

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: P208866

Luminaire Tested: **LDSQA6A20935D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208866
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: LDSQA6A20935D010TE 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: 1589.4 lumens
Efficiency: N/A
Efficacy: 55.2 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

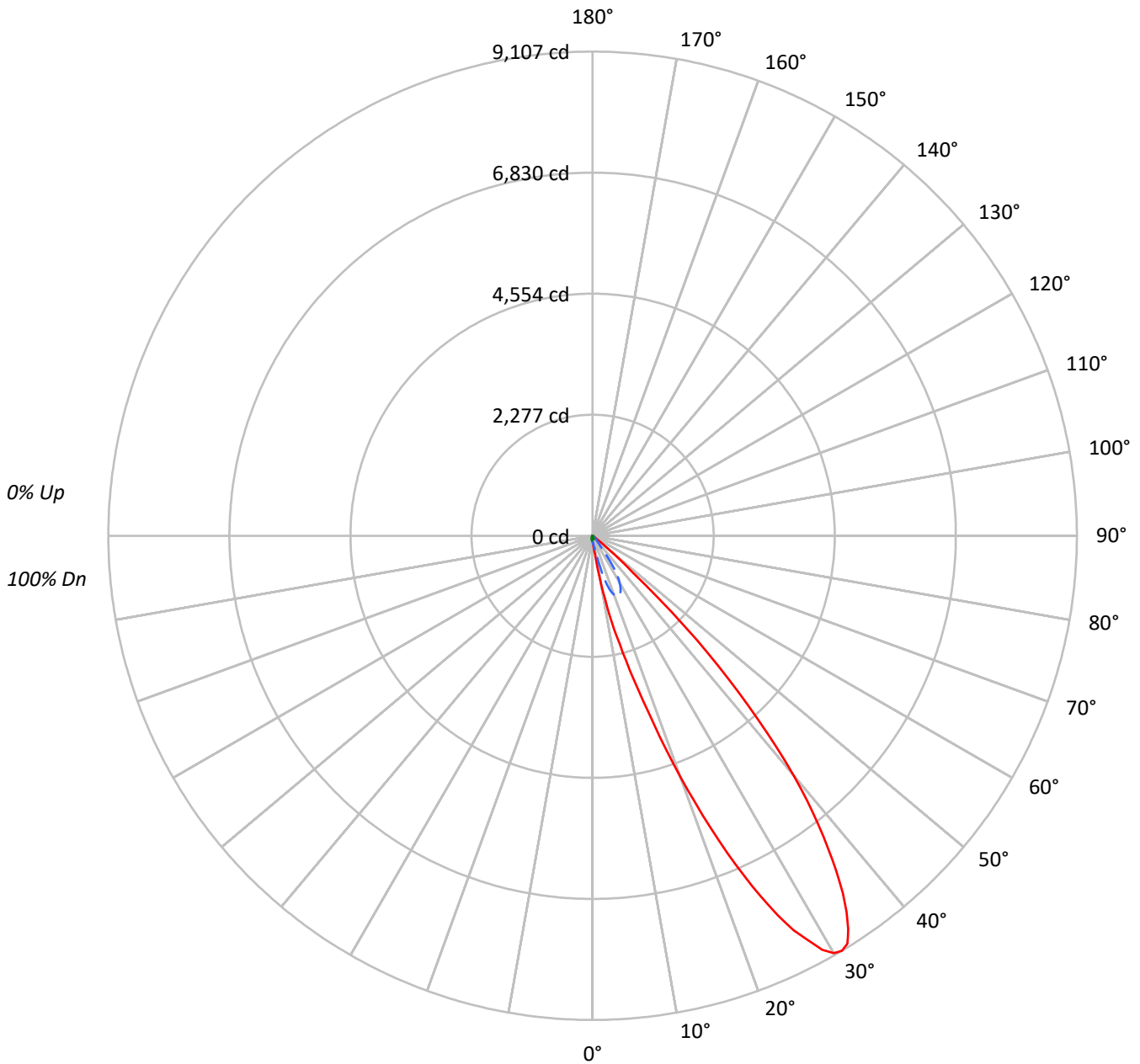
Input Watts (W): 28.81
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82																			
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74																			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60																			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4616	4616	4616
5°	9210	4473	3025
10°	41425	3913	2265
15°	108601	3205	1819
20°	221117	2428	1535
25°	355796	1796	1302
30°	450664	1273	1148
35°	431097	830	1025
40°	330554	511	961
45°	168111	335	889
50°	25782	248	777
55°	3385	225	548
60°	370	207	370
65°	61	245	306
70°	76	378	378
75°	0	499	299
80°	0	595	298
85°	0	1186	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	0.9
10°-20°	157.2	9.9
20°-30°	514.6	32.4
30°-40°	626.4	39.4
40°-50°	254.5	16.0
50°-60°	15.1	1.0
60°-70°	2.9	0.2
70°-80°	2.6	0.2
80°-90°	1.8	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°	686.1	43.2
0°-40°	1312.5	82.6
0°-60°	1582.1	99.5
0°-90°	1589.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	213	163	104	77	70	40
15°	2436	812	72	44	41	793
25°	7489	1209	38	26	27	3442
35°	8202	483	16	15	20	4961
45°	2761	55	6	10	15	2118
55°	45	6	3	7	7	78
65°	1	2	2	4	3	1
75°	0	2	3	4	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°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
2.5°	151.0	144.3	147.4	146.8	144.3	144.9	146.1	143.7	144.9	141.3	141.9
5°	213.1	203.4	208.9	202.8	205.8	202.8	202.8	199.1	196.1	195.5	192.4
7.5°	372.1	348.3	355.6	329.4	333.7	325.2	317.3	308.7	294.1	286.8	271.0
10°	947.5	880.5	896.4	839.1	837.9	817.8	780.7	755.1	700.9	662.5	607.7
11°	1198.4	1152.7	1166.7	1104.0	1101.0	1073.6	1029.7	961.5	931.1	879.9	811.7
12°	1526.0	1449.3	1457.8	1389.0	1382.3	1345.8	1296.4	1212.4	1175.9	1113.8	1033.4
13°	1823.8	1755.6	1756.2	1681.3	1673.4	1627.1	1572.9	1471.2	1430.4	1361.0	1264.2
14°	2097.2	2045.4	2035.1	1994.9	1952.3	1898.1	1840.8	1725.7	1680.7	1602.7	1491.9
15°	2436.4	2335.3	2315.2	2264.7	2212.9	2144.7	2074.7	1943.1	1893.2	1807.3	1697.1
17.5°	3436.9	3312.0	3257.2	3154.3	3056.9	2926.0	2774.3	2541.1	2426.0	2272.0	2099.6
20°	4825.9	4629.2	4519.0	4353.9	4196.8	3982.5	3720.6	3353.4	3182.9	2884.6	2602.0
21°	5375.7	5206.5	5068.2	4882.5	4696.8	4442.8	4131.7	3743.2	3480.1	3131.2	2799.9
22°	5931.1	5770.3	5609.0	5405.0	5197.3	4900.8	4542.1	4091.5	3775.4	3368.1	2986.3
23°	6477.9	6314.7	6190.5	5911.0	5674.7	5340.4	4942.8	4427.6	4060.4	3593.4	3161.6
24°	7002.8	6824.4	6669.7	6387.8	6120.5	5748.4	5320.3	4754.0	4335.7	3808.3	3324.2
25°	7489.4	7292.7	7102.7	6812.8	6522.4	6116.2	5653.4	5049.3	4586.5	4003.2	3472.2
26°	7936.9	7668.4	7462.0	7194.0	6864.0	6437.7	5946.3	5304.5	4802.7	4165.8	3588.5
27°	8324.8	8053.3	7816.4	7529.6	7161.2	6702.0	6188.1	5487.8	4973.8	4287.6	3669.5
28°	8606.8	8377.2	8104.4	7795.7	7390.7	6884.1	6351.9	5633.9	5076.7	4350.9	3703.0
29°	8905.8	8644.5	8326.7	7975.9	7535.0	6998.6	6442.0	5710.0	5119.4	4365.5	3696.3
30°	9064.7	8824.2	8450.3	8067.9	7597.2	7035.1	6461.5	5721.6	5106.0	4330.2	3652.4
31°	9107.3	8882.6	8468.6	8069.7	7577.7	6999.2	6413.4	5661.9	5033.5	4248.0	3570.8
32°	9045.8	8821.1	8391.2	7991.8	7488.2	6898.7	6307.4	5555.4	4915.4	4125.0	3454.5
33°	8824.8	8642.7	8228.0	7843.8	7351.8	6749.5	6151.5	5381.8	4731.5	3965.4	3314.5
34°	8542.2	8372.3	7989.9	7595.9	7135.6	6544.9	5936.6	5171.7	4520.2	3769.3	3148.2
35°	8201.8	8034.4	7681.8	7290.3	6849.4	6272.7	5661.3	4908.1	4270.5	3547.7	2963.7
36°	7800.5	7626.4	7300.6	6927.9	6526.6	5943.9	5335.5	4604.8	3986.7	3306.6	2766.4
37°	7359.1	7183.7	6892.6	6547.3	6150.3	5573.6	4970.8	4270.5	3687.1	3056.3	2560.0
38°	6893.2	6730.0	6465.7	6121.1	5728.3	5162.0	4571.9	3964.8	3382.1	2803.0	2351.1
39°	6415.2	6243.5	5994.4	5655.9	5269.8	4710.8	4156.0	3613.5	3119.0	2553.9	2159.3
40°	5881.2	5719.2	5430.5	5165.0	4777.8	4245.5	3739.5	3225.6	2826.7	2314.6	1985.1
42.5°	4350.3	4223.6	4069.6	3797.4	3511.2	3129.4	2775.6	2419.3	2129.5	1839.0	1597.3
45°	2760.9	2667.8	2588.6	2419.3	2303.6	2088.7	1906.0	1723.9	1586.9	1434.7	1166.1
47.5°	1021.8	978.0	949.9	875.7	869.0	800.1	793.5	881.1	932.9	878.1	660.7
50°	384.9	373.9	367.2	344.1	328.2	296.6	272.8	255.1	219.2	194.3	174.2
51°	252.7	244.8	233.2	231.4	224.7	207.0	196.1	192.4	168.1	141.9	121.8
52°	160.8	155.9	148.6	149.2	145.5	134.6	130.9	136.4	123.6	109.0	94.4
53°	101.1	98.6	93.8	93.8	93.2	85.9	84.6	89.5	87.1	80.4	71.9
54°	65.8	65.2	60.9	61.5	61.5	57.2	56.6	58.5	57.8	55.4	51.2
55°	45.1	44.5	43.8	42.0	40.8	39.6	39.6	40.2	39.6	38.4	35.9
57.5°	15.8	15.2	15.8	15.2	15.2	15.8	15.2	16.4	17.1	17.1	15.8
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.5	6.1	6.1	6.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	1.2	1.2	1.2
64°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
66°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	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	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
2.5°	140.1	140.7	138.2	137.6	137.0	134.0	132.1	130.3	128.5	125.4	126.7
5°	187.6	187.6	182.1	178.4	176.6	169.9	166.9	162.6	157.7	154.1	152.2
7.5°	261.8	257.6	245.4	236.3	230.8	217.4	209.5	197.9	191.2	183.9	179.6
10°	555.4	526.7	467.1	424.4	384.2	335.5	291.1	256.4	233.8	217.4	207.0
11°	748.4	710.6	634.5	575.4	523.1	453.7	385.5	320.3	273.4	244.8	223.5
12°	960.3	911.6	820.2	747.2	683.2	596.2	509.1	423.2	355.6	302.0	258.2
13°	1180.7	1118.0	1012.1	928.0	854.3	753.9	650.3	547.4	465.2	392.2	325.8
14°	1399.3	1322.6	1206.3	1109.5	1026.7	914.6	797.1	682.6	586.4	494.5	413.5
15°	1597.9	1513.8	1411.5	1284.9	1195.4	1051.6	940.8	812.3	702.7	596.2	501.8
17.5°	1954.1	1840.8	1720.3	1589.3	1504.1	1362.2	1221.5	1066.3	933.5	801.4	674.7
20°	2345.6	2143.5	1945.0	1750.1	1626.5	1475.5	1337.8	1184.4	1044.3	894.5	756.9
21°	2499.7	2268.3	2026.6	1807.9	1667.9	1506.5	1364.0	1205.1	1057.7	898.2	753.3
22°	2645.9	2369.4	2097.8	1856.7	1703.8	1538.8	1385.3	1218.5	1061.4	893.9	742.3
23°	2779.2	2466.8	2163.6	1899.3	1730.0	1554.6	1396.3	1224.0	1059.6	884.2	725.9
24°	2900.4	2556.3	2219.6	1931.0	1745.8	1559.5	1395.1	1219.7	1050.4	869.6	703.3
25°	3005.1	2627.0	2260.4	1948.0	1750.1	1557.1	1389.0	1208.7	1032.2	844.6	677.1
26°	3084.3	2672.0	2279.9	1950.4	1744.0	1549.1	1375.0	1188.7	1003.5	811.1	641.8
27°	3130.0	2688.5	2279.9	1940.1	1731.8	1534.5	1352.5	1157.6	966.4	769.7	598.0
28°	3137.9	2681.2	2263.4	1918.8	1708.7	1509.0	1319.6	1118.0	922.5	720.4	549.9
29°	3117.2	2651.9	2228.1	1882.2	1674.6	1476.1	1277.0	1068.1	870.2	666.2	499.9
30°	3066.0	2598.4	2175.7	1836.0	1633.8	1432.8	1223.4	1012.7	811.1	610.2	442.7
31°	2986.3	2521.0	2108.8	1779.9	1583.2	1381.1	1164.3	948.7	744.7	540.7	380.6
32°	2880.3	2412.6	2034.5	1716.0	1527.2	1322.0	1090.6	867.1	657.0	456.1	308.7
33°	2755.5	2306.7	1951.7	1647.2	1466.3	1241.0	988.9	745.3	549.9	361.7	233.8
34°	2613.0	2192.8	1862.8	1574.7	1386.6	1122.3	862.3	619.9	432.3	264.3	165.0
35°	2455.3	2071.6	1769.6	1489.5	1260.5	977.4	717.3	482.9	313.0	179.0	124.2
36°	2287.2	1935.8	1663.0	1367.7	1109.5	814.8	563.9	347.7	207.6	133.4	107.2
37°	2128.9	1817.7	1552.8	1214.8	939.0	644.9	411.6	232.0	151.6	116.3	95.0
38°	1979.7	1703.8	1409.1	1045.6	763.6	483.5	271.0	171.1	131.5	102.3	84.0
39°	1840.2	1589.3	1241.0	864.1	588.2	341.0	196.7	146.8	114.5	90.7	74.3
40°	1705.6	1425.5	1057.7	704.5	428.7	238.1	165.6	129.7	101.1	79.8	62.7
42.5°	1279.4	915.8	585.8	320.9	201.6	155.3	118.1	91.3	67.0	49.3	37.8
45°	803.2	465.8	251.5	180.2	140.7	105.3	76.7	54.8	40.2	29.8	23.7
47.5°	365.4	200.3	155.9	120.6	90.7	62.7	45.1	32.9	24.4	18.9	14.0
50°	134.0	113.9	92.6	68.8	49.9	35.9	26.2	19.5	14.6	11.0	7.9
51°	104.7	91.3	73.7	51.8	39.6	29.2	21.3	15.8	11.6	8.5	6.1
52°	82.2	72.5	56.6	40.2	31.1	23.1	17.1	12.2	8.5	6.7	4.9
53°	63.3	55.4	42.6	31.1	24.4	18.3	13.4	9.7	6.7	4.9	3.7
54°	46.9	40.8	31.7	23.7	18.9	14.0	9.7	7.3	4.9	3.7	3.0
55°	33.5	29.8	23.7	18.9	14.6	11.0	7.3	5.5	3.7	2.4	2.4
57.5°	14.0	13.4	11.0	9.1	7.3	5.5	3.7	2.4	2.4	1.8	2.4
60°	5.5	5.5	4.9	3.7	3.0	2.4	1.8	1.8	1.8	1.8	1.8



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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°	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4
64°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	2.4
65°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4
66°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4
67.5°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4
70°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4
72.5°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
75°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
77.5°	0.6	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4	2.4
80°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
82.5°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
85°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
87.5°	0.6	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	2.4	2.4
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: P208866

CATALOG NUMBER: LDSQA6A20935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
2.5°	124.8	124.8	120.6	119.4	118.7	117.5	114.5	114.5	112.7	110.2	109.0
5°	148.0	146.8	140.1	136.4	133.4	129.7	123.6	121.2	117.5	113.9	110.8
7.5°	170.5	166.2	155.9	150.4	146.1	140.1	132.1	126.7	120.6	114.5	110.2
10°	193.0	184.5	169.9	160.8	152.8	144.3	134.6	128.5	120.6	112.7	106.6
11°	202.2	191.2	174.8	163.2	154.1	144.3	134.6	126.7	119.4	111.4	104.7
12°	219.8	199.1	179.6	166.9	155.3	144.3	133.4	124.8	116.9	109.0	102.3
13°	255.8	217.4	185.1	169.9	157.1	144.3	132.1	123.0	114.5	106.6	99.3
14°	320.9	255.1	199.7	172.9	157.7	144.3	130.9	120.0	111.4	102.9	96.2
15°	394.6	313.0	229.6	183.9	158.3	143.1	128.5	116.9	107.8	99.3	92.6
17.5°	547.4	437.8	325.2	238.7	173.5	139.4	119.4	107.8	97.4	88.9	81.0
20°	609.6	482.3	355.6	255.8	179.6	133.4	109.0	96.8	85.9	77.3	70.6
21°	601.6	473.8	346.5	244.2	168.1	124.8	103.5	92.0	81.6	72.5	66.4
22°	585.2	453.7	325.2	222.9	154.1	116.3	98.6	86.5	76.7	68.2	62.1
23°	563.3	425.0	300.8	200.3	139.4	108.4	93.8	81.6	72.5	63.9	58.5
24°	535.9	396.4	272.8	177.8	125.4	102.3	88.3	76.7	67.6	60.3	54.8
25°	505.4	366.6	243.0	158.9	116.9	96.2	82.2	71.2	63.3	56.6	51.2
26°	468.3	331.3	215.0	141.3	106.6	89.5	76.1	66.4	59.1	53.0	47.5
27°	425.7	294.7	183.9	123.0	98.0	82.8	70.6	62.1	55.4	49.3	43.8
28°	387.3	253.9	157.7	109.6	91.3	76.1	65.8	57.8	51.8	45.7	40.8
29°	339.2	215.0	134.6	99.3	84.0	71.2	60.9	53.6	47.5	41.4	37.1
30°	291.1	177.8	115.1	90.7	76.7	65.2	56.0	49.3	43.2	38.4	34.7
31°	241.1	147.4	101.1	83.4	70.0	60.3	51.8	45.7	39.6	35.3	31.7
32°	184.5	120.6	90.1	75.5	63.9	54.2	47.5	41.4	35.9	32.3	28.6
33°	138.8	101.7	81.6	68.2	57.8	49.9	43.2	37.1	32.9	29.2	26.2
34°	110.8	90.7	73.7	61.5	52.4	45.1	38.4	33.5	29.2	26.2	23.1
35°	97.4	81.6	65.8	55.4	46.9	39.6	34.1	29.8	26.2	23.1	20.7
36°	86.5	73.1	58.5	49.3	40.8	34.7	29.8	26.2	22.5	20.1	18.3
37°	77.3	64.5	51.8	42.6	35.3	30.4	26.2	22.5	19.5	17.7	16.4
38°	69.4	55.4	43.8	36.5	30.4	26.2	22.5	19.5	17.1	15.2	14.0
39°	59.1	46.9	36.5	31.1	25.6	21.9	18.9	17.1	14.6	13.4	12.2
40°	49.3	39.0	30.4	25.6	21.9	18.3	16.4	14.0	12.8	11.6	10.4
42.5°	30.4	24.4	19.5	16.4	14.0	12.2	11.0	9.7	8.5	7.9	7.3
45°	18.9	15.2	12.2	10.4	8.5	7.9	7.3	6.1	6.1	5.5	5.5
47.5°	11.0	9.1	6.7	6.1	4.9	4.9	4.3	4.3	3.7	4.3	3.7
50°	6.1	4.3	3.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
51°	4.9	3.7	3.0	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.0
52°	3.7	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
53°	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
54°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
55°	2.4	2.4	2.4	2.4	2.4	1.8	2.4	2.4	2.4	2.4	2.4
57.5°	2.4	2.4	1.8	1.8	2.4	1.8	2.4	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P208866

CATALOG NUMBER: LDSQA6A20935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
64°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
66°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	2.4	2.4	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4	2.4
72.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4
75°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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: P208866

CATALOG NUMBER: LDSQA6A20935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
2.5°	108.4	108.4	107.8	106.6	97.4	89.5	84.6	84.0
5°	109.0	107.8	105.3	103.5	87.1	76.7	70.6	70.0
7.5°	106.6	104.1	101.1	97.4	77.3	66.4	60.9	59.7
10°	102.3	98.0	94.4	89.5	68.2	57.8	53.0	51.8
11°	99.3	95.0	91.3	86.5	64.5	54.8	49.9	49.3
12°	96.8	92.0	87.1	82.8	60.9	51.8	47.5	46.9
13°	93.2	88.3	84.0	79.2	57.8	49.3	45.1	44.5
14°	90.1	84.6	80.4	76.1	54.8	46.3	43.2	42.6
15°	86.5	81.0	76.1	71.9	51.8	43.8	41.4	40.8
17.5°	76.7	70.6	66.4	62.1	44.5	38.4	36.5	37.1
20°	65.2	60.3	56.6	53.0	37.8	33.5	32.9	33.5
21°	60.9	56.6	53.6	49.9	35.3	31.7	31.7	32.3
22°	57.2	53.0	49.9	46.3	33.5	29.8	29.8	31.1
23°	53.6	49.3	46.3	43.2	31.1	28.6	28.6	29.8
24°	49.9	46.3	43.2	40.2	29.2	26.8	27.4	28.6
25°	46.3	43.2	40.2	37.8	27.4	25.6	26.2	27.4
26°	43.8	40.2	37.8	34.7	25.6	24.4	25.0	26.8
27°	40.2	37.1	34.7	32.3	24.4	23.1	24.4	25.6
28°	37.8	34.7	32.3	29.8	22.5	21.9	23.1	25.0
29°	34.7	32.3	29.8	28.0	21.3	20.7	22.5	23.7
30°	31.7	29.2	27.4	25.6	20.1	19.5	21.3	23.1
31°	29.2	27.4	25.6	23.7	18.9	18.9	20.7	22.5
32°	26.8	25.0	23.1	21.3	17.7	17.7	20.1	21.3
33°	24.4	22.5	20.7	19.5	16.4	17.1	18.9	20.7
34°	21.3	20.1	18.9	17.7	15.2	15.8	18.3	20.1
35°	19.5	18.3	17.1	15.8	14.6	15.2	17.7	19.5
36°	17.1	16.4	15.2	14.6	13.4	14.6	17.1	18.9
37°	15.2	14.6	13.4	12.8	12.8	14.0	16.4	18.3
38°	13.4	12.8	12.2	11.6	12.2	13.4	15.8	17.7
39°	11.6	11.0	11.0	10.4	11.6	12.8	15.2	17.1
40°	10.4	9.7	9.7	9.1	11.0	12.2	14.6	17.1
42.5°	7.3	7.3	7.3	7.3	9.1	11.0	13.4	15.8
45°	5.5	5.5	5.5	5.5	7.9	9.7	11.6	14.6
47.5°	4.3	4.3	4.3	4.3	7.3	9.1	11.0	12.8
50°	3.0	3.0	3.7	3.7	6.7	7.9	9.7	11.6
51°	3.0	3.0	3.0	3.7	6.1	7.9	9.1	11.0
52°	3.0	3.0	3.0	3.0	6.1	7.3	8.5	9.7
53°	2.4	3.0	3.0	3.0	5.5	7.3	7.9	9.1
54°	2.4	2.4	2.4	3.0	5.5	6.7	7.3	8.5
55°	2.4	2.4	2.4	3.0	4.9	6.7	7.3	7.3
57.5°	2.4	2.4	2.4	2.4	4.9	6.1	6.7	6.1
60°	2.4	2.4	2.4	2.4	4.3	5.5	6.1	4.3



TEST NUMBER: P208866

CATALOG NUMBER: LDSQA6A20935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.4	2.4	2.4	2.4	4.3	4.9	4.9	3.7
64°	2.4	2.4	2.4	2.4	4.3	4.9	4.9	3.7
65°	2.4	2.4	2.4	2.4	4.3	4.3	4.3	3.0
66°	2.4	2.4	2.4	2.4	4.3	4.3	4.3	3.0
67.5°	2.4	2.4	2.4	2.4	4.3	4.3	3.7	3.0
70°	2.4	2.4	2.4	3.0	3.7	3.7	3.7	3.0
72.5°	2.4	2.4	2.4	3.0	3.7	3.7	3.0	2.4
75°	3.0	3.0	3.0	3.0	3.7	3.7	3.0	1.8
77.5°	3.0	3.0	3.0	3.0	3.7	3.0	2.4	1.8
80°	3.0	3.0	2.4	2.4	3.0	3.0	1.8	1.2
82.5°	3.0	3.0	2.4	2.4	3.0	2.4	1.8	1.2
85°	3.0	3.0	2.4	2.4	3.0	2.4	1.2	0.6
87.5°	3.0	2.4	2.4	2.4	3.0	2.4	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°	1.8	1.8	1.8	1.8	2.4	1.8	2.4	3.0	3.7	3.7	3.7
62°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4





61°	3.7	3.7	3.0	3.0	2.4	1.8	1.8	1.8	1.8	1.8	1.8
62°	2.4	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4





61°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4





61°	2.4	2.4	2.4	2.4	4.3	5.5	5.5	4.3
62°	2.4	2.4	2.4	2.4	4.3	4.9	5.5	3.7



(END OF REPORT)