

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: P208844

Luminaire Tested: **LDSQA6A10827D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208844
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: LDSQA6A10827D010TE 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: 1034.6 lumens
Efficiency: N/A
Efficacy: 75.4 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

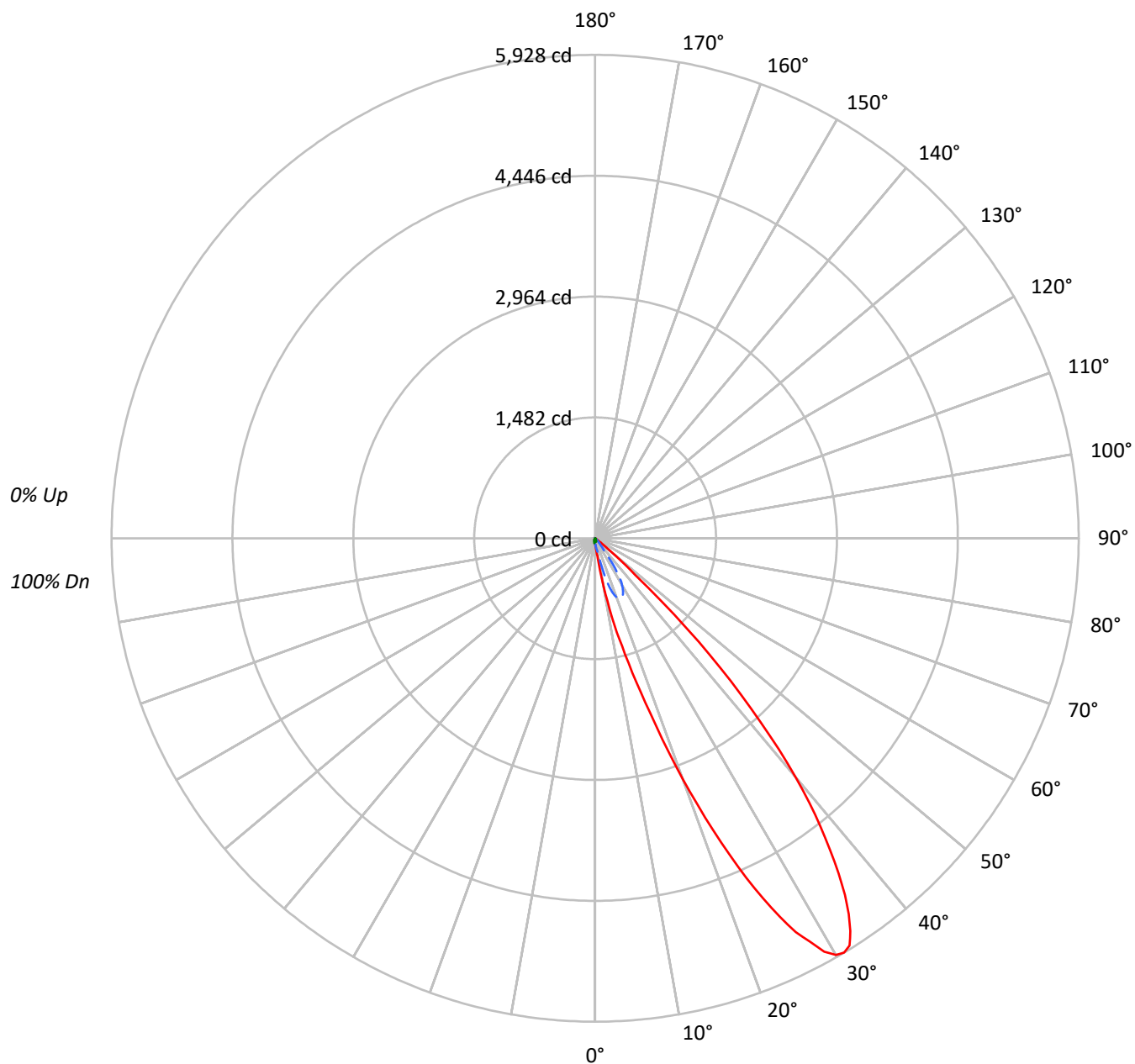
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	79		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°	3005	3005	3005
5°	5995	2913	1971
10°	26962	2549	1473
15°	70682	2086	1186
20°	143913	1581	999
25°	231566	1169	846
30°	293312	825	751
35°	280577	541	668
40°	215137	332	624
45°	109413	219	578
50°	16779	161	502
55°	2199	150	360
60°	241	138	241
65°	41	163	204
70°	50	252	252
75°	0	333	200
80°	0	397	198
85°	0	790	198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.9
10°-20°	102.3	9.9
20°-30°	334.9	32.4
30°-40°	407.7	39.4
40°-50°	165.6	16.0
50°-60°	9.9	1.0
60°-70°	1.9	0.2
70°-80°	1.7	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°	446.5	43.2
0°-40°	854.2	82.6
0°-60°	1029.7	99.5
0°-90°	1034.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1034.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	139	106	67	50	46	26
15°	1586	529	47	28	27	516
25°	4874	787	25	17	18	2240
35°	5338	314	10	10	13	3229
45°	1797	36	4	6	10	1379
55°	29	4	2	4	5	51
65°	0	1	2	3	2	1
75°	0	1	2	2	1	0
85°	0	1	2	2	0	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°	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2.5°	98.3	93.9	95.9	95.5	93.9	94.3	95.1	93.5	94.3	91.9	92.3
5°	138.7	132.4	135.9	132.0	134.0	132.0	132.0	129.6	127.6	127.2	125.2
7.5°	242.2	226.7	231.5	214.4	217.2	211.6	206.5	200.9	191.4	186.7	176.4
10°	616.7	573.1	583.4	546.1	545.3	532.3	508.1	491.4	456.2	431.2	395.5
11°	780.0	750.2	759.4	718.5	716.6	698.7	670.2	625.8	606.0	572.7	528.3
12°	993.2	943.3	948.8	904.0	899.7	875.9	843.8	789.1	765.3	724.9	672.6
13°	1187.0	1142.6	1143.0	1094.3	1089.1	1059.0	1023.7	957.5	931.0	885.8	822.8
14°	1364.9	1331.3	1324.5	1298.4	1270.6	1235.3	1198.1	1123.2	1093.9	1043.1	971.0
15°	1585.7	1519.9	1506.8	1473.9	1440.2	1395.9	1350.3	1264.7	1232.2	1176.3	1104.6
17.5°	2236.9	2155.6	2119.9	2053.0	1989.6	1904.3	1805.7	1653.9	1579.0	1478.7	1366.5
20°	3140.9	3012.9	2941.1	2833.7	2731.5	2592.0	2421.6	2182.6	2071.6	1877.4	1693.5
21°	3498.8	3388.6	3298.6	3177.7	3056.9	2891.6	2689.1	2436.2	2265.0	2037.9	1822.3
22°	3860.2	3755.6	3650.6	3517.8	3382.6	3189.6	2956.2	2662.9	2457.2	2192.1	1943.6
23°	4216.1	4109.9	4029.1	3847.1	3693.4	3475.8	3217.0	2881.7	2642.7	2338.7	2057.7
24°	4557.8	4441.6	4341.0	4157.5	3983.5	3741.3	3462.7	3094.1	2821.8	2478.6	2163.5
25°	4874.4	4746.4	4622.7	4434.1	4245.0	3980.7	3679.5	3286.3	2985.1	2605.4	2259.9
26°	5165.7	4990.9	4856.6	4682.2	4467.4	4190.0	3870.1	3452.4	3125.8	2711.3	2335.6
27°	5418.2	5241.4	5087.2	4900.6	4660.8	4362.0	4027.5	3571.7	3237.2	2790.5	2388.3
28°	5601.7	5452.3	5274.7	5073.8	4810.2	4480.5	4134.1	3666.8	3304.2	2831.8	2410.1
29°	5796.3	5626.2	5419.4	5191.1	4904.1	4555.0	4192.7	3716.4	3331.9	2841.3	2405.7
30°	5899.7	5743.2	5499.8	5250.9	4944.6	4578.8	4205.4	3723.9	3323.2	2818.3	2377.2
31°	5927.5	5781.2	5511.7	5252.1	4931.9	4555.4	4174.1	3685.0	3276.0	2764.8	2324.1
32°	5887.4	5741.2	5461.4	5201.4	4873.6	4490.0	4105.1	3615.7	3199.1	2684.7	2248.4
33°	5743.6	5625.1	5355.2	5105.1	4784.8	4392.9	4003.7	3502.7	3079.5	2580.9	2157.2
34°	5559.7	5449.1	5200.2	4943.8	4644.2	4259.7	3863.8	3366.0	2941.9	2453.3	2049.0
35°	5338.1	5229.1	4999.7	4744.8	4457.9	4082.6	3684.6	3194.4	2779.4	2309.0	1928.9
36°	5076.9	4963.6	4751.6	4509.0	4247.8	3868.5	3472.6	2997.0	2594.7	2152.1	1800.5
37°	4789.6	4675.5	4486.0	4261.3	4002.9	3627.6	3235.2	2779.4	2399.8	1989.2	1666.2
38°	4486.4	4380.2	4208.2	3983.9	3728.2	3359.7	2975.6	2580.5	2201.2	1824.3	1530.2
39°	4175.3	4063.5	3901.4	3681.1	3429.8	3066.0	2704.9	2351.8	2030.0	1662.2	1405.4
40°	3827.7	3722.3	3534.4	3361.6	3109.6	2763.2	2433.8	2099.3	1839.7	1506.4	1292.0
42.5°	2831.4	2748.9	2648.6	2471.5	2285.2	2036.7	1806.5	1574.6	1386.0	1196.9	1039.6
45°	1796.9	1736.3	1684.8	1574.6	1499.3	1359.4	1240.5	1122.0	1032.8	933.7	759.0
47.5°	665.0	636.5	618.3	569.9	565.6	520.8	516.4	573.5	607.2	571.5	430.0
50°	250.5	243.3	239.0	223.9	213.6	193.0	177.6	166.1	142.7	126.4	113.3
51°	164.5	159.3	151.8	150.6	146.2	134.8	127.6	125.2	109.4	92.3	79.3
52°	104.6	101.5	96.7	97.1	94.7	87.6	85.2	88.8	80.5	70.9	61.4
53°	65.8	64.2	61.0	61.0	60.6	55.9	55.1	58.3	56.7	52.3	46.8
54°	42.8	42.4	39.6	40.0	40.0	37.3	36.9	38.0	37.7	36.1	33.3
55°	29.3	28.9	28.5	27.3	26.6	25.8	25.8	26.2	25.8	25.0	23.4
57.5°	10.3	9.9	10.3	9.9	9.9	10.3	9.9	10.7	11.1	11.1	10.3
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.6	4.0	4.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.8	0.8	0.8
64°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
66°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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°	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2.5°	91.2	91.6	90.0	89.6	89.2	87.2	86.0	84.8	83.6	81.6	82.4
5°	122.1	122.1	118.5	116.1	114.9	110.6	108.6	105.8	102.6	100.3	99.1
7.5°	170.4	167.6	159.7	153.8	150.2	141.5	136.3	128.8	124.4	119.7	116.9
10°	361.4	342.8	304.0	276.2	250.1	218.4	189.4	166.9	152.2	141.5	134.8
11°	487.1	462.5	413.0	374.5	340.4	295.3	250.9	208.5	178.0	159.3	145.5
12°	625.0	593.3	533.9	486.3	444.7	388.0	331.3	275.4	231.5	196.6	168.0
13°	768.5	727.7	658.7	604.0	556.0	490.7	423.3	356.3	302.8	255.2	212.0
14°	910.8	860.8	785.1	722.1	668.2	595.3	518.8	444.3	381.7	321.8	269.1
15°	1040.0	985.3	918.7	836.2	778.0	684.5	612.3	528.7	457.4	388.0	326.6
17.5°	1271.8	1198.1	1119.6	1034.4	978.9	886.6	795.0	694.0	607.6	521.6	439.1
20°	1526.6	1395.1	1265.9	1139.0	1058.6	960.3	870.7	770.9	679.7	582.2	492.6
21°	1626.9	1476.3	1319.0	1176.7	1085.5	980.5	887.8	784.3	688.4	584.6	490.3
22°	1722.0	1542.1	1365.3	1208.4	1108.9	1001.5	901.6	793.0	690.8	581.8	483.1
23°	1808.8	1605.5	1408.1	1236.1	1126.0	1011.8	908.8	796.6	689.6	575.5	472.4
24°	1887.7	1663.8	1444.6	1256.8	1136.3	1015.0	908.0	793.8	683.7	566.0	457.8
25°	1955.9	1709.8	1471.2	1267.8	1139.0	1013.4	904.0	786.7	671.8	549.7	440.7
26°	2007.4	1739.1	1483.8	1269.4	1135.1	1008.3	894.9	773.6	653.1	527.9	417.7
27°	2037.1	1749.8	1483.8	1262.7	1127.2	998.7	880.2	753.4	629.0	501.0	389.2
28°	2042.3	1745.0	1473.1	1248.8	1112.1	982.1	858.8	727.7	600.4	468.9	357.9
29°	2028.8	1726.0	1450.2	1225.0	1089.9	960.7	831.1	695.2	566.4	433.6	325.4
30°	1995.5	1691.1	1416.1	1194.9	1063.3	932.6	796.2	659.1	527.9	397.1	288.1
31°	1943.6	1640.8	1372.5	1158.5	1030.4	898.9	757.8	617.5	484.7	351.9	247.7
32°	1874.6	1570.2	1324.1	1116.8	994.0	860.4	709.8	564.4	427.6	296.8	200.9
33°	1793.4	1501.3	1270.2	1072.1	954.4	807.7	643.6	485.1	357.9	235.4	152.2
34°	1700.6	1427.2	1212.4	1024.9	902.4	730.4	561.2	403.5	281.4	172.0	107.4
35°	1598.0	1348.3	1151.7	969.4	820.4	636.1	466.9	314.3	203.7	116.5	80.9
36°	1488.6	1259.9	1082.4	890.1	722.1	530.3	367.0	226.3	135.1	86.8	69.8
37°	1385.6	1183.0	1010.6	790.7	611.1	419.7	267.9	151.0	98.7	75.7	61.8
38°	1288.5	1108.9	917.1	680.5	497.0	314.7	176.4	111.4	85.6	66.6	54.7
39°	1197.7	1034.4	807.7	562.4	382.9	221.9	128.0	95.5	74.5	59.1	48.4
40°	1110.1	927.8	688.4	458.5	279.0	155.0	107.8	84.4	65.8	51.9	40.8
42.5°	832.7	596.1	381.3	208.9	131.2	101.1	76.9	59.4	43.6	32.1	24.6
45°	522.8	303.2	163.7	117.3	91.6	68.6	49.9	35.7	26.2	19.4	15.5
47.5°	237.8	130.4	101.5	78.5	59.1	40.8	29.3	21.4	15.9	12.3	9.1
50°	87.2	74.1	60.2	44.8	32.5	23.4	17.0	12.7	9.5	7.1	5.2
51°	68.2	59.4	48.0	33.7	25.8	19.0	13.9	10.3	7.5	5.5	4.0
52°	53.5	47.2	36.9	26.2	20.2	15.1	11.1	7.9	5.5	4.4	3.2
53°	41.2	36.1	27.7	20.2	15.9	11.9	8.7	6.3	4.4	3.2	2.4
54°	30.5	26.6	20.6	15.5	12.3	9.1	6.3	4.8	3.2	2.4	2.0
55°	21.8	19.4	15.5	12.3	9.5	7.1	4.8	3.6	2.4	1.6	1.6
57.5°	9.1	8.7	7.1	5.9	4.8	3.6	2.4	1.6	1.6	1.2	1.6
60°	3.6	3.6	3.2	2.4	2.0	1.6	1.2	1.2	1.2	1.2	1.2



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CATALOG NUMBER: LDSQA6A10827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
64°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6
65°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6
66°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6
67.5°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6
70°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6
72.5°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
75°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
77.5°	0.4	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6	1.6
80°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
82.5°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
85°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
87.5°	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.6	1.6
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: P208844

CATALOG NUMBER: LDSQA6A10827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2.5°	81.2	81.2	78.5	77.7	77.3	76.5	74.5	74.5	73.3	71.7	70.9
5°	96.3	95.5	91.2	88.8	86.8	84.4	80.5	78.9	76.5	74.1	72.1
7.5°	111.0	108.2	101.5	97.9	95.1	91.2	86.0	82.4	78.5	74.5	71.7
10°	125.6	120.1	110.6	104.6	99.5	93.9	87.6	83.6	78.5	73.3	69.4
11°	131.6	124.4	113.7	106.2	100.3	93.9	87.6	82.4	77.7	72.5	68.2
12°	143.1	129.6	116.9	108.6	101.1	93.9	86.8	81.2	76.1	70.9	66.6
13°	166.5	141.5	120.5	110.6	102.3	93.9	86.0	80.1	74.5	69.4	64.6
14°	208.9	166.1	130.0	112.6	102.6	93.9	85.2	78.1	72.5	67.0	62.6
15°	256.8	203.7	149.4	119.7	103.0	93.1	83.6	76.1	70.1	64.6	60.2
17.5°	356.3	285.0	211.6	155.4	113.0	90.8	77.7	70.1	63.4	57.9	52.7
20°	396.7	313.9	231.5	166.5	116.9	86.8	70.9	63.0	55.9	50.3	46.0
21°	391.6	308.3	225.5	158.9	109.4	81.2	67.4	59.8	53.1	47.2	43.2
22°	380.9	295.3	211.6	145.1	100.3	75.7	64.2	56.3	49.9	44.4	40.4
23°	366.6	276.6	195.8	130.4	90.8	70.5	61.0	53.1	47.2	41.6	38.0
24°	348.8	258.0	177.6	115.7	81.6	66.6	57.5	49.9	44.0	39.2	35.7
25°	329.0	238.6	158.1	103.4	76.1	62.6	53.5	46.4	41.2	36.9	33.3
26°	304.8	215.6	139.9	91.9	69.4	58.3	49.5	43.2	38.4	34.5	30.9
27°	277.0	191.8	119.7	80.1	63.8	53.9	46.0	40.4	36.1	32.1	28.5
28°	252.1	165.3	102.6	71.3	59.4	49.5	42.8	37.7	33.7	29.7	26.6
29°	220.8	139.9	87.6	64.6	54.7	46.4	39.6	34.9	30.9	27.0	24.2
30°	189.4	115.7	74.9	59.1	49.9	42.4	36.5	32.1	28.1	25.0	22.6
31°	156.9	95.9	65.8	54.3	45.6	39.2	33.7	29.7	25.8	23.0	20.6
32°	120.1	78.5	58.7	49.1	41.6	35.3	30.9	27.0	23.4	21.0	18.6
33°	90.4	66.2	53.1	44.4	37.7	32.5	28.1	24.2	21.4	19.0	17.0
34°	72.1	59.1	48.0	40.0	34.1	29.3	25.0	21.8	19.0	17.0	15.1
35°	63.4	53.1	42.8	36.1	30.5	25.8	22.2	19.4	17.0	15.1	13.5
36°	56.3	47.6	38.0	32.1	26.6	22.6	19.4	17.0	14.7	13.1	11.9
37°	50.3	42.0	33.7	27.7	23.0	19.8	17.0	14.7	12.7	11.5	10.7
38°	45.2	36.1	28.5	23.8	19.8	17.0	14.7	12.7	11.1	9.9	9.1
39°	38.4	30.5	23.8	20.2	16.6	14.3	12.3	11.1	9.5	8.7	7.9
40°	32.1	25.4	19.8	16.6	14.3	11.9	10.7	9.1	8.3	7.5	6.7
42.5°	19.8	15.9	12.7	10.7	9.1	7.9	7.1	6.3	5.5	5.2	4.8
45°	12.3	9.9	7.9	6.7	5.5	5.2	4.8	4.0	4.0	3.6	3.6
47.5°	7.1	5.9	4.4	4.0	3.2	3.2	2.8	2.8	2.4	2.8	2.4
50°	4.0	2.8	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
51°	3.2	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.0
52°	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
53°	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
54°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
55°	1.6	1.6	1.6	1.6	1.6	1.2	1.6	1.6	1.6	1.6	1.6
57.5°	1.6	1.6	1.2	1.2	1.6	1.2	1.6	1.6	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



TEST NUMBER: P208844

CATALOG NUMBER: LDSQA6A10827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
64°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
66°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	2.0	2.0	2.0	2.0	1.6	1.6	1.6	1.6
72.5°	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.6
75°	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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: P208844

CATALOG NUMBER: LDSQA6A10827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2.5°	70.5	70.5	70.1	69.4	63.4	58.3	55.1	54.7
5°	70.9	70.1	68.6	67.4	56.7	49.9	46.0	45.6
7.5°	69.4	67.8	65.8	63.4	50.3	43.2	39.6	38.8
10°	66.6	63.8	61.4	58.3	44.4	37.7	34.5	33.7
11°	64.6	61.8	59.4	56.3	42.0	35.7	32.5	32.1
12°	63.0	59.8	56.7	53.9	39.6	33.7	30.9	30.5
13°	60.6	57.5	54.7	51.5	37.7	32.1	29.3	28.9
14°	58.7	55.1	52.3	49.5	35.7	30.1	28.1	27.7
15°	56.3	52.7	49.5	46.8	33.7	28.5	27.0	26.6
17.5°	49.9	46.0	43.2	40.4	28.9	25.0	23.8	24.2
20°	42.4	39.2	36.9	34.5	24.6	21.8	21.4	21.8
21°	39.6	36.9	34.9	32.5	23.0	20.6	20.6	21.0
22°	37.3	34.5	32.5	30.1	21.8	19.4	19.4	20.2
23°	34.9	32.1	30.1	28.1	20.2	18.6	18.6	19.4
24°	32.5	30.1	28.1	26.2	19.0	17.4	17.8	18.6
25°	30.1	28.1	26.2	24.6	17.8	16.6	17.0	17.8
26°	28.5	26.2	24.6	22.6	16.6	15.9	16.2	17.4
27°	26.2	24.2	22.6	21.0	15.9	15.1	15.9	16.6
28°	24.6	22.6	21.0	19.4	14.7	14.3	15.1	16.2
29°	22.6	21.0	19.4	18.2	13.9	13.5	14.7	15.5
30°	20.6	19.0	17.8	16.6	13.1	12.7	13.9	15.1
31°	19.0	17.8	16.6	15.5	12.3	12.3	13.5	14.7
32°	17.4	16.2	15.1	13.9	11.5	11.5	13.1	13.9
33°	15.9	14.7	13.5	12.7	10.7	11.1	12.3	13.5
34°	13.9	13.1	12.3	11.5	9.9	10.3	11.9	13.1
35°	12.7	11.9	11.1	10.3	9.5	9.9	11.5	12.7
36°	11.1	10.7	9.9	9.5	8.7	9.5	11.1	12.3
37°	9.9	9.5	8.7	8.3	8.3	9.1	10.7	11.9
38°	8.7	8.3	7.9	7.5	7.9	8.7	10.3	11.5
39°	7.5	7.1	7.1	6.7	7.5	8.3	9.9	11.1
40°	6.7	6.3	6.3	5.9	7.1	7.9	9.5	11.1
42.5°	4.8	4.8	4.8	4.8	5.9	7.1	8.7	10.3
45°	3.6	3.6	3.6	3.6	5.2	6.3	7.5	9.5
47.5°	2.8	2.8	2.8	2.8	4.8	5.9	7.1	8.3
50°	2.0	2.0	2.4	2.4	4.4	5.2	6.3	7.5
51°	2.0	2.0	2.0	2.4	4.0	5.2	5.9	7.1
52°	2.0	2.0	2.0	2.0	4.0	4.8	5.5	6.3
53°	1.6	2.0	2.0	2.0	3.6	4.8	5.2	5.9
54°	1.6	1.6	1.6	2.0	3.6	4.4	4.8	5.5
55°	1.6	1.6	1.6	2.0	3.2	4.4	4.8	4.8
57.5°	1.6	1.6	1.6	1.6	3.2	4.0	4.4	4.0
60°	1.6	1.6	1.6	1.6	2.8	3.6	4.0	2.8



TEST NUMBER: P208844

CATALOG NUMBER: LDSQA6A10827D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	1.6	1.6	1.6	1.6	2.8	3.2	3.2	2.4
64°	1.6	1.6	1.6	1.6	2.8	3.2	3.2	2.4
65°	1.6	1.6	1.6	1.6	2.8	2.8	2.8	2.0
66°	1.6	1.6	1.6	1.6	2.8	2.8	2.8	2.0
67.5°	1.6	1.6	1.6	1.6	2.8	2.8	2.4	2.0
70°	1.6	1.6	1.6	2.0	2.4	2.4	2.4	2.0
72.5°	1.6	1.6	1.6	2.0	2.4	2.4	2.0	1.6
75°	2.0	2.0	2.0	2.0	2.4	2.4	2.0	1.2
77.5°	2.0	2.0	2.0	2.0	2.4	2.0	1.6	1.2
80°	2.0	2.0	1.6	1.6	2.0	2.0	1.2	0.8
82.5°	2.0	2.0	1.6	1.6	2.0	1.6	1.2	0.8
85°	2.0	2.0	1.6	1.6	2.0	1.6	0.8	0.4
87.5°	2.0	1.6	1.6	1.6	2.0	1.6	0.4	0.4
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°	1.2	1.2	1.2	1.2	1.6	1.2	1.6	2.0	2.4	2.4	2.4
62°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6





61°	2.4	2.4	2.0	2.0	1.6	1.2	1.2	1.2	1.2	1.2	1.2
62°	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6





61°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6





61°	1.6	1.6	1.6	1.6	2.8	3.6	3.6	2.8
62°	1.6	1.6	1.6	1.6	2.8	3.2	3.6	2.4



(END OF REPORT)