

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: P450321

Luminaire Tested: **GALN-SA1A-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3989 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

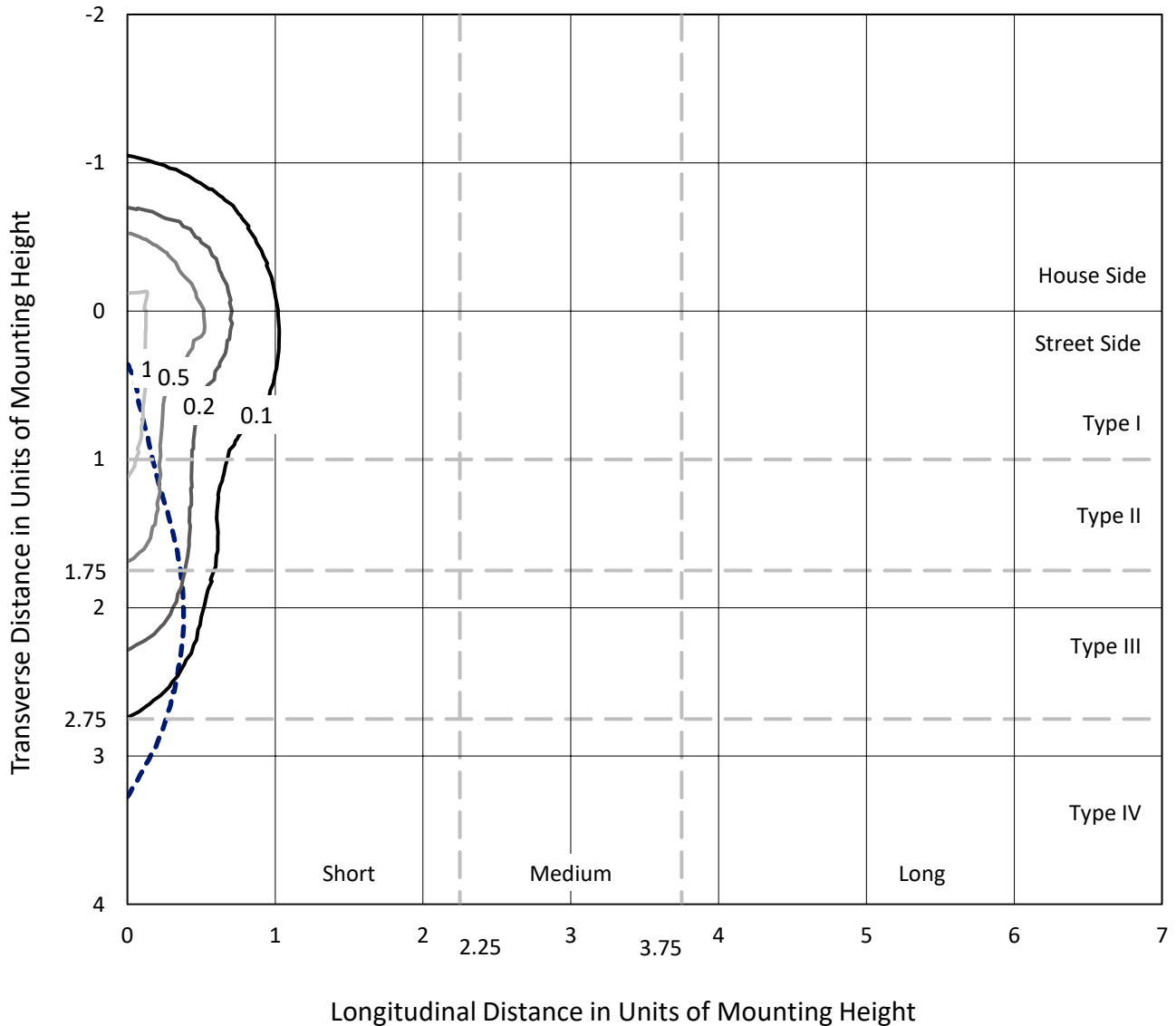
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

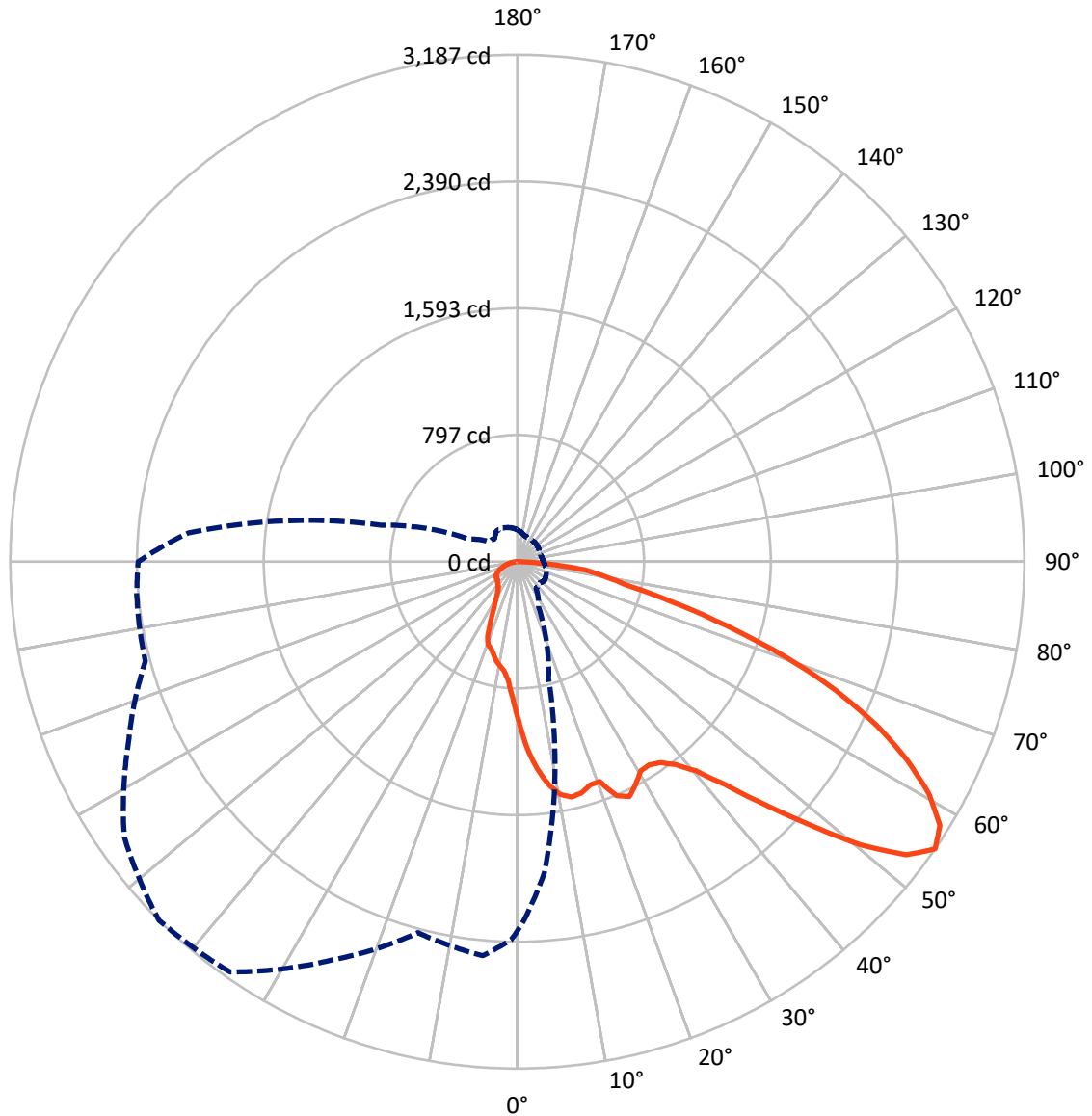
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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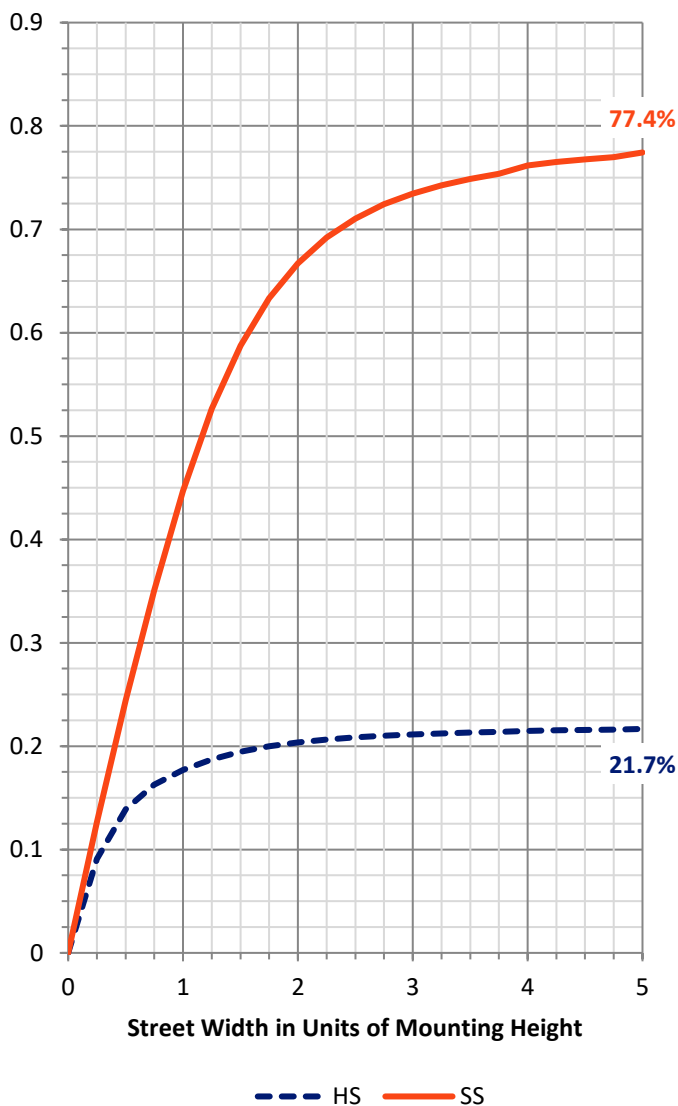
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.6	0.0	872.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3116.4	0.0	3116.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	3989.0	0.0	3989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	2.1
10°-20°	225.1	5.6
20°-30°	388.9	9.7
30°-40°	451.9	11.3
40°-50°	630.5	15.8
50°-60°	855.5	21.4
60°-70°	814.0	20.4
70°-80°	439.7	11.0
80°-90°	98.5	2.5
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°	3989.0	100.0
0°-180°	3989.0	100.0

Coefficient of Utilization



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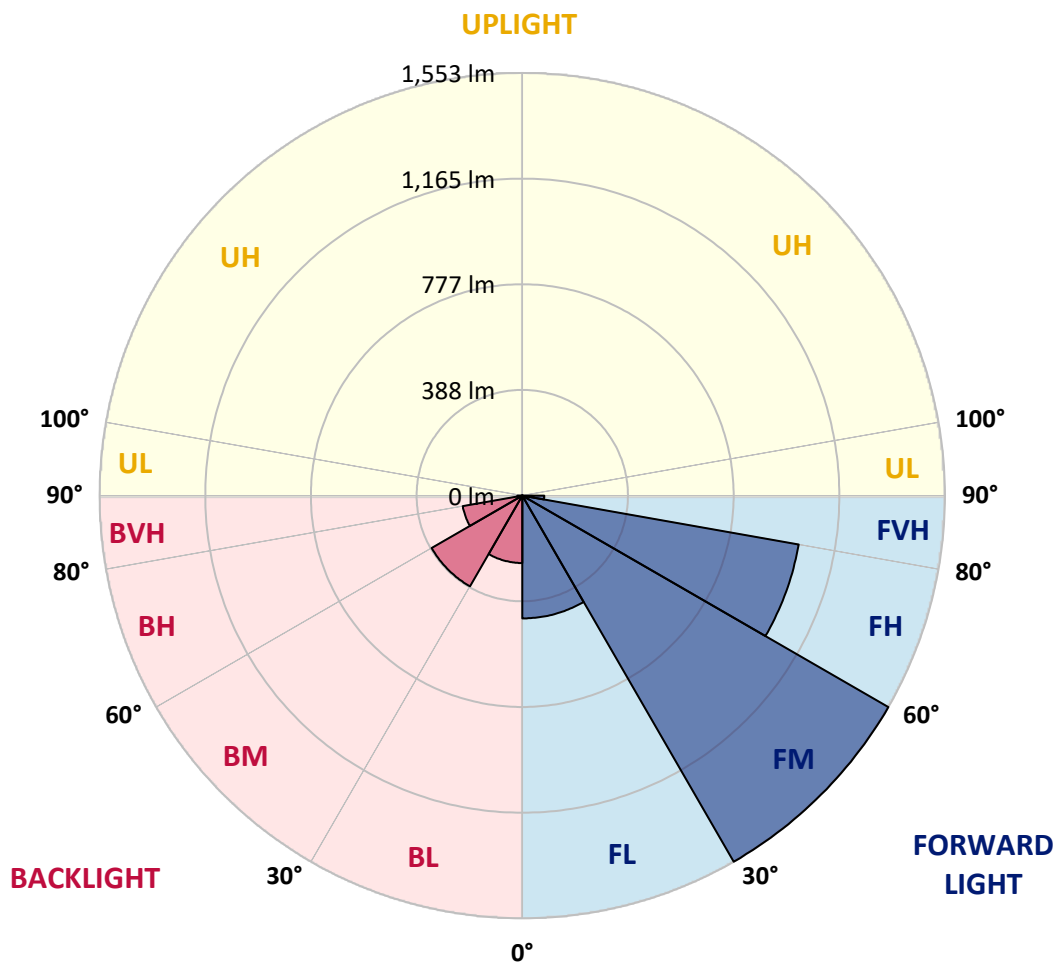
CATALOG NUMBER: GALN-SA1A-760-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.2	11.3			
FM	(30°-60°)	1553.2	38.9			
FH	(60°-80°)	1031.5	25.9			G1/1800
FVH	(80°-90°)	80.5	2.0			G1/100
BL	(0°-30°)	247.6	6.2	B1/500		
BM	(30°-60°)	384.7	9.6	B1/1000		
BH	(60°-80°)	222.2	5.6	B1/500		G1/500
BVH	(80°-90°)	18.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1
2.5°	1112.1	1107.9	1096.1	1065.0	1033.7	1001.9	977.4	946.9	915.0	897.9	876.1
5°	1127.4	1122.7	1094.8	1024.8	961.3	894.8	841.6	795.0	776.1	748.2	725.8
7.5°	1091.6	1089.5	1047.7	947.1	860.3	773.2	712.9	675.5	641.6	629.0	631.6
10°	1059.0	1050.6	998.2	866.9	765.5	694.8	651.6	615.0	591.1	584.8	586.1
12.5°	1031.9	1020.6	958.7	812.9	724.2	667.7	612.7	574.5	552.6	558.7	579.2
15°	1026.3	1011.1	942.1	794.5	701.6	628.7	568.4	524.5	508.2	521.3	554.2
17.5°	1062.1	1042.9	970.6	800.6	680.0	589.0	515.0	464.8	451.1	472.1	515.0
20°	1177.1	1148.7	1059.2	835.6	677.9	569.2	484.0	433.4	439.2	479.2	524.0
22.5°	1389.8	1347.1	1214.5	886.6	689.0	564.2	477.6	451.3	483.2	517.1	546.6
25°	1431.9	1398.5	1242.4	898.2	686.6	560.8	495.5	508.7	544.2	561.1	550.8
27.5°	1455.6	1417.4	1240.6	840.8	614.0	508.7	473.7	495.5	504.5	488.2	460.3
30°	1510.8	1471.1	1271.9	780.6	505.5	377.4	330.8	321.9	327.9	331.1	321.1
32.5°	1586.9	1547.7	1330.8	741.1	437.1	312.1	266.3	253.7	250.8	247.4	243.4
35°	1685.3	1625.0	1388.7	715.8	409.0	288.7	246.6	236.8	232.9	228.2	224.0
37.5°	1785.3	1722.2	1461.9	689.2	390.3	272.4	233.4	229.0	222.1	217.1	211.1
40°	1891.6	1820.8	1528.5	666.1	372.1	261.9	224.0	223.4	214.5	208.7	201.6
42.5°	1983.7	1910.8	1587.9	651.9	358.2	250.8	218.2	219.7	210.5	201.8	192.6
45°	2056.9	1985.3	1642.9	651.9	346.9	239.7	217.1	216.1	206.8	196.1	185.5
47.5°	2121.1	2047.2	1696.6	668.4	339.7	230.5	211.3	213.2	203.7	190.0	179.7
50°	2170.9	2105.6	1769.0	694.2	332.6	223.2	204.0	214.0	201.1	186.8	175.0
52.5°	2234.3	2175.9	1856.1	729.5	326.6	215.0	197.4	214.0	200.8	187.1	174.2
55°	2322.2	2260.6	1961.1	758.7	316.9	207.4	191.6	207.9	200.0	185.8	172.1
57.5°	2383.8	2337.7	2035.3	778.2	302.9	197.6	186.3	202.1	196.6	180.8	165.8
58°	2386.7	2341.7	2046.1	782.7	299.5	195.8	185.0	199.5	195.0	178.7	163.7
60°	2353.5	2314.8	2048.2	776.3	280.0	186.6	178.2	188.7	186.6	166.3	152.4
62.5°	2233.0	2191.6	1963.2	725.0	254.2	175.3	167.6	174.2	169.5	149.0	136.1
65°	2061.6	1985.6	1788.5	644.5	235.8	163.2	153.4	154.0	149.0	134.2	122.9
67.5°	1833.5	1748.5	1514.3	543.2	221.8	149.7	136.6	135.3	129.2	119.7	110.5
70°	1552.7	1494.5	1230.6	441.9	206.3	135.0	117.6	116.8	113.2	106.1	97.9
72.5°	1258.5	1184.5	993.7	353.7	187.4	120.8	100.0	101.6	96.8	91.8	84.5
75°	928.7	880.3	768.2	283.7	161.8	105.3	83.4	83.9	81.8	76.6	70.8
77.5°	611.6	597.1	549.5	186.3	124.5	83.7	68.2	68.7	67.1	62.4	56.3
80°	411.6	401.9	372.4	120.0	83.2	60.5	52.6	53.2	52.9	47.9	39.7
82.5°	253.7	249.5	240.0	81.1	57.6	43.4	34.7	36.3	39.2	33.7	27.1
85°	119.7	120.0	145.0	44.2	33.9	27.9	18.9	20.3	20.3	20.3	15.3
87.5°	15.5	16.3	20.0	18.7	12.4	10.5	6.8	5.8	5.0	6.6	4.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1
2.5°	868.4	863.2	851.9	849.2	847.7	852.1	840.3	843.4	838.2	852.9	850.6
5°	727.1	727.7	736.9	742.9	745.0	742.9	735.0	721.3	710.8	706.6	707.7
7.5°	626.6	635.8	651.6	669.2	685.3	690.0	685.5	659.5	631.1	613.2	607.4
10°	593.2	605.5	623.7	637.7	651.9	663.2	665.5	645.3	611.6	569.2	552.6
12.5°	595.0	611.9	629.2	633.7	632.4	636.9	634.8	631.3	609.2	555.3	527.6
15°	577.6	597.6	609.8	607.4	603.2	599.2	593.7	585.0	577.1	539.2	508.7
17.5°	537.6	558.2	568.2	569.0	569.0	567.9	554.5	551.3	550.3	531.9	513.2
20°	545.0	556.3	551.9	544.5	546.6	553.7	545.8	544.2	550.3	558.4	555.0
22.5°	549.2	545.3	511.6	479.0	471.6	493.7	498.2	515.8	540.3	569.8	589.0
25°	523.2	491.3	431.1	394.2	373.4	394.0	420.8	453.4	490.0	527.9	550.3
27.5°	437.4	413.2	370.0	336.9	318.7	321.9	344.7	374.5	408.4	434.0	450.3
30°	329.5	318.7	296.3	285.0	274.0	271.3	281.1	292.4	307.4	310.5	314.7
32.5°	242.6	241.1	242.4	238.7	236.6	236.3	233.4	236.1	237.6	239.5	235.8
35°	219.5	217.4	213.7	212.6	211.3	211.8	210.5	209.2	210.3	211.8	212.9
37.5°	207.6	204.5	199.2	197.4	197.4	198.2	196.1	195.5	197.4	202.4	205.0
40°	198.4	194.7	188.7	186.3	187.9	190.0	187.1	186.1	190.5	195.8	200.0
42.5°	189.7	186.8	181.1	178.4	179.7	183.7	179.5	178.7	184.5	190.3	195.3
45°	182.4	179.5	174.2	172.9	173.4	177.1	174.2	174.2	179.7	186.1	190.5
47.5°	176.6	172.9	169.5	168.4	169.0	171.1	170.5	170.5	175.8	182.4	186.8
50°	170.8	167.6	163.2	163.7	165.0	167.9	167.6	168.4	173.7	181.8	186.6
52.5°	168.2	163.4	158.4	159.0	162.9	166.3	165.3	166.1	172.1	187.4	194.2
55°	165.3	159.0	153.2	154.0	158.4	163.4	162.1	163.2	170.3	191.1	200.5
57.5°	159.7	152.4	146.1	146.6	153.2	158.4	156.3	157.6	166.1	187.1	197.1
58°	157.4	151.1	145.0	145.3	151.6	157.4	155.0	156.1	164.7	186.1	195.5
60°	147.4	143.7	138.4	138.7	144.7	149.7	148.4	149.5	157.9	178.4	185.5
62.5°	133.7	131.6	130.3	130.3	134.0	138.7	140.0	141.3	149.0	161.3	167.6
65°	119.0	119.0	119.2	119.2	121.6	127.6	128.4	131.8	139.0	145.0	149.7
67.5°	109.0	108.4	109.0	107.6	108.7	112.4	116.3	119.5	126.8	131.1	132.6
70°	96.1	95.8	96.1	94.2	95.5	98.7	101.3	106.6	114.2	117.4	118.2
72.5°	83.4	83.4	83.9	82.6	82.6	86.1	87.9	93.7	100.8	102.6	102.9
75°	70.3	71.1	71.1	69.2	69.7	71.8	74.2	78.9	85.5	86.8	86.8
77.5°	55.8	58.7	58.7	56.8	57.6	57.9	61.1	63.4	68.4	68.9	66.8
80°	40.5	43.4	45.8	44.2	45.5	43.9	45.8	47.4	52.4	50.0	46.6
82.5°	28.9	31.1	32.9	33.2	31.8	28.9	31.3	31.6	33.9	30.8	28.9
85°	16.1	17.9	20.3	19.2	17.1	15.3	16.1	16.6	16.3	15.5	14.5
87.5°	4.2	4.5	5.0	3.7	3.4	2.9	3.9	3.9	4.5	4.7	4.5
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°	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1
2.5°	852.4	864.0	889.0	907.9	931.1	959.2	992.4	1025.8	1061.9	1073.2	1089.0
5°	705.3	734.2	746.3	780.8	815.0	866.3	921.1	984.5	1054.0	1087.4	1119.5
7.5°	602.6	618.2	630.8	656.1	697.1	759.5	828.2	907.4	1005.8	1054.5	1101.6
10°	547.4	549.0	564.5	595.8	631.6	686.6	751.6	840.3	950.0	1009.2	1064.5
12.5°	510.8	504.0	520.8	553.4	594.0	644.8	704.5	789.0	909.8	970.6	1037.4
15°	478.7	467.9	480.5	514.0	554.0	613.7	677.9	767.4	894.0	964.8	1039.0
17.5°	479.5	449.8	454.2	482.4	522.1	582.9	660.8	766.6	917.9	999.5	1087.4
20°	538.7	491.1	470.8	476.1	514.5	580.8	668.7	803.4	996.6	1115.6	1209.5
22.5°	596.9	568.2	535.5	524.8	545.8	615.3	719.0	890.6	1167.7	1346.9	1516.6
25°	576.6	601.1	592.9	577.6	582.4	640.0	753.2	962.1	1300.6	1502.4	1661.9
27.5°	461.3	505.8	514.8	514.5	516.3	563.7	677.4	914.0	1317.1	1532.2	1684.5
30°	324.2	328.2	332.9	342.1	350.5	392.9	530.0	802.4	1309.8	1545.6	1698.2
32.5°	234.0	239.2	245.8	258.4	278.4	332.4	463.7	766.9	1348.7	1601.1	1738.2
35°	214.0	220.0	226.3	240.8	259.7	309.7	437.4	752.1	1412.7	1691.1	1810.1
37.5°	207.6	214.5	220.0	230.5	245.8	293.4	413.4	742.1	1478.2	1786.4	1906.4
40°	203.2	211.1	215.5	224.0	234.5	278.4	392.1	734.2	1541.6	1873.5	1983.7
42.5°	199.2	207.4	213.2	219.2	227.9	265.0	373.2	726.3	1596.6	1958.0	2060.9
45°	194.5	204.7	212.1	216.8	224.5	253.7	358.7	720.0	1659.3	2033.0	2138.7
47.5°	190.5	201.8	211.1	216.6	219.5	245.8	347.1	728.7	1734.5	2111.4	2211.1
50°	190.8	201.6	213.2	221.8	214.2	239.2	340.0	763.2	1832.4	2204.5	2268.2
52.5°	199.2	212.4	221.6	223.7	206.8	231.3	336.3	823.4	1948.2	2286.9	2325.9
55°	208.7	222.4	232.4	231.1	202.9	221.3	335.5	887.7	2075.1	2383.0	2400.9
57.5°	205.3	225.3	240.5	233.7	203.2	211.6	332.1	939.5	2181.1	2454.8	2475.1
58°	204.2	224.2	241.6	233.2	202.4	208.7	331.3	944.0	2195.9	2459.8	2485.6
60°	194.0	215.0	240.8	229.2	197.9	200.8	322.6	958.5	2191.9	2434.0	2491.9
62.5°	175.3	192.6	222.6	210.0	184.2	190.3	303.2	940.6	2085.1	2309.8	2399.5
65°	154.2	167.1	187.1	184.7	164.7	179.5	276.6	869.8	1871.1	2108.2	2202.7
67.5°	138.4	149.0	161.6	158.2	148.2	165.0	247.9	750.0	1631.1	1866.1	1985.1
70°	122.4	130.5	136.8	134.5	131.3	150.8	222.4	608.7	1401.1	1636.1	1751.4
72.5°	106.1	113.7	119.0	115.5	113.7	135.8	201.6	472.4	1106.6	1349.8	1497.9
75°	88.7	96.3	100.0	96.1	95.0	119.7	170.8	352.9	830.3	1040.6	1168.5
77.5°	68.7	76.8	81.6	80.3	80.8	98.4	137.9	241.6	593.7	709.2	844.0
80°	48.2	57.1	60.3	58.9	62.6	75.0	97.4	153.4	409.5	460.3	555.3
82.5°	29.7	38.2	38.7	40.0	42.6	55.5	73.4	93.4	257.1	265.8	334.7
85°	15.0	18.2	19.5	21.6	23.9	33.9	41.8	57.9	165.5	125.3	187.1
87.5°	5.0	5.3	6.3	7.9	9.7	13.9	17.9	23.7	41.1	22.6	57.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1
2.5°	1120.8	1143.2	1159.5	1174.5	1160.0	1158.7	1144.5	1121.6	1112.1	1112.1
5°	1186.9	1239.2	1281.6	1308.7	1297.1	1269.2	1223.2	1164.5	1132.9	1127.4
7.5°	1205.0	1308.5	1387.1	1415.0	1395.6	1334.0	1245.8	1146.9	1101.6	1091.6
10°	1194.0	1328.5	1444.0	1488.2	1461.1	1367.9	1247.7	1126.4	1070.6	1059.0
12.5°	1182.4	1331.1	1454.5	1518.5	1500.8	1395.3	1261.1	1112.9	1048.5	1031.9
15°	1190.8	1332.1	1441.6	1507.7	1519.0	1428.2	1283.2	1122.7	1044.0	1026.3
17.5°	1244.0	1352.1	1423.2	1476.6	1516.4	1472.9	1346.1	1169.2	1084.0	1062.1
20°	1355.0	1400.0	1433.7	1475.0	1539.0	1564.3	1474.8	1297.1	1196.4	1177.1
22.5°	1676.6	1668.5	1599.5	1598.7	1691.4	1792.7	1786.6	1557.2	1405.6	1389.8
25°	1797.2	1759.3	1659.5	1635.3	1676.1	1832.4	1809.8	1610.3	1470.3	1431.9
27.5°	1750.1	1656.1	1590.6	1585.0	1571.6	1719.3	1773.7	1631.9	1492.9	1455.6
30°	1747.2	1609.0	1515.3	1526.4	1539.3	1680.3	1793.7	1699.5	1550.8	1510.8
32.5°	1754.3	1615.6	1520.8	1522.9	1561.4	1686.1	1815.8	1773.2	1626.9	1586.9
35°	1782.9	1652.9	1556.1	1551.1	1611.1	1724.0	1853.5	1889.0	1730.8	1685.3
37.5°	1829.3	1727.4	1620.6	1619.3	1706.4	1792.4	1900.3	2005.9	1834.3	1785.3
40°	1897.4	1814.5	1735.3	1728.2	1835.8	1903.7	1961.1	2130.3	1954.5	1891.6
42.5°	1979.8	1919.0	1886.6	1914.8	2018.2	2028.7	2055.9	2245.3	2056.9	1983.7
45°	2056.1	2053.2	2098.2	2173.0	2233.2	2170.1	2154.8	2322.4	2136.4	2056.9
47.5°	2146.9	2225.3	2361.1	2470.6	2533.8	2334.5	2239.3	2372.7	2194.3	2121.1
50°	2239.0	2431.4	2648.2	2800.9	2814.3	2513.2	2297.4	2420.1	2246.9	2170.9
52.5°	2335.9	2595.9	2884.6	3061.9	3035.9	2668.8	2353.8	2452.2	2301.1	2234.3
55°	2420.1	2696.7	3016.7	3186.9	3148.8	2763.5	2414.5	2486.9	2378.5	2322.2
57.5°	2467.2	2705.1	2983.8	3132.5	3091.1	2745.1	2442.4	2512.7	2428.0	2383.8
58°	2474.0	2693.8	2954.6	3100.9	3058.8	2729.6	2442.2	2511.7	2431.1	2386.7
60°	2468.0	2620.3	2845.9	2976.1	2931.9	2632.2	2432.2	2491.9	2391.1	2353.5
62.5°	2411.9	2493.0	2658.2	2753.0	2740.3	2480.1	2391.1	2417.4	2269.3	2233.0
65°	2338.2	2319.3	2418.0	2485.1	2494.5	2366.1	2350.3	2256.4	2113.0	2061.6
67.5°	2248.8	2122.4	2122.2	2160.3	2176.1	2190.9	2265.3	2081.4	1887.7	1833.5
70°	2096.9	1819.0	1735.3	1780.3	1767.2	1891.6	2113.5	1835.6	1616.1	1552.7
72.5°	1818.5	1443.5	1309.5	1367.4	1334.3	1483.5	1849.3	1510.6	1336.4	1258.5
75°	1474.0	1079.8	941.6	994.8	974.2	1125.3	1538.7	1097.1	958.5	928.7
77.5°	1144.5	782.4	702.1	694.8	710.0	837.4	1128.7	740.8	631.9	611.6
80°	735.3	560.0	564.8	555.3	563.2	527.9	685.3	472.6	427.9	411.6
82.5°	484.0	390.3	465.3	429.5	407.9	355.0	449.5	309.5	262.6	253.7
85°	329.7	287.4	261.6	200.0	235.5	273.4	337.1	166.6	132.1	119.7
87.5°	149.0	100.0	73.4	45.3	71.6	82.6	163.7	19.5	15.0	15.5
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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