

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: P208903

Luminaire Tested: **LDSQA6A30840D010TE LAR35FL 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208903
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: LDSQA6A30840D010TE 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3170.1 lumens
Efficiency: N/A
Efficacy: 71.0 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

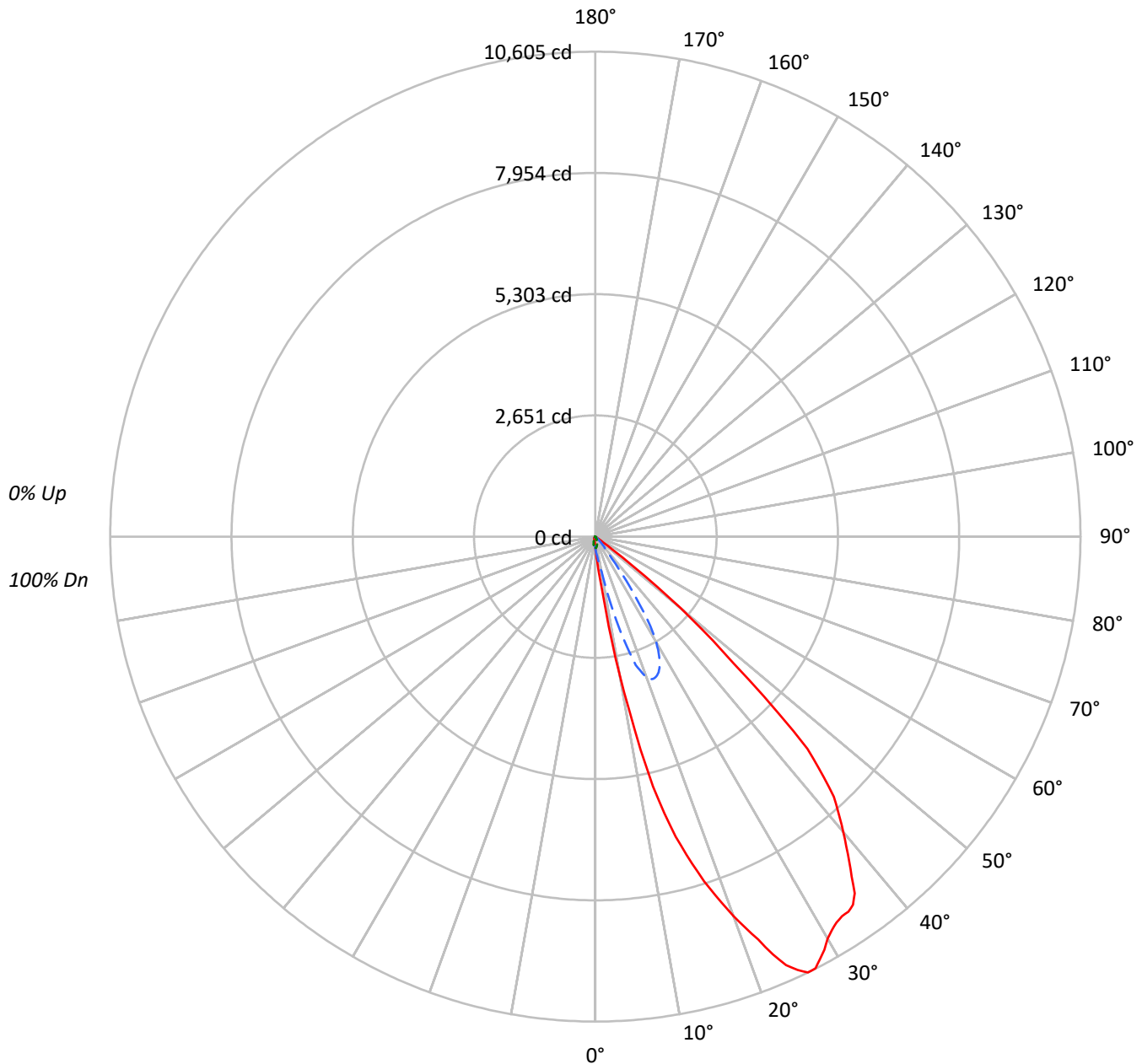
Input Watts (W): 44.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	55	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°	10837	10837	10837
5°	26559	10334	5709
10°	134609	8573	4171
15°	302812	6499	3321
20°	404434	4564	2786
25°	496901	3188	2442
30°	504631	2188	2242
35°	516309	1377	1987
40°	474124	826	1827
45°	399279	572	1662
50°	163317	489	1474
55°	7949	473	1103
60°	448	448	723
65°	102	530	642
70°	126	655	655
75°	0	1048	699
80°	0	1562	769
85°	0	3112	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.2
10°-20°	419.0	13.2
20°-30°	965.0	30.4
30°-40°	1061.2	33.5
40°-50°	622.5	19.6
50°-60°	50.7	1.6
60°-70°	5.2	0.2
70°-80°	4.4	0.1
80°-90°	3.4	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°	1422.8	44.9
0°-40°	2483.9	78.4
0°-60°	3157.2	99.6
0°-90°	3170.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3170.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	252	252	252	252	252	
5°	614	424	239	148	132	129
15°	6793	2221	146	80	74	1917
25°	10460	3272	67	46	51	4687
35°	9823	1178	26	28	38	5984
45°	6557	131	9	18	27	4541
55°	106	6	6	12	15	423
65°	1	3	5	7	6	2
75°	0	3	6	5	4	0
85°	0	3	6	4	2	0
90°	0	0	0	0	0	



TEST NUMBER: P208903

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7
2.5°	388.0	379.6	377.5	376.5	370.2	373.3	375.4	370.2	370.2	370.2	358.6
5°	614.5	591.5	588.3	583.1	567.3	567.3	569.4	555.8	550.6	531.7	514.9
7.5°	1260.5	1173.5	1214.4	1191.3	1127.3	1106.4	1102.2	1044.5	1008.8	937.5	872.5
10°	3078.9	2883.9	2943.7	2880.7	2731.8	2637.4	2637.4	2475.9	2355.3	2143.5	1929.6
11°	3846.6	3724.9	3785.7	3712.3	3537.2	3420.8	3417.7	3227.8	3080.0	2818.9	2552.5
12°	4766.3	4579.6	4540.8	4558.6	4362.5	4229.3	4213.6	4004.9	3838.2	3536.2	3232.0
13°	5609.4	5483.6	5351.4	5359.8	5154.3	5017.9	4984.4	4765.2	4589.0	4261.8	3925.2
14°	6235.5	6165.2	6050.9	6038.3	5852.7	5715.3	5674.4	5451.1	5266.5	4937.2	4583.8
15°	6793.4	6727.3	6619.3	6591.0	6412.7	6273.2	6226.0	5993.2	5804.5	5494.1	5152.2
17.5°	7899.7	7856.7	7814.8	7701.5	7566.2	7362.8	7296.7	7026.2	6780.8	6500.8	6127.5
20°	8826.8	8769.1	8681.0	8588.7	8417.8	8197.6	8151.4	7825.3	7568.3	7289.4	6853.1
21°	9165.5	9108.9	9014.5	8908.6	8714.6	8481.7	8417.8	8073.8	7803.3	7513.8	7070.2
22°	9504.2	9450.7	9354.3	9220.0	9005.0	8743.9	8648.5	8285.6	8000.4	7681.6	7235.9
23°	9923.7	9797.8	9693.0	9528.3	9275.6	8979.9	8850.9	8459.7	8159.8	7827.4	7373.3
24°	10256.1	10128.2	10005.5	9805.2	9519.9	9191.7	9027.1	8610.7	8304.5	7944.8	7486.5
25°	10459.6	10393.5	10264.5	10036.9	9727.6	9368.9	9176.0	8734.5	8400.0	8043.4	7579.9
26°	10605.3	10536.1	10425.0	10186.9	9891.2	9526.2	9291.3	8838.3	8492.2	8107.4	7641.8
27°	10600.1	10558.1	10464.8	10255.1	10006.5	9635.3	9387.8	8907.5	8540.5	8139.9	7665.9
28°	10459.6	10459.6	10417.6	10247.7	10033.8	9683.5	9422.4	8920.1	8545.7	8132.5	7650.1
29°	10331.6	10299.1	10307.5	10174.3	9991.9	9650.0	9397.2	8883.4	8506.9	8085.3	7603.0
30°	10150.2	10140.8	10177.5	10070.5	9919.5	9578.7	9316.5	8806.8	8430.4	8007.7	7527.4
31°	10036.9	10011.8	10047.4	9958.3	9792.6	9443.4	9193.8	8696.7	8329.7	7908.1	7435.2
32°	9952.0	9921.6	9963.5	9848.2	9667.8	9322.8	9056.4	8576.1	8198.6	7798.0	7317.7
33°	9900.6	9891.2	9906.9	9750.7	9518.9	9159.2	8918.0	8447.1	8072.8	7674.3	7188.7
34°	9891.2	9871.3	9844.0	9619.6	9368.9	9004.0	8761.7	8303.5	7937.5	7528.5	7031.4
35°	9823.0	9779.0	9717.1	9438.1	9157.1	8807.9	8579.3	8137.8	7767.6	7354.4	6836.4
36°	9646.8	9572.4	9505.3	9214.8	8923.2	8597.1	8382.1	7950.1	7580.9	7154.1	6613.0
37°	9308.1	9282.9	9201.1	8953.7	8687.3	8373.7	8166.1	7754.0	7372.2	6924.5	6363.4
38°	9014.5	8987.2	8911.7	8688.3	8446.1	8145.1	7938.5	7501.2	7137.3	6666.5	6090.8
39°	8716.7	8692.5	8634.9	8391.6	8180.8	7897.6	7691.0	7253.7	6881.5	6380.2	5789.8
40°	8435.6	8411.5	8359.1	8117.9	7909.2	7639.7	7429.9	6984.2	6634.0	6068.7	5444.8
42.5°	7719.4	7637.6	7570.4	7338.7	7152.0	6872.0	6645.5	6187.2	5696.4	5097.6	4471.6
45°	6557.4	6455.7	6376.0	6227.1	6023.6	5807.6	5501.4	5006.4	4498.9	3920.0	3067.4
47.5°	4094.1	3951.4	3860.2	3690.3	3461.7	3313.8	3233.1	2972.0	2625.9	2370.0	1721.9
50°	2438.2	2333.3	2256.8	2010.3	1836.2	1620.2	1414.7	1035.1	830.6	628.2	520.1
51°	1753.4	1667.4	1622.3	1418.9	1286.7	1132.6	987.9	720.4	579.9	438.3	361.8
52°	1015.1	949.1	947.0	815.9	764.5	701.6	599.8	475.1	405.8	317.8	271.6
53°	471.9	433.1	440.4	379.6	359.7	351.3	348.2	276.9	270.6	237.0	200.3
54°	211.8	194.0	181.4	175.1	169.9	172.0	176.2	159.4	153.1	148.9	136.3
55°	105.9	96.5	91.2	96.5	86.0	87.0	90.2	83.9	81.8	81.8	79.7
57.5°	23.1	22.0	22.0	23.1	22.0	22.0	23.1	23.1	23.1	22.0	22.0
60°	5.2	5.2	5.2	5.2	6.3	6.3	6.3	6.3	7.3	8.4	8.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
64°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
66°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
75°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.1
77.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
80°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.1
85°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	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



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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°	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7
2.5°	357.6	349.2	350.3	344.0	339.8	336.6	339.8	330.3	328.2	318.8	313.6
5°	510.7	490.8	484.5	469.8	453.0	444.6	441.5	423.7	414.2	396.4	385.9
7.5°	844.2	781.3	744.6	701.6	649.1	622.9	589.4	556.9	521.2	487.6	464.6
10°	1836.2	1635.9	1486.0	1331.8	1123.1	1018.3	884.0	785.5	686.9	609.3	561.0
11°	2432.9	2178.1	1975.7	1761.8	1484.9	1335.0	1138.9	977.4	806.4	687.9	610.3
12°	3078.9	2773.8	2524.2	2245.2	1906.5	1705.2	1459.8	1245.8	1007.8	825.3	692.1
13°	3730.2	3379.9	3091.5	2753.8	2369.0	2110.0	1820.5	1556.2	1258.4	1025.6	832.7
14°	4360.4	3975.6	3655.7	3263.5	2846.1	2533.6	2204.3	1887.6	1536.3	1253.2	1010.9
15°	4923.6	4516.7	4182.1	3758.5	3320.1	2958.3	2589.2	2221.1	1855.1	1494.4	1206.0
17.5°	5892.5	5464.7	5135.4	4689.7	4256.6	3844.5	3421.9	2943.7	2491.7	2043.9	1703.1
20°	6625.6	6109.6	5715.3	5187.8	4693.9	4229.3	3782.6	3295.0	2848.2	2364.8	1976.8
21°	6812.2	6277.4	5874.7	5346.2	4813.5	4322.7	3852.9	3341.1	2877.6	2389.9	2004.0
22°	6970.6	6433.7	6002.7	5447.9	4903.6	4384.5	3895.9	3357.9	2875.5	2372.1	1984.1
23°	7091.2	6544.8	6106.5	5537.0	4973.9	4429.6	3915.8	3350.5	2850.3	2335.4	1938.0
24°	7205.5	6646.6	6189.3	5592.6	5014.8	4437.0	3905.3	3321.2	2808.4	2279.8	1876.1
25°	7278.9	6714.7	6234.4	5619.9	5016.9	4417.1	3870.7	3271.9	2744.4	2204.3	1795.3
26°	7331.3	6747.2	6250.2	5610.5	5000.1	4377.2	3816.2	3198.5	2656.3	2111.0	1702.0
27°	7339.7	6745.1	6230.2	5577.9	4944.5	4301.7	3728.1	3095.7	2543.1	2003.0	1600.3
28°	7308.3	6706.3	6179.9	5515.0	4866.9	4201.0	3613.8	2972.0	2417.2	1883.4	1488.1
29°	7252.7	6641.3	6093.9	5412.3	4745.3	4065.7	3476.4	2828.3	2275.6	1748.2	1364.3
30°	7164.6	6546.9	5983.8	5291.7	4605.8	3912.6	3317.0	2660.5	2102.6	1582.5	1202.8
31°	7058.7	6425.3	5834.9	5126.0	4430.7	3732.3	3132.4	2437.1	1880.3	1373.8	1009.9
32°	6921.3	6271.1	5663.9	4942.4	4234.6	3525.7	2879.7	2151.9	1616.0	1131.5	801.2
33°	6769.2	6100.2	5460.5	4705.4	4016.5	3248.8	2548.3	1828.9	1321.3	875.7	589.4
34°	6581.5	5895.7	5244.5	4464.2	3736.5	2889.1	2122.5	1480.7	1017.2	626.1	400.6
35°	6364.5	5659.7	4982.3	4180.1	3360.0	2474.9	1726.1	1177.7	727.8	417.4	291.5
36°	6111.7	5403.9	4704.4	3812.0	2931.1	2041.8	1343.4	863.1	498.1	317.8	250.6
37°	5839.1	5117.6	4332.1	3428.1	2470.7	1615.0	999.4	607.2	376.5	282.1	217.1
38°	5532.9	4812.4	3910.5	2952.0	2008.2	1220.7	714.2	453.0	324.0	245.4	185.6
39°	5194.1	4435.9	3428.1	2450.8	1562.5	879.8	544.3	372.3	280.0	211.8	160.4
40°	4818.7	3905.3	2902.8	1955.8	1161.9	634.5	443.6	321.9	244.3	181.4	136.3
42.5°	3568.7	2590.2	1597.1	922.8	548.5	395.4	294.7	226.5	160.4	109.1	70.3
45°	2144.6	1322.4	700.5	479.2	347.1	265.3	189.8	131.1	76.6	47.2	32.5
47.5°	958.5	552.7	392.2	309.4	224.4	158.4	92.3	55.6	34.6	24.1	17.8
50°	373.3	303.1	233.9	178.3	108.0	62.9	39.8	26.2	17.8	12.6	8.4
51°	288.4	234.9	182.5	131.1	72.4	44.0	29.4	19.9	13.6	9.4	6.3
52°	221.3	180.4	137.4	88.1	49.3	33.6	23.1	14.7	10.5	6.3	5.2
53°	162.5	138.4	95.4	61.9	35.7	25.2	17.8	11.5	7.3	5.2	4.2
54°	112.2	95.4	60.8	38.8	26.2	18.9	12.6	8.4	5.2	4.2	4.2
55°	68.2	59.8	39.8	28.3	18.9	13.6	9.4	6.3	4.2	3.1	3.1
57.5°	21.0	18.9	15.7	12.6	8.4	6.3	4.2	3.1	3.1	3.1	3.1
60°	7.3	7.3	6.3	5.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1



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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°	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
64°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2
65°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2
66°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2
67.5°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2
70°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2
72.5°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2
75°	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
77.5°	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
85°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
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: P208903

CATALOG NUMBER: LDSQA6A30840D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7
2.5°	309.4	304.1	299.9	295.7	290.5	287.3	284.2	277.9	274.8	267.4	262.2
5°	374.4	362.8	351.3	339.8	329.3	320.9	312.5	301.0	292.6	280.0	269.5
7.5°	439.4	416.3	395.4	377.5	358.6	345.0	329.3	312.5	297.8	281.0	265.3
10°	512.8	469.8	434.2	402.7	375.4	353.4	332.4	309.4	291.5	269.5	251.7
11°	544.3	492.9	448.8	411.1	379.6	354.5	330.3	305.2	285.2	263.2	243.3
12°	590.4	514.9	463.5	419.5	381.7	353.4	327.2	299.9	278.9	255.9	236.0
13°	668.0	554.8	478.2	424.7	384.9	351.3	321.9	292.6	270.6	246.4	225.5
14°	797.0	625.0	508.6	434.2	384.9	349.2	315.7	284.2	260.1	236.0	215.0
15°	954.3	739.3	567.3	454.1	383.8	345.0	309.4	275.8	249.6	224.4	201.3
17.5°	1357.0	1069.7	819.0	601.9	440.4	337.7	286.3	247.5	219.2	190.9	169.9
20°	1598.2	1271.0	990.0	739.3	531.7	370.2	266.4	216.0	185.6	160.4	140.5
21°	1627.6	1297.2	1008.8	756.1	542.2	374.4	260.1	202.4	172.0	146.8	129.0
22°	1618.1	1289.9	1000.4	746.7	531.7	364.9	248.5	189.8	159.4	135.3	117.5
23°	1572.0	1249.0	960.6	708.9	503.4	342.9	231.8	176.2	146.8	123.7	107.0
24°	1504.9	1180.8	899.8	653.3	453.0	304.1	207.6	161.5	134.2	113.3	99.6
25°	1425.2	1103.2	823.2	590.4	393.3	261.1	182.5	146.8	121.6	102.8	91.2
26°	1336.0	1019.3	743.5	519.1	330.3	219.2	161.5	133.2	109.1	92.3	82.8
27°	1240.6	928.1	659.6	441.5	274.8	186.7	145.8	118.5	98.6	84.9	75.5
28°	1138.9	836.8	568.4	368.1	227.6	163.6	131.1	105.9	88.1	76.6	69.2
29°	1024.6	729.9	480.3	301.0	187.7	144.7	116.4	94.4	79.7	70.3	64.0
30°	880.9	609.3	384.9	242.2	161.5	129.0	103.8	84.9	72.4	65.0	58.7
31°	717.3	474.0	292.6	191.9	140.5	114.3	92.3	76.6	66.1	59.8	53.5
32°	542.2	345.0	218.1	159.4	123.7	100.7	81.8	69.2	60.8	53.5	49.3
33°	381.7	246.4	176.2	138.4	108.0	88.1	73.4	62.9	55.6	48.2	44.0
34°	262.2	198.2	153.1	119.5	94.4	78.7	66.1	56.6	49.3	43.0	38.8
35°	221.3	173.0	132.1	102.8	81.8	69.2	58.7	50.3	43.0	37.8	33.6
36°	190.9	150.0	113.3	90.2	71.3	59.8	51.4	43.0	36.7	31.5	29.4
37°	164.6	129.0	97.5	77.6	60.8	50.3	41.9	35.7	31.5	27.3	25.2
38°	142.6	109.1	82.8	66.1	50.3	40.9	34.6	29.4	26.2	23.1	21.0
39°	121.6	91.2	67.1	52.4	39.8	33.6	28.3	25.2	22.0	19.9	17.8
40°	100.7	72.4	51.4	40.9	31.5	27.3	23.1	21.0	17.8	16.8	15.7
42.5°	47.2	34.6	27.3	23.1	18.9	16.8	14.7	12.6	11.5	10.5	10.5
45°	24.1	19.9	14.7	12.6	10.5	9.4	8.4	7.3	7.3	7.3	7.3
47.5°	12.6	9.4	7.3	6.3	5.2	5.2	5.2	5.2	5.2	5.2	5.2
50°	6.3	4.2	4.2	4.2	3.1	4.2	4.2	4.2	4.2	5.2	5.2
51°	4.2	4.2	3.1	3.1	3.1	4.2	4.2	4.2	4.2	5.2	5.2
52°	4.2	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2	5.2	5.2
53°	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	5.2	5.2
54°	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	5.2	5.2
55°	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2	5.2
57.5°	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2	4.2	5.2
60°	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2	4.2	4.2	5.2



TEST NUMBER: P208903

CATALOG NUMBER: LDSQA6A30840D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2
64°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2
66°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2	5.2
67.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2	5.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2
72.5°	4.2	4.2	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2
75°	4.2	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
80°	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
82.5°	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
87.5°	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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: P208903

CATALOG NUMBER: LDSQA6A30840D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7
2.5°	262.2	252.7	253.8	248.5	207.6	185.6	174.1	165.7
5°	264.3	250.6	247.5	239.1	173.0	147.9	137.4	132.1
7.5°	256.9	239.1	232.8	221.3	146.8	123.7	115.4	111.2
10°	240.1	220.2	209.7	196.1	125.8	107.0	98.6	95.4
11°	231.8	210.8	200.3	186.7	118.5	100.7	93.3	90.2
12°	222.3	200.3	190.9	176.2	111.2	94.4	88.1	84.9
13°	211.8	189.8	180.4	166.7	103.8	89.1	83.9	80.7
14°	199.2	179.3	169.9	157.3	97.5	83.9	79.7	77.6
15°	187.7	168.8	158.4	145.8	92.3	79.7	76.6	74.5
17.5°	157.3	140.5	132.1	121.6	77.6	68.2	68.2	67.1
20°	129.0	114.3	108.0	99.6	65.0	59.8	60.8	60.8
21°	118.5	105.9	99.6	92.3	61.9	56.6	58.7	58.7
22°	108.0	96.5	92.3	84.9	57.7	53.5	56.6	56.6
23°	99.6	88.1	84.9	78.7	53.5	51.4	54.5	54.5
24°	91.2	81.8	77.6	72.4	50.3	48.2	52.4	53.5
25°	83.9	74.5	71.3	67.1	47.2	46.1	50.3	51.4
26°	76.6	68.2	66.1	61.9	44.0	44.0	48.2	50.3
27°	70.3	64.0	60.8	56.6	40.9	41.9	47.2	48.2
28°	65.0	58.7	55.6	52.4	37.8	39.8	45.1	47.2
29°	59.8	53.5	51.4	48.2	35.7	37.8	43.0	46.1
30°	54.5	49.3	47.2	44.0	33.6	35.7	41.9	45.1
31°	50.3	45.1	43.0	39.8	31.5	34.6	39.8	43.0
32°	45.1	40.9	38.8	36.7	29.4	32.5	38.8	41.9
33°	40.9	35.7	34.6	32.5	28.3	31.5	37.8	39.8
34°	35.7	31.5	30.4	29.4	26.2	29.4	35.7	38.8
35°	30.4	28.3	27.3	26.2	24.1	28.3	34.6	37.8
36°	27.3	24.1	24.1	23.1	23.1	27.3	33.6	36.7
37°	23.1	22.0	21.0	21.0	21.0	25.2	31.5	35.7
38°	19.9	18.9	18.9	18.9	19.9	24.1	30.4	34.6
39°	16.8	16.8	16.8	16.8	18.9	23.1	29.4	33.6
40°	14.7	14.7	14.7	14.7	17.8	22.0	28.3	32.5
42.5°	10.5	10.5	10.5	11.5	14.7	19.9	25.2	30.4
45°	8.4	8.4	8.4	9.4	13.6	17.8	23.1	27.3
47.5°	6.3	6.3	7.3	8.4	11.5	15.7	21.0	25.2
50°	5.2	6.3	6.3	7.3	10.5	14.7	17.8	22.0
51°	5.2	5.2	6.3	6.3	9.4	13.6	16.8	21.0
52°	5.2	5.2	6.3	6.3	9.4	12.6	16.8	18.9
53°	5.2	5.2	6.3	6.3	9.4	12.6	15.7	17.8
54°	5.2	5.2	6.3	6.3	8.4	11.5	14.7	16.8
55°	5.2	5.2	6.3	6.3	8.4	11.5	14.7	14.7
57.5°	5.2	5.2	5.2	6.3	7.3	10.5	12.6	12.6
60°	5.2	5.2	5.2	5.2	7.3	9.4	11.5	8.4



TEST NUMBER: P208903

CATALOG NUMBER: LDSQA6A30840D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	5.2	5.2	5.2	5.2	6.3	8.4	9.4	6.3
64°	5.2	5.2	5.2	6.3	6.3	8.4	8.4	6.3
65°	5.2	5.2	5.2	5.2	6.3	7.3	8.4	6.3
66°	5.2	5.2	5.2	5.2	6.3	7.3	7.3	6.3
67.5°	5.2	5.2	5.2	5.2	6.3	7.3	7.3	5.2
70°	5.2	5.2	5.2	5.2	6.3	6.3	6.3	5.2
72.5°	5.2	5.2	5.2	5.2	5.2	6.3	5.2	4.2
75°	5.2	5.2	6.3	6.3	5.2	5.2	4.2	4.2
77.5°	5.2	5.2	6.3	6.3	5.2	5.2	4.2	3.1
80°	5.2	5.2	6.3	6.3	5.2	4.2	3.1	3.1
82.5°	5.2	5.2	6.3	6.3	5.2	4.2	3.1	2.1
85°	5.2	5.2	6.3	6.3	5.2	4.2	2.1	2.1
87.5°	5.2	5.2	6.3	6.3	5.2	3.1	2.1	1.0
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°	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	5.2	5.2
62°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1





61°	5.2	5.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
62°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1





61°	3.1	3.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2
62°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2





61°	5.2	5.2	5.2	5.2	7.3	9.4	10.5	7.3
62°	5.2	5.2	5.2	5.2	7.3	9.4	9.4	7.3



(END OF REPORT)