

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: McGRAW-EDISON

Report Number: P647725

Luminaire Tested: **GALN-SA1A-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2601.9 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

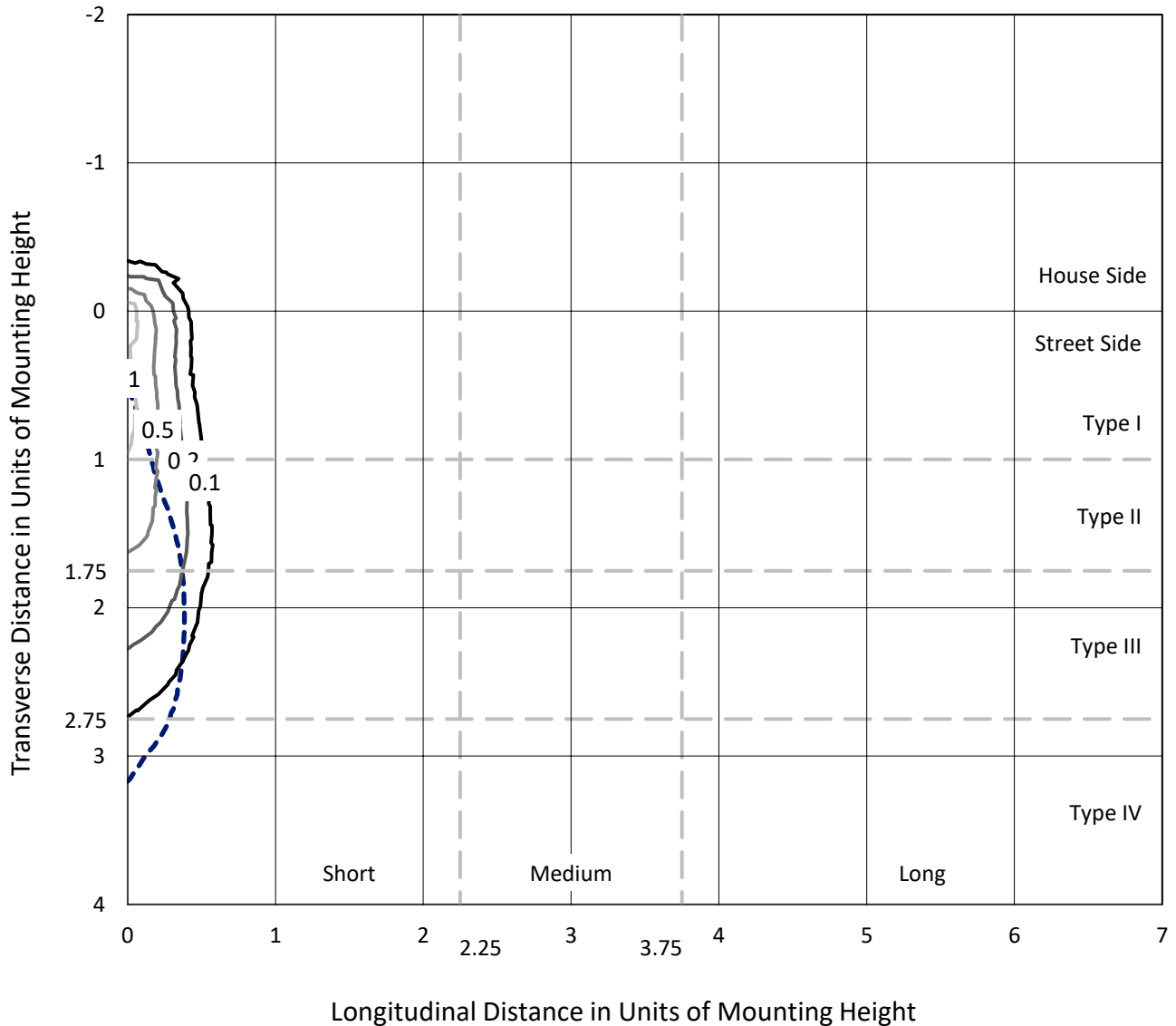
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

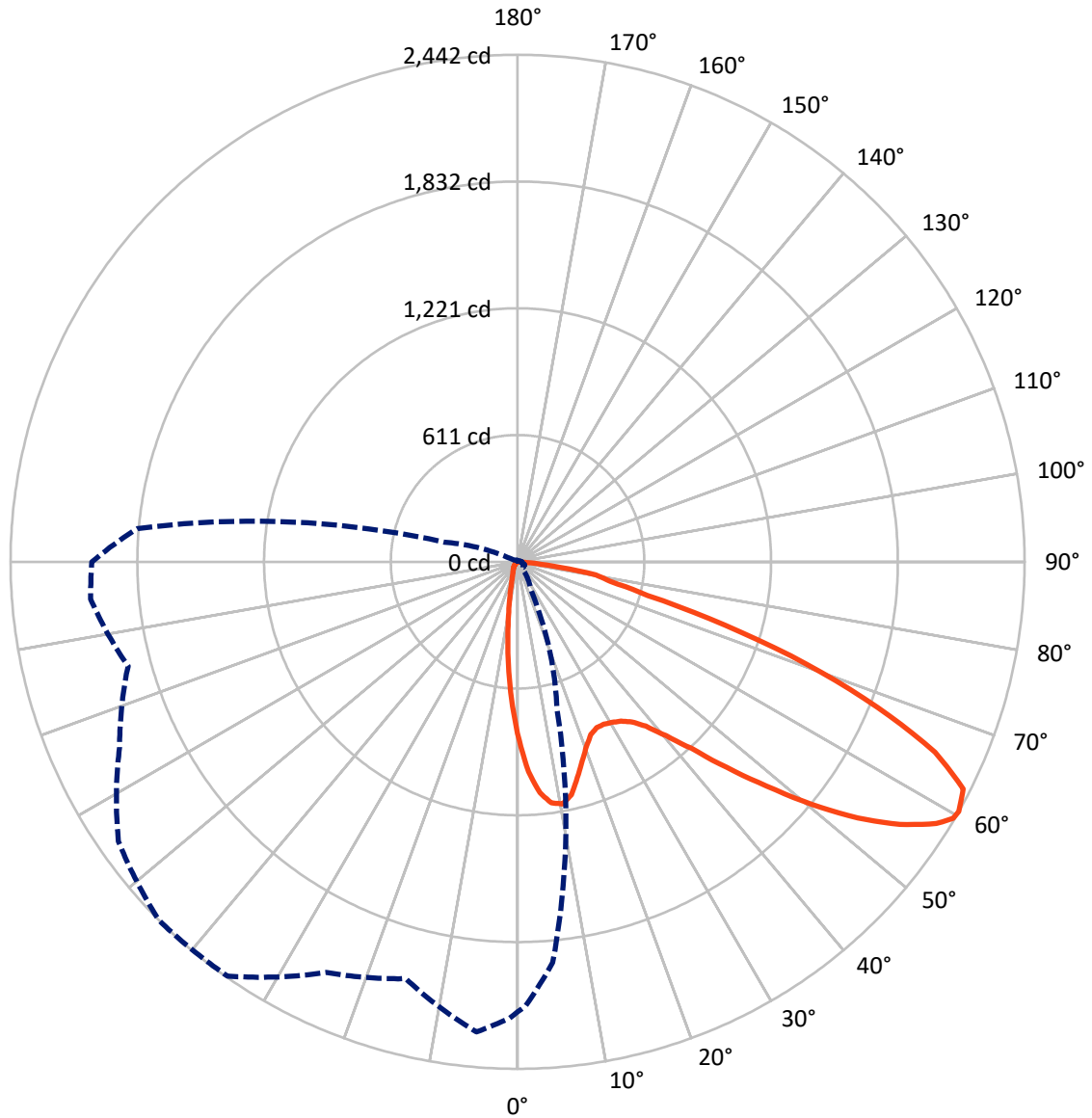
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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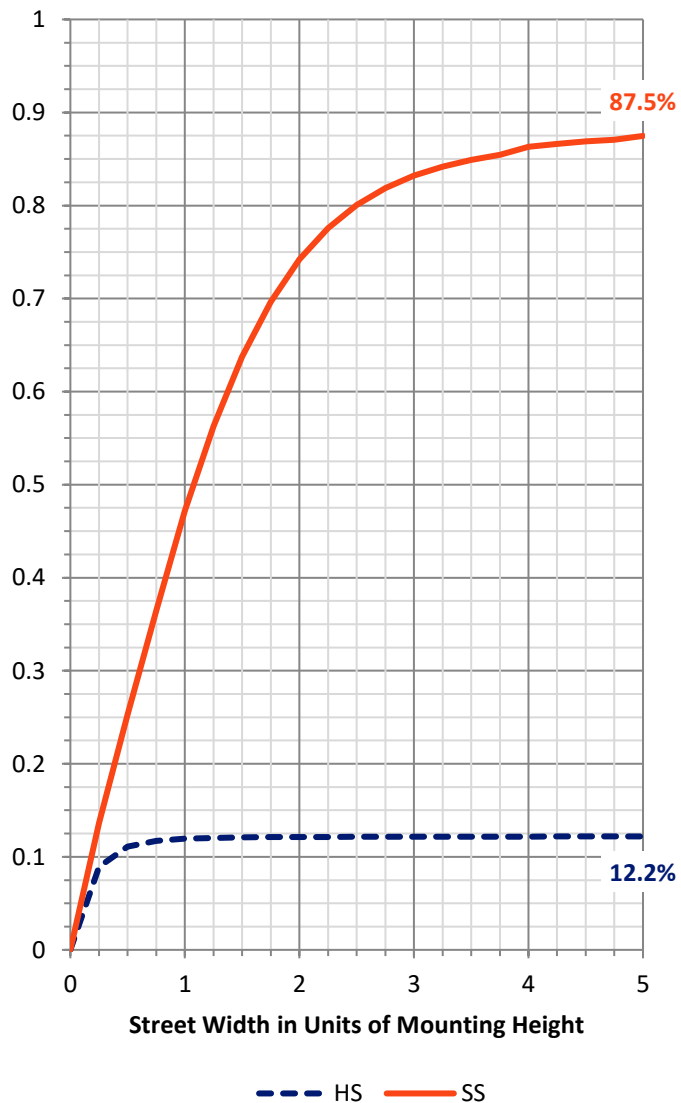
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	320.9	0.0	320.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2281.0	0.0	2281.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	2601.9	0.0	2601.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	2.5
10°-20°	127.0	4.9
20°-30°	186.3	7.2
30°-40°	277.0	10.6
40°-50°	403.1	15.5
50°-60°	581.3	22.3
60°-70°	639.4	24.6
70°-80°	286.4	11.0
80°-90°	37.4	1.4
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°-90°	2601.9	100.0
0°-180°	2601.9	100.0

Coefficient of Utilization



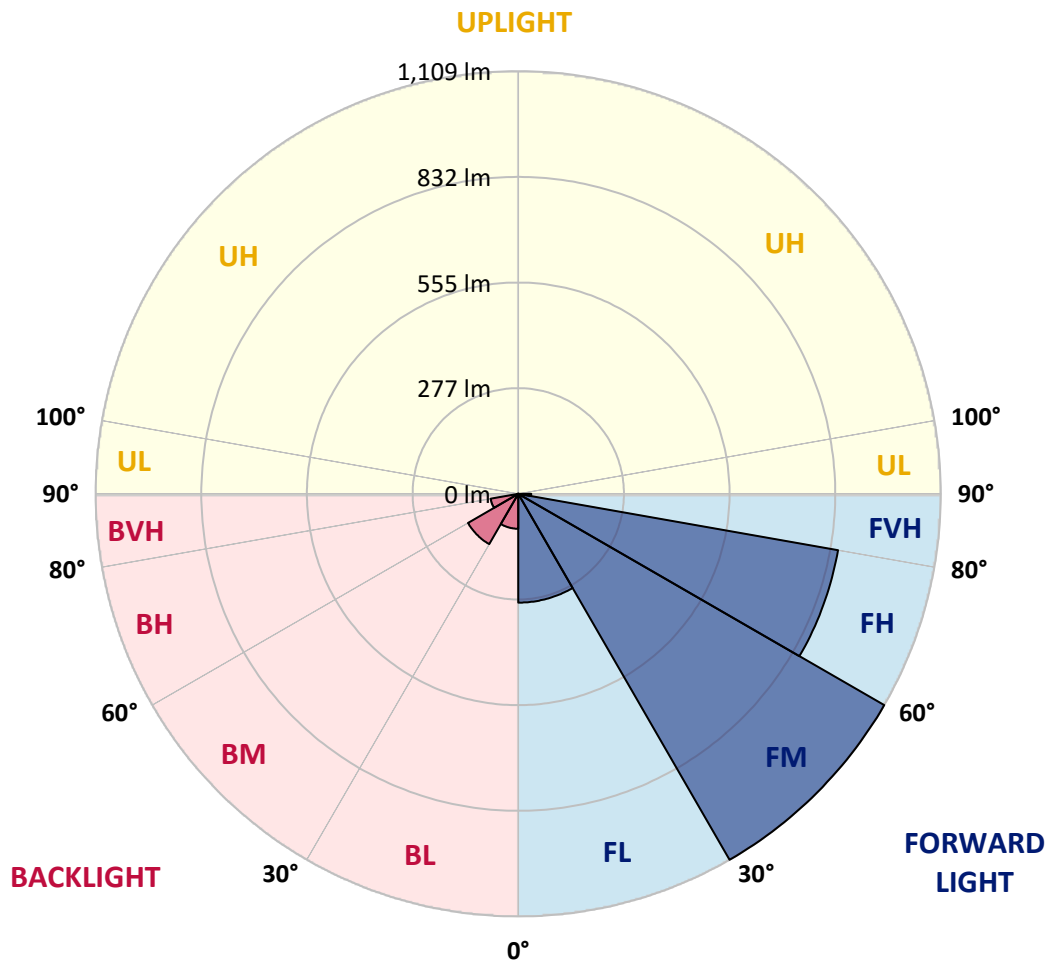
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	285.5	11.0			
FM (30°-60°)	1109.0	42.6			
FH (60°-80°)	852.2	32.8			G1/1800
FVH (80°-90°)	34.2	1.3			G1/100
BL (0°-30°)	91.7	3.5	B0/110		
BM (30°-60°)	152.4	5.9	B0/220		
BH (60°-80°)	73.6	2.8	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	945.4	941.2	931.8	902.9	877.7	844.9	811.7	785.6	769.6	740.1	726.6
5°	916.0	917.9	890.4	831.1	765.1	720.0	670.7	631.5	588.4	561.1	532.4
7.5°	839.0	835.1	805.2	722.5	642.2	576.9	514.7	464.0	432.1	406.6	385.3
10°	773.1	770.2	732.0	625.6	539.3	490.5	448.3	404.1	369.9	332.5	302.6
12.5°	731.8	725.1	681.1	570.0	499.8	454.3	408.4	362.4	315.1	277.3	241.1
15°	717.9	708.3	659.4	550.8	474.5	416.7	359.2	306.2	251.8	210.1	182.8
17.5°	743.1	727.1	675.0	547.5	444.2	367.7	296.9	227.9	171.3	139.5	122.6
20°	800.6	782.2	714.6	544.1	410.6	312.7	225.7	161.0	118.5	101.1	91.8
22.5°	886.0	860.8	773.1	549.4	379.5	259.1	162.9	113.7	94.1	83.2	76.7
25°	988.7	967.6	847.3	568.5	355.0	217.0	126.0	92.9	79.3	72.6	67.7
27.5°	1101.3	1067.5	943.2	591.2	332.7	184.3	110.6	83.1	70.6	64.4	61.9
30°	1181.4	1155.1	1023.5	607.0	304.8	159.8	101.1	81.9	70.8	63.5	58.7
32.5°	1260.5	1226.9	1090.8	614.3	284.4	142.8	87.4	71.4	62.1	58.3	53.6
35°	1345.1	1310.0	1157.8	610.3	269.2	131.5	79.3	63.7	53.2	46.9	42.1
37.5°	1430.8	1393.6	1224.5	596.1	259.7	127.0	73.0	60.5	50.3	43.7	38.6
40°	1532.4	1482.8	1287.0	584.4	249.8	124.6	68.8	58.6	48.1	41.1	36.0
42.5°	1615.5	1568.3	1346.1	578.3	243.0	119.1	68.8	56.9	46.7	39.0	33.6
45°	1694.3	1645.2	1410.0	583.3	240.3	112.1	69.6	56.8	45.7	37.3	32.0
47.5°	1760.1	1717.6	1475.6	601.9	236.8	104.6	65.5	59.5	45.1	36.0	30.5
50°	1837.8	1796.7	1562.5	639.5	230.4	97.1	60.3	64.0	44.9	34.8	29.0
52.5°	1947.4	1902.9	1682.4	682.1	220.3	85.7	55.6	63.5	44.1	32.8	27.7
55°	2081.3	2045.3	1821.2	733.4	206.5	72.8	48.1	56.4	41.7	29.4	25.3
57.5°	2167.1	2136.5	1925.2	755.5	185.3	59.5	42.4	47.3	38.2	26.3	22.6
59°	2177.2	2149.5	1947.0	748.2	171.5	54.4	39.5	40.6	37.2	24.5	21.0
60°	2168.7	2140.0	1938.3	734.0	158.6	50.8	37.2	36.0	37.3	23.6	19.8
62.5°	2114.1	2065.1	1853.8	661.8	138.7	46.7	33.0	29.4	33.0	21.1	17.6
65°	2008.7	1935.1	1686.7	560.2	130.8	44.3	28.1	24.7	25.1	18.6	15.3
67.5°	1824.5	1731.8	1464.2	455.1	127.4	44.5	23.7	22.2	19.4	15.8	13.5
70°	1533.4	1440.9	1174.8	374.4	125.8	44.5	20.2	18.9	16.2	13.2	11.7
72.5°	1086.6	987.0	792.6	294.1	113.3	44.3	17.2	17.2	13.2	11.0	9.5
75°	614.0	614.7	498.2	208.0	94.1	36.6	13.9	13.6	9.7	8.5	7.1
77.5°	357.8	351.5	335.8	89.4	43.7	16.6	9.7	8.3	6.7	6.1	5.2
80°	183.9	151.3	147.4	32.4	15.7	10.5	6.7	4.8	4.4	4.0	3.5
82.5°	54.4	54.6	48.6	13.1	8.7	6.9	3.4	2.6	2.3	2.2	2.2
85°	3.8	2.3	2.7	4.0	5.3	2.7	0.2	0.6	0.6	0.8	1.0
87.5°	0.4	0.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	711.8	720.5	704.3	704.7	691.2	695.6	679.8	684.9	675.7	682.8	703.7
5°	535.6	537.6	524.5	520.4	522.3	530.5	533.6	519.2	525.3	513.3	512.5
7.5°	377.4	379.8	372.2	371.2	385.5	382.1	388.3	373.4	359.4	365.5	354.2
10°	293.2	283.2	267.8	263.5	260.7	262.5	262.5	249.0	247.0	241.7	249.8
12.5°	231.4	219.3	204.7	184.9	180.0	179.6	172.3	160.4	156.7	152.1	158.8
15°	168.1	163.2	150.9	139.8	128.6	126.4	114.6	104.8	92.0	90.2	89.6
17.5°	118.3	111.0	110.8	104.5	97.9	93.6	82.4	71.4	66.5	65.9	65.9
20°	88.6	86.1	81.9	81.1	79.1	74.2	64.3	58.3	56.0	56.1	56.9
22.5°	74.5	72.8	69.1	67.3	66.5	62.1	54.8	50.8	49.6	49.6	49.9
25°	66.6	65.1	60.9	58.2	57.2	54.0	48.2	45.3	44.3	44.3	44.3
27.5°	60.7	58.7	54.4	52.0	50.3	46.7	43.1	40.2	39.2	39.2	39.4
30°	56.5	54.4	50.4	47.3	44.5	41.3	38.4	35.8	34.6	34.5	34.6
32.5°	51.1	49.0	45.1	43.1	39.9	36.2	33.8	31.5	30.2	30.5	30.2
35°	39.8	39.2	36.4	37.0	35.2	32.0	29.8	27.3	25.9	25.7	26.1
37.5°	36.2	33.8	30.7	30.9	30.2	29.0	25.5	22.7	21.8	21.8	21.9
40°	33.4	31.1	27.5	25.7	25.9	25.9	22.2	19.2	18.2	18.0	18.4
42.5°	31.1	28.7	24.7	21.8	21.0	21.9	18.8	15.8	14.8	14.4	14.8
45°	29.4	26.9	22.3	18.9	16.6	17.8	15.4	13.1	11.9	11.9	11.7
47.5°	27.9	25.5	20.6	16.4	13.9	13.2	12.7	10.5	9.3	9.1	9.3
50°	26.5	24.1	18.6	14.3	11.7	10.3	10.3	8.3	7.5	7.1	7.3
52.5°	25.1	22.6	16.8	12.7	10.1	8.3	7.3	6.7	6.1	6.0	6.1
55°	23.2	20.6	15.0	10.9	8.7	6.9	5.7	5.6	5.2	4.8	5.2
57.5°	20.7	18.4	13.2	9.3	6.9	5.3	4.8	4.5	4.1	4.0	4.0
59°	19.4	17.2	12.3	8.1	6.1	4.8	4.4	4.1	3.8	3.4	3.5
60°	18.6	16.8	11.7	7.5	5.6	4.4	4.0	3.8	3.4	3.1	3.4
62.5°	16.4	15.0	10.3	6.1	4.4	3.1	2.7	3.0	2.7	2.6	2.7
65°	14.4	13.2	8.7	4.8	3.4	2.2	2.0	2.6	2.3	2.2	2.3
67.5°	12.8	11.5	7.3	3.5	2.3	1.2	1.4	2.2	2.2	2.0	2.2
70°	11.0	9.9	6.0	2.6	1.2	0.6	1.0	1.6	2.0	1.8	2.0
72.5°	9.1	7.8	4.5	1.8	0.6	0.0	0.6	1.4	2.0	1.8	2.0
75°	7.1	5.7	3.4	1.0	0.0	0.0	0.2	1.2	2.0	1.8	2.0
77.5°	5.2	4.1	2.0	0.2	0.0	0.0	0.2	1.2	2.0	1.8	2.0
80°	3.4	3.0	0.8	0.0	0.0	0.0	0.2	1.2	2.0	2.0	2.2
82.5°	2.2	1.6	0.0	0.0	0.0	0.0	0.4	1.6	2.2	2.3	2.3
85°	1.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	2.6	2.6	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.4	2.3	3.0	3.0	3.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	707.3	719.7	737.4	764.4	786.4	821.0	847.5	883.7	920.3	931.4	948.6
5°	520.5	536.6	576.5	612.9	635.9	709.1	755.4	828.3	893.8	925.3	959.5
7.5°	361.6	380.5	411.0	461.8	510.1	569.6	644.4	727.9	823.8	868.7	916.9
10°	253.8	277.5	320.4	362.1	422.9	479.4	553.2	645.3	751.2	804.2	864.7
12.5°	160.2	181.3	238.1	285.0	360.7	426.4	494.5	577.9	700.6	755.0	818.5
15°	91.6	109.4	135.9	196.0	280.1	366.9	451.7	548.6	674.6	741.7	810.3
17.5°	68.2	73.0	84.9	118.9	195.4	296.9	412.4	539.7	692.3	770.9	849.3
20°	57.4	60.5	66.1	79.5	124.6	228.6	374.0	541.4	749.2	848.1	922.5
22.5°	51.4	53.4	57.9	66.6	85.0	166.5	329.1	550.6	818.2	942.8	1028.7
25°	45.1	47.7	51.6	59.1	70.8	115.5	284.8	571.4	914.9	1063.1	1143.8
27.5°	40.2	42.5	46.5	53.4	62.1	88.2	233.2	589.2	1017.0	1184.1	1250.2
30°	35.2	37.6	41.5	47.1	55.0	71.4	177.6	599.7	1116.1	1275.0	1325.8
32.5°	31.1	33.0	36.8	41.7	48.2	60.5	140.0	588.8	1191.9	1357.4	1391.4
35°	26.9	29.3	32.4	37.0	42.8	51.6	116.5	551.2	1256.9	1442.2	1454.5
37.5°	22.6	25.3	28.7	32.8	37.3	47.4	93.6	509.7	1326.6	1548.1	1527.9
40°	18.9	21.5	24.7	29.3	33.4	43.5	72.0	465.4	1401.7	1647.4	1608.0
42.5°	15.4	18.2	21.9	26.1	33.0	38.0	55.7	419.5	1469.1	1733.8	1680.4
45°	12.3	14.6	18.6	24.0	32.8	32.7	43.1	374.2	1520.0	1795.5	1734.3
47.5°	9.7	11.7	15.7	23.3	30.2	27.7	34.6	346.1	1573.4	1851.1	1775.7
50°	7.8	9.7	13.5	24.4	26.5	23.7	29.0	350.7	1625.0	1879.4	1792.8
52.5°	6.5	8.5	11.7	19.2	20.4	20.7	25.5	371.6	1691.7	1909.6	1826.5
55°	5.7	7.5	9.9	13.5	15.8	18.6	23.3	386.9	1780.9	1974.5	1901.1
57.5°	4.5	6.5	8.9	11.5	13.1	16.2	21.5	388.1	1861.6	2057.7	2000.2
59°	4.1	6.0	8.3	10.9	11.7	14.6	20.4	378.0	1864.5	2070.3	2045.7
60°	3.8	5.7	7.9	10.1	11.0	13.9	19.4	366.3	1837.6	2050.4	2064.5
62.5°	3.1	4.9	6.9	8.1	9.5	11.5	16.8	324.0	1707.3	1960.9	2029.7
65°	2.7	4.4	6.0	6.7	7.9	9.9	14.8	259.3	1563.3	1839.4	1930.0
67.5°	2.6	4.0	5.2	5.7	6.9	9.1	13.2	183.1	1376.7	1685.3	1780.2
70°	2.3	3.8	4.5	5.3	6.1	7.8	11.3	106.8	1060.5	1415.1	1515.4
72.5°	2.3	3.5	4.0	4.5	5.3	6.9	10.5	57.8	725.1	1079.5	1209.0
75°	2.3	3.4	3.5	4.0	4.8	6.3	9.3	30.2	468.8	750.0	925.7
77.5°	2.3	3.1	3.5	3.8	4.5	5.6	8.1	18.9	312.3	525.3	625.6
80°	2.6	3.1	3.4	3.8	4.4	5.2	6.7	12.7	183.5	316.1	380.8
82.5°	2.7	3.1	3.5	4.0	4.5	4.9	6.0	7.9	84.6	209.1	236.5
85°	3.0	3.4	3.8	4.1	4.8	4.9	5.6	5.7	13.9	94.4	127.6
87.5°	3.1	3.5	4.0	4.4	5.2	5.2	5.2	5.2	4.8	10.1	25.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	970.3	992.7	1008.3	1012.3	1001.0	995.8	981.6	959.5	946.0	945.4
5°	1022.5	1075.0	1111.4	1117.5	1095.7	1058.9	1015.2	958.9	925.8	916.0
7.5°	1013.7	1105.4	1163.9	1172.5	1135.9	1065.7	981.0	890.2	854.3	839.0
10°	977.0	1089.0	1172.7	1186.1	1137.2	1038.3	930.8	829.5	784.8	773.1
12.5°	945.8	1058.9	1133.3	1151.9	1114.9	1016.3	900.7	790.5	742.7	731.8
15°	932.2	1023.3	1068.8	1078.3	1072.2	1002.4	897.6	784.6	729.8	717.9
17.5°	945.8	993.1	998.8	1008.5	1022.1	1001.0	928.0	816.8	757.7	743.1
20°	981.6	966.8	943.0	947.2	978.4	1006.7	982.2	888.2	816.3	800.6
22.5°	1042.5	960.3	906.5	902.9	942.4	1025.9	1061.7	984.9	901.5	886.0
25°	1117.3	976.6	893.0	885.3	928.4	1054.0	1148.1	1103.4	1012.3	988.7
27.5°	1198.8	1010.7	893.0	885.5	927.2	1078.9	1222.1	1208.2	1127.0	1101.3
30°	1243.5	1038.7	905.9	897.3	941.9	1093.4	1261.6	1301.4	1213.2	1181.4
32.5°	1283.4	1077.7	931.0	914.9	972.5	1114.7	1297.0	1380.5	1281.8	1260.5
35°	1320.2	1119.5	965.6	947.0	1012.9	1144.0	1336.3	1463.6	1377.4	1345.1
37.5°	1360.8	1167.9	1019.5	1003.7	1080.3	1201.0	1382.7	1572.8	1471.3	1430.8
40°	1404.9	1224.1	1108.4	1101.7	1187.5	1265.4	1441.4	1689.2	1578.5	1532.4
42.5°	1449.7	1288.7	1217.2	1228.2	1308.9	1355.8	1501.8	1778.9	1666.3	1615.5
45°	1490.5	1371.4	1358.6	1413.4	1450.6	1444.0	1546.5	1842.0	1742.9	1694.3
47.5°	1542.0	1491.9	1529.7	1614.2	1615.1	1539.9	1580.3	1893.6	1808.7	1760.1
50°	1599.5	1634.1	1750.6	1836.6	1813.5	1634.3	1619.9	1954.7	1876.8	1837.8
52.5°	1666.1	1793.3	1954.7	2050.2	1996.3	1737.2	1685.7	2020.8	1984.7	1947.4
55°	1743.7	1901.9	2158.3	2234.4	2180.0	1864.9	1785.8	2110.3	2106.8	2081.3
57.5°	1831.3	2016.6	2276.1	2379.1	2330.7	2014.8	1925.6	2194.8	2181.4	2167.1
59°	1900.5	2075.6	2328.1	2434.9	2405.7	2119.9	2019.6	2247.4	2198.6	2177.2
60°	1942.5	2115.5	2347.3	2442.4	2435.8	2182.4	2079.1	2273.1	2198.4	2168.7
62.5°	2066.9	2185.4	2340.0	2409.1	2435.3	2302.2	2253.8	2301.4	2157.6	2114.1
65°	2111.1	2162.2	2218.8	2210.3	2232.8	2296.1	2365.3	2270.4	2070.6	2008.7
67.5°	2024.9	1908.4	1928.4	1871.6	1860.6	2041.4	2320.0	2118.5	1900.3	1824.5
70°	1706.9	1462.0	1451.9	1478.1	1406.4	1652.7	2083.2	1826.0	1619.2	1533.4
72.5°	1343.5	1033.2	948.2	1044.3	1042.1	1260.9	1730.6	1295.7	1093.9	1086.6
75°	1056.6	719.3	631.3	647.0	677.0	912.7	1378.4	822.8	673.7	614.0
77.5°	709.2	509.7	475.4	456.3	488.7	586.0	872.0	446.2	377.8	357.8
80°	408.8	370.3	420.5	381.7	399.1	369.3	433.7	204.7	169.9	183.9
82.5°	266.0	210.9	224.7	166.9	228.2	230.2	139.2	60.5	51.2	54.4
85°	166.3	98.9	55.6	39.5	78.7	144.8	43.5	3.8	4.4	3.8
87.5°	43.1	16.4	6.9	10.3	12.7	11.3	10.1	0.6	0.2	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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