

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: P246020

Luminaire Tested: **LSR8B20D010 EC8B20927 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246020
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 EC8B20927 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1699.9 lumens
Efficiency: N/A
Efficacy: 79.8 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

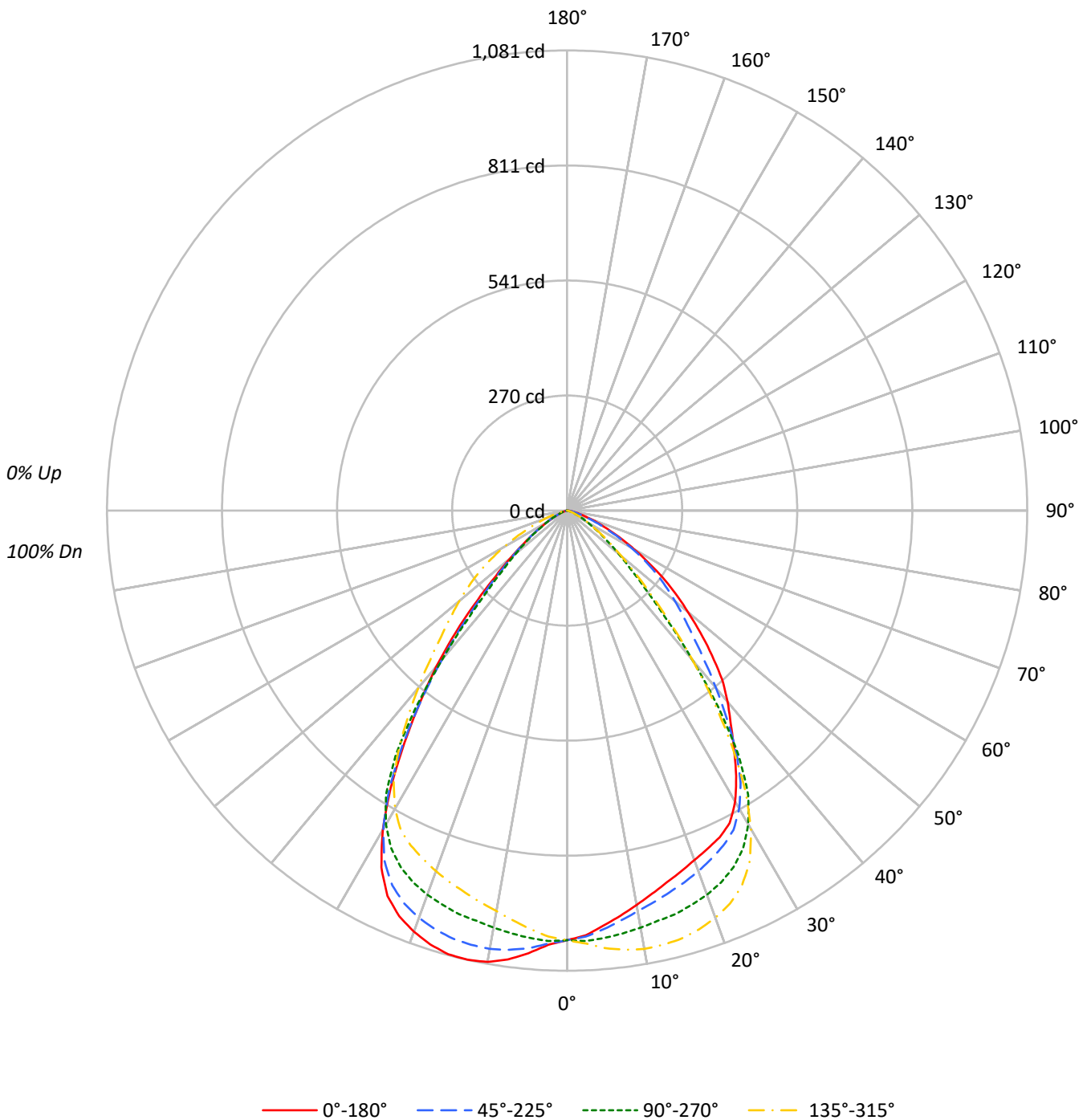
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	96.1	5.7
10°-20°	278.2	16.4
20°-30°	421.2	24.8
30°-40°	422.1	24.8
40°-50°	265.1	15.6
50°-60°	141.3	8.3
60°-70°	58.1	3.4
70°-80°	15.3	0.9
80°-90°	2.6	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°	795.4	46.8
0°-40°	1217.5	71.6
0°-60°	1623.8	95.5
0°-90°	1699.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1009	1009	1009	1009	1009	
5°	979	1008	1044	1008	979	92
15°	904	982	1079	982	904	256
25°	847	924	999	924	847	388
35°	683	702	666	702	683	428
45°	481	257	298	257	481	370
55°	274	95	100	95	274	244
65°	109	29	27	29	109	113
75°	31	6	5	6	31	35
85°	6	0	0	0	6	7
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°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1
2.5°	998.8	997.9	997.3	998.3	998.8	1000.8	1000.4	1001.2	1001.2	1001.8	1002.7
5°	978.6	978.1	978.6	978.6	980.6	982.6	982.0	983.6	984.5	987.0	988.0
7.5°	959.8	959.8	959.4	961.3	962.3	965.4	964.8	967.3	968.7	971.2	974.7
10°	940.7	940.7	941.2	942.6	943.1	947.6	947.6	951.0	953.0	955.5	959.8
12.5°	921.9	921.9	924.9	924.0	925.9	929.4	930.8	934.3	937.2	942.2	946.6
15°	904.2	904.2	905.2	907.6	909.1	913.6	916.0	920.0	923.4	928.4	934.8
17.5°	889.0	888.4	889.0	891.9	894.8	898.8	900.8	905.7	909.1	915.5	921.5
20°	873.7	874.7	874.7	877.0	879.1	884.0	885.9	891.4	895.4	901.2	908.2
22.5°	860.4	859.8	859.8	863.3	864.8	869.2	871.2	876.2	880.5	885.5	891.9
25°	847.0	846.0	848.0	848.5	849.5	854.4	855.9	859.4	863.8	868.3	874.7
27.5°	827.3	826.3	826.9	828.8	830.2	834.2	835.2	838.7	842.1	846.0	851.5
30°	789.4	788.4	787.9	791.3	792.9	795.8	797.3	803.2	804.2	808.6	812.6
32.5°	739.1	738.7	739.7	742.6	744.1	748.0	749.9	753.4	755.9	758.4	762.3
35°	683.0	682.0	683.0	685.9	685.9	689.4	690.9	692.3	691.9	692.3	691.3
37.5°	630.8	630.2	630.8	632.2	630.8	632.2	630.8	627.8	622.4	616.4	610.5
40°	586.4	586.9	583.9	585.9	580.5	579.5	574.1	566.7	555.9	544.1	527.3
42.5°	539.1	537.6	535.6	536.6	532.2	528.8	519.9	510.5	496.7	477.0	456.8
45°	480.9	480.5	479.5	478.9	476.0	472.5	465.2	454.3	439.1	418.8	394.7
47.5°	424.2	422.8	422.8	423.2	419.8	419.3	413.4	404.1	390.7	371.0	345.9
50°	370.0	369.6	370.6	372.5	370.0	369.1	365.2	358.8	347.0	330.2	306.4
52.5°	321.3	320.7	321.8	324.2	323.2	324.2	320.3	315.3	307.5	291.3	270.6
55°	273.5	273.5	273.5	276.4	276.4	276.4	274.5	271.5	264.2	252.3	233.1
57.5°	223.8	224.2	227.1	227.7	227.1	228.2	227.7	224.7	219.8	211.4	196.6
60°	181.8	181.8	183.3	184.8	184.3	184.8	184.8	183.3	178.4	171.5	159.6
62.5°	143.9	145.4	144.3	145.4	147.4	145.4	144.3	143.4	140.0	135.5	125.7
65°	108.9	109.9	109.9	110.4	109.4	109.9	107.9	106.4	104.5	99.6	93.1
67.5°	82.8	82.8	82.8	82.8	82.2	81.8	81.3	79.9	76.4	74.4	67.5
70°	63.6	60.6	60.6	60.6	60.6	61.1	59.6	57.7	56.7	53.2	48.3
72.5°	42.4	43.3	42.4	42.4	41.4	41.8	39.9	38.9	37.9	36.0	33.1
75°	30.6	28.1	29.0	29.6	28.1	29.0	27.1	25.1	25.1	23.6	22.2
77.5°	19.7	19.2	19.7	20.2	19.7	19.2	18.2	17.2	17.2	16.8	15.3
80°	14.3	13.8	13.8	13.8	13.3	13.8	12.8	12.8	11.8	11.4	10.4
82.5°	9.3	9.3	8.9	9.3	8.9	9.3	7.9	7.9	7.9	7.4	6.4
85°	6.4	5.4	5.4	6.0	5.0	6.0	5.4	5.0	4.4	4.4	3.9
87.5°	2.9	3.5	2.9	3.5	2.9	2.9	3.5	2.9	2.9	1.9	1.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1
2.5°	1004.3	1004.7	1004.7	1006.8	1007.7	1008.1	1008.1	1012.2	1010.6	1011.6	1012.6
5°	990.0	992.9	993.9	993.9	999.3	1001.2	1003.3	1007.7	1008.1	1011.2	1014.5
7.5°	976.2	979.5	981.6	986.0	989.4	992.9	998.8	1001.8	1004.7	1008.7	1013.1
10°	962.9	966.8	970.8	974.1	979.5	984.0	988.0	994.8	998.3	1003.7	1009.7
12.5°	950.1	955.5	959.0	964.8	970.8	974.7	980.6	987.0	992.4	997.9	1004.7
15°	938.7	945.1	949.0	955.5	961.9	967.3	973.7	981.6	985.5	991.9	998.3
17.5°	926.3	933.3	938.2	944.1	952.0	957.9	963.3	971.2	976.2	983.0	990.4
20°	913.6	920.5	926.3	932.3	940.2	946.1	952.5	960.4	965.8	972.7	978.6
22.5°	898.3	904.7	911.1	918.0	925.9	930.8	938.2	945.1	951.0	957.4	963.3
25°	878.6	886.5	891.4	897.8	904.2	909.6	917.6	924.4	929.4	935.2	940.7
27.5°	855.4	861.3	865.2	870.8	877.0	882.0	888.0	894.8	899.8	905.2	909.1
30°	816.0	821.5	824.8	828.8	835.2	839.7	844.5	851.0	854.4	858.4	861.9
32.5°	764.2	768.7	770.6	773.7	778.1	782.4	786.5	791.9	793.4	795.8	795.8
35°	689.4	690.3	689.8	690.9	692.8	695.2	698.7	702.2	704.1	704.1	702.7
37.5°	601.6	595.8	589.4	584.4	583.0	582.0	583.9	585.3	587.4	588.4	585.9
40°	510.5	497.2	482.8	470.0	461.2	457.3	455.8	456.8	456.8	460.2	460.2
42.5°	432.1	411.4	390.3	371.0	358.2	348.4	343.9	343.9	344.5	347.0	348.4
45°	367.1	341.0	316.3	295.2	277.4	264.6	258.8	257.2	256.7	257.7	261.1
47.5°	317.4	290.2	264.6	238.5	219.8	207.0	201.6	199.6	197.5	199.6	200.0
50°	278.4	250.3	223.2	197.1	177.4	166.0	159.2	156.2	155.7	155.7	156.7
52.5°	242.9	216.8	189.7	163.1	142.4	131.6	125.2	123.6	121.7	123.6	123.6
55°	209.4	183.3	156.7	131.6	114.3	102.9	97.1	95.1	94.2	95.6	95.6
57.5°	172.9	150.8	126.1	103.5	86.3	78.3	73.9	71.4	71.0	71.9	71.0
60°	141.9	123.2	102.0	81.3	68.1	59.6	56.1	55.2	54.2	55.2	55.2
62.5°	112.4	96.6	79.3	63.6	52.2	46.4	42.4	42.4	41.8	41.8	42.4
65°	83.2	71.0	58.6	45.3	36.4	32.1	29.0	29.0	28.6	29.0	28.6
67.5°	60.6	52.2	42.4	33.1	26.1	23.6	21.7	20.2	21.2	20.2	19.7
70°	44.3	37.5	30.6	25.1	20.2	17.8	16.3	15.8	14.7	14.7	14.7
72.5°	29.6	25.1	20.7	16.3	13.3	10.8	10.4	9.3	8.3	8.9	9.9
75°	19.7	16.8	14.7	11.8	8.9	8.9	6.0	6.0	5.0	6.0	4.4
77.5°	13.8	11.4	8.9	7.4	6.0	5.4	3.9	3.9	3.5	3.5	3.5
80°	9.9	8.3	6.4	5.4	3.9	3.9	3.5	2.9	2.5	2.5	2.9
82.5°	6.0	4.4	4.4	3.9	2.5	1.9	1.5	1.9	1.0	1.0	1.0
85°	3.5	2.9	2.5	1.5	1.0	1.0	0.4	0.0	0.4	0.4	0.0
87.5°	1.9	1.0	1.0	0.4	0.0	0.4	0.4	0.0	0.0	0.0	1.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1
2.5°	1015.1	1014.5	1015.5	1015.5	1018.6	1018.0	1019.5	1019.5	1018.6	1019.0	1020.9
5°	1018.6	1020.0	1023.0	1025.4	1029.8	1031.9	1034.3	1036.8	1037.2	1038.7	1040.2
7.5°	1018.6	1023.4	1026.9	1031.3	1037.2	1040.7	1046.1	1050.5	1052.6	1055.0	1058.0
10°	1016.6	1021.5	1027.9	1032.9	1040.2	1045.6	1051.1	1058.0	1060.9	1064.8	1068.8
12.5°	1012.6	1018.0	1024.9	1031.3	1039.7	1044.7	1051.5	1058.0	1062.3	1067.9	1072.2
15°	1006.8	1013.1	1019.5	1025.9	1034.8	1040.7	1047.1	1054.5	1059.0	1064.8	1068.8
17.5°	997.3	1004.3	1010.1	1016.1	1024.4	1031.3	1037.2	1044.1	1048.6	1053.6	1059.0
20°	986.0	992.4	998.8	1003.7	1012.2	1018.0	1024.4	1030.8	1034.3	1035.3	1043.7
22.5°	971.8	976.2	981.1	989.0	993.9	999.3	1005.2	1011.2	1014.5	1020.0	1023.0
25°	948.0	952.5	957.9	961.3	967.3	971.8	977.6	984.0	986.0	990.0	992.9
27.5°	915.1	917.6	920.0	923.0	926.3	928.8	932.3	935.2	937.2	939.2	941.2
30°	862.8	862.8	862.8	860.8	862.3	863.8	864.3	863.8	863.8	863.3	863.3
32.5°	793.8	789.9	785.5	781.5	780.1	778.1	777.0	775.6	773.1	771.6	772.2
35°	700.6	691.9	686.4	681.5	677.6	674.6	673.1	671.6	671.2	669.2	667.2
37.5°	584.4	578.0	574.1	571.2	567.7	564.8	565.2	565.6	567.1	566.2	566.7
40°	461.2	459.8	461.2	457.8	456.8	457.8	460.2	463.7	465.6	467.7	471.0
42.5°	350.9	353.2	356.7	356.7	358.2	360.2	363.2	368.6	371.5	375.0	378.9
45°	264.2	267.1	271.5	272.9	273.9	276.4	279.9	284.3	286.3	289.2	292.7
47.5°	203.5	205.4	207.9	210.4	212.8	213.9	217.4	217.4	219.8	221.7	222.8
50°	158.6	160.6	162.6	164.1	165.0	166.6	167.5	169.0	169.5	170.4	171.0
52.5°	124.2	126.7	126.7	127.6	129.2	130.6	130.0	130.6	131.1	131.1	132.5
55°	97.1	97.1	98.6	98.6	99.6	99.0	99.6	99.6	99.6	99.6	100.0
57.5°	72.4	72.9	74.4	73.5	72.9	73.9	72.9	73.9	73.5	74.4	72.9
60°	55.7	55.7	56.1	56.1	56.7	56.7	56.7	56.1	56.1	55.7	55.7
62.5°	41.8	42.4	42.9	42.4	42.4	42.4	41.8	41.8	41.4	40.8	40.8
65°	28.1	27.6	28.6	27.6	28.1	28.1	27.6	28.1	26.7	27.1	26.7
67.5°	20.2	19.7	19.2	19.7	19.2	18.7	18.7	19.2	19.7	18.2	18.2
70°	13.3	13.8	13.3	13.8	14.3	14.3	13.8	13.3	13.8	12.8	13.3
72.5°	8.3	8.3	8.3	8.3	8.3	8.9	8.9	8.9	7.9	7.9	7.4
75°	3.9	5.4	4.4	3.9	5.4	5.4	5.0	5.0	4.4	4.4	4.4
77.5°	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.5	2.9	2.5
80°	1.9	1.9	1.9	1.5	1.9	1.9	2.5	1.9	1.9	1.5	2.5
82.5°	1.0	1.0	1.0	0.0	0.4	1.0	1.0	0.4	1.0	1.0	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°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1
2.5°	1020.5	1020.0	1020.5	1020.9	1020.5	1020.0	1020.5	1020.9	1019.0	1018.6	1019.5
5°	1042.2	1042.2	1043.1	1043.7	1043.1	1042.2	1042.2	1040.2	1038.7	1037.2	1036.8
7.5°	1060.9	1061.9	1062.9	1063.4	1062.9	1061.9	1060.9	1058.0	1055.0	1052.6	1050.5
10°	1072.2	1073.7	1075.7	1076.6	1075.7	1073.7	1072.2	1068.8	1064.8	1060.9	1058.0
12.5°	1077.2	1078.6	1081.1	1080.6	1081.1	1078.6	1077.2	1072.2	1067.9	1062.3	1058.0
15°	1073.7	1075.7	1078.1	1079.1	1078.1	1075.7	1073.7	1068.8	1064.8	1059.0	1054.5
17.5°	1062.9	1065.8	1067.3	1068.8	1067.3	1065.8	1062.9	1059.0	1053.6	1048.6	1044.1
20°	1048.0	1050.1	1052.0	1052.6	1052.0	1050.1	1048.0	1043.7	1035.3	1034.3	1030.8
22.5°	1026.9	1028.4	1032.9	1031.3	1032.9	1028.4	1026.9	1023.0	1020.0	1014.5	1011.2
25°	996.3	997.9	998.3	998.8	998.3	997.9	996.3	992.9	990.0	986.0	984.0
27.5°	943.6	943.6	944.6	945.1	944.6	943.6	943.6	941.2	939.2	937.2	935.2
30°	863.8	863.8	863.8	866.2	863.8	863.8	863.8	863.3	863.3	863.8	863.8
32.5°	771.6	770.6	769.7	770.6	769.7	770.6	771.6	772.2	771.6	773.1	775.6
35°	667.2	666.7	668.1	666.2	668.1	666.7	667.2	667.2	669.2	671.2	671.6
37.5°	567.1	566.2	568.1	566.2	568.1	566.2	567.1	566.7	566.2	567.1	565.6
40°	472.0	473.1	473.1	477.0	473.1	473.1	472.0	471.0	467.7	465.6	463.7
42.5°	380.9	383.8	382.8	385.9	382.8	383.8	380.9	378.9	375.0	371.5	368.6
45°	294.6	296.7	296.7	297.7	296.7	296.7	294.6	292.7	289.2	286.3	284.3
47.5°	226.1	226.1	226.1	226.7	226.1	226.1	226.1	222.8	221.7	219.8	217.4
50°	172.0	172.5	172.9	173.5	172.9	172.5	172.0	171.0	170.4	169.5	169.0
52.5°	132.1	132.5	131.6	132.5	131.6	132.5	132.1	132.5	131.1	131.1	130.6
55°	100.0	99.6	100.0	100.5	100.0	99.6	100.0	100.0	99.6	99.6	99.6
57.5°	73.5	72.4	72.4	72.4	72.4	72.4	73.5	72.9	74.4	73.5	73.9
60°	54.7	55.2	55.2	55.7	55.2	55.2	54.7	55.7	55.7	56.1	56.1
62.5°	40.4	41.8	40.8	41.8	40.8	41.8	40.4	40.8	40.8	41.4	41.8
65°	26.1	26.1	26.1	26.7	26.1	26.1	26.1	26.7	27.1	26.7	28.1
67.5°	17.8	18.2	19.2	18.7	19.2	18.2	17.8	18.2	18.2	19.7	19.2
70°	14.3	12.8	12.8	14.3	12.8	12.8	14.3	13.3	12.8	13.8	13.3
72.5°	8.3	7.4	8.3	8.3	8.3	7.4	8.3	7.4	7.9	7.9	8.9
75°	4.4	3.9	3.5	5.0	3.5	3.9	4.4	4.4	4.4	4.4	5.0
77.5°	2.9	2.5	3.5	3.5	3.5	2.5	2.9	2.5	2.9	2.5	2.9
80°	1.5	1.9	1.5	2.5	1.5	1.9	1.5	2.5	1.5	1.9	1.9
82.5°	0.4	1.0	1.0	1.0	1.0	1.0	0.4	0.4	1.0	1.0	0.4
85°	0.0	1.0	0.4	0.4	0.4	1.0	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°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1
2.5°	1019.5	1018.0	1018.6	1015.5	1015.5	1014.5	1015.1	1012.6	1011.6	1010.6	1012.2
5°	1034.3	1031.9	1029.8	1025.4	1023.0	1020.0	1018.6	1014.5	1011.2	1008.1	1007.7
7.5°	1046.1	1040.7	1037.2	1031.3	1026.9	1023.4	1018.6	1013.1	1008.7	1004.7	1001.8
10°	1051.1	1045.6	1040.2	1032.9	1027.9	1021.5	1016.6	1009.7	1003.7	998.3	994.8
12.5°	1051.5	1044.7	1039.7	1031.3	1024.9	1018.0	1012.6	1004.7	997.9	992.4	987.0
15°	1047.1	1040.7	1034.8	1025.9	1019.5	1013.1	1006.8	998.3	991.9	985.5	981.6
17.5°	1037.2	1031.3	1024.4	1016.1	1010.1	1004.3	997.3	990.4	983.0	976.2	971.2
20°	1024.4	1018.0	1012.2	1003.7	998.8	992.4	986.0	978.6	972.7	965.8	960.4
22.5°	1005.2	999.3	993.9	989.0	981.1	976.2	971.8	963.3	957.4	951.0	945.1
25°	977.6	971.8	967.3	961.3	957.9	952.5	948.0	940.7	935.2	929.4	924.4
27.5°	932.3	928.8	926.3	923.0	920.0	917.6	915.1	909.1	905.2	899.8	894.8
30°	864.3	863.8	862.3	860.8	862.8	862.8	862.8	861.9	858.4	854.4	851.0
32.5°	777.0	778.1	780.1	781.5	785.5	789.9	793.8	795.8	795.8	793.4	791.9
35°	673.1	674.6	677.6	681.5	686.4	691.9	700.6	702.7	704.1	704.1	702.2
37.5°	565.2	564.8	567.7	571.2	574.1	578.0	584.4	585.9	588.4	587.4	585.3
40°	460.2	457.8	456.8	457.8	461.2	459.8	461.2	460.2	460.2	456.8	456.8
42.5°	363.2	360.2	358.2	356.7	356.7	353.2	350.9	348.4	347.0	344.5	343.9
45°	279.9	276.4	273.9	272.9	271.5	267.1	264.2	261.1	257.7	256.7	257.2
47.5°	217.4	213.9	212.8	210.4	207.9	205.4	203.5	200.0	199.6	197.5	199.6
50°	167.5	166.6	165.0	164.1	162.6	160.6	158.6	156.7	155.7	155.7	156.2
52.5°	130.0	130.6	129.2	127.6	126.7	126.7	124.2	123.6	123.6	121.7	123.6
55°	99.6	99.0	99.6	98.6	98.6	97.1	97.1	95.6	95.6	94.2	95.1
57.5°	72.9	73.9	72.9	73.5	74.4	72.9	72.4	71.0	71.9	71.0	71.4
60°	56.7	56.7	56.7	56.1	56.1	55.7	55.7	55.2	55.2	54.2	55.2
62.5°	41.8	42.4	42.4	42.4	42.9	42.4	41.8	42.4	41.8	41.8	42.4
65°	27.6	28.1	28.1	27.6	28.6	27.6	28.1	28.6	29.0	28.6	29.0
67.5°	18.7	18.7	19.2	19.7	19.2	19.7	20.2	19.7	20.2	21.2	20.2
70°	13.8	14.3	14.3	13.8	13.3	13.8	13.3	14.7	14.7	14.7	15.8
72.5°	8.9	8.9	8.3	8.3	8.3	8.3	8.3	9.9	8.9	8.3	9.3
75°	5.0	5.4	5.4	3.9	4.4	5.4	3.9	4.4	6.0	5.0	6.0
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.5	3.5	3.5	3.9
80°	2.5	1.9	1.9	1.5	1.9	1.9	1.9	2.9	2.5	2.5	2.9
82.5°	1.0	1.0	0.4	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
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	1.0	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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1
2.5°	1008.1	1008.1	1007.7	1006.8	1004.7	1004.7	1004.3	1002.7	1001.8	1001.2	1001.2
5°	1003.3	1001.2	999.3	993.9	993.9	992.9	990.0	988.0	987.0	984.5	983.6
7.5°	998.8	992.9	989.4	986.0	981.6	979.5	976.2	974.7	971.2	968.7	967.3
10°	988.0	984.0	979.5	974.1	970.8	966.8	962.9	959.8	955.5	953.0	951.0
12.5°	980.6	974.7	970.8	964.8	959.0	955.5	950.1	946.6	942.2	937.2	934.3
15°	973.7	967.3	961.9	955.5	949.0	945.1	938.7	934.8	928.4	923.4	920.0
17.5°	963.3	957.9	952.0	944.1	938.2	933.3	926.3	921.5	915.5	909.1	905.7
20°	952.5	946.1	940.2	932.3	926.3	920.5	913.6	908.2	901.2	895.4	891.4
22.5°	938.2	930.8	925.9	918.0	911.1	904.7	898.3	891.9	885.5	880.5	876.2
25°	917.6	909.6	904.2	897.8	891.4	886.5	878.6	874.7	868.3	863.8	859.4
27.5°	888.0	882.0	877.0	870.8	865.2	861.3	855.4	851.5	846.0	842.1	838.7
30°	844.5	839.7	835.2	828.8	824.8	821.5	816.0	812.6	808.6	804.2	803.2
32.5°	786.5	782.4	778.1	773.7	770.6	768.7	764.2	762.3	758.4	755.9	753.4
35°	698.7	695.2	692.8	690.9	689.8	690.3	689.4	691.3	692.3	691.9	692.3
37.5°	583.9	582.0	583.0	584.4	589.4	595.8	601.6	610.5	616.4	622.4	627.8
40°	455.8	457.3	461.2	470.0	482.8	497.2	510.5	527.3	544.1	555.9	566.7
42.5°	343.9	348.4	358.2	371.0	390.3	411.4	432.1	456.8	477.0	496.7	510.5
45°	258.8	264.6	277.4	295.2	316.3	341.0	367.1	394.7	418.8	439.1	454.3
47.5°	201.6	207.0	219.8	238.5	264.6	290.2	317.4	345.9	371.0	390.7	404.1
50°	159.2	166.0	177.4	197.1	223.2	250.3	278.4	306.4	330.2	347.0	358.8
52.5°	125.2	131.6	142.4	163.1	189.7	216.8	242.9	270.6	291.3	307.5	315.3
55°	97.1	102.9	114.3	131.6	156.7	183.3	209.4	233.1	252.3	264.2	271.5
57.5°	73.9	78.3	86.3	103.5	126.1	150.8	172.9	196.6	211.4	219.8	224.7
60°	56.1	59.6	68.1	81.3	102.0	123.2	141.9	159.6	171.5	178.4	183.3
62.5°	42.4	46.4	52.2	63.6	79.3	96.6	112.4	125.7	135.5	140.0	143.4
65°	29.0	32.1	36.4	45.3	58.6	71.0	83.2	93.1	99.6	104.5	106.4
67.5°	21.7	23.6	26.1	33.1	42.4	52.2	60.6	67.5	74.4	76.4	79.9
70°	16.3	17.8	20.2	25.1	30.6	37.5	44.3	48.3	53.2	56.7	57.7
72.5°	10.4	10.8	13.3	16.3	20.7	25.1	29.6	33.1	36.0	37.9	38.9
75°	6.0	8.9	8.9	11.8	14.7	16.8	19.7	22.2	23.6	25.1	25.1
77.5°	3.9	5.4	6.0	7.4	8.9	11.4	13.8	15.3	16.8	17.2	17.2
80°	3.5	3.9	3.9	5.4	6.4	8.3	9.9	10.4	11.4	11.8	12.8
82.5°	1.5	1.9	2.5	3.9	4.4	4.4	6.0	6.4	7.4	7.9	7.9
85°	0.4	1.0	1.0	1.5	2.5	2.9	3.5	3.9	4.4	4.4	5.0
87.5°	0.4	0.4	0.0	0.4	1.0	1.0	1.9	1.9	1.9	2.9	2.9
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):

	330°	335°	340°	345°	350°	355°	360°
0°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1
2.5°	1000.4	1000.8	998.8	998.3	997.3	997.9	998.8
5°	982.0	982.6	980.6	978.6	978.6	978.1	978.6
7.5°	964.8	965.4	962.3	961.3	959.4	959.8	959.8
10°	947.6	947.6	943.1	942.6	941.2	940.7	940.7
12.5°	930.8	929.4	925.9	924.0	924.9	921.9	921.9
15°	916.0	913.6	909.1	907.6	905.2	904.2	904.2
17.5°	900.8	898.8	894.8	891.9	889.0	888.4	889.0
20°	885.9	884.0	879.1	877.0	874.7	874.7	873.7
22.5°	871.2	869.2	864.8	863.3	859.8	859.8	860.4
25°	855.9	854.4	849.5	848.5	848.0	846.0	847.0
27.5°	835.2	834.2	830.2	828.8	826.9	826.3	827.3
30°	797.3	795.8	792.9	791.3	787.9	788.4	789.4
32.5°	749.9	748.0	744.1	742.6	739.7	738.7	739.1
35°	690.9	689.4	685.9	685.9	683.0	682.0	683.0
37.5°	630.8	632.2	630.8	632.2	630.8	630.2	630.8
40°	574.1	579.5	580.5	585.9	583.9	586.9	586.4
42.5°	519.9	528.8	532.2	536.6	535.6	537.6	539.1
45°	465.2	472.5	476.0	478.9	479.5	480.5	480.9
47.5°	413.4	419.3	419.8	423.2	422.8	422.8	424.2
50°	365.2	369.1	370.0	372.5	370.6	369.6	370.0
52.5°	320.3	324.2	323.2	324.2	321.8	320.7	321.3
55°	274.5	276.4	276.4	276.4	273.5	273.5	273.5
57.5°	227.7	228.2	227.1	227.7	227.1	224.2	223.8
60°	184.8	184.8	184.3	184.8	183.3	181.8	181.8
62.5°	144.3	145.4	147.4	145.4	144.3	145.4	143.9
65°	107.9	109.9	109.4	110.4	109.9	109.9	108.9
67.5°	81.3	81.8	82.2	82.8	82.8	82.8	82.8
70°	59.6	61.1	60.6	60.6	60.6	60.6	63.6
72.5°	39.9	41.8	41.4	42.4	42.4	43.3	42.4
75°	27.1	29.0	28.1	29.6	29.0	28.1	30.6
77.5°	18.2	19.2	19.7	20.2	19.7	19.2	19.7
80°	12.8	13.8	13.3	13.8	13.8	13.8	14.3
82.5°	7.9	9.3	8.9	9.3	8.9	9.3	9.3
85°	5.4	6.0	5.0	6.0	5.4	5.4	6.4
87.5°	3.5	2.9	2.9	3.5	2.9	3.5	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)