

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P245954

Luminaire Tested: **LD8B20D010 ER8B20930 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B20930 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1384.4 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

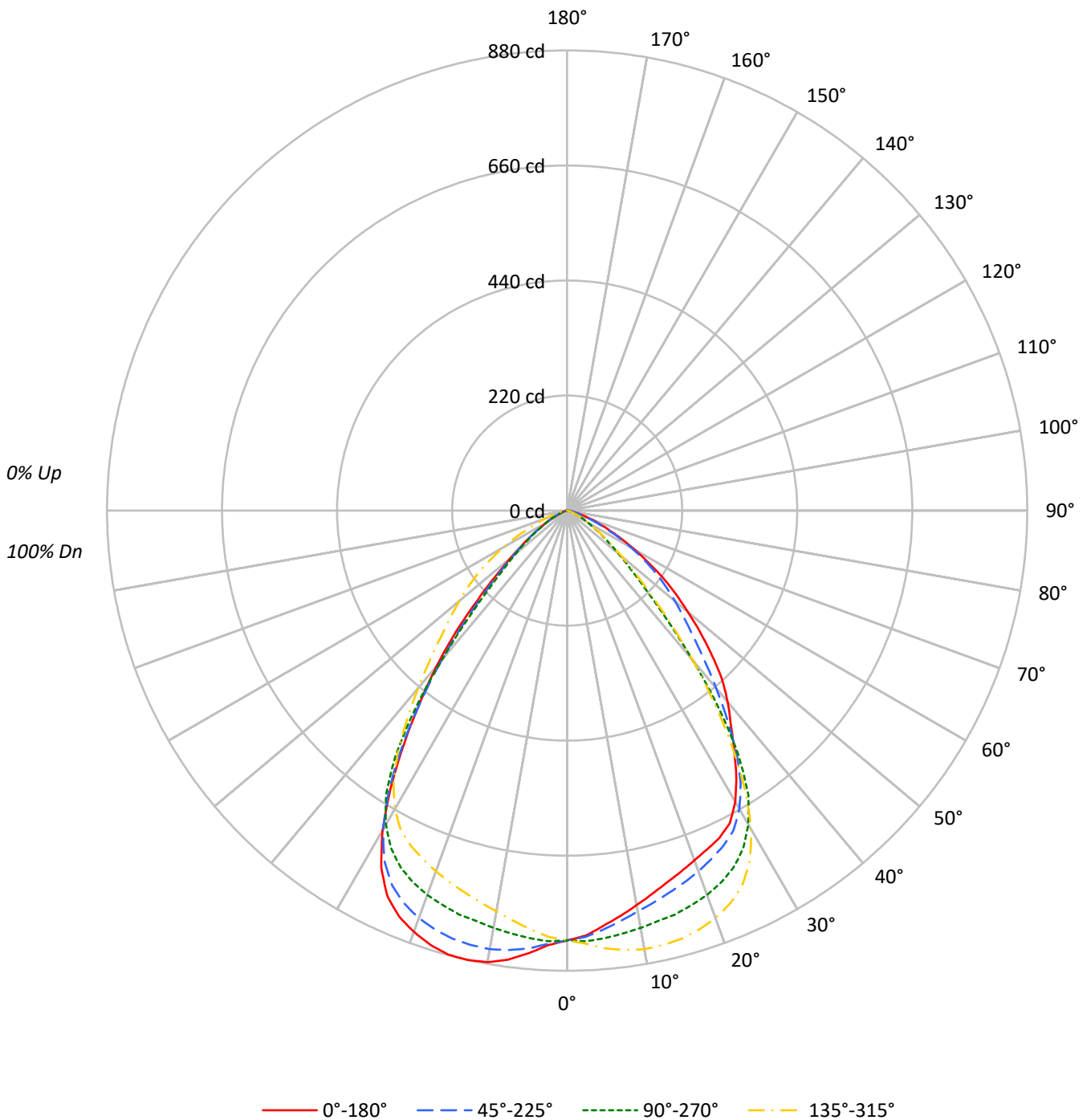
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	5.7
10°-20°	226.5	16.4
20°-30°	343.0	24.8
30°-40°	343.8	24.8
40°-50°	215.9	15.6
50°-60°	115.0	8.3
60°-70°	47.3	3.4
70°-80°	12.5	0.9
80°-90°	2.1	0.2
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°	647.8	46.8
0°-40°	991.6	71.6
0°-60°	1322.5	95.5
0°-90°	1384.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1384.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	822	822	822	822	822	
5°	797	821	850	821	797	75
15°	736	799	879	799	736	208
25°	690	753	814	753	690	316
35°	556	572	543	572	556	348
45°	392	210	242	210	392	301
55°	223	78	82	78	223	199
65°	89	24	22	24	89	92
75°	25	5	4	5	25	28
85°	5	0	0	0	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	813.5	812.6	812.3	813.1	813.5	815.1	814.6	815.4	815.4	815.9	816.6
5°	797.0	796.6	797.0	797.0	798.6	800.2	799.8	801.1	801.9	803.9	804.7
7.5°	781.8	781.8	781.3	782.9	783.8	786.2	785.8	787.8	789.0	791.0	793.8
10°	766.1	766.1	766.5	767.7	768.1	771.7	771.7	774.5	776.2	778.2	781.8
12.5°	750.8	750.8	753.3	752.4	754.1	756.9	758.1	760.9	763.3	767.3	770.9
15°	736.4	736.4	737.2	739.2	740.4	744.0	746.0	749.3	752.1	756.1	761.3
17.5°	723.9	723.6	723.9	726.4	728.8	732.0	733.6	737.6	740.4	745.7	750.5
20°	711.5	712.4	712.4	714.3	716.0	719.9	721.6	726.0	729.2	734.0	739.6
22.5°	700.7	700.3	700.3	703.1	704.3	707.9	709.5	713.5	717.1	721.1	726.4
25°	689.9	689.1	690.6	691.1	691.9	695.9	697.0	699.8	703.5	707.1	712.4
27.5°	673.8	673.0	673.4	675.1	676.2	679.4	680.2	683.0	685.8	689.1	693.5
30°	642.9	642.1	641.7	644.6	645.7	648.2	649.3	654.1	654.9	658.6	661.7
32.5°	602.0	601.5	602.4	604.8	606.0	609.2	610.8	613.6	615.7	617.7	620.8
35°	556.2	555.5	556.2	558.6	558.6	561.4	562.6	563.9	563.4	563.9	563.1
37.5°	513.6	513.3	513.6	514.9	513.6	514.9	513.6	511.3	506.9	502.1	497.3
40°	477.5	478.0	475.5	477.2	472.7	471.9	467.6	461.5	452.7	443.0	429.5
42.5°	439.1	437.9	436.3	437.1	433.4	430.6	423.4	415.8	404.6	388.4	372.1
45°	391.7	391.3	390.4	390.1	387.6	384.8	378.8	370.0	357.6	341.1	321.5
47.5°	345.5	344.4	344.4	344.7	341.9	341.6	336.7	329.1	318.3	302.2	281.7
50°	301.3	301.0	301.8	303.3	301.3	300.5	297.4	292.1	282.5	268.9	249.6
52.5°	261.6	261.3	262.1	264.1	263.2	264.1	260.9	256.8	250.4	237.2	220.3
55°	222.7	222.7	222.7	225.1	225.1	225.1	223.5	221.2	215.1	205.5	189.8
57.5°	182.2	182.6	185.0	185.4	185.0	185.9	185.4	182.9	179.0	172.2	160.1
60°	148.1	148.1	149.3	150.6	150.1	150.6	150.6	149.3	145.3	139.7	130.0
62.5°	117.1	118.4	117.6	118.4	119.9	118.4	117.6	116.8	114.0	110.3	102.3
65°	88.7	89.5	89.5	89.9	89.1	89.5	87.9	86.7	85.1	81.0	75.9
67.5°	67.5	67.5	67.5	67.5	67.0	66.6	66.3	65.0	62.2	60.6	54.9
70°	51.8	49.3	49.3	49.3	49.3	49.8	48.5	47.0	46.2	43.4	39.3
72.5°	34.5	35.3	34.5	34.5	33.7	34.1	32.5	31.7	30.9	29.3	26.9
75°	24.9	22.9	23.7	24.1	22.9	23.7	22.1	20.5	20.5	19.3	18.0
77.5°	16.0	15.7	16.0	16.5	16.0	15.7	14.8	14.0	14.0	13.7	12.4
80°	11.7	11.2	11.2	11.2	10.9	11.2	10.4	10.4	9.6	9.2	8.4
82.5°	7.6	7.6	7.2	7.6	7.2	7.6	6.4	6.4	6.4	6.1	5.3
85°	5.3	4.4	4.4	4.8	4.0	4.8	4.4	4.0	3.6	3.6	3.3
87.5°	2.5	2.8	2.5	2.8	2.5	2.5	2.8	2.5	2.5	1.6	1.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	817.9	818.3	818.3	819.9	820.7	821.1	821.1	824.3	823.2	823.9	824.7
5°	806.2	808.7	809.5	809.5	813.8	815.4	817.1	820.7	821.1	823.5	826.3
7.5°	795.0	797.8	799.4	803.1	805.9	808.7	813.5	815.9	818.3	821.5	825.1
10°	784.1	787.4	790.6	793.4	797.8	801.4	804.7	810.3	813.1	817.4	822.3
12.5°	773.7	778.2	781.0	785.8	790.6	793.8	798.6	803.9	808.2	812.6	818.3
15°	764.5	769.7	772.9	778.2	783.4	787.8	793.0	799.4	802.6	807.9	813.1
17.5°	754.4	760.2	764.1	768.9	775.4	780.1	784.6	791.0	795.0	800.6	806.7
20°	744.0	749.6	754.4	759.3	765.8	770.6	775.7	782.1	786.6	792.2	797.0
22.5°	731.6	736.8	742.0	747.6	754.1	758.1	764.1	769.7	774.5	779.8	784.6
25°	715.5	721.9	726.0	731.2	736.4	740.9	747.3	752.9	756.9	761.7	766.1
27.5°	696.7	701.5	704.7	709.1	714.3	718.3	723.2	728.8	732.8	737.2	740.4
30°	664.5	669.0	671.8	675.1	680.2	683.8	687.8	693.1	695.9	699.1	701.9
32.5°	622.4	626.1	627.6	630.1	633.7	637.3	640.5	644.9	646.1	648.2	648.2
35°	561.4	562.3	561.8	562.6	564.3	566.2	569.0	571.8	573.5	573.5	572.3
37.5°	490.0	485.2	480.0	476.0	474.7	474.0	475.5	476.8	478.3	479.1	477.2
40°	415.8	404.9	393.2	382.8	375.6	372.4	371.3	372.1	372.1	374.9	374.9
42.5°	352.0	335.1	317.8	302.2	291.8	283.7	280.1	280.1	280.5	282.5	283.7
45°	299.0	277.7	257.6	240.3	226.0	215.5	210.7	209.5	209.1	209.9	212.7
47.5°	258.5	236.4	215.5	194.3	179.0	168.6	164.1	162.5	161.0	162.5	163.0
50°	226.8	203.9	181.8	160.5	144.5	135.2	129.6	127.2	126.8	126.8	127.6
52.5°	197.9	176.6	154.5	132.8	116.0	107.2	101.9	100.8	99.1	100.8	100.8
55°	170.5	149.3	127.6	107.2	93.0	83.9	79.0	77.5	76.7	77.8	77.8
57.5°	140.9	122.7	102.8	84.3	70.3	63.8	60.2	58.2	57.7	58.6	57.7
60°	115.6	100.3	83.1	66.3	55.4	48.5	45.7	45.0	44.2	45.0	45.0
62.5°	91.5	78.7	64.6	51.8	42.5	37.8	34.5	34.5	34.1	34.1	34.5
65°	67.8	57.7	47.8	36.9	29.7	26.1	23.7	23.7	23.3	23.7	23.3
67.5°	49.3	42.5	34.5	26.9	21.3	19.3	17.7	16.5	17.3	16.5	16.0
70°	36.1	30.5	24.9	20.5	16.5	14.5	13.2	12.8	12.0	12.0	12.0
72.5°	24.1	20.5	16.8	13.2	10.9	8.9	8.4	7.6	6.8	7.2	8.1
75°	16.0	13.7	12.0	9.6	7.2	7.2	4.8	4.8	4.0	4.8	3.6
77.5°	11.2	9.2	7.2	6.1	4.8	4.4	3.3	3.3	2.8	2.8	2.8
80°	8.1	6.8	5.3	4.4	3.3	3.3	2.8	2.5	2.0	2.0	2.5
82.5°	4.8	3.6	3.6	3.3	2.0	1.6	1.2	1.6	0.8	0.8	0.8
85°	2.8	2.5	2.0	1.2	0.8	0.8	0.4	0.0	0.4	0.4	0.0
87.5°	1.6	0.8	0.8	0.4	0.0	0.4	0.4	0.0	0.0	0.0	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	826.7	826.3	827.1	827.1	829.5	829.1	830.3	830.3	829.5	829.9	831.6
5°	829.5	830.8	833.1	835.1	838.7	840.4	842.3	844.3	844.8	846.0	847.1
7.5°	829.5	833.6	836.4	840.0	844.8	847.6	852.0	855.7	857.2	859.2	861.6
10°	827.9	831.9	837.2	841.2	847.1	851.6	856.0	861.6	864.1	867.2	870.5
12.5°	824.7	829.1	834.7	840.0	846.8	850.8	856.4	861.6	865.2	869.7	873.3
15°	819.9	825.1	830.3	835.6	842.8	847.6	852.9	858.8	862.4	867.2	870.5
17.5°	812.3	817.9	822.7	827.5	834.4	840.0	844.8	850.4	854.0	858.0	862.4
20°	803.1	808.2	813.5	817.4	824.3	829.1	834.4	839.5	842.3	843.2	849.9
22.5°	791.4	795.0	799.0	805.4	809.5	813.8	818.7	823.5	826.3	830.8	833.1
25°	772.1	775.7	780.1	782.9	787.8	791.4	796.2	801.4	803.1	806.2	808.7
27.5°	745.2	747.3	749.3	751.6	754.4	756.5	759.3	761.7	763.3	764.9	766.5
30°	702.6	702.6	702.6	701.1	702.3	703.5	703.9	703.5	703.5	703.1	703.1
32.5°	646.5	643.3	639.6	636.5	635.3	633.7	632.9	631.7	629.7	628.4	628.9
35°	570.7	563.4	559.0	555.0	551.9	549.4	548.2	547.0	546.6	545.0	543.3
37.5°	476.0	470.7	467.6	465.1	462.3	459.9	460.3	460.7	461.9	461.1	461.5
40°	375.6	374.4	375.6	372.8	372.1	372.8	374.9	377.7	379.2	380.8	383.6
42.5°	285.7	287.8	290.6	290.6	291.8	293.4	295.7	300.2	302.6	305.4	308.6
45°	215.1	217.5	221.2	222.3	223.1	225.1	228.0	231.6	233.2	235.5	238.3
47.5°	165.8	167.4	169.4	171.4	173.3	174.2	177.0	177.0	179.0	180.6	181.4
50°	129.3	130.8	132.4	133.6	134.4	135.6	136.4	137.7	138.0	138.9	139.2
52.5°	101.1	103.1	103.1	103.9	105.1	106.4	105.9	106.4	106.7	106.7	108.0
55°	79.0	79.0	80.3	80.3	81.0	80.7	81.0	81.0	81.0	81.0	81.5
57.5°	59.0	59.4	60.6	59.7	59.4	60.2	59.4	60.2	59.7	60.6	59.4
60°	45.3	45.3	45.7	45.7	46.2	46.2	46.2	45.7	45.7	45.3	45.3
62.5°	34.1	34.5	35.0	34.5	34.5	34.5	34.1	34.1	33.7	33.3	33.3
65°	22.9	22.5	23.3	22.5	22.9	22.9	22.5	22.9	21.6	22.1	21.6
67.5°	16.5	16.0	15.7	16.0	15.7	15.2	15.2	15.7	16.0	14.8	14.8
70°	10.9	11.2	10.9	11.2	11.7	11.7	11.2	10.9	11.2	10.4	10.9
72.5°	6.8	6.8	6.8	6.8	6.8	7.2	7.2	7.2	6.4	6.4	6.1
75°	3.3	4.4	3.6	3.3	4.4	4.4	4.0	4.0	3.6	3.6	3.6
77.5°	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.0
80°	1.6	1.6	1.6	1.2	1.6	1.6	2.0	1.6	1.6	1.2	2.0
82.5°	0.8	0.8	0.8	0.0	0.4	0.8	0.8	0.4	0.8	0.8	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	831.1	830.8	831.1	831.6	831.1	830.8	831.1	831.6	829.9	829.5	830.3
5°	848.8	848.8	849.6	849.9	849.6	848.8	848.8	847.1	846.0	844.8	844.3
7.5°	864.1	864.9	865.6	866.1	865.6	864.9	864.1	861.6	859.2	857.2	855.7
10°	873.3	874.5	876.1	876.8	876.1	874.5	873.3	870.5	867.2	864.1	861.6
12.5°	877.3	878.5	880.4	880.1	880.4	878.5	877.3	873.3	869.7	865.2	861.6
15°	874.5	876.1	878.1	878.9	878.1	876.1	874.5	870.5	867.2	862.4	858.8
17.5°	865.6	868.1	869.2	870.5	869.2	868.1	865.6	862.4	858.0	854.0	850.4
20°	853.6	855.2	856.8	857.2	856.8	855.2	853.6	849.9	843.2	842.3	839.5
22.5°	836.4	837.5	841.2	840.0	841.2	837.5	836.4	833.1	830.8	826.3	823.5
25°	811.5	812.6	813.1	813.5	813.1	812.6	811.5	808.7	806.2	803.1	801.4
27.5°	768.6	768.6	769.3	769.7	769.3	768.6	768.6	766.5	764.9	763.3	761.7
30°	703.5	703.5	703.5	705.6	703.5	703.5	703.5	703.1	703.1	703.5	703.5
32.5°	628.4	627.6	626.9	627.6	626.9	627.6	628.4	628.9	628.4	629.7	631.7
35°	543.3	543.0	544.1	542.6	544.1	543.0	543.3	543.3	545.0	546.6	547.0
37.5°	461.9	461.1	462.7	461.1	462.7	461.1	461.9	461.5	461.1	461.9	460.7
40°	384.5	385.3	385.3	388.4	385.3	385.3	384.5	383.6	380.8	379.2	377.7
42.5°	310.2	312.6	311.9	314.2	311.9	312.6	310.2	308.6	305.4	302.6	300.2
45°	240.0	241.6	241.6	242.4	241.6	241.6	240.0	238.3	235.5	233.2	231.6
47.5°	184.2	184.2	184.2	184.6	184.2	184.2	184.2	181.4	180.6	179.0	177.0
50°	140.0	140.5	140.9	141.2	140.9	140.5	140.0	139.2	138.9	138.0	137.7
52.5°	107.5	108.0	107.2	108.0	107.2	108.0	107.5	108.0	106.7	106.7	106.4
55°	81.5	81.0	81.5	81.8	81.5	81.0	81.5	81.5	81.0	81.0	81.0
57.5°	59.7	59.0	59.0	59.0	59.0	59.0	59.7	59.4	60.6	59.7	60.2
60°	44.5	45.0	45.0	45.3	45.0	45.0	44.5	45.3	45.3	45.7	45.7
62.5°	33.0	34.1	33.3	34.1	33.3	34.1	33.0	33.3	33.3	33.7	34.1
65°	21.3	21.3	21.3	21.6	21.3	21.3	21.3	21.6	22.1	21.6	22.9
67.5°	14.5	14.8	15.7	15.2	15.7	14.8	14.5	14.8	14.8	16.0	15.7
70°	11.7	10.4	10.4	11.7	10.4	10.4	11.7	10.9	10.4	11.2	10.9
72.5°	6.8	6.1	6.8	6.8	6.8	6.1	6.8	6.1	6.4	6.4	7.2
75°	3.6	3.3	2.8	4.0	2.8	3.3	3.6	3.6	3.6	3.6	4.0
77.5°	2.5	2.0	2.8	2.8	2.8	2.0	2.5	2.0	2.5	2.0	2.5
80°	1.2	1.6	1.2	2.0	1.2	1.6	1.2	2.0	1.2	1.6	1.6
82.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.8	0.8	0.4
85°	0.0	0.8	0.4	0.4	0.4	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.4	0.0	0.0	0.4	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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	830.3	829.1	829.5	827.1	827.1	826.3	826.7	824.7	823.9	823.2	824.3
5°	842.3	840.4	838.7	835.1	833.1	830.8	829.5	826.3	823.5	821.1	820.7
7.5°	852.0	847.6	844.8	840.0	836.4	833.6	829.5	825.1	821.5	818.3	815.9
10°	856.0	851.6	847.1	841.2	837.2	831.9	827.9	822.3	817.4	813.1	810.3
12.5°	856.4	850.8	846.8	840.0	834.7	829.1	824.7	818.3	812.6	808.2	803.9
15°	852.9	847.6	842.8	835.6	830.3	825.1	819.9	813.1	807.9	802.6	799.4
17.5°	844.8	840.0	834.4	827.5	822.7	817.9	812.3	806.7	800.6	795.0	791.0
20°	834.4	829.1	824.3	817.4	813.5	808.2	803.1	797.0	792.2	786.6	782.1
22.5°	818.7	813.8	809.5	805.4	799.0	795.0	791.4	784.6	779.8	774.5	769.7
25°	796.2	791.4	787.8	782.9	780.1	775.7	772.1	766.1	761.7	756.9	752.9
27.5°	759.3	756.5	754.4	751.6	749.3	747.3	745.2	740.4	737.2	732.8	728.8
30°	703.9	703.5	702.3	701.1	702.6	702.6	702.6	701.9	699.1	695.9	693.1
32.5°	632.9	633.7	635.3	636.5	639.6	643.3	646.5	648.2	648.2	646.1	644.9
35°	548.2	549.4	551.9	555.0	559.0	563.4	570.7	572.3	573.5	573.5	571.8
37.5°	460.3	459.9	462.3	465.1	467.6	470.7	476.0	477.2	479.1	478.3	476.8
40°	374.9	372.8	372.1	372.8	375.6	374.4	375.6	374.9	374.9	372.1	372.1
42.5°	295.7	293.4	291.8	290.6	290.6	287.8	285.7	283.7	282.5	280.5	280.1
45°	228.0	225.1	223.1	222.3	221.2	217.5	215.1	212.7	209.9	209.1	209.5
47.5°	177.0	174.2	173.3	171.4	169.4	167.4	165.8	163.0	162.5	161.0	162.5
50°	136.4	135.6	134.4	133.6	132.4	130.8	129.3	127.6	126.8	126.8	127.2
52.5°	105.9	106.4	105.1	103.9	103.1	103.1	101.1	100.8	100.8	99.1	100.8
55°	81.0	80.7	81.0	80.3	80.3	79.0	79.0	77.8	77.8	76.7	77.5
57.5°	59.4	60.2	59.4	59.7	60.6	59.4	59.0	57.7	58.6	57.7	58.2
60°	46.2	46.2	46.2	45.7	45.7	45.3	45.3	45.0	45.0	44.2	45.0
62.5°	34.1	34.5	34.5	34.5	35.0	34.5	34.1	34.5	34.1	34.1	34.5
65°	22.5	22.9	22.9	22.5	23.3	22.5	22.9	23.3	23.7	23.3	23.7
67.5°	15.2	15.2	15.7	16.0	15.7	16.0	16.5	16.0	16.5	17.3	16.5
70°	11.2	11.7	11.7	11.2	10.9	11.2	10.9	12.0	12.0	12.0	12.8
72.5°	7.2	7.2	6.8	6.8	6.8	6.8	6.8	8.1	7.2	6.8	7.6
75°	4.0	4.4	4.4	3.3	3.6	4.4	3.3	3.6	4.8	4.0	4.8
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.3	2.8	2.8	2.8	3.3
80°	2.0	1.6	1.6	1.2	1.6	1.6	1.6	2.5	2.0	2.0	2.5
82.5°	0.8	0.8	0.4	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	821.1	821.1	820.7	819.9	818.3	818.3	817.9	816.6	815.9	815.4	815.4
5°	817.1	815.4	813.8	809.5	809.5	808.7	806.2	804.7	803.9	801.9	801.1
7.5°	813.5	808.7	805.9	803.1	799.4	797.8	795.0	793.8	791.0	789.0	787.8
10°	804.7	801.4	797.8	793.4	790.6	787.4	784.1	781.8	778.2	776.2	774.5
12.5°	798.6	793.8	790.6	785.8	781.0	778.2	773.7	770.9	767.3	763.3	760.9
15°	793.0	787.8	783.4	778.2	772.9	769.7	764.5	761.3	756.1	752.1	749.3
17.5°	784.6	780.1	775.4	768.9	764.1	760.2	754.4	750.5	745.7	740.4	737.6
20°	775.7	770.6	765.8	759.3	754.4	749.6	744.0	739.6	734.0	729.2	726.0
22.5°	764.1	758.1	754.1	747.6	742.0	736.8	731.6	726.4	721.1	717.1	713.5
25°	747.3	740.9	736.4	731.2	726.0	721.9	715.5	712.4	707.1	703.5	699.8
27.5°	723.2	718.3	714.3	709.1	704.7	701.5	696.7	693.5	689.1	685.8	683.0
30°	687.8	683.8	680.2	675.1	671.8	669.0	664.5	661.7	658.6	654.9	654.1
32.5°	640.5	637.3	633.7	630.1	627.6	626.1	622.4	620.8	617.7	615.7	613.6
35°	569.0	566.2	564.3	562.6	561.8	562.3	561.4	563.1	563.9	563.4	563.9
37.5°	475.5	474.0	474.7	476.0	480.0	485.2	490.0	497.3	502.1	506.9	511.3
40°	371.3	372.4	375.6	382.8	393.2	404.9	415.8	429.5	443.0	452.7	461.5
42.5°	280.1	283.7	291.8	302.2	317.8	335.1	352.0	372.1	388.4	404.6	415.8
45°	210.7	215.5	226.0	240.3	257.6	277.7	299.0	321.5	341.1	357.6	370.0
47.5°	164.1	168.6	179.0	194.3	215.5	236.4	258.5	281.7	302.2	318.3	329.1
50°	129.6	135.2	144.5	160.5	181.8	203.9	226.8	249.6	268.9	282.5	292.1
52.5°	101.9	107.2	116.0	132.8	154.5	176.6	197.9	220.3	237.2	250.4	256.8
55°	79.0	83.9	93.0	107.2	127.6	149.3	170.5	189.8	205.5	215.1	221.2
57.5°	60.2	63.8	70.3	84.3	102.8	122.7	140.9	160.1	172.2	179.0	182.9
60°	45.7	48.5	55.4	66.3	83.1	100.3	115.6	130.0	139.7	145.3	149.3
62.5°	34.5	37.8	42.5	51.8	64.6	78.7	91.5	102.3	110.3	114.0	116.8
65°	23.7	26.1	29.7	36.9	47.8	57.7	67.8	75.9	81.0	85.1	86.7
67.5°	17.7	19.3	21.3	26.9	34.5	42.5	49.3	54.9	60.6	62.2	65.0
70°	13.2	14.5	16.5	20.5	24.9	30.5	36.1	39.3	43.4	46.2	47.0
72.5°	8.4	8.9	10.9	13.2	16.8	20.5	24.1	26.9	29.3	30.9	31.7
75°	4.8	7.2	7.2	9.6	12.0	13.7	16.0	18.0	19.3	20.5	20.5
77.5°	3.3	4.4	4.8	6.1	7.2	9.2	11.2	12.4	13.7	14.0	14.0
80°	2.8	3.3	3.3	4.4	5.3	6.8	8.1	8.4	9.2	9.6	10.4
82.5°	1.2	1.6	2.0	3.3	3.6	3.6	4.8	5.3	6.1	6.4	6.4
85°	0.4	0.8	0.8	1.2	2.0	2.5	2.8	3.3	3.6	3.6	4.0
87.5°	0.4	0.4	0.0	0.4	0.8	0.8	1.6	1.6	1.6	2.5	2.5
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: P245954

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	814.6	815.1	813.5	813.1	812.3	812.6	813.5
5°	799.8	800.2	798.6	797.0	797.0	796.6	797.0
7.5°	785.8	786.2	783.8	782.9	781.3	781.8	781.8
10°	771.7	771.7	768.1	767.7	766.5	766.1	766.1
12.5°	758.1	756.9	754.1	752.4	753.3	750.8	750.8
15°	746.0	744.0	740.4	739.2	737.2	736.4	736.4
17.5°	733.6	732.0	728.8	726.4	723.9	723.6	723.9
20°	721.6	719.9	716.0	714.3	712.4	712.4	711.5
22.5°	709.5	707.9	704.3	703.1	700.3	700.3	700.7
25°	697.0	695.9	691.9	691.1	690.6	689.1	689.9
27.5°	680.2	679.4	676.2	675.1	673.4	673.0	673.8
30°	649.3	648.2	645.7	644.6	641.7	642.1	642.9
32.5°	610.8	609.2	606.0	604.8	602.4	601.5	602.0
35°	562.6	561.4	558.6	558.6	556.2	555.5	556.2
37.5°	513.6	514.9	513.6	514.9	513.6	513.3	513.6
40°	467.6	471.9	472.7	477.2	475.5	478.0	477.5
42.5°	423.4	430.6	433.4	437.1	436.3	437.9	439.1
45°	378.8	384.8	387.6	390.1	390.4	391.3	391.7
47.5°	336.7	341.6	341.9	344.7	344.4	344.4	345.5
50°	297.4	300.5	301.3	303.3	301.8	301.0	301.3
52.5°	260.9	264.1	263.2	264.1	262.1	261.3	261.6
55°	223.5	225.1	225.1	225.1	222.7	222.7	222.7
57.5°	185.4	185.9	185.0	185.4	185.0	182.6	182.2
60°	150.6	150.6	150.1	150.6	149.3	148.1	148.1
62.5°	117.6	118.4	119.9	118.4	117.6	118.4	117.1
65°	87.9	89.5	89.1	89.9	89.5	89.5	88.7
67.5°	66.3	66.6	67.0	67.5	67.5	67.5	67.5
70°	48.5	49.8	49.3	49.3	49.3	49.3	51.8
72.5°	32.5	34.1	33.7	34.5	34.5	35.3	34.5
75°	22.1	23.7	22.9	24.1	23.7	22.9	24.9
77.5°	14.8	15.7	16.0	16.5	16.0	15.7	16.0
80°	10.4	11.2	10.9	11.2	11.2	11.2	11.7
82.5°	6.4	7.6	7.2	7.6	7.2	7.6	7.6
85°	4.4	4.8	4.0	4.8	4.4	4.4	5.3
87.5°	2.8	2.5	2.5	2.8	2.5	2.8	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)