

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: P244586

Luminaire Tested: **LSR8B20D010 EC8B209730 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244586
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1616.0 lumens
Efficiency: N/A
Efficacy: 75.9 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

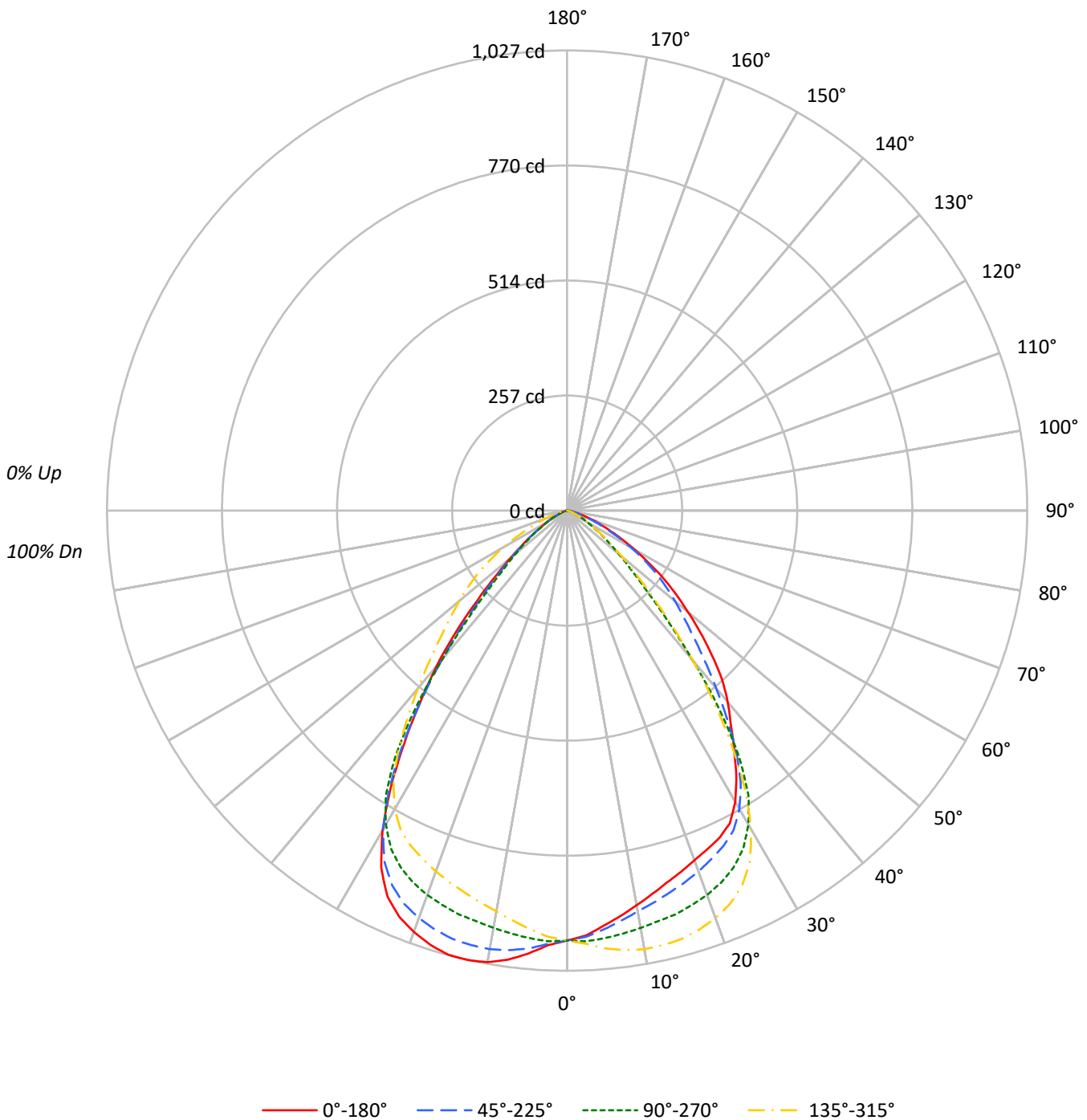
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	91.3	5.7
10°-20°	264.4	16.4
20°-30°	400.4	24.8
30°-40°	401.3	24.8
40°-50°	252.0	15.6
50°-60°	134.3	8.3
60°-70°	55.2	3.4
70°-80°	14.6	0.9
80°-90°	2.5	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°	756.1	46.8
0°-40°	1157.4	71.6
0°-60°	1543.7	95.5
0°-90°	1616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1616.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	959	959	959	959	959	
5°	930	958	992	958	930	88
15°	860	933	1026	933	860	243
25°	805	879	950	879	805	369
35°	649	668	633	668	649	407
45°	457	244	283	244	457	352
55°	260	90	96	90	260	232
65°	104	28	25	28	104	107
75°	29	6	5	6	29	33
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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	949.5	948.6	948.1	949.1	949.5	951.4	950.9	951.9	951.9	952.3	953.3
5°	930.3	929.8	930.3	930.3	932.2	934.1	933.6	935.0	935.9	938.3	939.2
7.5°	912.5	912.5	912.1	913.9	914.9	917.7	917.2	919.6	921.0	923.3	926.6
10°	894.3	894.3	894.7	896.1	896.6	900.8	900.8	904.1	906.0	908.3	912.5
12.5°	876.5	876.5	879.3	878.3	880.2	883.5	884.9	888.2	891.0	895.7	899.9
15°	859.6	859.6	860.5	862.9	864.3	868.5	870.8	874.6	877.9	882.6	888.6
17.5°	845.1	844.6	845.1	847.9	850.7	854.4	856.3	861.0	864.3	870.4	876.0
20°	830.5	831.5	831.5	833.8	835.7	840.4	842.3	847.4	851.2	856.8	863.3
22.5°	817.9	817.4	817.4	820.7	822.1	826.3	828.2	832.9	837.1	841.8	847.9
25°	805.3	804.3	806.2	806.7	807.6	812.3	813.7	817.0	821.2	825.4	831.5
27.5°	786.5	785.6	786.0	787.9	789.3	793.1	794.0	797.3	800.6	804.3	809.5
30°	750.4	749.5	749.0	752.3	753.7	756.5	757.9	763.6	764.5	768.7	772.5
32.5°	702.7	702.2	703.1	705.9	707.3	711.1	713.0	716.2	718.6	720.9	724.7
35°	649.3	648.3	649.3	652.1	652.1	655.4	656.8	658.2	657.7	658.2	657.2
37.5°	599.6	599.1	599.6	601.0	599.6	601.0	599.6	596.8	591.7	586.0	580.4
40°	557.4	557.9	555.1	557.0	551.8	550.9	545.7	538.7	528.4	517.2	501.2
42.5°	512.5	511.1	509.2	510.1	505.9	502.6	494.2	485.3	472.2	453.5	434.2
45°	457.2	456.7	455.8	455.3	452.5	449.2	442.2	431.9	417.4	398.2	375.2
47.5°	403.3	401.9	401.9	402.4	399.1	398.6	393.0	384.1	371.5	352.7	328.8
50°	351.8	351.3	352.3	354.1	351.8	350.9	347.1	341.0	329.8	313.9	291.4
52.5°	305.4	305.0	305.9	308.2	307.3	308.2	304.5	299.8	292.3	276.8	257.2
55°	260.0	260.0	260.0	262.8	262.8	262.8	260.9	258.1	251.1	239.8	221.6
57.5°	212.7	213.1	216.0	216.4	216.0	216.9	216.4	213.6	208.9	201.0	186.9
60°	172.9	172.9	174.3	175.7	175.2	175.7	175.7	174.3	169.6	163.0	151.8
62.5°	136.8	138.2	137.2	138.2	140.1	138.2	137.2	136.3	133.0	128.8	119.4
65°	103.5	104.5	104.5	104.9	104.0	104.5	102.6	101.2	99.3	94.6	88.5
67.5°	78.7	78.7	78.7	78.7	78.2	77.8	77.3	75.9	72.6	70.7	64.2
70°	60.4	57.6	57.6	57.6	57.6	58.1	56.7	54.8	53.9	50.6	45.9
72.5°	40.3	41.2	40.3	40.3	39.4	39.8	37.9	37.0	36.1	34.2	31.4
75°	29.0	26.7	27.6	28.1	26.7	27.6	25.8	23.9	23.9	22.5	21.1
77.5°	18.7	18.3	18.7	19.2	18.7	18.3	17.3	16.4	16.4	15.9	14.5
80°	13.6	13.1	13.1	13.1	12.6	13.1	12.2	12.2	11.2	10.8	9.8
82.5°	8.9	8.9	8.4	8.9	8.4	8.9	7.5	7.5	7.5	7.0	6.1
85°	6.1	5.1	5.1	5.6	4.7	5.6	5.1	4.7	4.2	4.2	3.7
87.5°	2.8	3.3	2.8	3.3	2.8	2.8	3.3	2.8	2.8	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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	954.7	955.1	955.1	957.0	958.0	958.4	958.4	962.2	960.8	961.7	962.6
5°	941.1	943.9	944.8	944.8	950.0	951.9	953.7	958.0	958.4	961.2	964.5
7.5°	928.0	931.3	933.1	937.3	940.6	943.9	949.5	952.3	955.1	958.9	963.1
10°	915.3	919.1	922.8	926.1	931.3	935.5	939.2	945.8	949.1	954.2	959.8
12.5°	903.2	908.3	911.6	917.2	922.8	926.6	932.2	938.3	943.4	948.6	955.1
15°	892.4	898.5	902.2	908.3	914.4	919.6	925.6	933.1	936.9	943.0	949.1
17.5°	880.7	887.2	891.9	897.5	905.0	910.6	915.8	923.3	928.0	934.5	941.6
20°	868.5	875.1	880.7	886.3	893.8	899.4	905.5	913.0	918.1	924.7	930.3
22.5°	854.0	860.1	866.1	872.7	880.2	884.9	891.9	898.5	904.1	910.2	915.8
25°	835.2	842.7	847.4	853.5	859.6	864.7	872.2	878.8	883.5	889.1	894.3
27.5°	813.2	818.8	822.6	827.7	833.8	838.5	844.1	850.7	855.4	860.5	864.3
30°	775.7	780.9	784.2	787.9	794.0	798.2	802.9	809.0	812.3	816.0	819.3
32.5°	726.5	730.8	732.6	735.5	739.7	743.9	747.6	752.8	754.2	756.5	756.5
35°	655.4	656.3	655.8	656.8	658.6	661.0	664.2	667.5	669.4	669.4	668.0
37.5°	572.0	566.4	560.3	555.6	554.2	553.2	555.1	556.5	558.4	559.3	557.0
40°	485.3	472.7	459.1	446.9	438.5	434.7	433.3	434.2	434.2	437.5	437.5
42.5°	410.8	391.1	371.0	352.7	340.5	331.2	327.0	327.0	327.4	329.8	331.2
45°	349.0	324.2	300.7	280.6	263.7	251.5	245.9	244.5	244.1	245.0	248.3
47.5°	301.7	275.9	251.5	226.7	208.9	196.7	191.6	189.7	187.8	189.7	190.2
50°	264.7	238.0	212.2	187.4	168.6	157.9	151.3	148.5	148.0	148.0	149.0
52.5°	230.9	206.1	180.4	155.1	135.4	125.1	119.0	117.6	115.7	117.6	117.6
55°	199.1	174.3	149.0	125.1	108.7	97.9	92.3	90.4	89.5	90.9	90.9
57.5°	164.4	143.3	119.9	98.4	82.0	74.5	70.3	67.9	67.4	68.4	67.4
60°	134.9	117.1	97.0	77.3	64.7	56.7	53.4	52.5	51.5	52.5	52.5
62.5°	106.8	91.8	75.4	60.4	49.6	44.0	40.3	40.3	39.8	39.8	40.3
65°	79.2	67.4	55.7	43.1	34.7	30.4	27.6	27.6	27.2	27.6	27.2
67.5°	57.6	49.6	40.3	31.4	24.8	22.5	20.6	19.2	20.1	19.2	18.7
70°	42.2	35.6	29.0	23.9	19.2	16.9	15.5	15.0	14.1	14.1	14.1
72.5°	28.1	23.9	19.7	15.5	12.6	10.3	9.8	8.9	8.0	8.4	9.4
75°	18.7	15.9	14.1	11.2	8.4	8.4	5.6	5.6	4.7	5.6	4.2
77.5°	13.1	10.8	8.4	7.0	5.6	5.1	3.7	3.7	3.3	3.3	3.3
80°	9.4	8.0	6.1	5.1	3.7	3.7	3.3	2.8	2.3	2.3	2.8
82.5°	5.6	4.2	4.2	3.7	2.3	1.9	1.4	1.9	0.9	0.9	0.9
85°	3.3	2.8	2.3	1.4	0.9	0.9	0.5	0.0	0.5	0.5	0.0
87.5°	1.9	0.9	0.9	0.5	0.0	0.5	0.5	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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	965.0	964.5	965.5	965.5	968.3	967.8	969.2	969.2	968.3	968.7	970.6
5°	968.3	969.7	972.5	974.8	979.0	980.9	983.3	985.6	986.1	987.5	988.9
7.5°	968.3	973.0	976.2	980.4	986.1	989.4	994.5	998.7	1000.6	1002.9	1005.7
10°	966.4	971.1	977.2	981.9	988.9	994.0	999.2	1005.7	1008.6	1012.3	1016.1
12.5°	962.6	967.8	974.3	980.4	988.4	993.1	999.6	1005.7	1010.0	1015.1	1019.3
15°	957.0	963.1	969.2	975.3	983.7	989.4	995.4	1002.5	1006.7	1012.3	1016.1
17.5°	948.1	954.7	960.3	965.9	973.9	980.4	986.1	992.6	996.9	1001.5	1006.7
20°	937.3	943.4	949.5	954.2	962.2	967.8	973.9	980.0	983.3	984.2	992.2
22.5°	923.8	928.0	932.7	940.2	944.8	950.0	955.6	961.2	964.5	969.7	972.5
25°	901.3	905.5	910.6	913.9	919.6	923.8	929.4	935.5	937.3	941.1	943.9
27.5°	869.9	872.2	874.6	877.4	880.7	883.0	886.3	889.1	891.0	892.8	894.7
30°	820.2	820.2	820.2	818.4	819.8	821.2	821.6	821.2	821.2	820.7	820.7
32.5°	754.7	750.9	746.7	743.0	741.5	739.7	738.7	737.3	735.0	733.6	734.0
35°	666.1	657.7	652.5	647.9	644.1	641.3	639.9	638.5	638.0	636.2	634.3
37.5°	555.6	549.5	545.7	542.9	539.6	536.8	537.3	537.8	539.2	538.2	538.7
40°	438.5	437.1	438.5	435.2	434.2	435.2	437.5	440.8	442.7	444.6	447.8
42.5°	333.5	335.9	339.2	339.2	340.5	342.4	345.2	350.4	353.2	356.5	360.2
45°	251.1	253.9	258.1	259.5	260.5	262.8	266.1	270.3	272.2	275.0	278.3
47.5°	193.5	195.3	197.7	200.0	202.4	203.3	206.6	206.6	208.9	210.8	211.7
50°	150.8	152.7	154.6	156.0	156.9	158.3	159.3	160.7	161.1	162.1	162.5
52.5°	118.0	120.4	120.4	121.3	122.7	124.1	123.7	124.1	124.6	124.6	126.0
55°	92.3	92.3	93.7	93.7	94.6	94.2	94.6	94.6	94.6	94.6	95.1
57.5°	68.9	69.3	70.7	69.8	69.3	70.3	69.3	70.3	69.8	70.7	69.3
60°	52.9	52.9	53.4	53.4	53.9	53.9	53.9	53.4	53.4	52.9	52.9
62.5°	39.8	40.3	40.8	40.3	40.3	40.3	39.8	39.8	39.4	38.9	38.9
65°	26.7	26.2	27.2	26.2	26.7	26.7	26.2	26.7	25.3	25.8	25.3
67.5°	19.2	18.7	18.3	18.7	18.3	17.8	17.8	18.3	18.7	17.3	17.3
70°	12.6	13.1	12.6	13.1	13.6	13.6	13.1	12.6	13.1	12.2	12.6
72.5°	8.0	8.0	8.0	8.0	8.0	8.4	8.4	8.4	7.5	7.5	7.0
75°	3.7	5.1	4.2	3.7	5.1	5.1	4.7	4.7	4.2	4.2	4.2
77.5°	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.3	2.8	2.3
80°	1.9	1.9	1.9	1.4	1.9	1.9	2.3	1.9	1.9	1.4	2.3
82.5°	0.9	0.9	0.9	0.0	0.5	0.9	0.9	0.5	0.9	0.9	0.5
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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	970.1	969.7	970.1	970.6	970.1	969.7	970.1	970.6	968.7	968.3	969.2
5°	990.8	990.8	991.7	992.2	991.7	990.8	990.8	988.9	987.5	986.1	985.6
7.5°	1008.6	1009.5	1010.4	1010.9	1010.4	1009.5	1008.6	1005.7	1002.9	1000.6	998.7
10°	1019.3	1020.7	1022.6	1023.5	1022.6	1020.7	1019.3	1016.1	1012.3	1008.6	1005.7
12.5°	1024.0	1025.4	1027.8	1027.3	1027.8	1025.4	1024.0	1019.3	1015.1	1010.0	1005.7
15°	1020.7	1022.6	1024.9	1025.9	1024.9	1022.6	1020.7	1016.1	1012.3	1006.7	1002.5
17.5°	1010.4	1013.2	1014.6	1016.1	1014.6	1013.2	1010.4	1006.7	1001.5	996.9	992.6
20°	996.4	998.3	1000.1	1000.6	1000.1	998.3	996.4	992.2	984.2	983.3	980.0
22.5°	976.2	977.6	981.9	980.4	981.9	977.6	976.2	972.5	969.7	964.5	961.2
25°	947.2	948.6	949.1	949.5	949.1	948.6	947.2	943.9	941.1	937.3	935.5
27.5°	897.1	897.1	898.0	898.5	898.0	897.1	897.1	894.7	892.8	891.0	889.1
30°	821.2	821.2	821.2	823.5	821.2	821.2	821.2	820.7	820.7	821.2	821.2
32.5°	733.6	732.6	731.7	732.6	731.7	732.6	733.6	734.0	733.6	735.0	737.3
35°	634.3	633.8	635.2	633.3	635.2	633.8	634.3	634.3	636.2	638.0	638.5
37.5°	539.2	538.2	540.1	538.2	540.1	538.2	539.2	538.7	538.2	539.2	537.8
40°	448.8	449.7	449.7	453.5	449.7	449.7	448.8	447.8	444.6	442.7	440.8
42.5°	362.1	364.9	364.0	366.8	364.0	364.9	362.1	360.2	356.5	353.2	350.4
45°	280.1	282.0	282.0	282.9	282.0	282.0	280.1	278.3	275.0	272.2	270.3
47.5°	215.0	215.0	215.0	215.5	215.0	215.0	215.0	211.7	210.8	208.9	206.6
50°	163.5	164.0	164.4	164.9	164.4	164.0	163.5	162.5	162.1	161.1	160.7
52.5°	125.5	126.0	125.1	126.0	125.1	126.0	125.5	126.0	124.6	124.6	124.1
55°	95.1	94.6	95.1	95.6	95.1	94.6	95.1	95.1	94.6	94.6	94.6
57.5°	69.8	68.9	68.9	68.9	68.9	68.9	69.8	69.3	70.7	69.8	70.3
60°	52.0	52.5	52.5	52.9	52.5	52.5	52.0	52.9	52.9	53.4	53.4
62.5°	38.4	39.8	38.9	39.8	38.9	39.8	38.4	38.9	38.9	39.4	39.8
65°	24.8	24.8	24.8	25.3	24.8	24.8	24.8	25.3	25.8	25.3	26.7
67.5°	16.9	17.3	18.3	17.8	18.3	17.3	16.9	17.3	17.3	18.7	18.3
70°	13.6	12.2	12.2	13.6	12.2	12.2	13.6	12.6	12.2	13.1	12.6
72.5°	8.0	7.0	8.0	8.0	8.0	7.0	8.0	7.0	7.5	7.5	8.4
75°	4.2	3.7	3.3	4.7	3.3	3.7	4.2	4.2	4.2	4.2	4.7
77.5°	2.8	2.3	3.3	3.3	3.3	2.3	2.8	2.3	2.8	2.3	2.8
80°	1.4	1.9	1.4	2.3	1.4	1.9	1.4	2.3	1.4	1.9	1.9
82.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.9	0.9	0.5
85°	0.0	0.9	0.5	0.5	0.5	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.5	0.0	0.0	0.5	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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	969.2	967.8	968.3	965.5	965.5	964.5	965.0	962.6	961.7	960.8	962.2
5°	983.3	980.9	979.0	974.8	972.5	969.7	968.3	964.5	961.2	958.4	958.0
7.5°	994.5	989.4	986.1	980.4	976.2	973.0	968.3	963.1	958.9	955.1	952.3
10°	999.2	994.0	988.9	981.9	977.2	971.1	966.4	959.8	954.2	949.1	945.8
12.5°	999.6	993.1	988.4	980.4	974.3	967.8	962.6	955.1	948.6	943.4	938.3
15°	995.4	989.4	983.7	975.3	969.2	963.1	957.0	949.1	943.0	936.9	933.1
17.5°	986.1	980.4	973.9	965.9	960.3	954.7	948.1	941.6	934.5	928.0	923.3
20°	973.9	967.8	962.2	954.2	949.5	943.4	937.3	930.3	924.7	918.1	913.0
22.5°	955.6	950.0	944.8	940.2	932.7	928.0	923.8	915.8	910.2	904.1	898.5
25°	929.4	923.8	919.6	913.9	910.6	905.5	901.3	894.3	889.1	883.5	878.8
27.5°	886.3	883.0	880.7	877.4	874.6	872.2	869.9	864.3	860.5	855.4	850.7
30°	821.6	821.2	819.8	818.4	820.2	820.2	820.2	819.3	816.0	812.3	809.0
32.5°	738.7	739.7	741.5	743.0	746.7	750.9	754.7	756.5	756.5	754.2	752.8
35°	639.9	641.3	644.1	647.9	652.5	657.7	666.1	668.0	669.4	669.4	667.5
37.5°	537.3	536.8	539.6	542.9	545.7	549.5	555.6	557.0	559.3	558.4	556.5
40°	437.5	435.2	434.2	435.2	438.5	437.1	438.5	437.5	437.5	434.2	434.2
42.5°	345.2	342.4	340.5	339.2	339.2	335.9	333.5	331.2	329.8	327.4	327.0
45°	266.1	262.8	260.5	259.5	258.1	253.9	251.1	248.3	245.0	244.1	244.5
47.5°	206.6	203.3	202.4	200.0	197.7	195.3	193.5	190.2	189.7	187.8	189.7
50°	159.3	158.3	156.9	156.0	154.6	152.7	150.8	149.0	148.0	148.0	148.5
52.5°	123.7	124.1	122.7	121.3	120.4	120.4	118.0	117.6	117.6	115.7	117.6
55°	94.6	94.2	94.6	93.7	93.7	92.3	92.3	90.9	90.9	89.5	90.4
57.5°	69.3	70.3	69.3	69.8	70.7	69.3	68.9	67.4	68.4	67.4	67.9
60°	53.9	53.9	53.9	53.4	53.4	52.9	52.9	52.5	52.5	51.5	52.5
62.5°	39.8	40.3	40.3	40.3	40.8	40.3	39.8	40.3	39.8	39.8	40.3
65°	26.2	26.7	26.7	26.2	27.2	26.2	26.7	27.2	27.6	27.2	27.6
67.5°	17.8	17.8	18.3	18.7	18.3	18.7	19.2	18.7	19.2	20.1	19.2
70°	13.1	13.6	13.6	13.1	12.6	13.1	12.6	14.1	14.1	14.1	15.0
72.5°	8.4	8.4	8.0	8.0	8.0	8.0	8.0	9.4	8.4	8.0	8.9
75°	4.7	5.1	5.1	3.7	4.2	5.1	3.7	4.2	5.6	4.7	5.6
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.3	3.3	3.3	3.7
80°	2.3	1.9	1.9	1.4	1.9	1.9	1.9	2.8	2.3	2.3	2.8
82.5°	0.9	0.9	0.5	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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°	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	958.4	958.4	958.0	957.0	955.1	955.1	954.7	953.3	952.3	951.9	951.9
5°	953.7	951.9	950.0	944.8	944.8	943.9	941.1	939.2	938.3	935.9	935.0
7.5°	949.5	943.9	940.6	937.3	933.1	931.3	928.0	926.6	923.3	921.0	919.6
10°	939.2	935.5	931.3	926.1	922.8	919.1	915.3	912.5	908.3	906.0	904.1
12.5°	932.2	926.6	922.8	917.2	911.6	908.3	903.2	899.9	895.7	891.0	888.2
15°	925.6	919.6	914.4	908.3	902.2	898.5	892.4	888.6	882.6	877.9	874.6
17.5°	915.8	910.6	905.0	897.5	891.9	887.2	880.7	876.0	870.4	864.3	861.0
20°	905.5	899.4	893.8	886.3	880.7	875.1	868.5	863.3	856.8	851.2	847.4
22.5°	891.9	884.9	880.2	872.7	866.1	860.1	854.0	847.9	841.8	837.1	832.9
25°	872.2	864.7	859.6	853.5	847.4	842.7	835.2	831.5	825.4	821.2	817.0
27.5°	844.1	838.5	833.8	827.7	822.6	818.8	813.2	809.5	804.3	800.6	797.3
30°	802.9	798.2	794.0	787.9	784.2	780.9	775.7	772.5	768.7	764.5	763.6
32.5°	747.6	743.9	739.7	735.5	732.6	730.8	726.5	724.7	720.9	718.6	716.2
35°	664.2	661.0	658.6	656.8	655.8	656.3	655.4	657.2	658.2	657.7	658.2
37.5°	555.1	553.2	554.2	555.6	560.3	566.4	572.0	580.4	586.0	591.7	596.8
40°	433.3	434.7	438.5	446.9	459.1	472.7	485.3	501.2	517.2	528.4	538.7
42.5°	327.0	331.2	340.5	352.7	371.0	391.1	410.8	434.2	453.5	472.2	485.3
45°	245.9	251.5	263.7	280.6	300.7	324.2	349.0	375.2	398.2	417.4	431.9
47.5°	191.6	196.7	208.9	226.7	251.5	275.9	301.7	328.8	352.7	371.5	384.1
50°	151.3	157.9	168.6	187.4	212.2	238.0	264.7	291.4	313.9	329.8	341.0
52.5°	119.0	125.1	135.4	155.1	180.4	206.1	230.9	257.2	276.8	292.3	299.8
55°	92.3	97.9	108.7	125.1	149.0	174.3	199.1	221.6	239.8	251.1	258.1
57.5°	70.3	74.5	82.0	98.4	119.9	143.3	164.4	186.9	201.0	208.9	213.6
60°	53.4	56.7	64.7	77.3	97.0	117.1	134.9	151.8	163.0	169.6	174.3
62.5°	40.3	44.0	49.6	60.4	75.4	91.8	106.8	119.4	128.8	133.0	136.3
65°	27.6	30.4	34.7	43.1	55.7	67.4	79.2	88.5	94.6	99.3	101.2
67.5°	20.6	22.5	24.8	31.4	40.3	49.6	57.6	64.2	70.7	72.6	75.9
70°	15.5	16.9	19.2	23.9	29.0	35.6	42.2	45.9	50.6	53.9	54.8
72.5°	9.8	10.3	12.6	15.5	19.7	23.9	28.1	31.4	34.2	36.1	37.0
75°	5.6	8.4	8.4	11.2	14.1	15.9	18.7	21.1	22.5	23.9	23.9
77.5°	3.7	5.1	5.6	7.0	8.4	10.8	13.1	14.5	15.9	16.4	16.4
80°	3.3	3.7	3.7	5.1	6.1	8.0	9.4	9.8	10.8	11.2	12.2
82.5°	1.4	1.9	2.3	3.7	4.2	4.2	5.6	6.1	7.0	7.5	7.5
85°	0.5	0.9	0.9	1.4	2.3	2.8	3.3	3.7	4.2	4.2	4.7
87.5°	0.5	0.5	0.0	0.5	0.9	0.9	1.9	1.9	1.9	2.8	2.8
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):

	330°	335°	340°	345°	350°	355°	360°
0°	959.4	959.4	959.4	959.4	959.4	959.4	959.4
2.5°	950.9	951.4	949.5	949.1	948.1	948.6	949.5
5°	933.6	934.1	932.2	930.3	930.3	929.8	930.3
7.5°	917.2	917.7	914.9	913.9	912.1	912.5	912.5
10°	900.8	900.8	896.6	896.1	894.7	894.3	894.3
12.5°	884.9	883.5	880.2	878.3	879.3	876.5	876.5
15°	870.8	868.5	864.3	862.9	860.5	859.6	859.6
17.5°	856.3	854.4	850.7	847.9	845.1	844.6	845.1
20°	842.3	840.4	835.7	833.8	831.5	831.5	830.5
22.5°	828.2	826.3	822.1	820.7	817.4	817.4	817.9
25°	813.7	812.3	807.6	806.7	806.2	804.3	805.3
27.5°	794.0	793.1	789.3	787.9	786.0	785.6	786.5
30°	757.9	756.5	753.7	752.3	749.0	749.5	750.4
32.5°	713.0	711.1	707.3	705.9	703.1	702.2	702.7
35°	656.8	655.4	652.1	652.1	649.3	648.3	649.3
37.5°	599.6	601.0	599.6	601.0	599.6	599.1	599.6
40°	545.7	550.9	551.8	557.0	555.1	557.9	557.4
42.5°	494.2	502.6	505.9	510.1	509.2	511.1	512.5
45°	442.2	449.2	452.5	455.3	455.8	456.7	457.2
47.5°	393.0	398.6	399.1	402.4	401.9	401.9	403.3
50°	347.1	350.9	351.8	354.1	352.3	351.3	351.8
52.5°	304.5	308.2	307.3	308.2	305.9	305.0	305.4
55°	260.9	262.8	262.8	262.8	260.0	260.0	260.0
57.5°	216.4	216.9	216.0	216.4	216.0	213.1	212.7
60°	175.7	175.7	175.2	175.7	174.3	172.9	172.9
62.5°	137.2	138.2	140.1	138.2	137.2	138.2	136.8
65°	102.6	104.5	104.0	104.9	104.5	104.5	103.5
67.5°	77.3	77.8	78.2	78.7	78.7	78.7	78.7
70°	56.7	58.1	57.6	57.6	57.6	57.6	60.4
72.5°	37.9	39.8	39.4	40.3	40.3	41.2	40.3
75°	25.8	27.6	26.7	28.1	27.6	26.7	29.0
77.5°	17.3	18.3	18.7	19.2	18.7	18.3	18.7
80°	12.2	13.1	12.6	13.1	13.1	13.1	13.6
82.5°	7.5	8.9	8.4	8.9	8.4	8.9	8.9
85°	5.1	5.6	4.7	5.6	5.1	5.1	6.1
87.5°	3.3	2.8	2.8	3.3	2.8	3.3	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)