

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: P208877

Luminaire Tested: **LDSQA6A10830D010TE LAR35FL 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208877
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: LDSQA6A10830D010TE LAR35FL 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1177.7 lumens
Efficiency: N/A
Efficacy: 85.8 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

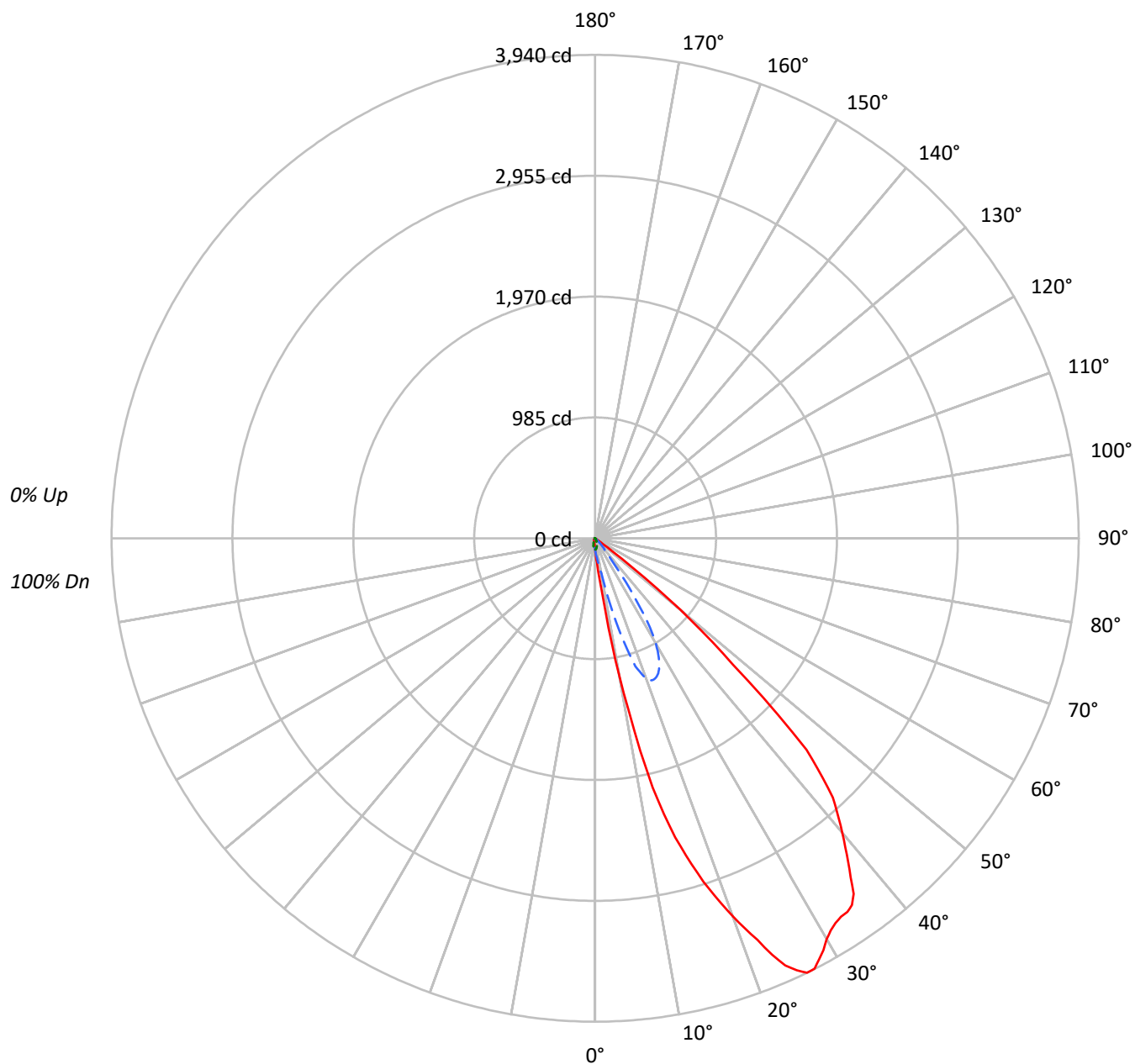
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4026	4026	4026
5°	9867	3838	2122
10°	50007	3187	1552
15°	112497	2416	1235
20°	150249	1695	1036
25°	184601	1183	907
30°	187476	815	835
35°	191812	510	736
40°	176141	309	680
45°	148334	213	615
50°	60673	181	549
55°	2950	173	413
60°	164	164	267
65°	41	194	234
70°	50	239	239
75°	0	383	266
80°	0	570	298
85°	0	1136	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	1.2
10°-20°	155.7	13.2
20°-30°	358.5	30.4
30°-40°	394.2	33.5
40°-50°	231.3	19.6
50°-60°	18.9	1.6
60°-70°	1.9	0.2
70°-80°	1.6	0.1
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°	528.6	44.9
0°-40°	922.8	78.4
0°-60°	1172.9	99.6
0°-90°	1177.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	228	157	89	55	49	48
15°	2524	825	54	30	28	712
25°	3886	1216	25	17	19	1741
35°	3649	438	10	10	14	2223
45°	2436	49	4	7	10	1687
55°	39	2	2	4	6	157
65°	0	1	2	3	2	1
75°	0	1	2	2	2	0
85°	0	1	2	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°	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
2.5°	144.1	141.0	140.3	139.9	137.5	138.7	139.5	137.5	137.5	137.5	133.2
5°	228.3	219.7	218.6	216.6	210.8	210.8	211.5	206.5	204.5	197.5	191.3
7.5°	468.3	436.0	451.1	442.6	418.8	411.0	409.5	388.0	374.8	348.3	324.1
10°	1143.8	1071.4	1093.6	1070.2	1014.9	979.8	979.8	919.8	875.0	796.3	716.8
11°	1429.0	1383.8	1406.4	1379.2	1314.1	1270.8	1269.7	1199.2	1144.2	1047.2	948.3
12°	1770.7	1701.3	1686.9	1693.6	1620.7	1571.2	1565.4	1487.9	1425.9	1313.7	1200.7
13°	2083.9	2037.2	1988.1	1991.2	1914.8	1864.2	1851.7	1770.3	1704.9	1583.3	1458.2
14°	2316.5	2290.4	2247.9	2243.3	2174.3	2123.3	2108.1	2025.1	1956.5	1834.2	1702.9
15°	2523.8	2499.2	2459.1	2448.6	2382.4	2330.5	2313.0	2226.5	2156.4	2041.1	1914.1
17.5°	2934.8	2918.8	2903.2	2861.2	2810.9	2735.3	2710.8	2610.3	2519.1	2415.1	2276.4
20°	3279.2	3257.8	3225.0	3190.8	3127.3	3045.4	3028.3	2907.1	2811.7	2708.1	2546.0
21°	3405.0	3384.0	3348.9	3309.6	3237.5	3151.0	3127.3	2999.5	2899.0	2791.4	2626.6
22°	3530.9	3511.0	3475.2	3425.3	3345.4	3248.4	3213.0	3078.2	2972.2	2853.8	2688.2
23°	3686.7	3640.0	3601.0	3539.8	3445.9	3336.1	3288.2	3142.8	3031.4	2907.9	2739.2
24°	3810.2	3762.7	3717.1	3642.7	3536.7	3414.8	3353.6	3198.9	3085.2	2951.6	2781.3
25°	3885.8	3861.2	3813.3	3728.8	3613.9	3480.6	3408.9	3244.9	3120.6	2988.2	2816.0
26°	3939.9	3914.2	3872.9	3784.5	3674.6	3539.1	3451.8	3283.5	3154.9	3011.9	2839.0
27°	3938.0	3922.4	3887.7	3809.8	3717.5	3579.6	3487.6	3309.2	3172.8	3024.0	2847.9
28°	3885.8	3885.8	3870.2	3807.1	3727.6	3597.5	3500.5	3313.9	3174.8	3021.3	2842.1
29°	3838.3	3826.2	3829.3	3779.8	3712.0	3585.0	3491.1	3300.2	3160.4	3003.8	2824.5
30°	3770.9	3767.4	3781.0	3741.3	3685.2	3558.5	3461.1	3271.8	3131.9	2974.9	2796.5
31°	3728.8	3719.4	3732.7	3699.6	3638.0	3508.3	3415.6	3230.9	3094.5	2937.9	2762.2
32°	3697.2	3685.9	3701.5	3658.7	3591.7	3463.5	3364.5	3186.1	3045.8	2897.0	2718.6
33°	3678.1	3674.6	3680.5	3622.4	3536.3	3402.7	3313.1	3138.2	2999.1	2851.0	2670.7
34°	3674.6	3667.2	3657.1	3573.7	3480.6	3345.0	3255.0	3084.8	2948.8	2796.9	2612.2
35°	3649.3	3632.9	3610.0	3506.3	3401.9	3272.2	3187.3	3023.2	2885.7	2732.2	2539.8
36°	3583.9	3556.2	3531.3	3423.3	3315.0	3193.9	3114.0	2953.5	2816.4	2657.8	2456.8
37°	3458.0	3448.7	3418.3	3326.3	3227.4	3110.9	3033.8	2880.6	2738.8	2572.5	2364.0
38°	3348.9	3338.8	3310.8	3227.8	3137.8	3026.0	2949.2	2786.8	2651.6	2476.6	2262.8
39°	3238.3	3229.3	3207.9	3117.5	3039.2	2934.0	2857.3	2694.8	2556.5	2370.3	2150.9
40°	3133.9	3124.9	3105.4	3015.8	2938.3	2838.2	2760.3	2594.7	2464.6	2254.6	2022.8
42.5°	2867.8	2837.4	2812.5	2726.4	2657.0	2553.0	2468.8	2298.6	2116.3	1893.8	1661.2
45°	2436.1	2398.3	2368.7	2313.4	2237.8	2157.6	2043.8	1859.9	1671.4	1456.3	1139.6
47.5°	1521.0	1468.0	1434.1	1371.0	1286.0	1231.1	1201.1	1104.1	975.5	880.5	639.7
50°	905.8	866.8	838.4	746.8	682.2	601.9	525.6	384.5	308.6	233.4	193.2
51°	651.4	619.5	602.7	527.1	478.0	420.8	367.0	267.6	215.4	162.8	134.4
52°	377.1	352.6	351.8	303.1	284.0	260.6	222.8	176.5	150.8	118.0	100.9
53°	175.3	160.9	163.6	141.0	133.6	130.5	129.3	102.9	100.5	88.0	74.4
54°	78.7	72.1	67.4	65.1	63.1	63.9	65.5	59.2	56.9	55.3	50.6
55°	39.3	35.8	33.9	35.8	31.9	32.3	33.5	31.2	30.4	30.4	29.6
57.5°	8.6	8.2	8.2	8.6	8.2	8.2	8.6	8.6	8.6	8.2	8.2
60°	1.9	1.9	1.9	1.9	2.3	2.3	2.3	2.3	2.7	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.4	0.4	0.4	0.4	0.4	0.4	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	0.8	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
66°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
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°	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
2.5°	132.9	129.7	130.1	127.8	126.2	125.1	126.2	122.7	121.9	118.4	116.5
5°	189.7	182.3	180.0	174.5	168.3	165.2	164.0	157.4	153.9	147.3	143.4
7.5°	313.6	290.2	276.6	260.6	241.2	231.4	219.0	206.9	193.6	181.2	172.6
10°	682.2	607.8	552.1	494.8	417.3	378.3	328.4	291.8	255.2	226.4	208.4
11°	903.9	809.2	734.0	654.5	551.7	496.0	423.1	363.1	299.6	255.6	226.7
12°	1143.8	1030.5	937.7	834.1	708.3	633.5	542.3	462.8	374.4	306.6	257.1
13°	1385.8	1255.7	1148.5	1023.1	880.1	783.9	676.3	578.2	467.5	381.0	309.3
14°	1619.9	1476.9	1358.1	1212.4	1057.4	941.3	818.9	701.3	570.8	465.6	375.6
15°	1829.1	1678.0	1553.7	1396.3	1233.4	1099.0	961.9	825.2	689.2	555.2	448.0
17.5°	2189.1	2030.2	1907.8	1742.3	1581.4	1428.2	1271.2	1093.6	925.7	759.3	632.7
20°	2461.4	2269.8	2123.3	1927.3	1743.8	1571.2	1405.3	1224.1	1058.1	878.5	734.4
21°	2530.8	2332.1	2182.5	1986.1	1788.2	1605.9	1431.4	1241.2	1069.0	887.9	744.5
22°	2589.6	2390.1	2230.0	2023.9	1821.7	1628.9	1447.3	1247.5	1068.3	881.3	737.1
23°	2634.4	2431.4	2268.6	2057.0	1847.8	1645.6	1454.7	1244.7	1058.9	867.6	720.0
24°	2676.9	2469.2	2299.4	2077.7	1863.0	1648.4	1450.8	1233.8	1043.3	847.0	697.0
25°	2704.2	2494.6	2316.1	2087.8	1863.8	1641.0	1438.0	1215.5	1019.6	818.9	667.0
26°	2723.6	2506.6	2322.0	2084.3	1857.6	1626.2	1417.7	1188.3	986.8	784.2	632.3
27°	2726.8	2505.9	2314.6	2072.2	1836.9	1598.1	1385.0	1150.1	944.8	744.1	594.5
28°	2715.1	2491.4	2295.9	2048.9	1808.1	1560.7	1342.5	1104.1	898.0	699.7	552.8
29°	2694.4	2467.3	2263.9	2010.7	1762.9	1510.4	1291.5	1050.7	845.4	649.5	506.9
30°	2661.7	2432.2	2223.0	1965.9	1711.1	1453.6	1232.3	988.4	781.1	587.9	446.9
31°	2622.3	2387.0	2167.7	1904.3	1646.0	1386.6	1163.7	905.4	698.5	510.4	375.2
32°	2571.3	2329.8	2104.2	1836.1	1573.2	1309.8	1069.8	799.4	600.4	420.4	297.6
33°	2514.8	2266.3	2028.6	1748.1	1492.1	1207.0	946.7	679.4	490.9	325.3	219.0
34°	2445.1	2190.3	1948.4	1658.5	1388.1	1073.3	788.5	550.1	377.9	232.6	148.8
35°	2364.4	2102.6	1851.0	1552.9	1248.3	919.4	641.3	437.5	270.4	155.1	108.3
36°	2270.5	2007.6	1747.7	1416.2	1088.9	758.5	499.1	320.6	185.1	118.0	93.1
37°	2169.2	1901.2	1609.4	1273.6	917.9	600.0	371.3	225.6	139.9	104.8	80.6
38°	2055.5	1787.8	1452.8	1096.7	746.1	453.5	265.3	168.3	120.4	91.2	69.0
39°	1929.7	1648.0	1273.6	910.5	580.5	326.9	202.2	138.3	104.0	78.7	59.6
40°	1790.2	1450.8	1078.4	726.6	431.7	235.7	164.8	119.6	90.8	67.4	50.6
42.5°	1325.8	962.3	593.3	342.8	203.8	146.9	109.5	84.2	59.6	40.5	26.1
45°	796.7	491.3	260.2	178.0	129.0	98.6	70.5	48.7	28.4	17.5	12.1
47.5°	356.1	205.3	145.7	114.9	83.4	58.8	34.3	20.6	12.9	9.0	6.6
50°	138.7	112.6	86.9	66.2	40.1	23.4	14.8	9.7	6.6	4.7	3.1
51°	107.1	87.3	67.8	48.7	26.9	16.4	10.9	7.4	5.1	3.5	2.3
52°	82.2	67.0	51.0	32.7	18.3	12.5	8.6	5.5	3.9	2.3	1.9
53°	60.4	51.4	35.5	23.0	13.2	9.4	6.6	4.3	2.7	1.9	1.6
54°	41.7	35.5	22.6	14.4	9.7	7.0	4.7	3.1	1.9	1.6	1.6
55°	25.3	22.2	14.8	10.5	7.0	5.1	3.5	2.3	1.6	1.2	1.2
57.5°	7.8	7.0	5.8	4.7	3.1	2.3	1.6	1.2	1.2	1.2	1.2
60°	2.7	2.7	2.3	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2



TEST NUMBER: P208877

CATALOG NUMBER: LDSQA6A10830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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	1.2	1.2	1.2	1.2	1.2	1.2	1.6
66°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6
67.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6
70°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	1.6
72.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	1.6
75°	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6
77.5°	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	1.2	1.2	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: P208877

CATALOG NUMBER: LDSQA6A10830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
2.5°	114.9	113.0	111.4	109.9	107.9	106.7	105.6	103.2	102.1	99.3	97.4
5°	139.1	134.8	130.5	126.2	122.3	119.2	116.1	111.8	108.7	104.0	100.1
7.5°	163.2	154.7	146.9	140.3	133.2	128.2	122.3	116.1	110.6	104.4	98.6
10°	190.5	174.5	161.3	149.6	139.5	131.3	123.5	114.9	108.3	100.1	93.5
11°	202.2	183.1	166.7	152.7	141.0	131.7	122.7	113.4	106.0	97.8	90.4
12°	219.3	191.3	172.2	155.8	141.8	131.3	121.6	111.4	103.6	95.1	87.7
13°	248.2	206.1	177.7	157.8	143.0	130.5	119.6	108.7	100.5	91.6	83.8
14°	296.1	232.2	189.0	161.3	143.0	129.7	117.3	105.6	96.6	87.7	79.9
15°	354.5	274.7	210.8	168.7	142.6	128.2	114.9	102.5	92.7	83.4	74.8
17.5°	504.1	397.4	304.3	223.6	163.6	125.4	106.4	91.9	81.4	70.9	63.1
20°	593.7	472.2	367.8	274.7	197.5	137.5	99.0	80.3	69.0	59.6	52.2
21°	604.6	481.9	374.8	280.9	201.4	139.1	96.6	75.2	63.9	54.5	47.9
22°	601.1	479.2	371.7	277.4	197.5	135.6	92.3	70.5	59.2	50.3	43.6
23°	584.0	464.0	356.9	263.4	187.0	127.4	86.1	65.5	54.5	46.0	39.7
24°	559.1	438.7	334.3	242.7	168.3	113.0	77.1	60.0	49.9	42.1	37.0
25°	529.5	409.9	305.8	219.3	146.1	97.0	67.8	54.5	45.2	38.2	33.9
26°	496.3	378.7	276.2	192.8	122.7	81.4	60.0	49.5	40.5	34.3	30.8
27°	460.9	344.8	245.1	164.0	102.1	69.3	54.2	44.0	36.6	31.6	28.1
28°	423.1	310.9	211.2	136.7	84.5	60.8	48.7	39.3	32.7	28.4	25.7
29°	380.6	271.2	178.4	111.8	69.7	53.8	43.2	35.1	29.6	26.1	23.8
30°	327.3	226.4	143.0	90.0	60.0	47.9	38.6	31.6	26.9	24.2	21.8
31°	266.5	176.1	108.7	71.3	52.2	42.5	34.3	28.4	24.5	22.2	19.9
32°	201.4	128.2	81.0	59.2	46.0	37.4	30.4	25.7	22.6	19.9	18.3
33°	141.8	91.6	65.5	51.4	40.1	32.7	27.3	23.4	20.6	17.9	16.4
34°	97.4	73.6	56.9	44.4	35.1	29.2	24.5	21.0	18.3	16.0	14.4
35°	82.2	64.3	49.1	38.2	30.4	25.7	21.8	18.7	16.0	14.0	12.5
36°	70.9	55.7	42.1	33.5	26.5	22.2	19.1	16.0	13.6	11.7	10.9
37°	61.2	47.9	36.2	28.8	22.6	18.7	15.6	13.2	11.7	10.1	9.4
38°	53.0	40.5	30.8	24.5	18.7	15.2	12.9	10.9	9.7	8.6	7.8
39°	45.2	33.9	24.9	19.5	14.8	12.5	10.5	9.4	8.2	7.4	6.6
40°	37.4	26.9	19.1	15.2	11.7	10.1	8.6	7.8	6.6	6.2	5.8
42.5°	17.5	12.9	10.1	8.6	7.0	6.2	5.5	4.7	4.3	3.9	3.9
45°	9.0	7.4	5.5	4.7	3.9	3.5	3.1	2.7	2.7	2.7	2.7
47.5°	4.7	3.5	2.7	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
50°	2.3	1.6	1.6	1.6	1.2	1.6	1.6	1.6	1.6	1.9	1.9
51°	1.6	1.6	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.9	1.9
52°	1.6	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.9	1.9
53°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.9	1.9
54°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.9	1.9
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.9
57.5°	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.9
60°	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.9



TEST NUMBER: P208877

CATALOG NUMBER: LDSQA6A10830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9
64°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9
66°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9
72.5°	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P208877

CATALOG NUMBER: LDSQA6A10830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
2.5°	97.4	93.9	94.3	92.3	77.1	69.0	64.7	61.6
5°	98.2	93.1	91.9	88.8	64.3	54.9	51.0	49.1
7.5°	95.5	88.8	86.5	82.2	54.5	46.0	42.9	41.3
10°	89.2	81.8	77.9	72.9	46.8	39.7	36.6	35.5
11°	86.1	78.3	74.4	69.3	44.0	37.4	34.7	33.5
12°	82.6	74.4	70.9	65.5	41.3	35.1	32.7	31.6
13°	78.7	70.5	67.0	61.9	38.6	33.1	31.2	30.0
14°	74.0	66.6	63.1	58.4	36.2	31.2	29.6	28.8
15°	69.7	62.7	58.8	54.2	34.3	29.6	28.4	27.7
17.5°	58.4	52.2	49.1	45.2	28.8	25.3	25.3	24.9
20°	47.9	42.5	40.1	37.0	24.2	22.2	22.6	22.6
21°	44.0	39.3	37.0	34.3	23.0	21.0	21.8	21.8
22°	40.1	35.8	34.3	31.6	21.4	19.9	21.0	21.0
23°	37.0	32.7	31.6	29.2	19.9	19.1	20.3	20.3
24°	33.9	30.4	28.8	26.9	18.7	17.9	19.5	19.9
25°	31.2	27.7	26.5	24.9	17.5	17.1	18.7	19.1
26°	28.4	25.3	24.5	23.0	16.4	16.4	17.9	18.7
27°	26.1	23.8	22.6	21.0	15.2	15.6	17.5	17.9
28°	24.2	21.8	20.6	19.5	14.0	14.8	16.8	17.5
29°	22.2	19.9	19.1	17.9	13.2	14.0	16.0	17.1
30°	20.3	18.3	17.5	16.4	12.5	13.2	15.6	16.8
31°	18.7	16.8	16.0	14.8	11.7	12.9	14.8	16.0
32°	16.8	15.2	14.4	13.6	10.9	12.1	14.4	15.6
33°	15.2	13.2	12.9	12.1	10.5	11.7	14.0	14.8
34°	13.2	11.7	11.3	10.9	9.7	10.9	13.2	14.4
35°	11.3	10.5	10.1	9.7	9.0	10.5	12.9	14.0
36°	10.1	9.0	9.0	8.6	8.6	10.1	12.5	13.6
37°	8.6	8.2	7.8	7.8	7.8	9.4	11.7	13.2
38°	7.4	7.0	7.0	7.0	7.4	9.0	11.3	12.9
39°	6.2	6.2	6.2	6.2	7.0	8.6	10.9	12.5
40°	5.5	5.5	5.5	5.5	6.6	8.2	10.5	12.1
42.5°	3.9	3.9	3.9	4.3	5.5	7.4	9.4	11.3
45°	3.1	3.1	3.1	3.5	5.1	6.6	8.6	10.1
47.5°	2.3	2.3	2.7	3.1	4.3	5.8	7.8	9.4
50°	1.9	2.3	2.3	2.7	3.9	5.5	6.6	8.2
51°	1.9	1.9	2.3	2.3	3.5	5.1	6.2	7.8
52°	1.9	1.9	2.3	2.3	3.5	4.7	6.2	7.0
53°	1.9	1.9	2.3	2.3	3.5	4.7	5.8	6.6
54°	1.9	1.9	2.3	2.3	3.1	4.3	5.5	6.2
55°	1.9	1.9	2.3	2.3	3.1	4.3	5.5	5.5
57.5°	1.9	1.9	1.9	2.3	2.7	3.9	4.7	4.7
60°	1.9	1.9	1.9	1.9	2.7	3.5	4.3	3.1



TEST NUMBER: P208877

CATALOG NUMBER: LDSQA6A10830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.9	1.9	1.9	1.9	2.3	3.1	3.5	2.3
64°	1.9	1.9	1.9	2.3	2.3	3.1	3.1	2.3
65°	1.9	1.9	1.9	1.9	2.3	2.7	3.1	2.3
66°	1.9	1.9	1.9	1.9	2.3	2.7	2.7	2.3
67.5°	1.9	1.9	1.9	1.9	2.3	2.7	2.7	1.9
70°	1.9	1.9	1.9	1.9	2.3	2.3	2.3	1.9
72.5°	1.9	1.9	1.9	1.9	1.9	2.3	1.9	1.6
75°	1.9	1.9	2.3	2.3	1.9	1.9	1.6	1.6
77.5°	1.9	1.9	2.3	2.3	1.9	1.9	1.6	1.2
80°	1.9	1.9	2.3	2.3	1.9	1.6	1.2	1.2
82.5°	1.9	1.9	2.3	2.3	1.9	1.6	1.2	0.8
85°	1.9	1.9	2.3	2.3	1.9	1.6	0.8	0.8
87.5°	1.9	1.9	2.3	2.3	1.9	1.2	0.8	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	1.2	1.2	1.6	1.6	1.6	1.9	1.9
62°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2





61°	1.9	1.9	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2





61°	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9
62°	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9





61°	1.9	1.9	1.9	1.9	2.7	3.5	3.9	2.7
62°	1.9	1.9	1.9	1.9	2.7	3.5	3.5	2.7



(END OF REPORT)