

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: P208858

Luminaire Tested: **LDSQA6A15935D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208858
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: LDSQA6A15935D010TE 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 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1312.0 lumens
Efficiency: N/A
Efficacy: 60.2 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

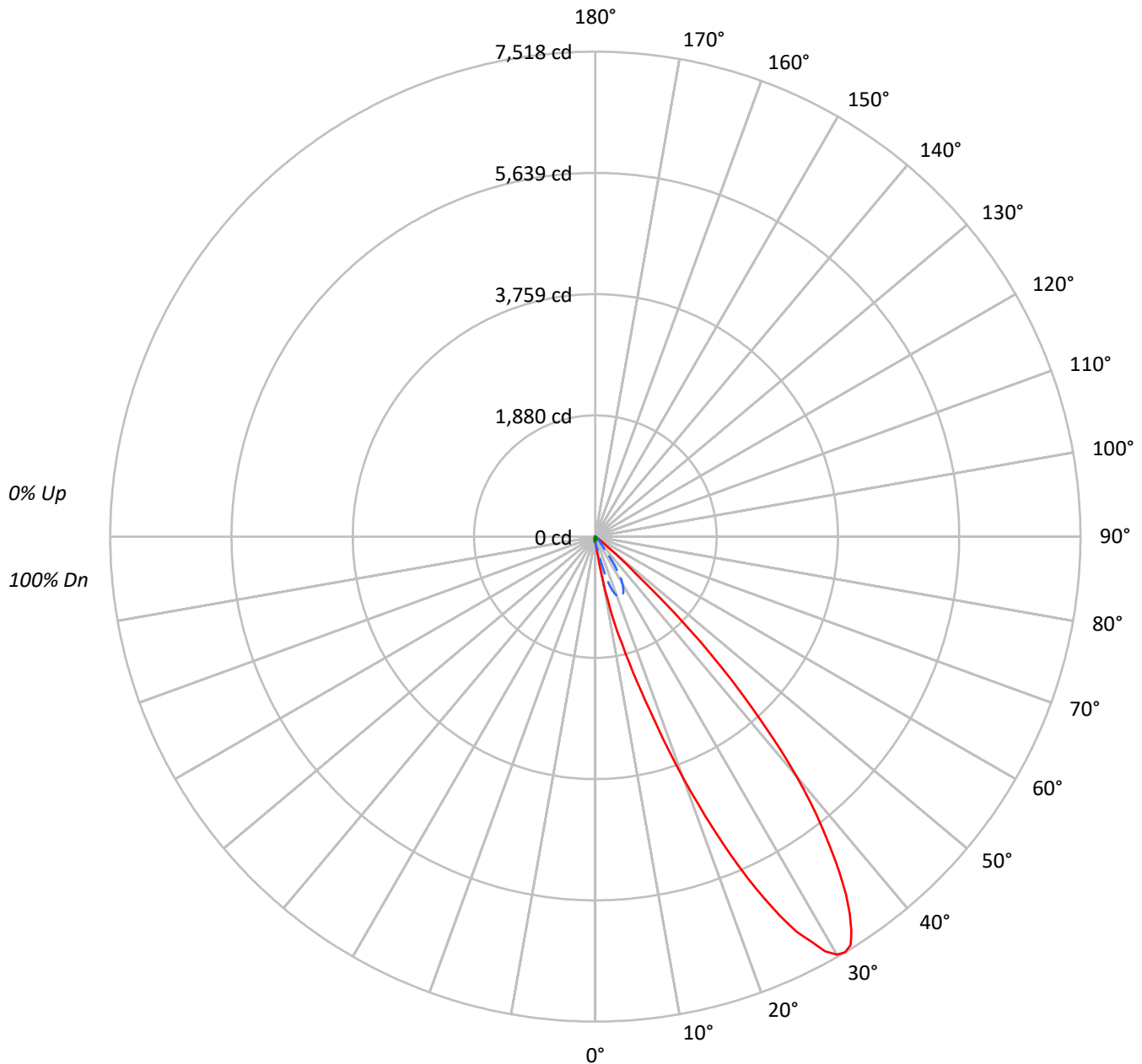
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3810	3810	3810
5°	7602	3695	2498
10°	34193	3231	1867
15°	89644	2643	1502
20°	182519	2002	1265
25°	293691	1482	1074
30°	371998	1049	950
35°	355850	689	846
40°	272854	422	792
45°	138768	274	737
50°	21280	201	643
55°	2792	188	450
60°	301	172	301
65°	51	204	255
70°	63	315	315
75°	0	416	250
80°	0	496	248
85°	0	988	247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	0.9
10°-20°	129.7	9.9
20°-30°	424.8	32.4
30°-40°	517.1	39.4
40°-50°	210.0	16.0
50°-60°	12.5	1.0
60°-70°	2.4	0.2
70°-80°	2.1	0.2
80°-90°	1.5	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°	566.3	43.2
0°-40°	1083.4	82.6
0°-60°	1305.9	99.5
0°-90°	1312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	176	134	86	63	58	33
15°	2011	670	59	36	34	654
25°	6182	998	31	21	23	2841
35°	6770	399	13	13	16	4095
45°	2279	45	4	8	12	1748
55°	37	4	2	6	6	64
65°	0	2	2	4	2	1
75°	0	2	2	3	2	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	



TEST NUMBER: P208858

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
2.5°	124.7	119.1	121.6	121.1	119.1	119.6	120.6	118.6	119.6	116.6	117.1
5°	175.9	167.9	172.4	167.4	169.9	167.4	167.4	164.4	161.9	161.4	158.8
7.5°	307.1	287.5	293.5	271.9	275.5	268.4	261.9	254.8	242.8	236.7	223.7
10°	782.1	726.8	739.9	692.7	691.6	675.1	644.4	623.3	578.5	546.9	501.6
11°	989.2	951.5	963.1	911.3	908.8	886.2	850.0	793.7	768.6	726.3	670.0
12°	1259.6	1196.3	1203.3	1146.5	1141.0	1110.9	1070.1	1000.8	970.6	919.3	853.0
13°	1505.4	1449.1	1449.6	1387.8	1381.3	1343.1	1298.3	1214.4	1180.7	1123.4	1043.5
14°	1731.1	1688.4	1679.9	1646.7	1611.5	1566.8	1519.5	1424.5	1387.3	1323.0	1231.5
15°	2011.1	1927.7	1911.1	1869.4	1826.6	1770.3	1712.5	1604.0	1562.7	1491.9	1400.9
17.5°	2837.0	2733.9	2688.7	2603.7	2523.3	2415.2	2290.1	2097.6	2002.6	1875.4	1733.1
20°	3983.5	3821.1	3730.2	3593.9	3464.3	3287.3	3071.2	2768.1	2627.3	2381.1	2147.8
21°	4437.4	4297.7	4183.6	4030.2	3876.9	3667.3	3410.5	3089.8	2872.6	2584.6	2311.2
22°	4895.8	4763.1	4629.9	4461.5	4290.1	4045.3	3749.3	3377.3	3116.4	2780.2	2465.0
23°	5347.2	5212.5	5109.9	4879.2	4684.2	4408.2	4080.0	3654.8	3351.7	2966.1	2609.8
24°	5780.5	5633.2	5505.5	5272.8	5052.1	4745.0	4391.6	3924.2	3578.9	3143.6	2744.0
25°	6182.1	6019.7	5862.9	5623.6	5383.9	5048.6	4666.6	4168.0	3786.0	3304.4	2866.1
26°	6551.5	6329.9	6159.5	5938.3	5665.9	5314.0	4908.4	4378.6	3964.4	3438.6	2962.1
27°	6871.7	6647.5	6452.0	6215.3	5911.2	5532.2	5107.9	4529.9	4105.6	3539.2	3029.0
28°	7104.4	6914.9	6689.8	6434.9	6100.7	5682.5	5243.1	4650.5	4190.6	3591.4	3056.6
29°	7351.2	7135.6	6873.2	6583.7	6219.8	5777.0	5317.5	4713.3	4225.8	3603.5	3051.1
30°	7482.4	7283.9	6975.3	6659.6	6271.1	5807.1	5333.6	4722.9	4214.7	3574.3	3014.9
31°	7517.6	7332.1	6990.3	6661.1	6255.0	5777.5	5293.9	4673.6	4154.9	3506.5	2947.5
32°	7466.9	7281.4	6926.5	6596.8	6181.1	5694.5	5206.4	4585.7	4057.4	3404.9	2851.5
33°	7284.4	7134.1	6791.8	6474.6	6068.5	5571.4	5077.8	4442.4	3905.6	3273.3	2735.9
34°	7051.2	6910.9	6595.3	6270.0	5890.0	5402.5	4900.3	4269.0	3731.2	3111.4	2598.7
35°	6770.2	6632.0	6340.9	6017.7	5653.8	5177.8	4673.1	4051.4	3525.1	2928.4	2446.4
36°	6438.9	6295.2	6026.3	5718.6	5387.4	4906.4	4404.2	3801.0	3290.8	2729.4	2283.5
37°	6074.5	5929.8	5689.5	5404.5	5076.8	4600.8	4103.1	3525.1	3043.5	2522.8	2113.1
38°	5690.0	5555.3	5337.1	5052.6	4728.4	4261.0	3773.9	3272.8	2791.7	2313.7	1940.7
39°	5295.4	5153.7	4948.1	4668.6	4349.9	3888.5	3430.6	2982.7	2574.6	2108.1	1782.4
40°	4854.6	4720.9	4482.6	4263.5	3943.8	3504.5	3086.8	2662.5	2333.3	1910.6	1638.6
42.5°	3590.9	3486.4	3359.2	3134.5	2898.3	2583.1	2291.1	1997.0	1757.8	1518.0	1318.4
45°	2279.0	2202.1	2136.8	1997.0	1901.5	1724.1	1573.3	1423.0	1309.9	1184.2	962.6
47.5°	843.4	807.3	784.1	722.8	717.3	660.5	655.0	727.3	770.1	724.8	545.4
50°	317.7	308.6	303.1	284.0	270.9	244.8	225.2	210.6	181.0	160.3	143.8
51°	208.6	202.1	192.5	191.0	185.5	170.9	161.9	158.8	138.7	117.1	100.5
52°	132.7	128.7	122.6	123.1	120.1	111.1	108.1	112.6	102.0	90.0	77.9
53°	83.4	81.4	77.4	77.4	76.9	70.9	69.9	73.9	71.9	66.3	59.3
54°	54.3	53.8	50.3	50.8	50.8	47.2	46.7	48.3	47.8	45.7	42.2
55°	37.2	36.7	36.2	34.7	33.7	32.7	32.7	33.2	32.7	31.7	29.7
57.5°	13.1	12.6	13.1	12.6	12.6	13.1	12.6	13.6	14.1	14.1	13.1
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.5	5.0	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°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0
64°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
66°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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	0.5	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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



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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°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
2.5°	115.6	116.1	114.1	113.6	113.1	110.6	109.1	107.6	106.1	103.5	104.6
5°	154.8	154.8	150.3	147.3	145.8	140.2	137.7	134.2	130.2	127.2	125.7
7.5°	216.1	212.6	202.6	195.0	190.5	179.4	172.9	163.4	157.8	151.8	148.3
10°	458.4	434.8	385.5	350.3	317.2	277.0	240.3	211.6	193.0	179.4	170.9
11°	617.8	586.6	523.8	475.0	431.8	374.5	318.2	264.4	225.7	202.1	184.5
12°	792.7	752.5	677.1	616.8	564.0	492.1	420.2	349.3	293.5	249.3	213.1
13°	974.6	922.9	835.4	766.0	705.2	622.3	536.8	451.9	384.0	323.7	268.9
14°	1155.1	1091.8	995.7	915.8	847.5	755.0	658.0	563.5	484.1	408.2	341.3
15°	1319.0	1249.6	1165.1	1060.6	986.7	868.1	776.6	670.5	580.1	492.1	414.2
17.5°	1613.0	1519.5	1420.0	1311.9	1241.5	1124.4	1008.3	880.1	770.6	661.5	556.9
20°	1936.2	1769.3	1605.5	1444.6	1342.6	1217.9	1104.3	977.7	862.0	738.4	624.8
21°	2063.4	1872.4	1672.8	1492.4	1376.8	1243.6	1125.9	994.7	873.1	741.4	621.8
22°	2184.0	1955.8	1731.6	1532.6	1406.4	1270.2	1143.5	1005.8	876.1	737.9	612.7
23°	2294.1	2036.2	1785.9	1567.8	1428.0	1283.3	1152.6	1010.3	874.6	729.8	599.2
24°	2394.1	2110.1	1832.2	1593.9	1441.1	1287.3	1151.6	1006.8	867.1	717.8	580.6
25°	2480.6	2168.4	1865.8	1608.0	1444.6	1285.3	1146.5	997.8	852.0	697.2	558.9
26°	2545.9	2205.6	1881.9	1610.0	1439.6	1278.7	1135.0	981.2	828.4	669.5	529.8
27°	2583.6	2219.2	1881.9	1601.4	1429.5	1266.7	1116.4	955.5	797.7	635.3	493.6
28°	2590.2	2213.2	1868.3	1583.8	1410.4	1245.6	1089.2	922.9	761.5	594.6	453.9
29°	2573.1	2189.0	1839.2	1553.7	1382.3	1218.4	1054.1	881.6	718.3	549.9	412.7
30°	2530.8	2144.8	1796.0	1515.5	1348.6	1182.7	1009.8	835.9	669.5	503.7	365.4
31°	2465.0	2081.0	1740.7	1469.2	1306.9	1140.0	961.1	783.1	614.7	446.4	314.2
32°	2377.5	1991.5	1679.4	1416.5	1260.6	1091.3	900.2	715.8	542.4	376.5	254.8
33°	2274.5	1904.0	1611.0	1359.7	1210.4	1024.4	816.3	615.2	453.9	298.6	193.0
34°	2156.9	1810.0	1537.6	1299.9	1144.5	926.4	711.8	511.7	356.9	218.1	136.2
35°	2026.7	1710.0	1460.7	1229.5	1040.5	806.8	592.1	398.6	258.4	147.8	102.5
36°	1888.0	1597.9	1372.7	1129.0	915.8	672.5	465.5	287.0	171.4	110.1	88.5
37°	1757.3	1500.4	1281.8	1002.8	775.1	532.3	339.8	191.5	125.2	96.0	78.4
38°	1634.1	1406.4	1163.1	863.0	630.3	399.1	223.7	141.2	108.6	84.4	69.4
39°	1519.0	1311.9	1024.4	713.3	485.6	281.5	162.4	121.1	94.5	74.9	61.3
40°	1407.9	1176.7	873.1	581.6	353.9	196.5	136.7	107.1	83.4	65.8	51.8
42.5°	1056.1	756.0	483.5	264.9	166.4	128.2	97.5	75.4	55.3	40.7	31.2
45°	663.0	384.5	207.6	148.8	116.1	87.0	63.3	45.2	33.2	24.6	19.6
47.5°	301.6	165.4	128.7	99.5	74.9	51.8	37.2	27.1	20.1	15.6	11.6
50°	110.6	94.0	76.4	56.8	41.2	29.7	21.6	16.1	12.1	9.0	6.5
51°	86.5	75.4	60.8	42.7	32.7	24.1	17.6	13.1	9.6	7.0	5.0
52°	67.9	59.8	46.7	33.2	25.6	19.1	14.1	10.1	7.0	5.5	4.0
53°	52.3	45.7	35.2	25.6	20.1	15.1	11.1	8.0	5.5	4.0	3.0
54°	38.7	33.7	26.1	19.6	15.6	11.6	8.0	6.0	4.0	3.0	2.5
55°	27.6	24.6	19.6	15.6	12.1	9.0	6.0	4.5	3.0	2.0	2.0
57.5°	11.6	11.1	9.0	7.5	6.0	4.5	3.0	2.0	2.0	1.5	2.0
60°	4.5	4.5	4.0	3.0	2.5	2.0	1.5	1.5	1.5	1.5	1.5



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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°	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0
64°	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0
65°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.0
66°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	2.0	2.0
70°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	2.0	2.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
75°	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
77.5°	0.5	1.0	1.0	1.0	1.5	1.5	1.5	1.5	2.0	2.0	2.0
80°	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
82.5°	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
85°	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
87.5°	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
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: P208858

CATALOG NUMBER: LDSQA6A15935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
2.5°	103.0	103.0	99.5	98.5	98.0	97.0	94.5	94.5	93.0	91.0	90.0
5°	122.1	121.1	115.6	112.6	110.1	107.1	102.0	100.0	97.0	94.0	91.5
7.5°	140.7	137.2	128.7	124.2	120.6	115.6	109.1	104.6	99.5	94.5	91.0
10°	159.3	152.3	140.2	132.7	126.2	119.1	111.1	106.1	99.5	93.0	88.0
11°	166.9	157.8	144.3	134.7	127.2	119.1	111.1	104.6	98.5	92.0	86.5
12°	181.5	164.4	148.3	137.7	128.2	119.1	110.1	103.0	96.5	90.0	84.4
13°	211.1	179.4	152.8	140.2	129.7	119.1	109.1	101.5	94.5	88.0	81.9
14°	264.9	210.6	164.9	142.8	130.2	119.1	108.1	99.0	92.0	84.9	79.4
15°	325.7	258.4	189.5	151.8	130.7	118.1	106.1	96.5	89.0	81.9	76.4
17.5°	451.9	361.4	268.4	197.0	143.3	115.1	98.5	89.0	80.4	73.4	66.9
20°	503.2	398.1	293.5	211.1	148.3	110.1	90.0	79.9	70.9	63.8	58.3
21°	496.6	391.1	286.0	201.6	138.7	103.0	85.5	75.9	67.4	59.8	54.8
22°	483.0	374.5	268.4	184.0	127.2	96.0	81.4	71.4	63.3	56.3	51.3
23°	465.0	350.8	248.3	165.4	115.1	89.5	77.4	67.4	59.8	52.8	48.3
24°	442.3	327.2	225.2	146.8	103.5	84.4	72.9	63.3	55.8	49.8	45.2
25°	417.2	302.6	200.6	131.2	96.5	79.4	67.9	58.8	52.3	46.7	42.2
26°	386.5	273.4	177.4	116.6	88.0	73.9	62.8	54.8	48.8	43.7	39.2
27°	351.4	243.3	151.8	101.5	80.9	68.4	58.3	51.3	45.7	40.7	36.2
28°	319.7	209.6	130.2	90.5	75.4	62.8	54.3	47.8	42.7	37.7	33.7
29°	280.0	177.4	111.1	81.9	69.4	58.8	50.3	44.2	39.2	34.2	30.7
30°	240.3	146.8	95.0	74.9	63.3	53.8	46.2	40.7	35.7	31.7	28.7
31°	199.0	121.6	83.4	68.9	57.8	49.8	42.7	37.7	32.7	29.2	26.1
32°	152.3	99.5	74.4	62.3	52.8	44.7	39.2	34.2	29.7	26.6	23.6
33°	114.6	83.9	67.4	56.3	47.8	41.2	35.7	30.7	27.1	24.1	21.6
34°	91.5	74.9	60.8	50.8	43.2	37.2	31.7	27.6	24.1	21.6	19.1
35°	80.4	67.4	54.3	45.7	38.7	32.7	28.1	24.6	21.6	19.1	17.1
36°	71.4	60.3	48.3	40.7	33.7	28.7	24.6	21.6	18.6	16.6	15.1
37°	63.8	53.3	42.7	35.2	29.2	25.1	21.6	18.6	16.1	14.6	13.6
38°	57.3	45.7	36.2	30.2	25.1	21.6	18.6	16.1	14.1	12.6	11.6
39°	48.8	38.7	30.2	25.6	21.1	18.1	15.6	14.1	12.1	11.1	10.1
40°	40.7	32.2	25.1	21.1	18.1	15.1	13.6	11.6	10.6	9.6	8.5
42.5°	25.1	20.1	16.1	13.6	11.6	10.1	9.0	8.0	7.0	6.5	6.0
45°	15.6	12.6	10.1	8.5	7.0	6.5	6.0	5.0	5.0	4.5	4.5
47.5°	9.0	7.5	5.5	5.0	4.0	4.0	3.5	3.5	3.0	3.5	3.0
50°	5.0	3.5	3.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
51°	4.0	3.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5
52°	3.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
53°	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
54°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
55°	2.0	2.0	2.0	2.0	2.0	1.5	2.0	2.0	2.0	2.0	2.0
57.5°	2.0	2.0	1.5	1.5	2.0	1.5	2.0	2.0	2.0	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P208858

CATALOG NUMBER: LDSQA6A15935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
64°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
66°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.0
72.5°	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.0
75°	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P208858

CATALOG NUMBER: LDSQA6A15935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
2.5°	89.5	89.5	89.0	88.0	80.4	73.9	69.9	69.4
5°	90.0	89.0	87.0	85.5	71.9	63.3	58.3	57.8
7.5°	88.0	86.0	83.4	80.4	63.8	54.8	50.3	49.3
10°	84.4	80.9	77.9	73.9	56.3	47.8	43.7	42.7
11°	81.9	78.4	75.4	71.4	53.3	45.2	41.2	40.7
12°	79.9	75.9	71.9	68.4	50.3	42.7	39.2	38.7
13°	76.9	72.9	69.4	65.3	47.8	40.7	37.2	36.7
14°	74.4	69.9	66.3	62.8	45.2	38.2	35.7	35.2
15°	71.4	66.9	62.8	59.3	42.7	36.2	34.2	33.7
17.5°	63.3	58.3	54.8	51.3	36.7	31.7	30.2	30.7
20°	53.8	49.8	46.7	43.7	31.2	27.6	27.1	27.6
21°	50.3	46.7	44.2	41.2	29.2	26.1	26.1	26.6
22°	47.2	43.7	41.2	38.2	27.6	24.6	24.6	25.6
23°	44.2	40.7	38.2	35.7	25.6	23.6	23.6	24.6
24°	41.2	38.2	35.7	33.2	24.1	22.1	22.6	23.6
25°	38.2	35.7	33.2	31.2	22.6	21.1	21.6	22.6
26°	36.2	33.2	31.2	28.7	21.1	20.1	20.6	22.1
27°	33.2	30.7	28.7	26.6	20.1	19.1	20.1	21.1
28°	31.2	28.7	26.6	24.6	18.6	18.1	19.1	20.6
29°	28.7	26.6	24.6	23.1	17.6	17.1	18.6	19.6
30°	26.1	24.1	22.6	21.1	16.6	16.1	17.6	19.1
31°	24.1	22.6	21.1	19.6	15.6	15.6	17.1	18.6
32°	22.1	20.6	19.1	17.6	14.6	14.6	16.6	17.6
33°	20.1	18.6	17.1	16.1	13.6	14.1	15.6	17.1
34°	17.6	16.6	15.6	14.6	12.6	13.1	15.1	16.6
35°	16.1	15.1	14.1	13.1	12.1	12.6	14.6	16.1
36°	14.1	13.6	12.6	12.1	11.1	12.1	14.1	15.6
37°	12.6	12.1	11.1	10.6	10.6	11.6	13.6	15.1
38°	11.1	10.6	10.1	9.6	10.1	11.1	13.1	14.6
39°	9.6	9.0	9.0	8.5	9.6	10.6	12.6	14.1
40°	8.5	8.0	8.0	7.5	9.0	10.1	12.1	14.1
42.5°	6.0	6.0	6.0	6.0	7.5	9.0	11.1	13.1
45°	4.5	4.5	4.5	4.5	6.5	8.0	9.6	12.1
47.5°	3.5	3.5	3.5	3.5	6.0	7.5	9.0	10.6
50°	2.5	2.5	3.0	3.0	5.5	6.5	8.0	9.6
51°	2.5	2.5	2.5	3.0	5.0	6.5	7.5	9.0
52°	2.5	2.5	2.5	2.5	5.0	6.0	7.0	8.0
53°	2.0	2.5	2.5	2.5	4.5	6.0	6.5	7.5
54°	2.0	2.0	2.0	2.5	4.5	5.5	6.0	7.0
55°	2.0	2.0	2.0	2.5	4.0	5.5	6.0	6.0
57.5°	2.0	2.0	2.0	2.0	4.0	5.0	5.5	5.0
60°	2.0	2.0	2.0	2.0	3.5	4.5	5.0	3.5



TEST NUMBER: P208858

CATALOG NUMBER: LDSQA6A15935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.0	2.0	2.0	2.0	3.5	4.0	4.0	3.0
64°	2.0	2.0	2.0	2.0	3.5	4.0	4.0	3.0
65°	2.0	2.0	2.0	2.0	3.5	3.5	3.5	2.5
66°	2.0	2.0	2.0	2.0	3.5	3.5	3.5	2.5
67.5°	2.0	2.0	2.0	2.0	3.5	3.5	3.0	2.5
70°	2.0	2.0	2.0	2.5	3.0	3.0	3.0	2.5
72.5°	2.0	2.0	2.0	2.5	3.0	3.0	2.5	2.0
75°	2.5	2.5	2.5	2.5	3.0	3.0	2.5	1.5
77.5°	2.5	2.5	2.5	2.5	3.0	2.5	2.0	1.5
80°	2.5	2.5	2.0	2.0	2.5	2.5	1.5	1.0
82.5°	2.5	2.5	2.0	2.0	2.5	2.0	1.5	1.0
85°	2.5	2.5	2.0	2.0	2.5	2.0	1.0	0.5
87.5°	2.5	2.0	2.0	2.0	2.5	2.0	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°	1.5	1.5	1.5	2.0	1.5	2.0	2.5	3.0	3.0	3.0
62°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0





61°	3.0	3.0	2.5	2.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5
62°	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0





61°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
62°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0





61°	2.0	2.0	2.0	2.0	3.5	4.5	4.5	3.5
62°	2.0	2.0	2.0	2.0	3.5	4.0	4.5	3.0



(END OF REPORT)