

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: P208830

Luminaire Tested: **LDSQA6A20835D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208830
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: LDSQA6A20835D010TE 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: 1534.5 lumens
Efficiency: N/A
Efficacy: 53.3 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

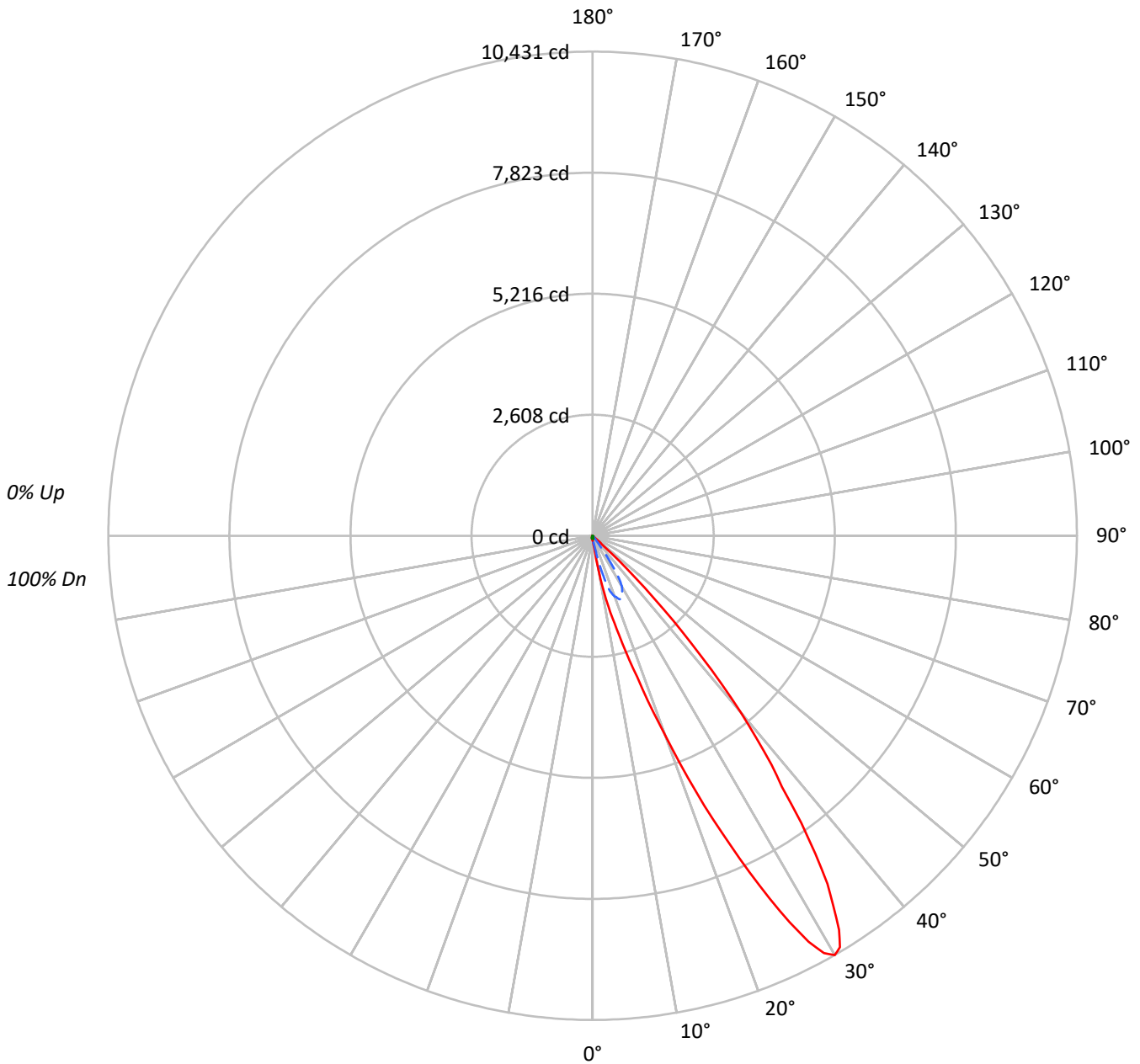
Input Watts (W): 28.81
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75																			
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67																			
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61																			
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55																			
7	75	64	57	52	74	64	57	52	62	56	51	61	55	51	60	55	51	49																			
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44																			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4331	4331	4331
5°	6678	4102	3293
10°	35820	3646	2732
15°	98764	2946	2340
20°	209727	2208	2044
25°	379631	1606	1777
30°	518592	1178	1571
35°	439586	830	1435
40°	279042	568	1371
45°	96711	438	1267
50°	5921	335	1105
55°	1028	270	863
60°	250	250	560
65°	143	295	438
70°	176	365	453
75°	0	482	482
80°	0	719	347
85°	0	1433	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.8
10°-20°	157.8	10.3
20°-30°	548.4	35.7
30°-40°	601.2	39.2
40°-50°	198.3	12.9
50°-60°	8.2	0.5
60°-70°	3.6	0.2
70°-80°	2.8	0.2
80°-90°	1.8	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°	718.7	46.8
0°-40°	1319.9	86.0
0°-60°	1526.4	99.5
0°-90°	1534.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	101	101	101	101	101	
5°	154	126	95	81	76	33
15°	2216	903	66	53	52	736
25°	7991	1481	34	33	37	3740
35°	8363	494	16	21	27	5027
45°	1588	24	7	14	21	1399
55°	14	3	4	9	12	19
65°	1	2	3	6	4	2
75°	0	2	3	4	3	1
85°	0	2	3	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°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6
2.5°	119.3	118.6	118.6	118.6	117.9	116.4	116.4	117.1	117.1	116.4	117.1
5°	154.5	153.1	152.4	151.6	148.8	148.0	145.2	147.3	145.2	143.0	143.0
7.5°	283.2	282.4	270.2	262.3	248.7	232.9	228.5	229.3	219.2	209.9	204.1
10°	819.3	820.7	784.8	799.2	747.4	726.6	687.1	672.7	636.8	606.6	569.9
11°	1096.0	1094.6	1049.3	1062.9	1010.5	981.0	936.4	913.4	868.2	838.0	792.0
12°	1395.0	1351.1	1336.0	1349.0	1295.1	1256.3	1202.4	1172.9	1116.8	1085.9	1030.6
13°	1691.1	1678.1	1627.8	1640.0	1584.7	1499.9	1477.6	1442.4	1377.0	1340.3	1278.5
14°	1947.6	1900.2	1884.4	1892.3	1837.7	1757.2	1734.9	1724.1	1623.5	1584.0	1515.0
15°	2215.7	2158.2	2135.9	2106.5	2074.1	1978.5	1946.2	1925.4	1821.2	1755.0	1710.5
17.5°	3190.2	3109.0	3054.4	2987.6	2916.4	2739.6	2666.3	2596.6	2414.1	2326.4	2194.1
20°	4577.3	4453.0	4312.8	4167.7	4028.2	3716.3	3535.2	3341.2	3091.8	2883.4	2725.3
21°	5248.6	5099.8	4930.9	4821.7	4559.3	4178.4	3934.1	3657.4	3336.9	3078.9	2879.8
22°	5952.2	5782.5	5641.7	5480.7	5117.0	4662.8	4356.0	4000.9	3586.2	3267.9	3016.3
23°	6635.6	6443.7	6274.8	6078.6	5658.2	5132.1	4767.8	4344.5	3845.0	3449.0	3137.8
24°	7288.2	7089.1	6895.1	6637.1	6155.5	5574.1	5145.8	4663.6	4091.5	3622.9	3252.1
25°	7991.1	7758.2	7507.4	7115.0	6625.6	5968.0	5474.9	4941.0	4310.7	3783.2	3348.4
26°	8691.1	8419.4	8043.5	7643.9	7058.9	6323.0	5761.0	5165.9	4497.5	3911.8	3419.5
27°	9347.9	9056.9	8615.6	8068.7	7447.7	6627.0	5996.7	5344.1	4627.6	3995.2	3452.6
28°	9910.0	9589.4	9097.8	8474.7	7737.4	6850.5	6152.7	5449.1	4690.1	4026.8	3456.9
29°	10280.1	9960.3	9430.6	8738.5	7901.2	6961.2	6214.5	5472.1	4686.6	4008.1	3427.4
30°	10431.0	10108.3	9567.1	8824.7	7932.1	6963.3	6189.3	5423.9	4624.0	3949.2	3369.2
31°	10342.6	10032.9	9483.8	8736.3	7822.9	6862.7	6083.7	5302.5	4499.7	3845.0	3282.2
32°	10016.3	9732.4	9204.9	8493.4	7597.9	6660.8	5901.8	5122.8	4324.3	3709.1	3173.7
33°	9519.0	9282.5	8743.5	8087.4	7297.5	6412.8	5680.5	4940.2	4113.0	3543.1	3058.0
34°	9042.5	8693.2	8215.3	7632.4	6912.3	6090.9	5406.0	4652.8	3888.8	3360.6	2925.8
35°	8363.3	8050.7	7609.4	7110.7	6463.9	5697.7	5012.8	4372.5	3638.0	3184.5	2787.1
36°	7646.8	7371.6	7051.0	6604.0	5985.2	5287.4	4660.7	4028.2	3380.0	2988.3	2640.5
37°	6771.5	6709.7	6411.4	6038.4	5485.7	4841.1	4251.7	3704.8	3138.5	2807.2	2479.5
38°	6254.7	6052.1	5779.0	5450.5	4908.6	4392.6	3857.2	3380.0	2919.3	2637.6	2296.2
39°	5597.1	5426.1	5174.5	4879.2	4412.7	3925.5	3489.9	3109.0	2738.2	2466.5	2098.6
40°	4964.7	4822.4	4591.7	4338.0	3914.7	3513.7	3173.0	2870.4	2558.5	2284.0	1903.1
42.5°	3130.6	3060.2	2965.3	2930.8	2779.2	2674.9	2550.6	2376.0	2101.4	1792.4	1526.5
45°	1588.3	1543.0	1541.6	1612.0	1660.2	1665.2	1653.7	1609.1	1430.9	1342.5	1106.1
47.5°	267.4	254.4	262.3	309.8	376.6	457.8	548.4	659.8	779.1	753.9	580.7
50°	88.4	85.5	83.4	85.5	82.6	84.8	83.4	81.2	73.3	76.9	79.1
51°	54.6	58.2	56.1	57.5	56.8	58.9	58.9	58.2	53.2	49.6	45.3
52°	37.4	38.1	38.8	39.5	38.8	39.5	40.2	40.2	38.8	37.4	33.8
53°	26.6	26.6	27.3	27.3	27.3	28.0	28.0	28.0	27.3	27.3	26.6
54°	18.7	19.4	19.4	19.4	19.4	20.1	20.1	20.1	20.8	20.1	20.1
55°	13.7	13.7	13.7	13.7	13.7	13.7	14.4	14.4	15.1	15.1	14.4
57.5°	5.7	5.7	5.0	5.7	5.7	5.7	5.7	6.5	6.5	7.2	7.2
60°	2.9	2.9	2.9	2.9	2.2	2.9	2.9	2.9	2.9	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.4	1.4	1.4	1.4	1.4	1.4	0.7	1.4	1.4	1.4	1.4
64°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7
66°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6
2.5°	115.0	116.4	114.3	115.7	112.8	112.8	110.7	111.4	110.7	109.2	109.2
5°	139.4	139.4	135.8	135.8	131.5	129.4	125.8	125.8	123.6	120.0	119.3
7.5°	191.2	184.0	176.1	173.2	164.6	158.8	152.4	149.5	143.0	137.3	133.0
10°	511.7	464.3	417.6	388.8	318.4	267.4	229.3	203.4	184.7	162.4	153.8
11°	721.6	661.2	600.1	540.5	471.5	401.7	357.9	288.9	245.1	195.5	171.8
12°	948.7	877.5	803.5	735.9	653.3	565.6	505.2	417.6	355.7	273.1	215.6
13°	1181.5	1101.0	1012.6	942.2	848.8	748.2	653.3	572.1	495.2	387.4	303.3
14°	1405.7	1320.2	1223.2	1149.2	1044.3	935.0	827.9	738.1	644.7	516.0	412.5
15°	1605.5	1544.5	1421.6	1348.3	1235.4	1119.0	999.7	903.4	792.7	649.7	530.4
17.5°	2023.8	1911.0	1760.8	1688.2	1576.1	1475.5	1346.1	1259.1	1122.6	971.7	840.1
20°	2516.8	2350.8	2147.4	1994.4	1800.3	1623.5	1460.4	1392.1	1307.3	1204.5	1081.6
21°	2652.0	2473.0	2250.9	2095.0	1895.9	1714.1	1522.2	1413.7	1320.9	1231.8	1129.1
22°	2750.4	2561.4	2327.8	2165.4	1960.6	1780.2	1584.0	1453.9	1330.3	1229.7	1137.0
23°	2833.8	2632.5	2389.6	2212.8	1998.7	1812.5	1615.6	1486.2	1349.7	1224.6	1124.0
24°	2909.2	2688.6	2433.5	2243.7	2018.1	1824.0	1619.9	1492.0	1359.0	1227.5	1106.8
25°	2966.0	2723.8	2458.6	2259.5	2022.4	1820.4	1609.9	1481.2	1348.3	1218.2	1087.4
26°	3004.8	2740.3	2465.8	2258.8	2013.8	1806.1	1589.0	1458.9	1322.4	1184.4	1055.7
27°	3017.0	2736.0	2455.7	2242.3	1992.2	1778.0	1553.8	1416.5	1282.1	1144.1	1013.3
28°	3004.8	2718.8	2432.8	2210.0	1956.3	1732.0	1497.0	1360.5	1239.0	1099.6	961.6
29°	2971.0	2687.9	2390.3	2161.8	1899.5	1657.3	1424.4	1306.6	1189.4	1032.0	874.6
30°	2918.6	2631.8	2329.3	2091.4	1815.4	1563.1	1359.0	1257.0	1107.5	922.8	753.2
31°	2845.3	2559.2	2250.2	1997.9	1703.3	1471.2	1302.3	1164.3	979.6	778.3	605.1
32°	2756.2	2473.0	2135.2	1873.6	1592.6	1398.6	1201.6	1022.7	817.9	607.3	441.3
33°	2660.6	2362.3	2003.7	1742.8	1497.7	1301.5	1056.5	848.0	636.8	426.9	278.1
34°	2549.9	2226.5	1856.4	1611.3	1391.4	1155.6	884.0	659.0	454.2	259.4	143.0
35°	2416.2	2059.0	1709.8	1497.7	1239.0	962.3	695.0	493.7	284.6	130.8	77.6
36°	2254.5	1886.6	1582.5	1351.8	1060.8	772.6	501.6	314.8	153.1	76.9	61.1
37°	2049.0	1745.0	1448.9	1177.9	868.2	580.0	323.4	171.0	87.7	62.5	51.7
38°	1871.5	1614.2	1305.9	988.2	669.1	397.4	196.2	96.3	69.0	52.5	43.1
39°	1718.4	1474.0	1118.3	788.4	477.2	240.8	107.8	73.3	57.5	43.1	36.7
40°	1584.7	1274.2	919.9	591.5	306.9	133.7	77.6	61.1	46.7	35.9	29.5
42.5°	1162.8	808.5	426.2	191.2	89.8	66.8	48.9	38.8	30.2	22.3	18.7
45°	690.7	363.7	128.6	78.3	56.8	42.4	30.9	24.4	18.7	13.7	11.5
47.5°	252.3	92.0	63.2	47.4	35.9	26.6	19.4	15.1	11.5	7.9	6.5
50°	51.7	44.6	34.5	28.0	20.8	15.8	11.5	8.6	6.5	5.0	4.3
51°	39.5	34.5	28.0	22.3	16.5	12.9	9.3	7.2	5.7	4.3	3.6
52°	30.2	26.6	21.6	18.0	13.7	10.1	7.2	5.7	4.3	2.9	2.9
53°	23.7	20.8	16.5	13.7	10.8	7.9	5.7	4.3	3.6	2.9	2.9
54°	18.0	15.8	12.9	10.8	8.6	6.5	4.3	3.6	2.9	2.9	2.2
55°	12.9	12.2	10.1	7.9	6.5	5.0	3.6	2.9	2.9	2.2	2.2
57.5°	6.5	5.7	5.0	4.3	3.6	2.9	2.2	2.2	2.2	2.2	1.4
60°	3.6	2.9	2.9	2.9	2.2	2.2	2.2	1.4	1.4	2.2	2.2



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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°	1.4	1.4	1.4	1.4	2.2	1.4	1.4	1.4	2.2	2.2	2.2
64°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
65°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
66°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
75°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
77.5°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
80°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
82.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
85°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
87.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	2.2	2.2	2.2	2.2
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: P208830

CATALOG NUMBER: LDSQA6A20835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6
2.5°	107.1	108.5	107.1	105.6	104.9	104.9	104.2	102.1	102.8	102.1	102.1
5°	115.7	116.4	113.6	111.4	110.0	108.5	107.1	104.2	103.5	102.8	102.1
7.5°	127.2	126.5	120.7	117.1	113.6	110.7	107.8	104.2	102.8	100.6	99.2
10°	143.7	138.7	129.4	122.9	117.9	112.1	107.8	102.1	99.2	96.3	94.1
11°	150.9	143.7	134.4	125.8	119.3	112.8	107.8	100.6	97.0	94.1	91.3
12°	173.2	153.8	138.7	129.4	120.7	113.6	107.1	99.9	95.6	91.3	88.4
13°	224.2	179.0	148.0	131.5	122.9	114.3	106.4	98.5	93.4	88.4	85.5
14°	307.6	230.0	171.0	139.4	123.6	114.3	105.6	97.0	91.3	86.2	82.6
15°	407.5	309.0	217.8	158.8	126.5	113.6	104.2	94.9	88.4	82.6	79.1
17.5°	686.3	557.7	418.3	297.5	184.0	124.3	98.5	87.7	79.8	73.3	69.0
20°	919.9	771.9	614.5	464.3	318.4	198.4	113.6	79.8	70.4	63.2	58.9
21°	970.9	832.2	665.5	508.1	357.2	230.0	128.6	79.8	66.8	59.7	55.3
22°	997.5	863.9	697.1	536.9	383.8	252.3	144.5	80.5	63.2	56.1	51.0
23°	993.2	871.0	709.3	545.5	396.0	263.0	150.9	81.2	59.7	52.5	47.4
24°	967.4	851.6	697.1	535.4	392.4	260.2	148.8	79.8	56.1	48.9	44.6
25°	935.0	813.6	664.1	508.1	369.4	242.2	138.0	74.7	53.2	46.0	41.7
26°	898.4	775.5	618.1	460.0	332.0	212.0	116.4	66.1	48.9	42.4	38.8
27°	854.5	725.9	561.3	408.9	280.3	171.0	93.4	56.1	45.3	38.8	35.9
28°	789.1	655.4	488.7	341.4	224.2	129.4	70.4	48.2	41.7	35.9	33.1
29°	691.4	556.3	398.2	266.6	164.6	89.1	53.9	43.1	37.4	32.3	30.2
30°	569.2	439.8	295.4	183.3	105.6	60.4	43.8	38.1	33.1	29.5	28.0
31°	431.2	312.6	191.2	105.6	63.2	44.6	38.8	33.1	29.5	26.6	25.9
32°	284.6	189.0	101.3	61.1	46.0	38.8	33.8	29.5	26.6	24.4	23.7
33°	152.4	87.0	58.2	46.0	38.8	33.8	29.5	25.9	23.7	22.3	21.6
34°	77.6	56.8	47.4	39.5	33.1	29.5	25.9	23.0	21.6	20.1	19.4
35°	57.5	48.9	41.0	33.8	28.7	25.9	23.0	20.8	19.4	18.0	18.0
36°	48.9	41.0	33.8	29.5	25.9	23.0	20.8	18.0	17.2	16.5	15.8
37°	41.0	35.2	29.5	25.2	22.3	20.1	18.0	16.5	15.1	14.4	14.4
38°	34.5	30.2	25.2	21.6	19.4	18.0	15.8	14.4	13.7	12.9	12.9
39°	28.7	25.2	21.6	18.7	16.5	15.1	13.7	12.9	12.2	11.5	11.5
40°	23.7	21.6	18.0	15.8	14.4	12.9	12.2	11.5	10.8	10.1	10.8
42.5°	15.1	12.9	11.5	10.8	9.3	9.3	8.6	7.9	7.9	7.9	7.9
45°	8.6	7.9	7.2	7.2	6.5	6.5	6.5	5.7	6.5	6.5	6.5
47.5°	5.0	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.0
50°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.6	3.6
51°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.6
52°	2.9	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.9	2.9	2.9
53°	2.2	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	2.9
54°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9
57.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9



TEST NUMBER: P208830

CATALOG NUMBER: LDSQA6A20835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.2	2.2	2.2	2.2	2.2	2.9	2.2	2.2	2.2	2.9	2.9
64°	2.2	2.2	2.2	2.2	2.2	2.9	2.2	2.2	2.2	2.2	2.9
65°	2.2	2.2	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.2	2.9
66°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9
67.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.9	2.9	2.9
70°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
72.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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: P208830

CATALOG NUMBER: LDSQA6A20835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6
2.5°	99.9	99.2	98.5	98.5	92.7	89.8	86.2	86.2
5°	98.5	97.7	96.3	94.9	85.5	81.2	76.9	76.2
7.5°	95.6	93.4	91.3	89.8	78.3	73.3	69.0	68.3
10°	89.8	87.0	84.8	83.4	71.1	66.1	62.5	62.5
11°	87.0	84.1	81.9	79.8	67.6	63.2	60.4	60.4
12°	84.1	81.2	78.3	76.9	64.7	61.1	58.2	57.5
13°	81.2	77.6	75.5	73.3	61.8	58.2	56.1	56.1
14°	78.3	74.7	71.9	69.7	58.9	55.3	53.9	53.9
15°	74.0	70.4	68.3	66.1	55.3	53.2	51.7	52.5
17.5°	64.0	61.1	58.9	56.8	48.2	47.4	47.4	48.2
20°	54.6	51.7	49.6	48.2	41.7	42.4	43.1	44.6
21°	51.0	48.2	46.0	44.6	39.5	40.2	41.7	43.1
22°	47.4	45.3	43.1	41.7	37.4	38.1	40.2	41.7
23°	43.8	41.7	40.2	38.8	35.2	36.7	38.8	40.2
24°	41.0	38.8	37.4	35.9	33.1	34.5	37.4	38.8
25°	38.1	35.9	34.5	33.8	30.9	33.1	35.9	37.4
26°	35.2	33.8	32.3	31.6	29.5	31.6	34.5	36.7
27°	32.3	30.9	30.2	29.5	27.3	30.2	33.1	35.2
28°	30.2	28.7	28.0	27.3	25.9	28.7	32.3	33.8
29°	28.0	26.6	25.9	25.2	24.4	27.3	30.9	33.1
30°	25.9	25.2	23.7	23.7	23.0	26.6	29.5	31.6
31°	23.7	23.0	22.3	21.6	21.6	25.2	28.7	30.9
32°	22.3	21.6	20.8	20.1	20.8	23.7	27.3	30.2
33°	20.1	19.4	19.4	18.7	19.4	23.0	26.6	29.5
34°	18.0	18.0	17.2	17.2	18.7	22.3	25.9	28.0
35°	16.5	15.8	15.8	15.8	18.0	20.8	25.2	27.3
36°	15.1	15.1	14.4	14.4	17.2	20.1	24.4	26.6
37°	13.7	13.7	13.7	12.9	15.8	19.4	23.0	25.9
38°	12.2	12.2	12.2	12.2	15.1	18.7	23.0	25.9
39°	10.8	10.8	11.5	11.5	14.4	18.0	21.6	25.2
40°	10.1	10.1	10.1	10.1	13.7	17.2	20.8	24.4
42.5°	7.9	7.9	8.6	8.6	12.2	15.8	19.4	22.3
45°	6.5	6.5	7.2	7.2	10.8	14.4	17.2	20.8
47.5°	5.0	5.0	5.7	5.7	9.3	12.9	15.8	18.7
50°	3.6	4.3	4.3	5.0	8.6	11.5	13.7	16.5
51°	3.6	3.6	4.3	4.3	7.9	10.8	12.9	15.8
52°	3.6	3.6	4.3	4.3	7.2	10.1	12.2	14.4
53°	2.9	3.6	3.6	4.3	7.2	10.1	11.5	13.7
54°	2.9	2.9	3.6	3.6	7.2	9.3	11.5	12.2
55°	2.9	2.9	3.6	3.6	6.5	9.3	10.8	11.5
57.5°	2.9	2.9	2.9	2.9	5.7	7.9	9.3	9.3
60°	2.9	2.9	2.9	2.9	5.7	7.2	8.6	6.5



TEST NUMBER: P208830

CATALOG NUMBER: LDSQA6A20835D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.9	2.9	2.9	2.9	5.0	6.5	6.5	5.0
64°	2.9	2.9	2.9	2.9	5.0	6.5	6.5	5.0
65°	2.9	2.9	2.9	2.9	5.0	5.7	5.7	4.3
66°	2.9	2.9	2.9	2.9	5.0	5.7	5.7	4.3
67.5°	2.9	2.9	2.9	2.9	4.3	5.0	5.0	4.3
70°	2.9	2.9	2.9	2.9	4.3	5.0	4.3	3.6
72.5°	2.9	2.9	2.9	2.9	4.3	4.3	3.6	2.9
75°	2.9	2.9	2.9	2.9	3.6	3.6	2.9	2.9
77.5°	2.9	2.9	2.9	2.9	3.6	3.6	2.9	2.2
80°	2.9	2.9	2.9	2.9	3.6	2.9	2.2	1.4
82.5°	2.9	2.9	2.9	2.9	2.9	2.2	1.4	1.4
85°	2.9	2.9	2.9	2.9	2.9	2.2	1.4	0.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.2	0.7	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°	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9
62°	2.2	2.2	2.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4





61°	2.9	2.2	2.2	2.2	2.2	2.2	2.2	1.4	1.4	2.2	2.2
62°	2.2	2.2	2.2	2.2	2.2	2.2	1.4	1.4	1.4	2.2	2.2





61°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9
62°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2





61°	2.9	2.9	2.9	2.9	5.0	7.2	7.9	5.7
62°	2.9	2.9	2.9	2.9	5.0	6.5	7.2	5.0



(END OF REPORT)