

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: P244567

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244567
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: LSR8B15D010 EC8B15940 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1376.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

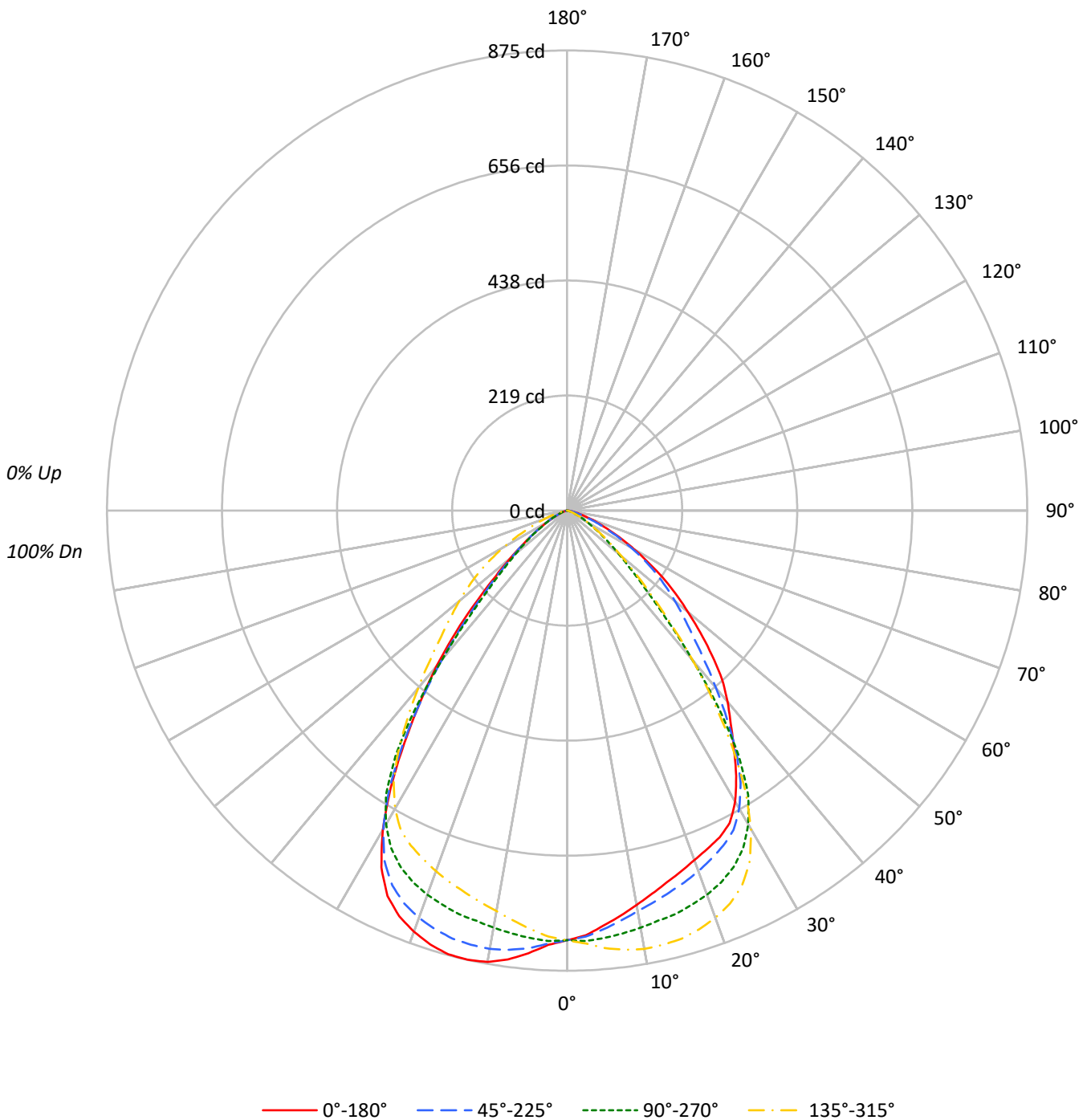
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25190	25190	25190	25190
5°	24522	25249	26150	25249
10°	23841	25216	27288	25216
15°	23365	25367	27886	25367
20°	23207	25511	27959	25511
25°	23330	25460	27508	25460
30°	22753	24526	24967	24526
35°	20810	21397	20302	21397
40°	19109	14882	15542	14882
45°	16977	9079	10505	9079
50°	14368	6064	6735	6064
55°	11903	4140	4376	4140
60°	9078	2757	2781	2757
65°	6428	1715	1569	1715
70°	4643	1154	1046	1154
75°	2943	572	477	572
80°	2060	426	355	426
85°	1840	0	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	5.7
10°-20°	225.2	16.4
20°-30°	340.9	24.8
30°-40°	341.7	24.8
40°-50°	214.6	15.6
50°-60°	114.3	8.3
60°-70°	47.0	3.4
70°-80°	12.4	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°	643.8	46.8
0°-40°	985.5	71.6
0°-60°	1314.5	95.5
0°-90°	1376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	817	817	817	817	817	
5°	792	816	845	816	792	75
15°	732	795	874	795	732	207
25°	686	748	808	748	686	314
35°	553	568	539	568	553	346
45°	389	208	241	208	389	299
55°	221	77	81	77	221	197
65°	88	24	22	24	88	91
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°	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9
2.5°	808.5	807.7	807.3	808.1	808.5	810.1	809.7	810.5	810.5	810.9	811.7
5°	792.2	791.8	792.2	792.2	793.8	795.3	795.0	796.2	796.9	798.9	799.7
7.5°	777.0	777.0	776.6	778.2	779.0	781.4	781.0	783.0	784.2	786.2	789.0
10°	761.4	761.4	761.8	763.0	763.4	767.0	767.0	769.8	771.4	773.4	777.0
12.5°	746.3	746.3	748.7	747.9	749.5	752.3	753.5	756.3	758.7	762.6	766.2
15°	731.9	731.9	732.7	734.7	735.9	739.5	741.5	744.7	747.5	751.5	756.7
17.5°	719.6	719.2	719.6	722.0	724.4	727.5	729.1	733.1	735.9	741.1	745.9
20°	707.2	708.0	708.0	710.0	711.6	715.6	717.2	721.6	724.8	729.5	735.1
22.5°	696.4	696.0	696.0	698.8	700.0	703.6	705.2	709.2	712.8	716.8	722.0
25°	685.7	684.9	686.5	686.9	687.6	691.6	692.8	695.6	699.2	702.8	708.0
27.5°	669.7	668.9	669.3	670.9	672.1	675.3	676.1	678.9	681.7	684.9	689.3
30°	639.0	638.2	637.8	640.6	641.8	644.2	645.4	650.2	651.0	654.5	657.7
32.5°	598.3	597.9	598.7	601.1	602.3	605.5	607.1	609.9	611.9	613.9	617.0
35°	552.8	552.0	552.8	555.2	555.2	558.0	559.2	560.4	560.0	560.4	559.6
37.5°	510.6	510.2	510.6	511.7	510.6	511.7	510.6	508.2	503.8	499.0	494.2
40°	474.7	475.1	472.7	474.3	469.9	469.1	464.7	458.7	449.9	440.4	426.8
42.5°	436.4	435.2	433.6	434.4	430.8	428.0	420.8	413.2	402.1	386.1	369.7
45°	389.3	388.9	388.1	387.7	385.3	382.5	376.5	367.8	355.4	339.0	319.5
47.5°	343.4	342.2	342.2	342.6	339.8	339.4	334.6	327.1	316.3	300.3	280.0
50°	299.5	299.2	300.0	301.5	299.5	298.8	295.6	290.4	280.8	267.3	248.1
52.5°	260.1	259.7	260.5	262.5	261.7	262.5	259.3	255.3	248.9	235.7	219.0
55°	221.4	221.4	221.4	223.8	223.8	223.8	222.2	219.8	213.8	204.2	188.7
57.5°	181.1	181.5	183.9	184.3	183.9	184.7	184.3	181.9	177.9	171.1	159.2
60°	147.2	147.2	148.4	149.6	149.2	149.6	149.6	148.4	144.4	138.8	129.2
62.5°	116.5	117.7	116.9	117.7	119.3	117.7	116.9	116.1	113.3	109.7	101.7
65°	88.1	89.0	89.0	89.3	88.5	89.0	87.4	86.2	84.6	80.6	75.4
67.5°	67.0	67.0	67.0	67.0	66.6	66.2	65.8	64.6	61.8	60.2	54.6
70°	51.5	49.1	49.1	49.1	49.1	49.5	48.3	46.7	45.9	43.1	39.1
72.5°	34.3	35.1	34.3	34.3	33.5	33.9	32.3	31.5	30.7	29.1	26.7
75°	24.7	22.7	23.5	23.9	22.7	23.5	21.9	20.3	20.3	19.1	17.9
77.5°	16.0	15.6	16.0	16.4	16.0	15.6	14.8	14.0	14.0	13.6	12.4
80°	11.6	11.2	11.2	11.2	10.8	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	6.0	5.2
85°	5.2	4.4	4.4	4.8	4.0	4.8	4.4	4.0	3.6	3.6	3.2
87.5°	2.4	2.8	2.4	2.8	2.4	2.4	2.8	2.4	2.4	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°	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9
2.5°	812.9	813.3	813.3	814.9	815.7	816.1	816.1	819.3	818.1	818.9	819.7
5°	801.3	803.7	804.5	804.5	808.9	810.5	812.1	815.7	816.1	818.5	821.3
7.5°	790.2	793.0	794.6	798.1	800.9	803.7	808.5	810.9	813.3	816.5	820.1
10°	779.4	782.6	785.8	788.6	793.0	796.5	799.7	805.3	808.1	812.5	817.3
12.5°	769.0	773.4	776.2	781.0	785.8	789.0	793.8	798.9	803.3	807.7	813.3
15°	759.9	765.0	768.2	773.4	778.6	783.0	788.2	794.6	797.7	802.9	808.1
17.5°	749.9	755.5	759.5	764.2	770.6	775.4	779.8	786.2	790.2	795.7	801.7
20°	739.5	745.1	749.9	754.7	761.1	765.8	771.0	777.4	781.8	787.4	792.2
22.5°	727.1	732.3	737.5	743.1	749.5	753.5	759.5	765.0	769.8	775.0	779.8
25°	711.2	717.6	721.6	726.7	731.9	736.3	742.7	748.3	752.3	757.1	761.4
27.5°	692.4	697.2	700.4	704.8	710.0	714.0	718.8	724.4	728.3	732.7	735.9
30°	660.5	664.9	667.7	670.9	676.1	679.7	683.7	688.8	691.6	694.8	697.6
32.5°	618.6	622.2	623.8	626.2	629.8	633.4	636.6	641.0	642.2	644.2	644.2
35°	558.0	558.8	558.4	559.2	560.8	562.8	565.6	568.4	570.0	570.0	568.8
37.5°	487.0	482.2	477.1	473.1	471.9	471.1	472.7	473.9	475.5	476.2	474.3
40°	413.2	402.5	390.9	380.5	373.3	370.2	369.0	369.7	369.7	372.5	372.5
42.5°	349.8	333.1	315.9	300.3	290.0	282.0	278.4	278.4	278.8	280.8	282.0
45°	297.2	276.0	256.1	238.9	224.6	214.2	209.4	208.2	207.8	208.6	211.4
47.5°	256.9	234.9	214.2	193.1	177.9	167.5	163.1	161.5	159.9	161.5	161.9
50°	225.4	202.6	180.7	159.5	143.6	134.4	128.8	126.4	126.0	126.0	126.8
52.5°	196.6	175.5	153.6	132.0	115.3	106.5	101.3	100.1	98.5	100.1	100.1
55°	169.5	148.4	126.8	106.5	92.5	83.4	78.6	77.0	76.2	77.4	77.4
57.5°	140.0	122.1	102.1	83.8	69.8	63.4	59.8	57.8	57.4	58.2	57.4
60°	114.9	99.7	82.6	65.8	55.0	48.3	45.5	44.7	43.9	44.7	44.7
62.5°	90.9	78.2	64.2	51.5	42.3	37.5	34.3	34.3	33.9	33.9	34.3
65°	67.4	57.4	47.5	36.7	29.5	25.9	23.5	23.5	23.1	23.5	23.1
67.5°	49.1	42.3	34.3	26.7	21.1	19.1	17.6	16.4	17.2	16.4	16.0
70°	35.9	30.3	24.7	20.3	16.4	14.4	13.2	12.8	12.0	12.0	12.0
72.5°	23.9	20.3	16.7	13.2	10.8	8.8	8.4	7.6	6.8	7.2	8.0
75°	16.0	13.6	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	6.0	4.8	4.4	3.2	3.2	2.8	2.8	2.8
80°	8.0	6.8	5.2	4.4	3.2	3.2	2.8	2.4	2.0	2.0	2.4
82.5°	4.8	3.6	3.6	3.2	2.0	1.6	1.2	1.6	0.8	0.8	0.8
85°	2.8	2.4	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°	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9
2.5°	821.7	821.3	822.1	822.1	824.5	824.1	825.3	825.3	824.5	824.9	826.5
5°	824.5	825.7	828.1	830.1	833.6	835.2	837.2	839.2	839.6	840.8	842.0
7.5°	824.5	828.5	831.3	834.8	839.6	842.4	846.8	850.4	852.0	854.0	856.4
10°	822.9	826.9	832.0	836.0	842.0	846.4	850.8	856.4	858.8	862.0	865.2
12.5°	819.7	824.1	829.6	834.8	841.6	845.6	851.2	856.4	860.0	864.4	867.9
15°	814.9	820.1	825.3	830.4	837.6	842.4	847.6	853.6	857.2	862.0	865.2
17.5°	807.3	812.9	817.7	822.5	829.3	834.8	839.6	845.2	848.8	852.8	857.2
20°	798.1	803.3	808.5	812.5	819.3	824.1	829.3	834.4	837.2	838.0	844.8
22.5°	786.6	790.2	794.1	800.5	804.5	808.9	813.7	818.5	821.3	825.7	828.1
25°	767.4	771.0	775.4	778.2	783.0	786.6	791.4	796.5	798.1	801.3	803.7
27.5°	740.7	742.7	744.7	747.1	749.9	751.9	754.7	757.1	758.7	760.2	761.8
30°	698.4	698.4	698.4	696.8	698.0	699.2	699.6	699.2	699.2	698.8	698.8
32.5°	642.6	639.4	635.8	632.6	631.4	629.8	629.0	627.8	625.8	624.6	625.0
35°	567.2	560.0	555.6	551.6	548.5	546.1	544.9	543.7	543.3	541.7	540.1
37.5°	473.1	467.9	464.7	462.3	459.5	457.1	457.5	457.9	459.1	458.3	458.7
40°	373.3	372.1	373.3	370.6	369.7	370.6	372.5	375.3	376.9	378.5	381.3
42.5°	284.0	286.0	288.8	288.8	290.0	291.6	294.0	298.4	300.7	303.5	306.7
45°	213.8	216.2	219.8	221.0	221.8	223.8	226.6	230.1	231.7	234.1	236.9
47.5°	164.7	166.3	168.3	170.3	172.3	173.1	175.9	175.9	177.9	179.5	180.3
50°	128.4	130.0	131.6	132.8	133.6	134.8	135.6	136.8	137.2	138.0	138.4
52.5°	100.5	102.5	102.5	103.3	104.5	105.7	105.3	105.7	106.1	106.1	107.3
55°	78.6	78.6	79.8	79.8	80.6	80.2	80.6	80.6	80.6	80.6	81.0
57.5°	58.6	59.0	60.2	59.4	59.0	59.8	59.0	59.8	59.4	60.2	59.0
60°	45.1	45.1	45.5	45.5	45.9	45.9	45.9	45.5	45.5	45.1	45.1
62.5°	33.9	34.3	34.7	34.3	34.3	34.3	33.9	33.9	33.5	33.1	33.1
65°	22.7	22.3	23.1	22.3	22.7	22.7	22.3	22.7	21.5	21.9	21.5
67.5°	16.4	16.0	15.6	16.0	15.6	15.2	15.2	15.6	16.0	14.8	14.8
70°	10.8	11.2	10.8	11.2	11.6	11.6	11.2	10.8	11.2	10.4	10.8
72.5°	6.8	6.8	6.8	6.8	6.8	7.2	7.2	7.2	6.4	6.4	6.0
75°	3.2	4.4	3.6	3.2	4.4	4.4	4.0	4.0	3.6	3.6	3.6
77.5°	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.0	2.4	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°	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9
2.5°	826.1	825.7	826.1	826.5	826.1	825.7	826.1	826.5	824.9	824.5	825.3
5°	843.6	843.6	844.4	844.8	844.4	843.6	843.6	842.0	840.8	839.6	839.2
7.5°	858.8	859.6	860.4	860.8	860.4	859.6	858.8	856.4	854.0	852.0	850.4
10°	867.9	869.1	870.7	871.5	870.7	869.1	867.9	865.2	862.0	858.8	856.4
12.5°	871.9	873.1	875.1	874.7	875.1	873.1	871.9	867.9	864.4	860.0	856.4
15°	869.1	870.7	872.7	873.5	872.7	870.7	869.1	865.2	862.0	857.2	853.6
17.5°	860.4	862.8	864.0	865.2	864.0	862.8	860.4	857.2	852.8	848.8	845.2
20°	848.4	850.0	851.6	852.0	851.6	850.0	848.4	844.8	838.0	837.2	834.4
22.5°	831.3	832.5	836.0	834.8	836.0	832.5	831.3	828.1	825.7	821.3	818.5
25°	806.5	807.7	808.1	808.5	808.1	807.7	806.5	803.7	801.3	798.1	796.5
27.5°	763.8	763.8	764.6	765.0	764.6	763.8	763.8	761.8	760.2	758.7	757.1
30°	699.2	699.2	699.2	701.2	699.2	699.2	699.2	698.8	698.8	699.2	699.2
32.5°	624.6	623.8	623.0	623.8	623.0	623.8	624.6	625.0	624.6	625.8	627.8
35°	540.1	539.7	540.9	539.3	540.9	539.7	540.1	540.1	541.7	543.3	543.7
37.5°	459.1	458.3	459.9	458.3	459.9	458.3	459.1	458.7	458.3	459.1	457.9
40°	382.1	382.9	382.9	386.1	382.9	382.9	382.1	381.3	378.5	376.9	375.3
42.5°	308.3	310.7	309.9	312.3	309.9	310.7	308.3	306.7	303.5	300.7	298.4
45°	238.5	240.1	240.1	240.9	240.1	240.1	238.5	236.9	234.1	231.7	230.1
47.5°	183.1	183.1	183.1	183.5	183.1	183.1	183.1	180.3	179.5	177.9	175.9
50°	139.2	139.6	140.0	140.4	140.0	139.6	139.2	138.4	138.0	137.2	136.8
52.5°	106.9	107.3	106.5	107.3	106.5	107.3	106.9	107.3	106.1	106.1	105.7
55°	81.0	80.6	81.0	81.4	81.0	80.6	81.0	81.0	80.6	80.6	80.6
57.5°	59.4	58.6	58.6	58.6	58.6	58.6	59.4	59.0	60.2	59.4	59.8
60°	44.3	44.7	44.7	45.1	44.7	44.7	44.3	45.1	45.1	45.5	45.5
62.5°	32.7	33.9	33.1	33.9	33.1	33.9	32.7	33.1	33.1	33.5	33.9
65°	21.1	21.1	21.1	21.5	21.1	21.1	21.1	21.5	21.9	21.5	22.7
67.5°	14.4	14.8	15.6	15.2	15.6	14.8	14.4	14.8	14.8	16.0	15.6
70°	11.6	10.4	10.4	11.6	10.4	10.4	11.6	10.8	10.4	11.2	10.8
72.5°	6.8	6.0	6.8	6.8	6.8	6.0	6.8	6.0	6.4	6.4	7.2
75°	3.6	3.2	2.8	4.0	2.8	3.2	3.6	3.6	3.6	3.6	4.0
77.5°	2.4	2.0	2.8	2.8	2.8	2.0	2.4	2.0	2.4	2.0	2.4
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°	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9
2.5°	825.3	824.1	824.5	822.1	822.1	821.3	821.7	819.7	818.9	818.1	819.3
5°	837.2	835.2	833.6	830.1	828.1	825.7	824.5	821.3	818.5	816.1	815.7
7.5°	846.8	842.4	839.6	834.8	831.3	828.5	824.5	820.1	816.5	813.3	810.9
10°	850.8	846.4	842.0	836.0	832.0	826.9	822.9	817.3	812.5	808.1	805.3
12.5°	851.2	845.6	841.6	834.8	829.6	824.1	819.7	813.3	807.7	803.3	798.9
15°	847.6	842.4	837.6	830.4	825.3	820.1	814.9	808.1	802.9	797.7	794.6
17.5°	839.6	834.8	829.3	822.5	817.7	812.9	807.3	801.7	795.7	790.2	786.2
20°	829.3	824.1	819.3	812.5	808.5	803.3	798.1	792.2	787.4	781.8	777.4
22.5°	813.7	808.9	804.5	800.5	794.1	790.2	786.6	779.8	775.0	769.8	765.0
25°	791.4	786.6	783.0	778.2	775.4	771.0	767.4	761.4	757.1	752.3	748.3
27.5°	754.7	751.9	749.9	747.1	744.7	742.7	740.7	735.9	732.7	728.3	724.4
30°	699.6	699.2	698.0	696.8	698.4	698.4	698.4	697.6	694.8	691.6	688.8
32.5°	629.0	629.8	631.4	632.6	635.8	639.4	642.6	644.2	644.2	642.2	641.0
35°	544.9	546.1	548.5	551.6	555.6	560.0	567.2	568.8	570.0	570.0	568.4
37.5°	457.5	457.1	459.5	462.3	464.7	467.9	473.1	474.3	476.2	475.5	473.9
40°	372.5	370.6	369.7	370.6	373.3	372.1	373.3	372.5	372.5	369.7	369.7
42.5°	294.0	291.6	290.0	288.8	288.8	286.0	284.0	282.0	280.8	278.8	278.4
45°	226.6	223.8	221.8	221.0	219.8	216.2	213.8	211.4	208.6	207.8	208.2
47.5°	175.9	173.1	172.3	170.3	168.3	166.3	164.7	161.9	161.5	159.9	161.5
50°	135.6	134.8	133.6	132.8	131.6	130.0	128.4	126.8	126.0	126.0	126.4
52.5°	105.3	105.7	104.5	103.3	102.5	102.5	100.5	100.1	100.1	98.5	100.1
55°	80.6	80.2	80.6	79.8	79.8	78.6	78.6	77.4	77.4	76.2	77.0
57.5°	59.0	59.8	59.0	59.4	60.2	59.0	58.6	57.4	58.2	57.4	57.8
60°	45.9	45.9	45.9	45.5	45.5	45.1	45.1	44.7	44.7	43.9	44.7
62.5°	33.9	34.3	34.3	34.3	34.7	34.3	33.9	34.3	33.9	33.9	34.3
65°	22.3	22.7	22.7	22.3	23.1	22.3	22.7	23.1	23.5	23.1	23.5
67.5°	15.2	15.2	15.6	16.0	15.6	16.0	16.4	16.0	16.4	17.2	16.4
70°	11.2	11.6	11.6	11.2	10.8	11.2	10.8	12.0	12.0	12.0	12.8
72.5°	7.2	7.2	6.8	6.8	6.8	6.8	6.8	8.0	7.2	6.8	7.6
75°	4.0	4.4	4.4	3.2	3.6	4.4	3.2	3.6	4.8	4.0	4.8
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.2	2.8	2.8	2.8	3.2
80°	2.0	1.6	1.6	1.2	1.6	1.6	1.6	2.4	2.0	2.0	2.4
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°	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9	816.9
2.5°	816.1	816.1	815.7	814.9	813.3	813.3	812.9	811.7	810.9	810.5	810.5
5°	812.1	810.5	808.9	804.5	804.5	803.7	801.3	799.7	798.9	796.9	796.2
7.5°	808.5	803.7	800.9	798.1	794.6	793.0	790.2	789.0	786.2	784.2	783.0
10°	799.7	796.5	793.0	788.6	785.8	782.6	779.4	777.0	773.4	771.4	769.8
12.5°	793.8	789.0	785.8	781.0	776.2	773.4	769.0	766.2	762.6	758.7	756.3
15°	788.2	783.0	778.6	773.4	768.2	765.0	759.9	756.7	751.5	747.5	744.7
17.5°	779.8	775.4	770.6	764.2	759.5	755.5	749.9	745.9	741.1	735.9	733.1
20°	771.0	765.8	761.1	754.7	749.9	745.1	739.5	735.1	729.5	724.8	721.6
22.5°	759.5	753.5	749.5	743.1	737.5	732.3	727.1	722.0	716.8	712.8	709.2
25°	742.7	736.3	731.9	726.7	721.6	717.6	711.2	708.0	702.8	699.2	695.6
27.5°	718.8	714.0	710.0	704.8	700.4	697.2	692.4	689.3	684.9	681.7	678.9
30°	683.7	679.7	676.1	670.9	667.7	664.9	660.5	657.7	654.5	651.0	650.2
32.5°	636.6	633.4	629.8	626.2	623.8	622.2	618.6	617.0	613.9	611.9	609.9
35°	565.6	562.8	560.8	559.2	558.4	558.8	558.0	559.6	560.4	560.0	560.4
37.5°	472.7	471.1	471.9	473.1	477.1	482.2	487.0	494.2	499.0	503.8	508.2
40°	369.0	370.2	373.3	380.5	390.9	402.5	413.2	426.8	440.4	449.9	458.7
42.5°	278.4	282.0	290.0	300.3	315.9	333.1	349.8	369.7	386.1	402.1	413.2
45°	209.4	214.2	224.6	238.9	256.1	276.0	297.2	319.5	339.0	355.4	367.8
47.5°	163.1	167.5	177.9	193.1	214.2	234.9	256.9	280.0	300.3	316.3	327.1
50°	128.8	134.4	143.6	159.5	180.7	202.6	225.4	248.1	267.3	280.8	290.4
52.5°	101.3	106.5	115.3	132.0	153.6	175.5	196.6	219.0	235.7	248.9	255.3
55°	78.6	83.4	92.5	106.5	126.8	148.4	169.5	188.7	204.2	213.8	219.8
57.5°	59.8	63.4	69.8	83.8	102.1	122.1	140.0	159.2	171.1	177.9	181.9
60°	45.5	48.3	55.0	65.8	82.6	99.7	114.9	129.2	138.8	144.4	148.4
62.5°	34.3	37.5	42.3	51.5	64.2	78.2	90.9	101.7	109.7	113.3	116.1
65°	23.5	25.9	29.5	36.7	47.5	57.4	67.4	75.4	80.6	84.6	86.2
67.5°	17.6	19.1	21.1	26.7	34.3	42.3	49.1	54.6	60.2	61.8	64.6
70°	13.2	14.4	16.4	20.3	24.7	30.3	35.9	39.1	43.1	45.9	46.7
72.5°	8.4	8.8	10.8	13.2	16.7	20.3	23.9	26.7	29.1	30.7	31.5
75°	4.8	7.2	7.2	9.6	12.0	13.6	16.0	17.9	19.1	20.3	20.3
77.5°	3.2	4.4	4.8	6.0	7.2	9.2	11.2	12.4	13.6	14.0	14.0
80°	2.8	3.2	3.2	4.4	5.2	6.8	8.0	8.4	9.2	9.6	10.4
82.5°	1.2	1.6	2.0	3.2	3.6	3.6	4.8	5.2	6.0	6.4	6.4
85°	0.4	0.8	0.8	1.2	2.0	2.4	2.8	3.2	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	2.4	2.4
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):

	330°	335°	340°	345°	350°	355°	360°
0°	816.9	816.9	816.9	816.9	816.9	816.9	816.9
2.5°	809.7	810.1	808.5	808.1	807.3	807.7	808.5
5°	795.0	795.3	793.8	792.2	792.2	791.8	792.2
7.5°	781.0	781.4	779.0	778.2	776.6	777.0	777.0
10°	767.0	767.0	763.4	763.0	761.8	761.4	761.4
12.5°	753.5	752.3	749.5	747.9	748.7	746.3	746.3
15°	741.5	739.5	735.9	734.7	732.7	731.9	731.9
17.5°	729.1	727.5	724.4	722.0	719.6	719.2	719.6
20°	717.2	715.6	711.6	710.0	708.0	708.0	707.2
22.5°	705.2	703.6	700.0	698.8	696.0	696.0	696.4
25°	692.8	691.6	687.6	686.9	686.5	684.9	685.7
27.5°	676.1	675.3	672.1	670.9	669.3	668.9	669.7
30°	645.4	644.2	641.8	640.6	637.8	638.2	639.0
32.5°	607.1	605.5	602.3	601.1	598.7	597.9	598.3
35°	559.2	558.0	555.2	555.2	552.8	552.0	552.8
37.5°	510.6	511.7	510.6	511.7	510.6	510.2	510.6
40°	464.7	469.1	469.9	474.3	472.7	475.1	474.7
42.5°	420.8	428.0	430.8	434.4	433.6	435.2	436.4
45°	376.5	382.5	385.3	387.7	388.1	388.9	389.3
47.5°	334.6	339.4	339.8	342.6	342.2	342.2	343.4
50°	295.6	298.8	299.5	301.5	300.0	299.2	299.5
52.5°	259.3	262.5	261.7	262.5	260.5	259.7	260.1
55°	222.2	223.8	223.8	223.8	221.4	221.4	221.4
57.5°	184.3	184.7	183.9	184.3	183.9	181.5	181.1
60°	149.6	149.6	149.2	149.6	148.4	147.2	147.2
62.5°	116.9	117.7	119.3	117.7	116.9	117.7	116.5
65°	87.4	89.0	88.5	89.3	89.0	89.0	88.1
67.5°	65.8	66.2	66.6	67.0	67.0	67.0	67.0
70°	48.3	49.5	49.1	49.1	49.1	49.1	51.5
72.5°	32.3	33.9	33.5	34.3	34.3	35.1	34.3
75°	21.9	23.5	22.7	23.9	23.5	22.7	24.7
77.5°	14.8	15.6	16.0	16.4	16.0	15.6	16.0
80°	10.4	11.2	10.8	11.2	11.2	11.2	11.6
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	5.2
87.5°	2.8	2.4	2.4	2.8	2.4	2.8	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)