

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: P212808

Luminaire Tested: **LD6B20D010 EU6B10209730 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212808
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 EU6B10209730 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1453.7 lumens
Efficiency: N/A
Efficacy: 69.9 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

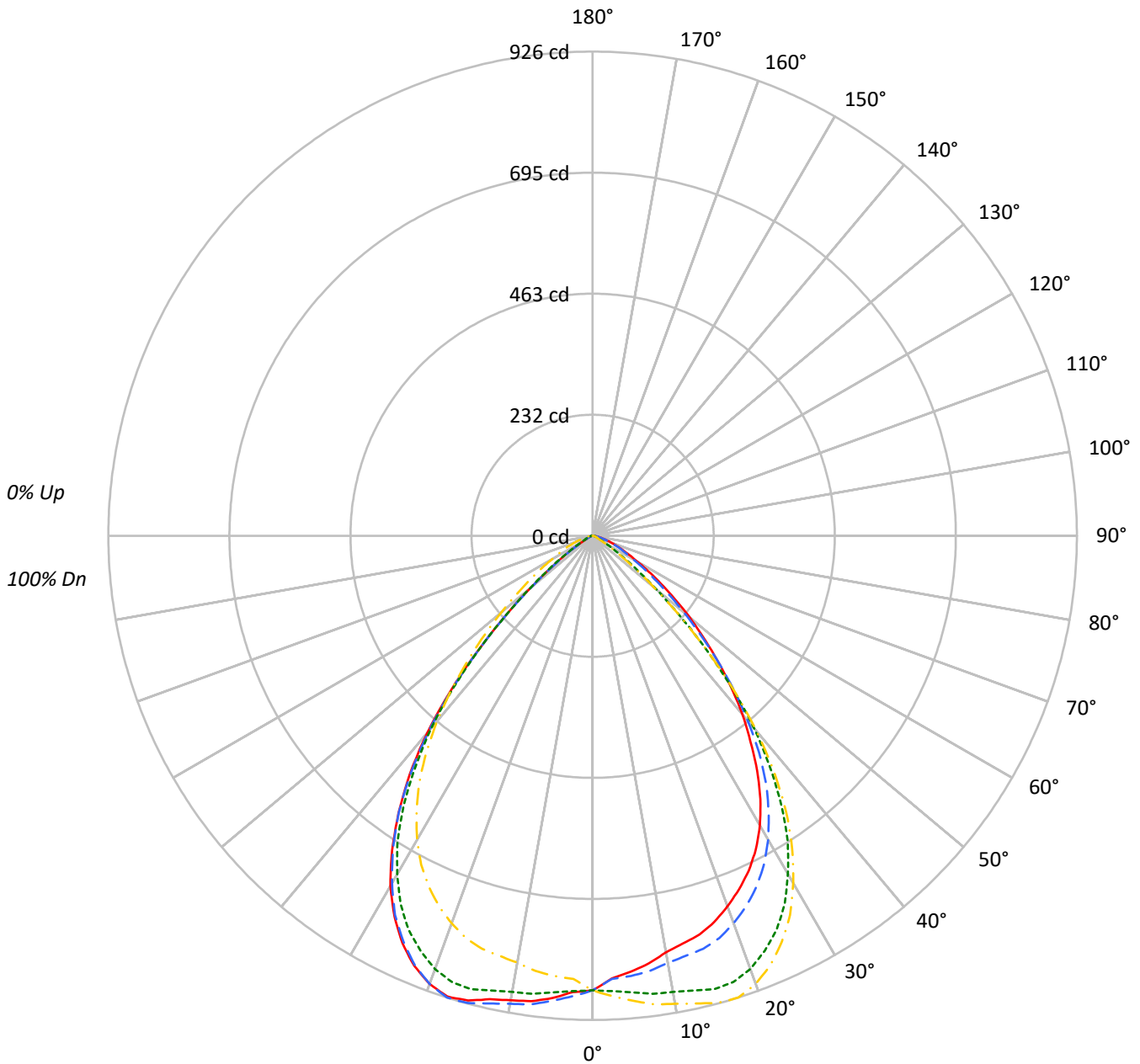
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91								
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82								
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73								
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66								
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60								
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54								
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49								
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45								
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42								
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	47666	47666	47666	47666
5°	46065	48233	48850	48233
10°	45017	49303	50205	49303
15°	44807	50954	52219	50954
20°	43993	51431	53205	51431
25°	42734	50325	52043	50325
30°	40494	47286	48951	47286
35°	36714	42135	43286	42135
40°	31874	34336	35202	34336
45°	26134	23700	23855	23700
50°	20545	13296	13032	13296
55°	15187	6576	5897	6576
60°	10767	2884	2105	2884
65°	8003	1842	1310	1842
70°	5834	1459	978	1459
75°	4279	1080	635	1080
80°	2873	947	316	947
85°	1887	629	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	5.7
10°-20°	246.5	17.0
20°-30°	367.9	25.3
30°-40°	378.0	26.0
40°-50°	244.8	16.8
50°-60°	91.0	6.3
60°-70°	29.9	2.1
70°-80°	10.5	0.7
80°-90°	1.9	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°	697.6	48.0
0°-40°	1075.6	74.0
0°-60°	1411.4	97.1
0°-90°	1453.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	870	870	870	870	870	
5°	837	876	888	876	837	79
15°	790	898	920	898	790	222
25°	706	832	860	832	706	324
35°	549	630	647	630	549	341
45°	337	306	308	306	337	261
55°	159	69	62	69	159	145
65°	62	14	10	14	62	63
75°	20	5	3	5	20	22
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°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	847.2	859.3	851.2	856.3	848.2	848.2	864.4	855.3	862.4	855.3	848.2
5°	837.1	852.3	842.1	847.2	840.1	841.1	856.3	849.2	856.3	851.2	845.2
7.5°	824.9	840.1	831.0	836.1	829.0	831.0	847.2	840.1	848.2	843.1	839.1
10°	808.7	824.9	816.8	821.9	815.8	816.8	833.0	828.0	835.0	832.0	829.0
12.5°	798.6	813.8	804.7	809.7	805.7	807.7	822.9	818.9	828.0	824.9	822.9
15°	789.5	803.7	795.6	800.6	797.6	798.6	814.8	810.8	820.9	818.9	817.8
17.5°	774.3	789.5	780.4	786.5	783.4	784.4	800.6	797.6	807.7	807.7	806.7
20°	754.1	769.3	762.2	766.2	764.2	766.2	780.4	778.4	788.5	788.5	788.5
22.5°	731.8	747.0	738.9	742.9	740.9	744.0	757.1	757.1	765.2	766.2	767.2
25°	706.5	721.7	713.6	718.6	716.6	718.6	730.8	731.8	738.9	738.9	740.9
27.5°	676.1	691.3	683.2	687.3	686.3	687.3	700.4	702.5	706.5	707.5	709.5
30°	639.7	653.9	645.8	649.8	649.8	649.8	663.0	664.0	668.0	669.1	671.1
32.5°	597.2	609.3	603.3	607.3	606.3	608.3	617.4	621.5	626.5	625.5	626.5
35°	548.6	561.8	555.7	558.7	559.7	562.8	568.8	573.9	574.9	575.9	578.0
37.5°	496.0	509.1	503.1	506.1	507.1	513.2	515.2	520.3	522.3	522.3	522.3
40°	445.4	451.4	446.4	449.4	450.4	455.5	457.5	461.6	463.6	462.6	461.6
42.5°	390.7	395.8	390.7	393.7	393.7	397.8	398.8	403.9	403.9	401.8	398.8
45°	337.1	342.1	337.1	339.1	339.1	343.1	343.1	343.1	345.2	342.1	337.1
47.5°	286.4	291.5	286.4	288.5	287.5	290.5	289.5	290.5	287.5	285.4	279.4
50°	240.9	242.9	240.9	239.9	240.9	242.9	241.9	241.9	237.9	234.8	227.7
52.5°	196.4	199.4	196.4	196.4	196.4	198.4	198.4	197.4	193.3	189.3	182.2
55°	158.9	160.9	159.9	158.9	158.9	160.9	158.9	158.9	154.9	151.8	144.7
57.5°	126.5	127.5	126.5	126.5	126.5	127.5	127.5	125.5	122.5	119.4	114.4
60°	98.2	99.2	99.2	98.2	98.2	100.2	100.2	99.2	96.2	94.1	89.1
62.5°	77.9	77.9	77.9	77.9	77.9	78.9	78.9	78.9	76.9	74.9	70.9
65°	61.7	62.8	61.7	61.7	62.8	63.8	62.8	63.8	61.7	60.7	57.7
67.5°	47.6	48.6	47.6	48.6	48.6	49.6	48.6	49.6	47.6	46.6	44.5
70°	36.4	36.4	36.4	36.4	36.4	37.5	36.4	37.5	36.4	35.4	33.4
72.5°	27.3	27.3	28.3	28.3	27.3	28.3	27.3	27.3	27.3	26.3	25.3
75°	20.2	20.2	21.3	20.2	20.2	20.2	20.2	20.2	19.2	19.2	18.2
77.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	13.2	13.2	12.1
80°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	8.1	8.1
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.1	5.1
85°	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	1.0	1.0	1.0	2.0	1.0	1.0	2.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	856.3	859.3	859.3	856.3	863.4	857.3	869.5	858.3	861.4	871.5	870.5
5°	853.3	857.3	858.3	856.3	865.4	860.4	872.5	861.4	866.4	876.5	876.5
7.5°	849.2	854.3	856.3	858.3	866.4	861.4	875.5	864.4	871.5	883.6	882.6
10°	840.1	847.2	851.2	854.3	862.4	859.3	874.5	865.4	871.5	885.7	884.6
12.5°	835.0	843.1	849.2	854.3	863.4	861.4	876.5	868.4	876.5	890.7	890.7
15°	831.0	840.1	847.2	856.3	865.4	863.4	879.6	872.5	880.6	897.8	896.8
17.5°	820.9	832.0	839.1	849.2	858.3	857.3	874.5	869.5	878.6	894.8	895.8
20°	803.7	813.8	821.9	834.0	844.2	842.1	860.4	855.3	864.4	881.6	882.6
22.5°	781.4	791.5	799.6	812.8	821.9	820.9	839.1	834.0	843.1	859.3	860.4
25°	755.1	764.2	772.3	784.4	794.6	794.6	810.8	805.7	815.8	832.0	832.0
27.5°	722.7	730.8	737.9	752.0	760.1	760.1	775.3	770.3	780.4	794.6	793.5
30°	683.2	690.3	696.4	708.5	715.6	716.6	729.8	724.7	734.8	747.0	747.0
32.5°	635.6	642.7	646.8	662.0	667.0	666.0	676.1	671.1	681.2	694.4	691.3
35°	585.0	588.1	591.1	606.3	608.3	604.3	614.4	609.3	616.4	629.6	627.6
37.5°	527.3	528.4	528.4	541.5	542.5	539.5	545.6	539.5	544.6	556.7	555.7
40°	463.6	462.6	461.6	471.7	470.7	464.6	468.6	463.6	470.7	479.8	474.7
42.5°	398.8	395.8	391.7	396.8	392.7	387.7	389.7	381.6	386.7	393.7	387.7
45°	335.0	329.0	320.9	321.9	316.8	310.7	307.7	299.6	298.6	305.7	300.6
47.5°	275.3	263.2	256.1	252.0	243.9	238.9	232.8	223.7	219.6	223.7	218.6
50°	221.7	209.5	200.4	191.3	183.2	177.1	167.0	160.9	154.9	155.9	151.8
52.5°	175.1	167.0	151.8	144.7	136.6	129.6	120.4	113.4	106.3	106.3	102.2
55°	138.7	127.5	117.4	107.3	99.2	93.1	84.0	76.9	69.8	68.8	64.8
57.5°	107.3	99.2	88.1	77.9	72.9	66.8	57.7	49.6	45.5	42.5	39.5
60°	83.0	74.9	65.8	57.7	51.6	47.6	38.5	32.4	28.3	26.3	23.3
62.5°	66.8	59.7	51.6	43.5	39.5	35.4	28.3	23.3	19.2	17.2	15.2
65°	53.6	47.6	41.5	35.4	32.4	28.3	23.3	19.2	16.2	14.2	12.1
67.5°	41.5	37.5	32.4	28.3	25.3	22.3	18.2	15.2	13.2	11.1	10.1
70°	31.4	28.3	25.3	21.3	19.2	17.2	14.2	11.1	10.1	9.1	8.1
72.5°	24.3	21.3	18.2	16.2	14.2	13.2	11.1	9.1	8.1	7.1	6.1
75°	16.2	15.2	13.2	11.1	10.1	9.1	8.1	7.1	6.1	5.1	5.1
77.5°	11.1	10.1	9.1	8.1	7.1	7.1	6.1	5.1	4.0	4.0	3.0
80°	7.1	6.1	6.1	5.1	5.1	5.1	4.0	3.0	3.0	3.0	2.0
82.5°	5.1	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0
85°	3.0	2.0	2.0	2.0	2.0	2.0	2.0	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°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	862.4	871.5	871.5	879.6	880.6	878.6	869.5	869.5	881.6	888.7	876.5
5°	870.5	879.6	879.6	887.7	891.7	888.7	879.6	880.6	892.7	900.8	888.7
7.5°	877.6	886.7	888.7	897.8	900.8	897.8	888.7	890.7	903.9	911.0	898.8
10°	880.6	889.7	890.7	900.8	904.9	900.8	893.8	894.8	908.9	914.0	902.9
12.5°	887.7	896.8	896.8	907.9	912.0	908.9	899.8	901.9	916.0	921.1	909.9
15°	894.8	903.9	903.9	916.0	921.1	917.0	909.9	911.0	925.1	930.2	921.1
17.5°	894.8	902.9	902.9	916.0	921.1	918.0	909.9	911.0	926.1	930.2	921.1
20°	881.6	890.7	888.7	901.9	906.9	903.9	896.8	896.8	912.0	916.0	906.9
22.5°	860.4	868.4	866.4	878.6	884.6	880.6	874.5	873.5	888.7	892.7	883.6
25°	831.0	839.1	837.1	849.2	855.3	850.2	843.1	844.2	856.3	862.4	854.3
27.5°	796.6	801.6	798.6	810.8	816.8	811.8	804.7	805.7	817.8	821.9	815.8
30°	750.0	754.1	751.0	761.2	765.2	762.2	756.1	756.1	767.2	772.3	766.2
32.5°	694.4	697.4	694.4	702.5	710.5	704.5	698.4	698.4	710.5	714.6	707.5
35°	629.6	632.6	630.6	638.7	644.8	636.7	631.6	629.6	645.8	643.7	639.7
37.5°	557.7	559.7	553.7	567.8	570.9	561.8	557.7	555.7	569.9	568.8	564.8
40°	476.7	478.8	474.7	484.8	485.8	478.8	475.7	472.7	486.9	485.8	482.8
42.5°	390.7	391.7	386.7	394.7	396.8	389.7	388.7	384.6	397.8	395.8	394.7
45°	301.6	301.6	297.6	303.7	305.7	299.6	297.6	296.6	305.7	305.7	303.7
47.5°	218.6	215.6	210.5	219.6	220.7	216.6	215.6	212.6	221.7	221.7	219.6
50°	149.8	148.8	147.8	149.8	150.8	145.8	148.8	145.8	150.8	150.8	150.8
52.5°	100.2	99.2	97.2	99.2	99.2	96.2	96.2	95.1	99.2	99.2	97.2
55°	62.8	61.7	60.7	61.7	61.7	58.7	60.7	58.7	60.7	60.7	59.7
57.5°	38.5	36.4	36.4	35.4	35.4	33.4	34.4	34.4	34.4	34.4	34.4
60°	22.3	21.3	20.2	20.2	20.2	19.2	19.2	19.2	19.2	19.2	19.2
62.5°	14.2	14.2	13.2	13.2	13.2	13.2	13.2	12.1	13.2	13.2	13.2
65°	12.1	11.1	11.1	11.1	11.1	10.1	10.1	10.1	10.1	10.1	10.1
67.5°	10.1	9.1	9.1	9.1	9.1	8.1	8.1	8.1	8.1	8.1	8.1
70°	8.1	7.1	7.1	7.1	7.1	7.1	6.1	7.1	7.1	6.1	6.1
72.5°	6.1	6.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
75°	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	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°	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°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	890.7	880.6	875.5	885.7	889.7	884.6	880.6	873.5	880.6	884.6	889.7
5°	902.9	893.8	889.7	896.8	902.9	897.8	894.8	887.7	894.8	897.8	902.9
7.5°	914.0	904.9	899.8	906.9	914.0	906.9	903.9	897.8	903.9	906.9	914.0
10°	918.0	907.9	903.9	909.9	917.0	909.9	905.9	901.9	905.9	909.9	917.0
12.5°	925.1	915.0	909.9	915.0	922.1	915.0	911.0	907.9	911.0	915.0	922.1
15°	935.3	926.1	920.1	925.1	934.2	926.1	921.1	920.1	921.1	926.1	934.2
17.5°	935.3	928.2	922.1	926.1	935.3	929.2	922.1	924.1	922.1	929.2	935.3
20°	922.1	915.0	909.9	909.9	923.1	915.0	908.9	912.0	908.9	915.0	923.1
22.5°	898.8	892.7	887.7	886.7	899.8	892.7	884.6	890.7	884.6	892.7	899.8
25°	868.4	862.4	858.3	856.3	869.5	861.4	854.3	860.4	854.3	861.4	869.5
27.5°	829.0	823.9	819.9	816.8	829.0	821.9	814.8	820.9	814.8	821.9	829.0
30°	778.4	775.3	771.3	767.2	779.4	772.3	765.2	773.3	765.2	772.3	779.4
32.5°	719.7	717.6	712.6	708.5	720.7	712.6	707.5	713.6	707.5	712.6	720.7
35°	651.8	648.8	645.8	638.7	651.8	644.8	644.8	646.8	644.8	644.8	651.8
37.5°	575.9	573.9	569.9	563.8	574.9	569.9	567.8	573.9	567.8	569.9	574.9
40°	490.9	489.9	486.9	479.8	491.9	486.9	483.8	491.9	483.8	486.9	491.9
42.5°	401.8	399.8	396.8	395.8	401.8	397.8	400.8	400.8	400.8	397.8	401.8
45°	309.7	307.7	305.7	301.6	308.7	306.7	305.7	307.7	305.7	306.7	308.7
47.5°	224.7	222.7	220.7	217.6	224.7	221.7	221.7	223.7	221.7	221.7	224.7
50°	150.8	151.8	150.8	148.8	150.8	149.8	150.8	152.8	150.8	149.8	150.8
52.5°	100.2	100.2	98.2	97.2	99.2	98.2	101.2	99.2	101.2	98.2	99.2
55°	60.7	61.7	60.7	59.7	60.7	59.7	62.8	61.7	62.8	59.7	60.7
57.5°	34.4	34.4	35.4	34.4	36.4	35.4	35.4	35.4	35.4	35.4	36.4
60°	19.2	19.2	19.2	19.2	19.2	19.2	20.2	19.2	20.2	19.2	19.2
62.5°	13.2	13.2	13.2	12.1	13.2	12.1	13.2	13.2	13.2	12.1	13.2
65°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
67.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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



TEST NUMBER: P212808

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	885.7	875.5	880.6	890.7	876.5	888.7	881.6	869.5	869.5	878.6	880.6
5°	896.8	889.7	893.8	902.9	888.7	900.8	892.7	880.6	879.6	888.7	891.7
7.5°	906.9	899.8	904.9	914.0	898.8	911.0	903.9	890.7	888.7	897.8	900.8
10°	909.9	903.9	907.9	918.0	902.9	914.0	908.9	894.8	893.8	900.8	904.9
12.5°	915.0	909.9	915.0	925.1	909.9	921.1	916.0	901.9	899.8	908.9	912.0
15°	925.1	920.1	926.1	935.3	921.1	930.2	925.1	911.0	909.9	917.0	921.1
17.5°	926.1	922.1	928.2	935.3	921.1	930.2	926.1	911.0	909.9	918.0	921.1
20°	909.9	909.9	915.0	922.1	906.9	916.0	912.0	896.8	896.8	903.9	906.9
22.5°	886.7	887.7	892.7	898.8	883.6	892.7	888.7	873.5	874.5	880.6	884.6
25°	856.3	858.3	862.4	868.4	854.3	862.4	856.3	844.2	843.1	850.2	855.3
27.5°	816.8	819.9	823.9	829.0	815.8	821.9	817.8	805.7	804.7	811.8	816.8
30°	767.2	771.3	775.3	778.4	766.2	772.3	767.2	756.1	756.1	762.2	765.2
32.5°	708.5	712.6	717.6	719.7	707.5	714.6	710.5	698.4	698.4	704.5	710.5
35°	638.7	645.8	648.8	651.8	639.7	643.7	645.8	629.6	631.6	636.7	644.8
37.5°	563.8	569.9	573.9	575.9	564.8	568.8	569.9	555.7	557.7	561.8	570.9
40°	479.8	486.9	489.9	490.9	482.8	485.8	486.9	472.7	475.7	478.8	485.8
42.5°	395.8	396.8	399.8	401.8	394.7	395.8	397.8	384.6	388.7	389.7	396.8
45°	301.6	305.7	307.7	309.7	303.7	305.7	305.7	296.6	297.6	299.6	305.7
47.5°	217.6	220.7	222.7	224.7	219.6	221.7	221.7	212.6	215.6	216.6	220.7
50°	148.8	150.8	151.8	150.8	150.8	150.8	150.8	145.8	148.8	145.8	150.8
52.5°	97.2	98.2	100.2	100.2	97.2	99.2	99.2	95.1	96.2	96.2	99.2
55°	59.7	60.7	61.7	60.7	59.7	60.7	60.7	58.7	60.7	58.7	61.7
57.5°	34.4	35.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	33.4	35.4
60°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	20.2
62.5°	12.1	13.2	13.2	13.2	13.2	13.2	13.2	12.1	13.2	13.2	13.2
65°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	11.1
67.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	9.1
70°	6.1	6.1	6.1	6.1	6.1	6.1	7.1	7.1	6.1	7.1	7.1
72.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
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	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°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	879.6	871.5	871.5	862.4	870.5	871.5	861.4	858.3	869.5	857.3	863.4
5°	887.7	879.6	879.6	870.5	876.5	876.5	866.4	861.4	872.5	860.4	865.4
7.5°	897.8	888.7	886.7	877.6	882.6	883.6	871.5	864.4	875.5	861.4	866.4
10°	900.8	890.7	889.7	880.6	884.6	885.7	871.5	865.4	874.5	859.3	862.4
12.5°	907.9	896.8	896.8	887.7	890.7	890.7	876.5	868.4	876.5	861.4	863.4
15°	916.0	903.9	903.9	894.8	896.8	897.8	880.6	872.5	879.6	863.4	865.4
17.5°	916.0	902.9	902.9	894.8	895.8	894.8	878.6	869.5	874.5	857.3	858.3
20°	901.9	888.7	890.7	881.6	882.6	881.6	864.4	855.3	860.4	842.1	844.2
22.5°	878.6	866.4	868.4	860.4	860.4	859.3	843.1	834.0	839.1	820.9	821.9
25°	849.2	837.1	839.1	831.0	832.0	832.0	815.8	805.7	810.8	794.6	794.6
27.5°	810.8	798.6	801.6	796.6	793.5	794.6	780.4	770.3	775.3	760.1	760.1
30°	761.2	751.0	754.1	750.0	747.0	747.0	734.8	724.7	729.8	716.6	715.6
32.5°	702.5	694.4	697.4	694.4	691.3	694.4	681.2	671.1	676.1	666.0	667.0
35°	638.7	630.6	632.6	629.6	627.6	629.6	616.4	609.3	614.4	604.3	608.3
37.5°	567.8	553.7	559.7	557.7	555.7	556.7	544.6	539.5	545.6	539.5	542.5
40°	484.8	474.7	478.8	476.7	474.7	479.8	470.7	463.6	468.6	464.6	470.7
42.5°	394.7	386.7	391.7	390.7	387.7	393.7	386.7	381.6	389.7	387.7	392.7
45°	303.7	297.6	301.6	301.6	300.6	305.7	298.6	299.6	307.7	310.7	316.8
47.5°	219.6	210.5	215.6	218.6	218.6	223.7	219.6	223.7	232.8	238.9	243.9
50°	149.8	147.8	148.8	149.8	151.8	155.9	154.9	160.9	167.0	177.1	183.2
52.5°	99.2	97.2	99.2	100.2	102.2	106.3	106.3	113.4	120.4	129.6	136.6
55°	61.7	60.7	61.7	62.8	64.8	68.8	69.8	76.9	84.0	93.1	99.2
57.5°	35.4	36.4	36.4	38.5	39.5	42.5	45.5	49.6	57.7	66.8	72.9
60°	20.2	20.2	21.3	22.3	23.3	26.3	28.3	32.4	38.5	47.6	51.6
62.5°	13.2	13.2	14.2	14.2	15.2	17.2	19.2	23.3	28.3	35.4	39.5
65°	11.1	11.1	11.1	12.1	12.1	14.2	16.2	19.2	23.3	28.3	32.4
67.5°	9.1	9.1	9.1	10.1	10.1	11.1	13.2	15.2	18.2	22.3	25.3
70°	7.1	7.1	7.1	8.1	8.1	9.1	10.1	11.1	14.2	17.2	19.2
72.5°	5.1	5.1	6.1	6.1	6.1	7.1	8.1	9.1	11.1	13.2	14.2
75°	4.0	4.0	4.0	4.0	5.1	5.1	6.1	7.1	8.1	9.1	10.1
77.5°	2.0	2.0	3.0	3.0	3.0	4.0	4.0	5.1	6.1	7.1	7.1
80°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	5.1	5.1
82.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	3.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
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



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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	856.3	859.3	859.3	856.3	848.2	855.3	862.4	855.3	864.4	848.2	848.2
5°	856.3	858.3	857.3	853.3	845.2	851.2	856.3	849.2	856.3	841.1	840.1
7.5°	858.3	856.3	854.3	849.2	839.1	843.1	848.2	840.1	847.2	831.0	829.0
10°	854.3	851.2	847.2	840.1	829.0	832.0	835.0	828.0	833.0	816.8	815.8
12.5°	854.3	849.2	843.1	835.0	822.9	824.9	828.0	818.9	822.9	807.7	805.7
15°	856.3	847.2	840.1	831.0	817.8	818.9	820.9	810.8	814.8	798.6	797.6
17.5°	849.2	839.1	832.0	820.9	806.7	807.7	807.7	797.6	800.6	784.4	783.4
20°	834.0	821.9	813.8	803.7	788.5	788.5	788.5	778.4	780.4	766.2	764.2
22.5°	812.8	799.6	791.5	781.4	767.2	766.2	765.2	757.1	757.1	744.0	740.9
25°	784.4	772.3	764.2	755.1	740.9	738.9	738.9	731.8	730.8	718.6	716.6
27.5°	752.0	737.9	730.8	722.7	709.5	707.5	706.5	702.5	700.4	687.3	686.3
30°	708.5	696.4	690.3	683.2	671.1	669.1	668.0	664.0	663.0	649.8	649.8
32.5°	662.0	646.8	642.7	635.6	626.5	625.5	626.5	621.5	617.4	608.3	606.3
35°	606.3	591.1	588.1	585.0	578.0	575.9	574.9	573.9	568.8	562.8	559.7
37.5°	541.5	528.4	528.4	527.3	522.3	522.3	522.3	520.3	515.2	513.2	507.1
40°	471.7	461.6	462.6	463.6	461.6	462.6	463.6	461.6	457.5	455.5	450.4
42.5°	396.8	391.7	395.8	398.8	398.8	401.8	403.9	403.9	398.8	397.8	393.7
45°	321.9	320.9	329.0	335.0	337.1	342.1	345.2	343.1	343.1	343.1	339.1
47.5°	252.0	256.1	263.2	275.3	279.4	285.4	287.5	290.5	289.5	290.5	287.5
50°	191.3	200.4	209.5	221.7	227.7	234.8	237.9	241.9	241.9	242.9	240.9
52.5°	144.7	151.8	167.0	175.1	182.2	189.3	193.3	197.4	198.4	198.4	196.4
55°	107.3	117.4	127.5	138.7	144.7	151.8	154.9	158.9	158.9	160.9	158.9
57.5°	77.9	88.1	99.2	107.3	114.4	119.4	122.5	125.5	127.5	127.5	126.5
60°	57.7	65.8	74.9	83.0	89.1	94.1	96.2	99.2	100.2	100.2	98.2
62.5°	43.5	51.6	59.7	66.8	70.9	74.9	76.9	78.9	78.9	78.9	77.9
65°	35.4	41.5	47.6	53.6	57.7	60.7	61.7	63.8	62.8	63.8	62.8
67.5°	28.3	32.4	37.5	41.5	44.5	46.6	47.6	49.6	48.6	49.6	48.6
70°	21.3	25.3	28.3	31.4	33.4	35.4	36.4	37.5	36.4	37.5	36.4
72.5°	16.2	18.2	21.3	24.3	25.3	26.3	27.3	27.3	27.3	28.3	27.3
75°	11.1	13.2	15.2	16.2	18.2	19.2	19.2	20.2	20.2	20.2	20.2
77.5°	8.1	9.1	10.1	11.1	12.1	13.2	13.2	14.2	14.2	14.2	14.2
80°	5.1	6.1	6.1	7.1	8.1	8.1	9.1	9.1	9.1	9.1	9.1
82.5°	3.0	4.0	4.0	5.1	5.1	5.1	6.1	6.1	6.1	6.1	6.1
85°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	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):

	345°	350°	355°	360°
0°	869.5	869.5	869.5	869.5
2.5°	856.3	851.2	859.3	847.2
5°	847.2	842.1	852.3	837.1
7.5°	836.1	831.0	840.1	824.9
10°	821.9	816.8	824.9	808.7
12.5°	809.7	804.7	813.8	798.6
15°	800.6	795.6	803.7	789.5
17.5°	786.5	780.4	789.5	774.3
20°	766.2	762.2	769.3	754.1
22.5°	742.9	738.9	747.0	731.8
25°	718.6	713.6	721.7	706.5
27.5°	687.3	683.2	691.3	676.1
30°	649.8	645.8	653.9	639.7
32.5°	607.3	603.3	609.3	597.2
35°	558.7	555.7	561.8	548.6
37.5°	506.1	503.1	509.1	496.0
40°	449.4	446.4	451.4	445.4
42.5°	393.7	390.7	395.8	390.7
45°	339.1	337.1	342.1	337.1
47.5°	288.5	286.4	291.5	286.4
50°	239.9	240.9	242.9	240.9
52.5°	196.4	196.4	199.4	196.4
55°	158.9	159.9	160.9	158.9
57.5°	126.5	126.5	127.5	126.5
60°	98.2	99.2	99.2	98.2
62.5°	77.9	77.9	77.9	77.9
65°	61.7	61.7	62.8	61.7
67.5°	48.6	47.6	48.6	47.6
70°	36.4	36.4	36.4	36.4
72.5°	28.3	28.3	27.3	27.3
75°	20.2	21.3	20.2	20.2
77.5°	14.2	14.2	14.2	14.2
80°	9.1	9.1	9.1	9.1
82.5°	6.1	6.1	6.1	6.1
85°	4.0	3.0	3.0	3.0
87.5°	2.0	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)