

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: P212807

Luminaire Tested: **LD6B20D010 EU6B10209727 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20D010 EU6B10209727 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1390.9 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

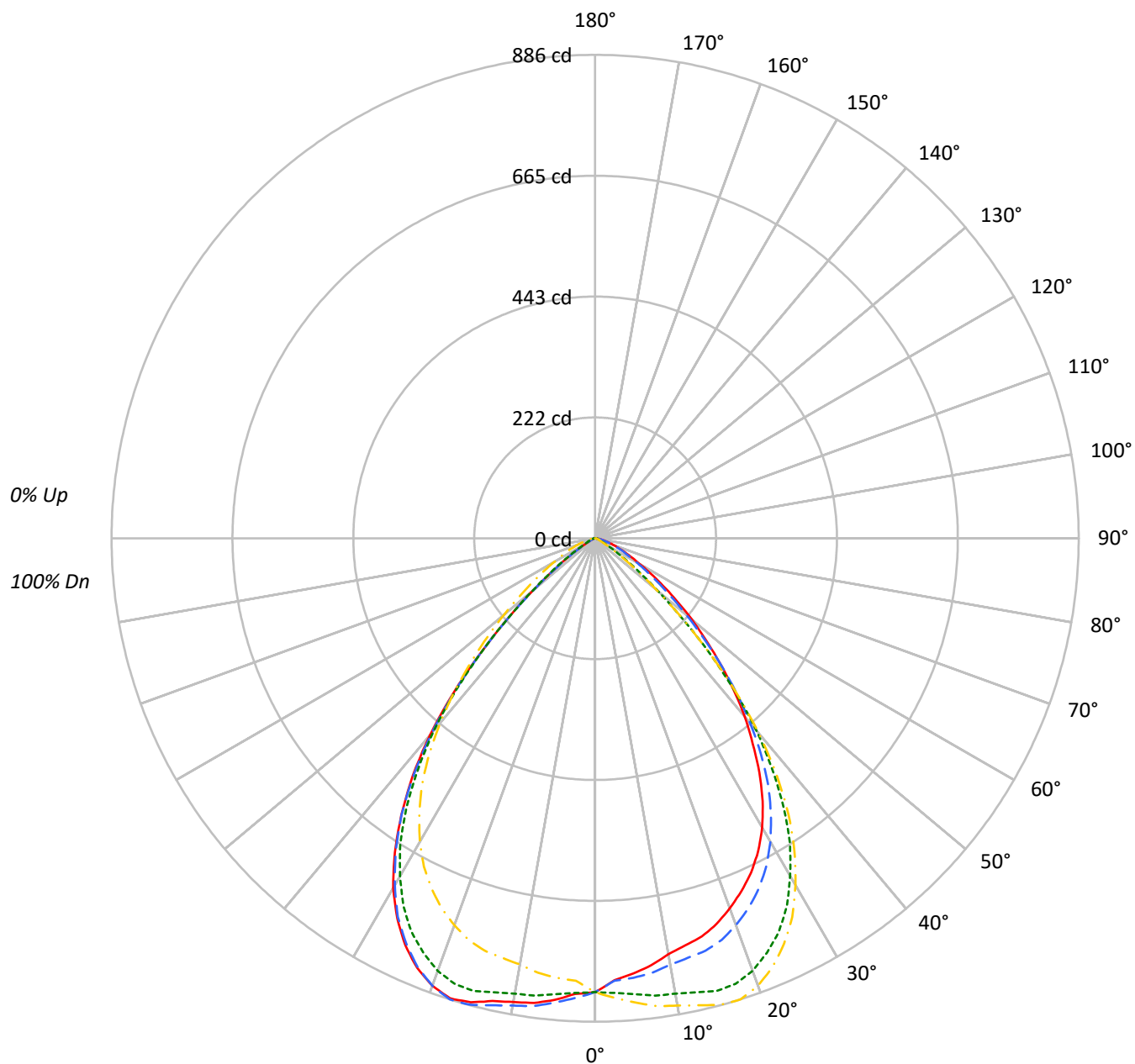
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	100	98		99	97	96		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	91	84	80	96	89	84	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	75	70	79	74	70		77	73	69		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	55	48	44	66	55	48	44	54	48	43		53	47	43		52
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	45605	45605	45605	45605
5°	44073	46153	46742	46153
10°	43074	47171	48034	47171
15°	42872	48752	49961	48752
20°	42091	49208	50906	49208
25°	40889	48154	49793	48154
30°	38746	45241	46836	45241
35°	35128	40314	41419	40314
40°	30493	32854	33685	32854
45°	25003	22677	22824	22677
50°	19658	12716	12469	12716
55°	14537	6298	5649	6298
60°	10295	2763	2017	2763
65°	7666	1764	1258	1764
70°	5594	1394	930	1394
75°	4109	1017	614	1017
80°	2747	916	316	916
85°	1824	629	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	5.7
10°-20°	235.9	17.0
20°-30°	352.0	25.3
30°-40°	361.7	26.0
40°-50°	234.2	16.8
50°-60°	87.1	6.3
60°-70°	28.6	2.1
70°-80°	10.1	0.7
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°	667.5	48.0
0°-40°	1029.2	74.0
0°-60°	1350.4	97.1
0°-90°	1390.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1390.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	832	832	832	832	832	
5°	801	839	849	839	801	76
15°	755	859	880	859	755	212
25°	676	796	823	796	676	310
35°	525	602	619	602	525	326
45°	322	292	294	292	322	249
55°	152	66	59	66	152	139
65°	59	14	10	14	59	60
75°	19	5	3	5	19	21
85°	3	1	1	1	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9
2.5°	810.6	822.2	814.5	819.3	811.6	811.6	827.1	818.4	825.1	818.4	811.6
5°	800.9	815.5	805.8	810.6	803.8	804.8	819.3	812.5	819.3	814.5	808.7
7.5°	789.3	803.8	795.1	800.0	793.2	795.1	810.6	803.8	811.6	806.7	802.9
10°	773.8	789.3	781.6	786.4	780.6	781.6	797.1	792.2	799.0	796.1	793.2
12.5°	764.1	778.7	769.9	774.8	770.9	772.8	787.4	783.5	792.2	789.3	787.4
15°	755.4	769.0	761.2	766.1	763.2	764.1	779.6	775.7	785.4	783.5	782.5
17.5°	740.9	755.4	746.7	752.5	749.6	750.6	766.1	763.2	772.8	772.8	771.9
20°	721.5	736.0	729.3	733.1	731.2	733.1	746.7	744.8	754.4	754.4	754.4
22.5°	700.2	714.7	707.0	710.9	708.9	711.8	724.4	724.4	732.2	733.1	734.1
25°	676.0	690.5	682.8	687.6	685.7	687.6	699.2	700.2	707.0	707.0	708.9
27.5°	646.9	661.5	653.7	657.6	656.6	657.6	670.2	672.1	676.0	677.0	678.9
30°	612.1	625.6	617.9	621.8	621.8	621.8	634.3	635.3	639.2	640.2	642.1
32.5°	571.4	583.0	577.2	581.1	580.1	582.1	590.8	594.6	599.5	598.5	599.5
35°	524.9	537.5	531.7	534.6	535.6	538.5	544.3	549.1	550.1	551.1	553.0
37.5°	474.6	487.1	481.3	484.2	485.2	491.0	493.0	497.8	499.7	499.7	499.7
40°	426.1	431.9	427.1	430.0	431.0	435.8	437.7	441.6	443.6	442.6	441.6
42.5°	373.8	378.7	373.8	376.7	376.7	380.6	381.6	386.4	386.4	384.5	381.6
45°	322.5	327.3	322.5	324.4	324.4	328.3	328.3	328.3	330.2	327.3	322.5
47.5°	274.1	278.9	274.1	276.0	275.0	278.0	277.0	278.0	275.0	273.1	267.3
50°	230.5	232.4	230.5	229.5	230.5	232.4	231.5	231.5	227.6	224.7	217.9
52.5°	187.9	190.8	187.9	187.9	187.9	189.8	189.8	188.9	185.0	181.1	174.3
55°	152.1	154.0	153.0	152.1	152.1	154.0	152.1	152.1	148.2	145.3	138.5
57.5°	121.1	122.0	121.1	121.1	121.1	122.0	122.0	120.1	117.2	114.3	109.4
60°	93.9	94.9	94.9	93.9	93.9	95.9	95.9	94.9	92.0	90.1	85.2
62.5°	74.6	74.6	74.6	74.6	74.6	75.5	75.5	75.5	73.6	71.7	67.8
65°	59.1	60.0	59.1	59.1	60.0	61.0	60.0	61.0	59.1	58.1	55.2
67.5°	45.5	46.5	45.5	46.5	46.5	47.5	46.5	47.5	45.5	44.5	42.6
70°	34.9	34.9	34.9	34.9	34.9	35.8	34.9	35.8	34.9	33.9	32.0
72.5°	26.1	26.1	27.1	27.1	26.1	27.1	26.1	26.1	26.1	25.2	24.2
75°	19.4	19.4	20.3	19.4	19.4	19.4	19.4	19.4	18.4	18.4	17.4
77.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	12.6	12.6	11.6
80°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	7.7	7.7
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.8	4.8
85°	2.9	2.9	2.9	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	1.0	1.0	1.0	1.9	1.0	1.0	1.9	1.9	1.0	1.0	1.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9
2.5°	819.3	822.2	822.2	819.3	826.1	820.3	831.9	821.3	824.2	833.9	832.9
5°	816.4	820.3	821.3	819.3	828.0	823.2	834.8	824.2	829.0	838.7	838.7
7.5°	812.5	817.4	819.3	821.3	829.0	824.2	837.7	827.1	833.9	845.5	844.5
10°	803.8	810.6	814.5	817.4	825.1	822.2	836.8	828.0	833.9	847.4	846.4
12.5°	799.0	806.7	812.5	817.4	826.1	824.2	838.7	830.9	838.7	852.3	852.3
15°	795.1	803.8	810.6	819.3	828.0	826.1	841.6	834.8	842.6	859.0	858.1
17.5°	785.4	796.1	802.9	812.5	821.3	820.3	836.8	831.9	840.6	856.1	857.1
20°	769.0	778.7	786.4	798.0	807.7	805.8	823.2	818.4	827.1	843.5	844.5
22.5°	747.7	757.3	765.1	777.7	786.4	785.4	802.9	798.0	806.7	822.2	823.2
25°	722.5	731.2	738.9	750.6	760.3	760.3	775.7	770.9	780.6	796.1	796.1
27.5°	691.5	699.2	706.0	719.6	727.3	727.3	741.9	737.0	746.7	760.3	759.3
30°	653.7	660.5	666.3	677.9	684.7	685.7	698.3	693.4	703.1	714.7	714.7
32.5°	608.2	615.0	618.9	633.4	638.2	637.3	646.9	642.1	651.8	664.4	661.5
35°	559.8	562.7	565.6	580.1	582.1	578.2	587.9	583.0	589.8	602.4	600.5
37.5°	504.6	505.5	505.5	518.1	519.1	516.2	522.0	516.2	521.0	532.7	531.7
40°	443.6	442.6	441.6	451.3	450.3	444.5	448.4	443.6	450.3	459.1	454.2
42.5°	381.6	378.7	374.8	379.6	375.8	370.9	372.9	365.1	370.0	376.7	370.9
45°	320.6	314.8	307.0	308.0	303.1	297.3	294.4	286.7	285.7	292.5	287.6
47.5°	263.4	251.8	245.0	241.1	233.4	228.6	222.7	214.0	210.2	214.0	209.2
50°	212.1	200.5	191.8	183.0	175.3	169.5	159.8	154.0	148.2	149.1	145.3
52.5°	167.5	159.8	145.3	138.5	130.7	124.0	115.2	108.5	101.7	101.7	97.8
55°	132.7	122.0	112.3	102.7	94.9	89.1	80.4	73.6	66.8	65.9	62.0
57.5°	102.7	94.9	84.3	74.6	69.7	63.9	55.2	47.5	43.6	40.7	37.8
60°	79.4	71.7	63.0	55.2	49.4	45.5	36.8	31.0	27.1	25.2	22.3
62.5°	63.9	57.1	49.4	41.6	37.8	33.9	27.1	22.3	18.4	16.5	14.5
65°	51.3	45.5	39.7	33.9	31.0	27.1	22.3	18.4	15.5	13.6	11.6
67.5°	39.7	35.8	31.0	27.1	24.2	21.3	17.4	14.5	12.6	10.7	9.7
70°	30.0	27.1	24.2	20.3	18.4	16.5	13.6	10.7	9.7	8.7	7.7
72.5°	23.2	20.3	17.4	15.5	13.6	12.6	10.7	8.7	7.7	6.8	5.8
75°	15.5	14.5	12.6	10.7	9.7	8.7	7.7	6.8	5.8	4.8	4.8
77.5°	10.7	9.7	8.7	7.7	6.8	6.8	5.8	4.8	3.9	3.9	2.9
80°	6.8	5.8	5.8	4.8	4.8	4.8	3.9	2.9	2.9	2.9	1.9
82.5°	4.8	3.9	3.9	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.0
85°	2.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9
2.5°	825.1	833.9	833.9	841.6	842.6	840.6	831.9	831.9	843.5	850.3	838.7
5°	832.9	841.6	841.6	849.4	853.2	850.3	841.6	842.6	854.2	861.9	850.3
7.5°	839.7	848.4	850.3	859.0	861.9	859.0	850.3	852.3	864.8	871.6	860.0
10°	842.6	851.3	852.3	861.9	865.8	861.9	855.2	856.1	869.7	874.5	863.9
12.5°	849.4	858.1	858.1	868.7	872.6	869.7	861.0	862.9	876.5	881.3	870.7
15°	856.1	864.8	864.8	876.5	881.3	877.4	870.7	871.6	885.2	890.0	881.3
17.5°	856.1	863.9	863.9	876.5	881.3	878.4	870.7	871.6	886.2	890.0	881.3
20°	843.5	852.3	850.3	862.9	867.8	864.8	858.1	858.1	872.6	876.5	867.8
22.5°	823.2	830.9	829.0	840.6	846.4	842.6	836.8	835.8	850.3	854.2	845.5
25°	795.1	802.9	800.9	812.5	818.4	813.5	806.7	807.7	819.3	825.1	817.4
27.5°	762.2	767.0	764.1	775.7	781.6	776.7	769.9	770.9	782.5	786.4	780.6
30°	717.6	721.5	718.6	728.3	732.2	729.3	723.4	723.4	734.1	738.9	733.1
32.5°	664.4	667.3	664.4	672.1	679.9	674.1	668.2	668.2	679.9	683.7	677.0
35°	602.4	605.3	603.4	611.1	616.9	609.2	604.3	602.4	617.9	615.9	612.1
37.5°	533.6	535.6	529.8	543.3	546.2	537.5	533.6	531.7	545.3	544.3	540.4
40°	456.2	458.1	454.2	463.9	464.9	458.1	455.2	452.3	465.8	464.9	462.0
42.5°	373.8	374.8	370.0	377.7	379.6	372.9	371.9	368.0	380.6	378.7	377.7
45°	288.6	288.6	284.7	290.5	292.5	286.7	284.7	283.8	292.5	292.5	290.5
47.5°	209.2	206.3	201.4	210.2	211.1	207.3	206.3	203.4	212.1	212.1	210.2
50°	143.3	142.4	141.4	143.3	144.3	139.5	142.4	139.5	144.3	144.3	144.3
52.5°	95.9	94.9	93.0	94.9	94.9	92.0	92.0	91.0	94.9	94.9	93.0
55°	60.0	59.1	58.1	59.1	59.1	56.2	58.1	56.2	58.1	58.1	57.1
57.5°	36.8	34.9	34.9	33.9	33.9	32.0	32.9	32.9	32.9	32.9	32.9
60°	21.3	20.3	19.4	19.4	19.4	18.4	18.4	18.4	18.4	18.4	18.4
62.5°	13.6	13.6	12.6	12.6	12.6	12.6	12.6	11.6	12.6	12.6	12.6
65°	11.6	10.7	10.7	10.7	10.7	9.7	9.7	9.7	9.7	9.7	9.7
67.5°	9.7	8.7	8.7	8.7	8.7	7.7	7.7	7.7	7.7	7.7	7.7
70°	7.7	6.8	6.8	6.8	6.8	6.8	5.8	6.8	6.8	5.8	5.8
72.5°	5.8	5.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	3.9	3.9	3.9	3.9	3.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9
2.5°	852.3	842.6	837.7	847.4	851.3	846.4	842.6	835.8	842.6	846.4	851.3
5°	863.9	855.2	851.3	858.1	863.9	859.0	856.1	849.4	856.1	859.0	863.9
7.5°	874.5	865.8	861.0	867.8	874.5	867.8	864.8	859.0	864.8	867.8	874.5
10°	878.4	868.7	864.8	870.7	877.4	870.7	866.8	862.9	866.8	870.7	877.4
12.5°	885.2	875.5	870.7	875.5	882.3	875.5	871.6	868.7	871.6	875.5	882.3
15°	894.9	886.2	880.3	885.2	893.9	886.2	881.3	880.3	881.3	886.2	893.9
17.5°	894.9	888.1	882.3	886.2	894.9	889.1	882.3	884.2	882.3	889.1	894.9
20°	882.3	875.5	870.7	870.7	883.2	875.5	869.7	872.6	869.7	875.5	883.2
22.5°	860.0	854.2	849.4	848.4	861.0	854.2	846.4	852.3	846.4	854.2	861.0
25°	830.9	825.1	821.3	819.3	831.9	824.2	817.4	823.2	817.4	824.2	831.9
27.5°	793.2	788.3	784.5	781.6	793.2	786.4	779.6	785.4	779.6	786.4	793.2
30°	744.8	741.9	738.0	734.1	745.7	738.9	732.2	739.9	732.2	738.9	745.7
32.5°	688.6	686.6	681.8	677.9	689.6	681.8	677.0	682.8	677.0	681.8	689.6
35°	623.7	620.8	617.9	611.1	623.7	616.9	616.9	618.9	616.9	616.9	623.7
37.5°	551.1	549.1	545.3	539.4	550.1	545.3	543.3	549.1	543.3	545.3	550.1
40°	469.7	468.7	465.8	459.1	470.7	465.8	462.9	470.7	462.9	465.8	470.7
42.5°	384.5	382.5	379.6	378.7	384.5	380.6	383.5	383.5	383.5	380.6	384.5
45°	296.4	294.4	292.5	288.6	295.4	293.4	292.5	294.4	292.5	293.4	295.4
47.5°	215.0	213.1	211.1	208.2	215.0	212.1	212.1	214.0	212.1	212.1	215.0
50°	144.3	145.3	144.3	142.4	144.3	143.3	144.3	146.2	144.3	143.3	144.3
52.5°	95.9	95.9	93.9	93.0	94.9	93.9	96.8	94.9	96.8	93.9	94.9
55°	58.1	59.1	58.1	57.1	58.1	57.1	60.0	59.1	60.0	57.1	58.1
57.5°	32.9	32.9	33.9	32.9	34.9	33.9	33.9	33.9	33.9	33.9	34.9
60°	18.4	18.4	18.4	18.4	18.4	18.4	19.4	18.4	19.4	18.4	18.4
62.5°	12.6	12.6	12.6	11.6	12.6	11.6	12.6	12.6	12.6	11.6	12.6
65°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
67.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CATALOG NUMBER: LD6B20D010 EU6B10209727 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9
2.5°	847.4	837.7	842.6	852.3	838.7	850.3	843.5	831.9	831.9	840.6	842.6
5°	858.1	851.3	855.2	863.9	850.3	861.9	854.2	842.6	841.6	850.3	853.2
7.5°	867.8	861.0	865.8	874.5	860.0	871.6	864.8	852.3	850.3	859.0	861.9
10°	870.7	864.8	868.7	878.4	863.9	874.5	869.7	856.1	855.2	861.9	865.8
12.5°	875.5	870.7	875.5	885.2	870.7	881.3	876.5	862.9	861.0	869.7	872.6
15°	885.2	880.3	886.2	894.9	881.3	890.0	885.2	871.6	870.7	877.4	881.3
17.5°	886.2	882.3	888.1	894.9	881.3	890.0	886.2	871.6	870.7	878.4	881.3
20°	870.7	870.7	875.5	882.3	867.8	876.5	872.6	858.1	858.1	864.8	867.8
22.5°	848.4	849.4	854.2	860.0	845.5	854.2	850.3	835.8	836.8	842.6	846.4
25°	819.3	821.3	825.1	830.9	817.4	825.1	819.3	807.7	806.7	813.5	818.4
27.5°	781.6	784.5	788.3	793.2	780.6	786.4	782.5	770.9	769.9	776.7	781.6
30°	734.1	738.0	741.9	744.8	733.1	738.9	734.1	723.4	723.4	729.3	732.2
32.5°	677.9	681.8	686.6	688.6	677.0	683.7	679.9	668.2	668.2	674.1	679.9
35°	611.1	617.9	620.8	623.7	612.1	615.9	617.9	602.4	604.3	609.2	616.9
37.5°	539.4	545.3	549.1	551.1	540.4	544.3	545.3	531.7	533.6	537.5	546.2
40°	459.1	465.8	468.7	469.7	462.0	464.9	465.8	452.3	455.2	458.1	464.9
42.5°	378.7	379.6	382.5	384.5	377.7	378.7	380.6	368.0	371.9	372.9	379.6
45°	288.6	292.5	294.4	296.4	290.5	292.5	292.5	283.8	284.7	286.7	292.5
47.5°	208.2	211.1	213.1	215.0	210.2	212.1	212.1	203.4	206.3	207.3	211.1
50°	142.4	144.3	145.3	144.3	144.3	144.3	144.3	139.5	142.4	139.5	144.3
52.5°	93.0	93.9	95.9	95.9	93.0	94.9	94.9	91.0	92.0	92.0	94.9
55°	57.1	58.1	59.1	58.1	57.1	58.1	58.1	56.2	58.1	56.2	59.1
57.5°	32.9	33.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.0	33.9
60°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	19.4
62.5°	11.6	12.6	12.6	12.6	12.6	12.6	12.6	11.6	12.6	12.6	12.6
65°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	10.7
67.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.7
70°	5.8	5.8	5.8	5.8	5.8	5.8	6.8	6.8	5.8	6.8	6.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9
2.5°	841.6	833.9	833.9	825.1	832.9	833.9	824.2	821.3	831.9	820.3	826.1
5°	849.4	841.6	841.6	832.9	838.7	838.7	829.0	824.2	834.8	823.2	828.0
7.5°	859.0	850.3	848.4	839.7	844.5	845.5	833.9	827.1	837.7	824.2	829.0
10°	861.9	852.3	851.3	842.6	846.4	847.4	833.9	828.0	836.8	822.2	825.1
12.5°	868.7	858.1	858.1	849.4	852.3	852.3	838.7	830.9	838.7	824.2	826.1
15°	876.5	864.8	864.8	856.1	858.1	859.0	842.6	834.8	841.6	826.1	828.0
17.5°	876.5	863.9	863.9	856.1	857.1	856.1	840.6	831.9	836.8	820.3	821.3
20°	862.9	850.3	852.3	843.5	844.5	843.5	827.1	818.4	823.2	805.8	807.7
22.5°	840.6	829.0	830.9	823.2	823.2	822.2	806.7	798.0	802.9	785.4	786.4
25°	812.5	800.9	802.9	795.1	796.1	796.1	780.6	770.9	775.7	760.3	760.3
27.5°	775.7	764.1	767.0	762.2	759.3	760.3	746.7	737.0	741.9	727.3	727.3
30°	728.3	718.6	721.5	717.6	714.7	714.7	703.1	693.4	698.3	685.7	684.7
32.5°	672.1	664.4	667.3	664.4	661.5	664.4	651.8	642.1	646.9	637.3	638.2
35°	611.1	603.4	605.3	602.4	600.5	602.4	589.8	583.0	587.9	578.2	582.1
37.5°	543.3	529.8	535.6	533.6	531.7	532.7	521.0	516.2	522.0	516.2	519.1
40°	463.9	454.2	458.1	456.2	454.2	459.1	450.3	443.6	448.4	444.5	450.3
42.5°	377.7	370.0	374.8	373.8	370.9	376.7	370.0	365.1	372.9	370.9	375.8
45°	290.5	284.7	288.6	288.6	287.6	292.5	285.7	286.7	294.4	297.3	303.1
47.5°	210.2	201.4	206.3	209.2	209.2	214.0	210.2	214.0	222.7	228.6	233.4
50°	143.3	141.4	142.4	143.3	145.3	149.1	148.2	154.0	159.8	169.5	175.3
52.5°	94.9	93.0	94.9	95.9	97.8	101.7	101.7	108.5	115.2	124.0	130.7
55°	59.1	58.1	59.1	60.0	62.0	65.9	66.8	73.6	80.4	89.1	94.9
57.5°	33.9	34.9	34.9	36.8	37.8	40.7	43.6	47.5	55.2	63.9	69.7
60°	19.4	19.4	20.3	21.3	22.3	25.2	27.1	31.0	36.8	45.5	49.4
62.5°	12.6	12.6	13.6	13.6	14.5	16.5	18.4	22.3	27.1	33.9	37.8
65°	10.7	10.7	10.7	11.6	11.6	13.6	15.5	18.4	22.3	27.1	31.0
67.5°	8.7	8.7	8.7	9.7	9.7	10.7	12.6	14.5	17.4	21.3	24.2
70°	6.8	6.8	6.8	7.7	7.7	8.7	9.7	10.7	13.6	16.5	18.4
72.5°	4.8	4.8	5.8	5.8	5.8	6.8	7.7	8.7	10.7	12.6	13.6
75°	3.9	3.9	3.9	3.9	4.8	4.8	5.8	6.8	7.7	8.7	9.7
77.5°	1.9	1.9	2.9	2.9	2.9	3.9	3.9	4.8	5.8	6.8	6.8
80°	1.9	1.9	1.9	1.9	1.9	2.9	2.9	2.9	3.9	4.8	4.8
82.5°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	2.9	2.9	2.9
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
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: P212807

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9	831.9
2.5°	819.3	822.2	822.2	819.3	811.6	818.4	825.1	818.4	827.1	811.6	811.6
5°	819.3	821.3	820.3	816.4	808.7	814.5	819.3	812.5	819.3	804.8	803.8
7.5°	821.3	819.3	817.4	812.5	802.9	806.7	811.6	803.8	810.6	795.1	793.2
10°	817.4	814.5	810.6	803.8	793.2	796.1	799.0	792.2	797.1	781.6	780.6
12.5°	817.4	812.5	806.7	799.0	787.4	789.3	792.2	783.5	787.4	772.8	770.9
15°	819.3	810.6	803.8	795.1	782.5	783.5	785.4	775.7	779.6	764.1	763.2
17.5°	812.5	802.9	796.1	785.4	771.9	772.8	772.8	763.2	766.1	750.6	749.6
20°	798.0	786.4	778.7	769.0	754.4	754.4	754.4	744.8	746.7	733.1	731.2
22.5°	777.7	765.1	757.3	747.7	734.1	733.1	732.2	724.4	724.4	711.8	708.9
25°	750.6	738.9	731.2	722.5	708.9	707.0	707.0	700.2	699.2	687.6	685.7
27.5°	719.6	706.0	699.2	691.5	678.9	677.0	676.0	672.1	670.2	657.6	656.6
30°	677.9	666.3	660.5	653.7	642.1	640.2	639.2	635.3	634.3	621.8	621.8
32.5°	633.4	618.9	615.0	608.2	599.5	598.5	599.5	594.6	590.8	582.1	580.1
35°	580.1	565.6	562.7	559.8	553.0	551.1	550.1	549.1	544.3	538.5	535.6
37.5°	518.1	505.5	505.5	504.6	499.7	499.7	499.7	497.8	493.0	491.0	485.2
40°	451.3	441.6	442.6	443.6	441.6	442.6	443.6	441.6	437.7	435.8	431.0
42.5°	379.6	374.8	378.7	381.6	381.6	384.5	386.4	386.4	381.6	380.6	376.7
45°	308.0	307.0	314.8	320.6	322.5	327.3	330.2	328.3	328.3	328.3	324.4
47.5°	241.1	245.0	251.8	263.4	267.3	273.1	275.0	278.0	277.0	278.0	275.0
50°	183.0	191.8	200.5	212.1	217.9	224.7	227.6	231.5	231.5	232.4	230.5
52.5°	138.5	145.3	159.8	167.5	174.3	181.1	185.0	188.9	189.8	189.8	187.9
55°	102.7	112.3	122.0	132.7	138.5	145.3	148.2	152.1	152.1	154.0	152.1
57.5°	74.6	84.3	94.9	102.7	109.4	114.3	117.2	120.1	122.0	122.0	121.1
60°	55.2	63.0	71.7	79.4	85.2	90.1	92.0	94.9	95.9	95.9	93.9
62.5°	41.6	49.4	57.1	63.9	67.8	71.7	73.6	75.5	75.5	75.5	74.6
65°	33.9	39.7	45.5	51.3	55.2	58.1	59.1	61.0	60.0	61.0	60.0
67.5°	27.1	31.0	35.8	39.7	42.6	44.5	45.5	47.5	46.5	47.5	46.5
70°	20.3	24.2	27.1	30.0	32.0	33.9	34.9	35.8	34.9	35.8	34.9
72.5°	15.5	17.4	20.3	23.2	24.2	25.2	26.1	26.1	26.1	27.1	26.1
75°	10.7	12.6	14.5	15.5	17.4	18.4	18.4	19.4	19.4	19.4	19.4
77.5°	7.7	8.7	9.7	10.7	11.6	12.6	12.6	13.6	13.6	13.6	13.6
80°	4.8	5.8	5.8	6.8	7.7	7.7	8.7	8.7	8.7	8.7	8.7
82.5°	2.9	3.9	3.9	4.8	4.8	4.8	5.8	5.8	5.8	5.8	5.8
85°	1.9	1.9	1.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.0	1.0
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: P212807

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	831.9	831.9	831.9	831.9
2.5°	819.3	814.5	822.2	810.6
5°	810.6	805.8	815.5	800.9
7.5°	800.0	795.1	803.8	789.3
10°	786.4	781.6	789.3	773.8
12.5°	774.8	769.9	778.7	764.1
15°	766.1	761.2	769.0	755.4
17.5°	752.5	746.7	755.4	740.9
20°	733.1	729.3	736.0	721.5
22.5°	710.9	707.0	714.7	700.2
25°	687.6	682.8	690.5	676.0
27.5°	657.6	653.7	661.5	646.9
30°	621.8	617.9	625.6	612.1
32.5°	581.1	577.2	583.0	571.4
35°	534.6	531.7	537.5	524.9
37.5°	484.2	481.3	487.1	474.6
40°	430.0	427.1	431.9	426.1
42.5°	376.7	373.8	378.7	373.8
45°	324.4	322.5	327.3	322.5
47.5°	276.0	274.1	278.9	274.1
50°	229.5	230.5	232.4	230.5
52.5°	187.9	187.9	190.8	187.9
55°	152.1	153.0	154.0	152.1
57.5°	121.1	121.1	122.0	121.1
60°	93.9	94.9	94.9	93.9
62.5°	74.6	74.6	74.6	74.6
65°	59.1	59.1	60.0	59.1
67.5°	46.5	45.5	46.5	45.5
70°	34.9	34.9	34.9	34.9
72.5°	27.1	27.1	26.1	26.1
75°	19.4	20.3	19.4	19.4
77.5°	13.6	13.6	13.6	13.6
80°	8.7	8.7	8.7	8.7
82.5°	5.8	5.8	5.8	5.8
85°	3.9	2.9	2.9	2.9
87.5°	1.9	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°





















(END OF REPORT)