

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: P208874

Luminaire Tested: **LDSQA6A30935D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208874
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: LDSQA6A30935D010TE 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: 2211.4 lumens
Efficiency: N/A
Efficacy: 49.6 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

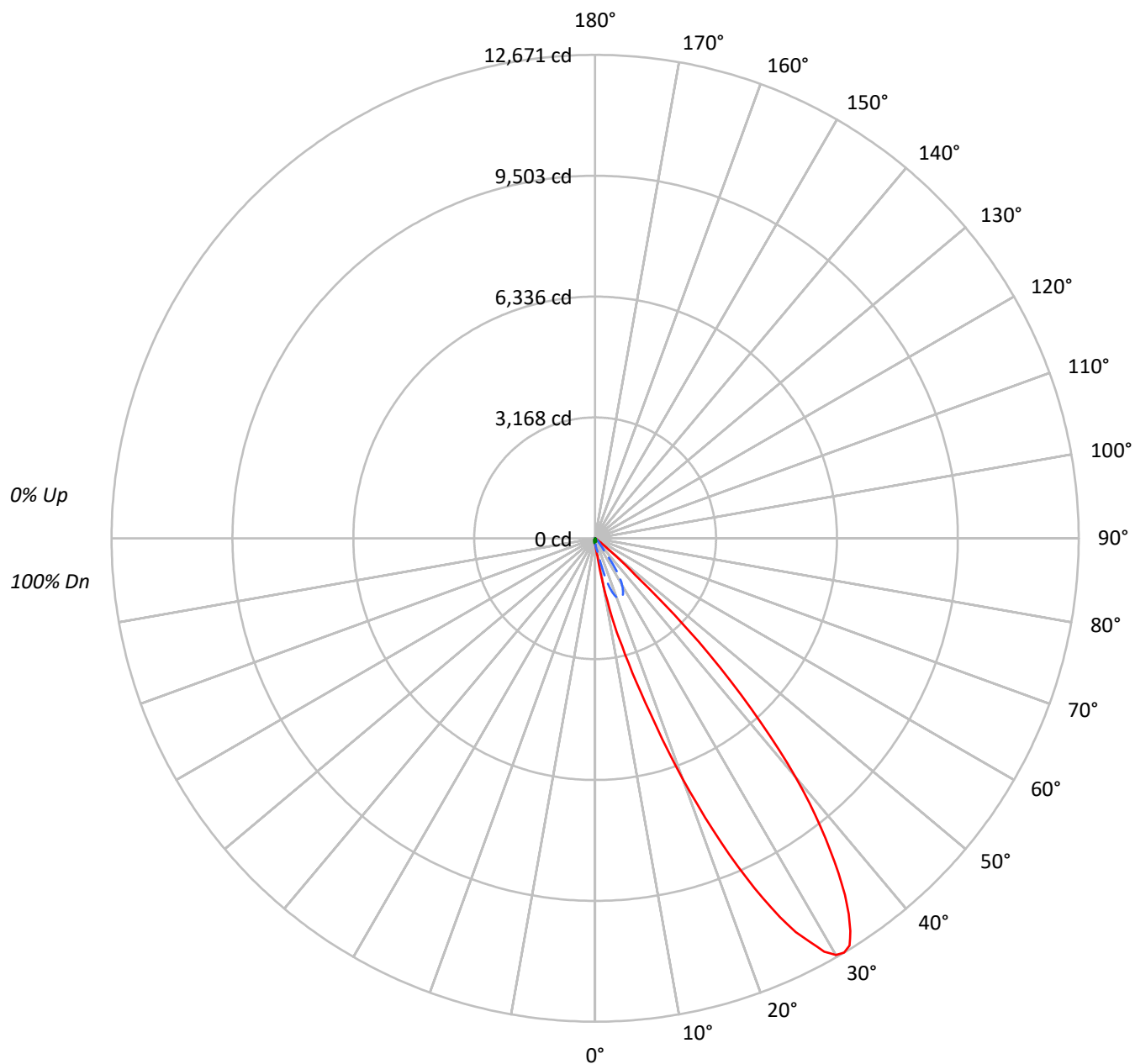
Input Watts (W): 44.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	6420	6420	6420
5°	12815	6224	4210
10°	57636	5443	3148
15°	151094	4457	2532
20°	307637	3377	2135
25°	495019	2494	1810
30°	627013	1770	1601
35°	599787	1156	1424
40°	459899	714	1332
45°	233896	463	1236
50°	35863	342	1078
55°	4707	315	766
60°	508	293	508
65°	82	346	428
70°	101	529	529
75°	0	699	416
80°	0	843	422
85°	0	1680	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.9
10°-20°	218.7	9.9
20°-30°	716.0	32.4
30°-40°	871.5	39.4
40°-50°	354.1	16.0
50°-60°	21.0	1.0
60°-70°	4.1	0.2
70°-80°	3.6	0.2
80°-90°	2.6	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°	954.5	43.2
0°-40°	1826.1	82.6
0°-60°	2201.1	99.5
0°-90°	2211.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	149	149	149	149	149	
5°	296	226	144	107	97	56
15°	3390	1130	100	61	57	1103
25°	10420	1682	52	36	38	4789
35°	11411	672	22	21	27	6902
45°	3841	76	8	14	20	2947
55°	63	8	4	9	10	108
65°	1	2	3	6	4	1
75°	0	2	4	5	2	0
85°	0	2	3	3	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°	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1
2.5°	210.1	200.8	205.0	204.2	200.8	201.6	203.3	199.9	201.6	196.6	197.4
5°	296.5	283.0	290.6	282.1	286.4	282.1	282.1	277.0	272.8	272.0	267.7
7.5°	517.7	484.6	494.8	458.3	464.3	452.4	441.4	429.5	409.2	399.0	377.0
10°	1318.3	1225.1	1247.1	1167.5	1165.8	1137.8	1086.1	1050.6	975.2	921.8	845.5
11°	1667.3	1603.8	1623.3	1536.0	1531.8	1493.7	1432.7	1337.8	1295.4	1224.2	1129.3
12°	2123.1	2016.4	2028.3	1932.5	1923.2	1872.4	1803.7	1686.8	1636.0	1549.6	1437.7
13°	2537.4	2442.5	2443.4	2339.2	2328.2	2263.8	2188.4	2046.9	1990.1	1893.5	1758.8
14°	2917.8	2845.8	2831.4	2775.5	2716.2	2640.8	2561.2	2401.0	2338.3	2229.9	2075.7
15°	3389.7	3249.1	3221.1	3150.8	3078.8	2983.9	2886.5	2703.5	2634.0	2514.6	2361.2
17.5°	4781.7	4608.0	4531.8	4388.6	4253.1	4070.9	3859.9	3535.5	3375.3	3161.0	2921.2
20°	6714.2	6440.6	6287.2	6057.6	5839.1	5540.8	5176.5	4665.7	4428.4	4013.3	3620.2
21°	7479.3	7243.8	7051.4	6793.0	6534.6	6181.3	5748.4	5207.9	4841.9	4356.4	3895.5
22°	8252.0	8028.3	7803.8	7520.0	7231.1	6818.5	6319.4	5692.5	5252.8	4686.0	4154.8
23°	9012.8	8785.7	8612.9	8224.0	7895.3	7430.1	6876.9	6160.2	5649.3	4999.5	4398.8
24°	9743.1	9494.8	9279.6	8887.4	8515.4	7997.8	7402.2	6614.3	6032.2	5298.5	4625.0
25°	10420.0	10146.3	9882.0	9478.7	9074.6	8509.5	7865.6	7025.2	6381.3	5569.6	4830.9
26°	11042.7	10669.1	10381.9	10009.1	9549.9	8956.8	8273.1	7380.2	6682.0	5795.9	4992.7
27°	11582.4	11204.5	10875.0	10475.9	9963.3	9324.5	8609.5	7635.2	6920.1	5965.3	5105.4
28°	11974.7	11655.3	11275.7	10846.2	10282.7	9577.9	8837.4	7838.5	7063.3	6053.4	5152.0
29°	12390.6	12027.2	11584.9	11096.9	10483.5	9737.1	8962.8	7944.4	7122.6	6073.7	5142.6
30°	12611.8	12277.1	11756.9	11224.9	10570.0	9788.0	8989.9	7960.5	7104.0	6024.6	5081.6
31°	12671.1	12358.4	11782.3	11227.4	10542.8	9738.0	8923.0	7877.5	7003.1	5910.2	4968.1
32°	12585.5	12272.9	11674.7	11119.0	10418.3	9598.2	8775.5	7729.2	6838.8	5739.1	4806.3
33°	12278.0	12024.6	11447.7	10913.1	10228.5	9390.6	8558.6	7487.8	6582.9	5517.1	4611.4
34°	11884.8	11648.5	11116.4	10568.3	9927.8	9106.0	8259.6	7195.5	6288.9	5244.3	4380.1
35°	11411.2	11178.3	10687.7	10143.0	9529.6	8727.2	7876.6	6828.6	5941.6	4935.9	4123.4
36°	10852.9	10610.6	10157.4	9638.9	9080.5	8269.7	7423.4	6406.7	5546.8	4600.4	3848.9
37°	10238.7	9994.7	9589.7	9109.3	8557.0	7754.6	6915.9	5941.6	5129.9	4252.2	3561.7
38°	9590.6	9363.5	8995.8	8516.3	7969.8	7181.9	6361.0	5516.3	4705.5	3899.8	3271.1
39°	8925.5	8686.6	8340.1	7869.0	7331.9	6554.1	5782.3	5027.4	4339.5	3553.3	3004.3
40°	8182.5	7957.1	7555.5	7186.1	6647.3	5906.8	5202.8	4487.7	3932.8	3220.3	2761.9
42.5°	6052.6	5876.3	5662.0	5283.3	4885.1	4353.9	3861.6	3366.0	2962.7	2558.6	2222.3
45°	3841.3	3711.7	3601.5	3366.0	3205.0	2906.0	2651.8	2398.5	2207.9	1996.1	1622.4
47.5°	1421.6	1360.6	1321.7	1218.3	1209.0	1113.3	1103.9	1225.9	1297.9	1221.7	919.2
50°	535.4	520.2	510.9	478.7	456.7	412.6	379.6	355.0	305.0	270.3	242.3
51°	351.6	340.6	324.5	321.9	312.6	288.1	272.8	267.7	233.8	197.4	169.4
52°	223.7	216.9	206.7	207.6	202.5	187.2	182.2	189.8	172.0	151.7	131.3
53°	140.6	137.3	130.5	130.5	129.6	119.5	117.8	124.5	121.2	111.8	100.0
54°	91.5	90.7	84.7	85.6	85.6	79.6	78.8	81.3	80.5	77.1	71.2
55°	62.7	61.8	61.0	58.5	56.8	55.1	55.1	55.9	55.1	53.4	50.0
57.5°	22.0	21.2	22.0	21.2	21.2	22.0	21.2	22.9	23.7	23.7	22.0
60°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.6	8.5	8.5	8.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.7	1.7	1.7	1.7	1.7	1.7	0.8	0.8	1.7	1.7	1.7
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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°	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1
2.5°	194.9	195.7	192.3	191.5	190.6	186.4	183.8	181.3	178.8	174.5	176.2
5°	260.9	260.9	253.3	248.2	245.7	236.4	232.1	226.2	219.4	214.3	211.8
7.5°	364.3	358.4	341.4	328.7	321.1	302.5	291.4	275.3	266.0	255.9	249.9
10°	772.7	732.8	649.8	590.5	534.6	466.8	405.0	356.7	325.3	302.5	288.1
11°	1041.2	988.7	882.8	800.6	727.8	631.2	536.3	445.6	380.4	340.6	310.9
12°	1336.1	1268.3	1141.2	1039.5	950.6	829.4	708.3	588.8	494.8	420.2	359.2
13°	1642.8	1555.5	1408.1	1291.2	1188.7	1048.9	904.8	761.7	647.3	545.6	453.3
14°	1946.9	1840.2	1678.3	1543.6	1428.4	1272.5	1109.0	949.7	815.9	687.9	575.3
15°	2223.1	2106.2	1963.9	1787.6	1663.1	1463.2	1309.0	1130.2	977.7	829.4	698.1
17.5°	2718.7	2561.2	2393.4	2211.3	2092.6	1895.2	1699.5	1483.5	1298.8	1114.9	938.7
20°	3263.5	2982.2	2706.0	2434.9	2262.9	2052.8	1861.3	1647.8	1453.0	1244.6	1053.1
21°	3477.9	3155.9	2819.6	2515.4	2320.5	2096.0	1897.8	1676.7	1471.6	1249.7	1048.0
22°	3681.2	3296.5	2918.7	2583.2	2370.5	2140.9	1927.4	1695.3	1476.7	1243.7	1032.8
23°	3866.7	3432.1	3010.2	2642.5	2407.0	2163.0	1942.7	1702.9	1474.2	1230.2	1009.9
24°	4035.3	3556.6	3088.1	2686.5	2429.0	2169.7	1941.0	1697.0	1461.5	1209.8	978.5
25°	4181.0	3654.9	3144.9	2710.3	2434.9	2166.3	1932.5	1681.7	1436.0	1175.1	942.1
26°	4291.2	3717.6	3172.0	2713.7	2426.4	2155.3	1913.0	1653.8	1396.2	1128.5	893.0
27°	4354.7	3740.5	3172.0	2699.3	2409.5	2135.0	1881.7	1610.6	1344.5	1070.9	832.0
28°	4365.7	3730.3	3149.1	2669.6	2377.3	2099.4	1835.9	1555.5	1283.5	1002.3	765.0
29°	4336.9	3689.7	3100.0	2618.8	2329.9	2053.7	1776.6	1486.0	1210.7	926.9	695.6
30°	4265.8	3615.1	3027.1	2554.4	2273.1	1993.5	1702.1	1408.9	1128.5	848.9	615.9
31°	4154.8	3507.5	2933.9	2476.4	2202.8	1921.5	1619.9	1320.0	1036.2	752.3	529.5
32°	4007.4	3356.7	2830.6	2387.5	2124.8	1839.3	1517.4	1206.4	914.2	634.6	429.5
33°	3833.7	3209.3	2715.4	2291.7	2040.1	1726.6	1375.9	1037.0	765.0	503.3	325.3
34°	3635.4	3050.9	2591.7	2190.9	1929.1	1561.4	1199.7	862.5	601.5	367.7	229.6
35°	3416.0	2882.3	2462.0	2072.3	1753.8	1359.8	998.0	671.8	435.5	249.1	172.8
36°	3182.2	2693.3	2313.8	1902.9	1543.6	1133.6	784.5	483.8	288.9	185.5	149.1
37°	2961.9	2529.0	2160.4	1690.2	1306.4	897.2	572.7	322.8	211.0	161.8	132.2
38°	2754.3	2370.5	1960.5	1454.7	1062.4	672.7	377.0	238.1	183.0	142.3	116.9
39°	2560.3	2211.3	1726.6	1202.2	818.4	474.4	273.7	204.2	159.3	126.2	103.4
40°	2373.1	1983.3	1471.6	980.2	596.4	331.3	230.4	180.5	140.6	111.0	87.3
42.5°	1780.0	1274.2	815.0	446.5	280.4	216.0	164.4	127.1	93.2	68.6	52.5
45°	1117.5	648.1	349.9	250.8	195.7	146.6	106.8	76.3	55.9	41.5	33.0
47.5°	508.3	278.7	216.9	167.8	126.2	87.3	62.7	45.8	33.9	26.3	19.5
50°	186.4	158.4	128.8	95.7	69.5	50.0	36.4	27.1	20.3	15.3	11.0
51°	145.7	127.1	102.5	72.0	55.1	40.7	29.7	22.0	16.1	11.9	8.5
52°	114.4	100.8	78.8	55.9	43.2	32.2	23.7	16.9	11.9	9.3	6.8
53°	88.1	77.1	59.3	43.2	33.9	25.4	18.6	13.6	9.3	6.8	5.1
54°	65.2	56.8	44.1	33.0	26.3	19.5	13.6	10.2	6.8	5.1	4.2
55°	46.6	41.5	33.0	26.3	20.3	15.3	10.2	7.6	5.1	3.4	3.4
57.5°	19.5	18.6	15.3	12.7	10.2	7.6	5.1	3.4	3.4	2.5	3.4
60°	7.6	7.6	6.8	5.1	4.2	3.4	2.5	2.5	2.5	2.5	2.5



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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°	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4
64°	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5	3.4
65°	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	2.5	3.4
66°	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	2.5	3.4
67.5°	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	3.4	3.4
70°	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	3.4	3.4
72.5°	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4	3.4	3.4
75°	0.8	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4	3.4	3.4
77.5°	0.8	1.7	1.7	1.7	2.5	2.5	2.5	2.5	3.4	3.4	3.4
80°	0.8	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4	3.4	3.4
82.5°	0.8	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4	3.4	3.4
85°	0.8	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4	3.4	3.4
87.5°	0.8	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4	3.4	3.4
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: P208874

CATALOG NUMBER: LDSQA6A30935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1
2.5°	173.7	173.7	167.8	166.1	165.2	163.5	159.3	159.3	156.7	153.3	151.7
5°	205.9	204.2	194.9	189.8	185.5	180.5	172.0	168.6	163.5	158.4	154.2
7.5°	237.2	231.3	216.9	209.3	203.3	194.9	183.8	176.2	167.8	159.3	153.3
10°	268.6	256.7	236.4	223.7	212.7	200.8	187.2	178.8	167.8	156.7	148.3
11°	281.3	266.0	243.2	227.1	214.3	200.8	187.2	176.2	166.1	155.0	145.7
12°	305.8	277.0	249.9	232.1	216.0	200.8	185.5	173.7	162.7	151.7	142.3
13°	355.8	302.5	257.6	236.4	218.6	200.8	183.8	171.1	159.3	148.3	138.1
14°	446.5	355.0	277.9	240.6	219.4	200.8	182.2	166.9	155.0	143.2	133.9
15°	549.0	435.5	319.4	255.9	220.3	199.1	178.8	162.7	150.0	138.1	128.8
17.5°	761.7	609.2	452.4	332.1	241.5	194.0	166.1	150.0	135.6	123.7	112.7
20°	848.1	671.0	494.8	355.8	249.9	185.5	151.7	134.7	119.5	107.6	98.3
21°	837.1	659.1	482.1	339.7	233.8	173.7	144.0	127.9	113.5	100.8	92.3
22°	814.2	631.2	452.4	310.1	214.3	161.8	137.3	120.3	106.8	94.9	86.4
23°	783.7	591.4	418.5	278.7	194.0	150.8	130.5	113.5	100.8	89.0	81.3
24°	745.6	551.5	379.6	247.4	174.5	142.3	122.8	106.8	94.0	83.9	76.3
25°	703.2	510.0	338.0	221.1	162.7	133.9	114.4	99.1	88.1	78.8	71.2
26°	651.5	460.9	299.1	196.6	148.3	124.5	105.9	92.3	82.2	73.7	66.1
27°	592.2	410.1	255.9	171.1	136.4	115.2	98.3	86.4	77.1	68.6	61.0
28°	538.8	353.3	219.4	152.5	127.1	105.9	91.5	80.5	72.0	63.5	56.8
29°	471.9	299.1	187.2	138.1	116.9	99.1	84.7	74.6	66.1	57.6	51.7
30°	405.0	247.4	160.1	126.2	106.8	90.7	77.9	68.6	60.2	53.4	48.3
31°	335.5	205.0	140.6	116.1	97.4	83.9	72.0	63.5	55.1	49.1	44.1
32°	256.7	167.8	125.4	105.1	89.0	75.4	66.1	57.6	50.0	44.9	39.8
33°	193.2	141.5	113.5	94.9	80.5	69.5	60.2	51.7	45.8	40.7	36.4
34°	154.2	126.2	102.5	85.6	72.9	62.7	53.4	46.6	40.7	36.4	32.2
35°	135.6	113.5	91.5	77.1	65.2	55.1	47.4	41.5	36.4	32.2	28.8
36°	120.3	101.7	81.3	68.6	56.8	48.3	41.5	36.4	31.3	28.0	25.4
37°	107.6	89.8	72.0	59.3	49.1	42.4	36.4	31.3	27.1	24.6	22.9
38°	96.6	77.1	61.0	50.8	42.4	36.4	31.3	27.1	23.7	21.2	19.5
39°	82.2	65.2	50.8	43.2	35.6	30.5	26.3	23.7	20.3	18.6	16.9
40°	68.6	54.2	42.4	35.6	30.5	25.4	22.9	19.5	17.8	16.1	14.4
42.5°	42.4	33.9	27.1	22.9	19.5	16.9	15.3	13.6	11.9	11.0	10.2
45°	26.3	21.2	16.9	14.4	11.9	11.0	10.2	8.5	8.5	7.6	7.6
47.5°	15.3	12.7	9.3	8.5	6.8	6.8	5.9	5.9	5.1	5.9	5.1
50°	8.5	5.9	5.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
51°	6.8	5.1	4.2	3.4	3.4	3.4	3.4	3.4	3.4	4.2	4.2
52°	5.1	4.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
53°	4.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
54°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
55°	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	3.4	3.4	3.4
57.5°	3.4	3.4	2.5	2.5	3.4	2.5	3.4	3.4	3.4	3.4	3.4
60°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4



TEST NUMBER: P208874

CATALOG NUMBER: LDSQA6A30935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
64°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
66°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.4	4.2	4.2	4.2	4.2	3.4	3.4	3.4	3.4
72.5°	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.4
75°	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P208874

CATALOG NUMBER: LDSQA6A30935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	149.1	149.1	149.1	149.1	149.1	149.1	149.1	149.1
2.5°	150.8	150.8	150.0	148.3	135.6	124.5	117.8	116.9
5°	151.7	150.0	146.6	144.0	121.2	106.8	98.3	97.4
7.5°	148.3	144.9	140.6	135.6	107.6	92.3	84.7	83.0
10°	142.3	136.4	131.3	124.5	94.9	80.5	73.7	72.0
11°	138.1	132.2	127.1	120.3	89.8	76.3	69.5	68.6
12°	134.7	127.9	121.2	115.2	84.7	72.0	66.1	65.2
13°	129.6	122.8	116.9	110.1	80.5	68.6	62.7	61.8
14°	125.4	117.8	111.8	105.9	76.3	64.4	60.2	59.3
15°	120.3	112.7	105.9	100.0	72.0	61.0	57.6	56.8
17.5°	106.8	98.3	92.3	86.4	61.8	53.4	50.8	51.7
20°	90.7	83.9	78.8	73.7	52.5	46.6	45.8	46.6
21°	84.7	78.8	74.6	69.5	49.1	44.1	44.1	44.9
22°	79.6	73.7	69.5	64.4	46.6	41.5	41.5	43.2
23°	74.6	68.6	64.4	60.2	43.2	39.8	39.8	41.5
24°	69.5	64.4	60.2	55.9	40.7	37.3	38.1	39.8
25°	64.4	60.2	55.9	52.5	38.1	35.6	36.4	38.1
26°	61.0	55.9	52.5	48.3	35.6	33.9	34.7	37.3
27°	55.9	51.7	48.3	44.9	33.9	32.2	33.9	35.6
28°	52.5	48.3	44.9	41.5	31.3	30.5	32.2	34.7
29°	48.3	44.9	41.5	39.0	29.7	28.8	31.3	33.0
30°	44.1	40.7	38.1	35.6	28.0	27.1	29.7	32.2
31°	40.7	38.1	35.6	33.0	26.3	26.3	28.8	31.3
32°	37.3	34.7	32.2	29.7	24.6	24.6	28.0	29.7
33°	33.9	31.3	28.8	27.1	22.9	23.7	26.3	28.8
34°	29.7	28.0	26.3	24.6	21.2	22.0	25.4	28.0
35°	27.1	25.4	23.7	22.0	20.3	21.2	24.6	27.1
36°	23.7	22.9	21.2	20.3	18.6	20.3	23.7	26.3
37°	21.2	20.3	18.6	17.8	17.8	19.5	22.9	25.4
38°	18.6	17.8	16.9	16.1	16.9	18.6	22.0	24.6
39°	16.1	15.3	15.3	14.4	16.1	17.8	21.2	23.7
40°	14.4	13.6	13.6	12.7	15.3	16.9	20.3	23.7
42.5°	10.2	10.2	10.2	10.2	12.7	15.3	18.6	22.0
45°	7.6	7.6	7.6	7.6	11.0	13.6	16.1	20.3
47.5°	5.9	5.9	5.9	5.9	10.2	12.7	15.3	17.8
50°	4.2	4.2	5.1	5.1	9.3	11.0	13.6	16.1
51°	4.2	4.2	4.2	5.1	8.5	11.0	12.7	15.3
52°	4.2	4.2	4.2	4.2	8.5	10.2	11.9	13.6
53°	3.4	4.2	4.2	4.2	7.6	10.2	11.0	12.7
54°	3.4	3.4	3.4	4.2	7.6	9.3	10.2	11.9
55°	3.4	3.4	3.4	4.2	6.8	9.3	10.2	10.2
57.5°	3.4	3.4	3.4	3.4	6.8	8.5	9.3	8.5
60°	3.4	3.4	3.4	3.4	5.9	7.6	8.5	5.9



TEST NUMBER: P208874

CATALOG NUMBER: LDSQA6A30935D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	3.4	3.4	3.4	3.4	5.9	6.8	6.8	5.1
64°	3.4	3.4	3.4	3.4	5.9	6.8	6.8	5.1
65°	3.4	3.4	3.4	3.4	5.9	5.9	5.9	4.2
66°	3.4	3.4	3.4	3.4	5.9	5.9	5.9	4.2
67.5°	3.4	3.4	3.4	3.4	5.9	5.9	5.1	4.2
70°	3.4	3.4	3.4	4.2	5.1	5.1	5.1	4.2
72.5°	3.4	3.4	3.4	4.2	5.1	5.1	4.2	3.4
75°	4.2	4.2	4.2	4.2	5.1	5.1	4.2	2.5
77.5°	4.2	4.2	4.2	4.2	5.1	4.2	3.4	2.5
80°	4.2	4.2	3.4	3.4	4.2	4.2	2.5	1.7
82.5°	4.2	4.2	3.4	3.4	4.2	3.4	2.5	1.7
85°	4.2	4.2	3.4	3.4	4.2	3.4	1.7	0.8
87.5°	4.2	3.4	3.4	3.4	4.2	3.4	0.8	0.8
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°	2.5	2.5	2.5	2.5	3.4	2.5	3.4	4.2	5.1	5.1	5.1
62°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4





61°	5.1	5.1	4.2	4.2	3.4	2.5	2.5	2.5	2.5	2.5	2.5
62°	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4





61°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
62°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4





61°	3.4	3.4	3.4	3.4	5.9	7.6	7.6	5.9
62°	3.4	3.4	3.4	3.4	5.9	6.8	7.6	5.1



(END OF REPORT)