

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: P450349

Luminaire Tested: **GALN-SA1A-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450349
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-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 2443 lumens
Efficiency: N/A
Efficacy: 74.0 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

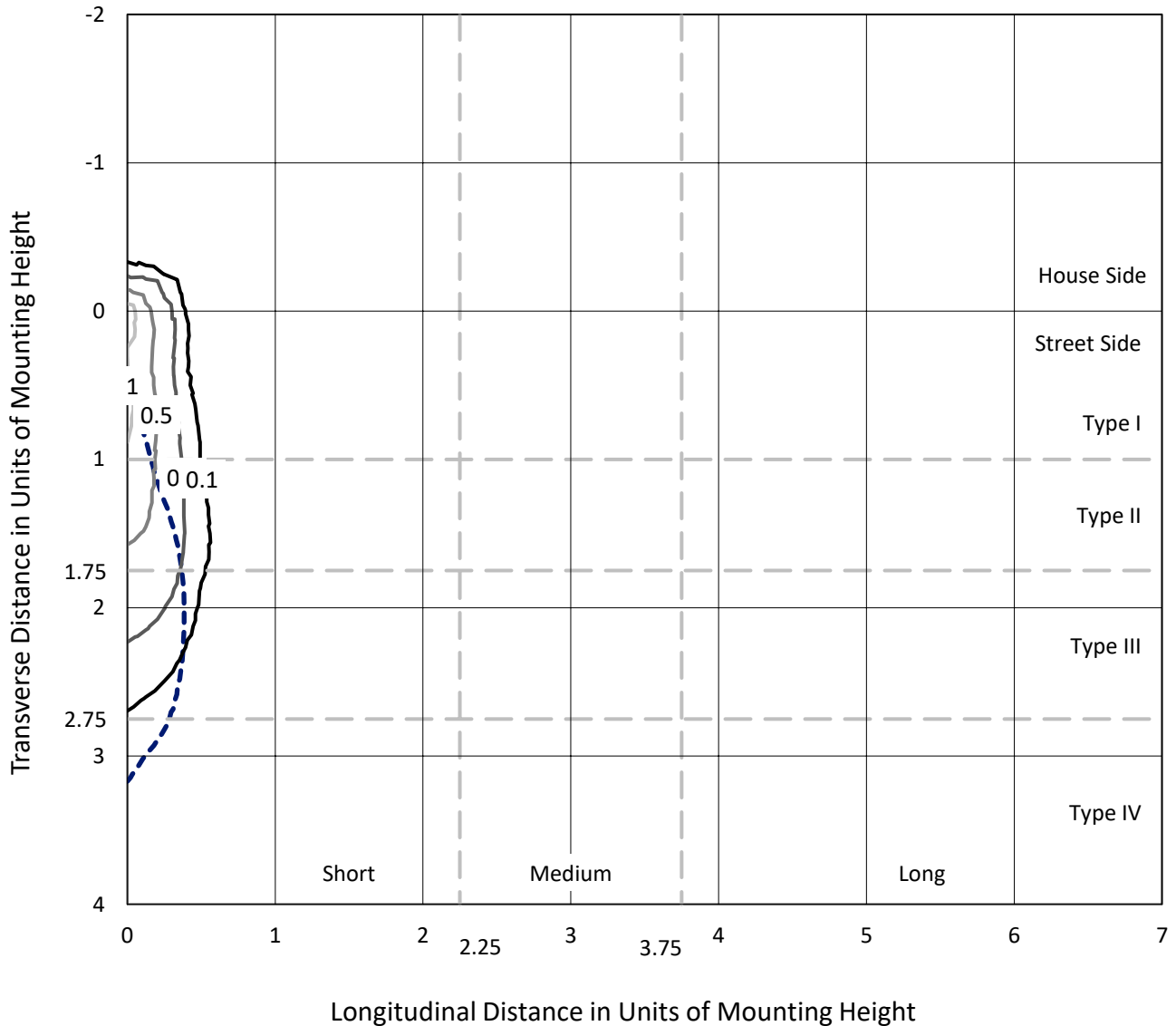
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

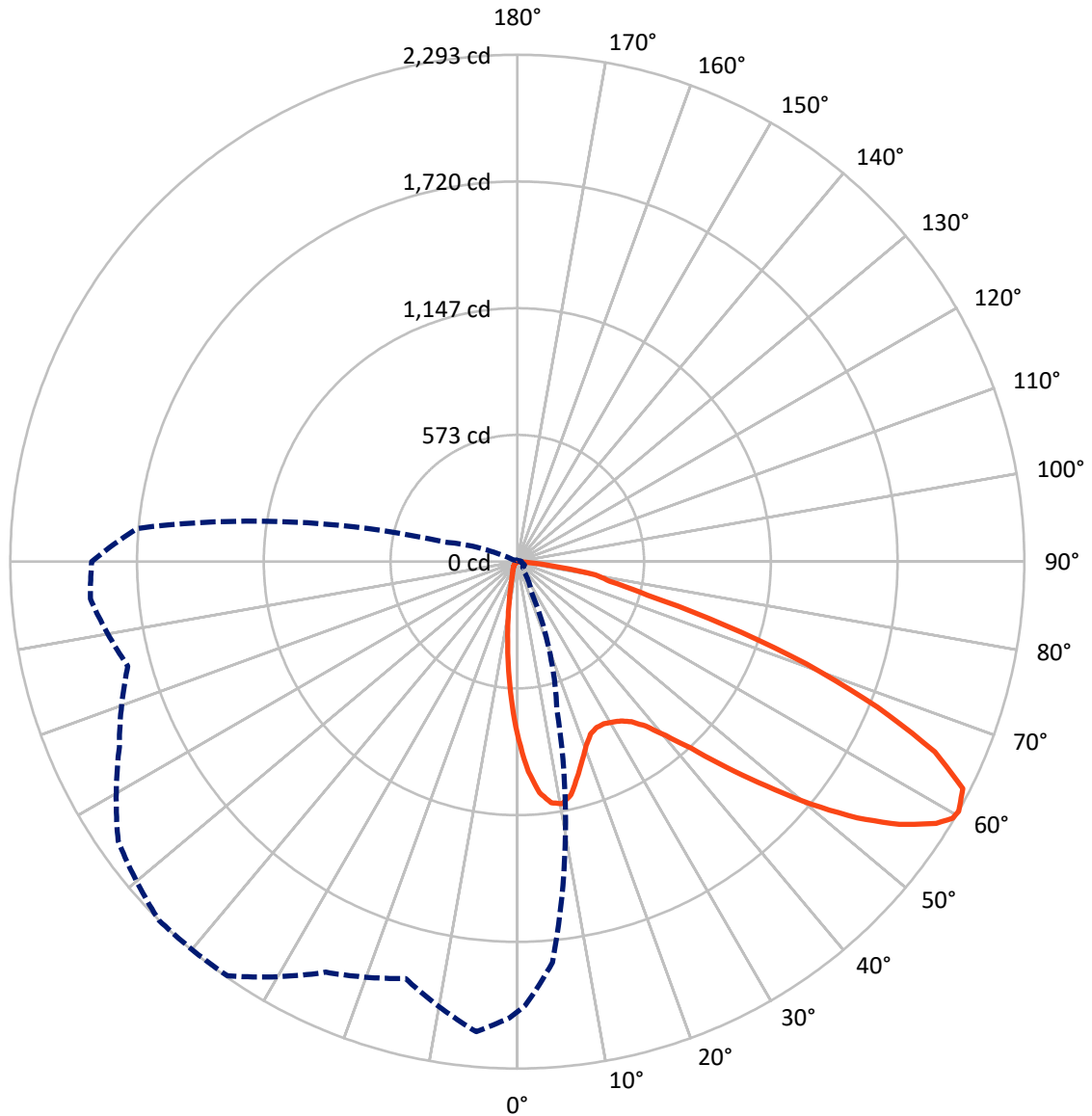
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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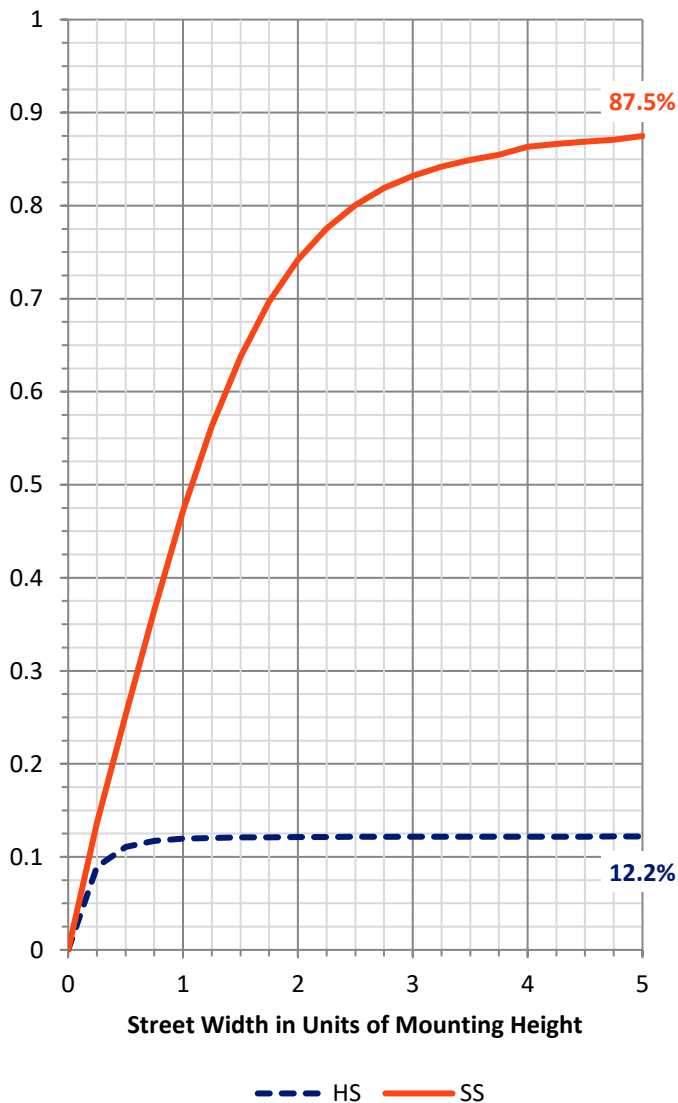
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	301.3	0.0	301.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2141.7	0.0	2141.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	2443.0	0.0	2443.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	2.5
10°-20°	119.3	4.9
20°-30°	174.9	7.2
30°-40°	260.1	10.6
40°-50°	378.5	15.5
50°-60°	545.8	22.3
60°-70°	600.3	24.6
70°-80°	268.9	11.0
80°-90°	35.1	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°	2443.0	100.0
0°-180°	2443.0	100.0



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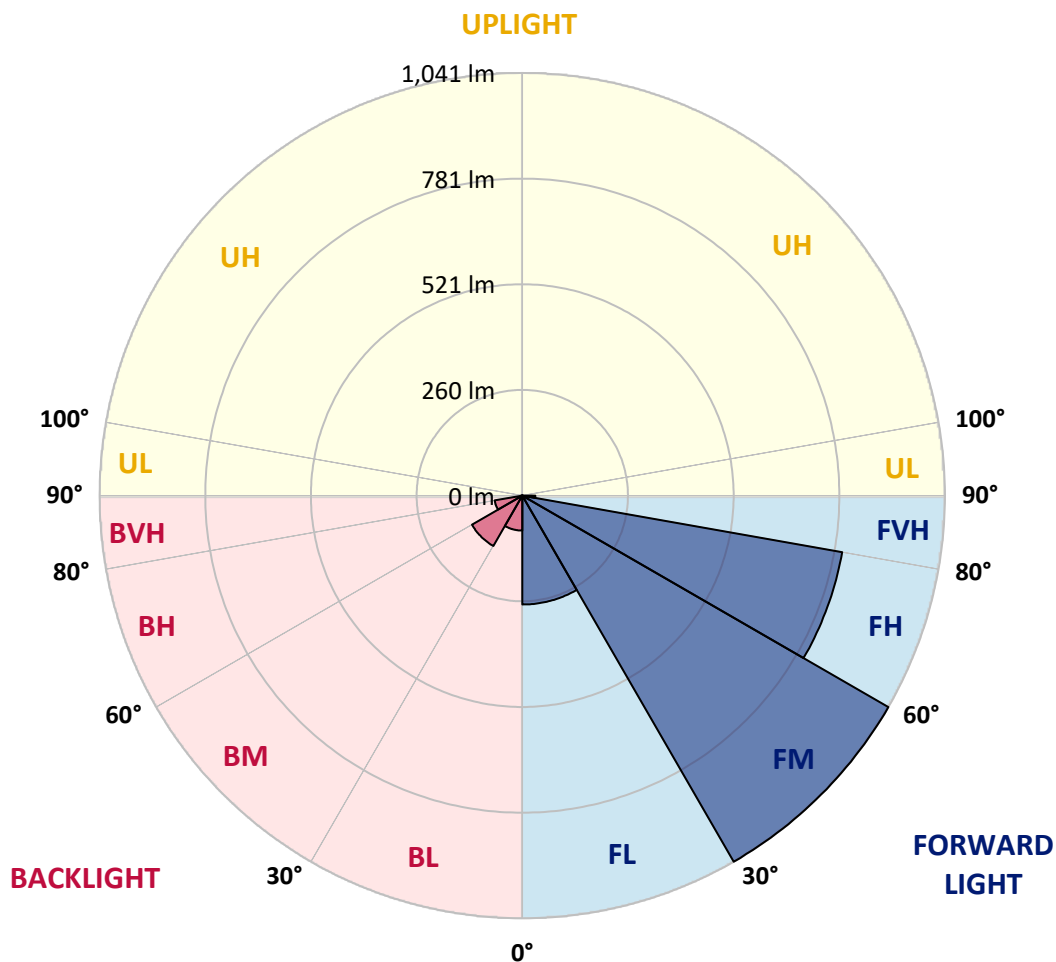
CATALOG NUMBER: GALN-SA1A-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	268.1	11.0			
FM	(30°-60°)	1041.3	42.6			
FH	(60°-80°)	800.2	32.8			G1/1800
FVH	(80°-90°)	32.1	1.3			G1/100
BL	(0°-30°)	86.1	3.5	B0/110		
BM	(30°-60°)	143.1	5.9	B0/220		
BH	(60°-80°)	69.1	2.8	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	887.7	883.8	874.9	847.7	824.2	793.3	762.1	737.6	722.6	694.9	682.3
5°	860.0	861.9	836.0	780.3	718.3	676.0	629.7	593.0	552.5	526.8	499.9
7.5°	787.8	784.0	756.0	678.4	603.0	541.7	483.2	435.7	405.8	381.8	361.8
10°	725.9	723.1	687.3	587.4	506.4	460.5	421.0	379.4	347.3	312.2	284.1
12.5°	687.1	680.8	639.6	535.2	469.3	426.6	383.5	340.2	295.8	260.4	226.4
15°	674.1	665.0	619.1	517.2	445.5	391.3	337.2	287.5	236.4	197.2	171.6
17.5°	697.7	682.7	633.8	514.0	417.1	345.2	278.7	213.9	160.8	130.9	115.1
20°	751.7	734.5	671.0	510.9	385.5	293.6	211.9	151.2	111.2	94.9	86.2
22.5°	832.0	808.2	725.9	515.9	356.4	243.3	153.0	106.8	88.4	78.2	72.1
25°	928.3	908.5	795.6	533.7	333.3	203.7	118.3	87.3	74.5	68.2	63.5
27.5°	1034.0	1002.3	885.6	555.1	312.4	173.1	103.8	78.0	66.3	60.5	58.1
30°	1109.2	1084.5	961.0	569.9	286.2	150.0	94.9	76.9	66.5	59.6	55.2
32.5°	1183.5	1151.9	1024.2	576.8	267.0	134.1	82.1	67.0	58.3	54.8	50.3
35°	1263.0	1229.9	1087.1	573.1	252.7	123.5	74.5	59.8	50.0	44.0	39.6
37.5°	1343.4	1308.5	1149.7	559.7	243.8	119.2	68.5	56.8	47.2	41.0	36.2
40°	1438.8	1392.2	1208.4	548.8	234.5	117.0	64.6	55.0	45.1	38.6	33.8
42.5°	1516.8	1472.5	1263.9	543.0	228.2	111.8	64.6	53.5	43.8	36.6	31.6
45°	1590.8	1544.7	1323.9	547.6	225.6	105.3	65.4	53.3	42.9	35.1	30.1
47.5°	1652.6	1612.7	1385.5	565.1	222.3	98.2	61.5	55.9	42.3	33.8	28.6
50°	1725.6	1686.9	1467.1	600.4	216.3	91.2	56.6	60.2	42.2	32.7	27.3
52.5°	1828.5	1786.7	1579.6	640.5	206.9	80.4	52.2	59.6	41.4	30.8	26.0
55°	1954.2	1920.4	1710.0	688.6	193.9	68.3	45.1	52.9	39.2	27.7	23.8
57.5°	2034.8	2006.0	1807.7	709.4	174.0	55.9	39.7	44.4	35.8	24.7	21.2
59°	2044.2	2018.2	1828.1	702.5	161.0	51.1	37.1	38.1	34.9	23.0	19.7
60°	2036.3	2009.3	1819.9	689.2	148.9	47.7	34.9	33.8	35.1	22.1	18.6
62.5°	1985.0	1938.9	1740.6	621.4	130.2	43.8	31.0	27.7	31.0	19.9	16.5
65°	1886.0	1816.9	1583.7	525.9	122.8	41.6	26.4	23.2	23.6	17.5	14.3
67.5°	1713.1	1626.0	1374.8	427.3	119.6	41.8	22.3	20.8	18.2	14.9	12.6
70°	1439.8	1352.9	1103.1	351.5	118.1	41.8	18.9	17.8	15.2	12.4	11.0
72.5°	1020.3	926.7	744.1	276.1	106.4	41.6	16.2	16.2	12.4	10.4	8.9
75°	576.4	577.2	467.8	195.4	88.4	34.4	13.0	12.8	9.1	8.0	6.7
77.5°	335.9	330.0	315.3	83.9	41.0	15.6	9.1	7.8	6.3	5.8	4.8
80°	172.7	142.1	138.4	30.5	14.7	9.8	6.3	4.5	4.1	3.7	3.3
82.5°	51.1	51.3	45.7	12.3	8.2	6.5	3.2	2.4	2.2	2.0	2.0
85°	3.5	2.2	2.6	3.7	5.0	2.6	0.2	0.6	0.6	0.7	0.9
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°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	668.4	676.5	661.3	661.7	649.0	653.1	638.3	643.1	634.4	641.1	660.7
5°	502.9	504.7	492.5	488.6	490.4	498.1	501.0	487.5	493.2	481.9	481.2
7.5°	354.3	356.6	349.5	348.6	361.9	358.8	364.5	350.6	337.4	343.2	332.6
10°	275.2	265.9	251.4	247.4	244.8	246.4	246.4	233.8	231.9	226.9	234.5
12.5°	217.3	205.9	192.2	173.6	169.0	168.6	161.7	150.6	147.1	142.8	149.1
15°	157.8	153.2	141.7	131.3	120.7	118.7	107.5	98.4	86.4	84.7	84.1
17.5°	111.1	104.2	104.0	98.1	91.9	87.8	77.4	67.0	62.4	61.8	61.8
20°	83.2	80.8	76.9	76.1	74.3	69.6	60.4	54.8	52.6	52.7	53.5
22.5°	70.0	68.3	64.8	63.1	62.4	58.3	51.4	47.7	46.6	46.6	46.8
25°	62.6	61.1	57.2	54.6	53.7	50.7	45.3	42.5	41.6	41.6	41.6
27.5°	57.0	55.2	51.1	48.8	47.2	43.8	40.5	37.7	36.8	36.8	37.0
30°	53.1	51.1	47.4	44.4	41.8	38.8	36.0	33.6	32.5	32.3	32.5
32.5°	47.9	46.1	42.3	40.5	37.5	34.0	31.8	29.5	28.4	28.6	28.4
35°	37.3	36.8	34.2	34.7	33.1	30.1	28.0	25.6	24.3	24.1	24.5
37.5°	34.0	31.8	28.8	29.0	28.4	27.3	24.0	21.4	20.4	20.4	20.6
40°	31.4	29.2	25.8	24.1	24.3	24.3	20.8	18.0	17.1	16.9	17.3
42.5°	29.2	26.9	23.2	20.4	19.7	20.6	17.6	14.9	13.9	13.6	13.9
45°	27.7	25.3	21.0	17.8	15.6	16.7	14.5	12.3	11.1	11.1	11.0
47.5°	26.2	24.0	19.3	15.4	13.0	12.4	11.9	9.8	8.7	8.5	8.7
50°	24.9	22.7	17.5	13.4	11.0	9.7	9.7	7.8	7.1	6.7	6.9
52.5°	23.6	21.2	15.8	11.9	9.5	7.8	6.9	6.3	5.8	5.6	5.8
55°	21.7	19.3	14.1	10.2	8.2	6.5	5.4	5.2	4.8	4.5	4.8
57.5°	19.5	17.3	12.4	8.7	6.5	5.0	4.5	4.3	3.9	3.7	3.7
59°	18.2	16.2	11.5	7.6	5.8	4.5	4.1	3.9	3.5	3.2	3.3
60°	17.5	15.8	11.0	7.1	5.2	4.1	3.7	3.5	3.2	3.0	3.2
62.5°	15.4	14.1	9.7	5.8	4.1	3.0	2.6	2.8	2.6	2.4	2.6
65°	13.6	12.4	8.2	4.5	3.2	2.0	1.9	2.4	2.2	2.0	2.2
67.5°	12.1	10.8	6.9	3.3	2.2	1.1	1.3	2.0	2.0	1.9	2.0
70°	10.4	9.3	5.6	2.4	1.1	0.6	0.9	1.5	1.9	1.7	1.9
72.5°	8.5	7.2	4.3	1.7	0.6	0.0	0.6	1.3	1.9	1.7	1.9
75°	6.7	5.4	3.2	0.9	0.0	0.0	0.2	1.1	1.9	1.7	1.9
77.5°	4.8	3.9	1.9	0.2	0.0	0.0	0.2	1.1	1.9	1.7	1.9
80°	3.2	2.8	0.7	0.0	0.0	0.0	0.2	1.1	1.9	1.9	2.0
82.5°	2.0	1.5	0.0	0.0	0.0	0.0	0.4	1.5	2.0	2.2	2.2
85°	0.9	0.0	0.0	0.0	0.0	0.0	0.7	1.9	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.3	2.2	2.8	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	664.1	675.8	692.3	717.8	738.4	770.9	795.7	829.7	864.1	874.5	890.6
5°	488.8	503.8	541.3	575.5	597.0	665.8	709.2	777.7	839.2	868.7	900.9
7.5°	339.5	357.3	385.9	433.6	478.9	534.8	605.0	683.4	773.5	815.6	860.9
10°	238.3	260.5	300.8	340.0	397.0	450.1	519.4	606.0	705.3	755.1	811.9
12.5°	150.4	170.3	223.6	267.6	338.7	400.4	464.3	542.6	657.8	708.8	768.4
15°	86.0	102.7	127.6	184.0	263.0	344.5	424.2	515.1	633.4	696.4	760.8
17.5°	64.1	68.5	79.7	111.6	183.5	278.7	387.2	506.8	650.0	723.9	797.4
20°	53.9	56.8	62.0	74.7	117.0	214.7	351.2	508.3	703.5	796.3	866.1
22.5°	48.3	50.1	54.4	62.6	79.9	156.4	309.0	517.0	768.3	885.3	965.9
25°	42.3	44.8	48.5	55.5	66.5	108.5	267.4	536.5	859.1	998.2	1073.9
27.5°	37.7	39.9	43.6	50.1	58.3	82.8	218.9	553.2	954.9	1111.8	1173.8
30°	33.1	35.3	39.0	44.2	51.6	67.0	166.8	563.1	1047.9	1197.1	1244.8
32.5°	29.2	31.0	34.5	39.2	45.3	56.8	131.5	552.8	1119.1	1274.5	1306.4
35°	25.3	27.5	30.5	34.7	40.1	48.5	109.4	517.6	1180.2	1354.2	1365.7
37.5°	21.2	23.8	26.9	30.8	35.1	44.6	87.8	478.6	1245.5	1453.5	1434.6
40°	17.8	20.2	23.2	27.5	31.4	40.9	67.6	437.0	1316.1	1546.7	1509.8
42.5°	14.5	17.1	20.6	24.5	31.0	35.7	52.4	393.9	1379.4	1627.9	1577.8
45°	11.5	13.7	17.5	22.5	30.8	30.6	40.5	351.4	1427.1	1685.8	1628.4
47.5°	9.1	11.0	14.7	21.9	28.4	26.0	32.5	325.0	1477.3	1738.0	1667.3
50°	7.2	9.1	12.6	22.8	24.9	22.3	27.3	329.3	1525.8	1764.6	1683.2
52.5°	6.1	8.0	11.0	18.0	19.1	19.5	24.0	348.9	1588.3	1793.0	1715.0
55°	5.4	7.1	9.3	12.6	14.9	17.5	21.9	363.2	1672.1	1853.9	1785.0
57.5°	4.3	6.1	8.4	10.8	12.3	15.2	20.2	364.4	1747.9	1932.1	1878.0
59°	3.9	5.6	7.8	10.2	11.0	13.7	19.1	354.9	1750.6	1943.8	1920.7
60°	3.5	5.4	7.4	9.5	10.4	13.0	18.2	343.9	1725.4	1925.2	1938.4
62.5°	3.0	4.6	6.5	7.6	8.9	10.8	15.8	304.2	1603.0	1841.1	1905.7
65°	2.6	4.1	5.6	6.3	7.4	9.3	13.9	243.5	1467.8	1727.1	1812.1
67.5°	2.4	3.7	4.8	5.4	6.5	8.5	12.4	172.0	1292.7	1582.4	1671.5
70°	2.2	3.5	4.3	5.0	5.8	7.2	10.6	100.3	995.8	1328.7	1422.9
72.5°	2.2	3.3	3.7	4.3	5.0	6.5	9.8	54.2	680.8	1013.6	1135.2
75°	2.2	3.2	3.3	3.7	4.5	5.9	8.7	28.4	440.1	704.2	869.1
77.5°	2.2	3.0	3.3	3.5	4.3	5.2	7.6	17.8	293.2	493.2	587.4
80°	2.4	3.0	3.2	3.5	4.1	4.8	6.3	11.9	172.3	296.8	357.5
82.5°	2.6	3.0	3.3	3.7	4.3	4.6	5.6	7.4	79.5	196.3	222.1
85°	2.8	3.2	3.5	3.9	4.5	4.6	5.2	5.4	13.0	88.6	119.8
87.5°	3.0	3.3	3.7	4.1	4.8	4.8	4.8	4.8	4.5	9.5	24.1
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°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	911.1	932.1	946.7	950.4	939.9	935.0	921.7	900.9	888.2	887.7
5°	960.1	1009.3	1043.5	1049.2	1028.8	994.3	953.2	900.3	869.3	860.0
7.5°	951.7	1037.9	1092.9	1100.9	1066.5	1000.6	921.1	835.9	802.1	787.8
10°	917.4	1022.5	1101.0	1113.7	1067.8	975.0	873.9	778.8	736.9	725.9
12.5°	888.0	994.3	1064.1	1081.5	1046.8	954.2	845.7	742.3	697.3	687.1
15°	875.2	960.8	1003.6	1012.5	1006.7	941.2	842.7	736.7	685.3	674.1
17.5°	888.0	932.4	937.8	946.9	959.7	939.9	871.3	767.0	711.4	697.7
20°	921.7	907.7	885.4	889.3	918.7	945.2	922.2	834.0	766.4	751.7
22.5°	978.9	901.6	851.1	847.7	884.9	963.3	996.9	924.8	846.4	832.0
25°	1049.0	917.0	838.5	831.2	871.7	989.6	1078.0	1036.0	950.4	928.3
27.5°	1125.6	949.0	838.5	831.4	870.6	1013.0	1147.5	1134.5	1058.1	1034.0
30°	1167.5	975.3	850.5	842.5	884.3	1026.6	1184.6	1221.9	1139.1	1109.2
32.5°	1205.0	1011.9	874.1	859.1	913.1	1046.6	1217.9	1296.2	1203.6	1183.5
35°	1239.6	1051.1	906.6	889.2	951.0	1074.1	1254.6	1374.2	1293.3	1263.0
37.5°	1277.7	1096.6	957.3	942.5	1014.3	1127.6	1298.3	1476.7	1381.5	1343.4
40°	1319.1	1149.3	1040.7	1034.4	1115.0	1188.1	1353.4	1586.1	1482.1	1438.8
42.5°	1361.2	1210.1	1142.8	1153.2	1229.0	1273.0	1410.1	1670.2	1564.6	1516.8
45°	1399.5	1287.7	1275.6	1327.0	1362.0	1355.8	1452.0	1729.5	1636.4	1590.8
47.5°	1447.8	1400.8	1436.2	1515.5	1516.5	1445.9	1483.8	1777.9	1698.3	1652.6
50°	1501.8	1534.3	1643.7	1724.5	1702.7	1534.5	1520.9	1835.3	1762.2	1725.6
52.5°	1564.4	1683.8	1835.3	1925.0	1874.3	1631.0	1582.8	1897.4	1863.6	1828.5
55°	1637.2	1785.7	2026.4	2097.9	2046.8	1751.0	1676.7	1981.5	1978.1	1954.2
57.5°	1719.4	1893.5	2137.1	2233.8	2188.4	1891.8	1808.0	2060.8	2048.1	2034.8
59°	1784.4	1948.8	2185.9	2286.2	2258.7	1990.4	1896.2	2110.2	2064.3	2044.2
60°	1823.8	1986.3	2203.9	2293.3	2287.0	2049.1	1952.1	2134.3	2064.1	2036.3
62.5°	1940.6	2051.9	2197.1	2261.9	2286.6	2161.6	2116.1	2160.9	2025.9	1985.0
65°	1982.2	2030.1	2083.2	2075.3	2096.4	2155.9	2220.8	2131.7	1944.1	1886.0
67.5°	1901.3	1791.9	1810.6	1757.3	1746.9	1916.7	2178.3	1989.1	1784.3	1713.1
70°	1602.6	1372.7	1363.3	1387.8	1320.6	1551.8	1956.0	1714.4	1520.4	1439.8
72.5°	1261.5	970.1	890.3	980.5	978.5	1183.9	1624.9	1216.6	1027.1	1020.3
75°	992.0	675.4	592.8	607.4	635.7	857.0	1294.2	772.5	632.5	576.4
77.5°	665.9	478.6	446.4	428.4	458.9	550.2	818.8	419.0	354.7	335.9
80°	383.9	347.6	394.8	358.4	374.8	346.7	407.3	192.2	159.5	172.7
82.5°	249.8	198.0	211.0	156.7	214.3	216.2	130.7	56.8	48.1	51.1
85°	156.2	92.9	52.2	37.1	73.9	135.9	40.9	3.5	4.1	3.5
87.5°	40.5	15.4	6.5	9.7	11.9	10.6	9.5	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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