

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: P245936

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245936
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 EC8B20940 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1493.0 lumens
Efficiency: N/A
Efficacy: 70.1 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

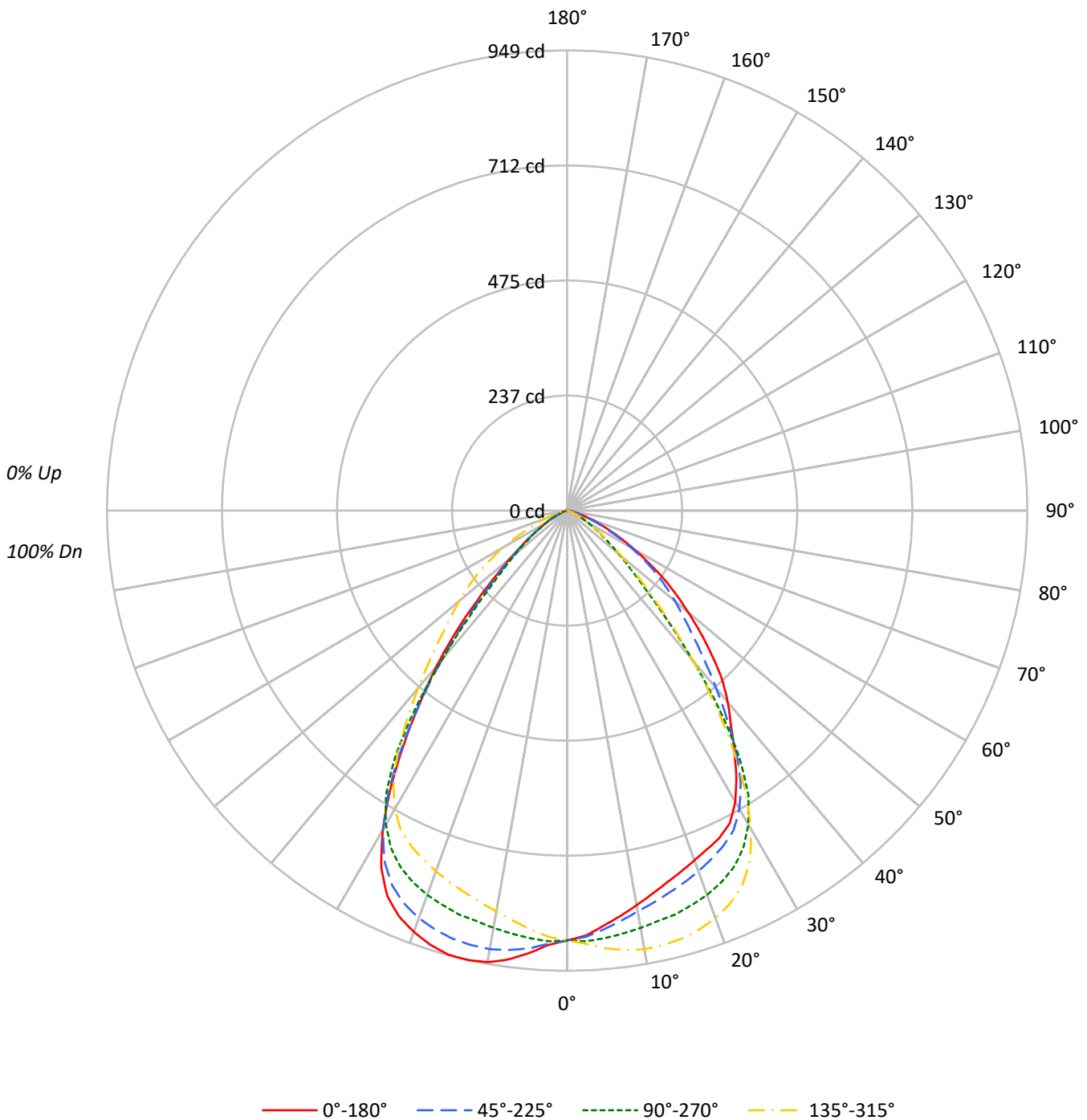
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	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°	27330	27330	27330	27330
5°	26605	27394	28373	27394
10°	25870	27360	29609	27360
15°	25354	27522	30258	27522
20°	25179	27680	30334	27680
25°	25314	27624	29849	27624
30°	24686	26612	27090	26612
35°	22579	23215	22026	23215
40°	20731	16150	16862	16150
45°	18420	9851	11399	9851
50°	15591	6582	7306	6582
55°	12914	4489	4747	4489
60°	9849	2991	3016	2991
65°	6975	1861	1707	1861
70°	5031	1244	1136	1244
75°	3193	620	512	620
80°	2237	462	391	462
85°	1981	0	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	5.7
10°-20°	244.3	16.4
20°-30°	369.9	24.8
30°-40°	370.8	24.8
40°-50°	232.8	15.6
50°-60°	124.1	8.3
60°-70°	51.0	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°	698.6	46.8
0°-40°	1069.3	71.6
0°-60°	1426.2	95.5
0°-90°	1493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1493.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	886	886	886	886	886	
5°	860	885	917	885	860	81
15°	794	862	948	862	794	225
25°	744	812	877	812	744	341
35°	600	617	585	617	600	376
45°	422	226	261	226	422	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°	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	877.3	876.4	876.0	876.8	877.3	879.0	878.6	879.4	879.4	879.9	880.7
5°	859.5	859.1	859.5	859.5	861.2	863.0	862.5	863.8	864.7	866.9	867.7
7.5°	843.1	843.1	842.6	844.4	845.2	847.8	847.4	849.6	850.9	853.0	856.0
10°	826.2	826.2	826.6	827.9	828.4	832.2	832.2	835.3	837.0	839.2	843.1
12.5°	809.7	809.7	812.3	811.5	813.2	816.2	817.5	820.6	823.2	827.5	831.4
15°	794.2	794.2	795.0	797.2	798.5	802.4	804.5	808.0	811.0	815.4	821.0
17.5°	780.7	780.3	780.7	783.3	785.9	789.4	791.1	795.5	798.5	804.1	809.3
20°	767.3	768.2	768.2	770.4	772.1	776.4	778.1	782.9	786.4	791.6	797.6
22.5°	755.6	755.2	755.2	758.2	759.5	763.4	765.2	769.5	773.4	777.7	783.3
25°	744.0	743.1	744.8	745.3	746.1	750.4	751.7	754.8	758.7	762.6	768.2
27.5°	726.6	725.8	726.2	727.9	729.2	732.7	733.6	736.6	739.6	743.1	747.9
30°	693.3	692.5	692.0	695.1	696.4	698.9	700.2	705.4	706.3	710.2	713.7
32.5°	649.2	648.7	649.6	652.2	653.5	657.0	658.7	661.7	663.9	666.1	669.5
35°	599.8	599.0	599.8	602.4	602.4	605.5	606.8	608.1	607.6	608.1	607.2
37.5°	554.0	553.5	554.0	555.3	554.0	555.3	554.0	551.4	546.6	541.4	536.2
40°	515.0	515.4	512.9	514.6	509.8	509.0	504.2	497.7	488.2	477.8	463.1
42.5°	473.5	472.2	470.4	471.3	467.4	464.4	456.6	448.4	436.2	418.9	401.2
45°	422.4	422.0	421.1	420.7	418.1	415.0	408.5	399.0	385.6	367.9	346.7
47.5°	372.6	371.3	371.3	371.8	368.7	368.3	363.1	354.9	343.2	325.9	303.8
50°	325.0	324.6	325.5	327.2	325.0	324.2	320.7	315.1	304.7	290.0	269.2
52.5°	282.2	281.7	282.6	284.8	283.9	284.8	281.3	277.0	270.1	255.8	237.6
55°	240.2	240.2	240.2	242.8	242.8	242.8	241.1	238.5	232.0	221.6	204.7
57.5°	196.5	196.9	199.5	199.9	199.5	200.4	199.9	197.3	193.0	185.7	172.7
60°	159.7	159.7	161.0	162.3	161.9	162.3	162.3	161.0	156.7	150.6	140.2
62.5°	126.4	127.7	126.8	127.7	129.4	127.7	126.8	125.9	122.9	119.0	110.4
65°	95.6	96.5	96.5	96.9	96.1	96.5	94.8	93.5	91.8	87.4	81.8
67.5°	72.7	72.7	72.7	72.7	72.3	71.8	71.4	70.1	67.1	65.4	59.3
70°	55.8	53.2	53.2	53.2	53.2	53.7	52.4	50.6	49.8	46.7	42.4
72.5°	37.2	38.1	37.2	37.2	36.4	36.8	35.1	34.2	33.3	31.6	29.0
75°	26.8	24.7	25.5	26.0	24.7	25.5	23.8	22.1	22.1	20.8	19.5
77.5°	17.3	16.9	17.3	17.7	17.3	16.9	16.0	15.1	15.1	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°	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	882.0	882.4	882.4	884.2	885.0	885.5	885.5	888.9	887.6	888.5	889.4
5°	869.5	872.1	872.9	872.9	877.7	879.4	881.1	885.0	885.5	888.1	891.1
7.5°	857.3	860.4	862.1	866.0	869.0	872.1	877.3	879.9	882.4	885.9	889.8
10°	845.7	849.1	852.6	855.6	860.4	864.3	867.7	873.8	876.8	881.6	886.8
12.5°	834.4	839.2	842.2	847.4	852.6	856.0	861.2	866.9	871.6	876.4	882.4
15°	824.5	830.1	833.5	839.2	844.8	849.6	855.2	862.1	865.6	871.2	876.8
17.5°	813.6	819.7	824.0	829.2	836.1	841.3	846.1	853.0	857.3	863.4	869.9
20°	802.4	808.4	813.6	818.8	825.8	830.9	836.6	843.5	848.3	854.3	859.5
22.5°	789.0	794.6	800.2	806.3	813.2	817.5	824.0	830.1	835.3	840.9	846.1
25°	771.7	778.6	782.9	788.5	794.2	798.9	805.8	811.9	816.2	821.4	826.2
27.5°	751.3	756.5	760.0	764.7	770.4	774.7	779.9	785.9	790.3	795.0	798.5
30°	716.7	721.5	724.5	727.9	733.6	737.5	741.8	747.4	750.4	753.9	756.9
32.5°	671.2	675.1	676.9	679.5	683.4	687.3	690.7	695.5	696.8	698.9	698.9
35°	605.5	606.3	605.9	606.8	608.5	610.7	613.7	616.7	618.4	618.4	617.2
37.5°	528.4	523.2	517.6	513.3	512.0	511.1	512.9	514.1	515.9	516.7	514.6
40°	448.4	436.7	424.1	412.9	405.1	401.6	400.3	401.2	401.2	404.2	404.2
42.5°	379.6	361.4	342.8	325.9	314.6	306.0	302.1	302.1	302.5	304.7	306.0
45°	322.4	299.5	277.8	259.2	243.7	232.4	227.2	225.9	225.5	226.3	229.4
47.5°	278.7	254.9	232.4	209.5	193.0	181.8	177.0	175.3	173.5	175.3	175.7
50°	244.5	219.9	196.1	173.1	155.8	145.8	139.8	137.2	136.8	136.8	137.6
52.5°	213.4	190.4	166.6	143.3	125.1	115.6	109.9	108.6	106.9	108.6	108.6
55°	183.9	161.0	137.6	115.6	100.4	90.5	85.3	83.5	82.7	84.0	84.0
57.5°	151.9	132.4	110.8	90.9	75.7	68.8	64.9	62.8	62.3	63.2	62.3
60°	124.6	108.2	89.6	71.4	59.7	52.4	49.3	48.5	47.6	48.5	48.5
62.5°	98.7	84.8	69.7	55.8	45.9	40.7	37.2	37.2	36.8	36.8	37.2
65°	73.1	62.3	51.5	39.8	32.0	28.1	25.5	25.5	25.1	25.5	25.1
67.5°	53.2	45.9	37.2	29.0	22.9	20.8	19.0	17.7	18.6	17.7	17.3
70°	39.0	32.9	26.8	22.1	17.7	15.6	14.3	13.8	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°	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	891.5	891.1	892.0	892.0	894.6	894.1	895.4	895.4	894.6	895.0	896.7
5°	894.6	895.9	898.5	900.6	904.5	906.3	908.4	910.6	911.0	912.3	913.6
7.5°	894.6	898.9	901.9	905.8	911.0	914.0	918.8	922.7	924.4	926.6	929.2
10°	892.8	897.2	902.8	907.1	913.6	918.4	923.1	929.2	931.8	935.2	938.7
12.5°	889.4	894.1	900.2	905.8	913.2	917.5	923.6	929.2	933.1	937.8	941.7
15°	884.2	889.8	895.4	901.1	908.8	914.0	919.7	926.2	930.1	935.2	938.7
17.5°	876.0	882.0	887.2	892.4	899.8	905.8	911.0	917.1	921.0	925.3	930.1
20°	866.0	871.6	877.3	881.6	888.9	894.1	899.8	905.4	908.4	909.3	916.6
22.5°	853.5	857.3	861.7	868.6	872.9	877.7	882.9	888.1	891.1	895.9	898.5
25°	832.7	836.6	841.3	844.4	849.6	853.5	858.6	864.3	866.0	869.5	872.1
27.5°	803.7	805.8	808.0	810.6	813.6	815.8	818.8	821.4	823.2	824.9	826.6
30°	757.8	757.8	757.8	756.1	757.4	758.7	759.1	758.7	758.7	758.2	758.2
32.5°	697.2	693.8	689.9	686.4	685.1	683.4	682.5	681.2	679.0	677.7	678.2
35°	615.4	607.6	602.9	598.5	595.1	592.5	591.2	589.9	589.5	587.7	586.0
37.5°	513.3	507.7	504.2	501.6	498.6	496.0	496.4	496.8	498.1	497.3	497.7
40°	405.1	403.8	405.1	402.1	401.2	402.1	404.2	407.3	409.0	410.7	413.7
42.5°	308.1	310.3	313.3	313.3	314.6	316.4	319.0	323.7	326.3	329.3	332.8
45°	232.0	234.6	238.5	239.8	240.6	242.8	245.8	249.7	251.4	254.0	257.1
47.5°	178.7	180.5	182.6	184.8	187.0	187.8	190.9	190.9	193.0	194.8	195.6
50°	139.4	141.1	142.8	144.1	145.0	146.3	147.1	148.4	148.9	149.7	150.2
52.5°	109.1	111.2	111.2	112.1	113.4	114.7	114.3	114.7	115.1	115.1	116.4
55°	85.3	85.3	86.6	86.6	87.4	87.0	87.4	87.4	87.4	87.4	87.9
57.5°	63.6	64.1	65.4	64.5	64.1	64.9	64.1	64.9	64.5	65.4	64.1
60°	48.9	48.9	49.3	49.3	49.8	49.8	49.8	49.3	49.3	48.9	48.9
62.5°	36.8	37.2	37.7	37.2	37.2	37.2	36.8	36.8	36.4	35.9	35.9
65°	24.7	24.2	25.1	24.2	24.7	24.7	24.2	24.7	23.4	23.8	23.4
67.5°	17.7	17.3	16.9	17.3	16.9	16.4	16.4	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°	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	896.3	895.9	896.3	896.7	896.3	895.9	896.3	896.7	895.0	894.6	895.4
5°	915.3	915.3	916.2	916.6	916.2	915.3	915.3	913.6	912.3	911.0	910.6
7.5°	931.8	932.7	933.5	933.9	933.5	932.7	931.8	929.2	926.6	924.4	922.7
10°	941.7	943.0	944.8	945.6	944.8	943.0	941.7	938.7	935.2	931.8	929.2
12.5°	946.1	947.4	949.5	949.1	949.5	947.4	946.1	941.7	937.8	933.1	929.2
15°	943.0	944.8	946.9	947.8	946.9	944.8	943.0	938.7	935.2	930.1	926.2
17.5°	933.5	936.1	937.4	938.7	937.4	936.1	933.5	930.1	925.3	921.0	917.1
20°	920.5	922.3	924.0	924.4	924.0	922.3	920.5	916.6	909.3	908.4	905.4
22.5°	901.9	903.2	907.1	905.8	907.1	903.2	901.9	898.5	895.9	891.1	888.1
25°	875.1	876.4	876.8	877.3	876.8	876.4	875.1	872.1	869.5	866.0	864.3
27.5°	828.8	828.8	829.6	830.1	829.6	828.8	828.8	826.6	824.9	823.2	821.4
30°	758.7	758.7	758.7	760.8	758.7	758.7	758.7	758.2	758.2	758.7	758.7
32.5°	677.7	676.9	676.0	676.9	676.0	676.9	677.7	678.2	677.7	679.0	681.2
35°	586.0	585.6	586.9	585.1	586.9	585.6	586.0	586.0	587.7	589.5	589.9
37.5°	498.1	497.3	499.0	497.3	499.0	497.3	498.1	497.7	497.3	498.1	496.8
40°	414.6	415.5	415.5	418.9	415.5	415.5	414.6	413.7	410.7	409.0	407.3
42.5°	334.5	337.1	336.3	338.9	336.3	337.1	334.5	332.8	329.3	326.3	323.7
45°	258.8	260.5	260.5	261.4	260.5	260.5	258.8	257.1	254.0	251.4	249.7
47.5°	198.6	198.6	198.6	199.1	198.6	198.6	198.6	195.6	194.8	193.0	190.9
50°	151.0	151.5	151.9	152.3	151.9	151.5	151.0	150.2	149.7	148.9	148.4
52.5°	116.0	116.4	115.6	116.4	115.6	116.4	116.0	116.4	115.1	115.1	114.7
55°	87.9	87.4	87.9	88.3	87.9	87.4	87.9	87.9	87.4	87.4	87.4
57.5°	64.5	63.6	63.6	63.6	63.6	63.6	64.5	64.1	65.4	64.5	64.9
60°	48.0	48.5	48.5	48.9	48.5	48.5	48.0	48.9	48.9	49.3	49.3
62.5°	35.5	36.8	35.9	36.8	35.9	36.8	35.5	35.9	35.9	36.4	36.8
65°	22.9	22.9	22.9	23.4	22.9	22.9	22.9	23.4	23.8	23.4	24.7
67.5°	15.6	16.0	16.9	16.4	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°	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	895.4	894.1	894.6	892.0	892.0	891.1	891.5	889.4	888.5	887.6	888.9
5°	908.4	906.3	904.5	900.6	898.5	895.9	894.6	891.1	888.1	885.5	885.0
7.5°	918.8	914.0	911.0	905.8	901.9	898.9	894.6	889.8	885.9	882.4	879.9
10°	923.1	918.4	913.6	907.1	902.8	897.2	892.8	886.8	881.6	876.8	873.8
12.5°	923.6	917.5	913.2	905.8	900.2	894.1	889.4	882.4	876.4	871.6	866.9
15°	919.7	914.0	908.8	901.1	895.4	889.8	884.2	876.8	871.2	865.6	862.1
17.5°	911.0	905.8	899.8	892.4	887.2	882.0	876.0	869.9	863.4	857.3	853.0
20°	899.8	894.1	888.9	881.6	877.3	871.6	866.0	859.5	854.3	848.3	843.5
22.5°	882.9	877.7	872.9	868.6	861.7	857.3	853.5	846.1	840.9	835.3	830.1
25°	858.6	853.5	849.6	844.4	841.3	836.6	832.7	826.2	821.4	816.2	811.9
27.5°	818.8	815.8	813.6	810.6	808.0	805.8	803.7	798.5	795.0	790.3	785.9
30°	759.1	758.7	757.4	756.1	757.8	757.8	757.8	756.9	753.9	750.4	747.4
32.5°	682.5	683.4	685.1	686.4	689.9	693.8	697.2	698.9	698.9	696.8	695.5
35°	591.2	592.5	595.1	598.5	602.9	607.6	615.4	617.2	618.4	618.4	616.7
37.5°	496.4	496.0	498.6	501.6	504.2	507.7	513.3	514.6	516.7	515.9	514.1
40°	404.2	402.1	401.2	402.1	405.1	403.8	405.1	404.2	404.2	401.2	401.2
42.5°	319.0	316.4	314.6	313.3	313.3	310.3	308.1	306.0	304.7	302.5	302.1
45°	245.8	242.8	240.6	239.8	238.5	234.6	232.0	229.4	226.3	225.5	225.9
47.5°	190.9	187.8	187.0	184.8	182.6	180.5	178.7	175.7	175.3	173.5	175.3
50°	147.1	146.3	145.0	144.1	142.8	141.1	139.4	137.6	136.8	136.8	137.2
52.5°	114.3	114.7	113.4	112.1	111.2	111.2	109.1	108.6	108.6	106.9	108.6
55°	87.4	87.0	87.4	86.6	86.6	85.3	85.3	84.0	84.0	82.7	83.5
57.5°	64.1	64.9	64.1	64.5	65.4	64.1	63.6	62.3	63.2	62.3	62.8
60°	49.8	49.8	49.8	49.3	49.3	48.9	48.9	48.5	48.5	47.6	48.5
62.5°	36.8	37.2	37.2	37.2	37.7	37.2	36.8	37.2	36.8	36.8	37.2
65°	24.2	24.7	24.7	24.2	25.1	24.2	24.7	25.1	25.5	25.1	25.5
67.5°	16.4	16.4	16.9	17.3	16.9	17.3	17.7	17.3	17.7	18.6	17.7
70°	12.1	12.6	12.6	12.1	11.7	12.1	11.7	13.0	13.0	13.0	13.8
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°	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	885.5	885.5	885.0	884.2	882.4	882.4	882.0	880.7	879.9	879.4	879.4
5°	881.1	879.4	877.7	872.9	872.9	872.1	869.5	867.7	866.9	864.7	863.8
7.5°	877.3	872.1	869.0	866.0	862.1	860.4	857.3	856.0	853.0	850.9	849.6
10°	867.7	864.3	860.4	855.6	852.6	849.1	845.7	843.1	839.2	837.0	835.3
12.5°	861.2	856.0	852.6	847.4	842.2	839.2	834.4	831.4	827.5	823.2	820.6
15°	855.2	849.6	844.8	839.2	833.5	830.1	824.5	821.0	815.4	811.0	808.0
17.5°	846.1	841.3	836.1	829.2	824.0	819.7	813.6	809.3	804.1	798.5	795.5
20°	836.6	830.9	825.8	818.8	813.6	808.4	802.4	797.6	791.6	786.4	782.9
22.5°	824.0	817.5	813.2	806.3	800.2	794.6	789.0	783.3	777.7	773.4	769.5
25°	805.8	798.9	794.2	788.5	782.9	778.6	771.7	768.2	762.6	758.7	754.8
27.5°	779.9	774.7	770.4	764.7	760.0	756.5	751.3	747.9	743.1	739.6	736.6
30°	741.8	737.5	733.6	727.9	724.5	721.5	716.7	713.7	710.2	706.3	705.4
32.5°	690.7	687.3	683.4	679.5	676.9	675.1	671.2	669.5	666.1	663.9	661.7
35°	613.7	610.7	608.5	606.8	605.9	606.3	605.5	607.2	608.1	607.6	608.1
37.5°	512.9	511.1	512.0	513.3	517.6	523.2	528.4	536.2	541.4	546.6	551.4
40°	400.3	401.6	405.1	412.9	424.1	436.7	448.4	463.1	477.8	488.2	497.7
42.5°	302.1	306.0	314.6	325.9	342.8	361.4	379.6	401.2	418.9	436.2	448.4
45°	227.2	232.4	243.7	259.2	277.8	299.5	322.4	346.7	367.9	385.6	399.0
47.5°	177.0	181.8	193.0	209.5	232.4	254.9	278.7	303.8	325.9	343.2	354.9
50°	139.8	145.8	155.8	173.1	196.1	219.9	244.5	269.2	290.0	304.7	315.1
52.5°	109.9	115.6	125.1	143.3	166.6	190.4	213.4	237.6	255.8	270.1	277.0
55°	85.3	90.5	100.4	115.6	137.6	161.0	183.9	204.7	221.6	232.0	238.5
57.5°	64.9	68.8	75.7	90.9	110.8	132.4	151.9	172.7	185.7	193.0	197.3
60°	49.3	52.4	59.7	71.4	89.6	108.2	124.6	140.2	150.6	156.7	161.0
62.5°	37.2	40.7	45.9	55.8	69.7	84.8	98.7	110.4	119.0	122.9	125.9
65°	25.5	28.1	32.0	39.8	51.5	62.3	73.1	81.8	87.4	91.8	93.5
67.5°	19.0	20.8	22.9	29.0	37.2	45.9	53.2	59.3	65.4	67.1	70.1
70°	14.3	15.6	17.7	22.1	26.8	32.9	39.0	42.4	46.7	49.8	50.6
72.5°	9.1	9.5	11.7	14.3	18.2	22.1	26.0	29.0	31.6	33.3	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	15.1	15.1
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°	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	878.6	879.0	877.3	876.8	876.0	876.4	877.3
5°	862.5	863.0	861.2	859.5	859.5	859.1	859.5
7.5°	847.4	847.8	845.2	844.4	842.6	843.1	843.1
10°	832.2	832.2	828.4	827.9	826.6	826.2	826.2
12.5°	817.5	816.2	813.2	811.5	812.3	809.7	809.7
15°	804.5	802.4	798.5	797.2	795.0	794.2	794.2
17.5°	791.1	789.4	785.9	783.3	780.7	780.3	780.7
20°	778.1	776.4	772.1	770.4	768.2	768.2	767.3
22.5°	765.2	763.4	759.5	758.2	755.2	755.2	755.6
25°	751.7	750.4	746.1	745.3	744.8	743.1	744.0
27.5°	733.6	732.7	729.2	727.9	726.2	725.8	726.6
30°	700.2	698.9	696.4	695.1	692.0	692.5	693.3
32.5°	658.7	657.0	653.5	652.2	649.6	648.7	649.2
35°	606.8	605.5	602.4	602.4	599.8	599.0	599.8
37.5°	554.0	555.3	554.0	555.3	554.0	553.5	554.0
40°	504.2	509.0	509.8	514.6	512.9	515.4	515.0
42.5°	456.6	464.4	467.4	471.3	470.4	472.2	473.5
45°	408.5	415.0	418.1	420.7	421.1	422.0	422.4
47.5°	363.1	368.3	368.7	371.8	371.3	371.3	372.6
50°	320.7	324.2	325.0	327.2	325.5	324.6	325.0
52.5°	281.3	284.8	283.9	284.8	282.6	281.7	282.2
55°	241.1	242.8	242.8	242.8	240.2	240.2	240.2
57.5°	199.9	200.4	199.5	199.9	199.5	196.9	196.5
60°	162.3	162.3	161.9	162.3	161.0	159.7	159.7
62.5°	126.8	127.7	129.4	127.7	126.8	127.7	126.4
65°	94.8	96.5	96.1	96.9	96.5	96.5	95.6
67.5°	71.4	71.8	72.3	72.7	72.7	72.7	72.7
70°	52.4	53.7	53.2	53.2	53.2	53.2	55.8
72.5°	35.1	36.8	36.4	37.2	37.2	38.1	37.2
75°	23.8	25.5	24.7	26.0	25.5	24.7	26.8
77.5°	16.0	16.9	17.3	17.7	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)