

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: **LSR8B20D010 EC8B209730 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: LSR8B20D010 EC8B209730 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1235.0 lumens
Efficiency: N/A
Efficacy: 58.0 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

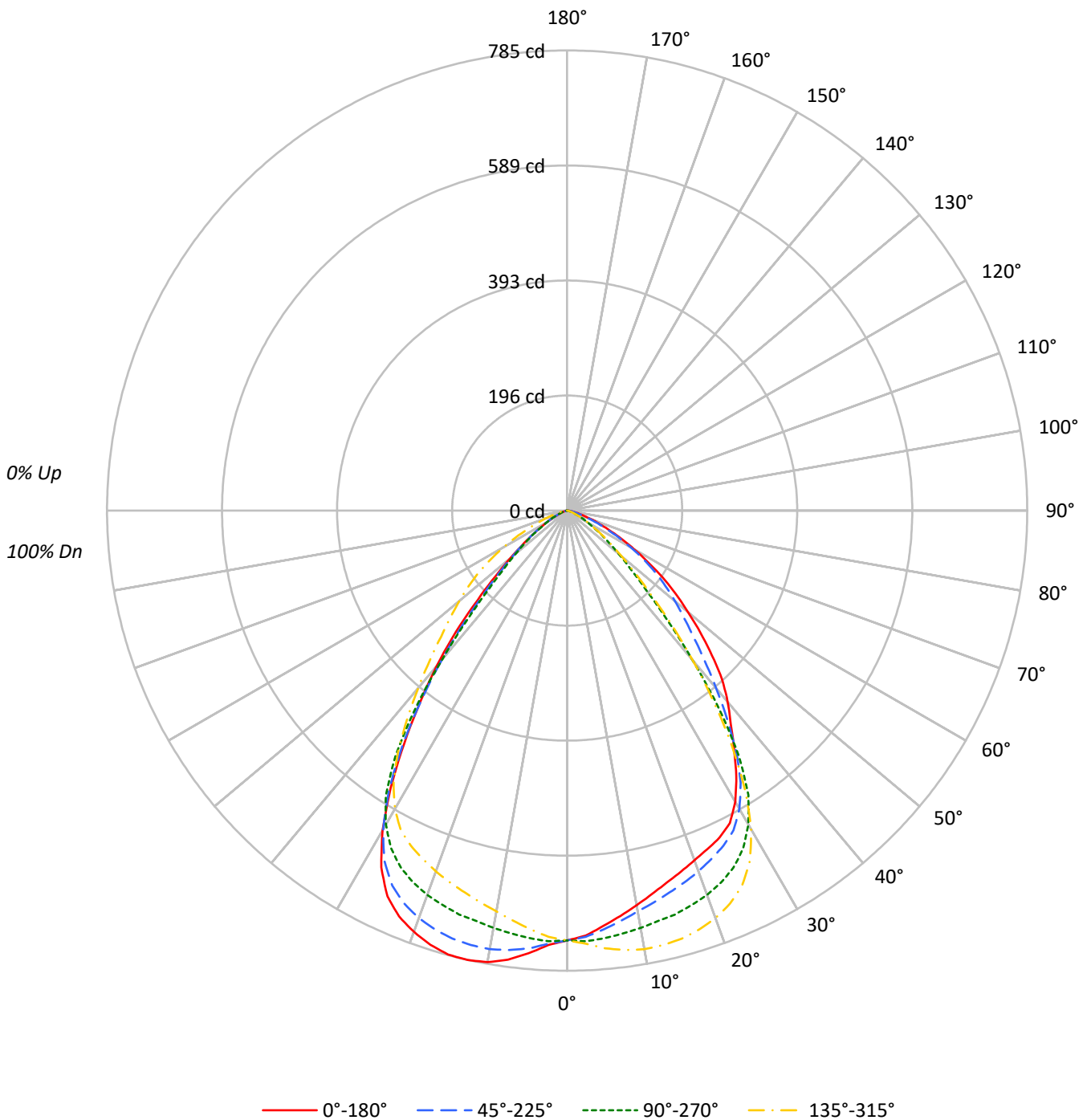
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	69.8	5.7
10°-20°	202.1	16.4
20°-30°	306.0	24.8
30°-40°	306.7	24.8
40°-50°	192.6	15.6
50°-60°	102.6	8.3
60°-70°	42.2	3.4
70°-80°	11.2	0.9
80°-90°	1.9	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°	577.9	46.8
0°-40°	884.6	71.6
0°-60°	1179.8	95.5
0°-90°	1235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1235.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	733	733	733	733	733	
5°	711	732	758	732	711	67
15°	657	713	784	713	657	186
25°	615	672	726	672	615	282
35°	496	510	484	510	496	311
45°	349	187	216	187	349	269
55°	199	69	73	69	199	177
65°	79	21	19	21	79	82
75°	22	4	4	4	22	25
85°	5	0	0	0	5	5
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°	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	725.7	724.9	724.6	725.3	725.7	727.1	726.7	727.4	727.4	727.8	728.5
5°	711.0	710.6	711.0	711.0	712.4	713.8	713.5	714.6	715.3	717.1	717.8
7.5°	697.4	697.4	697.0	698.4	699.2	701.3	701.0	702.8	703.8	705.6	708.1
10°	683.4	683.4	683.8	684.8	685.2	688.4	688.4	690.9	692.4	694.2	697.4
12.5°	669.8	669.8	672.0	671.2	672.7	675.2	676.3	678.8	680.9	684.5	687.7
15°	656.9	656.9	657.6	659.4	660.5	663.7	665.5	668.4	670.9	674.5	679.1
17.5°	645.8	645.5	645.8	648.0	650.1	653.0	654.4	658.0	660.5	665.2	669.5
20°	634.7	635.5	635.5	637.2	638.7	642.2	643.7	647.6	650.5	654.8	659.8
22.5°	625.1	624.7	624.7	627.2	628.3	631.5	632.9	636.5	639.7	643.3	648.0
25°	615.4	614.7	616.1	616.5	617.2	620.8	621.8	624.3	627.6	630.8	635.5
27.5°	601.1	600.4	600.7	602.2	603.2	606.1	606.8	609.3	611.8	614.7	618.6
30°	573.5	572.8	572.4	575.0	576.0	578.2	579.2	583.5	584.2	587.5	590.3
32.5°	537.0	536.6	537.4	539.5	540.6	543.4	544.9	547.4	549.2	551.0	553.8
35°	496.2	495.5	496.2	498.3	498.3	500.8	501.9	503.0	502.6	503.0	502.3
37.5°	458.2	457.9	458.2	459.3	458.2	459.3	458.2	456.1	452.2	447.9	443.6
40°	426.0	426.4	424.2	425.7	421.7	421.0	417.1	411.7	403.8	395.2	383.1
42.5°	391.7	390.6	389.2	389.9	386.6	384.1	377.7	370.9	360.9	346.5	331.9
45°	349.4	349.1	348.3	348.0	345.8	343.3	337.9	330.1	319.0	304.3	286.8
47.5°	308.2	307.2	307.2	307.5	305.0	304.7	300.4	293.6	283.9	269.6	251.3
50°	268.8	268.5	269.2	270.6	268.8	268.1	265.3	260.6	252.0	239.9	222.7
52.5°	233.4	233.1	233.8	235.6	234.8	235.6	232.7	229.1	223.4	211.6	196.5
55°	198.7	198.7	198.7	200.8	200.8	200.8	199.4	197.3	191.9	183.3	169.3
57.5°	162.5	162.9	165.0	165.4	165.0	165.8	165.4	163.2	159.7	153.6	142.8
60°	132.1	132.1	133.2	134.3	133.9	134.3	134.3	133.2	129.6	124.6	116.0
62.5°	104.5	105.6	104.9	105.6	107.0	105.6	104.9	104.2	101.7	98.4	91.3
65°	79.1	79.8	79.8	80.2	79.5	79.8	78.4	77.3	75.9	72.3	67.7
67.5°	60.2	60.2	60.2	60.2	59.8	59.4	59.1	58.0	55.5	54.1	49.0
70°	46.2	44.0	44.0	44.0	44.0	44.4	43.3	41.9	41.2	38.7	35.1
72.5°	30.8	31.5	30.8	30.8	30.1	30.4	29.0	28.3	27.6	26.1	24.0
75°	22.2	20.4	21.1	21.5	20.4	21.1	19.7	18.3	18.3	17.2	16.1
77.5°	14.3	14.0	14.3	14.7	14.3	14.0	13.2	12.5	12.5	12.2	11.1
80°	10.4	10.0	10.0	10.0	9.7	10.0	9.3	9.3	8.6	8.2	7.5
82.5°	6.8	6.8	6.4	6.8	6.4	6.8	5.7	5.7	5.7	5.4	4.7
85°	4.7	3.9	3.9	4.3	3.6	4.3	3.9	3.6	3.2	3.2	2.9
87.5°	2.2	2.5	2.2	2.5	2.2	2.2	2.5	2.2	2.2	1.4	1.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	729.6	730.0	730.0	731.4	732.1	732.5	732.5	735.3	734.3	735.0	735.7
5°	719.2	721.4	722.1	722.1	726.0	727.4	728.9	732.1	732.5	734.6	737.1
7.5°	709.2	711.7	713.1	716.4	718.9	721.4	725.7	727.8	730.0	732.8	736.0
10°	699.5	702.4	705.3	707.8	711.7	714.9	717.8	722.8	725.3	729.2	733.5
12.5°	690.2	694.2	696.7	701.0	705.3	708.1	712.4	717.1	721.0	724.9	730.0
15°	682.0	686.6	689.5	694.2	698.8	702.8	707.4	713.1	716.0	720.7	725.3
17.5°	673.0	678.1	681.6	685.9	691.7	695.9	699.9	705.6	709.2	714.2	719.6
20°	663.7	668.7	673.0	677.3	683.1	687.4	692.0	697.7	701.7	706.7	711.0
22.5°	652.6	657.3	661.9	666.9	672.7	676.3	681.6	686.6	690.9	695.6	699.9
25°	638.3	644.0	647.6	652.3	656.9	660.9	666.6	671.6	675.2	679.5	683.4
27.5°	621.5	625.8	628.6	632.6	637.2	640.8	645.1	650.1	653.7	657.6	660.5
30°	592.8	596.8	599.3	602.2	606.8	610.0	613.6	618.3	620.8	623.6	626.1
32.5°	555.2	558.5	559.9	562.1	565.3	568.5	571.4	575.3	576.4	578.2	578.2
35°	500.8	501.6	501.2	501.9	503.4	505.1	507.6	510.1	511.6	511.6	510.5
37.5°	437.1	432.8	428.2	424.6	423.5	422.8	424.2	425.3	426.7	427.4	425.7
40°	370.9	361.2	350.8	341.5	335.1	332.2	331.2	331.9	331.9	334.4	334.4
42.5°	314.0	298.9	283.5	269.6	260.3	253.1	249.9	249.9	250.2	252.0	253.1
45°	266.7	247.7	229.8	214.4	201.6	192.2	188.0	186.9	186.5	187.2	189.7
47.5°	230.6	210.9	192.2	173.3	159.7	150.4	146.4	145.0	143.6	145.0	145.4
50°	202.3	181.9	162.2	143.2	128.9	120.6	115.6	113.5	113.1	113.1	113.8
52.5°	176.5	157.5	137.8	118.5	103.5	95.6	90.9	89.9	88.4	89.9	89.9
55°	152.1	133.2	113.8	95.6	83.0	74.8	70.5	69.1	68.4	69.4	69.4
57.5°	125.7	109.5	91.7	75.2	62.7	56.9	53.7	51.9	51.5	52.3	51.5
60°	103.1	89.5	74.1	59.1	49.4	43.3	40.8	40.1	39.4	40.1	40.1
62.5°	81.6	70.2	57.6	46.2	37.9	33.7	30.8	30.8	30.4	30.4	30.8
65°	60.5	51.5	42.6	32.9	26.5	23.3	21.1	21.1	20.8	21.1	20.8
67.5°	44.0	37.9	30.8	24.0	19.0	17.2	15.8	14.7	15.4	14.7	14.3
70°	32.2	27.2	22.2	18.3	14.7	12.9	11.8	11.4	10.7	10.7	10.7
72.5°	21.5	18.3	15.0	11.8	9.7	7.9	7.5	6.8	6.1	6.4	7.2
75°	14.3	12.2	10.7	8.6	6.4	6.4	4.3	4.3	3.6	4.3	3.2
77.5°	10.0	8.2	6.4	5.4	4.3	3.9	2.9	2.9	2.5	2.5	2.5
80°	7.2	6.1	4.7	3.9	2.9	2.9	2.5	2.2	1.8	1.8	2.2
82.5°	4.3	3.2	3.2	2.9	1.8	1.4	1.1	1.4	0.7	0.7	0.7
85°	2.5	2.2	1.8	1.1	0.7	0.7	0.4	0.0	0.4	0.4	0.0
87.5°	1.4	0.7	0.7	0.4	0.0	0.4	0.4	0.0	0.0	0.0	0.7
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°	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	737.5	737.1	737.8	737.8	740.0	739.6	740.7	740.7	740.0	740.3	741.8
5°	740.0	741.1	743.2	745.0	748.2	749.7	751.4	753.2	753.6	754.7	755.7
7.5°	740.0	743.6	746.1	749.3	753.6	756.1	760.0	763.3	764.7	766.5	768.6
10°	738.5	742.1	746.8	750.4	755.7	759.7	763.6	768.6	770.8	773.6	776.5
12.5°	735.7	739.6	744.6	749.3	755.4	759.0	764.0	768.6	771.8	775.8	779.0
15°	731.4	736.0	740.7	745.4	751.8	756.1	760.8	766.1	769.3	773.6	776.5
17.5°	724.6	729.6	733.9	738.2	744.3	749.3	753.6	758.6	761.8	765.4	769.3
20°	716.4	721.0	725.7	729.2	735.3	739.6	744.3	748.9	751.4	752.2	758.2
22.5°	706.0	709.2	712.8	718.5	722.1	726.0	730.3	734.6	737.1	741.1	743.2
25°	688.8	692.0	695.9	698.4	702.8	706.0	710.3	714.9	716.4	719.2	721.4
27.5°	664.8	666.6	668.4	670.5	673.0	674.8	677.3	679.5	680.9	682.3	683.8
30°	626.8	626.8	626.8	625.4	626.5	627.6	627.9	627.6	627.6	627.2	627.2
32.5°	576.7	573.9	570.6	567.8	566.7	565.3	564.6	563.5	561.7	560.6	561.0
35°	509.1	502.6	498.7	495.1	492.3	490.1	489.0	488.0	487.6	486.2	484.7
37.5°	424.6	419.9	417.1	414.9	412.4	410.3	410.6	411.0	412.0	411.3	411.7
40°	335.1	334.0	335.1	332.6	331.9	332.6	334.4	336.9	338.3	339.7	342.2
42.5°	254.9	256.7	259.2	259.2	260.3	261.7	263.8	267.8	269.9	272.4	275.3
45°	191.9	194.0	197.3	198.3	199.0	200.8	203.4	206.6	208.0	210.1	212.6
47.5°	147.9	149.3	151.1	152.9	154.6	155.4	157.9	157.9	159.7	161.1	161.8
50°	115.3	116.7	118.1	119.2	119.9	121.0	121.7	122.8	123.1	123.9	124.2
52.5°	90.2	92.0	92.0	92.7	93.8	94.9	94.5	94.9	95.2	95.2	96.3
55°	70.5	70.5	71.6	71.6	72.3	72.0	72.3	72.3	72.3	72.3	72.7
57.5°	52.6	53.0	54.1	53.3	53.0	53.7	53.0	53.7	53.3	54.1	53.0
60°	40.4	40.4	40.8	40.8	41.2	41.2	41.2	40.8	40.8	40.4	40.4
62.5°	30.4	30.8	31.2	30.8	30.8	30.8	30.4	30.4	30.1	29.7	29.7
65°	20.4	20.1	20.8	20.1	20.4	20.4	20.1	20.4	19.3	19.7	19.3
67.5°	14.7	14.3	14.0	14.3	14.0	13.6	13.6	14.0	14.3	13.2	13.2
70°	9.7	10.0	9.7	10.0	10.4	10.4	10.0	9.7	10.0	9.3	9.7
72.5°	6.1	6.1	6.1	6.1	6.1	6.4	6.4	6.4	5.7	5.7	5.4
75°	2.9	3.9	3.2	2.9	3.9	3.9	3.6	3.6	3.2	3.2	3.2
77.5°	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.8	2.2	1.8
80°	1.4	1.4	1.4	1.1	1.4	1.4	1.8	1.4	1.4	1.1	1.8
82.5°	0.7	0.7	0.7	0.0	0.4	0.7	0.7	0.4	0.7	0.7	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°	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	741.4	741.1	741.4	741.8	741.4	741.1	741.4	741.8	740.3	740.0	740.7
5°	757.2	757.2	757.9	758.2	757.9	757.2	757.2	755.7	754.7	753.6	753.2
7.5°	770.8	771.5	772.2	772.6	772.2	771.5	770.8	768.6	766.5	764.7	763.3
10°	779.0	780.1	781.5	782.2	781.5	780.1	779.0	776.5	773.6	770.8	768.6
12.5°	782.6	783.7	785.4	785.1	785.4	783.7	782.6	779.0	775.8	771.8	768.6
15°	780.1	781.5	783.3	784.0	783.3	781.5	780.1	776.5	773.6	769.3	766.1
17.5°	772.2	774.4	775.4	776.5	775.4	774.4	772.2	769.3	765.4	761.8	758.6
20°	761.5	762.9	764.3	764.7	764.3	762.9	761.5	758.2	752.2	751.4	748.9
22.5°	746.1	747.1	750.4	749.3	750.4	747.1	746.1	743.2	741.1	737.1	734.6
25°	723.9	724.9	725.3	725.7	725.3	724.9	723.9	721.4	719.2	716.4	714.9
27.5°	685.6	685.6	686.3	686.6	686.3	685.6	685.6	683.8	682.3	680.9	679.5
30°	627.6	627.6	627.6	629.4	627.6	627.6	627.6	627.2	627.2	627.6	627.6
32.5°	560.6	559.9	559.2	559.9	559.2	559.9	560.6	561.0	560.6	561.7	563.5
35°	484.7	484.4	485.4	484.0	485.4	484.4	484.7	484.7	486.2	487.6	488.0
37.5°	412.0	411.3	412.8	411.3	412.8	411.3	412.0	411.7	411.3	412.0	411.0
40°	343.0	343.7	343.7	346.5	343.7	343.7	343.0	342.2	339.7	338.3	336.9
42.5°	276.7	278.9	278.2	280.3	278.2	278.9	276.7	275.3	272.4	269.9	267.8
45°	214.1	215.5	215.5	216.2	215.5	215.5	214.1	212.6	210.1	208.0	206.6
47.5°	164.3	164.3	164.3	164.7	164.3	164.3	164.3	161.8	161.1	159.7	157.9
50°	124.9	125.3	125.7	126.0	125.7	125.3	124.9	124.2	123.9	123.1	122.8
52.5°	95.9	96.3	95.6	96.3	95.6	96.3	95.9	96.3	95.2	95.2	94.9
55°	72.7	72.3	72.7	73.0	72.7	72.3	72.7	72.7	72.3	72.3	72.3
57.5°	53.3	52.6	52.6	52.6	52.6	52.6	53.3	53.0	54.1	53.3	53.7
60°	39.7	40.1	40.1	40.4	40.1	40.1	39.7	40.4	40.4	40.8	40.8
62.5°	29.4	30.4	29.7	30.4	29.7	30.4	29.4	29.7	29.7	30.1	30.4
65°	19.0	19.0	19.0	19.3	19.0	19.0	19.0	19.3	19.7	19.3	20.4
67.5°	12.9	13.2	14.0	13.6	14.0	13.2	12.9	13.2	13.2	14.3	14.0
70°	10.4	9.3	9.3	10.4	9.3	9.3	10.4	9.7	9.3	10.0	9.7
72.5°	6.1	5.4	6.1	6.1	6.1	5.4	6.1	5.4	5.7	5.7	6.4
75°	3.2	2.9	2.5	3.6	2.5	2.9	3.2	3.2	3.2	3.2	3.6
77.5°	2.2	1.8	2.5	2.5	2.5	1.8	2.2	1.8	2.2	1.8	2.2
80°	1.1	1.4	1.1	1.8	1.1	1.4	1.1	1.8	1.1	1.4	1.4
82.5°	0.4	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.7	0.7	0.4
85°	0.0	0.7	0.4	0.4	0.4	0.7	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°	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	740.7	739.6	740.0	737.8	737.8	737.1	737.5	735.7	735.0	734.3	735.3
5°	751.4	749.7	748.2	745.0	743.2	741.1	740.0	737.1	734.6	732.5	732.1
7.5°	760.0	756.1	753.6	749.3	746.1	743.6	740.0	736.0	732.8	730.0	727.8
10°	763.6	759.7	755.7	750.4	746.8	742.1	738.5	733.5	729.2	725.3	722.8
12.5°	764.0	759.0	755.4	749.3	744.6	739.6	735.7	730.0	724.9	721.0	717.1
15°	760.8	756.1	751.8	745.4	740.7	736.0	731.4	725.3	720.7	716.0	713.1
17.5°	753.6	749.3	744.3	738.2	733.9	729.6	724.6	719.6	714.2	709.2	705.6
20°	744.3	739.6	735.3	729.2	725.7	721.0	716.4	711.0	706.7	701.7	697.7
22.5°	730.3	726.0	722.1	718.5	712.8	709.2	706.0	699.9	695.6	690.9	686.6
25°	710.3	706.0	702.8	698.4	695.9	692.0	688.8	683.4	679.5	675.2	671.6
27.5°	677.3	674.8	673.0	670.5	668.4	666.6	664.8	660.5	657.6	653.7	650.1
30°	627.9	627.6	626.5	625.4	626.8	626.8	626.8	626.1	623.6	620.8	618.3
32.5°	564.6	565.3	566.7	567.8	570.6	573.9	576.7	578.2	578.2	576.4	575.3
35°	489.0	490.1	492.3	495.1	498.7	502.6	509.1	510.5	511.6	511.6	510.1
37.5°	410.6	410.3	412.4	414.9	417.1	419.9	424.6	425.7	427.4	426.7	425.3
40°	334.4	332.6	331.9	332.6	335.1	334.0	335.1	334.4	334.4	331.9	331.9
42.5°	263.8	261.7	260.3	259.2	259.2	256.7	254.9	253.1	252.0	250.2	249.9
45°	203.4	200.8	199.0	198.3	197.3	194.0	191.9	189.7	187.2	186.5	186.9
47.5°	157.9	155.4	154.6	152.9	151.1	149.3	147.9	145.4	145.0	143.6	145.0
50°	121.7	121.0	119.9	119.2	118.1	116.7	115.3	113.8	113.1	113.1	113.5
52.5°	94.5	94.9	93.8	92.7	92.0	92.0	90.2	89.9	89.9	88.4	89.9
55°	72.3	72.0	72.3	71.6	71.6	70.5	70.5	69.4	69.4	68.4	69.1
57.5°	53.0	53.7	53.0	53.3	54.1	53.0	52.6	51.5	52.3	51.5	51.9
60°	41.2	41.2	41.2	40.8	40.8	40.4	40.4	40.1	40.1	39.4	40.1
62.5°	30.4	30.8	30.8	30.8	31.2	30.8	30.4	30.8	30.4	30.4	30.8
65°	20.1	20.4	20.4	20.1	20.8	20.1	20.4	20.8	21.1	20.8	21.1
67.5°	13.6	13.6	14.0	14.3	14.0	14.3	14.7	14.3	14.7	15.4	14.7
70°	10.0	10.4	10.4	10.0	9.7	10.0	9.7	10.7	10.7	10.7	11.4
72.5°	6.4	6.4	6.1	6.1	6.1	6.1	6.1	7.2	6.4	6.1	6.8
75°	3.6	3.9	3.9	2.9	3.2	3.9	2.9	3.2	4.3	3.6	4.3
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.5	2.5	2.5	2.9
80°	1.8	1.4	1.4	1.1	1.4	1.4	1.4	2.2	1.8	1.8	2.2
82.5°	0.7	0.7	0.4	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4
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	0.7	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°	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	732.5	732.5	732.1	731.4	730.0	730.0	729.6	728.5	727.8	727.4	727.4
5°	728.9	727.4	726.0	722.1	722.1	721.4	719.2	717.8	717.1	715.3	714.6
7.5°	725.7	721.4	718.9	716.4	713.1	711.7	709.2	708.1	705.6	703.8	702.8
10°	717.8	714.9	711.7	707.8	705.3	702.4	699.5	697.4	694.2	692.4	690.9
12.5°	712.4	708.1	705.3	701.0	696.7	694.2	690.2	687.7	684.5	680.9	678.8
15°	707.4	702.8	698.8	694.2	689.5	686.6	682.0	679.1	674.5	670.9	668.4
17.5°	699.9	695.9	691.7	685.9	681.6	678.1	673.0	669.5	665.2	660.5	658.0
20°	692.0	687.4	683.1	677.3	673.0	668.7	663.7	659.8	654.8	650.5	647.6
22.5°	681.6	676.3	672.7	666.9	661.9	657.3	652.6	648.0	643.3	639.7	636.5
25°	666.6	660.9	656.9	652.3	647.6	644.0	638.3	635.5	630.8	627.6	624.3
27.5°	645.1	640.8	637.2	632.6	628.6	625.8	621.5	618.6	614.7	611.8	609.3
30°	613.6	610.0	606.8	602.2	599.3	596.8	592.8	590.3	587.5	584.2	583.5
32.5°	571.4	568.5	565.3	562.1	559.9	558.5	555.2	553.8	551.0	549.2	547.4
35°	507.6	505.1	503.4	501.9	501.2	501.6	500.8	502.3	503.0	502.6	503.0
37.5°	424.2	422.8	423.5	424.6	428.2	432.8	437.1	443.6	447.9	452.2	456.1
40°	331.2	332.2	335.1	341.5	350.8	361.2	370.9	383.1	395.2	403.8	411.7
42.5°	249.9	253.1	260.3	269.6	283.5	298.9	314.0	331.9	346.5	360.9	370.9
45°	188.0	192.2	201.6	214.4	229.8	247.7	266.7	286.8	304.3	319.0	330.1
47.5°	146.4	150.4	159.7	173.3	192.2	210.9	230.6	251.3	269.6	283.9	293.6
50°	115.6	120.6	128.9	143.2	162.2	181.9	202.3	222.7	239.9	252.0	260.6
52.5°	90.9	95.6	103.5	118.5	137.8	157.5	176.5	196.5	211.6	223.4	229.1
55°	70.5	74.8	83.0	95.6	113.8	133.2	152.1	169.3	183.3	191.9	197.3
57.5°	53.7	56.9	62.7	75.2	91.7	109.5	125.7	142.8	153.6	159.7	163.2
60°	40.8	43.3	49.4	59.1	74.1	89.5	103.1	116.0	124.6	129.6	133.2
62.5°	30.8	33.7	37.9	46.2	57.6	70.2	81.6	91.3	98.4	101.7	104.2
65°	21.1	23.3	26.5	32.9	42.6	51.5	60.5	67.7	72.3	75.9	77.3
67.5°	15.8	17.2	19.0	24.0	30.8	37.9	44.0	49.0	54.1	55.5	58.0
70°	11.8	12.9	14.7	18.3	22.2	27.2	32.2	35.1	38.7	41.2	41.9
72.5°	7.5	7.9	9.7	11.8	15.0	18.3	21.5	24.0	26.1	27.6	28.3
75°	4.3	6.4	6.4	8.6	10.7	12.2	14.3	16.1	17.2	18.3	18.3
77.5°	2.9	3.9	4.3	5.4	6.4	8.2	10.0	11.1	12.2	12.5	12.5
80°	2.5	2.9	2.9	3.9	4.7	6.1	7.2	7.5	8.2	8.6	9.3
82.5°	1.1	1.4	1.8	2.9	3.2	3.2	4.3	4.7	5.4	5.7	5.7
85°	0.4	0.7	0.7	1.1	1.8	2.2	2.5	2.9	3.2	3.2	3.6
87.5°	0.4	0.4	0.0	0.4	0.7	0.7	1.4	1.4	1.4	2.2	2.2
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°	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	726.7	727.1	725.7	725.3	724.6	724.9	725.7
5°	713.5	713.8	712.4	711.0	711.0	710.6	711.0
7.5°	701.0	701.3	699.2	698.4	697.0	697.4	697.4
10°	688.4	688.4	685.2	684.8	683.8	683.4	683.4
12.5°	676.3	675.2	672.7	671.2	672.0	669.8	669.8
15°	665.5	663.7	660.5	659.4	657.6	656.9	656.9
17.5°	654.4	653.0	650.1	648.0	645.8	645.5	645.8
20°	643.7	642.2	638.7	637.2	635.5	635.5	634.7
22.5°	632.9	631.5	628.3	627.2	624.7	624.7	625.1
25°	621.8	620.8	617.2	616.5	616.1	614.7	615.4
27.5°	606.8	606.1	603.2	602.2	600.7	600.4	601.1
30°	579.2	578.2	576.0	575.0	572.4	572.8	573.5
32.5°	544.9	543.4	540.6	539.5	537.4	536.6	537.0
35°	501.9	500.8	498.3	498.3	496.2	495.5	496.2
37.5°	458.2	459.3	458.2	459.3	458.2	457.9	458.2
40°	417.1	421.0	421.7	425.7	424.2	426.4	426.0
42.5°	377.7	384.1	386.6	389.9	389.2	390.6	391.7
45°	337.9	343.3	345.8	348.0	348.3	349.1	349.4
47.5°	300.4	304.7	305.0	307.5	307.2	307.2	308.2
50°	265.3	268.1	268.8	270.6	269.2	268.5	268.8
52.5°	232.7	235.6	234.8	235.6	233.8	233.1	233.4
55°	199.4	200.8	200.8	200.8	198.7	198.7	198.7
57.5°	165.4	165.8	165.0	165.4	165.0	162.9	162.5
60°	134.3	134.3	133.9	134.3	133.2	132.1	132.1
62.5°	104.9	105.6	107.0	105.6	104.9	105.6	104.5
65°	78.4	79.8	79.5	80.2	79.8	79.8	79.1
67.5°	59.1	59.4	59.8	60.2	60.2	60.2	60.2
70°	43.3	44.4	44.0	44.0	44.0	44.0	46.2
72.5°	29.0	30.4	30.1	30.8	30.8	31.5	30.8
75°	19.7	21.1	20.4	21.5	21.1	20.4	22.2
77.5°	13.2	14.0	14.3	14.7	14.3	14.0	14.3
80°	9.3	10.0	9.7	10.0	10.0	10.0	10.4
82.5°	5.7	6.8	6.4	6.8	6.4	6.8	6.8
85°	3.9	4.3	3.6	4.3	3.9	3.9	4.7
87.5°	2.5	2.2	2.2	2.5	2.2	2.5	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)