

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: P208868

Luminaire Tested: **LDSQA6A30827D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29056)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A30827D010TE LARL20NF 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 20° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2608.5 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.63 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

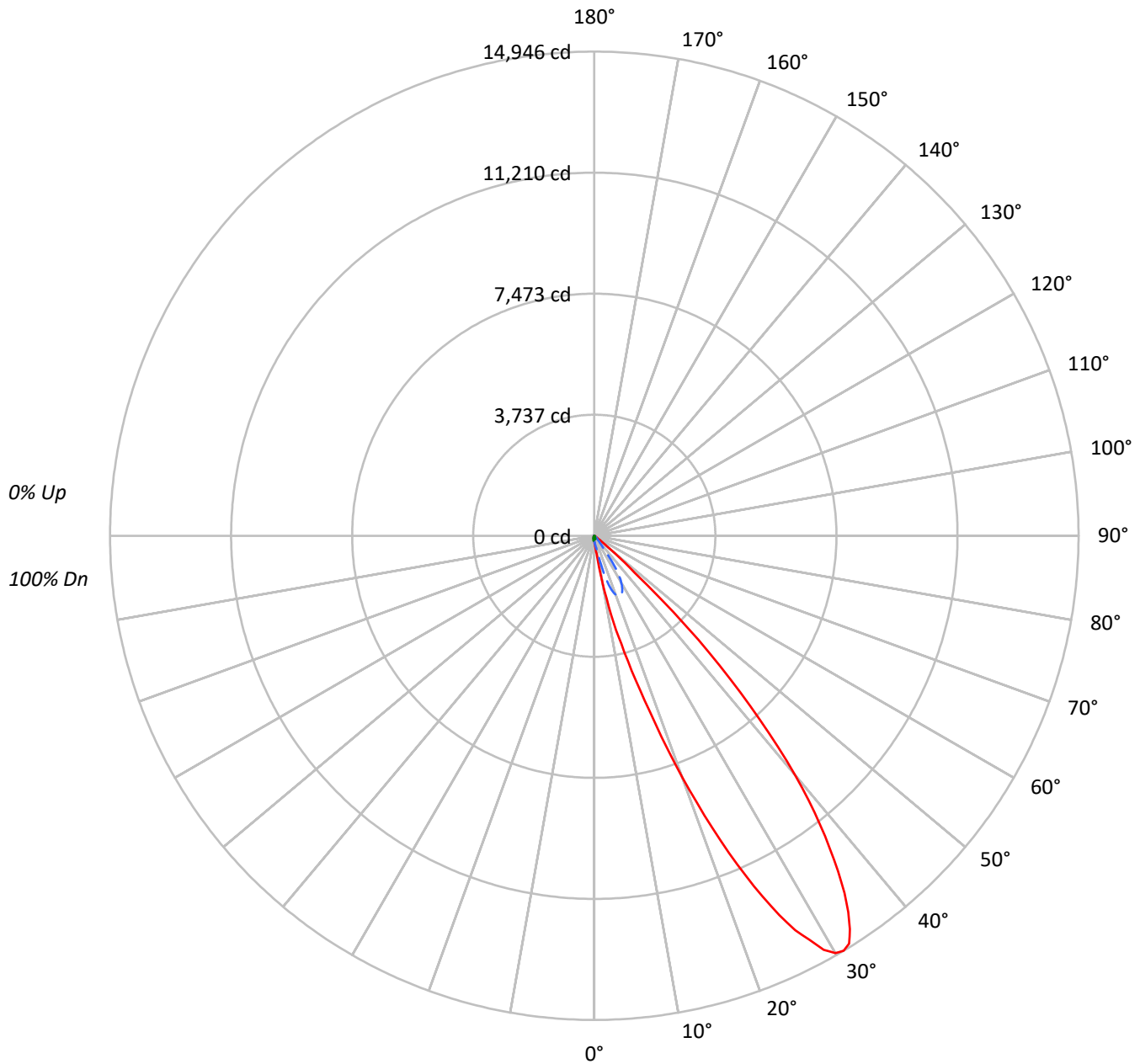
Input Watts (W): 44.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	94	90		95	91	88		92	89	86		89	86	84
3	99	91	85	80		96	89	84	80		87	82	78		84	80	77		82	79	76
4	92	83	76	71		90	82	75	71		79	74	70		77	73	69		75	71	68
5	86	76	69	63		84	75	68	63		73	67	62		71	66	62		69	65	61
6	80	69	62	57		78	68	61	56		67	61	56		65	60	56		64	59	55
7	75	63	56	51		73	63	56	51		61	55	50		60	54	50		59	54	50
8	70	58	51	46		68	57	50	46		56	50	45		55	49	45		54	49	45
9	65	53	46	41		64	53	46	41		52	45	41		51	45	41		50	44	41
10	61	49	42	37		60	48	42	37		48	41	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7573	7573	7573
5°	15118	7343	4966
10°	67980	6422	3712
15°	178218	5255	2986
20°	362863	3982	2520
25°	583881	2945	2138
30°	739566	2088	1889
35°	707459	1367	1682
40°	542453	843	1574
45°	275886	548	1461
50°	42306	402	1273
55°	5547	375	901
60°	603	344	603
65°	102	408	509
70°	126	629	629
75°	0	832	499
80°	0	992	496
85°	0	1976	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	0.9
10°-20°	257.9	9.9
20°-30°	844.5	32.4
30°-40°	1028.0	39.4
40°-50°	417.6	16.0
50°-60°	24.8	1.0
60°-70°	4.8	0.2
70°-80°	4.3	0.2
80°-90°	3.1	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°	1125.9	43.2
0°-40°	2153.9	82.6
0°-60°	2596.3	99.5
0°-90°	2608.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	176	176	176	176	176	
5°	350	267	170	126	115	66
15°	3998	1333	118	72	67	1301
25°	12290	1984	62	42	45	5648
35°	13460	792	26	25	32	8141
45°	4531	90	9	16	24	3476
55°	74	9	5	11	12	128
65°	1	3	4	7	5	2
75°	0	3	5	6	3	0
85°	0	3	4	4	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°	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9
2.5°	247.8	236.8	241.8	240.8	236.8	237.8	239.8	235.8	237.8	231.8	232.8
5°	349.8	333.8	342.8	332.8	337.8	332.8	332.8	326.8	321.8	320.8	315.8
7.5°	610.6	571.6	583.6	540.6	547.6	533.6	520.6	506.7	482.7	470.7	444.7
10°	1554.9	1445.0	1471.0	1377.1	1375.1	1342.1	1281.1	1239.1	1150.2	1087.3	997.3
11°	1966.6	1891.7	1914.7	1811.8	1806.8	1761.8	1689.8	1577.9	1527.9	1444.0	1332.1
12°	2504.3	2378.4	2392.4	2279.4	2268.4	2208.5	2127.5	1989.6	1929.7	1827.7	1695.8
13°	2992.9	2881.0	2882.0	2759.1	2746.1	2670.2	2581.2	2414.3	2347.4	2233.5	2074.6
14°	3441.6	3356.7	3339.7	3273.7	3203.8	3114.9	3020.9	2832.0	2758.1	2630.2	2448.3
15°	3998.2	3832.4	3799.4	3716.4	3631.5	3519.6	3404.7	3188.8	3106.9	2966.0	2785.1
17.5°	5640.1	5435.3	5345.3	5176.4	5016.5	4801.7	4552.9	4170.1	3981.3	3728.4	3445.6
20°	7919.5	7596.8	7415.9	7145.1	6887.3	6535.5	6105.8	5503.2	5223.4	4733.7	4270.1
21°	8821.9	8544.1	8317.3	8012.5	7707.7	7291.0	6780.3	6142.8	5711.1	5138.5	4594.8
22°	9733.3	9469.5	9204.7	8869.9	8529.1	8042.5	7453.9	6714.4	6195.7	5527.2	4900.6
23°	10630.7	10362.9	10159.0	9700.3	9312.6	8764.0	8111.4	7266.0	6663.4	5896.9	5188.4
24°	11492.1	11199.3	10945.5	10482.8	10044.1	9433.5	8731.0	7801.6	7115.1	6249.7	5455.2
25°	12290.5	11967.8	11656.0	11180.3	10703.6	10037.1	9277.6	8286.3	7526.8	6569.5	5698.1
26°	13025.0	12584.3	12245.6	11805.9	11264.2	10564.7	9758.3	8705.0	7881.6	6836.3	5888.9
27°	13661.6	13215.9	12827.2	12356.5	11751.9	10998.4	10155.0	9005.8	8162.4	7036.2	6021.9
28°	14124.3	13747.5	13299.8	12793.2	12128.6	11297.2	10423.8	9245.6	8331.3	7140.1	6076.8
29°	14614.9	14186.2	13664.6	13089.0	12365.5	11485.1	10571.7	9370.5	8401.2	7164.1	6065.8
30°	14875.7	14481.0	13867.4	13239.9	12467.4	11545.0	10603.7	9389.5	8379.2	7106.1	5993.9
31°	14945.7	14577.0	13897.4	13242.9	12435.4	11486.1	10524.7	9291.6	8260.3	6971.2	5860.0
32°	14844.8	14476.0	13770.5	13115.0	12288.5	11321.2	10350.9	9116.7	8066.4	6769.3	5669.1
33°	14482.0	14183.2	13502.7	12872.1	12064.7	11076.4	10095.0	8831.9	7764.6	6507.5	5439.3
34°	14018.3	13739.5	13112.0	12465.4	11709.9	10740.6	9742.3	8487.2	7417.9	6185.7	5166.4
35°	13459.7	13184.9	12606.3	11963.8	11240.3	10293.9	9290.6	8054.4	7008.2	5822.0	4863.6
36°	12801.2	12515.4	11980.7	11369.2	10710.6	9754.3	8756.0	7556.8	6542.5	5426.3	4539.9
37°	12076.7	11788.9	11311.2	10744.6	10093.0	9146.7	8157.4	7008.2	6050.8	5015.5	4201.1
38°	11312.2	11044.4	10610.7	10045.1	9400.5	8471.2	7502.8	6506.5	5550.2	4599.8	3858.3
39°	10527.7	10245.9	9837.2	9281.6	8648.0	7730.7	6820.3	5929.9	5118.5	4191.1	3543.6
40°	9651.3	9385.5	8911.9	8476.2	7840.6	6967.2	6136.8	5293.4	4638.8	3798.4	3257.8
42.5°	7139.1	6931.2	6678.4	6231.7	5762.0	5135.5	4554.9	3970.3	3494.6	3017.9	2621.2
45°	4530.9	4378.0	4248.1	3970.3	3780.4	3427.6	3127.8	2829.1	2604.2	2354.4	1913.7
47.5°	1676.8	1604.9	1558.9	1437.0	1426.0	1313.1	1302.1	1446.0	1530.9	1441.0	1084.3
50°	631.6	613.6	602.6	564.6	538.6	486.7	447.7	418.7	359.8	318.8	285.8
51°	414.7	401.7	382.7	379.7	368.7	339.8	321.8	315.8	275.8	232.8	199.9
52°	263.8	255.8	243.8	244.8	238.8	220.8	214.9	223.8	202.9	178.9	154.9
53°	165.9	161.9	153.9	153.9	152.9	140.9	138.9	146.9	142.9	131.9	117.9
54°	107.9	106.9	99.9	100.9	100.9	93.9	92.9	95.9	94.9	90.9	83.9
55°	73.9	72.9	72.0	69.0	67.0	65.0	65.0	66.0	65.0	63.0	59.0
57.5°	26.0	25.0	26.0	25.0	25.0	26.0	25.0	27.0	28.0	28.0	26.0
60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.0	10.0	10.0	10.0



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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	1.0	2.0	2.0	2.0
64°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
66°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	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	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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°	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9
2.5°	229.8	230.8	226.8	225.8	224.8	219.8	216.9	213.9	210.9	205.9	207.9
5°	307.8	307.8	298.8	292.8	289.8	278.8	273.8	266.8	258.8	252.8	249.8
7.5°	429.7	422.7	402.7	387.7	378.7	356.8	343.8	324.8	313.8	301.8	294.8
10°	911.4	864.4	766.5	696.5	630.6	550.6	477.7	420.7	383.7	356.8	339.8
11°	1228.2	1166.2	1041.3	944.3	858.4	744.5	632.6	525.6	448.7	401.7	366.7
12°	1575.9	1496.0	1346.1	1226.2	1121.2	978.3	835.4	694.5	583.6	495.7	423.7
13°	1937.7	1834.7	1660.9	1523.0	1402.0	1237.1	1067.3	898.4	763.5	643.6	534.6
14°	2296.4	2170.5	1979.6	1820.7	1684.8	1501.0	1308.1	1120.2	962.3	811.4	678.5
15°	2622.2	2484.3	2316.4	2108.5	1961.6	1725.8	1543.9	1333.1	1153.2	978.3	823.4
17.5°	3206.8	3020.9	2823.1	2608.2	2468.3	2235.5	2004.6	1749.8	1531.9	1315.1	1107.2
20°	3849.3	3517.6	3191.8	2872.0	2669.2	2421.3	2195.5	1943.7	1713.8	1468.0	1242.1
21°	4102.2	3722.4	3325.7	2967.0	2737.1	2472.3	2238.5	1977.6	1735.8	1474.0	1236.1
22°	4342.0	3888.3	3442.6	3046.9	2796.1	2525.3	2273.4	1999.6	1741.8	1467.0	1218.2
23°	4560.9	4048.2	3550.6	3116.9	2839.0	2551.2	2291.4	2008.6	1738.8	1451.0	1191.2
24°	4759.7	4195.1	3642.5	3168.8	2865.0	2559.2	2289.4	2001.6	1723.8	1427.0	1154.2
25°	4931.6	4311.0	3709.4	3196.8	2872.0	2555.2	2279.4	1983.6	1693.8	1386.0	1111.2
26°	5061.5	4385.0	3741.4	3200.8	2862.0	2542.2	2256.4	1950.7	1646.9	1331.1	1053.3
27°	5136.5	4412.0	3741.4	3183.8	2842.0	2518.3	2219.5	1899.7	1585.9	1263.1	981.3
28°	5149.5	4400.0	3714.4	3148.8	2804.1	2476.3	2165.5	1834.7	1514.0	1182.2	902.4
29°	5115.5	4352.0	3656.5	3088.9	2748.1	2422.3	2095.6	1752.8	1428.0	1093.2	820.4
30°	5031.5	4264.1	3570.5	3012.9	2681.2	2351.4	2007.6	1661.9	1331.1	1001.3	726.5
31°	4900.6	4137.1	3460.6	2921.0	2598.2	2266.4	1910.7	1556.9	1222.2	887.4	624.6
32°	4726.7	3959.3	3338.7	2816.1	2506.3	2169.5	1789.8	1423.0	1078.3	748.5	506.7
33°	4521.9	3785.4	3202.8	2703.1	2406.3	2036.6	1622.9	1223.2	902.4	593.6	383.7
34°	4288.0	3598.5	3056.9	2584.2	2275.4	1841.7	1415.0	1017.3	709.5	433.7	270.8
35°	4029.2	3399.7	2904.0	2444.3	2068.6	1603.9	1177.2	792.5	513.6	293.8	203.9
36°	3753.4	3176.8	2729.1	2244.5	1820.7	1337.1	925.4	570.6	340.8	218.8	175.9
37°	3493.6	2982.9	2548.2	1993.6	1540.9	1058.3	675.5	380.7	248.8	190.9	155.9
38°	3248.8	2796.1	2312.4	1715.8	1253.1	793.5	444.7	280.8	215.9	167.9	137.9
39°	3019.9	2608.2	2036.6	1418.0	965.3	559.6	322.8	240.8	187.9	148.9	121.9
40°	2799.1	2339.4	1735.8	1156.2	703.5	390.7	271.8	212.9	165.9	130.9	102.9
42.5°	2099.6	1503.0	961.3	526.6	330.8	254.8	193.9	149.9	109.9	80.9	62.0
45°	1318.1	764.5	412.7	295.8	230.8	172.9	125.9	89.9	66.0	49.0	39.0
47.5°	599.6	328.8	255.8	197.9	148.9	102.9	73.9	54.0	40.0	31.0	23.0
50°	219.8	186.9	151.9	112.9	81.9	59.0	43.0	32.0	24.0	18.0	13.0
51°	171.9	149.9	120.9	84.9	65.0	48.0	35.0	26.0	19.0	14.0	10.0
52°	134.9	118.9	92.9	66.0	51.0	38.0	28.0	20.0	14.0	11.0	8.0
53°	103.9	90.9	70.0	51.0	40.0	30.0	22.0	16.0	11.0	8.0	6.0
54°	76.9	67.0	52.0	39.0	31.0	23.0	16.0	12.0	8.0	6.0	5.0
55°	55.0	49.0	39.0	31.0	24.0	18.0	12.0	9.0	6.0	4.0	4.0
57.5°	23.0	22.0	18.0	15.0	12.0	9.0	6.0	4.0	4.0	3.0	4.0
60°	9.0	9.0	8.0	6.0	5.0	4.0	3.0	3.0	3.0	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	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0
64°	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0
65°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	4.0
66°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	4.0
67.5°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0
70°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0
72.5°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
75°	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
77.5°	1.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
80°	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
82.5°	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
85°	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
87.5°	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	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: P208868

CATALOG NUMBER: LDSQA6A30827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9
2.5°	204.9	204.9	197.9	195.9	194.9	192.9	187.9	187.9	184.9	180.9	178.9
5°	242.8	240.8	229.8	223.8	218.8	212.9	202.9	198.9	192.9	186.9	181.9
7.5°	279.8	272.8	255.8	246.8	239.8	229.8	216.9	207.9	197.9	187.9	180.9
10°	316.8	302.8	278.8	263.8	250.8	236.8	220.8	210.9	197.9	184.9	174.9
11°	331.8	313.8	286.8	267.8	252.8	236.8	220.8	207.9	195.9	182.9	171.9
12°	360.8	326.8	294.8	273.8	254.8	236.8	218.8	204.9	191.9	178.9	167.9
13°	419.7	356.8	303.8	278.8	257.8	236.8	216.9	201.9	187.9	174.9	162.9
14°	526.6	418.7	327.8	283.8	258.8	236.8	214.9	196.9	182.9	168.9	157.9
15°	647.6	513.6	376.7	301.8	259.8	234.8	210.9	191.9	176.9	162.9	151.9
17.5°	898.4	718.5	533.6	391.7	284.8	228.8	195.9	176.9	159.9	145.9	132.9
20°	1000.3	791.5	583.6	419.7	294.8	218.8	178.9	158.9	140.9	126.9	115.9
21°	987.3	777.5	568.6	400.7	275.8	204.9	169.9	150.9	133.9	118.9	108.9
22°	960.3	744.5	533.6	365.7	252.8	190.9	161.9	141.9	125.9	111.9	101.9
23°	924.4	697.5	493.7	328.8	228.8	177.9	153.9	133.9	118.9	104.9	95.9
24°	879.4	650.6	447.7	291.8	205.9	167.9	144.9	125.9	110.9	98.9	89.9
25°	829.4	601.6	398.7	260.8	191.9	157.9	134.9	116.9	103.9	92.9	83.9
26°	768.5	543.6	352.8	231.8	174.9	146.9	124.9	108.9	96.9	86.9	77.9
27°	698.5	483.7	301.8	201.9	160.9	135.9	115.9	101.9	90.9	80.9	72.0
28°	635.6	416.7	258.8	179.9	149.9	124.9	107.9	94.9	84.9	74.9	67.0
29°	556.6	352.8	220.8	162.9	137.9	116.9	99.9	87.9	77.9	68.0	61.0
30°	477.7	291.8	188.9	148.9	125.9	106.9	91.9	80.9	71.0	63.0	57.0
31°	395.7	241.8	165.9	136.9	114.9	98.9	84.9	74.9	65.0	58.0	52.0
32°	302.8	197.9	147.9	123.9	104.9	88.9	77.9	68.0	59.0	53.0	47.0
33°	227.8	166.9	133.9	111.9	94.9	81.9	71.0	61.0	54.0	48.0	43.0
34°	181.9	148.9	120.9	100.9	85.9	73.9	63.0	55.0	48.0	43.0	38.0
35°	159.9	133.9	107.9	90.9	76.9	65.0	56.0	49.0	43.0	38.0	34.0
36°	141.9	119.9	95.9	80.9	67.0	57.0	49.0	43.0	37.0	33.0	30.0
37°	126.9	105.9	84.9	70.0	58.0	50.0	43.0	37.0	32.0	29.0	27.0
38°	113.9	90.9	72.0	60.0	50.0	43.0	37.0	32.0	28.0	25.0	23.0
39°	96.9	76.9	60.0	51.0	42.0	36.0	31.0	28.0	24.0	22.0	20.0
40°	80.9	64.0	50.0	42.0	36.0	30.0	27.0	23.0	21.0	19.0	17.0
42.5°	50.0	40.0	32.0	27.0	23.0	20.0	18.0	16.0	14.0	13.0	12.0
45°	31.0	25.0	20.0	17.0	14.0	13.0	12.0	10.0	10.0	9.0	9.0
47.5°	18.0	15.0	11.0	10.0	8.0	8.0	7.0	7.0	6.0	7.0	6.0
50°	10.0	7.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
51°	8.0	6.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0
52°	6.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
53°	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
54°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
55°	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0	4.0
57.5°	4.0	4.0	3.0	3.0	4.0	3.0	4.0	4.0	4.0	4.0	4.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0



TEST NUMBER: P208868

CATALOG NUMBER: LDSQA6A30827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
64°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
66°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0
72.5°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0
75°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
77.5°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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: P208868

CATALOG NUMBER: LDSQA6A30827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9
2.5°	177.9	177.9	176.9	174.9	159.9	146.9	138.9	137.9
5°	178.9	176.9	172.9	169.9	142.9	125.9	115.9	114.9
7.5°	174.9	170.9	165.9	159.9	126.9	108.9	99.9	97.9
10°	167.9	160.9	154.9	146.9	111.9	94.9	86.9	84.9
11°	162.9	155.9	149.9	141.9	105.9	89.9	81.9	80.9
12°	158.9	150.9	142.9	135.9	99.9	84.9	77.9	76.9
13°	152.9	144.9	137.9	129.9	94.9	80.9	73.9	72.9
14°	147.9	138.9	131.9	124.9	89.9	75.9	71.0	70.0
15°	141.9	132.9	124.9	117.9	84.9	72.0	68.0	67.0
17.5°	125.9	115.9	108.9	101.9	72.9	63.0	60.0	61.0
20°	106.9	98.9	92.9	86.9	62.0	55.0	54.0	55.0
21°	99.9	92.9	87.9	81.9	58.0	52.0	52.0	53.0
22°	93.9	86.9	81.9	75.9	55.0	49.0	49.0	51.0
23°	87.9	80.9	75.9	71.0	51.0	47.0	47.0	49.0
24°	81.9	75.9	71.0	66.0	48.0	44.0	45.0	47.0
25°	75.9	71.0	66.0	62.0	45.0	42.0	43.0	45.0
26°	72.0	66.0	62.0	57.0	42.0	40.0	41.0	44.0
27°	66.0	61.0	57.0	53.0	40.0	38.0	40.0	42.0
28°	62.0	57.0	53.0	49.0	37.0	36.0	38.0	41.0
29°	57.0	53.0	49.0	46.0	35.0	34.0	37.0	39.0
30°	52.0	48.0	45.0	42.0	33.0	32.0	35.0	38.0
31°	48.0	45.0	42.0	39.0	31.0	31.0	34.0	37.0
32°	44.0	41.0	38.0	35.0	29.0	29.0	33.0	35.0
33°	40.0	37.0	34.0	32.0	27.0	28.0	31.0	34.0
34°	35.0	33.0	31.0	29.0	25.0	26.0	30.0	33.0
35°	32.0	30.0	28.0	26.0	24.0	25.0	29.0	32.0
36°	28.0	27.0	25.0	24.0	22.0	24.0	28.0	31.0
37°	25.0	24.0	22.0	21.0	21.0	23.0	27.0	30.0
38°	22.0	21.0	20.0	19.0	20.0	22.0	26.0	29.0
39°	19.0	18.0	18.0	17.0	19.0	21.0	25.0	28.0
40°	17.0	16.0	16.0	15.0	18.0	20.0	24.0	28.0
42.5°	12.0	12.0	12.0	12.0	15.0	18.0	22.0	26.0
45°	9.0	9.0	9.0	9.0	13.0	16.0	19.0	24.0
47.5°	7.0	7.0	7.0	7.0	12.0	15.0	18.0	21.0
50°	5.0	5.0	6.0	6.0	11.0	13.0	16.0	19.0
51°	5.0	5.0	5.0	6.0	10.0	13.0	15.0	18.0
52°	5.0	5.0	5.0	5.0	10.0	12.0	14.0	16.0
53°	4.0	5.0	5.0	5.0	9.0	12.0	13.0	15.0
54°	4.0	4.0	4.0	5.0	9.0	11.0	12.0	14.0
55°	4.0	4.0	4.0	5.0	8.0	11.0	12.0	12.0
57.5°	4.0	4.0	4.0	4.0	8.0	10.0	11.0	10.0
60°	4.0	4.0	4.0	4.0	7.0	9.0	10.0	7.0



TEST NUMBER: P208868

CATALOG NUMBER: LDSQA6A30827D010TE LARL20NF 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	8.0	8.0	6.0
64°	4.0	4.0	4.0	4.0	7.0	8.0	8.0	6.0
65°	4.0	4.0	4.0	4.0	7.0	7.0	7.0	5.0
66°	4.0	4.0	4.0	4.0	7.0	7.0	7.0	5.0
67.5°	4.0	4.0	4.0	4.0	7.0	7.0	6.0	5.0
70°	4.0	4.0	4.0	5.0	6.0	6.0	6.0	5.0
72.5°	4.0	4.0	4.0	5.0	6.0	6.0	5.0	4.0
75°	5.0	5.0	5.0	5.0	6.0	6.0	5.0	3.0
77.5°	5.0	5.0	5.0	5.0	6.0	5.0	4.0	3.0
80°	5.0	5.0	4.0	4.0	5.0	5.0	3.0	2.0
82.5°	5.0	5.0	4.0	4.0	5.0	4.0	3.0	2.0
85°	5.0	5.0	4.0	4.0	5.0	4.0	2.0	1.0
87.5°	5.0	4.0	4.0	4.0	5.0	4.0	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°	3.0	3.0	3.0	3.0	4.0	3.0	4.0	5.0	6.0	6.0	6.0
62°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0





61°	6.0	6.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
62°	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0





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





61°	4.0	4.0	4.0	4.0	7.0	9.0	9.0	7.0
62°	4.0	4.0	4.0	4.0	7.0	8.0	9.0	6.0



(END OF REPORT)