

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: P208824

Luminaire Tested: **LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208824
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: LDSQA6A15927D010TE 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: 978.5 lumens
Efficiency: N/A
Efficacy: 44.9 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

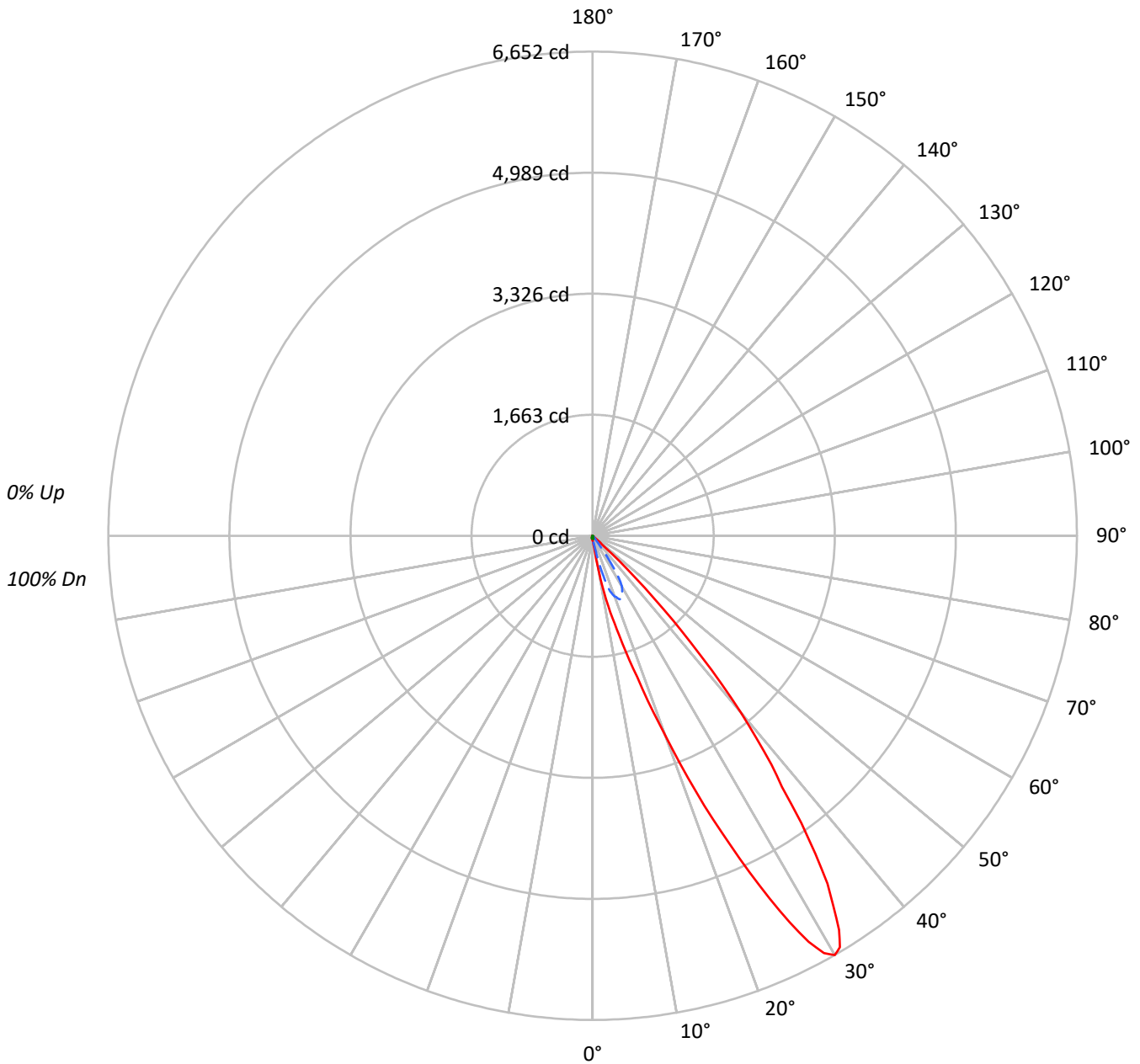
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

Luminous Intensity Polar Plot





TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

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	77	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°	2764	2764	2764
5°	4257	2615	2100
10°	22839	2326	1744
15°	62979	1881	1493
20°	133736	1407	1301
25°	242080	1021	1131
30°	330689	751	1004
35°	280309	531	915
40°	177934	360	877
45°	61669	280	810
50°	3778	214	703
55°	653	173	548
60°	155	155	353
65°	92	183	275
70°	113	227	290
75°	0	299	299
80°	0	446	223
85°	0	889	247



TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.8
10°-20°	100.6	10.3
20°-30°	349.7	35.7
30°-40°	383.4	39.2
40°-50°	126.4	12.9
50°-60°	5.3	0.5
60°-70°	2.3	0.2
70°-80°	1.8	0.2
80°-90°	1.2	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°	458.3	46.8
0°-40°	841.6	86.0
0°-60°	973.3	99.5
0°-90°	978.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	978.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	98	80	60	52	49	21
15°	1413	576	42	34	34	470
25°	5096	944	22	21	24	2385
35°	5333	315	10	13	17	3205
45°	1013	16	5	9	13	892
55°	9	2	2	6	7	12
65°	1	1	2	4	3	1
75°	0	1	2	2	2	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	76.1	75.6	75.6	75.6	75.2	74.2	74.2	74.7	74.7	74.2	74.7
5°	98.5	97.6	97.2	96.7	94.9	94.4	92.6	93.9	92.6	91.2	91.2
7.5°	180.6	180.1	172.3	167.3	158.6	148.5	145.7	146.2	139.8	133.8	130.2
10°	522.4	523.4	500.4	509.6	476.6	463.3	438.1	429.0	406.0	386.8	363.4
11°	698.9	698.0	669.1	677.8	644.3	625.6	597.1	582.5	553.6	534.4	505.0
12°	889.5	861.6	851.9	860.2	825.8	801.1	766.7	747.9	712.2	692.5	657.2
13°	1078.3	1070.1	1038.0	1045.8	1010.5	956.4	942.2	919.8	878.1	854.7	815.3
14°	1241.9	1211.7	1201.6	1206.7	1171.8	1120.5	1106.3	1099.4	1035.3	1010.1	966.1
15°	1412.9	1376.2	1362.0	1343.2	1322.6	1261.7	1241.0	1227.7	1161.3	1119.1	1090.7
17.5°	2034.3	1982.5	1947.7	1905.1	1859.7	1747.0	1700.2	1655.8	1539.4	1483.5	1399.1
20°	2918.8	2839.5	2750.2	2657.6	2568.7	2369.8	2254.3	2130.6	1971.5	1838.6	1737.8
21°	3346.8	3252.0	3144.3	3074.6	2907.3	2664.5	2508.6	2332.2	2127.8	1963.3	1836.3
22°	3795.5	3687.3	3597.5	3494.9	3263.0	2973.3	2777.7	2551.3	2286.8	2083.8	1923.4
23°	4231.3	4109.0	4001.3	3876.2	3608.1	3272.6	3040.3	2770.3	2451.8	2199.3	2000.9
24°	4647.4	4520.5	4396.8	4232.2	3925.2	3554.4	3281.3	2973.8	2609.0	2310.2	2073.7
25°	5095.7	4947.2	4787.2	4537.0	4224.9	3805.6	3491.2	3150.7	2748.8	2412.4	2135.1
26°	5542.0	5368.8	5129.1	4874.3	4501.3	4032.0	3673.6	3294.1	2867.9	2494.4	2180.5
27°	5960.9	5775.3	5493.9	5145.1	4749.2	4225.8	3823.9	3407.8	2950.9	2547.6	2201.6
28°	6319.3	6114.9	5801.4	5404.1	4933.9	4368.4	3923.4	3474.7	2990.8	2567.8	2204.3
29°	6555.3	6351.3	6013.6	5572.3	5038.4	4438.9	3962.8	3489.4	2988.5	2555.8	2185.6
30°	6651.5	6445.8	6100.7	5627.3	5058.1	4440.3	3946.7	3458.7	2948.6	2518.3	2148.4
31°	6595.2	6397.6	6047.5	5570.9	4988.4	4376.1	3879.4	3381.2	2869.3	2451.8	2093.0
32°	6387.1	6206.1	5869.7	5416.0	4845.0	4247.4	3763.4	3266.6	2757.5	2365.2	2023.8
33°	6070.0	5919.2	5575.5	5157.1	4653.4	4089.3	3622.3	3150.2	2622.8	2259.3	1950.0
34°	5766.1	5543.4	5238.6	4867.0	4407.8	3883.9	3447.2	2966.9	2479.8	2142.9	1865.7
35°	5333.0	5133.7	4852.3	4534.3	4121.8	3633.3	3196.5	2788.2	2319.8	2030.7	1777.2
36°	4876.1	4700.6	4496.2	4211.2	3816.6	3371.6	2972.0	2568.7	2155.3	1905.5	1683.7
37°	4317.9	4278.5	4088.3	3850.5	3498.1	3087.0	2711.2	2362.4	2001.3	1790.1	1581.1
38°	3988.4	3859.2	3685.1	3475.6	3130.1	2801.0	2459.6	2155.3	1861.5	1681.9	1464.2
39°	3569.1	3460.0	3299.6	3111.3	2813.9	2503.1	2225.4	1982.5	1746.1	1572.8	1338.2
40°	3165.8	3075.1	2928.0	2766.2	2496.3	2240.5	2023.3	1830.4	1631.5	1456.4	1213.5
42.5°	1996.3	1951.4	1890.9	1868.9	1772.2	1705.7	1626.4	1515.1	1340.0	1143.0	973.4
45°	1012.8	983.9	983.0	1027.9	1058.6	1061.8	1054.5	1026.1	912.4	856.1	705.3
47.5°	170.5	162.2	167.3	197.5	240.1	291.9	349.7	420.7	496.8	480.7	370.3
50°	56.4	54.5	53.2	54.5	52.7	54.1	53.2	51.8	46.7	49.0	50.4
51°	34.8	37.1	35.7	36.7	36.2	37.6	37.6	37.1	33.9	31.6	28.9
52°	23.8	24.3	24.7	25.2	24.7	25.2	25.7	25.7	24.7	23.8	21.5
53°	17.0	17.0	17.4	17.4	17.4	17.9	17.9	17.9	17.4	17.4	17.0
54°	11.9	12.4	12.4	12.4	12.4	12.8	12.8	12.8	13.3	12.8	12.8
55°	8.7	8.7	8.7	8.7	8.7	8.7	9.2	9.2	9.6	9.6	9.2
57.5°	3.7	3.7	3.2	3.7	3.7	3.7	3.7	4.1	4.1	4.6	4.6
60°	1.8	1.8	1.8	1.8	1.4	1.8	1.8	1.8	1.8	2.3	2.3



TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.9	0.9	0.9	0.9
64°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5
66°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	73.3	74.2	72.9	73.8	72.0	72.0	70.6	71.0	70.6	69.7	69.7
5°	88.9	88.9	86.6	86.6	83.9	82.5	80.2	80.2	78.8	76.5	76.1
7.5°	121.9	117.3	112.3	110.4	104.9	101.3	97.2	95.3	91.2	87.5	84.8
10°	326.3	296.1	266.3	247.9	203.0	170.5	146.2	129.7	117.8	103.6	98.1
11°	460.1	421.6	382.7	344.6	300.6	256.2	228.2	184.2	156.3	124.7	109.5
12°	604.9	559.6	512.4	469.3	416.6	360.7	322.2	266.3	226.9	174.1	137.5
13°	753.4	702.1	645.7	600.8	541.2	477.1	416.6	364.8	315.8	247.0	193.4
14°	896.4	841.9	780.0	732.8	665.9	596.2	527.9	470.7	411.1	329.0	263.1
15°	1023.8	984.9	906.5	859.7	787.8	713.5	637.5	576.1	505.5	414.3	338.2
17.5°	1290.5	1218.6	1122.8	1076.5	1005.0	940.9	858.4	802.9	715.8	619.6	535.7
20°	1604.9	1499.0	1369.4	1271.7	1148.0	1035.3	931.2	887.7	833.6	768.1	689.7
21°	1691.1	1577.0	1435.3	1335.9	1209.0	1093.0	970.6	901.4	842.3	785.5	720.0
22°	1753.8	1633.3	1484.4	1380.8	1250.2	1135.2	1010.1	927.1	848.3	784.1	725.0
23°	1807.0	1678.7	1523.8	1411.1	1274.5	1155.8	1030.2	947.7	860.7	780.9	716.8
24°	1855.1	1714.4	1551.7	1430.8	1286.9	1163.1	1033.0	951.4	866.6	782.7	705.8
25°	1891.3	1736.9	1567.8	1440.8	1289.6	1160.8	1026.6	944.5	859.7	776.8	693.4
26°	1916.1	1747.4	1572.4	1440.4	1284.1	1151.7	1013.3	930.3	843.2	755.3	673.2
27°	1923.9	1744.7	1566.0	1429.8	1270.4	1133.8	990.8	903.3	817.6	729.6	646.2
28°	1916.1	1733.7	1551.3	1409.2	1247.4	1104.5	954.6	867.5	790.1	701.2	613.2
29°	1894.5	1714.0	1524.2	1378.5	1211.2	1056.8	908.3	833.2	758.5	658.1	557.7
30°	1861.1	1678.2	1485.3	1333.6	1157.6	996.8	866.6	801.5	706.2	588.4	480.3
31°	1814.3	1631.9	1434.9	1274.0	1086.1	938.1	830.4	742.4	624.6	496.3	385.9
32°	1757.5	1577.0	1361.6	1194.7	1015.6	891.8	766.2	652.1	521.5	387.2	281.4
33°	1696.6	1506.4	1277.7	1111.3	955.1	830.0	673.7	540.8	406.0	272.2	177.4
34°	1626.0	1419.8	1183.7	1027.5	887.2	736.9	563.7	420.2	289.6	165.4	91.2
35°	1540.7	1313.0	1090.3	955.1	790.1	613.6	443.2	314.8	181.5	83.4	49.5
36°	1437.6	1203.0	1009.1	862.0	676.4	492.7	319.9	200.7	97.6	49.0	39.0
37°	1306.6	1112.7	923.9	751.1	553.6	369.8	206.2	109.1	55.9	39.9	33.0
38°	1193.4	1029.3	832.7	630.1	426.7	253.4	125.1	61.4	44.0	33.5	27.5
39°	1095.8	939.9	713.1	502.7	304.3	153.5	68.7	46.7	36.7	27.5	23.4
40°	1010.5	812.5	586.6	377.2	195.7	85.2	49.5	39.0	29.8	22.9	18.8
42.5°	741.5	515.6	271.8	121.9	57.3	42.6	31.2	24.7	19.2	14.2	11.9
45°	440.4	231.9	82.0	50.0	36.2	27.0	19.7	15.6	11.9	8.7	7.3
47.5°	160.9	58.7	40.3	30.2	22.9	17.0	12.4	9.6	7.3	5.0	4.1
50°	33.0	28.4	22.0	17.9	13.3	10.1	7.3	5.5	4.1	3.2	2.7
51°	25.2	22.0	17.9	14.2	10.5	8.2	6.0	4.6	3.7	2.7	2.3
52°	19.2	17.0	13.7	11.5	8.7	6.4	4.6	3.7	2.7	1.8	1.8
53°	15.1	13.3	10.5	8.7	6.9	5.0	3.7	2.7	2.3	1.8	1.8
54°	11.5	10.1	8.2	6.9	5.5	4.1	2.7	2.3	1.8	1.8	1.4
55°	8.2	7.8	6.4	5.0	4.1	3.2	2.3	1.8	1.8	1.4	1.4
57.5°	4.1	3.7	3.2	2.7	2.3	1.8	1.4	1.4	1.4	1.4	0.9
60°	2.3	1.8	1.8	1.8	1.4	1.4	1.4	0.9	0.9	1.4	1.4



TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	0.9	0.9	0.9	0.9	1.4	0.9	0.9	0.9	1.4	1.4	1.4
64°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
65°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
66°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
75°	0.5	0.5	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
77.5°	0.5	0.5	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
80°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
82.5°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
85°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4
87.5°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	1.4	1.4	1.4	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



TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	68.3	69.2	68.3	67.4	66.9	66.9	66.5	65.1	65.5	65.1	65.1
5°	73.8	74.2	72.4	71.0	70.1	69.2	68.3	66.5	66.0	65.5	65.1
7.5°	81.1	80.7	77.0	74.7	72.4	70.6	68.7	66.5	65.5	64.2	63.2
10°	91.7	88.4	82.5	78.4	75.2	71.5	68.7	65.1	63.2	61.4	60.0
11°	96.2	91.7	85.7	80.2	76.1	72.0	68.7	64.2	61.9	60.0	58.2
12°	110.4	98.1	88.4	82.5	77.0	72.4	68.3	63.7	61.0	58.2	56.4
13°	143.0	114.1	94.4	83.9	78.4	72.9	67.8	62.8	59.6	56.4	54.5
14°	196.1	146.7	109.1	88.9	78.8	72.9	67.4	61.9	58.2	55.0	52.7
15°	259.8	197.1	138.9	101.3	80.7	72.4	66.5	60.5	56.4	52.7	50.4
17.5°	437.7	355.6	266.7	189.7	117.3	79.3	62.8	55.9	50.9	46.7	44.0
20°	586.6	492.2	391.8	296.1	203.0	126.5	72.4	50.9	44.9	40.3	37.6
21°	619.1	530.7	424.4	324.0	227.8	146.7	82.0	50.9	42.6	38.0	35.3
22°	636.1	550.9	444.5	342.3	244.7	160.9	92.1	51.3	40.3	35.7	32.5
23°	633.3	555.4	452.3	347.8	252.5	167.7	96.2	51.8	38.0	33.5	30.2
24°	616.8	543.1	444.5	341.4	250.2	165.9	94.9	50.9	35.7	31.2	28.4
25°	596.2	518.8	423.5	324.0	235.6	154.4	88.0	47.7	33.9	29.3	26.6
26°	572.9	494.5	394.1	293.3	211.7	135.2	74.2	42.2	31.2	27.0	24.7
27°	544.9	462.9	357.9	260.8	178.7	109.1	59.6	35.7	28.9	24.7	22.9
28°	503.2	418.0	311.6	217.7	143.0	82.5	44.9	30.7	26.6	22.9	21.1
29°	440.9	354.7	253.9	170.0	104.9	56.8	34.4	27.5	23.8	20.6	19.2
30°	363.0	280.5	188.4	116.9	67.4	38.5	28.0	24.3	21.1	18.8	17.9
31°	275.0	199.4	121.9	67.4	40.3	28.4	24.7	21.1	18.8	17.0	16.5
32°	181.5	120.5	64.6	39.0	29.3	24.7	21.5	18.8	17.0	15.6	15.1
33°	97.2	55.5	37.1	29.3	24.7	21.5	18.8	16.5	15.1	14.2	13.7
34°	49.5	36.2	30.2	25.2	21.1	18.8	16.5	14.7	13.7	12.8	12.4
35°	36.7	31.2	26.1	21.5	18.3	16.5	14.7	13.3	12.4	11.5	11.5
36°	31.2	26.1	21.5	18.8	16.5	14.7	13.3	11.5	11.0	10.5	10.1
37°	26.1	22.5	18.8	16.0	14.2	12.8	11.5	10.5	9.6	9.2	9.2
38°	22.0	19.2	16.0	13.7	12.4	11.5	10.1	9.2	8.7	8.2	8.2
39°	18.3	16.0	13.7	11.9	10.5	9.6	8.7	8.2	7.8	7.3	7.3
40°	15.1	13.7	11.5	10.1	9.2	8.2	7.8	7.3	6.9	6.4	6.9
42.5°	9.6	8.2	7.3	6.9	6.0	6.0	5.5	5.0	5.0	5.0	5.0
45°	5.5	5.0	4.6	4.6	4.1	4.1	4.1	3.7	4.1	4.1	4.1
47.5°	3.2	3.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2	3.2
50°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3	2.3
51°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3
52°	1.8	1.8	1.8	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8
53°	1.4	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8
54°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8
55°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8
57.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8



TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.4	1.4	1.4	1.4	1.4	1.8	1.4	1.4	1.4	1.8	1.8
64°	1.4	1.4	1.4	1.4	1.4	1.8	1.4	1.4	1.4	1.4	1.8
65°	1.4	1.4	1.8	1.8	1.8	1.8	1.4	1.4	1.4	1.4	1.8
66°	1.4	1.4	1.8	1.8	1.8	1.8	1.8	1.4	1.4	1.8	1.8
67.5°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.4	1.8	1.8	1.8
70°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	63.7	63.2	62.8	62.8	59.1	57.3	55.0	55.0
5°	62.8	62.3	61.4	60.5	54.5	51.8	49.0	48.6
7.5°	61.0	59.6	58.2	57.3	50.0	46.7	44.0	43.5
10°	57.3	55.5	54.1	53.2	45.4	42.2	39.9	39.9
11°	55.5	53.6	52.2	50.9	43.1	40.3	38.5	38.5
12°	53.6	51.8	50.0	49.0	41.2	39.0	37.1	36.7
13°	51.8	49.5	48.1	46.7	39.4	37.1	35.7	35.7
14°	50.0	47.7	45.8	44.5	37.6	35.3	34.4	34.4
15°	47.2	44.9	43.5	42.2	35.3	33.9	33.0	33.5
17.5°	40.8	39.0	37.6	36.2	30.7	30.2	30.2	30.7
20°	34.8	33.0	31.6	30.7	26.6	27.0	27.5	28.4
21°	32.5	30.7	29.3	28.4	25.2	25.7	26.6	27.5
22°	30.2	28.9	27.5	26.6	23.8	24.3	25.7	26.6
23°	28.0	26.6	25.7	24.7	22.5	23.4	24.7	25.7
24°	26.1	24.7	23.8	22.9	21.1	22.0	23.8	24.7
25°	24.3	22.9	22.0	21.5	19.7	21.1	22.9	23.8
26°	22.5	21.5	20.6	20.2	18.8	20.2	22.0	23.4
27°	20.6	19.7	19.2	18.8	17.4	19.2	21.1	22.5
28°	19.2	18.3	17.9	17.4	16.5	18.3	20.6	21.5
29°	17.9	17.0	16.5	16.0	15.6	17.4	19.7	21.1
30°	16.5	16.0	15.1	15.1	14.7	17.0	18.8	20.2
31°	15.1	14.7	14.2	13.7	13.7	16.0	18.3	19.7
32°	14.2	13.7	13.3	12.8	13.3	15.1	17.4	19.2
33°	12.8	12.4	12.4	11.9	12.4	14.7	17.0	18.8
34°	11.5	11.5	11.0	11.0	11.9	14.2	16.5	17.9
35°	10.5	10.1	10.1	10.1	11.5	13.3	16.0	17.4
36°	9.6	9.6	9.2	9.2	11.0	12.8	15.6	17.0
37°	8.7	8.7	8.7	8.2	10.1	12.4	14.7	16.5
38°	7.8	7.8	7.8	7.8	9.6	11.9	14.7	16.5
39°	6.9	6.9	7.3	7.3	9.2	11.5	13.7	16.0
40°	6.4	6.4	6.4	6.4	8.7	11.0	13.3	15.6
42.5°	5.0	5.0	5.5	5.5	7.8	10.1	12.4	14.2
45°	4.1	4.1	4.6	4.6	6.9	9.2	11.0	13.3
47.5°	3.2	3.2	3.7	3.7	6.0	8.2	10.1	11.9
50°	2.3	2.7	2.7	3.2	5.5	7.3	8.7	10.5
51°	2.3	2.3	2.7	2.7	5.0	6.9	8.2	10.1
52°	2.3	2.3	2.7	2.7	4.6	6.4	7.8	9.2
53°	1.8	2.3	2.3	2.7	4.6	6.4	7.3	8.7
54°	1.8	1.8	2.3	2.3	4.6	6.0	7.3	7.8
55°	1.8	1.8	2.3	2.3	4.1	6.0	6.9	7.3
57.5°	1.8	1.8	1.8	1.8	3.7	5.0	6.0	6.0
60°	1.8	1.8	1.8	1.8	3.7	4.6	5.5	4.1



TEST NUMBER: P208824

CATALOG NUMBER: LDSQA6A15927D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.8	1.8	1.8	1.8	3.2	4.1	4.1	3.2
64°	1.8	1.8	1.8	1.8	3.2	4.1	4.1	3.2
65°	1.8	1.8	1.8	1.8	3.2	3.7	3.7	2.7
66°	1.8	1.8	1.8	1.8	3.2	3.7	3.7	2.7
67.5°	1.8	1.8	1.8	1.8	2.7	3.2	3.2	2.7
70°	1.8	1.8	1.8	1.8	2.7	3.2	2.7	2.3
72.5°	1.8	1.8	1.8	1.8	2.7	2.7	2.3	1.8
75°	1.8	1.8	1.8	1.8	2.3	2.3	1.8	1.8
77.5°	1.8	1.8	1.8	1.8	2.3	2.3	1.8	1.4
80°	1.8	1.8	1.8	1.8	2.3	1.8	1.4	0.9
82.5°	1.8	1.8	1.8	1.8	1.8	1.4	0.9	0.9
85°	1.8	1.8	1.8	1.8	1.8	1.4	0.9	0.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.4	0.5	0.5
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°	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8
62°	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9





61°	1.8	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	1.4	1.4
62°	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	1.4	1.4





61°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8
62°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4





61°	1.8	1.8	1.8	1.8	3.2	4.6	5.0	3.7
62°	1.8	1.8	1.8	1.8	3.2	4.1	4.6	3.2



(END OF REPORT)