

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: P245876

Luminaire Tested: **LD8B20D010 ER8B209727 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245876
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 ER8B209727 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.0 lumens
Efficiency: N/A
Efficacy: 66.4 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

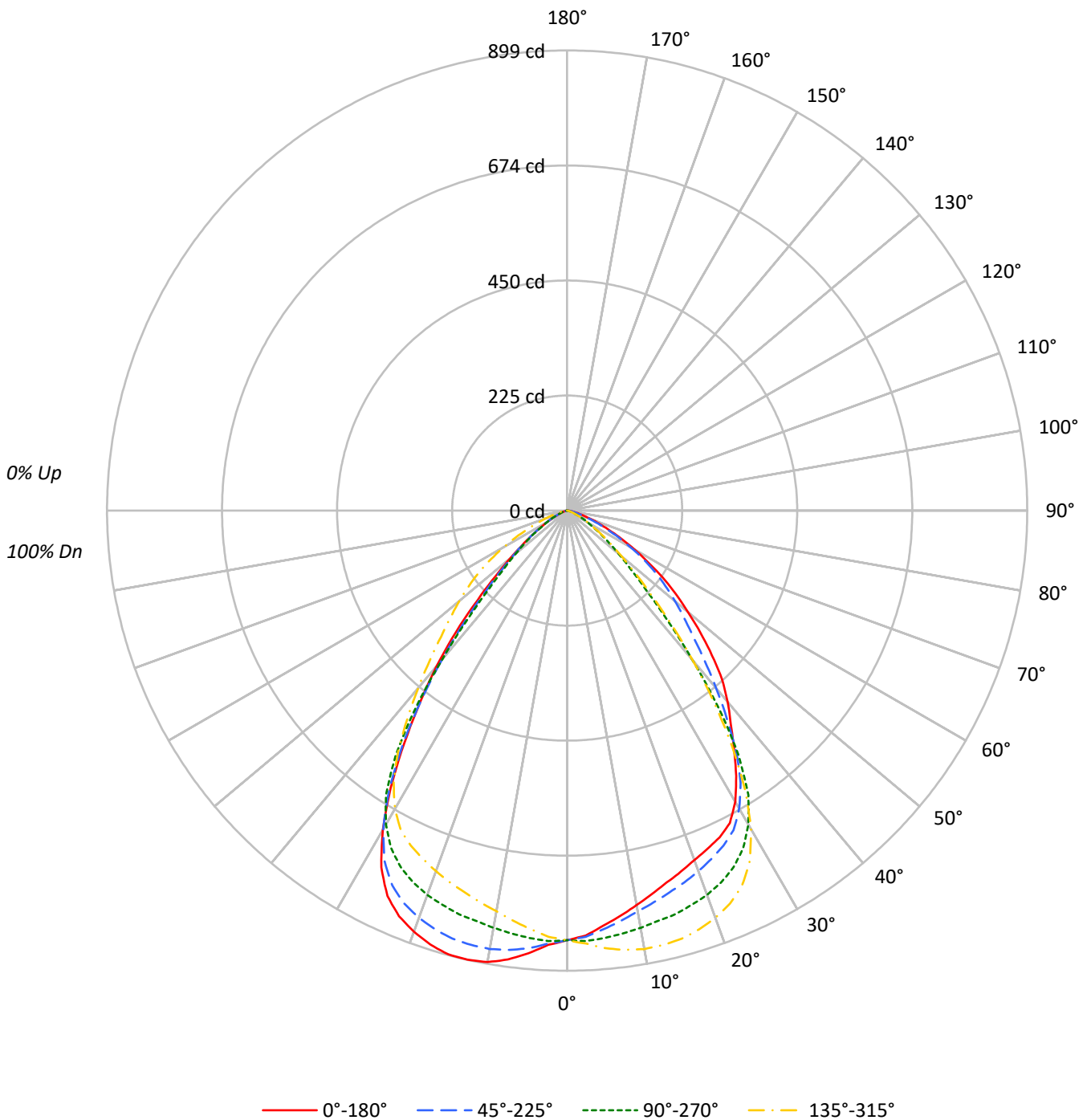
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	79.9	5.7
10°-20°	231.4	16.4
20°-30°	350.3	24.8
30°-40°	351.1	24.8
40°-50°	220.5	15.6
50°-60°	117.5	8.3
60°-70°	48.3	3.4
70°-80°	12.8	0.9
80°-90°	2.2	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°	661.6	46.8
0°-40°	1012.8	71.6
0°-60°	1350.8	95.5
0°-90°	1414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	839	839	839	839	839	
5°	814	838	868	838	814	77
15°	752	816	898	816	752	213
25°	705	769	831	769	705	323
35°	568	584	554	584	568	356
45°	400	214	248	214	400	308
55°	228	79	84	79	228	203
65°	91	24	22	24	91	94
75°	25	5	4	5	25	29
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°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	830.8	830.0	829.6	830.4	830.8	832.5	832.1	832.9	832.9	833.3	834.1
5°	814.0	813.6	814.0	814.0	815.7	817.3	816.9	818.1	818.9	821.0	821.8
7.5°	798.5	798.5	798.0	799.7	800.5	803.0	802.5	804.6	805.8	807.9	810.7
10°	782.5	782.5	782.9	784.1	784.5	788.2	788.2	791.1	792.7	794.8	798.5
12.5°	766.9	766.9	769.4	768.5	770.2	773.0	774.3	777.1	779.6	783.7	787.4
15°	752.1	752.1	753.0	755.0	756.2	759.9	762.0	765.3	768.1	772.2	777.6
17.5°	739.4	739.0	739.4	741.9	744.4	747.6	749.3	753.4	756.2	761.6	766.5
20°	726.7	727.6	727.6	729.6	731.2	735.3	737.0	741.5	744.8	749.7	755.4
22.5°	715.7	715.3	715.3	718.1	719.4	723.0	724.7	728.8	732.5	736.6	741.9
25°	704.6	703.8	705.4	705.8	706.6	710.7	712.0	714.8	718.5	722.2	727.6
27.5°	688.2	687.4	687.8	689.4	690.7	693.9	694.8	697.6	700.5	703.8	708.3
30°	656.6	655.8	655.4	658.3	659.5	662.0	663.2	668.1	668.9	672.6	675.9
32.5°	614.8	614.4	615.2	617.7	618.9	622.2	623.8	626.7	628.8	630.8	634.1
35°	568.1	567.3	568.1	570.6	570.6	573.4	574.7	575.9	575.5	575.9	575.1
37.5°	524.7	524.2	524.7	525.9	524.7	525.9	524.7	522.2	517.7	512.8	507.8
40°	487.8	488.2	485.7	487.4	482.8	482.0	477.5	471.4	462.4	452.5	438.6
42.5°	448.4	447.2	445.6	446.4	442.7	439.8	432.4	424.6	413.2	396.8	380.0
45°	400.1	399.6	398.8	398.4	396.0	393.1	386.9	377.9	365.2	348.4	328.3
47.5°	352.9	351.7	351.7	352.1	349.2	348.8	343.9	336.1	325.0	308.6	287.7
50°	307.8	307.4	308.2	309.9	307.8	307.0	303.7	298.4	288.6	274.6	254.9
52.5°	267.2	266.8	267.7	269.7	268.9	269.7	266.4	262.3	255.8	242.2	225.0
55°	227.5	227.5	227.5	229.9	229.9	229.9	228.3	225.9	219.7	209.9	193.9
57.5°	186.1	186.5	189.0	189.4	189.0	189.8	189.4	186.9	182.8	175.8	163.6
60°	151.3	151.3	152.5	153.7	153.3	153.7	153.7	152.5	148.4	142.6	132.8
62.5°	119.7	120.9	120.1	120.9	122.6	120.9	120.1	119.3	116.4	112.7	104.5
65°	90.6	91.4	91.4	91.8	91.0	91.4	89.8	88.5	86.9	82.8	77.5
67.5°	68.9	68.9	68.9	68.9	68.4	68.0	67.6	66.4	63.5	61.9	56.1
70°	52.9	50.4	50.4	50.4	50.4	50.8	49.6	48.0	47.1	44.3	40.2
72.5°	35.2	36.1	35.2	35.2	34.4	34.8	33.2	32.4	31.6	29.9	27.5
75°	25.4	23.4	24.2	24.6	23.4	24.2	22.5	20.9	20.9	19.7	18.4
77.5°	16.4	16.0	16.4	16.8	16.4	16.0	15.2	14.3	14.3	13.9	12.7
80°	11.9	11.5	11.5	11.5	11.1	11.5	10.7	10.7	9.8	9.4	8.6
82.5°	7.8	7.8	7.4	7.8	7.4	7.8	6.6	6.6	6.6	6.1	5.3
85°	5.3	4.5	4.5	4.9	4.1	4.9	4.5	4.1	3.7	3.7	3.3
87.5°	2.5	2.9	2.5	2.9	2.5	2.5	2.9	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°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	835.3	835.8	835.8	837.4	838.2	838.6	838.6	841.9	840.7	841.5	842.3
5°	823.5	825.9	826.7	826.7	831.2	832.9	834.5	838.2	838.6	841.1	844.0
7.5°	812.0	814.8	816.5	820.2	823.0	825.9	830.8	833.3	835.8	839.0	842.7
10°	800.9	804.2	807.5	810.3	814.8	818.5	821.8	827.6	830.4	834.9	839.9
12.5°	790.3	794.8	797.6	802.5	807.5	810.7	815.7	821.0	825.5	830.0	835.8
15°	780.8	786.2	789.4	794.8	800.1	804.6	809.9	816.5	819.8	825.1	830.4
17.5°	770.6	776.3	780.4	785.3	791.9	796.8	801.3	807.9	812.0	817.7	823.9
20°	759.9	765.7	770.6	775.5	782.1	787.0	792.3	798.9	803.4	809.1	814.0
22.5°	747.2	752.6	757.9	763.6	770.2	774.3	780.4	786.2	791.1	796.4	801.3
25°	730.8	737.4	741.5	746.8	752.1	756.6	763.2	768.9	773.0	778.0	782.5
27.5°	711.6	716.5	719.8	724.3	729.6	733.7	738.6	744.4	748.5	753.0	756.2
30°	678.8	683.3	686.2	689.4	694.8	698.5	702.6	707.9	710.7	714.0	716.9
32.5°	635.7	639.4	641.1	643.5	647.2	650.9	654.2	658.7	659.9	662.0	662.0
35°	573.4	574.2	573.8	574.7	576.3	578.3	581.2	584.1	585.7	585.7	584.5
37.5°	500.5	495.6	490.2	486.1	484.9	484.1	485.7	486.9	488.6	489.4	487.4
40°	424.6	413.6	401.7	391.0	383.7	380.4	379.1	380.0	380.0	382.8	382.8
42.5°	359.5	342.3	324.6	308.6	298.0	289.8	286.1	286.1	286.5	288.6	289.8
45°	305.4	283.6	263.1	245.5	230.8	220.1	215.2	214.0	213.6	214.4	217.2
47.5°	264.0	241.4	220.1	198.4	182.8	172.2	167.6	166.0	164.4	166.0	166.4
50°	231.6	208.2	185.7	164.0	147.6	138.1	132.4	129.9	129.5	129.5	130.3
52.5°	202.1	180.4	157.8	135.7	118.5	109.4	104.1	102.9	101.2	102.9	102.9
55°	174.2	152.5	130.3	109.4	95.1	85.7	80.7	79.1	78.3	79.5	79.5
57.5°	143.9	125.4	104.9	86.1	71.7	65.2	61.5	59.4	59.0	59.8	59.0
60°	118.0	102.5	84.8	67.6	56.6	49.6	46.7	45.9	45.1	45.9	45.9
62.5°	93.4	80.3	66.0	52.9	43.4	38.5	35.2	35.2	34.8	34.8	35.2
65°	69.3	59.0	48.8	37.7	30.3	26.6	24.2	24.2	23.8	24.2	23.8
67.5°	50.4	43.4	35.2	27.5	21.7	19.7	18.0	16.8	17.6	16.8	16.4
70°	36.9	31.1	25.4	20.9	16.8	14.8	13.5	13.1	12.3	12.3	12.3
72.5°	24.6	20.9	17.2	13.5	11.1	9.0	8.6	7.8	7.0	7.4	8.2
75°	16.4	13.9	12.3	9.8	7.4	7.4	4.9	4.9	4.1	4.9	3.7
77.5°	11.5	9.4	7.4	6.1	4.9	4.5	3.3	3.3	2.9	2.9	2.9
80°	8.2	7.0	5.3	4.5	3.3	3.3	2.9	2.5	2.0	2.0	2.5
82.5°	4.9	3.7	3.7	3.3	2.0	1.6	1.2	1.6	0.8	0.8	0.8
85°	2.9	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°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	844.4	844.0	844.8	844.8	847.2	846.8	848.1	848.1	847.2	847.6	849.3
5°	847.2	848.5	850.9	853.0	856.7	858.3	860.4	862.4	862.8	864.0	865.3
7.5°	847.2	851.3	854.2	857.9	862.8	865.7	870.2	873.9	875.5	877.6	880.0
10°	845.6	849.7	855.0	859.1	865.3	869.8	874.3	880.0	882.5	885.8	889.0
12.5°	842.3	846.8	852.6	857.9	864.9	869.0	874.7	880.0	883.7	888.2	891.9
15°	837.4	842.7	848.1	853.4	860.8	865.7	871.0	877.2	880.8	885.8	889.0
17.5°	829.6	835.3	840.3	845.2	852.2	857.9	862.8	868.5	872.2	876.3	880.8
20°	820.2	825.5	830.8	834.9	841.9	846.8	852.2	857.5	860.4	861.2	868.1
22.5°	808.3	812.0	816.1	822.6	826.7	831.2	836.2	841.1	844.0	848.5	850.9
25°	788.6	792.3	796.8	799.7	804.6	808.3	813.2	818.5	820.2	823.5	825.9
27.5°	761.2	763.2	765.3	767.7	770.6	772.6	775.5	778.0	779.6	781.2	782.9
30°	717.7	717.7	717.7	716.1	717.3	718.5	718.9	718.5	718.5	718.1	718.1
32.5°	660.3	657.1	653.4	650.1	648.9	647.2	646.4	645.2	643.1	641.9	642.3
35°	582.9	575.5	571.0	566.9	563.6	561.1	559.9	558.7	558.3	556.6	555.0
37.5°	486.1	480.8	477.5	475.1	472.2	469.7	470.1	470.6	471.8	471.0	471.4
40°	383.7	382.4	383.7	380.8	380.0	380.8	382.8	385.7	387.3	389.0	391.9
42.5°	291.8	293.9	296.8	296.8	298.0	299.6	302.1	306.6	309.0	311.9	315.2
45°	219.7	222.2	225.9	227.1	227.9	229.9	232.8	236.5	238.1	240.6	243.5
47.5°	169.3	170.9	173.0	175.0	177.1	177.9	180.8	180.8	182.8	184.5	185.3
50°	132.0	133.6	135.3	136.5	137.3	138.5	139.4	140.6	141.0	141.8	142.2
52.5°	103.3	105.3	105.3	106.2	107.4	108.6	108.2	108.6	109.0	109.0	110.3
55°	80.7	80.7	82.0	82.0	82.8	82.4	82.8	82.8	82.8	82.8	83.2
57.5°	60.2	60.7	61.9	61.1	60.7	61.5	60.7	61.5	61.1	61.9	60.7
60°	46.3	46.3	46.7	46.7	47.1	47.1	47.1	46.7	46.7	46.3	46.3
62.5°	34.8	35.2	35.7	35.2	35.2	35.2	34.8	34.8	34.4	34.0	34.0
65°	23.4	23.0	23.8	23.0	23.4	23.4	23.0	23.4	22.1	22.5	22.1
67.5°	16.8	16.4	16.0	16.4	16.0	15.6	15.6	16.0	16.4	15.2	15.2
70°	11.1	11.5	11.1	11.5	11.9	11.9	11.5	11.1	11.5	10.7	11.1
72.5°	7.0	7.0	7.0	7.0	7.0	7.4	7.4	7.4	6.6	6.6	6.1
75°	3.3	4.5	3.7	3.3	4.5	4.5	4.1	4.1	3.7	3.7	3.7
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°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	848.9	848.5	848.9	849.3	848.9	848.5	848.9	849.3	847.6	847.2	848.1
5°	866.9	866.9	867.7	868.1	867.7	866.9	866.9	865.3	864.0	862.8	862.4
7.5°	882.5	883.3	884.1	884.5	884.1	883.3	882.5	880.0	877.6	875.5	873.9
10°	891.9	893.1	894.8	895.6	894.8	893.1	891.9	889.0	885.8	882.5	880.0
12.5°	896.0	897.2	899.3	898.9	899.3	897.2	896.0	891.9	888.2	883.7	880.0
15°	893.1	894.8	896.8	897.7	896.8	894.8	893.1	889.0	885.8	880.8	877.2
17.5°	884.1	886.6	887.8	889.0	887.8	886.6	884.1	880.8	876.3	872.2	868.5
20°	871.8	873.5	875.1	875.5	875.1	873.5	871.8	868.1	861.2	860.4	857.5
22.5°	854.2	855.4	859.1	857.9	859.1	855.4	854.2	850.9	848.5	844.0	841.1
25°	828.8	830.0	830.4	830.8	830.4	830.0	828.8	825.9	823.5	820.2	818.5
27.5°	784.9	784.9	785.7	786.2	785.7	784.9	784.9	782.9	781.2	779.6	778.0
30°	718.5	718.5	718.5	720.6	718.5	718.5	718.5	718.1	718.1	718.5	718.5
32.5°	641.9	641.1	640.2	641.1	640.2	641.1	641.9	642.3	641.9	643.1	645.2
35°	555.0	554.6	555.8	554.2	555.8	554.6	555.0	555.0	556.6	558.3	558.7
37.5°	471.8	471.0	472.6	471.0	472.6	471.0	471.8	471.4	471.0	471.8	470.6
40°	392.7	393.5	393.5	396.8	393.5	393.5	392.7	391.9	389.0	387.3	385.7
42.5°	316.8	319.3	318.5	320.9	318.5	319.3	316.8	315.2	311.9	309.0	306.6
45°	245.1	246.8	246.8	247.6	246.8	246.8	245.1	243.5	240.6	238.1	236.5
47.5°	188.1	188.1	188.1	188.6	188.1	188.1	188.1	185.3	184.5	182.8	180.8
50°	143.1	143.5	143.9	144.3	143.9	143.5	143.1	142.2	141.8	141.0	140.6
52.5°	109.8	110.3	109.4	110.3	109.4	110.3	109.8	110.3	109.0	109.0	108.6
55°	83.2	82.8	83.2	83.6	83.2	82.8	83.2	83.2	82.8	82.8	82.8
57.5°	61.1	60.2	60.2	60.2	60.2	60.2	61.1	60.7	61.9	61.1	61.5
60°	45.5	45.9	45.9	46.3	45.9	45.9	45.5	46.3	46.3	46.7	46.7
62.5°	33.6	34.8	34.0	34.8	34.0	34.8	33.6	34.0	34.0	34.4	34.8
65°	21.7	21.7	21.7	22.1	21.7	21.7	21.7	22.1	22.5	22.1	23.4
67.5°	14.8	15.2	16.0	15.6	16.0	15.2	14.8	15.2	15.2	16.4	16.0
70°	11.9	10.7	10.7	11.9	10.7	10.7	11.9	11.1	10.7	11.5	11.1
72.5°	7.0	6.1	7.0	7.0	7.0	6.1	7.0	6.1	6.6	6.6	7.4
75°	3.7	3.3	2.9	4.1	2.9	3.3	3.7	3.7	3.7	3.7	4.1
77.5°	2.5	2.0	2.9	2.9	2.9	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°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	848.1	846.8	847.2	844.8	844.8	844.0	844.4	842.3	841.5	840.7	841.9
5°	860.4	858.3	856.7	853.0	850.9	848.5	847.2	844.0	841.1	838.6	838.2
7.5°	870.2	865.7	862.8	857.9	854.2	851.3	847.2	842.7	839.0	835.8	833.3
10°	874.3	869.8	865.3	859.1	855.0	849.7	845.6	839.9	834.9	830.4	827.6
12.5°	874.7	869.0	864.9	857.9	852.6	846.8	842.3	835.8	830.0	825.5	821.0
15°	871.0	865.7	860.8	853.4	848.1	842.7	837.4	830.4	825.1	819.8	816.5
17.5°	862.8	857.9	852.2	845.2	840.3	835.3	829.6	823.9	817.7	812.0	807.9
20°	852.2	846.8	841.9	834.9	830.8	825.5	820.2	814.0	809.1	803.4	798.9
22.5°	836.2	831.2	826.7	822.6	816.1	812.0	808.3	801.3	796.4	791.1	786.2
25°	813.2	808.3	804.6	799.7	796.8	792.3	788.6	782.5	778.0	773.0	768.9
27.5°	775.5	772.6	770.6	767.7	765.3	763.2	761.2	756.2	753.0	748.5	744.4
30°	718.9	718.5	717.3	716.1	717.7	717.7	717.7	716.9	714.0	710.7	707.9
32.5°	646.4	647.2	648.9	650.1	653.4	657.1	660.3	662.0	662.0	659.9	658.7
35°	559.9	561.1	563.6	566.9	571.0	575.5	582.9	584.5	585.7	585.7	584.1
37.5°	470.1	469.7	472.2	475.1	477.5	480.8	486.1	487.4	489.4	488.6	486.9
40°	382.8	380.8	380.0	380.8	383.7	382.4	383.7	382.8	382.8	380.0	380.0
42.5°	302.1	299.6	298.0	296.8	296.8	293.9	291.8	289.8	288.6	286.5	286.1
45°	232.8	229.9	227.9	227.1	225.9	222.2	219.7	217.2	214.4	213.6	214.0
47.5°	180.8	177.9	177.1	175.0	173.0	170.9	169.3	166.4	166.0	164.4	166.0
50°	139.4	138.5	137.3	136.5	135.3	133.6	132.0	130.3	129.5	129.5	129.9
52.5°	108.2	108.6	107.4	106.2	105.3	105.3	103.3	102.9	102.9	101.2	102.9
55°	82.8	82.4	82.8	82.0	82.0	80.7	80.7	79.5	79.5	78.3	79.1
57.5°	60.7	61.5	60.7	61.1	61.9	60.7	60.2	59.0	59.8	59.0	59.4
60°	47.1	47.1	47.1	46.7	46.7	46.3	46.3	45.9	45.9	45.1	45.9
62.5°	34.8	35.2	35.2	35.2	35.7	35.2	34.8	35.2	34.8	34.8	35.2
65°	23.0	23.4	23.4	23.0	23.8	23.0	23.4	23.8	24.2	23.8	24.2
67.5°	15.6	15.6	16.0	16.4	16.0	16.4	16.8	16.4	16.8	17.6	16.8
70°	11.5	11.9	11.9	11.5	11.1	11.5	11.1	12.3	12.3	12.3	13.1
72.5°	7.4	7.4	7.0	7.0	7.0	7.0	7.0	8.2	7.4	7.0	7.8
75°	4.1	4.5	4.5	3.3	3.7	4.5	3.3	3.7	4.9	4.1	4.9
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.3	2.9	2.9	2.9	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°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	838.6	838.6	838.2	837.4	835.8	835.8	835.3	834.1	833.3	832.9	832.9
5°	834.5	832.9	831.2	826.7	826.7	825.9	823.5	821.8	821.0	818.9	818.1
7.5°	830.8	825.9	823.0	820.2	816.5	814.8	812.0	810.7	807.9	805.8	804.6
10°	821.8	818.5	814.8	810.3	807.5	804.2	800.9	798.5	794.8	792.7	791.1
12.5°	815.7	810.7	807.5	802.5	797.6	794.8	790.3	787.4	783.7	779.6	777.1
15°	809.9	804.6	800.1	794.8	789.4	786.2	780.8	777.6	772.2	768.1	765.3
17.5°	801.3	796.8	791.9	785.3	780.4	776.3	770.6	766.5	761.6	756.2	753.4
20°	792.3	787.0	782.1	775.5	770.6	765.7	759.9	755.4	749.7	744.8	741.5
22.5°	780.4	774.3	770.2	763.6	757.9	752.6	747.2	741.9	736.6	732.5	728.8
25°	763.2	756.6	752.1	746.8	741.5	737.4	730.8	727.6	722.2	718.5	714.8
27.5°	738.6	733.7	729.6	724.3	719.8	716.5	711.6	708.3	703.8	700.5	697.6
30°	702.6	698.5	694.8	689.4	686.2	683.3	678.8	675.9	672.6	668.9	668.1
32.5°	654.2	650.9	647.2	643.5	641.1	639.4	635.7	634.1	630.8	628.8	626.7
35°	581.2	578.3	576.3	574.7	573.8	574.2	573.4	575.1	575.9	575.5	575.9
37.5°	485.7	484.1	484.9	486.1	490.2	495.6	500.5	507.8	512.8	517.7	522.2
40°	379.1	380.4	383.7	391.0	401.7	413.6	424.6	438.6	452.5	462.4	471.4
42.5°	286.1	289.8	298.0	308.6	324.6	342.3	359.5	380.0	396.8	413.2	424.6
45°	215.2	220.1	230.8	245.5	263.1	283.6	305.4	328.3	348.4	365.2	377.9
47.5°	167.6	172.2	182.8	198.4	220.1	241.4	264.0	287.7	308.6	325.0	336.1
50°	132.4	138.1	147.6	164.0	185.7	208.2	231.6	254.9	274.6	288.6	298.4
52.5°	104.1	109.4	118.5	135.7	157.8	180.4	202.1	225.0	242.2	255.8	262.3
55°	80.7	85.7	95.1	109.4	130.3	152.5	174.2	193.9	209.9	219.7	225.9
57.5°	61.5	65.2	71.7	86.1	104.9	125.4	143.9	163.6	175.8	182.8	186.9
60°	46.7	49.6	56.6	67.6	84.8	102.5	118.0	132.8	142.6	148.4	152.5
62.5°	35.2	38.5	43.4	52.9	66.0	80.3	93.4	104.5	112.7	116.4	119.3
65°	24.2	26.6	30.3	37.7	48.8	59.0	69.3	77.5	82.8	86.9	88.5
67.5°	18.0	19.7	21.7	27.5	35.2	43.4	50.4	56.1	61.9	63.5	66.4
70°	13.5	14.8	16.8	20.9	25.4	31.1	36.9	40.2	44.3	47.1	48.0
72.5°	8.6	9.0	11.1	13.5	17.2	20.9	24.6	27.5	29.9	31.6	32.4
75°	4.9	7.4	7.4	9.8	12.3	13.9	16.4	18.4	19.7	20.9	20.9
77.5°	3.3	4.5	4.9	6.1	7.4	9.4	11.5	12.7	13.9	14.3	14.3
80°	2.9	3.3	3.3	4.5	5.3	7.0	8.2	8.6	9.4	9.8	10.7
82.5°	1.2	1.6	2.0	3.3	3.7	3.7	4.9	5.3	6.1	6.6	6.6
85°	0.4	0.8	0.8	1.2	2.0	2.5	2.9	3.3	3.7	3.7	4.1
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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	832.1	832.5	830.8	830.4	829.6	830.0	830.8
5°	816.9	817.3	815.7	814.0	814.0	813.6	814.0
7.5°	802.5	803.0	800.5	799.7	798.0	798.5	798.5
10°	788.2	788.2	784.5	784.1	782.9	782.5	782.5
12.5°	774.3	773.0	770.2	768.5	769.4	766.9	766.9
15°	762.0	759.9	756.2	755.0	753.0	752.1	752.1
17.5°	749.3	747.6	744.4	741.9	739.4	739.0	739.4
20°	737.0	735.3	731.2	729.6	727.6	727.6	726.7
22.5°	724.7	723.0	719.4	718.1	715.3	715.3	715.7
25°	712.0	710.7	706.6	705.8	705.4	703.8	704.6
27.5°	694.8	693.9	690.7	689.4	687.8	687.4	688.2
30°	663.2	662.0	659.5	658.3	655.4	655.8	656.6
32.5°	623.8	622.2	618.9	617.7	615.2	614.4	614.8
35°	574.7	573.4	570.6	570.6	568.1	567.3	568.1
37.5°	524.7	525.9	524.7	525.9	524.7	524.2	524.7
40°	477.5	482.0	482.8	487.4	485.7	488.2	487.8
42.5°	432.4	439.8	442.7	446.4	445.6	447.2	448.4
45°	386.9	393.1	396.0	398.4	398.8	399.6	400.1
47.5°	343.9	348.8	349.2	352.1	351.7	351.7	352.9
50°	303.7	307.0	307.8	309.9	308.2	307.4	307.8
52.5°	266.4	269.7	268.9	269.7	267.7	266.8	267.2
55°	228.3	229.9	229.9	229.9	227.5	227.5	227.5
57.5°	189.4	189.8	189.0	189.4	189.0	186.5	186.1
60°	153.7	153.7	153.3	153.7	152.5	151.3	151.3
62.5°	120.1	120.9	122.6	120.9	120.1	120.9	119.7
65°	89.8	91.4	91.0	91.8	91.4	91.4	90.6
67.5°	67.6	68.0	68.4	68.9	68.9	68.9	68.9
70°	49.6	50.8	50.4	50.4	50.4	50.4	52.9
72.5°	33.2	34.8	34.4	35.2	35.2	36.1	35.2
75°	22.5	24.2	23.4	24.6	24.2	23.4	25.4
77.5°	15.2	16.0	16.4	16.8	16.4	16.0	16.4
80°	10.7	11.5	11.1	11.5	11.5	11.5	11.9
82.5°	6.6	7.8	7.4	7.8	7.4	7.8	7.8
85°	4.5	4.9	4.1	4.9	4.5	4.5	5.3
87.5°	2.9	2.5	2.5	2.9	2.5	2.9	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)