

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: P208875

Luminaire Tested: **LDSQA6A30940D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208875
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: LDSQA6A30940D010TE 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2387.8 lumens
Efficiency: N/A
Efficacy: 53.5 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

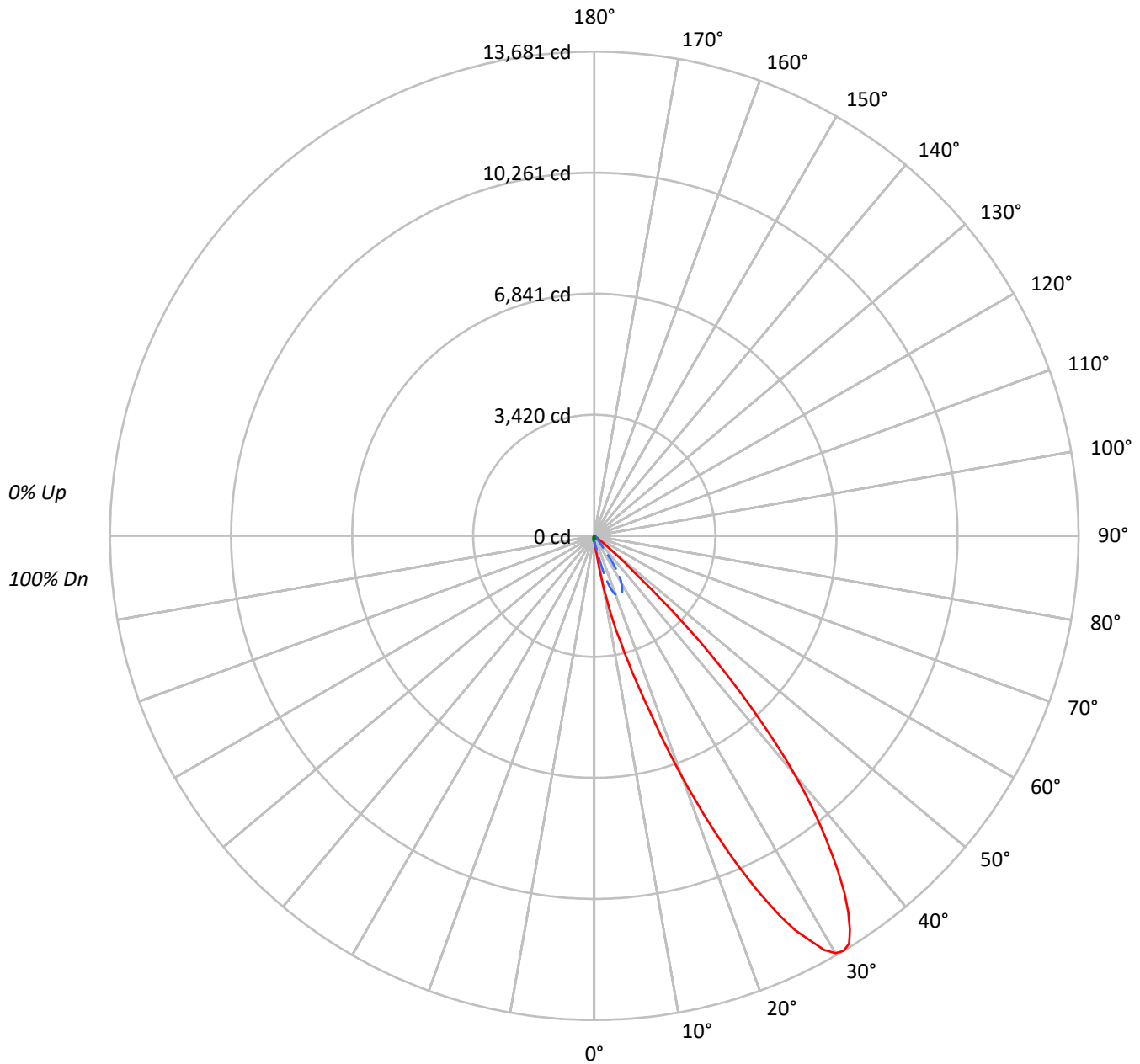
Input Watts (W): 44.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	79	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°	6932	6932	6932
5°	13839	6721	4547
10°	62231	5880	3401
15°	163143	4810	2732
20°	332169	3647	2305
25°	534488	2694	1957
30°	677003	1909	1730
35°	647612	1251	1540
40°	496567	770	1439
45°	252547	499	1340
50°	38723	368	1165
55°	5082	345	826
60°	551	319	551
65°	92	377	469
70°	113	579	579
75°	0	765	449
80°	0	917	446
85°	0	1828	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.9
10°-20°	236.1	9.9
20°-30°	773.0	32.4
30°-40°	941.0	39.4
40°-50°	382.3	16.0
50°-60°	22.7	1.0
60°-70°	4.4	0.2
70°-80°	3.9	0.2
80°-90°	2.8	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°	1030.7	43.2
0°-40°	1971.6	82.6
0°-60°	2376.6	99.5
0°-90°	2387.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	161	161	161	161	161	
5°	320	244	156	115	105	61
15°	3660	1220	108	66	61	1191
25°	11251	1816	57	38	41	5170
35°	12321	725	24	23	29	7452
45°	4148	82	8	15	22	3182
55°	68	8	5	10	11	117
65°	1	3	4	6	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°	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0
2.5°	226.9	216.8	221.4	220.5	216.8	217.7	219.5	215.9	217.7	212.2	213.1
5°	320.2	305.5	313.8	304.6	309.2	304.6	304.6	299.1	294.6	293.6	289.1
7.5°	558.9	523.2	534.2	494.9	501.3	488.5	476.6	463.8	441.8	430.9	407.1
10°	1423.4	1322.8	1346.5	1260.6	1258.7	1228.5	1172.7	1134.3	1052.9	995.3	912.9
11°	1800.3	1731.7	1752.7	1658.5	1653.9	1612.7	1546.9	1444.4	1398.7	1321.8	1219.4
12°	2292.4	2177.2	2190.0	2086.6	2076.5	2021.6	1947.6	1821.3	1766.4	1673.1	1552.4
13°	2739.7	2637.3	2638.2	2525.7	2513.8	2444.3	2362.9	2210.1	2148.8	2044.5	1899.1
14°	3150.5	3072.7	3057.2	2996.8	2932.8	2851.3	2765.4	2592.5	2524.8	2407.7	2241.2
15°	3660.0	3508.2	3478.0	3402.0	3324.3	3221.8	3116.6	2919.0	2844.0	2715.0	2549.5
17.5°	5163.0	4975.4	4893.1	4738.5	4592.2	4395.5	4167.7	3817.3	3644.5	3413.0	3154.1
20°	7249.6	6954.1	6788.5	6540.6	6304.6	5982.6	5589.3	5037.7	4781.5	4333.3	3908.8
21°	8075.6	7821.3	7613.7	7334.6	7055.6	6674.2	6206.7	5623.1	5227.9	4703.8	4206.1
22°	8909.9	8668.4	8426.0	8119.5	7807.6	7362.1	6823.3	6146.4	5671.6	5059.6	4486.0
23°	9731.3	9486.2	9299.6	8879.7	8524.8	8022.6	7425.2	6651.3	6099.7	5398.1	4749.5
24°	10519.9	10251.9	10019.5	9596.0	9194.4	8635.5	7992.4	7141.6	6513.2	5721.0	4993.7
25°	11250.8	10955.3	10669.9	10234.5	9798.1	9188.0	8492.7	7585.3	6890.1	6013.7	5216.0
26°	11923.1	11519.7	11209.6	10807.1	10311.3	9671.0	8932.8	7968.6	7214.8	6258.0	5390.8
27°	12505.9	12097.9	11742.0	11311.2	10757.7	10068.0	9295.9	8243.9	7471.9	6440.9	5512.4
28°	12929.4	12584.5	12174.7	11710.9	11102.6	10341.5	9542.0	8463.5	7626.5	6536.0	5562.7
29°	13378.5	12986.1	12508.6	11981.7	11319.4	10513.5	9677.4	8577.8	7690.5	6558.0	5552.7
30°	13617.3	13256.0	12694.3	12119.8	11412.7	10568.4	9706.7	8595.2	7670.4	6504.9	5486.8
31°	13681.3	13343.8	12721.7	12122.6	11383.4	10514.4	9634.4	8505.6	7561.5	6381.5	5364.2
32°	13588.9	13251.4	12605.6	12005.5	11249.0	10363.5	9475.2	8345.5	7384.0	6196.7	5189.5
33°	13256.9	12983.4	12360.4	11783.2	11044.0	10139.3	9241.0	8084.8	7107.8	5957.0	4979.1
34°	12832.4	12577.2	12002.7	11410.9	10719.3	9832.0	8918.1	7769.2	6790.4	5662.4	4729.4
35°	12321.1	12069.5	11539.9	10951.7	10289.4	9423.1	8504.6	7373.1	6415.3	5329.5	4452.2
36°	11718.2	11456.6	10967.2	10407.4	9804.5	8929.1	8015.2	6917.5	5989.0	4967.2	4155.8
37°	11055.0	10791.6	10354.3	9835.6	9239.2	8372.9	7467.3	6415.3	5538.9	4591.2	3845.7
38°	10355.2	10110.1	9713.1	9195.3	8605.3	7754.5	6868.1	5956.1	5080.6	4210.7	3531.9
39°	9637.1	9379.2	9005.0	8496.4	7916.4	7076.7	6243.3	5428.3	4685.5	3836.6	3243.8
40°	8834.9	8591.5	8157.9	7759.1	7177.3	6377.8	5617.6	4845.5	4246.4	3477.1	2982.2
42.5°	6535.1	6344.9	6113.4	5704.5	5274.6	4701.0	4169.5	3634.4	3199.0	2762.6	2399.4
45°	4147.6	4007.6	3888.7	3634.4	3460.6	3137.7	2863.2	2589.7	2383.9	2155.2	1751.8
47.5°	1535.0	1469.1	1427.0	1315.4	1305.4	1202.0	1191.9	1323.7	1401.4	1319.1	992.5
50°	578.1	561.7	551.6	516.8	493.1	445.5	409.8	383.3	329.3	291.8	261.6
51°	379.6	367.7	350.4	347.6	337.6	311.0	294.6	289.1	252.5	213.1	183.0
52°	241.5	234.2	223.2	224.1	218.6	202.2	196.7	204.9	185.7	163.7	141.8
53°	151.9	148.2	140.9	140.9	140.0	129.0	127.2	134.5	130.8	120.7	107.9
54°	98.8	97.9	91.5	92.4	92.4	86.0	85.1	87.8	86.9	83.2	76.8
55°	67.7	66.8	65.9	63.1	61.3	59.5	59.5	60.4	59.5	57.6	54.0
57.5°	23.8	22.9	23.8	22.9	22.9	23.8	22.9	24.7	25.6	25.6	23.8
60°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.2	9.1	9.1	9.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.8	1.8	1.8	1.8	1.8	1.8	0.9	0.9	1.8	1.8	1.8
64°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
66°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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°	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0
2.5°	210.4	211.3	207.7	206.7	205.8	201.2	198.5	195.8	193.0	188.4	190.3
5°	281.7	281.7	273.5	268.0	265.3	255.2	250.6	244.2	236.9	231.4	228.7
7.5°	393.4	386.9	368.7	354.9	346.7	326.6	314.7	297.3	287.2	276.3	269.9
10°	834.3	791.3	701.6	637.6	577.2	504.0	437.3	385.1	351.3	326.6	311.0
11°	1124.3	1067.5	953.2	864.5	785.8	681.5	579.1	481.2	410.7	367.7	335.7
12°	1442.6	1369.4	1232.2	1122.4	1026.4	895.6	764.7	635.8	534.2	453.7	387.9
13°	1773.7	1679.5	1520.4	1394.1	1283.4	1132.5	977.0	822.4	698.9	589.1	489.4
14°	2102.1	1986.9	1812.2	1666.7	1542.3	1374.0	1197.4	1025.5	880.9	742.8	621.1
15°	2400.4	2274.1	2120.4	1930.2	1795.7	1579.8	1413.3	1220.3	1055.6	895.6	753.8
17.5°	2935.5	2765.4	2584.2	2387.6	2259.5	2046.3	1835.0	1601.8	1402.3	1203.8	1013.6
20°	3523.7	3220.0	2921.8	2629.1	2443.4	2216.5	2009.8	1779.2	1568.8	1343.8	1137.1
21°	3755.1	3407.5	3044.4	2716.0	2505.6	2263.1	2049.1	1810.3	1589.0	1349.3	1131.6
22°	3974.7	3559.4	3151.4	2789.1	2559.5	2311.6	2081.1	1830.5	1594.4	1342.9	1115.1
23°	4175.0	3705.7	3250.2	2853.2	2598.9	2335.4	2097.6	1838.7	1591.7	1328.2	1090.4
24°	4357.1	3840.2	3334.3	2900.7	2622.7	2342.7	2095.7	1832.3	1578.0	1306.3	1056.6
25°	4514.4	3946.3	3395.6	2926.4	2629.1	2339.1	2086.6	1815.8	1550.5	1268.8	1017.2
26°	4633.3	4014.0	3424.9	2930.0	2619.9	2327.2	2065.6	1785.6	1507.5	1218.5	964.2
27°	4701.9	4038.7	3424.9	2914.5	2601.6	2305.2	2031.7	1739.0	1451.7	1156.3	898.3
28°	4713.8	4027.7	3400.2	2882.4	2566.9	2266.8	1982.3	1679.5	1385.9	1082.2	826.0
29°	4682.7	3983.8	3347.2	2827.6	2515.6	2217.4	1918.3	1604.5	1307.2	1000.8	751.0
30°	4605.9	3903.3	3268.5	2758.0	2454.3	2152.5	1837.8	1521.3	1218.5	916.6	665.0
31°	4486.0	3787.2	3167.9	2673.9	2378.4	2074.7	1749.0	1425.2	1118.8	812.3	571.7
32°	4326.9	3624.3	3056.3	2577.8	2294.2	1986.0	1638.4	1302.6	987.0	685.2	463.8
33°	4139.3	3465.2	2931.8	2474.5	2202.8	1864.3	1485.6	1119.7	826.0	543.4	351.3
34°	3925.3	3294.1	2798.3	2365.6	2082.9	1685.9	1295.3	931.2	649.5	397.0	247.9
35°	3688.4	3112.1	2658.3	2237.5	1893.6	1468.2	1077.6	725.4	470.2	268.9	186.6
36°	3435.9	2908.1	2498.2	2054.6	1666.7	1224.0	847.1	522.3	311.9	200.3	161.0
37°	3198.0	2730.6	2332.7	1825.0	1410.6	968.7	618.4	348.5	227.8	174.7	142.7
38°	2973.9	2559.5	2116.8	1570.7	1147.1	726.3	407.1	257.1	197.6	153.7	126.2
39°	2764.4	2387.6	1864.3	1298.1	883.7	512.3	295.5	220.5	172.0	136.3	111.6
40°	2562.3	2141.5	1589.0	1058.4	644.0	357.7	248.8	194.8	151.9	119.8	94.2
42.5°	1921.9	1375.8	880.0	482.1	302.8	233.3	177.5	137.2	100.6	74.1	56.7
45°	1206.6	699.8	377.8	270.8	211.3	158.3	115.3	82.3	60.4	44.8	35.7
47.5°	548.9	301.0	234.2	181.1	136.3	94.2	67.7	49.4	36.6	28.4	21.0
50°	201.2	171.1	139.0	103.4	75.0	54.0	39.3	29.3	22.0	16.5	11.9
51°	157.3	137.2	110.7	77.8	59.5	43.9	32.0	23.8	17.4	12.8	9.1
52°	123.5	108.9	85.1	60.4	46.7	34.8	25.6	18.3	12.8	10.1	7.3
53°	95.1	83.2	64.0	46.7	36.6	27.4	20.1	14.6	10.1	7.3	5.5
54°	70.4	61.3	47.6	35.7	28.4	21.0	14.6	11.0	7.3	5.5	4.6
55°	50.3	44.8	35.7	28.4	22.0	16.5	11.0	8.2	5.5	3.7	3.7
57.5°	21.0	20.1	16.5	13.7	11.0	8.2	5.5	3.7	3.7	2.7	3.7
60°	8.2	8.2	7.3	5.5	4.6	3.7	2.7	2.7	2.7	2.7	2.7



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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°	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7
64°	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	2.7	3.7
65°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	3.7
66°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	3.7
67.5°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	3.7	3.7
70°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	3.7	3.7
72.5°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.7	3.7	3.7
75°	0.9	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.7	3.7	3.7
77.5°	0.9	1.8	1.8	1.8	2.7	2.7	2.7	2.7	3.7	3.7	3.7
80°	0.9	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.7	3.7	3.7
82.5°	0.9	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.7	3.7	3.7
85°	0.9	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.7	3.7	3.7
87.5°	0.9	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.7	3.7	3.7
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: P208875

CATALOG NUMBER: LDSQA6A30940D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0
2.5°	187.5	187.5	181.1	179.3	178.4	176.6	172.0	172.0	169.2	165.6	163.7
5°	222.3	220.5	210.4	204.9	200.3	194.8	185.7	182.0	176.6	171.1	166.5
7.5°	256.1	249.7	234.2	225.9	219.5	210.4	198.5	190.3	181.1	172.0	165.6
10°	290.0	277.2	255.2	241.5	229.6	216.8	202.2	193.0	181.1	169.2	160.1
11°	303.7	287.2	262.5	245.2	231.4	216.8	202.2	190.3	179.3	167.4	157.3
12°	330.2	299.1	269.9	250.6	233.3	216.8	200.3	187.5	175.6	163.7	153.7
13°	384.2	326.6	278.1	255.2	236.0	216.8	198.5	184.8	172.0	160.1	149.1
14°	482.1	383.3	300.0	259.8	236.9	216.8	196.7	180.2	167.4	154.6	144.5
15°	592.8	470.2	344.9	276.3	237.8	215.0	193.0	175.6	161.9	149.1	139.0
17.5°	822.4	657.7	488.5	358.6	260.7	209.5	179.3	161.9	146.4	133.6	121.7
20°	915.7	724.5	534.2	384.2	269.9	200.3	163.7	145.4	129.0	116.2	106.1
21°	903.8	711.7	520.5	366.8	252.5	187.5	155.5	138.1	122.6	108.9	99.7
22°	879.1	681.5	488.5	334.8	231.4	174.7	148.2	129.9	115.3	102.5	93.3
23°	846.2	638.5	451.9	301.0	209.5	162.8	140.9	122.6	108.9	96.1	87.8
24°	805.0	595.5	409.8	267.1	188.4	153.7	132.6	115.3	101.5	90.6	82.3
25°	759.3	550.7	365.0	238.8	175.6	144.5	123.5	107.0	95.1	85.1	76.8
26°	703.5	497.6	322.9	212.2	160.1	134.5	114.3	99.7	88.7	79.6	71.4
27°	639.4	442.7	276.3	184.8	147.3	124.4	106.1	93.3	83.2	74.1	65.9
28°	581.8	381.5	236.9	164.7	137.2	114.3	98.8	86.9	77.8	68.6	61.3
29°	509.5	322.9	202.2	149.1	126.2	107.0	91.5	80.5	71.4	62.2	55.8
30°	437.3	267.1	172.9	136.3	115.3	97.9	84.2	74.1	64.9	57.6	52.1
31°	362.2	221.4	151.9	125.3	105.2	90.6	77.8	68.6	59.5	53.1	47.6
32°	277.2	181.1	135.4	113.4	96.1	81.4	71.4	62.2	54.0	48.5	43.0
33°	208.6	152.8	122.6	102.5	86.9	75.0	64.9	55.8	49.4	43.9	39.3
34°	166.5	136.3	110.7	92.4	78.7	67.7	57.6	50.3	43.9	39.3	34.8
35°	146.4	122.6	98.8	83.2	70.4	59.5	51.2	44.8	39.3	34.8	31.1
36°	129.9	109.8	87.8	74.1	61.3	52.1	44.8	39.3	33.8	30.2	27.4
37°	116.2	97.0	77.8	64.0	53.1	45.7	39.3	33.8	29.3	26.5	24.7
38°	104.3	83.2	65.9	54.9	45.7	39.3	33.8	29.3	25.6	22.9	21.0
39°	88.7	70.4	54.9	46.7	38.4	32.9	28.4	25.6	22.0	20.1	18.3
40°	74.1	58.5	45.7	38.4	32.9	27.4	24.7	21.0	19.2	17.4	15.6
42.5°	45.7	36.6	29.3	24.7	21.0	18.3	16.5	14.6	12.8	11.9	11.0
45°	28.4	22.9	18.3	15.6	12.8	11.9	11.0	9.1	9.1	8.2	8.2
47.5°	16.5	13.7	10.1	9.1	7.3	7.3	6.4	6.4	5.5	6.4	5.5
50°	9.1	6.4	5.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
51°	7.3	5.5	4.6	3.7	3.7	3.7	3.7	3.7	3.7	4.6	4.6
52°	5.5	4.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
53°	4.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
54°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
55°	3.7	3.7	3.7	3.7	3.7	2.7	3.7	3.7	3.7	3.7	3.7
57.5°	3.7	3.7	2.7	2.7	3.7	2.7	3.7	3.7	3.7	3.7	3.7
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7



TEST NUMBER: P208875

CATALOG NUMBER: LDSQA6A30940D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
64°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
66°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	4.6	4.6	4.6	4.6	3.7	3.7	3.7	3.7
72.5°	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.7
75°	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
77.5°	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
80°	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
85°	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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: P208875

CATALOG NUMBER: LDSQA6A30940D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0
2.5°	162.8	162.8	161.9	160.1	146.4	134.5	127.2	126.2
5°	163.7	161.9	158.3	155.5	130.8	115.3	106.1	105.2
7.5°	160.1	156.4	151.9	146.4	116.2	99.7	91.5	89.6
10°	153.7	147.3	141.8	134.5	102.5	86.9	79.6	77.8
11°	149.1	142.7	137.2	129.9	97.0	82.3	75.0	74.1
12°	145.4	138.1	130.8	124.4	91.5	77.8	71.4	70.4
13°	140.0	132.6	126.2	118.9	86.9	74.1	67.7	66.8
14°	135.4	127.2	120.7	114.3	82.3	69.5	64.9	64.0
15°	129.9	121.7	114.3	107.9	77.8	65.9	62.2	61.3
17.5°	115.3	106.1	99.7	93.3	66.8	57.6	54.9	55.8
20°	97.9	90.6	85.1	79.6	56.7	50.3	49.4	50.3
21°	91.5	85.1	80.5	75.0	53.1	47.6	47.6	48.5
22°	86.0	79.6	75.0	69.5	50.3	44.8	44.8	46.7
23°	80.5	74.1	69.5	64.9	46.7	43.0	43.0	44.8
24°	75.0	69.5	64.9	60.4	43.9	40.2	41.2	43.0
25°	69.5	64.9	60.4	56.7	41.2	38.4	39.3	41.2
26°	65.9	60.4	56.7	52.1	38.4	36.6	37.5	40.2
27°	60.4	55.8	52.1	48.5	36.6	34.8	36.6	38.4
28°	56.7	52.1	48.5	44.8	33.8	32.9	34.8	37.5
29°	52.1	48.5	44.8	42.1	32.0	31.1	33.8	35.7
30°	47.6	43.9	41.2	38.4	30.2	29.3	32.0	34.8
31°	43.9	41.2	38.4	35.7	28.4	28.4	31.1	33.8
32°	40.2	37.5	34.8	32.0	26.5	26.5	30.2	32.0
33°	36.6	33.8	31.1	29.3	24.7	25.6	28.4	31.1
34°	32.0	30.2	28.4	26.5	22.9	23.8	27.4	30.2
35°	29.3	27.4	25.6	23.8	22.0	22.9	26.5	29.3
36°	25.6	24.7	22.9	22.0	20.1	22.0	25.6	28.4
37°	22.9	22.0	20.1	19.2	19.2	21.0	24.7	27.4
38°	20.1	19.2	18.3	17.4	18.3	20.1	23.8	26.5
39°	17.4	16.5	16.5	15.6	17.4	19.2	22.9	25.6
40°	15.6	14.6	14.6	13.7	16.5	18.3	22.0	25.6
42.5°	11.0	11.0	11.0	11.0	13.7	16.5	20.1	23.8
45°	8.2	8.2	8.2	8.2	11.9	14.6	17.4	22.0
47.5°	6.4	6.4	6.4	6.4	11.0	13.7	16.5	19.2
50°	4.6	4.6	5.5	5.5	10.1	11.9	14.6	17.4
51°	4.6	4.6	4.6	5.5	9.1	11.9	13.7	16.5
52°	4.6	4.6	4.6	4.6	9.1	11.0	12.8	14.6
53°	3.7	4.6	4.6	4.6	8.2	11.0	11.9	13.7
54°	3.7	3.7	3.7	4.6	8.2	10.1	11.0	12.8
55°	3.7	3.7	3.7	4.6	7.3	10.1	11.0	11.0
57.5°	3.7	3.7	3.7	3.7	7.3	9.1	10.1	9.1
60°	3.7	3.7	3.7	3.7	6.4	8.2	9.1	6.4



TEST NUMBER: P208875

CATALOG NUMBER: LDSQA6A30940D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	3.7	3.7	3.7	3.7	6.4	7.3	7.3	5.5
64°	3.7	3.7	3.7	3.7	6.4	7.3	7.3	5.5
65°	3.7	3.7	3.7	3.7	6.4	6.4	6.4	4.6
66°	3.7	3.7	3.7	3.7	6.4	6.4	6.4	4.6
67.5°	3.7	3.7	3.7	3.7	6.4	6.4	5.5	4.6
70°	3.7	3.7	3.7	4.6	5.5	5.5	5.5	4.6
72.5°	3.7	3.7	3.7	4.6	5.5	5.5	4.6	3.7
75°	4.6	4.6	4.6	4.6	5.5	5.5	4.6	2.7
77.5°	4.6	4.6	4.6	4.6	5.5	4.6	3.7	2.7
80°	4.6	4.6	3.7	3.7	4.6	4.6	2.7	1.8
82.5°	4.6	4.6	3.7	3.7	4.6	3.7	2.7	1.8
85°	4.6	4.6	3.7	3.7	4.6	3.7	1.8	0.9
87.5°	4.6	3.7	3.7	3.7	4.6	3.7	0.9	0.9
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°	2.7	2.7	2.7	2.7	3.7	2.7	3.7	4.6	5.5	5.5	5.5
62°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.7





61°	5.5	5.5	4.6	4.6	3.7	2.7	2.7	2.7	2.7	2.7	2.7
62°	3.7	3.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7





61°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
62°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7





61°	3.7	3.7	3.7	3.7	6.4	8.2	8.2	6.4
62°	3.7	3.7	3.7	3.7	6.4	7.3	8.2	5.5



(END OF REPORT)