

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: P647719

Luminaire Tested: **GALN-SA1A-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2002.9 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

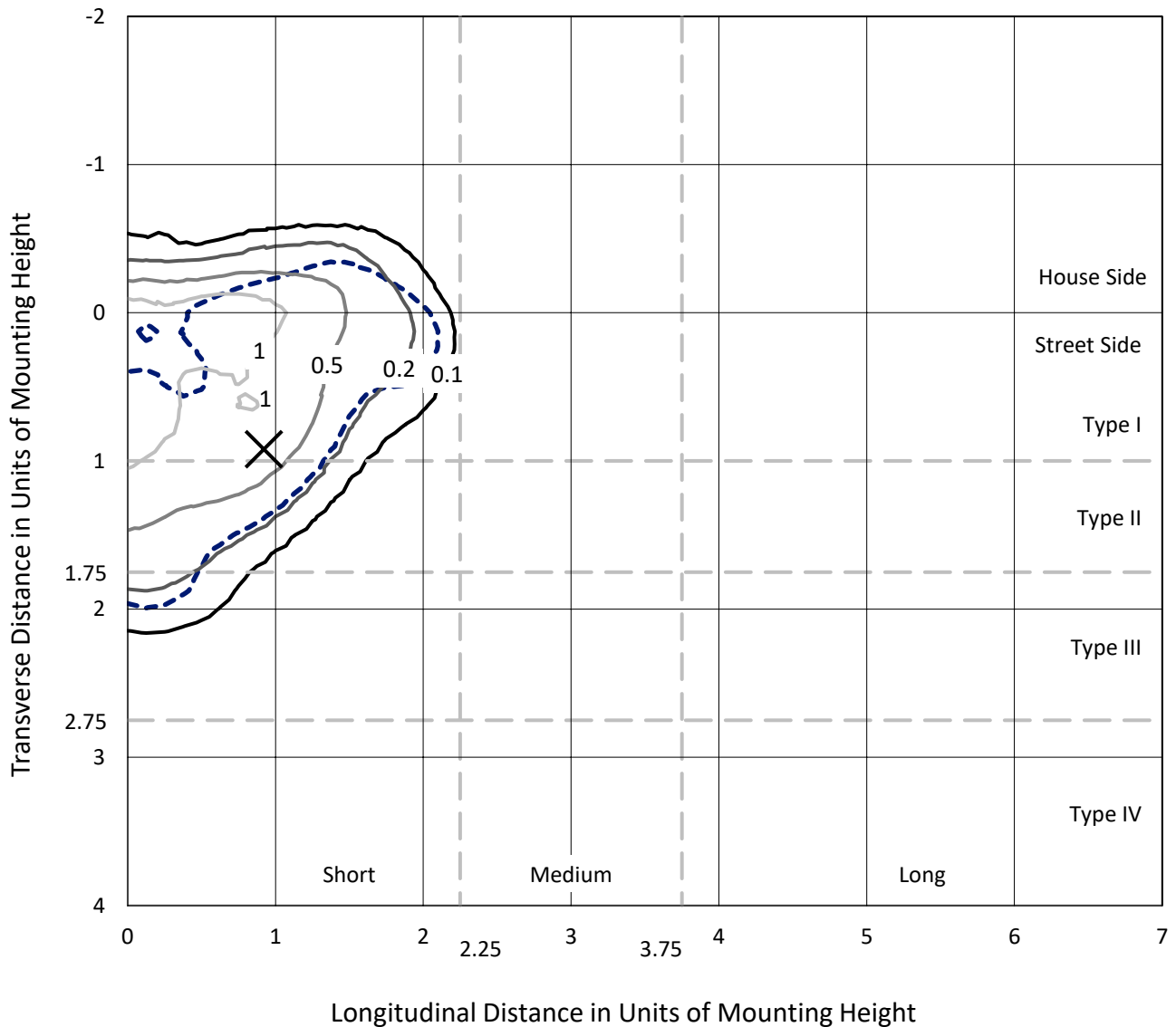
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

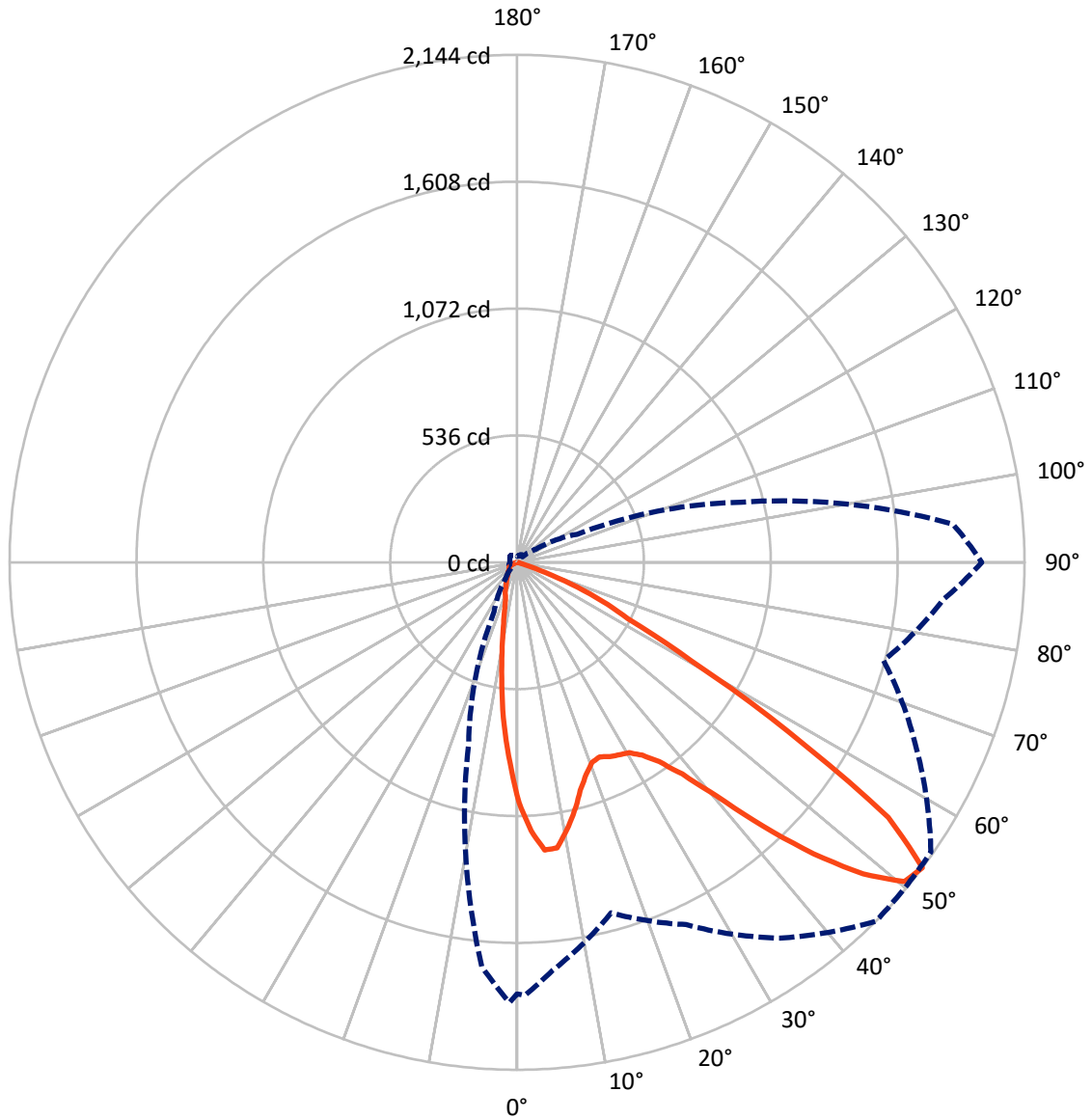
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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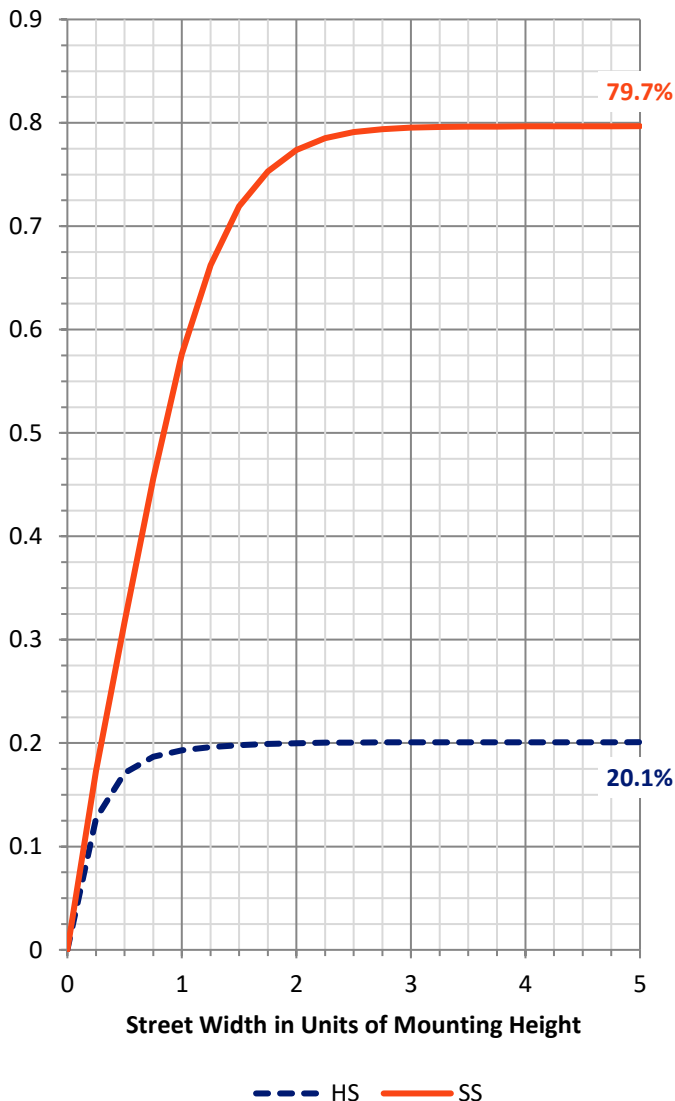
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	406.5	0.0	406.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	1596.4	0.0	1596.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	2002.9	0.0	2002.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.7
10°-20°	146.1	7.3
20°-30°	222.4	11.1
30°-40°	332.4	16.6
40°-50°	473.3	23.6
50°-60°	508.8	25.4
60°-70°	225.5	11.3
70°-80°	18.2	0.9
80°-90°	2.1	0.1
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°	2002.9	100.0
0°-180°	2002.9	100.0

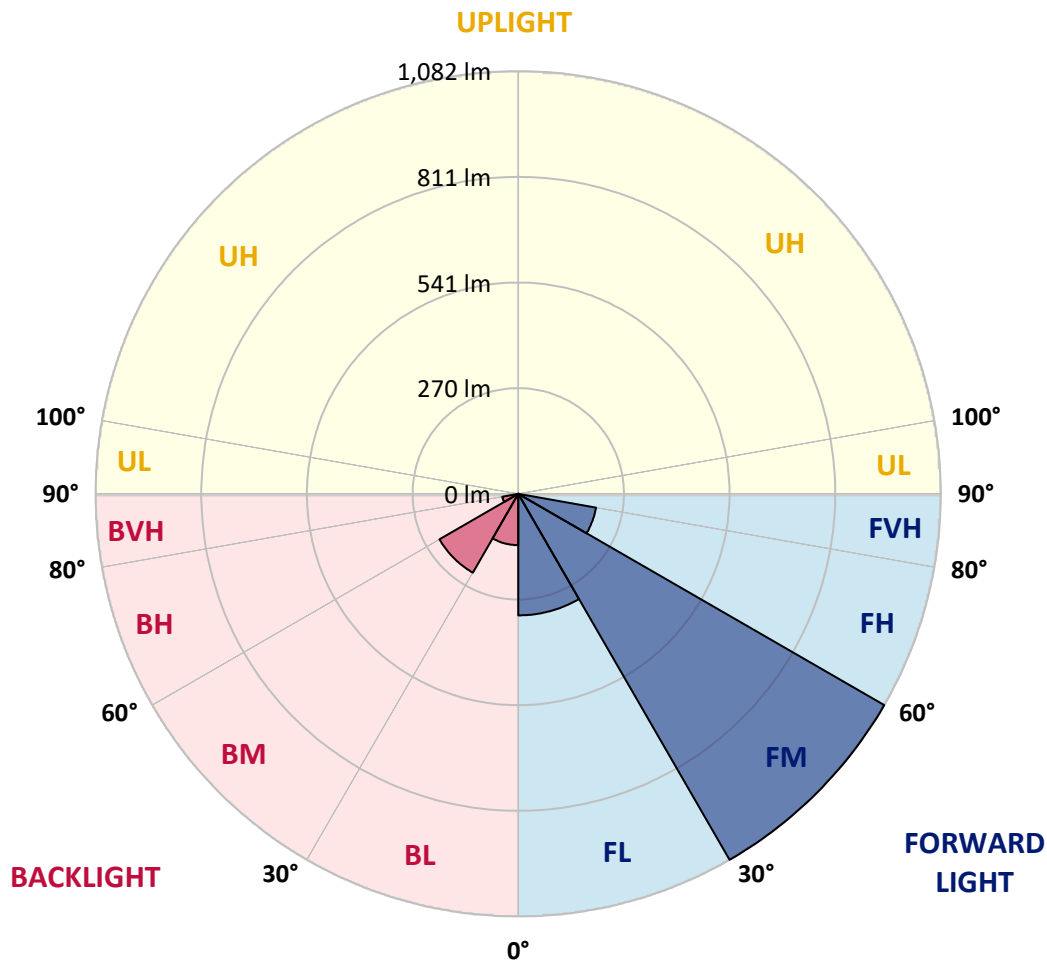


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.1	15.5			
FM (30°-60°)	1081.6	54.0			
FH (60°-80°)	202.1	10.1			G0/660
FVH (80°-90°)	1.6	0.1			G0/10
BL (0°-30°)	131.5	6.6	B1/500		
BM (30°-60°)	232.9	11.6	B1/1000		
BH (60°-80°)	41.6	2.1	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6
2.5°	1074.7	1077.8	1095.2	1116.8	1128.2	1154.2	1136.1	1140.8	1131.0	1096.4	1069.1
5°	1041.9	1041.5	1063.6	1117.2	1168.0	1219.6	1221.2	1193.6	1145.1	1092.0	1015.9
7.5°	943.5	958.9	981.7	1067.2	1161.3	1199.9	1218.4	1186.2	1111.7	1035.7	953.3
10°	869.1	876.9	915.5	1018.7	1087.7	1139.3	1150.7	1132.1	1075.1	980.1	887.9
12.5°	826.1	830.1	875.3	962.0	1034.9	1073.1	1078.6	1087.3	1046.3	957.3	846.6
15°	826.5	829.7	890.7	963.2	991.9	981.7	999.8	999.4	1017.1	952.9	881.3
17.5°	886.0	889.5	944.7	980.5	967.9	943.9	942.7	960.8	998.2	1006.9	933.6
20°	988.4	996.7	1037.2	1035.3	964.3	915.9	902.5	916.3	1003.3	1052.6	1039.2
22.5°	1126.3	1137.7	1166.0	1111.7	980.5	897.0	892.7	919.5	1037.2	1154.6	1159.0
25°	1286.2	1305.5	1319.3	1249.6	1038.0	929.7	909.2	955.3	1083.0	1265.3	1311.4
27.5°	1392.2	1412.3	1409.1	1309.4	1076.6	938.3	921.0	964.0	1122.7	1291.7	1391.0
30°	1474.9	1487.2	1509.2	1341.7	1115.2	962.8	933.3	1000.6	1135.7	1337.4	1487.2
32.5°	1571.4	1579.7	1581.3	1398.9	1174.7	993.5	971.1	1046.3	1193.2	1381.1	1572.2
35°	1668.7	1680.9	1655.3	1469.4	1211.4	1050.6	1034.1	1125.5	1239.3	1426.5	1666.0
37.5°	1774.3	1780.6	1721.5	1498.5	1263.8	1143.6	1134.6	1211.0	1319.3	1508.4	1770.0
40°	1862.9	1868.9	1792.1	1534.4	1318.9	1273.6	1296.8	1374.1	1428.0	1561.5	1822.0
42.5°	1912.2	1925.9	1815.6	1514.7	1429.6	1420.9	1524.1	1551.4	1554.1	1576.6	1868.5
45°	1925.6	1919.3	1776.6	1530.8	1526.5	1663.2	1757.0	1792.8	1679.4	1604.1	1880.3
47.5°	1863.7	1872.0	1719.2	1516.7	1653.8	1846.8	1968.1	2034.7	1772.7	1580.1	1851.1
50°	1813.7	1803.0	1700.6	1506.4	1688.0	1933.5	2120.6	2135.6	1858.6	1609.6	1819.2
52.5°	1823.5	1830.3	1730.2	1533.6	1688.8	1938.6	2144.2	2134.0	1861.3	1603.0	1807.8
55°	1844.4	1814.8	1717.6	1473.7	1575.8	1795.6	1903.1	1887.3	1718.0	1531.6	1779.8
57.5°	1591.5	1637.2	1579.3	1315.8	1293.3	1352.8	1350.8	1399.3	1281.5	1318.1	1620.3
60°	1291.7	1299.6	1321.2	1125.5	895.0	874.5	846.2	815.4	862.3	1127.1	1473.7
62.5°	1136.1	1126.7	1203.9	1023.9	631.9	529.1	524.3	543.2	665.4	1075.1	1382.3
65°	825.7	837.5	893.5	794.6	474.3	403.8	396.7	452.7	538.5	861.5	1054.9
67.5°	504.3	527.1	532.2	490.1	321.8	255.6	245.4	296.2	388.8	557.4	618.5
70°	232.8	260.4	286.4	267.5	186.4	105.2	99.3	124.5	196.2	320.6	328.2
72.5°	70.5	70.9	99.3	103.6	60.3	23.6	20.9	27.6	66.6	105.9	111.5
75°	5.1	5.5	13.4	15.3	11.4	5.9	6.3	7.5	14.2	23.6	17.7
77.5°	0.4	0.4	0.4	2.0	3.5	3.9	5.1	5.9	7.5	8.7	7.9
80°	0.4	0.0	0.4	1.6	2.7	3.9	4.7	5.5	5.9	6.7	5.9
82.5°	0.0	0.0	0.0	1.2	2.7	3.9	4.3	5.9	6.7	7.9	6.7
85°	0.0	0.0	0.0	1.2	2.7	4.3	3.9	2.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6
2.5°	1073.9	1058.5	1023.5	1005.7	964.0	958.1	917.0	910.4	896.6	889.1	871.0
5°	982.5	964.0	906.9	858.8	802.8	763.8	733.9	706.7	691.0	676.4	683.1
7.5°	908.0	854.0	790.6	710.3	645.7	603.9	558.2	520.8	498.7	483.7	487.3
10°	830.1	795.0	706.7	616.5	538.5	509.0	473.1	444.4	413.3	386.5	373.9
12.5°	805.6	753.6	642.9	551.2	492.0	463.3	422.3	389.2	349.5	316.7	305.3
15°	809.9	759.9	625.5	527.5	457.7	408.1	359.2	318.3	274.6	251.7	239.9
17.5°	880.5	793.8	637.0	502.7	410.1	341.2	280.9	228.9	196.2	172.6	167.4
20°	967.1	867.1	661.4	484.5	371.1	271.4	205.2	160.4	133.2	129.2	128.0
22.5°	1093.9	986.8	713.8	472.3	323.5	211.6	140.6	116.6	109.2	108.4	108.8
25°	1271.2	1136.9	770.9	462.1	287.6	163.1	115.0	98.9	96.5	95.4	97.3
27.5°	1348.1	1227.5	801.2	440.0	254.9	147.0	113.5	98.1	91.4	89.4	90.6
30°	1443.0	1287.8	848.9	402.2	206.8	121.0	105.9	106.7	103.6	93.7	90.6
32.5°	1569.1	1363.0	873.0	375.4	184.8	100.1	77.6	71.3	79.6	81.1	83.9
35°	1649.8	1439.5	885.2	359.6	173.4	85.5	65.8	59.9	57.9	58.3	59.9
37.5°	1799.9	1542.7	900.5	343.1	164.7	74.5	59.5	53.9	51.2	51.2	52.8
40°	1889.7	1624.6	921.4	334.0	156.0	67.7	53.9	49.3	46.9	46.9	47.7
42.5°	1912.2	1665.2	914.3	330.9	146.2	66.2	49.3	45.7	42.9	42.5	42.1
45°	1952.3	1727.0	915.5	327.4	135.9	60.3	46.5	42.5	38.6	38.2	37.8
47.5°	1996.5	1771.5	917.9	313.6	126.1	50.4	48.5	39.4	34.7	33.9	33.9
50°	1958.7	1807.0	938.3	299.8	113.5	41.0	47.7	37.0	30.7	29.5	29.9
52.5°	1963.4	1848.7	981.7	280.5	97.7	32.7	38.6	35.1	28.0	26.0	26.4
55°	1887.7	1804.7	987.6	260.0	76.4	25.2	29.5	30.7	23.6	22.9	22.9
57.5°	1625.0	1528.1	871.4	210.8	50.4	20.9	21.3	26.8	20.5	19.7	20.1
60°	1390.6	1226.7	701.2	139.1	31.5	16.5	15.3	27.2	18.1	17.7	18.9
62.5°	1267.7	1008.1	531.8	86.3	21.7	12.6	10.6	22.1	15.7	15.7	17.3
65°	915.9	677.2	309.2	45.3	15.3	9.9	7.9	12.6	13.0	13.4	14.2
67.5°	567.3	341.9	130.4	22.1	10.3	6.7	5.1	7.9	8.7	8.7	9.5
70°	280.1	136.3	43.3	12.6	7.9	5.5	3.5	4.3	4.3	3.9	4.3
72.5°	86.7	41.0	11.0	7.9	5.5	3.5	2.0	1.6	0.8	0.0	0.4
75°	9.9	7.9	7.1	5.5	3.5	1.6	0.4	0.0	0.0	0.0	0.0
77.5°	5.9	6.7	6.7	5.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0
80°	4.7	5.1	5.5	5.1	3.1	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	6.7	7.5	6.7	4.3	2.0	0.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.2	0.4	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6
2.5°	863.5	854.9	867.1	848.9	848.5	848.9	843.8	839.1	846.6	866.6	868.7
5°	659.1	677.6	683.5	702.8	692.2	676.4	679.6	668.9	694.9	706.3	697.3
7.5°	479.8	478.6	518.4	520.8	525.9	526.3	525.5	504.6	483.3	488.1	502.3
10°	372.2	352.2	371.5	369.5	382.1	378.6	383.7	361.3	368.7	368.7	377.8
12.5°	303.3	282.0	278.5	273.4	278.5	280.5	282.4	278.1	290.7	296.6	302.9
15°	231.6	219.8	216.7	206.8	208.4	213.9	218.6	220.6	216.7	225.7	226.5
17.5°	168.2	167.8	169.8	169.4	167.8	166.6	166.2	161.1	159.6	160.4	163.5
20°	127.6	130.8	137.5	144.2	147.8	143.4	137.5	128.8	125.3	126.1	126.5
22.5°	109.2	113.8	122.9	130.4	134.0	126.1	115.4	108.0	106.3	105.9	105.5
25°	98.9	104.4	111.1	113.5	113.1	108.4	100.5	97.3	96.5	95.8	92.2
27.5°	93.3	95.4	96.5	99.3	100.5	97.3	95.4	90.6	89.8	89.8	87.5
30°	90.2	89.0	90.6	88.6	90.2	87.9	88.2	88.2	86.3	87.1	87.1
32.5°	83.9	84.3	84.3	80.3	81.5	78.8	81.5	83.9	84.3	84.7	87.9
35°	61.5	68.5	72.1	72.1	73.3	71.3	70.9	68.1	64.6	61.1	59.5
37.5°	53.9	56.7	61.5	64.2	66.2	64.6	61.1	56.7	54.7	53.2	51.6
40°	48.1	50.4	53.6	56.7	60.7	58.7	53.2	51.2	48.9	48.9	47.3
42.5°	43.3	44.6	46.5	51.2	55.5	51.6	47.7	46.1	44.9	44.6	44.1
45°	39.0	39.4	41.3	45.3	50.4	46.5	42.5	40.6	41.0	41.3	41.0
47.5°	35.1	35.9	37.0	41.7	44.9	42.9	38.6	37.4	37.4	37.4	37.8
50°	30.3	32.3	34.7	38.6	41.0	39.8	36.3	34.7	33.9	33.9	34.3
52.5°	27.2	28.7	31.9	36.6	39.8	37.8	34.3	31.9	30.3	29.9	30.7
55°	23.6	26.4	31.5	35.1	39.4	37.4	33.5	30.7	28.0	27.6	27.6
57.5°	21.3	25.6	30.3	34.7	38.2	36.6	33.5	29.9	26.4	26.0	26.0
60°	20.1	24.8	29.5	33.5	38.2	35.9	33.1	29.1	25.2	25.2	24.8
62.5°	18.9	23.3	28.0	31.9	36.6	34.7	31.9	28.0	24.0	24.0	23.3
65°	15.7	20.1	23.3	26.8	31.9	29.9	27.2	24.4	21.3	20.5	20.9
67.5°	11.0	13.8	16.9	20.5	23.6	22.9	21.7	19.7	16.9	16.5	16.1
70°	5.5	7.5	10.3	13.8	16.5	15.7	15.0	13.4	11.8	11.4	11.4
72.5°	0.8	2.3	4.3	6.3	8.7	9.1	8.7	8.3	7.9	7.5	7.9
75°	0.0	0.0	0.0	1.6	3.5	4.3	5.1	5.9	5.9	5.1	6.3
77.5°	0.0	0.0	0.0	0.0	0.4	2.0	3.9	5.1	6.3	5.5	7.5
80°	0.0	0.0	0.0	0.0	0.4	2.3	3.9	5.5	6.3	5.5	7.9
82.5°	0.0	0.0	0.0	0.0	0.4	2.7	3.9	5.1	5.9	5.5	7.1
85°	0.0	0.0	0.0	0.0	1.2	2.3	1.6	0.8	0.4	0.4	1.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6
2.5°	879.7	907.7	937.6	949.0	984.5	1011.2	1029.3	1068.3	1074.3	1074.7
5°	706.7	720.9	772.1	796.2	848.9	889.9	933.6	996.7	1038.8	1041.9
7.5°	502.3	541.7	563.4	625.9	691.0	755.2	820.2	893.5	942.3	943.5
10°	404.2	429.8	468.4	515.3	570.0	635.4	722.1	807.2	856.8	869.1
12.5°	325.4	370.3	414.4	462.9	504.6	553.9	647.2	760.7	801.6	826.1
15°	250.6	291.5	343.5	400.3	447.5	513.3	619.7	749.3	818.2	826.5
17.5°	184.8	221.4	269.4	323.1	393.9	487.3	624.4	807.2	872.2	886.0
20°	132.7	154.0	191.8	254.1	344.3	457.0	629.1	865.8	964.7	988.4
22.5°	105.2	113.8	138.7	193.8	288.8	425.1	662.6	978.1	1092.0	1126.3
25°	91.4	96.2	108.0	152.8	253.7	421.9	716.2	1112.9	1261.4	1286.2
27.5°	88.2	89.0	99.3	140.2	234.8	401.1	736.6	1208.6	1367.0	1392.2
30°	92.9	105.5	106.3	118.5	199.7	359.6	747.3	1301.2	1456.4	1474.9
32.5°	80.3	76.4	79.2	91.8	175.7	335.7	767.4	1381.9	1558.4	1571.4
35°	55.9	58.7	65.0	79.6	153.6	310.5	772.5	1470.9	1655.3	1668.7
37.5°	51.6	53.2	58.3	67.7	135.1	296.2	765.4	1535.9	1755.8	1774.3
40°	48.1	50.0	52.8	61.5	121.4	280.5	755.6	1594.7	1817.3	1862.9
42.5°	45.3	46.9	49.3	58.7	109.5	264.7	741.8	1677.4	1872.4	1912.2
45°	42.1	44.6	47.3	57.2	102.8	254.1	731.6	1672.3	1904.3	1925.6
47.5°	39.0	42.9	46.1	53.2	100.9	249.0	735.9	1653.0	1878.3	1863.7
50°	35.9	41.0	46.5	44.1	96.2	238.7	741.0	1679.4	1816.5	1813.7
52.5°	33.1	39.0	43.3	36.3	85.5	228.9	790.6	1714.0	1860.2	1823.5
55°	29.1	35.1	34.7	29.1	69.3	221.4	829.7	1714.8	1830.7	1844.4
57.5°	26.4	31.1	27.2	24.4	51.2	185.2	766.2	1437.9	1567.1	1591.5
60°	24.4	30.3	20.5	19.3	33.5	133.6	668.9	1113.7	1245.6	1291.7
62.5°	22.5	28.7	16.1	15.7	23.3	95.0	549.9	932.1	1073.5	1136.1
65°	19.7	20.5	13.0	12.2	16.5	51.2	334.8	641.7	802.4	825.7
67.5°	16.1	15.7	10.6	9.9	11.0	24.8	147.8	321.4	465.3	504.3
70°	13.0	13.0	9.1	7.9	7.9	11.4	38.6	128.0	210.4	232.8
72.5°	9.5	9.9	7.1	6.3	5.9	5.5	6.3	25.6	55.1	70.5
75°	8.3	8.7	7.1	5.5	4.3	3.5	2.7	2.3	3.1	5.1
77.5°	9.1	9.1	7.5	5.1	3.9	2.7	1.6	0.8	0.8	0.4
80°	11.4	11.8	9.9	6.7	4.7	3.1	2.0	0.8	0.4	0.4
82.5°	12.2	13.4	11.0	8.3	5.9	3.5	2.0	0.4	0.0	0.0
85°	3.1	5.1	8.7	7.5	5.9	3.5	2.0	0.4	0.0	0.0
87.5°	0.0	0.4	1.2	1.2	1.6	1.6	1.2	0.4	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

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