6	79.2	46.2	28.5	19.6
47.5°	578.8	333.7	236.8	186.8	135.5	95.6	55.7	33.6	20.9	14.6	10.8
50°	225.4	183.0	141.2	107.7	65.2	38.0	24.1	15.8	10.8	7.6	5.1
51°	174.2	141.9	110.2	79.2	43.7	26.6	17.7	12.0	8.2	5.7	3.8
52°	133.6	108.9	83.0	53.2	29.8	20.3	13.9	8.9	6.3	3.8	3.2
53°	98.2	83.6	57.6	37.4	21.5	15.2	10.8	7.0	4.4	3.2	2.5
54°	67.8	57.6	36.7	23.4	15.8	11.4	7.6	5.1	3.2	2.5	2.5
55°	41.2	36.1	24.1	17.1	11.4	8.2	5.7	3.8	2.5	1.9	1.9
57.5°	12.7	11.4	9.5	7.6	5.1	3.8	2.5	1.9	1.9	1.9	1.9
60°	4.4	4.4	3.8	3.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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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°	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
64°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	2.5
65°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	2.5
66°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	2.5
67.5°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	2.5
70°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	2.5	2.5
72.5°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	2.5	2.5
75°	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5
77.5°	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5
80°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	2.5	2.5	2.5
82.5°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	2.5	2.5	2.5
87.5°	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5
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: P208899

CATALOG NUMBER: LDSQA6A20940D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0
2.5°	186.8	183.7	181.1	178.6	175.4	173.5	171.6	167.8	165.9	161.5	158.3
5°	226.1	219.1	212.1	205.2	198.9	193.8	188.7	181.8	176.7	169.1	162.8
7.5°	265.3	251.4	238.7	228.0	216.6	208.3	198.9	188.7	179.9	169.7	160.2
10°	309.7	283.7	262.2	243.2	226.7	213.4	200.8	186.8	176.1	162.8	152.0
11°	328.7	297.6	271.0	248.2	229.2	214.0	199.5	184.3	172.3	159.0	146.9
12°	356.5	310.9	279.9	253.3	230.5	213.4	197.6	181.1	168.5	154.5	142.5
13°	403.4	335.0	288.8	256.5	232.4	212.1	194.4	176.7	163.4	148.8	136.2
14°	481.3	377.4	307.1	262.2	232.4	210.9	190.6	171.6	157.1	142.5	129.8
15°	576.3	446.5	342.6	274.2	231.8	208.3	186.8	166.6	150.7	135.5	121.6
17.5°	819.5	645.9	494.6	363.5	266.0	203.9	172.9	149.5	132.4	115.3	102.6
20°	965.1	767.5	597.8	446.5	321.1	223.5	160.9	130.5	112.1	96.9	84.9
21°	982.9	783.4	609.2	456.6	327.4	226.1	157.1	122.2	103.9	88.7	77.9
22°	977.2	778.9	604.2	450.9	321.1	220.4	150.1	114.6	96.3	81.7	70.9
23°	949.3	754.2	580.1	428.1	304.0	207.1	140.0	106.4	88.7	74.7	64.6
24°	908.8	713.1	543.4	394.5	273.6	183.7	125.4	97.5	81.1	68.4	60.2
25°	860.6	666.2	497.1	356.5	237.5	157.7	110.2	88.7	73.5	62.1	55.1
26°	806.8	615.5	449.0	313.5	199.5	132.4	97.5	80.4	65.9	55.7	50.0
27°	749.2	560.5	398.3	266.6	165.9	112.7	88.0	71.6	59.5	51.3	45.6
28°	687.7	505.4	343.2	222.3	137.4	98.8	79.2	64.0	53.2	46.2	41.8
29°	618.7	440.8	290.0	181.8	113.4	87.4	70.3	57.0	48.1	42.4	38.6
30°	532.0	367.9	232.4	146.3	97.5	77.9	62.7	51.3	43.7	39.3	35.5
31°	433.2	286.2	176.7	115.9	84.9	69.0	55.7	46.2	39.9	36.1	32.3
32°	327.4	208.3	131.7	96.3	74.7	60.8	49.4	41.8	36.7	32.3	29.8
33°	230.5	148.8	106.4	83.6	65.2	53.2	44.3	38.0	33.6	29.1	26.6
34°	158.3	119.7	92.5	72.2	57.0	47.5	39.9	34.2	29.8	26.0	23.4
35°	133.6	104.5	79.8	62.1	49.4	41.8	35.5	30.4	26.0	22.8	20.3
36°	115.3	90.6	68.4	54.5	43.1	36.1	31.0	26.0	22.2	19.0	17.7
37°	99.4	77.9	58.9	46.9	36.7	30.4	25.3	21.5	19.0	16.5	15.2
38°	86.1	65.9	50.0	39.9	30.4	24.7	20.9	17.7	15.8	13.9	12.7
39°	73.5	55.1	40.5	31.7	24.1	20.3	17.1	15.2	13.3	12.0	10.8
40°	60.8	43.7	31.0	24.7	19.0	16.5	13.9	12.7	10.8	10.1	9.5
42.5°	28.5	20.9	16.5	13.9	11.4	10.1	8.9	7.6	7.0	6.3	6.3
45°	14.6	12.0	8.9	7.6	6.3	5.7	5.1	4.4	4.4	4.4	4.4
47.5°	7.6	5.7	4.4	3.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2
50°	3.8	2.5	2.5	2.5	1.9	2.5	2.5	2.5	2.5	3.2	3.2
51°	2.5	2.5	1.9	1.9	1.9	2.5	2.5	2.5	2.5	3.2	3.2
52°	2.5	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5	3.2	3.2
53°	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	3.2	3.2
54°	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	3.2	3.2
55°	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5	3.2
57.5°	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5	2.5	3.2
60°	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5	2.5	2.5	3.2



TEST NUMBER: P208899

CATALOG NUMBER: LDSQA6A20940D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.2
64°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.2
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.2
66°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.2	3.2
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.2	3.2
70°	2.5	2.5	2.5	2.5	2.5	2.5	3.2	3.2	3.2	3.2	3.2
72.5°	2.5	2.5	2.5	2.5	2.5	3.2	3.2	3.2	3.2	3.2	3.2
75°	2.5	2.5	2.5	2.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	2.5	2.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	2.5	2.5	2.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	2.5	2.5	2.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	2.5	2.5	2.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	2.5	2.5	2.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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: P208899

CATALOG NUMBER: LDSQA6A20940D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0
2.5°	158.3	152.6	153.3	150.1	125.4	112.1	105.1	100.1
5°	159.6	151.4	149.5	144.4	104.5	89.3	83.0	79.8
7.5°	155.2	144.4	140.6	133.6	88.7	74.7	69.7	67.1
10°	145.0	133.0	126.7	118.4	76.0	64.6	59.5	57.6
11°	140.0	127.3	121.0	112.7	71.6	60.8	56.4	54.5
12°	134.3	121.0	115.3	106.4	67.1	57.0	53.2	51.3
13°	127.9	114.6	108.9	100.7	62.7	53.8	50.7	48.8
14°	120.3	108.3	102.6	95.0	58.9	50.7	48.1	46.9
15°	113.4	102.0	95.6	88.0	55.7	48.1	46.2	45.0
17.5°	95.0	84.9	79.8	73.5	46.9	41.2	41.2	40.5
20°	77.9	69.0	65.2	60.2	39.3	36.1	36.7	36.7
21°	71.6	64.0	60.2	55.7	37.4	34.2	35.5	35.5
22°	65.2	58.3	55.7	51.3	34.8	32.3	34.2	34.2
23°	60.2	53.2	51.3	47.5	32.3	31.0	32.9	32.9
24°	55.1	49.4	46.9	43.7	30.4	29.1	31.7	32.3
25°	50.7	45.0	43.1	40.5	28.5	27.9	30.4	31.0
26°	46.2	41.2	39.9	37.4	26.6	26.6	29.1	30.4
27°	42.4	38.6	36.7	34.2	24.7	25.3	28.5	29.1
28°	39.3	35.5	33.6	31.7	22.8	24.1	27.2	28.5
29°	36.1	32.3	31.0	29.1	21.5	22.8	26.0	27.9
30°	32.9	29.8	28.5	26.6	20.3	21.5	25.3	27.2
31°	30.4	27.2	26.0	24.1	19.0	20.9	24.1	26.0
32°	27.2	24.7	23.4	22.2	17.7	19.6	23.4	25.3
33°	24.7	21.5	20.9	19.6	17.1	19.0	22.8	24.1
34°	21.5	19.0	18.4	17.7	15.8	17.7	21.5	23.4
35°	18.4	17.1	16.5	15.8	14.6	17.1	20.9	22.8
36°	16.5	14.6	14.6	13.9	13.9	16.5	20.3	22.2
37°	13.9	13.3	12.7	12.7	12.7	15.2	19.0	21.5
38°	12.0	11.4	11.4	11.4	12.0	14.6	18.4	20.9
39°	10.1	10.1	10.1	10.1	11.4	13.9	17.7	20.3
40°	8.9	8.9	8.9	8.9	10.8	13.3	17.1	19.6
42.5°	6.3	6.3	6.3	7.0	8.9	12.0	15.2	18.4
45°	5.1	5.1	5.1	5.7	8.2	10.8	13.9	16.5
47.5°	3.8	3.8	4.4	5.1	7.0	9.5	12.7	15.2
50°	3.2	3.8	3.8	4.4	6.3	8.9	10.8	13.3
51°	3.2	3.2	3.8	3.8	5.7	8.2	10.1	12.7
52°	3.2	3.2	3.8	3.8	5.7	7.6	10.1	11.4
53°	3.2	3.2	3.8	3.8	5.7	7.6	9.5	10.8
54°	3.2	3.2	3.8	3.8	5.1	7.0	8.9	10.1
55°	3.2	3.2	3.8	3.8	5.1	7.0	8.9	8.9
57.5°	3.2	3.2	3.2	3.8	4.4	6.3	7.6	7.6
60°	3.2	3.2	3.2	3.2	4.4	5.7	7.0	5.1



TEST NUMBER: P208899

CATALOG NUMBER: LDSQA6A20940D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	3.2	3.2	3.2	3.2	3.8	5.1	5.7	3.8
64°	3.2	3.2	3.2	3.8	3.8	5.1	5.1	3.8
65°	3.2	3.2	3.2	3.2	3.8	4.4	5.1	3.8
66°	3.2	3.2	3.2	3.2	3.8	4.4	4.4	3.8
67.5°	3.2	3.2	3.2	3.2	3.8	4.4	4.4	3.2
70°	3.2	3.2	3.2	3.2	3.8	3.8	3.8	3.2
72.5°	3.2	3.2	3.2	3.2	3.2	3.8	3.2	2.5
75°	3.2	3.2	3.8	3.8	3.2	3.2	2.5	2.5
77.5°	3.2	3.2	3.8	3.8	3.2	3.2	2.5	1.9
80°	3.2	3.2	3.8	3.8	3.2	2.5	1.9	1.9
82.5°	3.2	3.2	3.8	3.8	3.2	2.5	1.9	1.3
85°	3.2	3.2	3.8	3.8	3.2	2.5	1.3	1.3
87.5°	3.2	3.2	3.8	3.8	3.2	1.9	1.3	0.6
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°	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	3.2	3.2
62°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9





61°	3.2	3.2	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9





61°	1.9	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.2
62°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.2





61°	3.2	3.2	3.2	3.2	4.4	5.7	6.3	4.4
62°	3.2	3.2	3.2	3.2	4.4	5.7	5.7	4.4



(END OF REPORT)