

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: P208832

Luminaire Tested: **LDSQA6A20927D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208832
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: LDSQA6A20927D010TE LARL15SP 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1185.4 lumens
Efficiency: N/A
Efficacy: 41.1 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

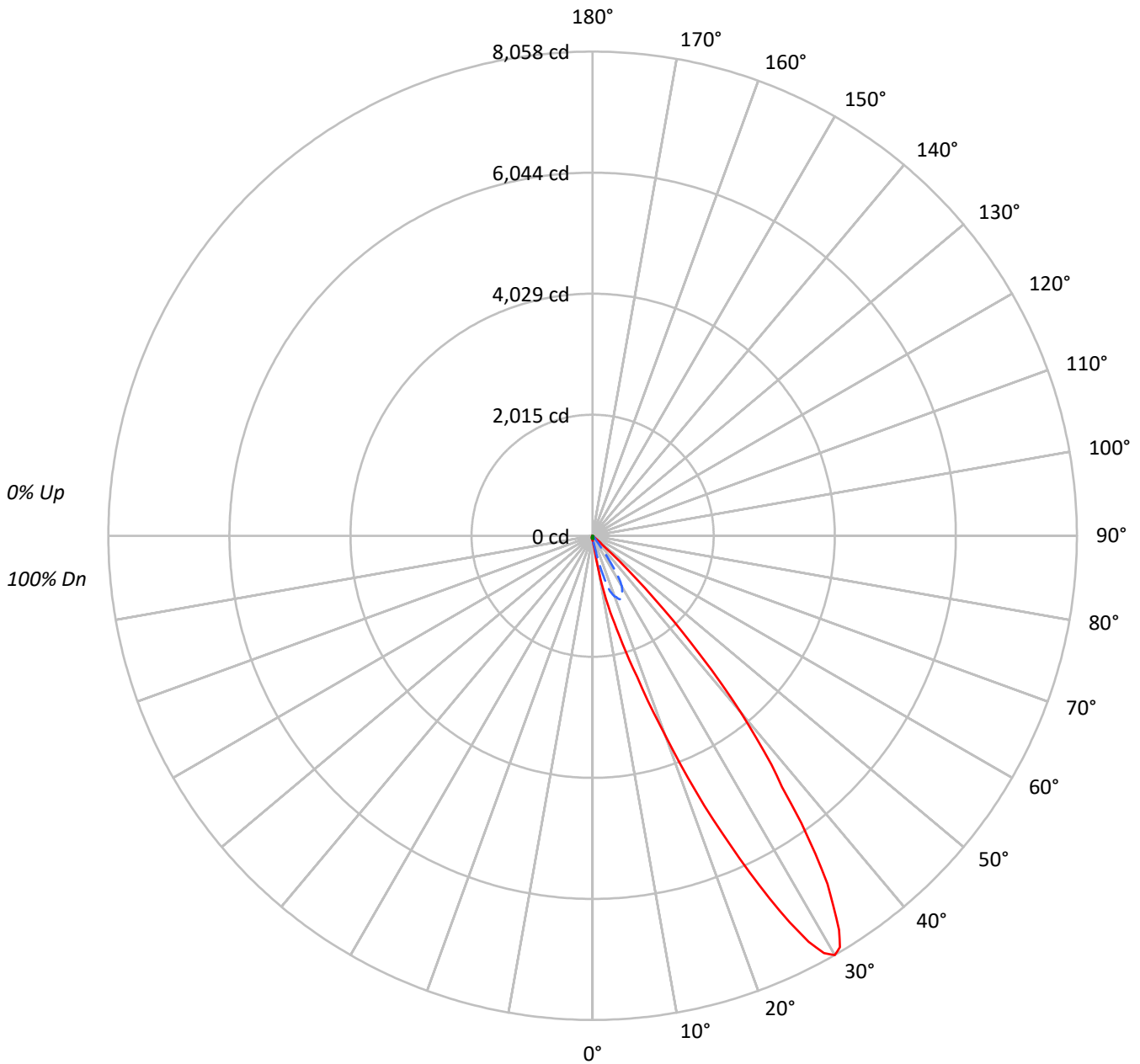
Input Watts (W): 28.81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	3345	3345	3345
5°	5160	3168	2546
10°	27670	2816	2112
15°	76298	2278	1805
20°	162016	1704	1576
25°	293268	1240	1373
30°	400620	910	1213
35°	339588	641	1109
40°	215564	438	1062
45°	74712	341	980
50°	4575	261	857
55°	788	210	668
60°	189	189	431
65°	112	224	336
70°	138	277	352
75°	0	366	366
80°	0	545	273
85°	0	1087	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.8
10°-20°	121.9	10.3
20°-30°	423.6	35.7
30°-40°	464.4	39.2
40°-50°	153.2	12.9
50°-60°	6.4	0.5
60°-70°	2.8	0.2
70°-80°	2.1	0.2
80°-90°	1.4	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°	555.2	46.8
0°-40°	1019.6	86.0
0°-60°	1179.1	99.5
0°-90°	1185.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	78	78	78	78	78	
5°	119	97	73	63	59	25
15°	1712	698	51	41	40	569
25°	6173	1144	26	26	29	2889
35°	6461	381	12	16	21	3883
45°	1227	19	6	11	16	1081
55°	10	2	3	7	9	15
65°	1	2	2	4	3	1
75°	0	2	2	3	2	0
85°	0	2	2	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°	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2.5°	92.2	91.6	91.6	91.6	91.1	89.9	89.9	90.5	90.5	89.9	90.5
5°	119.4	118.3	117.7	117.1	114.9	114.4	112.1	113.8	112.1	110.5	110.5
7.5°	218.7	218.2	208.8	202.6	192.1	179.9	176.6	177.1	169.3	162.1	157.7
10°	632.9	634.0	606.3	617.4	577.4	561.3	530.8	519.7	491.9	468.6	440.3
11°	846.7	845.6	810.6	821.1	780.6	757.8	723.4	705.7	670.7	647.4	611.8
12°	1077.6	1043.8	1032.1	1042.1	1000.5	970.5	928.8	906.1	862.8	838.9	796.1
13°	1306.4	1296.4	1257.5	1267.0	1224.2	1158.7	1141.5	1114.3	1063.8	1035.4	987.7
14°	1504.6	1467.9	1455.7	1461.8	1419.6	1357.4	1340.2	1331.9	1254.2	1223.6	1170.3
15°	1711.7	1667.2	1650.0	1627.3	1602.3	1528.4	1503.5	1487.4	1406.9	1355.8	1321.4
17.5°	2464.5	2401.8	2359.6	2307.9	2253.0	2116.4	2059.8	2005.9	1864.9	1797.2	1695.0
20°	3536.0	3440.0	3331.7	3219.6	3111.9	2870.9	2731.0	2581.1	2388.4	2227.4	2105.3
21°	4054.6	3939.7	3809.2	3724.8	3522.1	3227.9	3039.1	2825.4	2577.8	2378.4	2224.7
22°	4598.1	4467.1	4358.3	4233.9	3953.0	3602.1	3365.0	3090.8	2770.4	2524.5	2330.1
23°	5126.1	4977.9	4847.4	4695.8	4371.0	3964.6	3683.2	3356.1	2970.3	2664.4	2424.0
24°	5630.2	5476.4	5326.5	5127.2	4755.2	4306.1	3975.2	3602.7	3160.7	2798.7	2512.3
25°	6173.2	5993.3	5799.6	5496.4	5118.3	4610.3	4229.5	3817.0	3330.1	2922.5	2586.6
26°	6714.0	6504.1	6213.7	5905.0	5453.1	4884.6	4450.4	3990.7	3474.4	3021.9	2641.6
27°	7221.4	6996.5	6655.7	6233.2	5753.5	5119.4	4632.5	4128.4	3574.9	3086.3	2667.1
28°	7655.6	7407.9	7028.2	6546.8	5977.2	5292.1	4753.0	4209.5	3623.2	3110.7	2670.5
29°	7941.5	7694.4	7285.2	6750.6	6103.8	5377.6	4800.8	4227.2	3620.4	3096.3	2647.7
30°	8058.1	7808.8	7390.7	6817.2	6127.7	5379.3	4781.3	4190.0	3572.1	3050.8	2602.7
31°	7989.8	7750.5	7326.3	6748.9	6043.3	5301.5	4699.7	4096.2	3476.1	2970.3	2535.6
32°	7737.7	7518.4	7110.9	6561.3	5869.5	5145.5	4559.2	3957.4	3340.6	2865.4	2451.7
33°	7353.5	7170.9	6754.5	6247.6	5637.4	4954.0	4388.2	3816.4	3177.4	2737.1	2362.3
34°	6985.4	6715.6	6346.4	5896.2	5339.9	4705.3	4176.2	3594.3	3004.2	2596.1	2260.2
35°	6460.8	6219.3	5878.4	5493.1	4993.4	4401.6	3872.5	3377.8	2810.4	2460.1	2153.0
36°	5907.3	5694.6	5447.0	5101.7	4623.7	4084.6	3600.4	3111.9	2611.1	2308.5	2039.8
37°	5231.0	5183.3	4952.9	4664.7	4237.8	3739.8	3284.5	2862.0	2424.5	2168.6	1915.4
38°	4831.8	4675.3	4464.3	4210.6	3792.0	3393.3	2979.7	2611.1	2255.2	2037.6	1773.8
39°	4323.8	4191.7	3997.4	3769.2	3408.9	3032.5	2696.0	2401.8	2115.3	1905.4	1621.2
40°	3835.3	3725.3	3547.1	3351.1	3024.1	2714.3	2451.2	2217.4	1976.5	1764.4	1470.2
42.5°	2418.4	2364.0	2290.7	2264.1	2146.9	2066.4	1970.4	1835.5	1623.4	1384.7	1179.2
45°	1227.0	1192.0	1190.9	1245.3	1282.5	1286.4	1277.5	1243.1	1105.4	1037.1	854.4
47.5°	206.5	196.5	202.6	239.3	290.9	353.7	423.6	509.7	601.8	582.4	448.6
50°	68.3	66.1	64.4	66.1	63.8	65.5	64.4	62.7	56.6	59.4	61.1
51°	42.2	45.0	43.3	44.4	43.9	45.5	45.5	45.0	41.1	38.3	35.0
52°	28.9	29.4	30.0	30.5	30.0	30.5	31.1	31.1	30.0	28.9	26.1
53°	20.5	20.5	21.1	21.1	21.1	21.7	21.7	21.7	21.1	21.1	20.5
54°	14.4	15.0	15.0	15.0	15.0	15.5	15.5	15.5	16.1	15.5	15.5
55°	10.5	10.5	10.5	10.5	10.5	10.5	11.1	11.1	11.7	11.7	11.1
57.5°	4.4	4.4	3.9	4.4	4.4	4.4	4.4	5.0	5.0	5.6	5.6
60°	2.2	2.2	2.2	2.2	1.7	2.2	2.2	2.2	2.2	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.1	1.1	1.1	1.1	1.1	1.1	0.6	1.1	1.1	1.1	1.1
64°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6
66°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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°	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2.5°	88.8	89.9	88.3	89.4	87.2	87.2	85.5	86.1	85.5	84.4	84.4
5°	107.7	107.7	104.9	104.9	101.6	99.9	97.2	97.2	95.5	92.7	92.2
7.5°	147.7	142.1	136.0	133.8	127.1	122.7	117.7	115.5	110.5	106.0	102.7
10°	395.3	358.7	322.6	300.4	246.0	206.5	177.1	157.1	142.7	125.5	118.8
11°	557.4	510.8	463.6	417.5	364.2	310.4	276.5	223.2	189.3	151.0	132.7
12°	732.9	677.9	620.7	568.5	504.7	436.9	390.3	322.6	274.8	211.0	166.6
13°	912.7	850.6	782.3	727.9	655.7	578.0	504.7	441.9	382.5	299.2	234.3
14°	1086.0	1019.9	944.9	887.8	806.7	722.3	639.6	570.2	498.0	398.6	318.7
15°	1240.3	1193.1	1098.2	1041.5	954.4	864.4	772.3	697.9	612.4	501.9	409.7
17.5°	1563.4	1476.3	1360.2	1304.1	1217.5	1139.8	1039.9	972.7	867.2	750.6	649.0
20°	1944.3	1816.0	1658.9	1540.7	1390.8	1254.2	1128.2	1075.4	1009.9	930.5	835.6
21°	2048.7	1910.4	1738.9	1618.4	1464.6	1324.1	1175.9	1092.1	1020.4	951.6	872.2
22°	2124.7	1978.7	1798.3	1672.8	1514.6	1375.2	1223.6	1123.2	1027.7	949.9	878.3
23°	2189.1	2033.7	1846.0	1709.4	1544.0	1400.2	1248.1	1148.1	1042.7	946.0	868.3
24°	2247.4	2077.0	1879.9	1733.3	1559.0	1409.1	1251.4	1152.6	1049.9	948.3	855.0
25°	2291.3	2104.2	1899.3	1745.5	1562.3	1406.3	1243.6	1144.3	1041.5	941.1	840.0
26°	2321.3	2117.0	1904.9	1745.0	1555.7	1395.2	1227.5	1127.0	1021.6	915.0	815.6
27°	2330.7	2113.6	1897.1	1732.2	1539.0	1373.5	1200.3	1094.3	990.5	883.9	782.8
28°	2321.3	2100.3	1879.3	1707.2	1511.2	1338.0	1156.5	1051.0	957.2	849.4	742.8
29°	2295.2	2076.4	1846.6	1670.0	1467.4	1280.3	1100.4	1009.3	918.8	797.3	675.7
30°	2254.6	2033.1	1799.4	1615.6	1402.4	1207.5	1049.9	971.0	855.6	712.9	581.8
31°	2198.0	1977.0	1738.3	1543.4	1315.8	1136.5	1006.0	899.4	756.7	601.3	467.5
32°	2129.2	1910.4	1649.5	1447.4	1230.3	1080.4	928.3	790.0	631.8	469.1	340.9
33°	2055.3	1824.9	1547.9	1346.3	1157.0	1005.5	816.1	655.1	491.9	329.8	214.9
34°	1969.8	1720.0	1434.1	1244.7	1074.9	892.8	682.9	509.1	350.9	200.4	110.5
35°	1866.6	1590.6	1320.8	1157.0	957.2	743.4	536.9	381.4	219.9	101.0	60.0
36°	1741.6	1457.4	1222.5	1044.3	819.5	596.8	387.5	243.2	118.3	59.4	47.2
37°	1582.9	1348.0	1119.3	910.0	670.7	448.0	249.8	132.1	67.7	48.3	40.0
38°	1445.7	1247.0	1008.8	763.4	516.9	307.0	151.6	74.4	53.3	40.5	33.3
39°	1327.5	1138.7	863.9	609.0	368.6	186.0	83.3	56.6	44.4	33.3	28.3
40°	1224.2	984.4	710.6	456.9	237.1	103.3	60.0	47.2	36.1	27.8	22.8
42.5°	898.3	624.6	329.2	147.7	69.4	51.6	37.8	30.0	23.3	17.2	14.4
45°	533.5	280.9	99.4	60.5	43.9	32.8	23.9	18.9	14.4	10.5	8.9
47.5°	194.9	71.1	48.9	36.6	27.8	20.5	15.0	11.7	8.9	6.1	5.0
50°	40.0	34.4	26.6	21.7	16.1	12.2	8.9	6.7	5.0	3.9	3.3
51°	30.5	26.6	21.7	17.2	12.8	10.0	7.2	5.6	4.4	3.3	2.8
52°	23.3	20.5	16.7	13.9	10.5	7.8	5.6	4.4	3.3	2.2	2.2
53°	18.3	16.1	12.8	10.5	8.3	6.1	4.4	3.3	2.8	2.2	2.2
54°	13.9	12.2	10.0	8.3	6.7	5.0	3.3	2.8	2.2	2.2	1.7
55°	10.0	9.4	7.8	6.1	5.0	3.9	2.8	2.2	2.2	1.7	1.7
57.5°	5.0	4.4	3.9	3.3	2.8	2.2	1.7	1.7	1.7	1.7	1.1
60°	2.8	2.2	2.2	2.2	1.7	1.7	1.7	1.1	1.1	1.7	1.7



TEST NUMBER: P208832

CATALOG NUMBER: LDSQA6A20927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	1.1	1.1	1.1	1.1	1.7	1.1	1.1	1.1	1.7	1.7	1.7
64°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
65°	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
66°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
75°	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
77.5°	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
80°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
82.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
85°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
87.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7
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: P208832

CATALOG NUMBER: LDSQA6A20927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2.5°	82.7	83.8	82.7	81.6	81.1	81.1	80.5	78.8	79.4	78.8	78.8
5°	89.4	89.9	87.7	86.1	84.9	83.8	82.7	80.5	79.9	79.4	78.8
7.5°	98.3	97.7	93.3	90.5	87.7	85.5	83.3	80.5	79.4	77.7	76.6
10°	111.0	107.2	99.9	94.9	91.1	86.6	83.3	78.8	76.6	74.4	72.7
11°	116.6	111.0	103.8	97.2	92.2	87.2	83.3	77.7	75.0	72.7	70.5
12°	133.8	118.8	107.2	99.9	93.3	87.7	82.7	77.2	73.8	70.5	68.3
13°	173.2	138.2	114.4	101.6	94.9	88.3	82.2	76.1	72.2	68.3	66.1
14°	237.6	177.7	132.1	107.7	95.5	88.3	81.6	75.0	70.5	66.6	63.8
15°	314.8	238.7	168.2	122.7	97.7	87.7	80.5	73.3	68.3	63.8	61.1
17.5°	530.2	430.8	323.1	229.9	142.1	96.0	76.1	67.7	61.6	56.6	53.3
20°	710.6	596.3	474.7	358.7	246.0	153.2	87.7	61.6	54.4	48.9	45.5
21°	750.1	642.9	514.1	392.5	275.9	177.7	99.4	61.6	51.6	46.1	42.7
22°	770.6	667.3	538.5	414.7	296.5	194.9	111.6	62.2	48.9	43.3	39.4
23°	767.3	672.9	548.0	421.4	305.9	203.2	116.6	62.7	46.1	40.5	36.6
24°	747.3	657.9	538.5	413.6	303.1	201.0	114.9	61.6	43.3	37.8	34.4
25°	722.3	628.5	513.0	392.5	285.4	187.1	106.6	57.7	41.1	35.5	32.2
26°	694.0	599.1	477.5	355.3	256.5	163.8	89.9	51.1	37.8	32.8	30.0
27°	660.1	560.7	433.6	315.9	216.5	132.1	72.2	43.3	35.0	30.0	27.8
28°	609.6	506.3	377.5	263.7	173.2	99.9	54.4	37.2	32.2	27.8	25.5
29°	534.1	429.7	307.6	206.0	127.1	68.8	41.6	33.3	28.9	25.0	23.3
30°	439.7	339.8	228.2	141.6	81.6	46.6	33.9	29.4	25.5	22.8	21.7
31°	333.1	241.5	147.7	81.6	48.9	34.4	30.0	25.5	22.8	20.5	20.0
32°	219.9	146.0	78.3	47.2	35.5	30.0	26.1	22.8	20.5	18.9	18.3
33°	117.7	67.2	45.0	35.5	30.0	26.1	22.8	20.0	18.3	17.2	16.7
34°	60.0	43.9	36.6	30.5	25.5	22.8	20.0	17.8	16.7	15.5	15.0
35°	44.4	37.8	31.6	26.1	22.2	20.0	17.8	16.1	15.0	13.9	13.9
36°	37.8	31.6	26.1	22.8	20.0	17.8	16.1	13.9	13.3	12.8	12.2
37°	31.6	27.2	22.8	19.4	17.2	15.5	13.9	12.8	11.7	11.1	11.1
38°	26.6	23.3	19.4	16.7	15.0	13.9	12.2	11.1	10.5	10.0	10.0
39°	22.2	19.4	16.7	14.4	12.8	11.7	10.5	10.0	9.4	8.9	8.9
40°	18.3	16.7	13.9	12.2	11.1	10.0	9.4	8.9	8.3	7.8	8.3
42.5°	11.7	10.0	8.9	8.3	7.2	7.2	6.7	6.1	6.1	6.1	6.1
45°	6.7	6.1	5.6	5.6	5.0	5.0	5.0	4.4	5.0	5.0	5.0
47.5°	3.9	3.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9	3.9
50°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8	2.8
51°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8
52°	2.2	2.2	2.2	1.7	1.7	1.7	1.7	1.7	2.2	2.2	2.2
53°	1.7	2.2	1.7	1.7	1.7	1.7	1.7	1.7	2.2	2.2	2.2
54°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.2	2.2
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.2	2.2
57.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.2
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.2



TEST NUMBER: P208832

CATALOG NUMBER: LDSQA6A20927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.7	1.7	1.7	1.7	1.7	2.2	1.7	1.7	1.7	2.2	2.2
64°	1.7	1.7	1.7	1.7	1.7	2.2	1.7	1.7	1.7	1.7	2.2
65°	1.7	1.7	2.2	2.2	2.2	2.2	1.7	1.7	1.7	1.7	2.2
66°	1.7	1.7	2.2	2.2	2.2	2.2	2.2	1.7	1.7	2.2	2.2
67.5°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	1.7	2.2	2.2	2.2
70°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.7	2.2	2.2	2.2	2.2	2.2	2.2	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: P208832

CATALOG NUMBER: LDSQA6A20927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2.5°	77.2	76.6	76.1	76.1	71.6	69.4	66.6	66.6
5°	76.1	75.5	74.4	73.3	66.1	62.7	59.4	58.9
7.5°	73.8	72.2	70.5	69.4	60.5	56.6	53.3	52.7
10°	69.4	67.2	65.5	64.4	55.0	51.1	48.3	48.3
11°	67.2	65.0	63.3	61.6	52.2	48.9	46.6	46.6
12°	65.0	62.7	60.5	59.4	50.0	47.2	45.0	44.4
13°	62.7	60.0	58.3	56.6	47.7	45.0	43.3	43.3
14°	60.5	57.7	55.5	53.9	45.5	42.7	41.6	41.6
15°	57.2	54.4	52.7	51.1	42.7	41.1	40.0	40.5
17.5°	49.4	47.2	45.5	43.9	37.2	36.6	36.6	37.2
20°	42.2	40.0	38.3	37.2	32.2	32.8	33.3	34.4
21°	39.4	37.2	35.5	34.4	30.5	31.1	32.2	33.3
22°	36.6	35.0	33.3	32.2	28.9	29.4	31.1	32.2
23°	33.9	32.2	31.1	30.0	27.2	28.3	30.0	31.1
24°	31.6	30.0	28.9	27.8	25.5	26.6	28.9	30.0
25°	29.4	27.8	26.6	26.1	23.9	25.5	27.8	28.9
26°	27.2	26.1	25.0	24.4	22.8	24.4	26.6	28.3
27°	25.0	23.9	23.3	22.8	21.1	23.3	25.5	27.2
28°	23.3	22.2	21.7	21.1	20.0	22.2	25.0	26.1
29°	21.7	20.5	20.0	19.4	18.9	21.1	23.9	25.5
30°	20.0	19.4	18.3	18.3	17.8	20.5	22.8	24.4
31°	18.3	17.8	17.2	16.7	16.7	19.4	22.2	23.9
32°	17.2	16.7	16.1	15.5	16.1	18.3	21.1	23.3
33°	15.5	15.0	15.0	14.4	15.0	17.8	20.5	22.8
34°	13.9	13.9	13.3	13.3	14.4	17.2	20.0	21.7
35°	12.8	12.2	12.2	12.2	13.9	16.1	19.4	21.1
36°	11.7	11.7	11.1	11.1	13.3	15.5	18.9	20.5
37°	10.5	10.5	10.5	10.0	12.2	15.0	17.8	20.0
38°	9.4	9.4	9.4	9.4	11.7	14.4	17.8	20.0
39°	8.3	8.3	8.9	8.9	11.1	13.9	16.7	19.4
40°	7.8	7.8	7.8	7.8	10.5	13.3	16.1	18.9
42.5°	6.1	6.1	6.7	6.7	9.4	12.2	15.0	17.2
45°	5.0	5.0	5.6	5.6	8.3	11.1	13.3	16.1
47.5°	3.9	3.9	4.4	4.4	7.2	10.0	12.2	14.4
50°	2.8	3.3	3.3	3.9	6.7	8.9	10.5	12.8
51°	2.8	2.8	3.3	3.3	6.1	8.3	10.0	12.2
52°	2.8	2.8	3.3	3.3	5.6	7.8	9.4	11.1
53°	2.2	2.8	2.8	3.3	5.6	7.8	8.9	10.5
54°	2.2	2.2	2.8	2.8	5.6	7.2	8.9	9.4
55°	2.2	2.2	2.8	2.8	5.0	7.2	8.3	8.9
57.5°	2.2	2.2	2.2	2.2	4.4	6.1	7.2	7.2
60°	2.2	2.2	2.2	2.2	4.4	5.6	6.7	5.0



TEST NUMBER: P208832

CATALOG NUMBER: LDSQA6A20927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.2	2.2	2.2	2.2	3.9	5.0	5.0	3.9
64°	2.2	2.2	2.2	2.2	3.9	5.0	5.0	3.9
65°	2.2	2.2	2.2	2.2	3.9	4.4	4.4	3.3
66°	2.2	2.2	2.2	2.2	3.9	4.4	4.4	3.3
67.5°	2.2	2.2	2.2	2.2	3.3	3.9	3.9	3.3
70°	2.2	2.2	2.2	2.2	3.3	3.9	3.3	2.8
72.5°	2.2	2.2	2.2	2.2	3.3	3.3	2.8	2.2
75°	2.2	2.2	2.2	2.2	2.8	2.8	2.2	2.2
77.5°	2.2	2.2	2.2	2.2	2.8	2.8	2.2	1.7
80°	2.2	2.2	2.2	2.2	2.8	2.2	1.7	1.1
82.5°	2.2	2.2	2.2	2.2	2.2	1.7	1.1	1.1
85°	2.2	2.2	2.2	2.2	2.2	1.7	1.1	0.6
87.5°	2.2	2.2	2.2	2.2	2.2	1.7	0.6	0.6
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°	2.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.2	2.2
62°	1.7	1.7	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1





61°	2.2	1.7	1.7	1.7	1.7	1.7	1.7	1.1	1.1	1.7	1.7
62°	1.7	1.7	1.7	1.7	1.7	1.7	1.1	1.1	1.1	1.7	1.7





61°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.2
62°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7





61°	2.2	2.2	2.2	2.2	3.9	5.6	6.1	4.4
62°	2.2	2.2	2.2	2.2	3.9	5.0	5.6	3.9



(END OF REPORT)