

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: P208838

Luminaire Tested: **LDSQA6A30835D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29054)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A30835D010TE LARL15SP 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.0 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 0.62 / 1.12
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

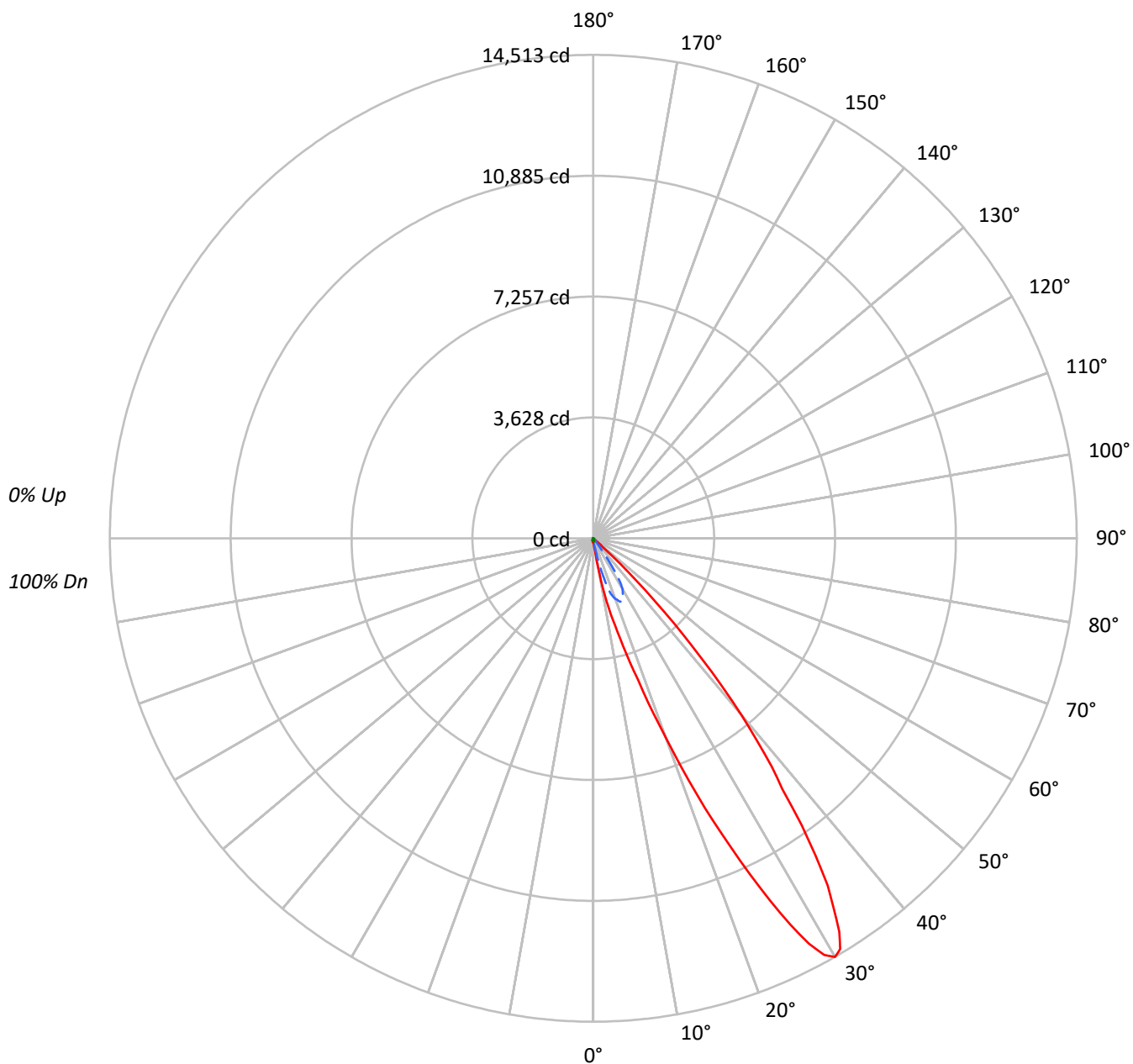
Input Watts (W): 44.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	106	104	110	107	105	102		103	101	99		99	98	96		96	95	93
2	106	100	95	91	103	98	94	90		95	91	88		92	89	86		89	87	85
3	99	91	86	81	97	90	85	80		87	83	79		85	81	78		82	79	76
4	93	84	77	72	91	82	76	72		80	75	71		78	73	70		76	72	69
5	86	76	70	64	85	75	69	64		74	68	63		72	67	63		70	66	62
6	81	70	63	58	79	69	62	58		68	62	57		66	61	57		65	60	56
7	75	64	57	52	74	64	57	52		62	56	51		61	55	51		60	55	51
8	70	59	52	47	69	58	52	47		57	51	47		56	50	46		55	50	46
9	66	54	47	42	65	54	47	42		53	46	42		52	46	42		51	46	42
10	62	50	43	38	60	50	43	38		49	42	38		48	42	38		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6028	6028	6028
5°	9292	5705	4581
10°	49836	5072	3804
15°	137410	4101	3254
20°	291793	3070	2841
25°	528179	2233	2470
30°	721519	1641	2188
35°	611603	1156	1997
40°	388232	787	1911
45°	134554	609	1766
50°	8239	469	1541
55°	1426	375	1201
60°	344	344	775
65°	204	408	611
70°	252	504	629
75°	0	665	665
80°	0	992	496
85°	0	1976	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.4	0.8
10°-20°	219.5	10.3
20°-30°	763.0	35.7
30°-40°	836.4	39.2
40°-50°	275.9	12.9
50°-60°	11.5	0.5
60°-70°	5.0	0.2
70°-80°	3.8	0.2
80°-90°	2.5	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°	999.9	46.8
0°-40°	1836.4	86.0
0°-60°	2123.7	99.5
0°-90°	2135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	215	175	132	113	106	45
15°	3083	1257	92	74	73	1024
25°	11118	2061	47	46	52	5203
35°	11636	687	22	29	38	6994
45°	2210	34	10	20	29	1947
55°	19	4	5	13	16	27
65°	2	3	4	8	6	2
75°	0	3	4	5	4	1
85°	0	3	4	3	1	0
90°	0	0	0	0	0	



TEST NUMBER: P208838

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	166.0	165.0	165.0	165.0	164.0	162.0	162.0	163.0	163.0	162.0	163.0
5°	215.0	213.0	212.0	211.0	207.0	206.0	202.0	205.0	202.0	199.0	199.0
7.5°	394.0	393.0	376.0	365.0	346.0	324.0	318.0	319.0	305.0	292.0	284.0
10°	1139.9	1141.9	1091.9	1111.9	1039.9	1010.9	955.9	935.9	885.9	843.9	792.9
11°	1524.9	1522.9	1459.9	1478.9	1405.9	1364.9	1302.9	1270.9	1207.9	1165.9	1101.9
12°	1940.8	1879.8	1858.8	1876.8	1801.8	1747.8	1672.9	1631.9	1553.9	1510.9	1433.9
13°	2352.8	2334.8	2264.8	2281.8	2204.8	2086.8	2055.8	2006.8	1915.8	1864.8	1778.8
14°	2709.8	2643.8	2621.8	2632.8	2556.8	2444.8	2413.8	2398.8	2258.8	2203.8	2107.8
15°	3082.7	3002.7	2971.7	2930.7	2885.7	2752.8	2707.8	2678.8	2533.8	2441.8	2379.8
17.5°	4438.6	4325.6	4249.6	4156.6	4057.6	3811.7	3709.7	3612.7	3358.7	3236.7	3052.7
20°	6368.4	6195.4	6000.5	5798.5	5604.5	5170.5	4918.6	4648.6	4301.6	4011.6	3791.7
21°	7302.3	7095.4	6860.4	6708.4	6343.4	5813.5	5473.5	5088.5	4642.6	4283.6	4006.6
22°	8281.3	8045.3	7849.3	7625.3	7119.4	6487.4	6060.5	5566.5	4989.6	4546.6	4196.6
23°	9232.2	8965.2	8730.2	8457.2	7872.3	7140.4	6633.4	6044.5	5349.5	4798.6	4365.6
24°	10140.1	9863.1	9593.1	9234.2	8564.2	7755.3	7159.4	6488.4	5692.5	5040.6	4524.6
25°	11118.0	10794.0	10445.1	9899.1	9218.2	8303.3	7617.3	6874.4	5997.5	5263.5	4658.6
26°	12091.9	11714.0	11191.0	10635.1	9821.1	8797.2	8015.3	7187.4	6257.4	5442.5	4757.6
27°	13005.8	12600.9	11986.9	11226.0	10362.1	9220.2	8343.3	7435.3	6438.4	5558.5	4803.6
28°	13787.8	13341.8	12657.9	11790.9	10765.0	9531.2	8560.2	7581.3	6525.4	5602.5	4809.6
29°	14302.7	13857.8	13120.8	12157.9	10993.0	9685.1	8646.2	7613.3	6520.4	5576.5	4768.6
30°	14512.7	14063.7	13310.8	12277.9	11036.0	9688.1	8611.2	7546.3	6433.4	5494.5	4687.6
31°	14389.7	13958.8	13194.8	12154.9	10884.0	9548.1	8464.2	7377.3	6260.4	5349.5	4566.6
32°	13935.8	13540.8	12806.9	11816.9	10571.1	9267.2	8211.3	7127.4	6016.5	5160.5	4415.6
33°	13243.8	12914.8	12164.9	11252.0	10153.1	8922.2	7903.3	6873.4	5722.5	4929.6	4254.6
34°	12580.9	12094.9	11430.0	10619.1	9617.1	8474.2	7521.3	6473.4	5410.5	4675.6	4070.6
35°	11636.0	11201.0	10587.1	9893.1	8993.2	7927.3	6974.4	6083.5	5061.5	4430.6	3877.7
36°	10639.1	10256.1	9810.1	9188.2	8327.3	7356.3	6484.4	5604.5	4702.6	4157.6	3673.7
37°	9421.2	9335.2	8920.2	8401.3	7632.3	6735.4	5915.5	5154.5	4366.6	3905.7	3449.7
38°	8702.2	8420.2	8040.3	7583.3	6829.4	6111.5	5366.5	4702.6	4061.6	3669.7	3194.7
39°	7787.3	7549.3	7199.4	6788.4	6139.5	5461.5	4855.6	4325.6	3809.7	3431.7	2919.7
40°	6907.4	6709.4	6388.4	6035.5	5446.5	4888.6	4414.6	3993.6	3559.7	3177.7	2647.8
42.5°	4355.6	4257.6	4125.6	4077.6	3866.7	3721.7	3548.7	3305.7	2923.7	2493.8	2123.8
45°	2209.8	2146.8	2144.8	2242.8	2309.8	2316.8	2300.8	2238.8	1990.8	1867.8	1538.9
47.5°	372.0	354.0	365.0	431.0	524.0	636.9	762.9	917.9	1083.9	1048.9	807.9
50°	123.0	119.0	116.0	119.0	115.0	118.0	116.0	113.0	102.0	107.0	110.0
51°	76.0	81.0	78.0	80.0	79.0	82.0	82.0	81.0	74.0	69.0	63.0
52°	52.0	53.0	54.0	55.0	54.0	55.0	56.0	56.0	54.0	52.0	47.0
53°	37.0	37.0	38.0	38.0	38.0	39.0	39.0	39.0	38.0	38.0	37.0
54°	26.0	27.0	27.0	27.0	27.0	28.0	28.0	28.0	29.0	28.0	28.0
55°	19.0	19.0	19.0	19.0	19.0	19.0	20.0	20.0	21.0	21.0	20.0
57.5°	8.0	8.0	7.0	8.0	8.0	8.0	8.0	9.0	9.0	10.0	10.0
60°	4.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0
64°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
66°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	160.0	162.0	159.0	161.0	157.0	157.0	154.0	155.0	154.0	152.0	152.0
5°	194.0	194.0	189.0	189.0	183.0	180.0	175.0	175.0	172.0	167.0	166.0
7.5°	266.0	256.0	245.0	241.0	229.0	221.0	212.0	208.0	199.0	191.0	185.0
10°	711.9	645.9	580.9	541.0	443.0	372.0	319.0	283.0	257.0	226.0	214.0
11°	1003.9	919.9	834.9	751.9	655.9	559.0	498.0	402.0	341.0	272.0	239.0
12°	1319.9	1220.9	1117.9	1023.9	908.9	786.9	702.9	580.9	495.0	380.0	300.0
13°	1643.9	1531.9	1408.9	1310.9	1180.9	1040.9	908.9	795.9	688.9	539.0	422.0
14°	1955.8	1836.8	1701.8	1598.9	1452.9	1300.9	1151.9	1026.9	896.9	717.9	573.9
15°	2233.8	2148.8	1977.8	1875.8	1718.8	1556.9	1390.9	1256.9	1102.9	903.9	737.9
17.5°	2815.7	2658.8	2449.8	2348.8	2192.8	2052.8	1872.8	1751.8	1561.9	1351.9	1168.9
20°	3501.7	3270.7	2987.7	2774.8	2504.8	2258.8	2031.8	1936.8	1818.8	1675.9	1504.9
21°	3689.7	3440.7	3131.7	2914.7	2637.8	2384.8	2117.8	1966.8	1837.8	1713.8	1570.9
22°	3826.7	3563.7	3238.7	3012.7	2727.8	2476.8	2203.8	2022.8	1850.8	1710.8	1581.9
23°	3942.6	3662.7	3324.7	3078.7	2780.8	2521.8	2247.8	2067.8	1877.8	1703.8	1563.9
24°	4047.6	3740.7	3385.7	3121.7	2807.7	2537.8	2253.8	2075.8	1890.8	1707.8	1539.9
25°	4126.6	3789.7	3420.7	3143.7	2813.7	2532.8	2239.8	2060.8	1875.8	1694.8	1512.9
26°	4180.6	3812.7	3430.7	3142.7	2801.8	2512.8	2210.8	2029.8	1839.8	1647.9	1468.9
27°	4197.6	3806.7	3416.7	3119.7	2771.8	2473.8	2161.8	1970.8	1783.8	1591.9	1409.9
28°	4180.6	3782.7	3384.7	3074.7	2721.8	2409.8	2082.8	1892.8	1723.8	1529.9	1337.9
29°	4133.6	3739.7	3325.7	3007.7	2642.8	2305.8	1981.8	1817.8	1654.9	1435.9	1216.9
30°	4060.6	3661.7	3240.7	2909.7	2525.8	2174.8	1890.8	1748.8	1540.9	1283.9	1047.9
31°	3958.6	3560.7	3130.7	2779.8	2369.8	2046.8	1811.8	1619.9	1362.9	1082.9	841.9
32°	3834.7	3440.7	2970.7	2606.8	2215.8	1945.8	1671.9	1422.9	1137.9	844.9	613.9
33°	3701.7	3286.7	2787.8	2424.8	2083.8	1810.8	1469.9	1179.9	885.9	593.9	387.0
34°	3547.7	3097.7	2582.8	2241.8	1935.8	1607.9	1229.9	916.9	631.9	361.0	199.0
35°	3361.7	2864.7	2378.8	2083.8	1723.8	1338.9	966.9	686.9	396.0	182.0	108.0
36°	3136.7	2624.8	2201.8	1880.8	1475.9	1074.9	697.9	438.0	213.0	107.0	85.0
37°	2850.7	2427.8	2015.8	1638.9	1207.9	806.9	450.0	238.0	122.0	87.0	72.0
38°	2603.8	2245.8	1816.8	1374.9	930.9	553.0	273.0	134.0	96.0	73.0	60.0
39°	2390.8	2050.8	1555.9	1096.9	663.9	335.0	150.0	102.0	80.0	60.0	51.0
40°	2204.8	1772.8	1279.9	822.9	427.0	186.0	108.0	85.0	65.0	50.0	41.0
42.5°	1617.9	1124.9	592.9	266.0	125.0	93.0	68.0	54.0	42.0	31.0	26.0
45°	960.9	506.0	179.0	109.0	79.0	59.0	43.0	34.0	26.0	19.0	16.0
47.5°	351.0	128.0	88.0	66.0	50.0	37.0	27.0	21.0	16.0	11.0	9.0
50°	72.0	62.0	48.0	39.0	29.0	22.0	16.0	12.0	9.0	7.0	6.0
51°	55.0	48.0	39.0	31.0	23.0	18.0	13.0	10.0	8.0	6.0	5.0
52°	42.0	37.0	30.0	25.0	19.0	14.0	10.0	8.0	6.0	4.0	4.0
53°	33.0	29.0	23.0	19.0	15.0	11.0	8.0	6.0	5.0	4.0	4.0
54°	25.0	22.0	18.0	15.0	12.0	9.0	6.0	5.0	4.0	4.0	3.0
55°	18.0	17.0	14.0	11.0	9.0	7.0	5.0	4.0	4.0	3.0	3.0
57.5°	9.0	8.0	7.0	6.0	5.0	4.0	3.0	3.0	3.0	3.0	2.0
60°	5.0	4.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	2.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0
64°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
65°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
66°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
75°	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
77.5°	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
80°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
82.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
85°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
87.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
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: P208838

CATALOG NUMBER: LDSQA6A30835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	149.0	151.0	149.0	147.0	146.0	146.0	145.0	142.0	143.0	142.0	142.0
5°	161.0	162.0	158.0	155.0	153.0	151.0	149.0	145.0	144.0	143.0	142.0
7.5°	177.0	176.0	168.0	163.0	158.0	154.0	150.0	145.0	143.0	140.0	138.0
10°	200.0	193.0	180.0	171.0	164.0	156.0	150.0	142.0	138.0	134.0	131.0
11°	210.0	200.0	187.0	175.0	166.0	157.0	150.0	140.0	135.0	131.0	127.0
12°	241.0	214.0	193.0	180.0	168.0	158.0	149.0	139.0	133.0	127.0	123.0
13°	312.0	249.0	206.0	183.0	171.0	159.0	148.0	137.0	130.0	123.0	119.0
14°	428.0	320.0	238.0	194.0	172.0	159.0	147.0	135.0	127.0	120.0	115.0
15°	566.9	430.0	303.0	221.0	176.0	158.0	145.0	132.0	123.0	115.0	110.0
17.5°	954.9	775.9	581.9	414.0	256.0	173.0	137.0	122.0	111.0	102.0	96.0
20°	1279.9	1073.9	854.9	645.9	443.0	276.0	158.0	111.0	98.0	88.0	82.0
21°	1350.9	1157.9	925.9	706.9	497.0	320.0	179.0	111.0	93.0	83.0	77.0
22°	1387.9	1201.9	969.9	746.9	534.0	351.0	201.0	112.0	88.0	78.0	71.0
23°	1381.9	1211.9	986.9	758.9	551.0	366.0	210.0	113.0	83.0	73.0	66.0
24°	1345.9	1184.9	969.9	744.9	546.0	362.0	207.0	111.0	78.0	68.0	62.0
25°	1300.9	1131.9	923.9	706.9	514.0	337.0	192.0	104.0	74.0	64.0	58.0
26°	1249.9	1078.9	859.9	639.9	462.0	295.0	162.0	92.0	68.0	59.0	54.0
27°	1188.9	1009.9	780.9	568.9	390.0	238.0	130.0	78.0	63.0	54.0	50.0
28°	1097.9	911.9	679.9	475.0	312.0	180.0	98.0	67.0	58.0	50.0	46.0
29°	961.9	773.9	554.0	371.0	229.0	124.0	75.0	60.0	52.0	45.0	42.0
30°	791.9	611.9	411.0	255.0	147.0	84.0	61.0	53.0	46.0	41.0	39.0
31°	599.9	435.0	266.0	147.0	88.0	62.0	54.0	46.0	41.0	37.0	36.0
32°	396.0	263.0	141.0	85.0	64.0	54.0	47.0	41.0	37.0	34.0	33.0
33°	212.0	121.0	81.0	64.0	54.0	47.0	41.0	36.0	33.0	31.0	30.0
34°	108.0	79.0	66.0	55.0	46.0	41.0	36.0	32.0	30.0	28.0	27.0
35°	80.0	68.0	57.0	47.0	40.0	36.0	32.0	29.0	27.0	25.0	25.0
36°	68.0	57.0	47.0	41.0	36.0	32.0	29.0	25.0	24.0	23.0	22.0
37°	57.0	49.0	41.0	35.0	31.0	28.0	25.0	23.0	21.0	20.0	20.0
38°	48.0	42.0	35.0	30.0	27.0	25.0	22.0	20.0	19.0	18.0	18.0
39°	40.0	35.0	30.0	26.0	23.0	21.0	19.0	18.0	17.0	16.0	16.0
40°	33.0	30.0	25.0	22.0	20.0	18.0	17.0	16.0	15.0	14.0	15.0
42.5°	21.0	18.0	16.0	15.0	13.0	13.0	12.0	11.0	11.0	11.0	11.0
45°	12.0	11.0	10.0	10.0	9.0	9.0	9.0	8.0	9.0	9.0	9.0
47.5°	7.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0
50°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0
51°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0
52°	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
53°	3.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
54°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0
55°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0
57.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0
60°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0



TEST NUMBER: P208838

CATALOG NUMBER: LDSQA6A30835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	4.0	4.0
64°	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0	4.0
65°	3.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	4.0
66°	3.0	3.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0
67.5°	3.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0
70°	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	3.0	4.0	4.0	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: P208838

CATALOG NUMBER: LDSQA6A30835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	139.0	138.0	137.0	137.0	129.0	125.0	120.0	120.0
5°	137.0	136.0	134.0	132.0	119.0	113.0	107.0	106.0
7.5°	133.0	130.0	127.0	125.0	109.0	102.0	96.0	95.0
10°	125.0	121.0	118.0	116.0	99.0	92.0	87.0	87.0
11°	121.0	117.0	114.0	111.0	94.0	88.0	84.0	84.0
12°	117.0	113.0	109.0	107.0	90.0	85.0	81.0	80.0
13°	113.0	108.0	105.0	102.0	86.0	81.0	78.0	78.0
14°	109.0	104.0	100.0	97.0	82.0	77.0	75.0	75.0
15°	103.0	98.0	95.0	92.0	77.0	74.0	72.0	73.0
17.5°	89.0	85.0	82.0	79.0	67.0	66.0	66.0	67.0
20°	76.0	72.0	69.0	67.0	58.0	59.0	60.0	62.0
21°	71.0	67.0	64.0	62.0	55.0	56.0	58.0	60.0
22°	66.0	63.0	60.0	58.0	52.0	53.0	56.0	58.0
23°	61.0	58.0	56.0	54.0	49.0	51.0	54.0	56.0
24°	57.0	54.0	52.0	50.0	46.0	48.0	52.0	54.0
25°	53.0	50.0	48.0	47.0	43.0	46.0	50.0	52.0
26°	49.0	47.0	45.0	44.0	41.0	44.0	48.0	51.0
27°	45.0	43.0	42.0	41.0	38.0	42.0	46.0	49.0
28°	42.0	40.0	39.0	38.0	36.0	40.0	45.0	47.0
29°	39.0	37.0	36.0	35.0	34.0	38.0	43.0	46.0
30°	36.0	35.0	33.0	33.0	32.0	37.0	41.0	44.0
31°	33.0	32.0	31.0	30.0	30.0	35.0	40.0	43.0
32°	31.0	30.0	29.0	28.0	29.0	33.0	38.0	42.0
33°	28.0	27.0	27.0	26.0	27.0	32.0	37.0	41.0
34°	25.0	25.0	24.0	24.0	26.0	31.0	36.0	39.0
35°	23.0	22.0	22.0	22.0	25.0	29.0	35.0	38.0
36°	21.0	21.0	20.0	20.0	24.0	28.0	34.0	37.0
37°	19.0	19.0	19.0	18.0	22.0	27.0	32.0	36.0
38°	17.0	17.0	17.0	17.0	21.0	26.0	32.0	36.0
39°	15.0	15.0	16.0	16.0	20.0	25.0	30.0	35.0
40°	14.0	14.0	14.0	14.0	19.0	24.0	29.0	34.0
42.5°	11.0	11.0	12.0	12.0	17.0	22.0	27.0	31.0
45°	9.0	9.0	10.0	10.0	15.0	20.0	24.0	29.0
47.5°	7.0	7.0	8.0	8.0	13.0	18.0	22.0	26.0
50°	5.0	6.0	6.0	7.0	12.0	16.0	19.0	23.0
51°	5.0	5.0	6.0	6.0	11.0	15.0	18.0	22.0
52°	5.0	5.0	6.0	6.0	10.0	14.0	17.0	20.0
53°	4.0	5.0	5.0	6.0	10.0	14.0	16.0	19.0
54°	4.0	4.0	5.0	5.0	10.0	13.0	16.0	17.0
55°	4.0	4.0	5.0	5.0	9.0	13.0	15.0	16.0
57.5°	4.0	4.0	4.0	4.0	8.0	11.0	13.0	13.0
60°	4.0	4.0	4.0	4.0	8.0	10.0	12.0	9.0



TEST NUMBER: P208838

CATALOG NUMBER: LDSQA6A30835D010TE LARL15SP 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	7.0	9.0	9.0	7.0
64°	4.0	4.0	4.0	4.0	7.0	9.0	9.0	7.0
65°	4.0	4.0	4.0	4.0	7.0	8.0	8.0	6.0
66°	4.0	4.0	4.0	4.0	7.0	8.0	8.0	6.0
67.5°	4.0	4.0	4.0	4.0	6.0	7.0	7.0	6.0
70°	4.0	4.0	4.0	4.0	6.0	7.0	6.0	5.0
72.5°	4.0	4.0	4.0	4.0	6.0	6.0	5.0	4.0
75°	4.0	4.0	4.0	4.0	5.0	5.0	4.0	4.0
77.5°	4.0	4.0	4.0	4.0	5.0	5.0	4.0	3.0
80°	4.0	4.0	4.0	4.0	5.0	4.0	3.0	2.0
82.5°	4.0	4.0	4.0	4.0	4.0	3.0	2.0	2.0
85°	4.0	4.0	4.0	4.0	4.0	3.0	2.0	1.0
87.5°	4.0	4.0	4.0	4.0	4.0	3.0	1.0	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°	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0
62°	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0





61°	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0
62°	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0





61°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0
62°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0





61°	4.0	4.0	4.0	4.0	7.0	10.0	11.0	8.0
62°	4.0	4.0	4.0	4.0	7.0	9.0	10.0	7.0



(END OF REPORT)