

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: P208893

Luminaire Tested: **LDSQA6A20830D010TE LAR35FL 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208893
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: LDSQA6A20830D010TE 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: 2134.3 lumens
Efficiency: N/A
Efficacy: 74.1 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

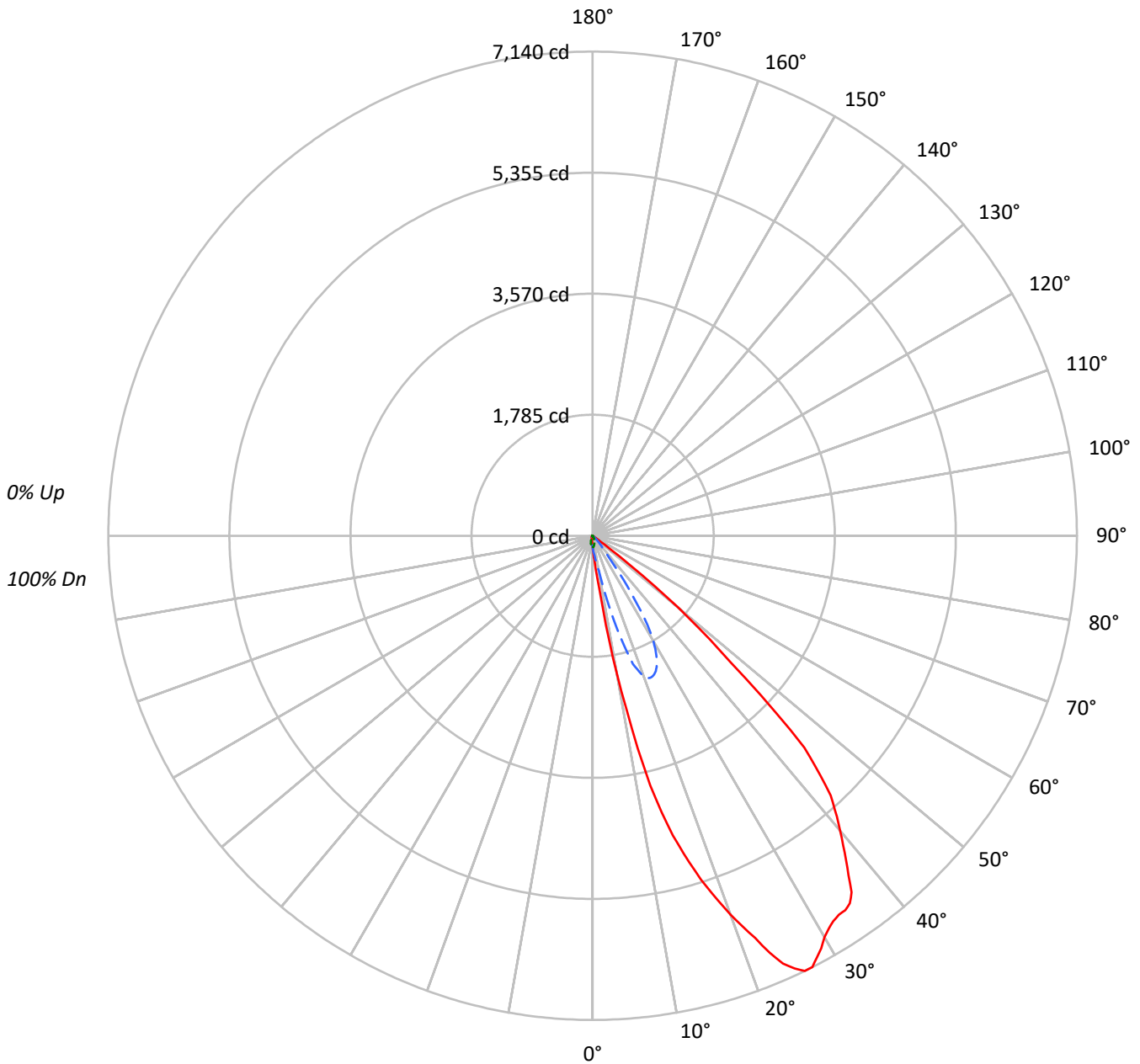
Input Watts (W): 28.81
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	55	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°	7298	7298	7298
5°	17880	6958	3847
10°	90631	5771	2811
15°	203875	4373	2233
20°	272292	3074	1879
25°	334551	2147	1644
30°	339757	1477	1511
35°	347619	930	1335
40°	319217	556	1231
45°	268823	390	1120
50°	109959	328	991
55°	5352	315	743
60°	301	301	482
65°	71	357	428
70°	88	441	441
75°	0	699	466
80°	0	1041	521
85°	0	2075	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	1.2
10°-20°	282.1	13.2
20°-30°	649.7	30.4
30°-40°	714.5	33.5
40°-50°	419.1	19.6
50°-60°	34.2	1.6
60°-70°	3.5	0.2
70°-80°	2.9	0.1
80°-90°	2.3	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°	957.9	44.9
0°-40°	1672.4	78.4
0°-60°	2125.6	99.6
0°-90°	2134.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	170	170	170	170	170	
5°	414	285	161	100	89	87
15°	4574	1495	98	54	50	1291
25°	7042	2203	45	31	35	3155
35°	6614	793	18	19	25	4029
45°	4415	88	6	12	18	3057
55°	71	4	4	8	10	285
65°	1	2	4	5	4	1
75°	0	2	4	4	3	0
85°	0	2	4	3	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°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
2.5°	261.2	255.6	254.2	253.5	249.2	251.4	252.8	249.2	249.2	249.2	241.5
5°	413.7	398.2	396.1	392.6	382.0	382.0	383.4	374.2	370.7	358.0	346.7
7.5°	848.7	790.1	817.6	802.1	759.0	744.9	742.1	703.2	679.2	631.2	587.4
10°	2073.0	1941.6	1981.9	1939.5	1839.3	1775.7	1775.7	1667.0	1585.8	1443.2	1299.1
11°	2589.8	2507.9	2548.8	2499.4	2381.5	2303.1	2301.0	2173.2	2073.7	1897.9	1718.5
12°	3209.0	3083.3	3057.2	3069.2	2937.2	2847.5	2836.9	2696.4	2584.1	2380.8	2176.0
13°	3776.7	3691.9	3603.0	3608.6	3470.2	3378.5	3355.9	3208.3	3089.7	2869.4	2642.7
14°	4198.2	4150.9	4073.9	4065.4	3940.5	3848.0	3820.4	3670.1	3545.8	3324.1	3086.2
15°	4573.8	4529.3	4456.6	4437.5	4317.5	4223.6	4191.8	4035.1	3908.0	3699.0	3468.8
17.5°	5318.7	5289.7	5261.5	5185.2	5094.2	4957.2	4912.7	4730.5	4565.3	4376.8	4125.5
20°	5942.8	5904.0	5844.7	5782.6	5667.5	5519.2	5488.1	5268.6	5095.6	4907.8	4614.0
21°	6170.9	6132.8	6069.2	5997.9	5867.3	5710.5	5667.5	5435.9	5253.7	5058.9	4760.2
22°	6398.9	6362.9	6298.0	6207.6	6062.9	5887.1	5822.8	5578.5	5386.5	5171.8	4871.8
23°	6681.4	6596.6	6526.0	6415.2	6245.0	6045.9	5959.1	5695.7	5493.8	5270.0	4964.2
24°	6905.2	6819.0	6736.4	6601.6	6409.5	6188.5	6077.7	5797.4	5591.2	5349.0	5040.5
25°	7042.2	6997.7	6910.8	6757.6	6549.3	6307.9	6177.9	5880.7	5655.5	5415.4	5103.3
26°	7140.3	7093.7	7018.9	6858.6	6659.5	6413.8	6255.6	5950.6	5717.6	5458.5	5145.0
27°	7136.8	7108.5	7045.7	6904.5	6737.1	6487.2	6320.6	5997.2	5750.1	5480.4	5161.2
28°	7042.2	7042.2	7013.9	6899.5	6755.5	6519.7	6343.9	6005.7	5753.6	5475.4	5150.6
29°	6956.0	6934.1	6939.8	6850.1	6727.3	6497.1	6326.9	5981.0	5727.5	5443.7	5118.9
30°	6833.9	6827.5	6852.2	6780.2	6678.5	6449.1	6272.6	5929.4	5675.9	5391.4	5068.0
31°	6757.6	6740.7	6764.7	6704.7	6593.1	6358.0	6190.0	5855.3	5608.2	5324.3	5005.9
32°	6700.4	6680.0	6708.2	6630.5	6509.1	6276.8	6097.5	5774.1	5519.9	5250.2	4926.8
33°	6665.8	6659.5	6670.1	6564.9	6408.8	6166.7	6004.3	5687.2	5435.2	5166.9	4840.0
34°	6659.5	6646.1	6627.7	6476.6	6307.9	6062.2	5899.1	5590.5	5344.1	5068.7	4734.1
35°	6613.6	6583.9	6542.3	6354.5	6165.2	5930.1	5776.2	5479.0	5229.7	4951.5	4602.7
36°	6495.0	6444.8	6399.6	6204.1	6007.8	5788.2	5643.5	5352.6	5104.0	4816.7	4452.4
37°	6266.9	6250.0	6194.9	6028.3	5848.9	5637.8	5498.0	5220.5	4963.5	4662.1	4284.3
38°	6069.2	6050.9	6000.0	5849.6	5686.5	5483.9	5344.8	5050.4	4805.4	4488.4	4100.7
39°	5868.7	5852.5	5813.6	5649.8	5507.9	5317.3	5178.2	4883.8	4633.1	4295.6	3898.1
40°	5679.5	5663.2	5627.9	5465.5	5325.0	5143.6	5002.4	4702.3	4466.5	4085.9	3665.8
42.5°	5197.2	5142.2	5097.0	4940.9	4815.3	4626.8	4474.2	4165.7	3835.3	3432.1	3010.6
45°	4414.9	4346.5	4292.8	4192.5	4055.6	3910.1	3703.9	3370.7	3029.0	2639.2	2065.2
47.5°	2756.4	2660.4	2599.0	2484.6	2330.7	2231.1	2176.8	2000.9	1768.0	1595.7	1159.3
50°	1641.6	1571.0	1519.4	1353.5	1236.3	1090.8	952.5	696.9	559.2	422.9	350.2
51°	1180.5	1122.6	1092.3	955.3	866.3	762.5	665.1	485.1	390.4	295.1	243.6
52°	683.5	639.0	637.6	549.3	514.7	472.3	403.9	319.8	273.2	213.9	182.9
53°	317.7	291.6	296.5	255.6	242.2	236.5	234.4	186.4	182.2	159.6	134.9
54°	142.6	130.6	122.1	117.9	114.4	115.8	118.6	107.3	103.1	100.3	91.8
55°	71.3	65.0	61.4	65.0	57.9	58.6	60.7	56.5	55.1	55.1	53.7
57.5°	15.5	14.8	14.8	15.5	14.8	14.8	15.5	15.5	15.5	14.8	14.8
60°	3.5	3.5	3.5	3.5	4.2	4.2	4.2	4.2	4.9	5.6	5.6



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
64°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
66°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4
77.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4
80°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4
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°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
2.5°	240.8	235.1	235.8	231.6	228.8	226.6	228.8	222.4	221.0	214.6	211.1
5°	343.8	330.4	326.2	316.3	305.0	299.4	297.2	285.2	278.9	266.9	259.8
7.5°	568.4	526.0	501.3	472.3	437.0	419.4	396.8	374.9	350.9	328.3	312.8
10°	1236.3	1101.4	1000.5	896.7	756.2	685.6	595.2	528.8	462.5	410.2	377.7
11°	1638.0	1466.5	1330.2	1186.2	999.8	898.8	766.8	658.0	543.0	463.2	410.9
12°	2073.0	1867.5	1699.5	1511.7	1283.6	1148.0	982.8	838.8	678.5	555.7	466.0
13°	2511.4	2275.6	2081.4	1854.1	1595.0	1420.6	1225.7	1047.8	847.3	690.5	560.6
14°	2935.8	2676.6	2461.3	2197.2	1916.2	1705.8	1484.1	1270.9	1034.4	843.7	680.6
15°	3314.9	3041.0	2815.7	2530.5	2235.4	1991.8	1743.2	1495.4	1249.0	1006.1	812.0
17.5°	3967.3	3679.2	3457.5	3157.5	2865.9	2588.4	2303.8	1981.9	1677.6	1376.1	1146.6
20°	4460.8	4113.5	3848.0	3492.8	3160.3	2847.5	2546.7	2218.4	1917.6	1592.1	1330.9
21°	4586.5	4226.4	3955.3	3599.4	3240.8	2910.3	2594.0	2249.5	1937.4	1609.1	1349.3
22°	4693.1	4331.6	4041.4	3667.9	3301.5	2952.0	2623.0	2260.8	1936.0	1597.1	1335.8
23°	4774.3	4406.5	4111.3	3728.0	3348.8	2982.4	2636.4	2255.8	1919.0	1572.4	1304.8
24°	4851.3	4475.0	4167.1	3765.4	3376.3	2987.3	2629.3	2236.1	1890.8	1535.0	1263.1
25°	4900.7	4520.8	4197.5	3783.7	3377.7	2973.9	2606.0	2202.9	1847.7	1484.1	1208.8
26°	4936.0	4542.7	4208.1	3777.4	3366.5	2947.1	2569.3	2153.5	1788.4	1421.3	1145.9
27°	4941.7	4541.3	4194.7	3755.5	3329.0	2896.2	2510.0	2084.3	1712.2	1348.6	1077.4
28°	4920.5	4515.2	4160.8	3713.1	3276.8	2828.4	2433.1	2000.9	1627.4	1268.1	1001.9
29°	4883.1	4471.4	4102.9	3643.9	3194.9	2737.4	2340.6	1904.2	1532.1	1177.0	918.6
30°	4823.7	4407.9	4028.7	3562.7	3101.0	2634.3	2233.2	1791.3	1415.6	1065.4	809.8
31°	4752.4	4326.0	3928.5	3451.2	2983.1	2512.8	2109.0	1640.9	1265.9	924.9	679.9
32°	4659.9	4222.2	3813.4	3327.6	2851.0	2373.7	1938.8	1448.8	1088.0	761.8	539.4
33°	4557.6	4107.1	3676.4	3168.1	2704.2	2187.3	1715.7	1231.4	889.6	589.6	396.8
34°	4431.2	3969.4	3531.0	3005.7	2515.7	1945.2	1429.0	996.9	684.9	421.5	269.7
35°	4285.0	3810.6	3354.4	2814.3	2262.2	1666.3	1162.2	792.9	490.0	281.0	196.3
36°	4114.9	3638.3	3167.3	2566.5	1973.4	1374.7	904.5	581.1	335.4	213.9	168.7
37°	3931.3	3445.5	2916.7	2308.1	1663.5	1087.3	672.9	408.8	253.5	189.9	146.2
38°	3725.1	3240.1	2632.9	1987.5	1352.1	821.8	480.8	305.0	218.2	165.2	125.0
39°	3497.1	2986.6	2308.1	1650.0	1052.0	592.4	366.4	250.6	188.5	142.6	108.0
40°	3244.3	2629.3	1954.3	1316.8	782.3	427.2	298.7	216.8	164.5	122.1	91.8
42.5°	2402.7	1743.9	1075.3	621.3	369.3	266.2	198.4	152.5	108.0	73.4	47.3
45°	1443.9	890.3	471.6	322.7	233.7	178.6	127.8	88.3	51.5	31.8	21.9
47.5°	645.3	372.1	264.1	208.3	151.1	106.6	62.1	37.4	23.3	16.2	12.0
50°	251.4	204.0	157.4	120.0	72.7	42.4	26.8	17.7	12.0	8.5	5.6
51°	194.2	158.2	122.9	88.3	48.7	29.7	19.8	13.4	9.2	6.4	4.2
52°	149.0	121.4	92.5	59.3	33.2	22.6	15.5	9.9	7.1	4.2	3.5
53°	109.4	93.2	64.3	41.7	24.0	16.9	12.0	7.8	4.9	3.5	2.8
54°	75.5	64.3	41.0	26.1	17.7	12.7	8.5	5.6	3.5	2.8	2.8
55°	45.9	40.2	26.8	19.1	12.7	9.2	6.4	4.2	2.8	2.1	2.1
57.5°	14.1	12.7	10.6	8.5	5.6	4.2	2.8	2.1	2.1	2.1	2.1
60°	4.9	4.9	4.2	3.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1



TEST NUMBER: P208893

CATALOG NUMBER: LDSQA6A20830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
64°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.8
65°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.8
66°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.8
67.5°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.8
70°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.8	2.8
72.5°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.8	2.8
75°	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.8	2.8	2.8
87.5°	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8
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: P208893

CATALOG NUMBER: LDSQA6A20830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
2.5°	208.3	204.8	201.9	199.1	195.6	193.5	191.3	187.1	185.0	180.0	176.5
5°	252.1	244.3	236.5	228.8	221.7	216.1	210.4	202.6	197.0	188.5	181.5
7.5°	295.8	280.3	266.2	254.2	241.5	232.3	221.7	210.4	200.5	189.2	178.6
10°	345.3	316.3	292.3	271.1	252.8	237.9	223.8	208.3	196.3	181.5	169.5
11°	366.4	331.8	302.2	276.8	255.6	238.6	222.4	205.5	192.0	177.2	163.8
12°	397.5	346.7	312.1	282.4	257.0	237.9	220.3	201.9	187.8	172.3	158.9
13°	449.8	373.5	322.0	286.0	259.1	236.5	216.8	197.0	182.2	165.9	151.8
14°	536.6	420.8	342.4	292.3	259.1	235.1	212.5	191.3	175.1	158.9	144.7
15°	642.5	497.8	382.0	305.7	258.4	232.3	208.3	185.7	168.0	151.1	135.6
17.5°	913.6	720.2	551.4	405.3	296.5	227.3	192.8	166.6	147.6	128.5	114.4
20°	1076.0	855.7	666.5	497.8	358.0	249.2	179.3	145.4	125.0	108.0	94.6
21°	1095.8	873.4	679.2	509.1	365.0	252.1	175.1	136.3	115.8	98.8	86.8
22°	1089.4	868.4	673.6	502.7	358.0	245.7	167.3	127.8	107.3	91.1	79.1
23°	1058.4	840.9	646.7	477.3	338.9	230.9	156.0	118.6	98.8	83.3	72.0
24°	1013.2	795.0	605.8	439.9	305.0	204.8	139.8	108.7	90.4	76.3	67.1
25°	959.5	742.8	554.3	397.5	264.8	175.8	122.9	98.8	81.9	69.2	61.4
26°	899.5	686.3	500.6	349.5	222.4	147.6	108.7	89.7	73.4	62.1	55.8
27°	835.3	624.9	444.1	297.2	185.0	125.7	98.1	79.8	66.4	57.2	50.8
28°	766.8	563.4	382.7	247.8	153.2	110.1	88.3	71.3	59.3	51.5	46.6
29°	689.8	491.4	323.4	202.6	126.4	97.4	78.4	63.5	53.7	47.3	43.1
30°	593.1	410.2	259.1	163.1	108.7	86.8	69.9	57.2	48.7	43.8	39.5
31°	482.9	319.1	197.0	129.2	94.6	77.0	62.1	51.5	44.5	40.2	36.0
32°	365.0	232.3	146.9	107.3	83.3	67.8	55.1	46.6	41.0	36.0	33.2
33°	257.0	165.9	118.6	93.2	72.7	59.3	49.4	42.4	37.4	32.5	29.7
34°	176.5	133.4	103.1	80.5	63.5	53.0	44.5	38.1	33.2	28.9	26.1
35°	149.0	116.5	89.0	69.2	55.1	46.6	39.5	33.9	28.9	25.4	22.6
36°	128.5	101.0	76.3	60.7	48.0	40.2	34.6	28.9	24.7	21.2	19.8
37°	110.9	86.8	65.7	52.2	41.0	33.9	28.2	24.0	21.2	18.4	16.9
38°	96.0	73.4	55.8	44.5	33.9	27.5	23.3	19.8	17.7	15.5	14.1
39°	81.9	61.4	45.2	35.3	26.8	22.6	19.1	16.9	14.8	13.4	12.0
40°	67.8	48.7	34.6	27.5	21.2	18.4	15.5	14.1	12.0	11.3	10.6
42.5°	31.8	23.3	18.4	15.5	12.7	11.3	9.9	8.5	7.8	7.1	7.1
45°	16.2	13.4	9.9	8.5	7.1	6.4	5.6	4.9	4.9	4.9	4.9
47.5°	8.5	6.4	4.9	4.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5
50°	4.2	2.8	2.8	2.8	2.1	2.8	2.8	2.8	2.8	3.5	3.5
51°	2.8	2.8	2.1	2.1	2.1	2.8	2.8	2.8	2.8	3.5	3.5
52°	2.8	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	3.5	3.5
53°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	3.5	3.5
54°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	3.5	3.5
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	3.5
57.5°	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	3.5
60°	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8	3.5



TEST NUMBER: P208893

CATALOG NUMBER: LDSQA6A20830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5
64°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5
66°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5	3.5
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5	3.5
70°	2.8	2.8	2.8	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5
72.5°	2.8	2.8	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.8	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P208893

CATALOG NUMBER: LDSQA6A20830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
2.5°	176.5	170.2	170.9	167.3	139.8	125.0	117.2	111.6
5°	177.9	168.7	166.6	161.0	116.5	99.6	92.5	89.0
7.5°	173.0	161.0	156.7	149.0	98.8	83.3	77.7	74.8
10°	161.7	148.3	141.2	132.0	84.7	72.0	66.4	64.3
11°	156.0	141.9	134.9	125.7	79.8	67.8	62.8	60.7
12°	149.7	134.9	128.5	118.6	74.8	63.5	59.3	57.2
13°	142.6	127.8	121.4	112.3	69.9	60.0	56.5	54.4
14°	134.1	120.7	114.4	105.9	65.7	56.5	53.7	52.2
15°	126.4	113.7	106.6	98.1	62.1	53.7	51.5	50.1
17.5°	105.9	94.6	89.0	81.9	52.2	45.9	45.9	45.2
20°	86.8	77.0	72.7	67.1	43.8	40.2	41.0	41.0
21°	79.8	71.3	67.1	62.1	41.7	38.1	39.5	39.5
22°	72.7	65.0	62.1	57.2	38.8	36.0	38.1	38.1
23°	67.1	59.3	57.2	53.0	36.0	34.6	36.7	36.7
24°	61.4	55.1	52.2	48.7	33.9	32.5	35.3	36.0
25°	56.5	50.1	48.0	45.2	31.8	31.1	33.9	34.6
26°	51.5	45.9	44.5	41.7	29.7	29.7	32.5	33.9
27°	47.3	43.1	41.0	38.1	27.5	28.2	31.8	32.5
28°	43.8	39.5	37.4	35.3	25.4	26.8	30.4	31.8
29°	40.2	36.0	34.6	32.5	24.0	25.4	28.9	31.1
30°	36.7	33.2	31.8	29.7	22.6	24.0	28.2	30.4
31°	33.9	30.4	28.9	26.8	21.2	23.3	26.8	28.9
32°	30.4	27.5	26.1	24.7	19.8	21.9	26.1	28.2
33°	27.5	24.0	23.3	21.9	19.1	21.2	25.4	26.8
34°	24.0	21.2	20.5	19.8	17.7	19.8	24.0	26.1
35°	20.5	19.1	18.4	17.7	16.2	19.1	23.3	25.4
36°	18.4	16.2	16.2	15.5	15.5	18.4	22.6	24.7
37°	15.5	14.8	14.1	14.1	14.1	16.9	21.2	24.0
38°	13.4	12.7	12.7	12.7	13.4	16.2	20.5	23.3
39°	11.3	11.3	11.3	11.3	12.7	15.5	19.8	22.6
40°	9.9	9.9	9.9	9.9	12.0	14.8	19.1	21.9
42.5°	7.1	7.1	7.1	7.8	9.9	13.4	16.9	20.5
45°	5.6	5.6	5.6	6.4	9.2	12.0	15.5	18.4
47.5°	4.2	4.2	4.9	5.6	7.8	10.6	14.1	16.9
50°	3.5	4.2	4.2	4.9	7.1	9.9	12.0	14.8
51°	3.5	3.5	4.2	4.2	6.4	9.2	11.3	14.1
52°	3.5	3.5	4.2	4.2	6.4	8.5	11.3	12.7
53°	3.5	3.5	4.2	4.2	6.4	8.5	10.6	12.0
54°	3.5	3.5	4.2	4.2	5.6	7.8	9.9	11.3
55°	3.5	3.5	4.2	4.2	5.6	7.8	9.9	9.9
57.5°	3.5	3.5	3.5	4.2	4.9	7.1	8.5	8.5
60°	3.5	3.5	3.5	3.5	4.9	6.4	7.8	5.6



TEST NUMBER: P208893

CATALOG NUMBER: LDSQA6A20830D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	3.5	3.5	3.5	3.5	4.2	5.6	6.4	4.2
64°	3.5	3.5	3.5	4.2	4.2	5.6	5.6	4.2
65°	3.5	3.5	3.5	3.5	4.2	4.9	5.6	4.2
66°	3.5	3.5	3.5	3.5	4.2	4.9	4.9	4.2
67.5°	3.5	3.5	3.5	3.5	4.2	4.9	4.9	3.5
70°	3.5	3.5	3.5	3.5	4.2	4.2	4.2	3.5
72.5°	3.5	3.5	3.5	3.5	3.5	4.2	3.5	2.8
75°	3.5	3.5	4.2	4.2	3.5	3.5	2.8	2.8
77.5°	3.5	3.5	4.2	4.2	3.5	3.5	2.8	2.1
80°	3.5	3.5	4.2	4.2	3.5	2.8	2.1	2.1
82.5°	3.5	3.5	4.2	4.2	3.5	2.8	2.1	1.4
85°	3.5	3.5	4.2	4.2	3.5	2.8	1.4	1.4
87.5°	3.5	3.5	4.2	4.2	3.5	2.1	1.4	0.7
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°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	3.5	3.5
62°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1





61°	3.5	3.5	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1





61°	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5
62°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5





61°	3.5	3.5	3.5	3.5	4.9	6.4	7.1	4.9
62°	3.5	3.5	3.5	3.5	4.9	6.4	6.4	4.9



(END OF REPORT)