

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: P245017

Luminaire Tested: **LSR8B15D010 EC8B15930 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245017
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 EC8B15930 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1264.5 lumens
Efficiency: N/A
Efficacy: 87.8 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

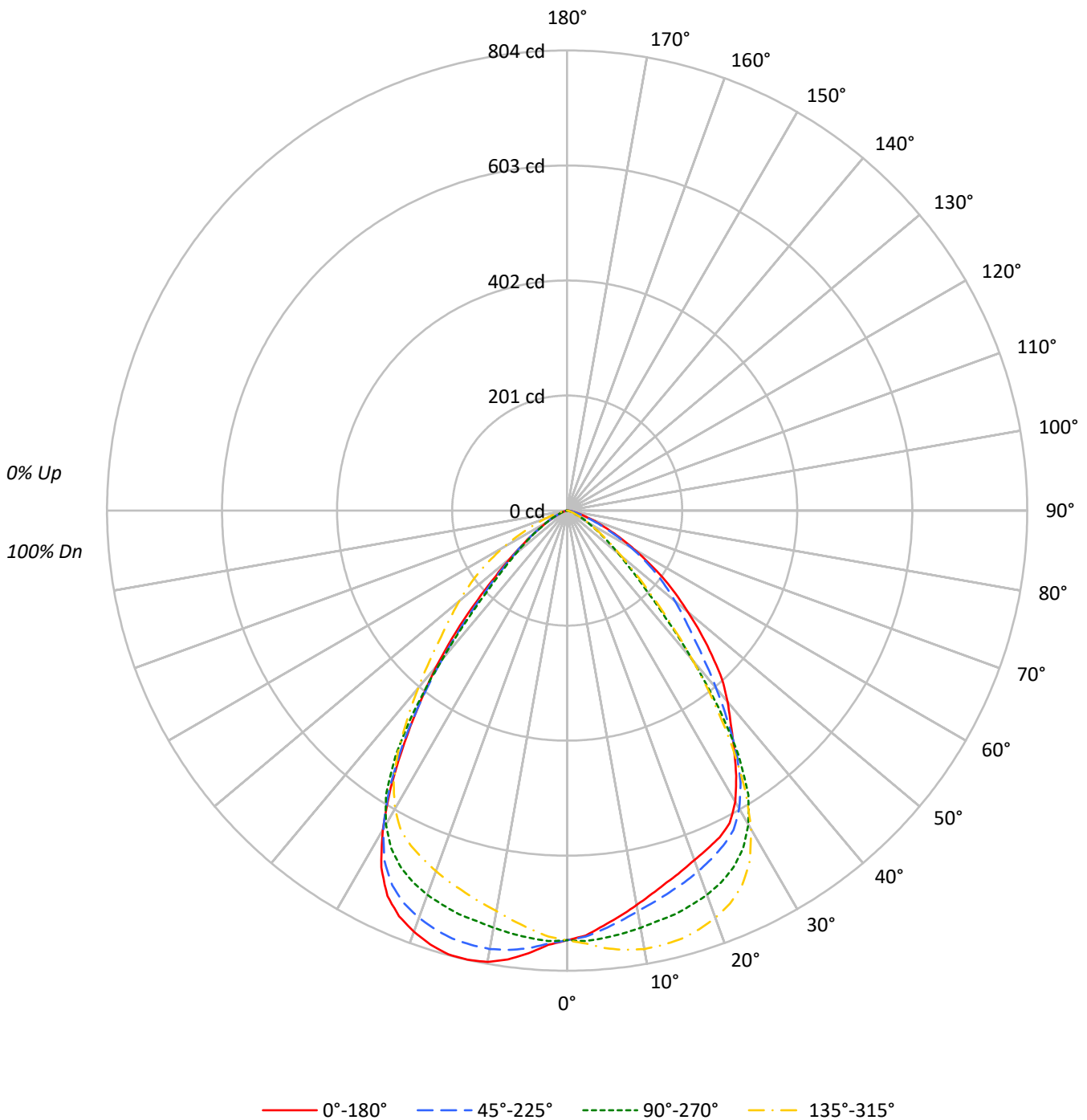
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	71.5	5.7
10°-20°	206.9	16.4
20°-30°	313.3	24.8
30°-40°	314.0	24.8
40°-50°	197.2	15.6
50°-60°	105.1	8.3
60°-70°	43.2	3.4
70°-80°	11.4	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°	591.7	46.8
0°-40°	905.7	71.6
0°-60°	1207.9	95.5
0°-90°	1264.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	751	751	751	751	751	
5°	728	750	776	750	728	69
15°	673	730	803	730	673	190
25°	630	688	743	688	630	289
35°	508	522	496	522	508	318
45°	358	191	221	191	358	275
55°	204	71	75	71	204	181
65°	81	22	20	22	81	84
75°	23	4	4	4	23	26
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°	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	743.0	742.2	741.9	742.7	743.0	744.5	744.1	744.8	744.8	745.2	745.9
5°	728.0	727.6	728.0	728.0	729.4	730.9	730.6	731.7	732.3	734.1	734.9
7.5°	714.1	714.1	713.6	715.1	715.9	718.1	717.7	719.6	720.6	722.5	725.1
10°	699.7	699.7	700.1	701.2	701.5	704.9	704.9	707.5	708.9	710.7	714.1
12.5°	685.8	685.8	688.0	687.3	688.7	691.3	692.4	695.0	697.1	700.8	704.1
15°	672.6	672.6	673.4	675.2	676.3	679.6	681.5	684.4	686.9	690.5	695.4
17.5°	661.3	660.9	661.3	663.4	665.6	668.6	670.0	673.7	676.3	681.0	685.5
20°	649.8	650.6	650.6	652.4	653.9	657.6	659.0	663.1	666.0	670.4	675.5
22.5°	640.0	639.6	639.6	642.2	643.3	646.6	648.1	651.7	655.0	658.7	663.4
25°	630.1	629.3	630.8	631.2	631.9	635.6	636.7	639.3	642.6	645.8	650.6
27.5°	615.4	614.8	615.1	616.6	617.7	620.6	621.3	623.8	626.4	629.3	633.4
30°	587.2	586.5	586.1	588.6	589.8	592.0	593.1	597.5	598.2	601.5	604.4
32.5°	549.9	549.4	550.2	552.4	553.4	556.5	557.9	560.5	562.3	564.1	567.0
35°	508.0	507.3	508.0	510.3	510.3	512.9	513.9	515.0	514.7	515.0	514.3
37.5°	469.1	468.8	469.1	470.3	469.1	470.3	469.1	467.0	463.0	458.6	454.1
40°	436.2	436.5	434.4	435.8	431.8	431.0	427.0	421.5	413.4	404.7	392.2
42.5°	401.0	399.9	398.4	399.2	395.8	393.2	386.7	379.8	369.5	354.8	339.8
45°	357.7	357.4	356.7	356.3	354.1	351.5	346.1	338.0	326.5	311.5	293.6
47.5°	315.6	314.4	314.4	314.9	312.3	312.0	307.5	300.5	290.7	276.0	257.3
50°	275.3	274.9	275.7	277.1	275.3	274.5	271.6	266.8	258.1	245.6	228.0
52.5°	239.0	238.7	239.3	241.2	240.5	241.2	238.2	234.6	228.7	216.6	201.2
55°	203.5	203.5	203.5	205.6	205.6	205.6	204.1	202.0	196.5	187.7	173.4
57.5°	166.5	166.8	168.9	169.4	168.9	169.7	169.4	167.1	163.4	157.3	146.3
60°	135.3	135.3	136.3	137.4	137.1	137.4	137.4	136.3	132.7	127.6	118.7
62.5°	107.1	108.2	107.4	108.2	109.6	108.2	107.4	106.7	104.1	100.8	93.5
65°	81.0	81.7	81.7	82.1	81.4	81.7	80.3	79.1	77.7	74.1	69.3
67.5°	61.5	61.5	61.5	61.5	61.2	60.9	60.5	59.4	56.8	55.4	50.2
70°	47.3	45.1	45.1	45.1	45.1	45.5	44.4	42.9	42.1	39.6	35.9
72.5°	31.5	32.3	31.5	31.5	30.8	31.2	29.7	28.9	28.2	26.8	24.5
75°	22.8	20.9	21.6	22.0	20.9	21.6	20.2	18.7	18.7	17.6	16.5
77.5°	14.7	14.3	14.7	15.0	14.7	14.3	13.6	12.8	12.8	12.4	11.3
80°	10.6	10.3	10.3	10.3	9.9	10.3	9.5	9.5	8.7	8.4	7.7
82.5°	7.0	7.0	6.6	7.0	6.6	7.0	5.8	5.8	5.8	5.5	4.8
85°	4.8	4.0	4.0	4.4	3.7	4.4	4.0	3.7	3.3	3.3	2.9
87.5°	2.2	2.6	2.2	2.6	2.2	2.2	2.6	2.2	2.2	1.5	1.5
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°	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	747.0	747.4	747.4	748.8	749.6	749.9	749.9	752.9	751.7	752.5	753.2
5°	736.4	738.6	739.3	739.3	743.3	744.8	746.2	749.6	749.9	752.2	754.8
7.5°	726.1	728.6	730.2	733.5	736.0	738.6	743.0	745.2	747.4	750.3	753.6
10°	716.2	719.1	722.1	724.6	728.6	732.0	734.9	740.1	742.7	746.7	751.1
12.5°	706.7	710.7	713.3	717.7	722.1	725.1	729.4	734.1	738.2	742.2	747.4
15°	698.3	703.1	706.0	710.7	715.5	719.6	724.3	730.2	733.1	737.8	742.7
17.5°	689.1	694.2	697.9	702.3	708.1	712.5	716.7	722.5	726.1	731.2	736.7
20°	679.6	684.7	689.1	693.5	699.4	703.8	708.6	714.4	718.4	723.6	728.0
22.5°	668.2	672.9	677.8	682.9	688.7	692.4	697.9	703.1	707.5	712.2	716.7
25°	653.5	659.4	663.1	667.9	672.6	676.6	682.5	687.6	691.3	695.7	699.7
27.5°	636.3	640.8	643.7	647.7	652.4	656.1	660.5	665.6	669.3	673.4	676.3
30°	607.0	611.1	613.6	616.6	621.3	624.6	628.3	633.0	635.6	638.5	641.1
32.5°	568.5	571.8	573.3	575.5	578.8	582.0	585.0	589.1	590.1	592.0	592.0
35°	512.9	513.5	513.2	513.9	515.3	517.2	519.8	522.3	523.8	523.8	522.7
37.5°	447.5	443.1	438.4	434.7	433.6	432.9	434.4	435.4	437.0	437.6	435.8
40°	379.8	369.8	359.2	349.6	343.1	340.1	339.1	339.8	339.8	342.4	342.4
42.5°	321.5	306.0	290.3	276.0	266.5	259.2	255.8	255.8	256.3	258.1	259.2
45°	273.1	253.7	235.3	219.6	206.4	196.8	192.5	191.4	191.0	191.7	194.3
47.5°	236.1	215.9	196.8	177.5	163.4	153.9	149.9	148.4	147.0	148.4	148.9
50°	207.0	186.2	166.0	146.6	131.9	123.5	118.4	116.1	115.8	115.8	116.6
52.5°	180.7	161.3	141.1	121.3	105.9	97.9	93.2	92.0	90.6	92.0	92.0
55°	155.8	136.3	116.6	97.9	85.1	76.6	72.2	70.7	70.0	71.1	71.1
57.5°	128.7	112.2	93.8	77.0	64.1	58.3	54.9	53.1	52.8	53.5	52.8
60°	105.6	91.6	75.9	60.5	50.6	44.4	41.8	41.0	40.4	41.0	41.0
62.5°	83.5	71.9	59.0	47.3	38.9	34.4	31.5	31.5	31.2	31.2	31.5
65°	62.0	52.8	43.6	33.7	27.1	23.9	21.6	21.6	21.3	21.6	21.3
67.5°	45.1	38.9	31.5	24.5	19.4	17.6	16.1	15.0	15.8	15.0	14.7
70°	33.0	27.8	22.8	18.7	15.0	13.2	12.1	11.8	11.0	11.0	11.0
72.5°	22.0	18.7	15.4	12.1	9.9	8.1	7.7	7.0	6.3	6.6	7.3
75°	14.7	12.4	11.0	8.7	6.6	6.6	4.4	4.4	3.7	4.4	3.3
77.5°	10.3	8.4	6.6	5.5	4.4	4.0	2.9	2.9	2.6	2.6	2.6
80°	7.3	6.3	4.8	4.0	2.9	2.9	2.6	2.2	1.8	1.8	2.2
82.5°	4.4	3.3	3.3	2.9	1.8	1.5	1.1	1.5	0.8	0.8	0.8
85°	2.6	2.2	1.8	1.1	0.8	0.8	0.3	0.0	0.3	0.3	0.0
87.5°	1.5	0.8	0.8	0.3	0.0	0.3	0.3	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°	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	755.1	754.8	755.4	755.4	757.7	757.2	758.4	758.4	757.7	758.0	759.5
5°	757.7	758.8	760.9	762.8	766.1	767.5	769.3	771.2	771.6	772.7	773.8
7.5°	757.7	761.3	763.8	767.2	771.6	774.2	778.2	781.4	782.9	784.8	786.9
10°	756.2	759.8	764.6	768.3	773.8	777.9	781.9	786.9	789.2	792.1	795.0
12.5°	753.2	757.2	762.4	767.2	773.4	777.1	782.2	786.9	790.3	794.3	797.6
15°	748.8	753.6	758.4	763.2	769.8	774.2	778.9	784.4	787.7	792.1	795.0
17.5°	741.9	747.0	751.4	755.8	762.1	767.2	771.6	776.7	780.0	783.7	787.7
20°	733.5	738.2	743.0	746.7	752.9	757.2	762.1	766.8	769.3	770.1	776.4
22.5°	722.8	726.1	729.8	735.7	739.3	743.3	747.7	752.2	754.8	758.8	760.9
25°	705.2	708.6	712.5	715.1	719.6	722.8	727.2	732.0	733.5	736.4	738.6
27.5°	680.7	682.5	684.4	686.5	689.1	691.0	693.5	695.7	697.1	698.6	700.1
30°	641.8	641.8	641.8	640.3	641.4	642.6	642.9	642.6	642.6	642.2	642.2
32.5°	590.5	587.6	584.3	581.4	580.2	578.8	578.0	577.0	575.1	574.1	574.4
35°	521.3	514.7	510.6	506.9	504.0	501.8	500.8	499.6	499.3	497.7	496.3
37.5°	434.7	429.9	427.0	424.9	422.3	420.0	420.4	420.8	421.8	421.2	421.5
40°	343.1	342.0	343.1	340.6	339.8	340.6	342.4	344.9	346.4	347.8	350.4
42.5°	261.0	262.8	265.3	265.3	266.5	267.9	270.2	274.2	276.3	278.9	281.9
45°	196.5	198.6	202.0	203.0	203.8	205.6	208.2	211.5	213.0	215.1	217.7
47.5°	151.3	152.9	154.7	156.5	158.4	159.1	161.6	161.6	163.4	164.9	165.7
50°	118.0	119.5	121.0	122.1	122.7	123.9	124.7	125.8	126.1	126.8	127.2
52.5°	92.4	94.2	94.2	94.9	96.1	97.1	96.7	97.1	97.5	97.5	98.6
55°	72.2	72.2	73.3	73.3	74.1	73.6	74.1	74.1	74.1	74.1	74.4
57.5°	53.9	54.3	55.4	54.6	54.3	54.9	54.3	54.9	54.6	55.4	54.3
60°	41.4	41.4	41.8	41.8	42.1	42.1	42.1	41.8	41.8	41.4	41.4
62.5°	31.2	31.5	31.9	31.5	31.5	31.5	31.2	31.2	30.8	30.4	30.4
65°	20.9	20.5	21.3	20.5	20.9	20.9	20.5	20.9	19.8	20.2	19.8
67.5°	15.0	14.7	14.3	14.7	14.3	13.9	13.9	14.3	14.7	13.6	13.6
70°	9.9	10.3	9.9	10.3	10.6	10.6	10.3	9.9	10.3	9.5	9.9
72.5°	6.3	6.3	6.3	6.3	6.3	6.6	6.6	6.6	5.8	5.8	5.5
75°	2.9	4.0	3.3	2.9	4.0	4.0	3.7	3.7	3.3	3.3	3.3
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°	1.5	1.5	1.5	1.1	1.5	1.5	1.8	1.5	1.5	1.1	1.8
82.5°	0.8	0.8	0.8	0.0	0.3	0.8	0.8	0.3	0.8	0.8	0.3
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°	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	759.1	758.8	759.1	759.5	759.1	758.8	759.1	759.5	758.0	757.7	758.4
5°	775.3	775.3	776.0	776.4	776.0	775.3	775.3	773.8	772.7	771.6	771.2
7.5°	789.2	790.0	790.6	791.0	790.6	790.0	789.2	786.9	784.8	782.9	781.4
10°	797.6	798.7	800.2	800.8	800.2	798.7	797.6	795.0	792.1	789.2	786.9
12.5°	801.3	802.4	804.2	803.9	804.2	802.4	801.3	797.6	794.3	790.3	786.9
15°	798.7	800.2	802.0	802.7	802.0	800.2	798.7	795.0	792.1	787.7	784.4
17.5°	790.6	792.9	793.9	795.0	793.9	792.9	790.6	787.7	783.7	780.0	776.7
20°	779.7	781.1	782.6	782.9	782.6	781.1	779.7	776.4	770.1	769.3	766.8
22.5°	763.8	765.0	768.3	767.2	768.3	765.0	763.8	760.9	758.8	754.8	752.2
25°	741.2	742.2	742.7	743.0	742.7	742.2	741.2	738.6	736.4	733.5	732.0
27.5°	702.0	702.0	702.6	703.1	702.6	702.0	702.0	700.1	698.6	697.1	695.7
30°	642.6	642.6	642.6	644.4	642.6	642.6	642.6	642.2	642.2	642.6	642.6
32.5°	574.1	573.3	572.5	573.3	572.5	573.3	574.1	574.4	574.1	575.1	577.0
35°	496.3	495.9	497.1	495.6	497.1	495.9	496.3	496.3	497.7	499.3	499.6
37.5°	421.8	421.2	422.6	421.2	422.6	421.2	421.8	421.5	421.2	421.8	420.8
40°	351.2	351.9	351.9	354.8	351.9	351.9	351.2	350.4	347.8	346.4	344.9
42.5°	283.4	285.5	284.8	287.0	284.8	285.5	283.4	281.9	278.9	276.3	274.2
45°	219.2	220.6	220.6	221.4	220.6	220.6	219.2	217.7	215.1	213.0	211.5
47.5°	168.3	168.3	168.3	168.6	168.3	168.3	168.3	165.7	164.9	163.4	161.6
50°	127.9	128.2	128.7	129.0	128.7	128.2	127.9	127.2	126.8	126.1	125.8
52.5°	98.2	98.6	97.9	98.6	97.9	98.6	98.2	98.6	97.5	97.5	97.1
55°	74.4	74.1	74.4	74.8	74.4	74.1	74.4	74.4	74.1	74.1	74.1
57.5°	54.6	53.9	53.9	53.9	53.9	53.9	54.6	54.3	55.4	54.6	54.9
60°	40.7	41.0	41.0	41.4	41.0	41.0	40.7	41.4	41.4	41.8	41.8
62.5°	30.0	31.2	30.4	31.2	30.4	31.2	30.0	30.4	30.4	30.8	31.2
65°	19.4	19.4	19.4	19.8	19.4	19.4	19.4	19.8	20.2	19.8	20.9
67.5°	13.2	13.6	14.3	13.9	14.3	13.6	13.2	13.6	13.6	14.7	14.3
70°	10.6	9.5	9.5	10.6	9.5	9.5	10.6	9.9	9.5	10.3	9.9
72.5°	6.3	5.5	6.3	6.3	6.3	5.5	6.3	5.5	5.8	5.8	6.6
75°	3.3	2.9	2.6	3.7	2.6	2.9	3.3	3.3	3.3	3.3	3.7
77.5°	2.2	1.8	2.6	2.6	2.6	1.8	2.2	1.8	2.2	1.8	2.2
80°	1.1	1.5	1.1	1.8	1.1	1.5	1.1	1.8	1.1	1.5	1.5
82.5°	0.3	0.8	0.8	0.8	0.8	0.8	0.3	0.3	0.8	0.8	0.3
85°	0.0	0.8	0.3	0.3	0.3	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.3	0.0	0.0	0.3	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°	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	758.4	757.2	757.7	755.4	755.4	754.8	755.1	753.2	752.5	751.7	752.9
5°	769.3	767.5	766.1	762.8	760.9	758.8	757.7	754.8	752.2	749.9	749.6
7.5°	778.2	774.2	771.6	767.2	763.8	761.3	757.7	753.6	750.3	747.4	745.2
10°	781.9	777.9	773.8	768.3	764.6	759.8	756.2	751.1	746.7	742.7	740.1
12.5°	782.2	777.1	773.4	767.2	762.4	757.2	753.2	747.4	742.2	738.2	734.1
15°	778.9	774.2	769.8	763.2	758.4	753.6	748.8	742.7	737.8	733.1	730.2
17.5°	771.6	767.2	762.1	755.8	751.4	747.0	741.9	736.7	731.2	726.1	722.5
20°	762.1	757.2	752.9	746.7	743.0	738.2	733.5	728.0	723.6	718.4	714.4
22.5°	747.7	743.3	739.3	735.7	729.8	726.1	722.8	716.7	712.2	707.5	703.1
25°	727.2	722.8	719.6	715.1	712.5	708.6	705.2	699.7	695.7	691.3	687.6
27.5°	693.5	691.0	689.1	686.5	684.4	682.5	680.7	676.3	673.4	669.3	665.6
30°	642.9	642.6	641.4	640.3	641.8	641.8	641.8	641.1	638.5	635.6	633.0
32.5°	578.0	578.8	580.2	581.4	584.3	587.6	590.5	592.0	592.0	590.1	589.1
35°	500.8	501.8	504.0	506.9	510.6	514.7	521.3	522.7	523.8	523.8	522.3
37.5°	420.4	420.0	422.3	424.9	427.0	429.9	434.7	435.8	437.6	437.0	435.4
40°	342.4	340.6	339.8	340.6	343.1	342.0	343.1	342.4	342.4	339.8	339.8
42.5°	270.2	267.9	266.5	265.3	265.3	262.8	261.0	259.2	258.1	256.3	255.8
45°	208.2	205.6	203.8	203.0	202.0	198.6	196.5	194.3	191.7	191.0	191.4
47.5°	161.6	159.1	158.4	156.5	154.7	152.9	151.3	148.9	148.4	147.0	148.4
50°	124.7	123.9	122.7	122.1	121.0	119.5	118.0	116.6	115.8	115.8	116.1
52.5°	96.7	97.1	96.1	94.9	94.2	94.2	92.4	92.0	92.0	90.6	92.0
55°	74.1	73.6	74.1	73.3	73.3	72.2	72.2	71.1	71.1	70.0	70.7
57.5°	54.3	54.9	54.3	54.6	55.4	54.3	53.9	52.8	53.5	52.8	53.1
60°	42.1	42.1	42.1	41.8	41.8	41.4	41.4	41.0	41.0	40.4	41.0
62.5°	31.2	31.5	31.5	31.5	31.9	31.5	31.2	31.5	31.2	31.2	31.5
65°	20.5	20.9	20.9	20.5	21.3	20.5	20.9	21.3	21.6	21.3	21.6
67.5°	13.9	13.9	14.3	14.7	14.3	14.7	15.0	14.7	15.0	15.8	15.0
70°	10.3	10.6	10.6	10.3	9.9	10.3	9.9	11.0	11.0	11.0	11.8
72.5°	6.6	6.6	6.3	6.3	6.3	6.3	6.3	7.3	6.6	6.3	7.0
75°	3.7	4.0	4.0	2.9	3.3	4.0	2.9	3.3	4.4	3.7	4.4
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.6	2.6	2.6	2.9
80°	1.8	1.5	1.5	1.1	1.5	1.5	1.5	2.2	1.8	1.8	2.2
82.5°	0.8	0.8	0.3	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	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°	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	749.9	749.9	749.6	748.8	747.4	747.4	747.0	745.9	745.2	744.8	744.8
5°	746.2	744.8	743.3	739.3	739.3	738.6	736.4	734.9	734.1	732.3	731.7
7.5°	743.0	738.6	736.0	733.5	730.2	728.6	726.1	725.1	722.5	720.6	719.6
10°	734.9	732.0	728.6	724.6	722.1	719.1	716.2	714.1	710.7	708.9	707.5
12.5°	729.4	725.1	722.1	717.7	713.3	710.7	706.7	704.1	700.8	697.1	695.0
15°	724.3	719.6	715.5	710.7	706.0	703.1	698.3	695.4	690.5	686.9	684.4
17.5°	716.7	712.5	708.1	702.3	697.9	694.2	689.1	685.5	681.0	676.3	673.7
20°	708.6	703.8	699.4	693.5	689.1	684.7	679.6	675.5	670.4	666.0	663.1
22.5°	697.9	692.4	688.7	682.9	677.8	672.9	668.2	663.4	658.7	655.0	651.7
25°	682.5	676.6	672.6	667.9	663.1	659.4	653.5	650.6	645.8	642.6	639.3
27.5°	660.5	656.1	652.4	647.7	643.7	640.8	636.3	633.4	629.3	626.4	623.8
30°	628.3	624.6	621.3	616.6	613.6	611.1	607.0	604.4	601.5	598.2	597.5
32.5°	585.0	582.0	578.8	575.5	573.3	571.8	568.5	567.0	564.1	562.3	560.5
35°	519.8	517.2	515.3	513.9	513.2	513.5	512.9	514.3	515.0	514.7	515.0
37.5°	434.4	432.9	433.6	434.7	438.4	443.1	447.5	454.1	458.6	463.0	467.0
40°	339.1	340.1	343.1	349.6	359.2	369.8	379.8	392.2	404.7	413.4	421.5
42.5°	255.8	259.2	266.5	276.0	290.3	306.0	321.5	339.8	354.8	369.5	379.8
45°	192.5	196.8	206.4	219.6	235.3	253.7	273.1	293.6	311.5	326.5	338.0
47.5°	149.9	153.9	163.4	177.5	196.8	215.9	236.1	257.3	276.0	290.7	300.5
50°	118.4	123.5	131.9	146.6	166.0	186.2	207.0	228.0	245.6	258.1	266.8
52.5°	93.2	97.9	105.9	121.3	141.1	161.3	180.7	201.2	216.6	228.7	234.6
55°	72.2	76.6	85.1	97.9	116.6	136.3	155.8	173.4	187.7	196.5	202.0
57.5°	54.9	58.3	64.1	77.0	93.8	112.2	128.7	146.3	157.3	163.4	167.1
60°	41.8	44.4	50.6	60.5	75.9	91.6	105.6	118.7	127.6	132.7	136.3
62.5°	31.5	34.4	38.9	47.3	59.0	71.9	83.5	93.5	100.8	104.1	106.7
65°	21.6	23.9	27.1	33.7	43.6	52.8	62.0	69.3	74.1	77.7	79.1
67.5°	16.1	17.6	19.4	24.5	31.5	38.9	45.1	50.2	55.4	56.8	59.4
70°	12.1	13.2	15.0	18.7	22.8	27.8	33.0	35.9	39.6	42.1	42.9
72.5°	7.7	8.1	9.9	12.1	15.4	18.7	22.0	24.5	26.8	28.2	28.9
75°	4.4	6.6	6.6	8.7	11.0	12.4	14.7	16.5	17.6	18.7	18.7
77.5°	2.9	4.0	4.4	5.5	6.6	8.4	10.3	11.3	12.4	12.8	12.8
80°	2.6	2.9	2.9	4.0	4.8	6.3	7.3	7.7	8.4	8.7	9.5
82.5°	1.1	1.5	1.8	2.9	3.3	3.3	4.4	4.8	5.5	5.8	5.8
85°	0.3	0.8	0.8	1.1	1.8	2.2	2.6	2.9	3.3	3.3	3.7
87.5°	0.3	0.3	0.0	0.3	0.8	0.8	1.5	1.5	1.5	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°	750.7	750.7	750.7	750.7	750.7	750.7	750.7
2.5°	744.1	744.5	743.0	742.7	741.9	742.2	743.0
5°	730.6	730.9	729.4	728.0	728.0	727.6	728.0
7.5°	717.7	718.1	715.9	715.1	713.6	714.1	714.1
10°	704.9	704.9	701.5	701.2	700.1	699.7	699.7
12.5°	692.4	691.3	688.7	687.3	688.0	685.8	685.8
15°	681.5	679.6	676.3	675.2	673.4	672.6	672.6
17.5°	670.0	668.6	665.6	663.4	661.3	660.9	661.3
20°	659.0	657.6	653.9	652.4	650.6	650.6	649.8
22.5°	648.1	646.6	643.3	642.2	639.6	639.6	640.0
25°	636.7	635.6	631.9	631.2	630.8	629.3	630.1
27.5°	621.3	620.6	617.7	616.6	615.1	614.8	615.4
30°	593.1	592.0	589.8	588.6	586.1	586.5	587.2
32.5°	557.9	556.5	553.4	552.4	550.2	549.4	549.9
35°	513.9	512.9	510.3	510.3	508.0	507.3	508.0
37.5°	469.1	470.3	469.1	470.3	469.1	468.8	469.1
40°	427.0	431.0	431.8	435.8	434.4	436.5	436.2
42.5°	386.7	393.2	395.8	399.2	398.4	399.9	401.0
45°	346.1	351.5	354.1	356.3	356.7	357.4	357.7
47.5°	307.5	312.0	312.3	314.9	314.4	314.4	315.6
50°	271.6	274.5	275.3	277.1	275.7	274.9	275.3
52.5°	238.2	241.2	240.5	241.2	239.3	238.7	239.0
55°	204.1	205.6	205.6	205.6	203.5	203.5	203.5
57.5°	169.4	169.7	168.9	169.4	168.9	166.8	166.5
60°	137.4	137.4	137.1	137.4	136.3	135.3	135.3
62.5°	107.4	108.2	109.6	108.2	107.4	108.2	107.1
65°	80.3	81.7	81.4	82.1	81.7	81.7	81.0
67.5°	60.5	60.9	61.2	61.5	61.5	61.5	61.5
70°	44.4	45.5	45.1	45.1	45.1	45.1	47.3
72.5°	29.7	31.2	30.8	31.5	31.5	32.3	31.5
75°	20.2	21.6	20.9	22.0	21.6	20.9	22.8
77.5°	13.6	14.3	14.7	15.0	14.7	14.3	14.7
80°	9.5	10.3	9.9	10.3	10.3	10.3	10.6
82.5°	5.8	7.0	6.6	7.0	6.6	7.0	7.0
85°	4.0	4.4	3.7	4.4	4.0	4.0	4.8
87.5°	2.6	2.2	2.2	2.6	2.2	2.6	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)