

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: P245882

Luminaire Tested: **LSR8B20D010 EC8B209730 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245882
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1495.0 lumens
Efficiency: N/A
Efficacy: 70.2 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

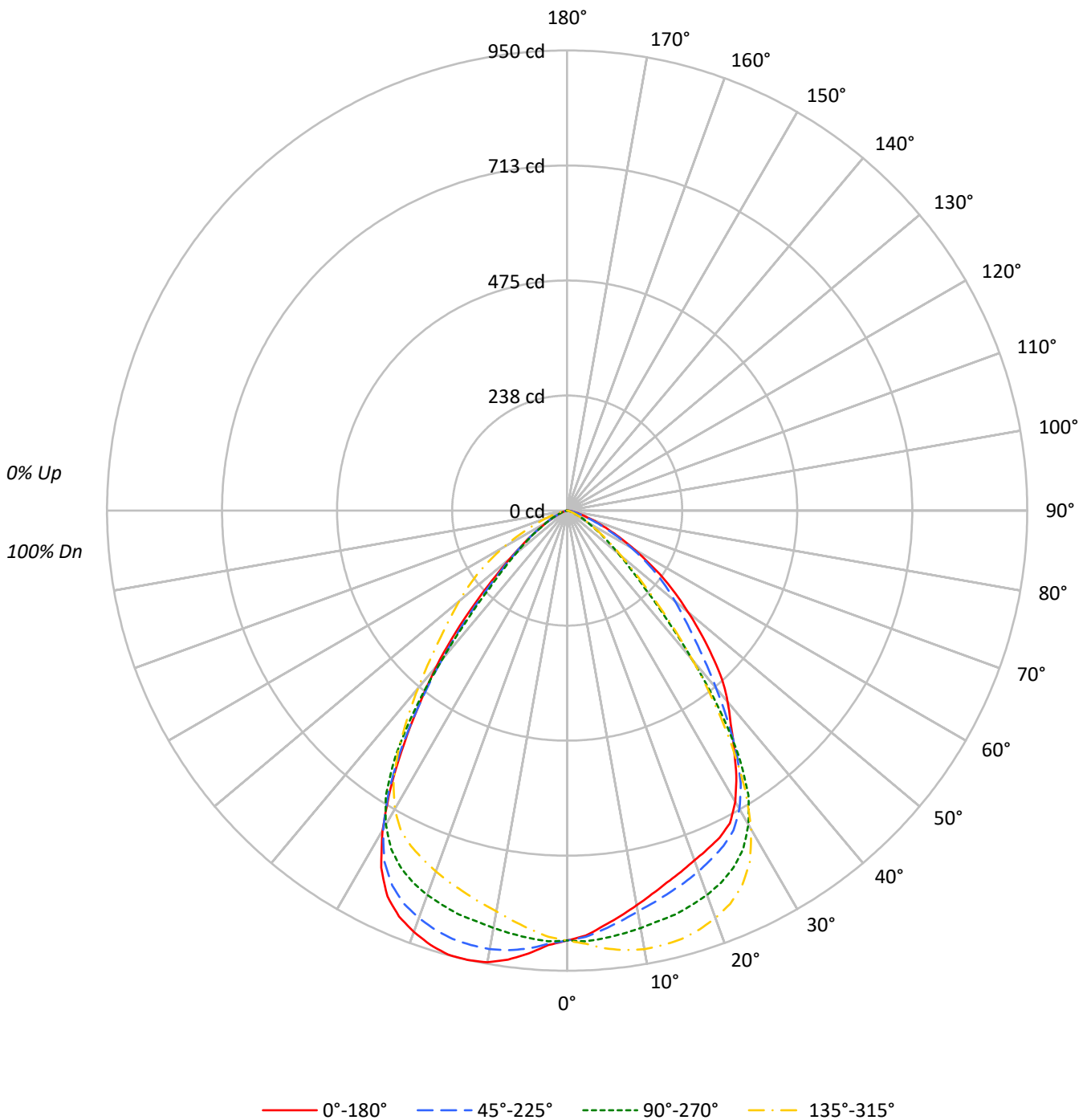
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	84.5	5.7
10°-20°	244.6	16.4
20°-30°	370.4	24.8
30°-40°	371.3	24.8
40°-50°	233.1	15.6
50°-60°	124.2	8.3
60°-70°	51.1	3.4
70°-80°	13.5	0.9
80°-90°	2.3	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°	699.5	46.8
0°-40°	1070.8	71.6
0°-60°	1428.1	95.5
0°-90°	1495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1495.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	888	888	888	888	888	
5°	861	886	918	886	861	81
15°	795	863	949	863	795	225
25°	745	813	878	813	745	342
35°	601	618	586	618	601	376
45°	423	226	262	226	423	325
55°	240	84	88	84	240	214
65°	96	26	23	26	96	99
75°	27	5	4	5	27	30
85°	6	0	0	0	6	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°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5
2.5°	878.4	877.6	877.1	878.0	878.4	880.2	879.7	880.6	880.6	881.0	881.9
5°	860.7	860.2	860.7	860.7	862.4	864.1	863.7	865.0	865.9	868.0	868.9
7.5°	844.2	844.2	843.8	845.5	846.4	849.0	848.5	850.7	852.0	854.2	857.2
10°	827.3	827.3	827.7	829.0	829.5	833.4	833.4	836.4	838.1	840.3	844.2
12.5°	810.8	810.8	813.4	812.6	814.3	817.3	818.6	821.7	824.3	828.6	832.5
15°	795.2	795.2	796.1	798.3	799.6	803.5	805.6	809.1	812.1	816.5	822.1
17.5°	781.8	781.4	781.8	784.4	787.0	790.5	792.2	796.5	799.6	805.2	810.4
20°	768.4	769.2	769.2	771.4	773.1	777.5	779.2	784.0	787.4	792.6	798.7
22.5°	756.7	756.2	756.2	759.3	760.6	764.5	766.2	770.5	774.4	778.8	784.4
25°	745.0	744.1	745.8	746.3	747.1	751.5	752.8	755.8	759.7	763.6	769.2
27.5°	727.6	726.8	727.2	728.9	730.2	733.7	734.6	737.6	740.6	744.1	748.9
30°	694.2	693.4	693.0	696.0	697.3	699.9	701.2	706.4	707.2	711.2	714.6
32.5°	650.0	649.6	650.5	653.1	654.4	657.9	659.6	662.6	664.8	667.0	670.4
35°	600.6	599.8	600.6	603.3	603.3	606.3	607.6	608.9	608.4	608.9	608.0
37.5°	554.7	554.3	554.7	556.0	554.7	556.0	554.7	552.1	547.4	542.1	536.9
40°	515.7	516.1	513.5	515.3	510.5	509.6	504.9	498.4	488.8	478.4	463.7
42.5°	474.1	472.8	471.1	471.9	468.0	465.0	457.2	449.0	436.8	419.5	401.7
45°	423.0	422.5	421.7	421.2	418.6	415.6	409.1	399.6	386.1	368.4	347.1
47.5°	373.1	371.8	371.8	372.3	369.2	368.8	363.6	355.4	343.7	326.3	304.2
50°	325.4	325.0	325.9	327.6	325.4	324.6	321.1	315.5	305.1	290.4	269.5
52.5°	282.5	282.1	283.0	285.2	284.3	285.2	281.7	277.4	270.4	256.1	237.9
55°	240.5	240.5	240.5	243.1	243.1	243.1	241.4	238.8	232.3	221.9	205.0
57.5°	196.8	197.2	199.8	200.2	199.8	200.7	200.2	197.6	193.3	185.9	172.9
60°	159.9	159.9	161.2	162.5	162.1	162.5	162.5	161.2	156.9	150.8	140.4
62.5°	126.5	127.8	127.0	127.8	129.6	127.8	127.0	126.1	123.1	119.2	110.5
65°	95.8	96.6	96.6	97.1	96.2	96.6	94.9	93.6	91.9	87.5	81.9
67.5°	72.8	72.8	72.8	72.8	72.4	71.9	71.5	70.2	67.2	65.4	59.4
70°	55.9	53.3	53.3	53.3	53.3	53.7	52.4	50.7	49.8	46.8	42.5
72.5°	37.3	38.1	37.3	37.3	36.4	36.8	35.1	34.2	33.4	31.6	29.0
75°	26.9	24.7	25.6	26.0	24.7	25.6	23.8	22.1	22.1	20.8	19.5
77.5°	17.3	16.9	17.3	17.8	17.3	16.9	16.0	15.2	15.2	14.7	13.4
80°	12.6	12.1	12.1	12.1	11.7	12.1	11.3	11.3	10.4	10.0	9.1
82.5°	8.2	8.2	7.8	8.2	7.8	8.2	6.9	6.9	6.9	6.5	5.6
85°	5.6	4.8	4.8	5.2	4.3	5.2	4.8	4.3	3.9	3.9	3.5
87.5°	2.6	3.0	2.6	3.0	2.6	2.6	3.0	2.6	2.6	1.7	1.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5
2.5°	883.2	883.6	883.6	885.4	886.2	886.7	886.7	890.1	888.8	889.7	890.6
5°	870.6	873.2	874.1	874.1	878.9	880.6	882.3	886.2	886.7	889.3	892.3
7.5°	858.5	861.5	863.3	867.2	870.2	873.2	878.4	881.0	883.6	887.1	891.0
10°	846.8	850.3	853.7	856.8	861.5	865.4	868.9	875.0	878.0	882.8	888.0
12.5°	835.5	840.3	843.3	848.5	853.7	857.2	862.4	868.0	872.8	877.6	883.6
15°	825.6	831.2	834.7	840.3	845.9	850.7	856.3	863.3	866.7	872.4	878.0
17.5°	814.7	820.8	825.1	830.3	837.3	842.5	847.2	854.2	858.5	864.6	871.1
20°	803.5	809.5	814.7	819.9	826.9	832.1	837.7	844.6	849.4	855.5	860.7
22.5°	790.0	795.7	801.3	807.4	814.3	818.6	825.1	831.2	836.4	842.0	847.2
25°	772.7	779.6	784.0	789.6	795.2	800.0	806.9	813.0	817.3	822.5	827.3
27.5°	752.3	757.5	761.0	765.8	771.4	775.7	780.9	787.0	791.3	796.1	799.6
30°	717.6	722.4	725.5	728.9	734.6	738.5	742.8	748.4	751.5	754.9	758.0
32.5°	672.1	676.1	677.8	680.4	684.3	688.2	691.7	696.4	697.7	699.9	699.9
35°	606.3	607.1	606.7	607.6	609.3	611.5	614.5	617.5	619.3	619.3	618.0
37.5°	529.1	523.9	518.3	514.0	512.7	511.8	513.5	514.8	516.6	517.4	515.3
40°	449.0	437.3	424.7	413.4	405.6	402.2	400.9	401.7	401.7	404.8	404.8
42.5°	380.1	361.9	343.2	326.3	315.1	306.4	302.5	302.5	302.9	305.1	306.4
45°	322.9	299.9	278.2	259.6	244.0	232.7	227.5	226.2	225.8	226.6	229.7
47.5°	279.1	255.3	232.7	209.8	193.3	182.0	177.3	175.5	173.8	175.5	176.0
50°	244.9	220.2	196.3	173.3	156.0	146.0	140.0	137.4	136.9	136.9	137.8
52.5°	213.6	190.7	166.9	143.5	125.2	115.7	110.1	108.8	107.0	108.8	108.8
55°	184.2	161.2	137.8	115.7	100.5	90.6	85.4	83.6	82.8	84.1	84.1
57.5°	152.1	132.6	111.0	91.0	75.8	68.9	65.0	62.8	62.4	63.3	62.4
60°	124.8	108.3	89.7	71.5	59.8	52.4	49.4	48.5	47.7	48.5	48.5
62.5°	98.8	84.9	69.8	55.9	45.9	40.7	37.3	37.3	36.8	36.8	37.3
65°	73.2	62.4	51.6	39.9	32.1	28.2	25.6	25.6	25.1	25.6	25.1
67.5°	53.3	45.9	37.3	29.0	23.0	20.8	19.1	17.8	18.6	17.8	17.3
70°	39.0	32.9	26.9	22.1	17.8	15.6	14.3	13.9	13.0	13.0	13.0
72.5°	26.0	22.1	18.2	14.3	11.7	9.5	9.1	8.2	7.4	7.8	8.7
75°	17.3	14.7	13.0	10.4	7.8	7.8	5.2	5.2	4.3	5.2	3.9
77.5°	12.1	10.0	7.8	6.5	5.2	4.8	3.5	3.5	3.0	3.0	3.0
80°	8.7	7.4	5.6	4.8	3.5	3.5	3.0	2.6	2.2	2.2	2.6
82.5°	5.2	3.9	3.9	3.5	2.2	1.7	1.3	1.7	0.9	0.9	0.9
85°	3.0	2.6	2.2	1.3	0.9	0.9	0.4	0.0	0.4	0.4	0.0
87.5°	1.7	0.9	0.9	0.4	0.0	0.4	0.4	0.0	0.0	0.0	0.9
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°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5
2.5°	892.7	892.3	893.2	893.2	895.8	895.3	896.6	896.6	895.8	896.2	897.9
5°	895.8	897.1	899.7	901.8	905.7	907.5	909.6	911.8	912.2	913.5	914.8
7.5°	895.8	900.1	903.1	907.0	912.2	915.3	920.0	923.9	925.7	927.8	930.4
10°	894.0	898.4	904.0	908.3	914.8	919.6	924.4	930.4	933.0	936.5	940.0
12.5°	890.6	895.3	901.4	907.0	914.4	918.7	924.8	930.4	934.3	939.1	943.0
15°	885.4	891.0	896.6	902.3	910.1	915.3	920.9	927.4	931.3	936.5	940.0
17.5°	877.1	883.2	888.4	893.6	901.0	907.0	912.2	918.3	922.2	926.5	931.3
20°	867.2	872.8	878.4	882.8	890.1	895.3	901.0	906.6	909.6	910.5	917.9
22.5°	854.6	858.5	862.8	869.8	874.1	878.9	884.1	889.3	892.3	897.1	899.7
25°	833.8	837.7	842.5	845.5	850.7	854.6	859.8	865.4	867.2	870.6	873.2
27.5°	804.8	806.9	809.1	811.7	814.7	816.9	819.9	822.5	824.3	826.0	827.7
30°	758.8	758.8	758.8	757.1	758.4	759.7	760.1	759.7	759.7	759.3	759.3
32.5°	698.2	694.7	690.8	687.3	686.0	684.3	683.4	682.1	680.0	678.7	679.1
35°	616.2	608.4	603.7	599.3	595.9	593.3	592.0	590.7	590.3	588.5	586.8
37.5°	514.0	508.3	504.9	502.3	499.2	496.6	497.1	497.5	498.8	497.9	498.4
40°	405.6	404.3	405.6	402.6	401.7	402.6	404.8	407.8	409.5	411.3	414.3
42.5°	308.6	310.7	313.8	313.8	315.1	316.8	319.4	324.2	326.8	329.8	333.3
45°	232.3	234.9	238.8	240.1	241.0	243.1	246.2	250.0	251.8	254.4	257.4
47.5°	179.0	180.7	182.9	185.0	187.2	188.1	191.1	191.1	193.3	195.0	195.9
50°	139.5	141.3	143.0	144.3	145.2	146.5	147.3	148.6	149.1	149.9	150.4
52.5°	109.2	111.4	111.4	112.2	113.5	114.8	114.4	114.8	115.3	115.3	116.6
55°	85.4	85.4	86.7	86.7	87.5	87.1	87.5	87.5	87.5	87.5	88.0
57.5°	63.7	64.1	65.4	64.6	64.1	65.0	64.1	65.0	64.6	65.4	64.1
60°	49.0	49.0	49.4	49.4	49.8	49.8	49.8	49.4	49.4	49.0	49.0
62.5°	36.8	37.3	37.7	37.3	37.3	37.3	36.8	36.8	36.4	36.0	36.0
65°	24.7	24.3	25.1	24.3	24.7	24.7	24.3	24.7	23.4	23.8	23.4
67.5°	17.8	17.3	16.9	17.3	16.9	16.5	16.5	16.9	17.3	16.0	16.0
70°	11.7	12.1	11.7	12.1	12.6	12.6	12.1	11.7	12.1	11.3	11.7
72.5°	7.4	7.4	7.4	7.4	7.4	7.8	7.8	7.8	6.9	6.9	6.5
75°	3.5	4.8	3.9	3.5	4.8	4.8	4.3	4.3	3.9	3.9	3.9
77.5°	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.2	2.6	2.2
80°	1.7	1.7	1.7	1.3	1.7	1.7	2.2	1.7	1.7	1.3	2.2
82.5°	0.9	0.9	0.9	0.0	0.4	0.9	0.9	0.4	0.9	0.9	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°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5
2.5°	897.5	897.1	897.5	897.9	897.5	897.1	897.5	897.9	896.2	895.8	896.6
5°	916.6	916.6	917.4	917.9	917.4	916.6	916.6	914.8	913.5	912.2	911.8
7.5°	933.0	933.9	934.8	935.2	934.8	933.9	933.0	930.4	927.8	925.7	923.9
10°	943.0	944.3	946.0	946.9	946.0	944.3	943.0	940.0	936.5	933.0	930.4
12.5°	947.3	948.6	950.8	950.4	950.8	948.6	947.3	943.0	939.1	934.3	930.4
15°	944.3	946.0	948.2	949.1	948.2	946.0	944.3	940.0	936.5	931.3	927.4
17.5°	934.8	937.4	938.7	940.0	938.7	937.4	934.8	931.3	926.5	922.2	918.3
20°	921.8	923.5	925.2	925.7	925.2	923.5	921.8	917.9	910.5	909.6	906.6
22.5°	903.1	904.4	908.3	907.0	908.3	904.4	903.1	899.7	897.1	892.3	889.3
25°	876.3	877.6	878.0	878.4	878.0	877.6	876.3	873.2	870.6	867.2	865.4
27.5°	829.9	829.9	830.8	831.2	830.8	829.9	829.9	827.7	826.0	824.3	822.5
30°	759.7	759.7	759.7	761.9	759.7	759.7	759.7	759.3	759.3	759.7	759.7
32.5°	678.7	677.8	676.9	677.8	676.9	677.8	678.7	679.1	678.7	680.0	682.1
35°	586.8	586.3	587.6	585.9	587.6	586.3	586.8	586.8	588.5	590.3	590.7
37.5°	498.8	497.9	499.7	497.9	499.7	497.9	498.8	498.4	497.9	498.8	497.5
40°	415.2	416.0	416.0	419.5	416.0	416.0	415.2	414.3	411.3	409.5	407.8
42.5°	335.0	337.6	336.7	339.3	336.7	337.6	335.0	333.3	329.8	326.8	324.2
45°	259.1	260.9	260.9	261.8	260.9	260.9	259.1	257.4	254.4	251.8	250.0
47.5°	198.9	198.9	198.9	199.4	198.9	198.9	198.9	195.9	195.0	193.3	191.1
50°	151.2	151.7	152.1	152.5	152.1	151.7	151.2	150.4	149.9	149.1	148.6
52.5°	116.1	116.6	115.7	116.6	115.7	116.6	116.1	116.6	115.3	115.3	114.8
55°	88.0	87.5	88.0	88.4	88.0	87.5	88.0	88.0	87.5	87.5	87.5
57.5°	64.6	63.7	63.7	63.7	63.7	63.7	64.6	64.1	65.4	64.6	65.0
60°	48.1	48.5	48.5	49.0	48.5	48.5	48.1	49.0	49.0	49.4	49.4
62.5°	35.5	36.8	36.0	36.8	36.0	36.8	35.5	36.0	36.0	36.4	36.8
65°	23.0	23.0	23.0	23.4	23.0	23.0	23.0	23.4	23.8	23.4	24.7
67.5°	15.6	16.0	16.9	16.5	16.9	16.0	15.6	16.0	16.0	17.3	16.9
70°	12.6	11.3	11.3	12.6	11.3	11.3	12.6	11.7	11.3	12.1	11.7
72.5°	7.4	6.5	7.4	7.4	7.4	6.5	7.4	6.5	6.9	6.9	7.8
75°	3.9	3.5	3.0	4.3	3.0	3.5	3.9	3.9	3.9	3.9	4.3
77.5°	2.6	2.2	3.0	3.0	3.0	2.2	2.6	2.2	2.6	2.2	2.6
80°	1.3	1.7	1.3	2.2	1.3	1.7	1.3	2.2	1.3	1.7	1.7
82.5°	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.9	0.9	0.4
85°	0.0	0.9	0.4	0.4	0.4	0.9	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°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5
2.5°	896.6	895.3	895.8	893.2	893.2	892.3	892.7	890.6	889.7	888.8	890.1
5°	909.6	907.5	905.7	901.8	899.7	897.1	895.8	892.3	889.3	886.7	886.2
7.5°	920.0	915.3	912.2	907.0	903.1	900.1	895.8	891.0	887.1	883.6	881.0
10°	924.4	919.6	914.8	908.3	904.0	898.4	894.0	888.0	882.8	878.0	875.0
12.5°	924.8	918.7	914.4	907.0	901.4	895.3	890.6	883.6	877.6	872.8	868.0
15°	920.9	915.3	910.1	902.3	896.6	891.0	885.4	878.0	872.4	866.7	863.3
17.5°	912.2	907.0	901.0	893.6	888.4	883.2	877.1	871.1	864.6	858.5	854.2
20°	901.0	895.3	890.1	882.8	878.4	872.8	867.2	860.7	855.5	849.4	844.6
22.5°	884.1	878.9	874.1	869.8	862.8	858.5	854.6	847.2	842.0	836.4	831.2
25°	859.8	854.6	850.7	845.5	842.5	837.7	833.8	827.3	822.5	817.3	813.0
27.5°	819.9	816.9	814.7	811.7	809.1	806.9	804.8	799.6	796.1	791.3	787.0
30°	760.1	759.7	758.4	757.1	758.8	758.8	758.8	758.0	754.9	751.5	748.4
32.5°	683.4	684.3	686.0	687.3	690.8	694.7	698.2	699.9	699.9	697.7	696.4
35°	592.0	593.3	595.9	599.3	603.7	608.4	616.2	618.0	619.3	619.3	617.5
37.5°	497.1	496.6	499.2	502.3	504.9	508.3	514.0	515.3	517.4	516.6	514.8
40°	404.8	402.6	401.7	402.6	405.6	404.3	405.6	404.8	404.8	401.7	401.7
42.5°	319.4	316.8	315.1	313.8	313.8	310.7	308.6	306.4	305.1	302.9	302.5
45°	246.2	243.1	241.0	240.1	238.8	234.9	232.3	229.7	226.6	225.8	226.2
47.5°	191.1	188.1	187.2	185.0	182.9	180.7	179.0	176.0	175.5	173.8	175.5
50°	147.3	146.5	145.2	144.3	143.0	141.3	139.5	137.8	136.9	136.9	137.4
52.5°	114.4	114.8	113.5	112.2	111.4	111.4	109.2	108.8	108.8	107.0	108.8
55°	87.5	87.1	87.5	86.7	86.7	85.4	85.4	84.1	84.1	82.8	83.6
57.5°	64.1	65.0	64.1	64.6	65.4	64.1	63.7	62.4	63.3	62.4	62.8
60°	49.8	49.8	49.8	49.4	49.4	49.0	49.0	48.5	48.5	47.7	48.5
62.5°	36.8	37.3	37.3	37.3	37.7	37.3	36.8	37.3	36.8	36.8	37.3
65°	24.3	24.7	24.7	24.3	25.1	24.3	24.7	25.1	25.6	25.1	25.6
67.5°	16.5	16.5	16.9	17.3	16.9	17.3	17.8	17.3	17.8	18.6	17.8
70°	12.1	12.6	12.6	12.1	11.7	12.1	11.7	13.0	13.0	13.0	13.9
72.5°	7.8	7.8	7.4	7.4	7.4	7.4	7.4	8.7	7.8	7.4	8.2
75°	4.3	4.8	4.8	3.5	3.9	4.8	3.5	3.9	5.2	4.3	5.2
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.5	3.0	3.0	3.0	3.5
80°	2.2	1.7	1.7	1.3	1.7	1.7	1.7	2.6	2.2	2.2	2.6
82.5°	0.9	0.9	0.4	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.7
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	0.9	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°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5
2.5°	886.7	886.7	886.2	885.4	883.6	883.6	883.2	881.9	881.0	880.6	880.6
5°	882.3	880.6	878.9	874.1	874.1	873.2	870.6	868.9	868.0	865.9	865.0
7.5°	878.4	873.2	870.2	867.2	863.3	861.5	858.5	857.2	854.2	852.0	850.7
10°	868.9	865.4	861.5	856.8	853.7	850.3	846.8	844.2	840.3	838.1	836.4
12.5°	862.4	857.2	853.7	848.5	843.3	840.3	835.5	832.5	828.6	824.3	821.7
15°	856.3	850.7	845.9	840.3	834.7	831.2	825.6	822.1	816.5	812.1	809.1
17.5°	847.2	842.5	837.3	830.3	825.1	820.8	814.7	810.4	805.2	799.6	796.5
20°	837.7	832.1	826.9	819.9	814.7	809.5	803.5	798.7	792.6	787.4	784.0
22.5°	825.1	818.6	814.3	807.4	801.3	795.7	790.0	784.4	778.8	774.4	770.5
25°	806.9	800.0	795.2	789.6	784.0	779.6	772.7	769.2	763.6	759.7	755.8
27.5°	780.9	775.7	771.4	765.8	761.0	757.5	752.3	748.9	744.1	740.6	737.6
30°	742.8	738.5	734.6	728.9	725.5	722.4	717.6	714.6	711.2	707.2	706.4
32.5°	691.7	688.2	684.3	680.4	677.8	676.1	672.1	670.4	667.0	664.8	662.6
35°	614.5	611.5	609.3	607.6	606.7	607.1	606.3	608.0	608.9	608.4	608.9
37.5°	513.5	511.8	512.7	514.0	518.3	523.9	529.1	536.9	542.1	547.4	552.1
40°	400.9	402.2	405.6	413.4	424.7	437.3	449.0	463.7	478.4	488.8	498.4
42.5°	302.5	306.4	315.1	326.3	343.2	361.9	380.1	401.7	419.5	436.8	449.0
45°	227.5	232.7	244.0	259.6	278.2	299.9	322.9	347.1	368.4	386.1	399.6
47.5°	177.3	182.0	193.3	209.8	232.7	255.3	279.1	304.2	326.3	343.7	355.4
50°	140.0	146.0	156.0	173.3	196.3	220.2	244.9	269.5	290.4	305.1	315.5
52.5°	110.1	115.7	125.2	143.5	166.9	190.7	213.6	237.9	256.1	270.4	277.4
55°	85.4	90.6	100.5	115.7	137.8	161.2	184.2	205.0	221.9	232.3	238.8
57.5°	65.0	68.9	75.8	91.0	111.0	132.6	152.1	172.9	185.9	193.3	197.6
60°	49.4	52.4	59.8	71.5	89.7	108.3	124.8	140.4	150.8	156.9	161.2
62.5°	37.3	40.7	45.9	55.9	69.8	84.9	98.8	110.5	119.2	123.1	126.1
65°	25.6	28.2	32.1	39.9	51.6	62.4	73.2	81.9	87.5	91.9	93.6
67.5°	19.1	20.8	23.0	29.0	37.3	45.9	53.3	59.4	65.4	67.2	70.2
70°	14.3	15.6	17.8	22.1	26.9	32.9	39.0	42.5	46.8	49.8	50.7
72.5°	9.1	9.5	11.7	14.3	18.2	22.1	26.0	29.0	31.6	33.4	34.2
75°	5.2	7.8	7.8	10.4	13.0	14.7	17.3	19.5	20.8	22.1	22.1
77.5°	3.5	4.8	5.2	6.5	7.8	10.0	12.1	13.4	14.7	15.2	15.2
80°	3.0	3.5	3.5	4.8	5.6	7.4	8.7	9.1	10.0	10.4	11.3
82.5°	1.3	1.7	2.2	3.5	3.9	3.9	5.2	5.6	6.5	6.9	6.9
85°	0.4	0.9	0.9	1.3	2.2	2.6	3.0	3.5	3.9	3.9	4.3
87.5°	0.4	0.4	0.0	0.4	0.9	0.9	1.7	1.7	1.7	2.6	2.6
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):

	330°	335°	340°	345°	350°	355°	360°
0°	887.5	887.5	887.5	887.5	887.5	887.5	887.5
2.5°	879.7	880.2	878.4	878.0	877.1	877.6	878.4
5°	863.7	864.1	862.4	860.7	860.7	860.2	860.7
7.5°	848.5	849.0	846.4	845.5	843.8	844.2	844.2
10°	833.4	833.4	829.5	829.0	827.7	827.3	827.3
12.5°	818.6	817.3	814.3	812.6	813.4	810.8	810.8
15°	805.6	803.5	799.6	798.3	796.1	795.2	795.2
17.5°	792.2	790.5	787.0	784.4	781.8	781.4	781.8
20°	779.2	777.5	773.1	771.4	769.2	769.2	768.4
22.5°	766.2	764.5	760.6	759.3	756.2	756.2	756.7
25°	752.8	751.5	747.1	746.3	745.8	744.1	745.0
27.5°	734.6	733.7	730.2	728.9	727.2	726.8	727.6
30°	701.2	699.9	697.3	696.0	693.0	693.4	694.2
32.5°	659.6	657.9	654.4	653.1	650.5	649.6	650.0
35°	607.6	606.3	603.3	603.3	600.6	599.8	600.6
37.5°	554.7	556.0	554.7	556.0	554.7	554.3	554.7
40°	504.9	509.6	510.5	515.3	513.5	516.1	515.7
42.5°	457.2	465.0	468.0	471.9	471.1	472.8	474.1
45°	409.1	415.6	418.6	421.2	421.7	422.5	423.0
47.5°	363.6	368.8	369.2	372.3	371.8	371.8	373.1
50°	321.1	324.6	325.4	327.6	325.9	325.0	325.4
52.5°	281.7	285.2	284.3	285.2	283.0	282.1	282.5
55°	241.4	243.1	243.1	243.1	240.5	240.5	240.5
57.5°	200.2	200.7	199.8	200.2	199.8	197.2	196.8
60°	162.5	162.5	162.1	162.5	161.2	159.9	159.9
62.5°	127.0	127.8	129.6	127.8	127.0	127.8	126.5
65°	94.9	96.6	96.2	97.1	96.6	96.6	95.8
67.5°	71.5	71.9	72.4	72.8	72.8	72.8	72.8
70°	52.4	53.7	53.3	53.3	53.3	53.3	55.9
72.5°	35.1	36.8	36.4	37.3	37.3	38.1	37.3
75°	23.8	25.6	24.7	26.0	25.6	24.7	26.9
77.5°	16.0	16.9	17.3	17.8	17.3	16.9	17.3
80°	11.3	12.1	11.7	12.1	12.1	12.1	12.6
82.5°	6.9	8.2	7.8	8.2	7.8	8.2	8.2
85°	4.8	5.2	4.3	5.2	4.8	4.8	5.6
87.5°	3.0	2.6	2.6	3.0	2.6	3.0	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)