

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: P208905

Luminaire Tested: **LDSQA6A30930D010TE LAR35FL 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208905
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: LDSQA6A30930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2443.3 lumens
Efficiency: N/A
Efficacy: 54.8 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

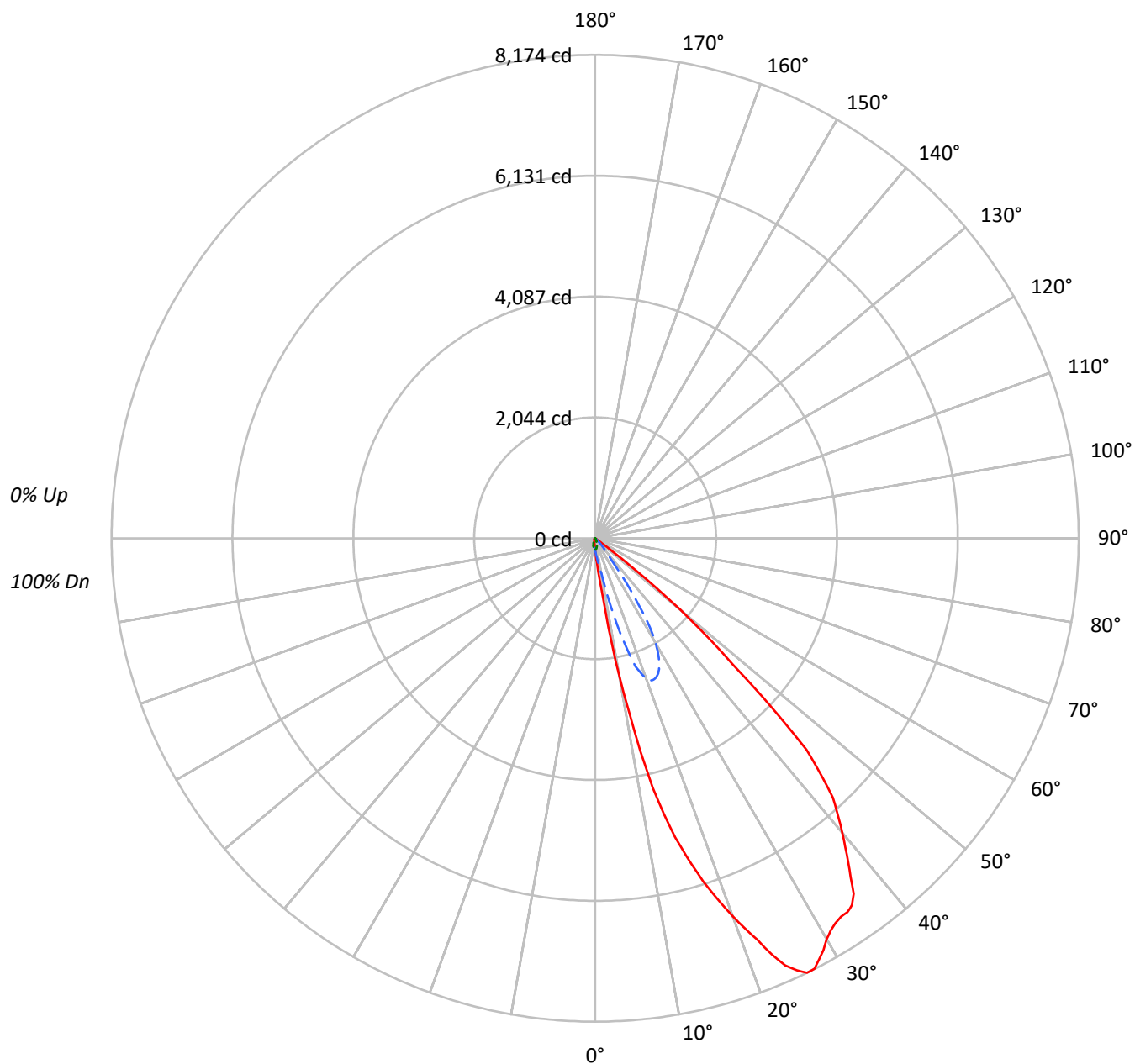
Input Watts (W): 44.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	8353	8353	8353
5°	20469	7965	4400
10°	103752	6606	3218
15°	233392	5006	2559
20°	311715	3519	2149
25°	382984	2456	1881
30°	388941	1685	1730
35°	397947	1062	1530
40°	365429	635	1411
45°	307744	444	1279
50°	125874	382	1139
55°	6125	360	848
60°	344	344	560
65°	82	408	489
70°	101	504	504
75°	0	799	532
80°	0	1190	595
85°	0	2371	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	1.2
10°-20°	323.0	13.2
20°-30°	743.8	30.4
30°-40°	817.9	33.5
40°-50°	479.8	19.6
50°-60°	39.1	1.6
60°-70°	4.0	0.2
70°-80°	3.4	0.1
80°-90°	2.6	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°	1096.6	44.9
0°-40°	1914.5	78.4
0°-60°	2433.4	99.6
0°-90°	2443.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	194	194	194	194	194	
5°	474	326	184	114	102	100
15°	5236	1712	112	61	57	1478
25°	8062	2522	52	36	40	3612
35°	7571	908	20	22	29	4612
45°	5054	101	7	14	21	3500
55°	82	5	5	9	11	326
65°	1	2	4	6	5	1
75°	0	2	5	4	3	0
85°	0	2	5	3	2	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°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0
2.5°	299.1	292.6	291.0	290.2	285.3	287.7	289.4	285.3	285.3	285.3	276.4
5°	473.6	455.9	453.4	449.4	437.3	437.3	438.9	428.4	424.3	409.8	396.9
7.5°	971.5	904.5	936.0	918.2	868.9	852.7	849.5	805.0	777.6	722.6	672.5
10°	2373.1	2222.7	2268.8	2220.3	2105.5	2032.8	2032.8	1908.3	1815.4	1652.1	1487.2
11°	2964.7	2871.0	2917.9	2861.3	2726.3	2636.6	2634.2	2487.9	2373.9	2172.6	1967.3
12°	3673.6	3529.7	3499.8	3513.5	3362.4	3259.8	3247.6	3086.8	2958.3	2725.5	2491.1
13°	4323.4	4226.4	4124.6	4131.1	3972.6	3867.6	3841.7	3672.8	3537.0	3284.8	3025.4
14°	4806.0	4751.8	4663.7	4654.0	4511.0	4405.1	4373.5	4201.4	4059.1	3805.3	3532.9
15°	5236.0	5185.0	5101.8	5080.0	4942.6	4835.1	4798.7	4619.3	4473.8	4234.5	3971.0
17.5°	6088.7	6055.6	6023.2	5935.9	5831.7	5674.9	5623.9	5415.4	5226.3	5010.5	4722.7
20°	6803.2	6758.8	6690.9	6619.7	6488.0	6318.2	6282.7	6031.3	5833.3	5618.3	5282.0
21°	7064.3	7020.6	6947.9	6866.3	6716.7	6537.3	6488.0	6222.9	6014.3	5791.3	5449.4
22°	7325.3	7284.1	7209.8	7106.3	6940.6	6739.4	6665.8	6386.1	6166.3	5920.6	5577.1
23°	7648.7	7551.7	7470.8	7343.9	7149.1	6921.2	6821.8	6520.3	6289.1	6032.9	5682.9
24°	7904.9	7806.3	7711.7	7557.3	7337.5	7084.5	6957.6	6636.7	6400.7	6123.5	5770.2
25°	8061.7	8010.8	7911.3	7735.9	7497.5	7221.1	7072.4	6732.1	6474.2	6199.4	5842.2
26°	8174.0	8120.7	8035.0	7851.5	7623.6	7342.3	7161.3	6812.1	6545.4	6248.7	5889.9
27°	8170.0	8137.7	8065.7	7904.1	7712.5	7426.4	7235.6	6865.4	6582.5	6273.8	5908.5
28°	8061.7	8061.7	8029.4	7898.4	7733.5	7463.6	7262.3	6875.1	6586.6	6268.1	5896.3
29°	7963.1	7938.0	7944.5	7841.8	7701.2	7437.7	7242.9	6846.9	6556.7	6231.8	5860.0
30°	7823.2	7816.0	7844.3	7761.8	7645.4	7382.7	7180.7	6787.8	6497.7	6171.9	5801.8
31°	7735.9	7716.6	7744.0	7675.3	7547.6	7278.5	7086.1	6703.0	6420.1	6095.2	5730.6
32°	7670.5	7647.0	7679.4	7590.5	7451.4	7185.5	6980.2	6610.0	6319.1	6010.3	5640.1
33°	7630.9	7623.6	7635.7	7515.3	7336.7	7059.4	6873.5	6510.6	6222.1	5914.9	5540.7
34°	7623.6	7608.2	7587.2	7414.3	7221.1	6939.8	6753.1	6399.9	6117.8	5802.6	5419.4
35°	7571.1	7537.1	7489.4	7274.4	7057.8	6788.7	6612.5	6272.2	5986.9	5668.4	5269.1
36°	7435.3	7377.9	7326.2	7102.3	6877.6	6626.2	6460.5	6127.5	5843.0	5514.0	5096.9
37°	7174.2	7154.8	7091.8	6901.0	6695.7	6454.0	6294.0	5976.3	5682.1	5337.0	4904.6
38°	6947.9	6926.9	6868.7	6696.5	6509.8	6277.8	6118.6	5781.6	5501.1	5138.2	4694.4
39°	6718.3	6699.7	6655.3	6467.8	6305.3	6087.1	5927.8	5590.8	5303.9	4917.5	4462.5
40°	6501.7	6483.1	6442.7	6256.8	6096.0	5888.2	5726.6	5383.1	5113.1	4677.5	4196.5
42.5°	5949.7	5886.6	5834.9	5656.3	5512.4	5296.6	5122.0	4768.8	4390.5	3929.0	3446.5
45°	5054.1	4975.7	4914.3	4799.5	4642.7	4476.2	4240.2	3858.7	3467.5	3021.3	2364.2
47.5°	3155.5	3045.6	2975.2	2844.3	2668.1	2554.1	2491.9	2290.6	2023.9	1826.7	1327.2
50°	1879.2	1798.4	1739.4	1549.5	1415.3	1248.8	1090.4	797.8	640.1	484.2	400.9
51°	1351.4	1285.1	1250.4	1093.6	991.7	872.9	761.4	555.3	447.0	337.9	278.9
52°	782.4	731.5	729.9	628.8	589.2	540.7	462.3	366.1	312.8	244.9	209.3
53°	363.7	333.8	339.5	292.6	277.2	270.8	268.3	213.4	208.5	182.7	154.4
54°	163.3	149.5	139.8	135.0	130.9	132.6	135.8	122.9	118.0	114.8	105.1
55°	81.6	74.4	70.3	74.4	66.3	67.1	69.5	64.7	63.0	63.0	61.4
57.5°	17.8	17.0	17.0	17.8	17.0	17.0	17.8	17.8	17.8	17.0	17.0
60°	4.0	4.0	4.0	4.0	4.8	4.8	4.8	4.8	5.7	6.5	6.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.6
77.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	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



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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°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0
2.5°	275.6	269.2	270.0	265.1	261.9	259.5	261.9	254.6	253.0	245.7	241.7
5°	393.6	378.3	373.4	362.1	349.2	342.7	340.3	326.5	319.3	305.5	297.4
7.5°	650.7	602.2	573.9	540.7	500.3	480.1	454.2	429.2	401.7	375.8	358.1
10°	1415.3	1260.9	1145.3	1026.5	865.7	784.8	681.4	605.4	529.4	469.6	432.4
11°	1875.2	1678.8	1522.8	1357.9	1144.5	1028.9	877.8	753.3	621.6	530.2	470.4
12°	2373.1	2137.9	1945.5	1730.5	1469.4	1314.2	1125.1	960.2	776.7	636.1	533.5
13°	2875.0	2605.1	2382.8	2122.5	1825.9	1626.2	1403.2	1199.5	969.9	790.5	641.8
14°	3360.8	3064.2	2817.6	2515.3	2193.6	1952.8	1699.0	1454.9	1184.1	965.9	779.2
15°	3794.8	3481.2	3223.4	2896.8	2559.0	2280.1	1995.6	1711.9	1429.8	1151.8	929.5
17.5°	4541.7	4211.9	3958.1	3614.6	3280.8	2963.1	2637.4	2268.8	1920.4	1575.3	1312.6
20°	5106.6	4709.0	4405.1	3998.5	3617.8	3259.8	2915.4	2539.6	2195.3	1822.6	1523.6
21°	5250.5	4838.3	4527.9	4120.6	3710.0	3331.7	2969.6	2575.1	2217.9	1842.0	1544.6
22°	5372.6	4958.7	4626.5	4199.0	3779.5	3379.4	3002.7	2588.1	2216.3	1828.3	1529.2
23°	5465.5	5044.4	4706.6	4267.7	3833.6	3414.1	3018.1	2582.4	2196.9	1800.0	1493.7
24°	5553.6	5122.8	4770.4	4310.5	3865.1	3419.8	3010.0	2559.8	2164.5	1757.2	1446.0
25°	5610.2	5175.4	4805.2	4331.5	3866.8	3404.4	2983.3	2521.8	2115.2	1699.0	1383.8
26°	5650.6	5200.4	4817.3	4324.2	3853.8	3373.7	2941.3	2465.2	2047.3	1627.0	1311.8
27°	5657.1	5198.8	4801.9	4299.2	3811.0	3315.5	2873.4	2386.0	1960.1	1543.8	1233.4
28°	5632.8	5168.9	4763.1	4250.7	3751.2	3237.9	2785.3	2290.6	1863.1	1451.7	1146.9
29°	5590.0	5118.8	4696.9	4171.5	3657.4	3133.7	2679.4	2179.9	1753.9	1347.4	1051.6
30°	5522.1	5046.0	4612.0	4078.5	3549.9	3015.7	2556.6	2050.6	1620.6	1219.7	927.1
31°	5440.5	4952.3	4497.2	3950.8	3414.9	2876.6	2414.3	1878.4	1449.2	1058.8	778.4
32°	5334.6	4833.5	4365.5	3809.4	3263.8	2717.4	2219.5	1658.6	1245.5	872.1	617.5
33°	5217.4	4701.7	4208.7	3626.7	3095.7	2504.0	1964.1	1409.6	1018.4	674.9	454.2
34°	5072.7	4544.1	4042.2	3440.8	2879.9	2226.8	1635.9	1141.3	784.0	482.5	308.8
35°	4905.4	4362.2	3840.1	3221.8	2589.7	1907.5	1330.4	907.7	560.9	321.7	224.7
36°	4710.6	4165.0	3625.9	2938.1	2259.1	1573.7	1035.4	665.2	383.9	244.9	193.2
37°	4500.4	3944.4	3339.0	2642.2	1904.3	1244.7	770.3	468.0	290.2	217.4	167.3
38°	4264.4	3709.1	3014.0	2275.3	1547.8	940.8	550.4	349.2	249.8	189.1	143.1
39°	4003.4	3419.0	2642.2	1888.9	1204.3	678.1	419.5	286.9	215.8	163.3	123.7
40°	3714.0	3010.0	2237.3	1507.4	895.6	489.0	341.9	248.1	188.3	139.8	105.1
42.5°	2750.5	1996.4	1231.0	711.3	422.7	304.7	227.1	174.6	123.7	84.1	54.2
45°	1652.9	1019.2	539.9	369.4	267.5	204.5	146.3	101.0	59.0	36.4	25.1
47.5°	738.8	426.0	302.3	238.4	173.0	122.0	71.1	42.8	26.7	18.6	13.7
50°	287.7	233.6	180.2	137.4	83.3	48.5	30.7	20.2	13.7	9.7	6.5
51°	222.3	181.1	140.6	101.0	55.8	33.9	22.6	15.4	10.5	7.3	4.8
52°	170.5	139.0	105.9	67.9	38.0	25.9	17.8	11.3	8.1	4.8	4.0
53°	125.3	106.7	73.6	47.7	27.5	19.4	13.7	8.9	5.7	4.0	3.2
54°	86.5	73.6	46.9	29.9	20.2	14.5	9.7	6.5	4.0	3.2	3.2
55°	52.5	46.1	30.7	21.8	14.5	10.5	7.3	4.8	3.2	2.4	2.4
57.5°	16.2	14.5	12.1	9.7	6.5	4.8	3.2	2.4	2.4	2.4	2.4
60°	5.7	5.7	4.8	4.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P208905

CATALOG NUMBER: LDSQA6A30930D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
64°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.2
65°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.2
66°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.2
67.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.2
70°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2	3.2
72.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2	3.2
75°	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2
77.5°	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2
80°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2	3.2
87.5°	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	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: P208905

CATALOG NUMBER: LDSQA6A30930D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0
2.5°	238.4	234.4	231.2	227.9	223.9	221.5	219.0	214.2	211.8	206.1	202.1
5°	288.6	279.7	270.8	261.9	253.8	247.3	240.9	232.0	225.5	215.8	207.7
7.5°	338.7	320.9	304.7	291.0	276.4	265.9	253.8	240.9	229.5	216.6	204.5
10°	395.2	362.1	334.6	310.4	289.4	272.4	256.2	238.4	224.7	207.7	194.0
11°	419.5	379.9	345.9	316.8	292.6	273.2	254.6	235.2	219.8	202.9	187.5
12°	455.1	396.9	357.3	323.3	294.2	272.4	252.2	231.2	215.0	197.2	181.9
13°	514.9	427.6	368.6	327.3	296.6	270.8	248.1	225.5	208.5	189.9	173.8
14°	614.3	481.7	392.0	334.6	296.6	269.2	243.3	219.0	200.5	181.9	165.7
15°	735.5	569.8	437.3	350.0	295.8	265.9	238.4	212.6	192.4	173.0	155.2
17.5°	1045.9	824.4	631.3	463.9	339.5	260.3	220.7	190.8	168.9	147.1	130.9
20°	1231.8	979.6	763.0	569.8	409.8	285.3	205.3	166.5	143.1	123.7	108.3
21°	1254.4	999.8	777.6	582.8	417.9	288.6	200.5	156.0	132.6	113.2	99.4
22°	1247.2	994.2	771.1	575.5	409.8	281.3	191.6	146.3	122.9	104.3	90.5
23°	1211.6	962.6	740.4	546.4	388.0	264.3	178.6	135.8	113.2	95.4	82.4
24°	1159.9	910.1	693.5	503.6	349.2	234.4	160.0	124.5	103.5	87.3	76.8
25°	1098.4	850.3	634.5	455.1	303.1	201.3	140.6	113.2	93.8	79.2	70.3
26°	1029.7	785.6	573.1	400.1	254.6	168.9	124.5	102.7	84.1	71.1	63.9
27°	956.2	715.3	508.4	340.3	211.8	143.9	112.3	91.3	76.0	65.5	58.2
28°	877.8	645.0	438.1	283.7	175.4	126.1	101.0	81.6	67.9	59.0	53.3
29°	789.7	562.6	370.2	232.0	144.7	111.5	89.7	72.7	61.4	54.2	49.3
30°	678.9	469.6	296.6	186.7	124.5	99.4	80.0	65.5	55.8	50.1	45.3
31°	552.9	365.3	225.5	147.9	108.3	88.1	71.1	59.0	50.9	46.1	41.2
32°	417.9	265.9	168.1	122.9	95.4	77.6	63.0	53.3	46.9	41.2	38.0
33°	294.2	189.9	135.8	106.7	83.3	67.9	56.6	48.5	42.8	37.2	33.9
34°	202.1	152.8	118.0	92.1	72.7	60.6	50.9	43.6	38.0	33.1	29.9
35°	170.5	133.4	101.8	79.2	63.0	53.3	45.3	38.8	33.1	29.1	25.9
36°	147.1	115.6	87.3	69.5	55.0	46.1	39.6	33.1	28.3	24.2	22.6
37°	126.9	99.4	75.2	59.8	46.9	38.8	32.3	27.5	24.2	21.0	19.4
38°	109.9	84.1	63.9	50.9	38.8	31.5	26.7	22.6	20.2	17.8	16.2
39°	93.8	70.3	51.7	40.4	30.7	25.9	21.8	19.4	17.0	15.4	13.7
40°	77.6	55.8	39.6	31.5	24.2	21.0	17.8	16.2	13.7	12.9	12.1
42.5°	36.4	26.7	21.0	17.8	14.5	12.9	11.3	9.7	8.9	8.1	8.1
45°	18.6	15.4	11.3	9.7	8.1	7.3	6.5	5.7	5.7	5.7	5.7
47.5°	9.7	7.3	5.7	4.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0
50°	4.8	3.2	3.2	3.2	2.4	3.2	3.2	3.2	3.2	4.0	4.0
51°	3.2	3.2	2.4	2.4	2.4	3.2	3.2	3.2	3.2	4.0	4.0
52°	3.2	2.4	2.4	2.4	2.4	3.2	3.2	3.2	3.2	4.0	4.0
53°	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2	4.0	4.0
54°	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2	4.0	4.0
55°	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2	3.2	4.0
57.5°	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2	3.2	3.2	4.0
60°	2.4	2.4	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2	4.0



TEST NUMBER: P208905

CATALOG NUMBER: LDSQA6A30930D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0
64°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0
66°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.0
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.0
70°	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.0
72.5°	3.2	3.2	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0
75°	3.2	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P208905

CATALOG NUMBER: LDSQA6A30930D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0
2.5°	202.1	194.8	195.6	191.6	160.0	143.1	134.2	127.7
5°	203.7	193.2	190.8	184.3	133.4	114.0	105.9	101.8
7.5°	198.0	184.3	179.4	170.5	113.2	95.4	88.9	85.7
10°	185.1	169.7	161.7	151.1	97.0	82.4	76.0	73.6
11°	178.6	162.5	154.4	143.9	91.3	77.6	71.9	69.5
12°	171.4	154.4	147.1	135.8	85.7	72.7	67.9	65.5
13°	163.3	146.3	139.0	128.5	80.0	68.7	64.7	62.2
14°	153.6	138.2	130.9	121.2	75.2	64.7	61.4	59.8
15°	144.7	130.1	122.0	112.3	71.1	61.4	59.0	57.4
17.5°	121.2	108.3	101.8	93.8	59.8	52.5	52.5	51.7
20°	99.4	88.1	83.3	76.8	50.1	46.1	46.9	46.9
21°	91.3	81.6	76.8	71.1	47.7	43.6	45.3	45.3
22°	83.3	74.4	71.1	65.5	44.5	41.2	43.6	43.6
23°	76.8	67.9	65.5	60.6	41.2	39.6	42.0	42.0
24°	70.3	63.0	59.8	55.8	38.8	37.2	40.4	41.2
25°	64.7	57.4	55.0	51.7	36.4	35.6	38.8	39.6
26°	59.0	52.5	50.9	47.7	33.9	33.9	37.2	38.8
27°	54.2	49.3	46.9	43.6	31.5	32.3	36.4	37.2
28°	50.1	45.3	42.8	40.4	29.1	30.7	34.8	36.4
29°	46.1	41.2	39.6	37.2	27.5	29.1	33.1	35.6
30°	42.0	38.0	36.4	33.9	25.9	27.5	32.3	34.8
31°	38.8	34.8	33.1	30.7	24.2	26.7	30.7	33.1
32°	34.8	31.5	29.9	28.3	22.6	25.1	29.9	32.3
33°	31.5	27.5	26.7	25.1	21.8	24.2	29.1	30.7
34°	27.5	24.2	23.4	22.6	20.2	22.6	27.5	29.9
35°	23.4	21.8	21.0	20.2	18.6	21.8	26.7	29.1
36°	21.0	18.6	18.6	17.8	17.8	21.0	25.9	28.3
37°	17.8	17.0	16.2	16.2	16.2	19.4	24.2	27.5
38°	15.4	14.5	14.5	14.5	15.4	18.6	23.4	26.7
39°	12.9	12.9	12.9	12.9	14.5	17.8	22.6	25.9
40°	11.3	11.3	11.3	11.3	13.7	17.0	21.8	25.1
42.5°	8.1	8.1	8.1	8.9	11.3	15.4	19.4	23.4
45°	6.5	6.5	6.5	7.3	10.5	13.7	17.8	21.0
47.5°	4.8	4.8	5.7	6.5	8.9	12.1	16.2	19.4
50°	4.0	4.8	4.8	5.7	8.1	11.3	13.7	17.0
51°	4.0	4.0	4.8	4.8	7.3	10.5	12.9	16.2
52°	4.0	4.0	4.8	4.8	7.3	9.7	12.9	14.5
53°	4.0	4.0	4.8	4.8	7.3	9.7	12.1	13.7
54°	4.0	4.0	4.8	4.8	6.5	8.9	11.3	12.9
55°	4.0	4.0	4.8	4.8	6.5	8.9	11.3	11.3
57.5°	4.0	4.0	4.0	4.8	5.7	8.1	9.7	9.7
60°	4.0	4.0	4.0	4.0	5.7	7.3	8.9	6.5



TEST NUMBER: P208905

CATALOG NUMBER: LDSQA6A30930D010TE LAR35FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	4.0	4.0	4.0	4.0	4.8	6.5	7.3	4.8
64°	4.0	4.0	4.0	4.8	4.8	6.5	6.5	4.8
65°	4.0	4.0	4.0	4.0	4.8	5.7	6.5	4.8
66°	4.0	4.0	4.0	4.0	4.8	5.7	5.7	4.8
67.5°	4.0	4.0	4.0	4.0	4.8	5.7	5.7	4.0
70°	4.0	4.0	4.0	4.0	4.8	4.8	4.8	4.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.8	4.0	3.2
75°	4.0	4.0	4.8	4.8	4.0	4.0	3.2	3.2
77.5°	4.0	4.0	4.8	4.8	4.0	4.0	3.2	2.4
80°	4.0	4.0	4.8	4.8	4.0	3.2	2.4	2.4
82.5°	4.0	4.0	4.8	4.8	4.0	3.2	2.4	1.6
85°	4.0	4.0	4.8	4.8	4.0	3.2	1.6	1.6
87.5°	4.0	4.0	4.8	4.8	4.0	2.4	1.6	0.8
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°	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2	4.0	4.0
62°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4





61°	4.0	4.0	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4





61°	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0
62°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0





61°	4.0	4.0	4.0	4.0	5.7	7.3	8.1	5.7
62°	4.0	4.0	4.0	4.0	5.7	7.3	7.3	5.7



(END OF REPORT)