

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: P450812

Luminaire Tested: **GALN-SA1C-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4508 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

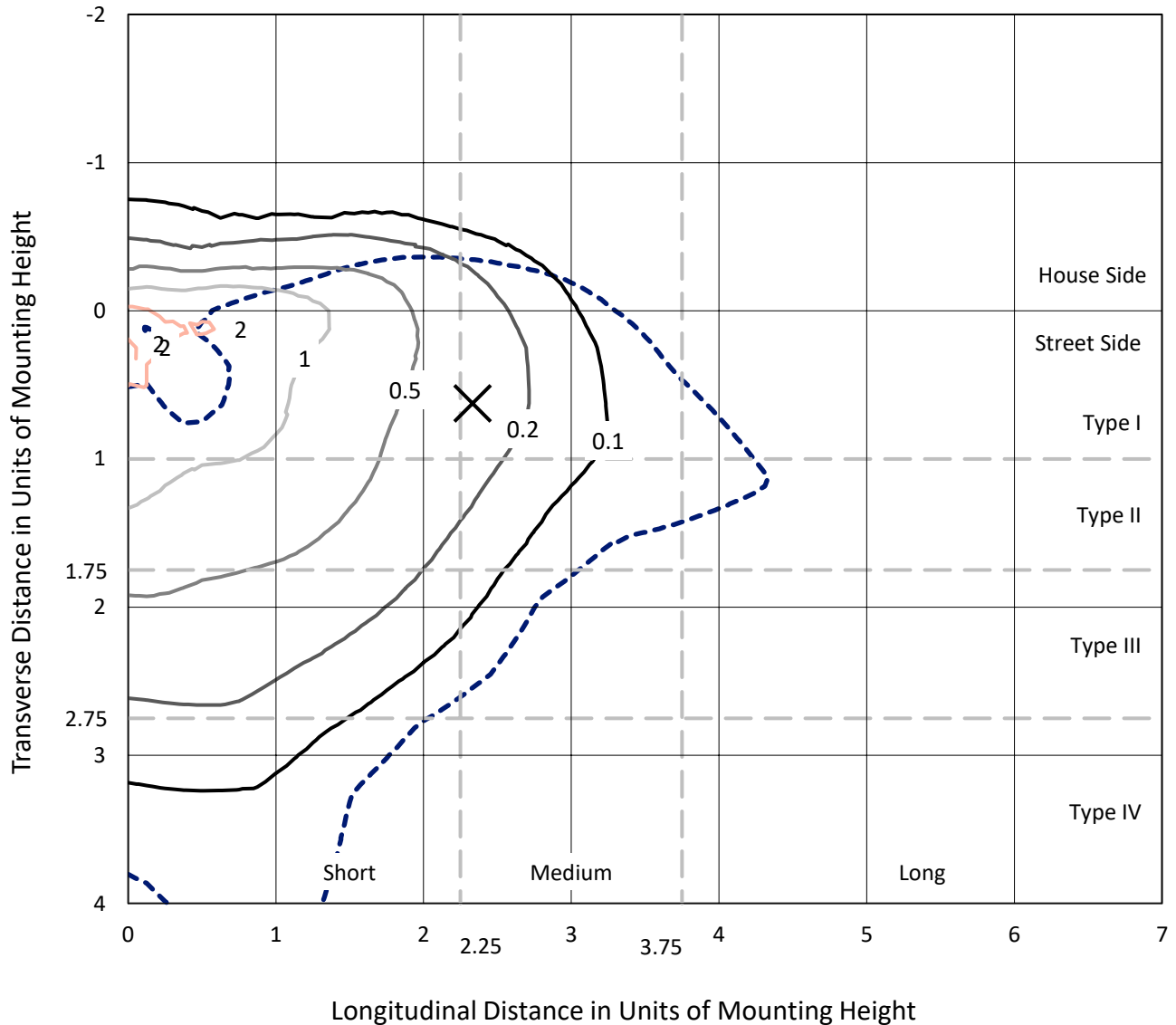
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

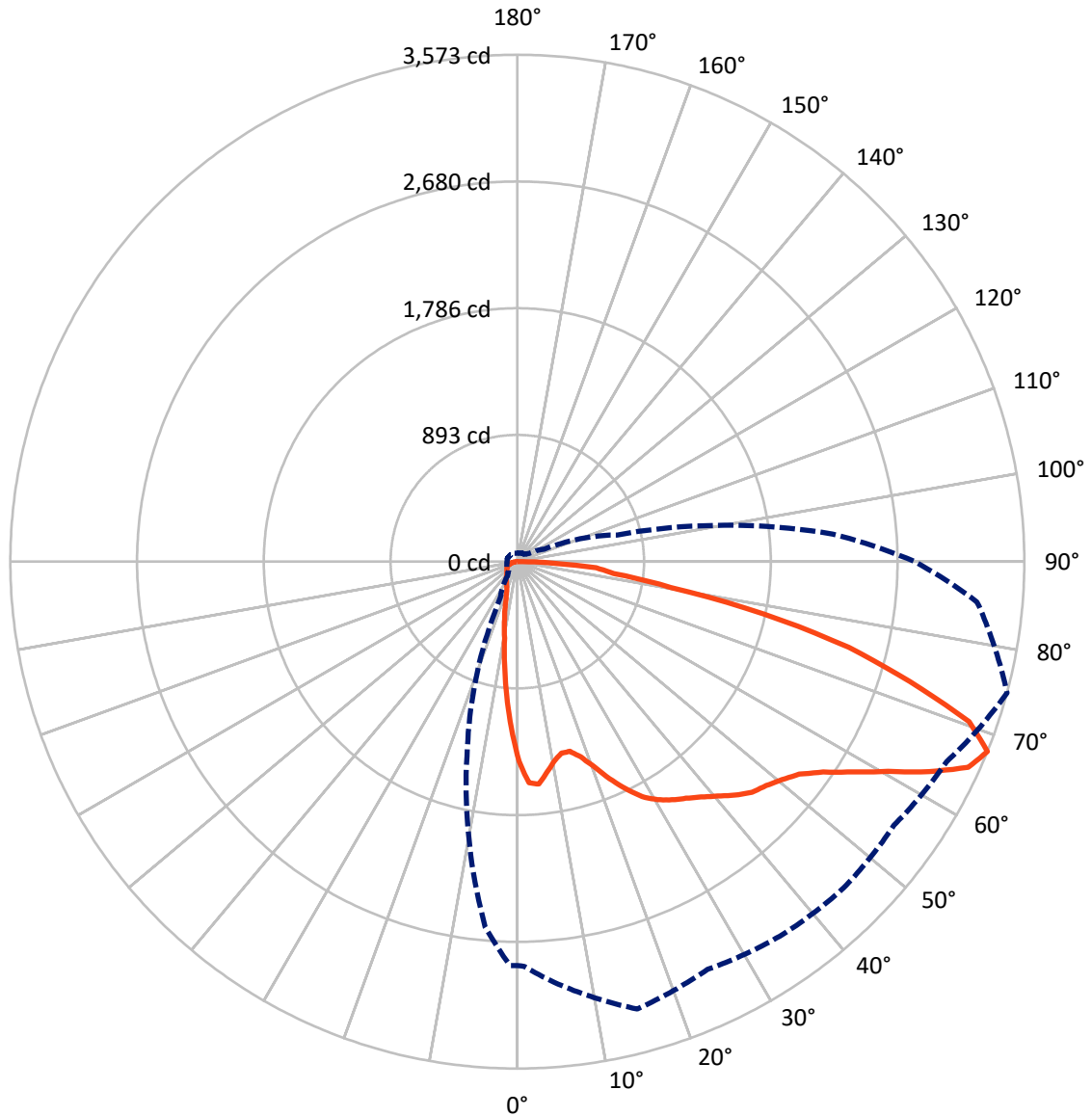
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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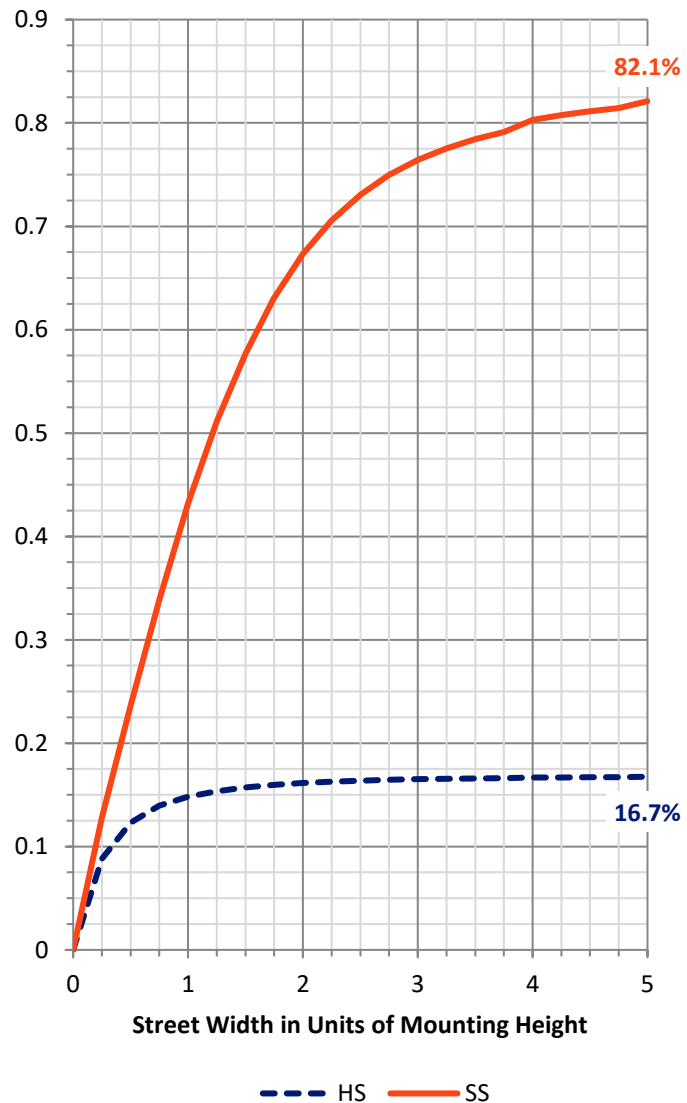
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	762.0	0.0	762.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3746.1	0.0	3746.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	4508.0	0.0	4508.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	2.4
10°-20°	222.8	4.9
20°-30°	320.6	7.1
30°-40°	461.7	10.2
40°-50°	648.6	14.4
50°-60°	904.6	20.1
60°-70°	1075.5	23.9
70°-80°	633.4	14.1
80°-90°	133.9	3.0
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°	4508.0	100.0
0°-180°	4508.0	100.0



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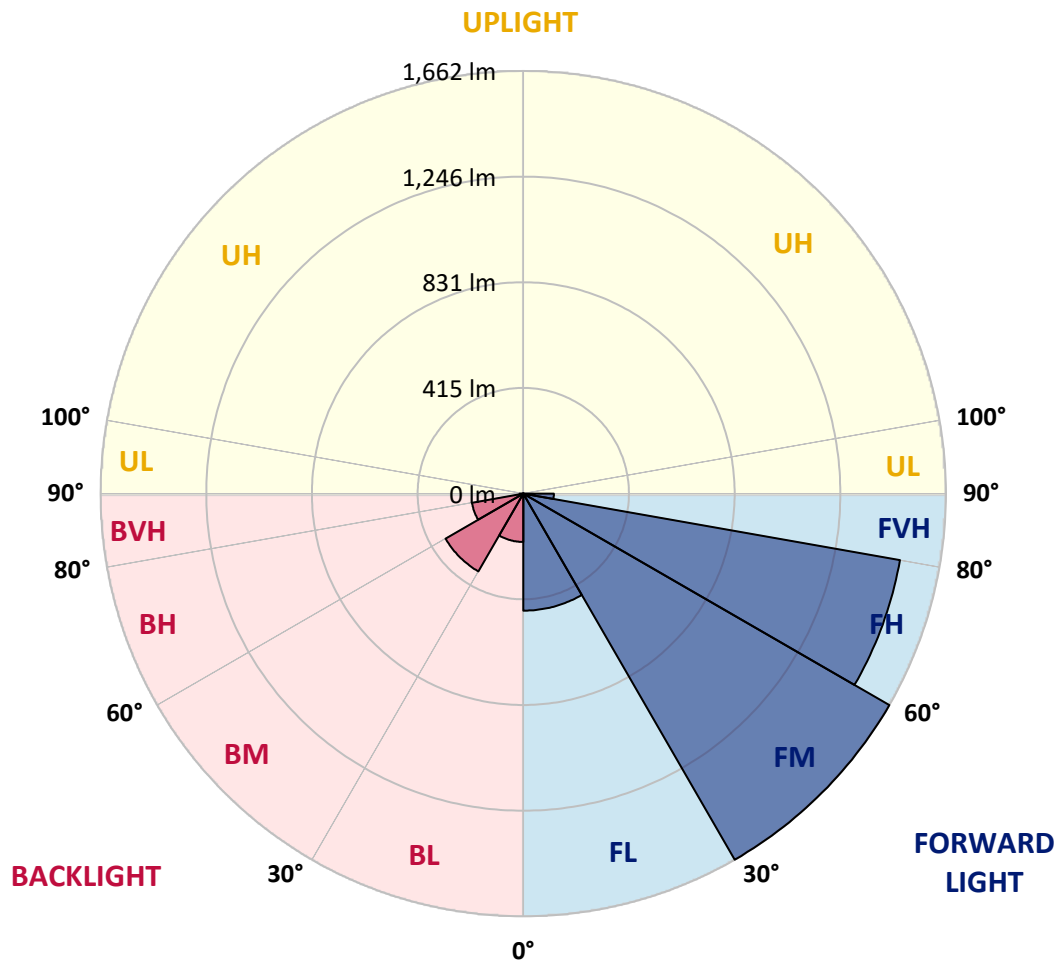
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.1	10.2			
FM	(30°-60°)	1661.9	36.9			
FH	(60°-80°)	1503.9	33.4			G1/1800
FVH	(80°-90°)	120.1	2.7			G2/225
BL	(0°-30°)	190.1	4.2	B1/500		
BM	(30°-60°)	353.0	7.8	B1/1000		
BH	(60°-80°)	205.0	4.5	B1/500		G1/500
BVH	(80°-90°)	13.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4
2.5°	1518.5	1520.6	1533.6	1571.4	1597.5	1607.0	1613.7	1601.2	1589.1	1559.6	1515.1
5°	1513.9	1525.8	1559.6	1644.6	1711.7	1740.6	1749.2	1711.9	1650.4	1574.6	1483.6
7.5°	1425.5	1441.4	1493.4	1635.9	1754.1	1821.8	1812.8	1745.5	1634.5	1499.5	1372.3
10°	1320.5	1338.2	1400.9	1573.2	1725.5	1818.6	1818.6	1736.5	1589.1	1428.6	1282.1
12.5°	1237.3	1255.8	1327.5	1508.7	1666.0	1754.1	1768.9	1698.4	1556.4	1383.8	1222.8
15°	1209.8	1227.7	1304.9	1469.7	1603.0	1656.7	1661.6	1638.5	1540.5	1387.0	1220.2
17.5°	1243.9	1267.0	1345.1	1481.3	1545.1	1548.3	1552.1	1570.3	1542.3	1445.1	1272.8
20°	1342.5	1367.4	1448.9	1518.5	1494.6	1461.6	1463.6	1510.5	1562.8	1541.1	1398.6
22.5°	1484.7	1506.4	1589.9	1584.2	1473.2	1405.2	1391.1	1456.4	1593.1	1660.8	1532.4
25°	1638.2	1663.7	1759.6	1681.6	1479.2	1371.7	1362.7	1424.6	1624.6	1772.6	1687.1
27.5°	1814.0	1838.8	1914.6	1779.9	1511.0	1369.1	1358.4	1421.7	1653.0	1876.1	1834.8
30°	1944.7	1967.5	2018.9	1862.6	1550.1	1386.4	1373.1	1444.5	1677.3	1947.0	1978.8
32.5°	2047.3	2071.0	2099.0	1914.0	1601.5	1417.9	1393.4	1486.2	1709.1	2001.0	2085.4
35°	2154.2	2182.3	2180.3	1959.7	1649.5	1454.4	1430.4	1546.3	1759.1	2048.1	2220.7
37.5°	2289.8	2301.1	2286.6	2000.7	1707.0	1520.0	1506.7	1635.6	1830.2	2105.1	2378.9
40°	2427.4	2450.0	2375.7	2050.5	1777.0	1643.4	1642.0	1767.7	1914.6	2171.9	2532.1
42.5°	2545.4	2564.4	2458.9	2093.8	1861.7	1794.0	1805.0	1944.9	2025.3	2249.3	2655.2
45°	2634.1	2651.2	2535.8	2135.7	1973.3	1968.1	2032.8	2134.9	2164.9	2319.0	2727.5
47.5°	2709.6	2726.0	2589.3	2199.3	2111.2	2175.9	2288.7	2332.9	2284.3	2358.9	2808.4
50°	2773.2	2778.1	2626.0	2275.1	2282.3	2430.6	2539.9	2568.5	2402.3	2416.1	2878.7
52.5°	2839.4	2833.0	2689.3	2370.5	2467.3	2672.3	2751.8	2781.5	2515.3	2486.7	2981.0
55°	2987.7	2993.7	2831.3	2490.7	2654.3	2909.6	3014.3	2985.6	2640.5	2616.5	3111.1
57.5°	3166.9	3161.7	3031.0	2678.9	2844.9	3130.5	3208.5	3162.6	2807.6	2794.8	3242.9
60°	3236.6	3243.5	3198.1	2881.3	3032.8	3323.9	3403.6	3332.2	3007.9	3002.1	3342.4
62.5°	3166.6	3205.6	3236.3	3061.4	3192.9	3466.1	3545.3	3463.8	3216.9	3258.8	3412.0
65°	3027.3	3035.6	3140.0	3214.0	3270.1	3489.5	3530.8	3487.5	3391.5	3492.7	3408.9
67.5°	2846.3	2853.5	2975.8	3264.0	3170.6	3223.5	3252.5	3239.7	3337.4	3572.8	3251.9
70°	2674.0	2668.2	2797.4	3136.5	2760.2	2679.8	2703.8	2663.9	2879.8	3377.1	2944.0
72.5°	2338.7	2359.5	2498.2	2782.1	2185.5	2054.8	2107.1	2003.9	2214.9	2892.3	2389.5
75°	1831.9	1836.8	2068.4	2334.9	1648.6	1442.5	1513.3	1470.3	1696.6	2412.7	1650.1
77.5°	1268.5	1257.5	1506.4	1783.3	1175.7	1056.0	1057.2	1036.6	1184.7	1776.4	1121.1
80°	805.7	788.9	943.0	1101.7	808.0	864.4	836.0	835.2	771.3	1095.9	677.9
82.5°	435.4	453.9	595.8	690.6	579.6	668.1	612.3	594.4	529.3	686.0	433.6
85°	198.3	215.7	317.7	469.8	440.3	445.2	297.5	350.9	438.0	557.1	231.6
87.5°	19.4	24.9	65.6	221.7	150.3	118.5	44.2	85.3	110.1	198.0	18.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4
2.5°	1496.9	1481.8	1430.7	1388.5	1343.7	1309.5	1265.0	1235.2	1214.7	1183.8	1180.0
5°	1428.1	1391.4	1302.3	1211.5	1133.2	1074.2	1014.4	959.5	927.1	917.0	904.0
7.5°	1312.1	1250.3	1135.8	1031.7	941.8	853.9	786.3	738.3	706.2	687.4	664.9
10°	1216.7	1145.1	1005.7	878.2	804.2	749.6	690.0	638.6	599.0	565.2	546.7
12.5°	1152.6	1071.6	914.9	811.5	754.2	696.1	626.4	568.6	510.2	471.8	455.3
15°	1133.2	1047.6	886.9	778.2	696.1	620.1	542.0	466.6	408.8	372.3	360.2
17.5°	1180.6	1077.1	886.6	734.0	627.9	537.1	437.1	366.3	307.0	279.8	271.2
20°	1269.1	1133.8	889.2	690.3	553.9	426.1	318.0	259.9	231.6	220.0	215.7
22.5°	1392.5	1220.2	897.0	647.3	472.9	327.2	238.2	208.7	198.6	196.6	195.7
25°	1544.6	1327.2	923.3	608.5	404.7	249.8	199.2	185.9	180.1	178.1	177.8
27.5°	1684.5	1465.4	955.1	575.3	338.8	215.4	180.1	168.8	163.0	162.8	163.3
30°	1810.8	1581.0	981.7	538.0	288.8	191.4	167.7	156.4	150.9	150.6	152.3
32.5°	1920.1	1676.1	1001.4	501.3	261.0	176.6	156.4	144.3	139.6	138.8	139.6
35°	2036.9	1770.9	992.4	472.6	245.1	164.5	148.0	136.2	130.7	128.1	128.1
37.5°	2170.1	1868.6	977.1	448.9	237.9	154.4	140.8	129.2	123.7	121.1	120.8
40°	2315.5	1966.3	956.0	427.8	230.7	148.3	135.9	123.7	117.1	114.5	113.9
42.5°	2443.9	2049.9	938.6	414.0	218.8	149.5	131.5	119.7	111.3	107.8	107.5
45°	2555.5	2134.0	935.5	405.9	209.0	147.7	130.4	116.5	106.7	102.9	102.3
47.5°	2642.8	2221.6	953.7	401.2	198.3	138.5	137.9	114.5	102.6	98.6	98.0
50°	2749.2	2345.9	995.3	391.7	188.5	129.8	145.7	114.2	99.4	94.2	92.8
52.5°	2890.8	2507.8	1051.7	374.6	174.3	121.7	139.0	114.2	95.7	90.5	88.7
55°	3105.0	2714.2	1106.9	350.7	154.4	111.0	125.5	110.7	90.2	85.6	84.4
57.5°	3247.0	2865.1	1142.2	317.4	129.5	103.2	108.1	105.2	84.7	79.8	79.8
60°	3254.2	2905.6	1125.4	275.5	113.9	96.0	94.0	106.1	79.8	74.6	74.0
62.5°	3170.9	2806.4	1038.1	237.9	105.5	88.2	85.0	93.1	74.9	69.7	68.8
65°	3040.9	2553.5	886.6	220.0	100.9	81.2	76.6	76.3	69.7	64.8	63.6
67.5°	2801.8	2231.4	728.5	209.6	98.6	73.4	69.1	67.6	63.6	59.6	59.0
70°	2449.4	1868.9	584.2	205.2	97.4	65.3	61.9	60.1	56.7	53.5	53.2
72.5°	1905.6	1515.9	482.2	202.4	96.8	57.8	54.1	51.7	49.7	46.8	46.8
75°	1368.8	1115.3	368.0	182.4	89.6	49.7	45.7	44.2	41.3	39.0	39.6
77.5°	862.9	751.0	242.3	134.1	69.4	39.9	36.4	35.6	33.2	30.1	32.1
80°	582.8	528.2	141.4	84.4	43.7	29.2	28.0	27.8	25.2	21.7	22.0
82.5°	396.6	389.1	73.4	48.0	25.2	17.1	16.5	17.1	14.2	11.6	11.6
85°	154.9	211.6	34.7	18.8	8.1	2.6	3.8	4.0	2.3	1.2	1.4
87.5°	2.9	21.7	0.9	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°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4
2.5°	1174.2	1171.6	1176.0	1157.5	1161.2	1168.2	1171.6	1173.7	1202.3	1195.6	1213.9
5°	916.1	913.5	930.3	932.6	941.2	939.5	947.9	949.9	960.3	964.1	989.5
7.5°	666.3	677.6	696.7	706.5	721.3	725.9	721.5	732.2	710.6	726.2	730.8
10°	535.4	521.8	513.7	536.2	539.1	560.5	551.9	544.9	557.6	558.2	570.4
12.5°	445.8	416.6	397.2	403.6	410.5	419.7	421.2	435.1	444.3	453.0	460.2
15°	349.5	339.4	321.7	313.1	322.9	326.7	335.6	347.2	357.0	359.6	369.4
17.5°	268.3	270.0	267.1	261.9	268.0	270.9	271.4	271.7	274.3	272.6	287.1
20°	215.9	222.0	229.2	230.4	232.4	233.9	231.3	221.4	221.7	227.8	232.4
22.5°	195.4	196.6	204.7	207.3	213.6	211.0	203.5	198.9	198.3	199.8	202.1
25°	179.2	181.0	186.7	190.8	195.7	191.1	185.6	181.3	180.7	182.1	184.4
27.5°	164.8	167.4	172.6	176.6	181.3	176.9	171.7	168.0	167.7	167.4	168.8
30°	153.2	156.1	159.9	164.5	167.7	163.9	159.0	157.0	156.7	156.1	156.7
32.5°	141.7	146.3	150.0	152.3	155.5	152.6	148.9	147.7	145.7	144.0	143.1
35°	128.6	133.6	139.3	142.2	145.4	142.5	139.9	135.0	131.5	131.2	131.8
37.5°	121.1	123.1	127.8	132.7	135.9	134.4	129.5	124.6	123.7	123.7	124.3
40°	114.5	115.3	117.4	123.7	129.5	125.2	119.1	117.7	117.7	117.4	117.7
42.5°	107.8	108.7	108.7	113.6	122.9	115.9	111.3	111.3	111.3	111.6	112.5
45°	101.8	102.0	101.8	105.2	113.9	108.1	104.9	105.8	106.4	107.0	107.5
47.5°	96.6	96.8	96.6	99.4	103.8	101.5	99.7	100.9	102.0	102.9	103.5
50°	91.9	91.6	92.2	94.0	96.0	96.6	95.4	97.1	97.7	98.9	100.3
52.5°	87.9	87.6	88.2	89.0	91.9	91.9	91.9	93.4	94.5	95.7	97.7
55°	83.3	83.5	84.4	85.6	89.3	88.7	89.0	90.2	91.3	93.1	94.2
57.5°	78.9	79.5	80.7	82.4	86.1	85.9	86.1	86.7	88.2	89.0	90.2
60°	74.0	75.2	76.6	77.8	81.5	81.2	82.7	83.8	84.7	84.7	85.3
62.5°	69.1	70.8	72.3	73.1	77.2	77.5	79.5	80.4	80.9	80.4	81.2
65°	64.2	66.8	67.4	68.5	72.6	72.8	75.2	77.2	76.6	76.0	77.5
67.5°	59.3	62.4	62.2	63.6	67.6	68.2	70.2	73.7	72.6	72.0	73.1
70°	53.8	56.1	56.4	57.2	62.7	61.9	65.0	68.2	67.4	67.6	67.6
72.5°	47.7	49.7	49.7	51.5	57.2	55.8	58.4	61.9	61.9	61.6	61.6
75°	40.5	41.6	42.8	45.4	51.5	49.7	51.5	54.6	55.2	54.6	54.6
77.5°	32.7	34.4	35.0	38.4	42.8	42.5	44.2	45.7	46.8	46.3	46.3
80°	23.1	24.9	27.2	30.9	33.5	34.4	35.3	36.4	37.0	37.0	37.6
82.5°	13.0	15.6	17.6	21.4	22.5	26.9	26.6	27.5	26.6	23.4	26.0
85°	2.9	5.5	7.8	9.8	11.3	15.6	16.5	18.5	15.3	14.2	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	4.6	6.4	5.5	4.6	4.6
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°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4
2.5°	1229.2	1254.3	1284.7	1337.0	1373.7	1413.3	1453.2	1495.7	1507.0	1518.5
5°	996.5	1045.9	1072.8	1143.0	1216.7	1310.4	1387.0	1470.8	1505.8	1513.9
7.5°	754.8	788.3	858.9	930.0	1021.3	1119.6	1237.0	1367.6	1408.4	1425.5
10°	598.4	644.1	705.9	782.3	862.3	968.1	1100.5	1253.2	1311.0	1320.5
12.5°	509.4	560.2	627.6	708.3	784.0	863.8	997.3	1154.9	1216.7	1237.3
15°	407.3	468.9	546.7	631.6	714.0	801.3	936.6	1114.4	1185.8	1209.8
17.5°	320.0	369.7	453.9	546.1	643.8	754.2	923.9	1133.8	1221.7	1243.9
20°	244.9	280.4	351.2	448.7	563.1	707.7	927.1	1206.9	1312.1	1342.5
22.5°	211.6	229.8	272.9	365.7	493.8	667.2	940.1	1307.2	1434.1	1484.7
25°	191.7	201.2	225.5	286.2	427.6	627.9	969.9	1442.2	1604.7	1638.2
27.5°	174.6	181.5	196.6	240.2	367.4	591.5	1004.6	1592.0	1764.0	1814.0
30°	158.4	167.7	181.8	213.3	329.0	558.2	1048.2	1713.4	1898.1	1944.7
32.5°	146.0	155.2	168.2	194.6	296.3	523.2	1074.2	1820.1	2007.7	2047.3
35°	135.9	143.7	157.3	179.5	271.4	496.6	1069.0	1904.8	2113.8	2154.2
37.5°	128.6	135.3	148.9	165.4	252.7	468.9	1066.4	2016.6	2243.0	2289.8
40°	122.0	128.9	141.4	156.1	233.9	436.2	1067.9	2127.6	2380.6	2427.4
42.5°	116.8	124.6	134.7	153.5	214.5	409.9	1067.9	2224.2	2500.3	2545.4
45°	112.5	120.8	130.7	153.2	199.2	390.0	1060.6	2307.2	2595.7	2634.1
47.5°	108.7	117.9	132.1	148.0	195.4	375.5	1054.3	2373.6	2673.4	2709.6
50°	106.1	117.1	140.5	141.9	196.6	371.2	1084.9	2457.5	2741.9	2773.2
52.5°	104.1	117.4	140.2	133.0	194.6	374.1	1148.8	2588.4	2837.0	2839.4
55°	100.0	117.1	133.0	122.9	186.2	379.0	1230.9	2778.7	2985.9	2987.7
57.5°	96.0	113.9	123.4	114.2	169.1	379.0	1329.8	2958.8	3165.4	3166.9
60°	91.9	118.5	108.4	106.7	146.9	372.0	1434.1	3038.0	3221.8	3236.6
62.5°	87.9	119.4	96.8	100.0	130.7	355.3	1511.9	2950.4	3145.5	3166.6
65°	83.3	96.3	89.3	93.1	122.3	327.2	1487.3	2789.9	3002.1	3027.3
67.5°	77.8	81.5	81.2	85.9	119.4	285.9	1357.8	2587.0	2847.7	2846.3
70°	71.1	73.1	74.0	78.9	113.9	253.8	1131.5	2323.6	2641.6	2674.0
72.5°	64.2	65.9	66.8	71.1	108.4	235.6	878.2	1960.8	2288.1	2338.7
75°	56.7	57.8	59.0	62.7	102.6	208.7	625.6	1496.9	1752.4	1831.9
77.5°	48.9	48.9	50.3	54.1	86.4	172.3	419.7	1049.9	1187.3	1268.5
80°	39.6	39.9	39.3	43.4	63.6	117.9	238.5	701.3	790.1	805.7
82.5°	30.4	29.5	29.8	31.8	47.4	80.4	127.2	435.6	444.0	435.4
85°	19.1	19.1	18.5	20.8	30.4	41.9	69.4	266.8	208.4	198.3
87.5°	7.8	6.4	7.2	8.4	14.5	17.1	27.2	54.9	21.1	19.4
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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