

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: P450669

Luminaire Tested: **GALN-SA1C-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450669
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-SA1C-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5128 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

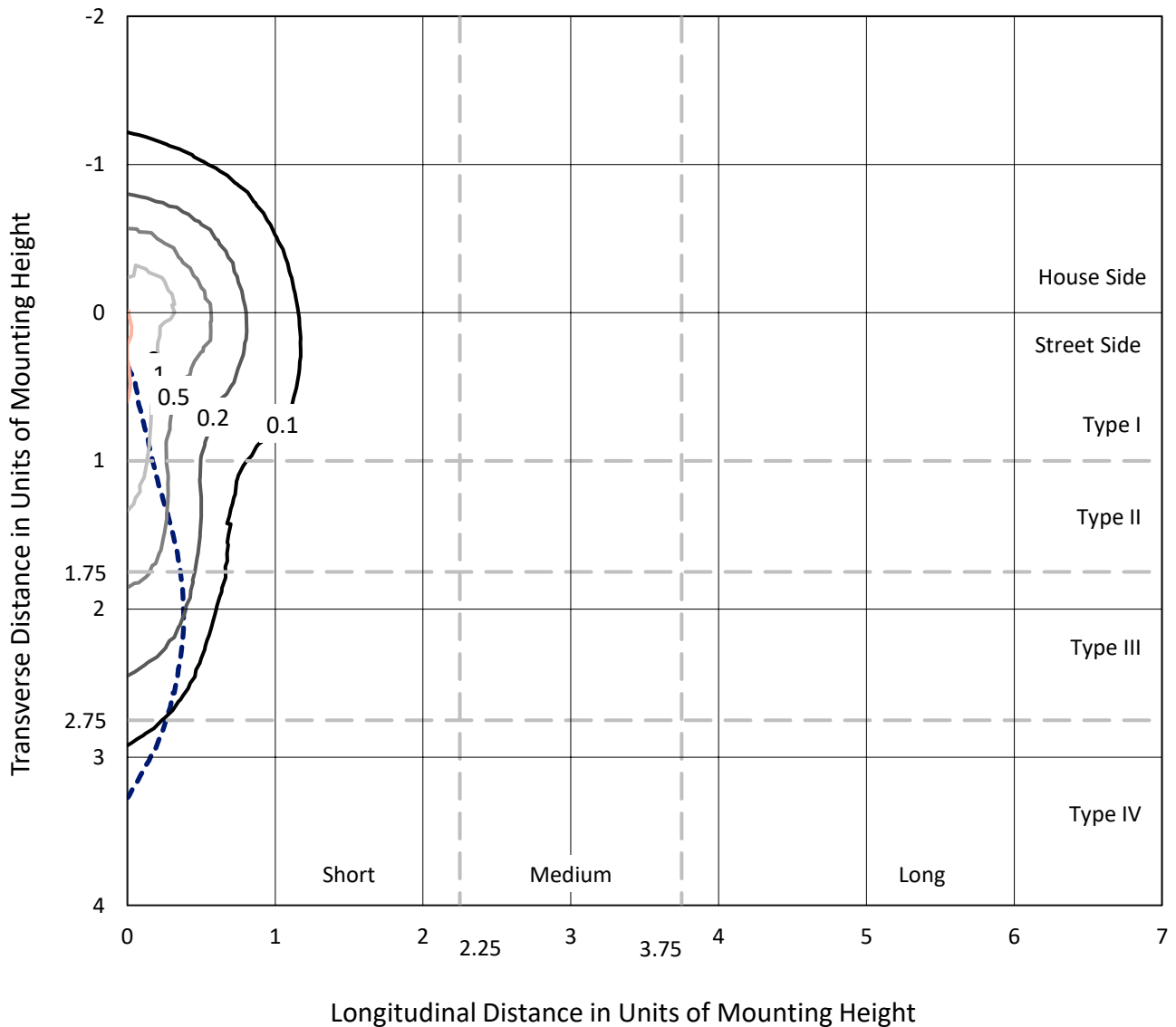
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

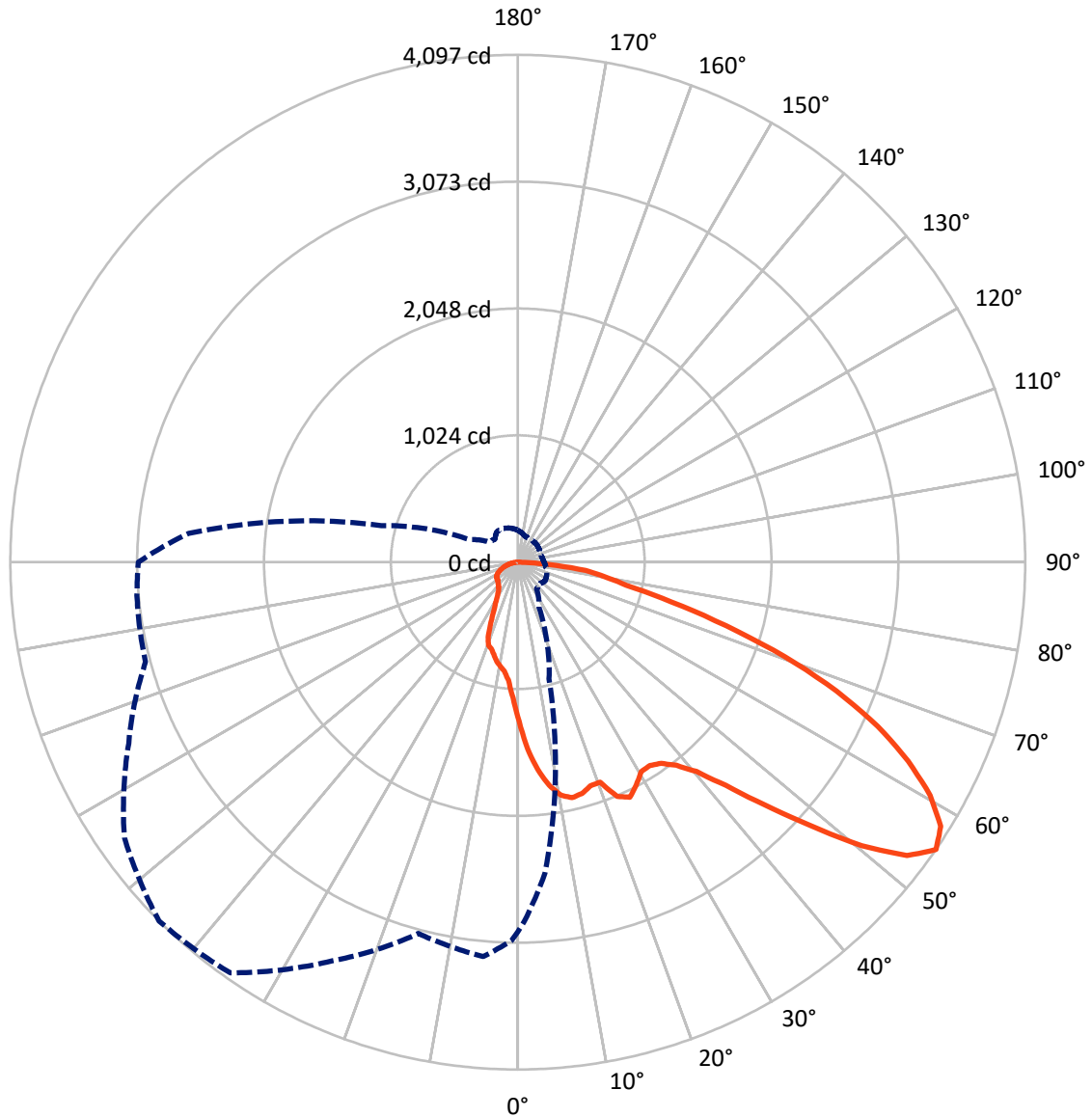
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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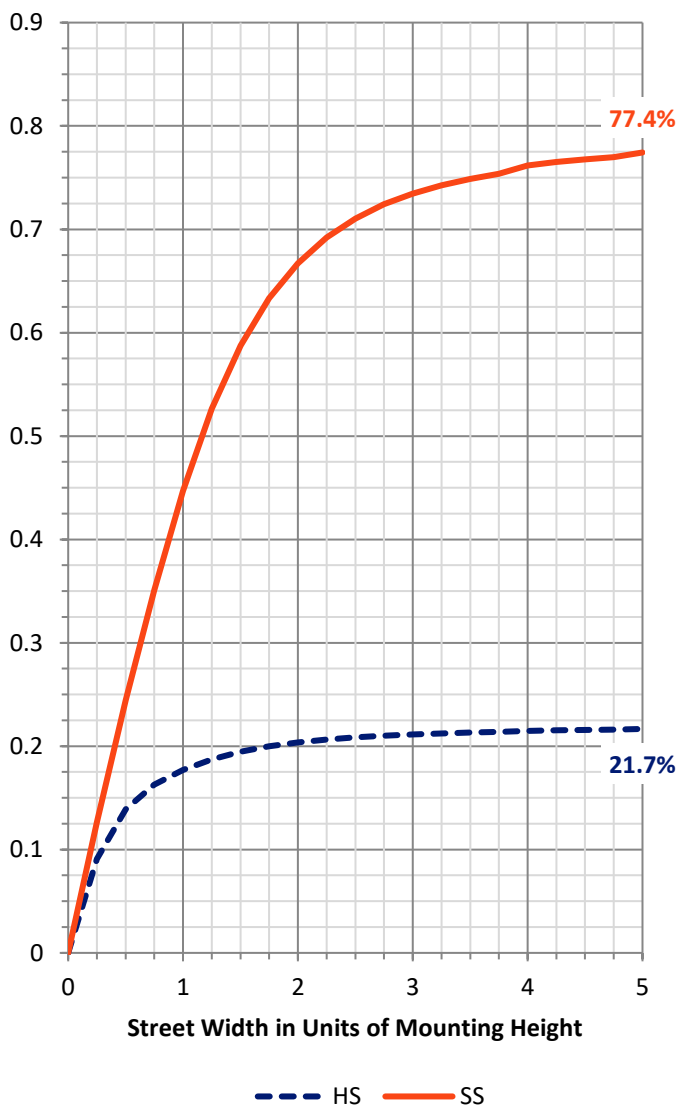
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.7	0.0	1121.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4006.3	0.0	4006.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	5128.0	0.0	5128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.1
10°-20°	289.4	5.6
20°-30°	499.9	9.7
30°-40°	581.0	11.3
40°-50°	810.6	15.8
50°-60°	1099.8	21.4
60°-70°	1046.4	20.4
70°-80°	565.3	11.0
80°-90°	126.7	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°	5128.0	100.0
0°-180°	5128.0	100.0

Coefficient of Utilization



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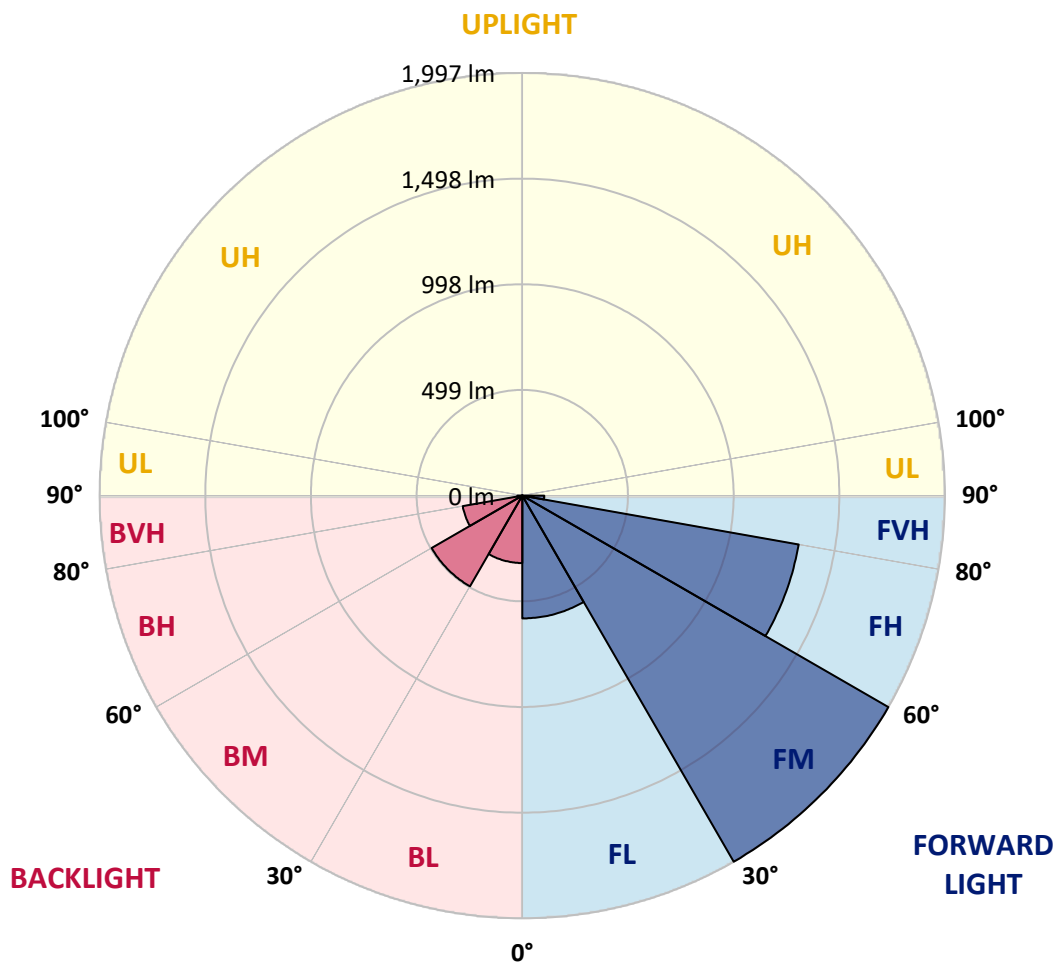
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	580.0	11.3			
FM	(30°-60°)	1996.7	38.9			
FH	(60°-80°)	1326.0	25.9			G1/1800
FVH	(80°-90°)	103.5	2.0			G2/225
BL	(0°-30°)	318.3	6.2	B1/500		
BM	(30°-60°)	494.6	9.6	B1/1000		
BH	(60°-80°)	285.6	5.6	B1/500		G1/500
BVH	(80°-90°)	23.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1429.7	1424.3	1409.1	1369.1	1328.9	1287.9	1256.5	1217.2	1176.3	1154.3	1126.2
5°	1449.3	1443.2	1407.4	1317.4	1235.8	1150.3	1081.9	1022.0	997.7	961.8	933.1
7.5°	1403.3	1400.6	1346.8	1217.6	1105.9	994.0	916.5	868.4	824.8	808.6	811.9
10°	1361.4	1350.5	1283.2	1114.4	984.1	893.1	837.7	790.6	759.8	751.7	753.4
12.5°	1326.5	1312.0	1232.5	1045.0	931.0	858.3	787.6	738.5	710.4	718.2	744.6
15°	1319.4	1299.8	1211.1	1021.4	901.9	808.2	730.7	674.2	653.3	670.2	712.5
17.5°	1365.4	1340.7	1247.7	1029.1	874.2	757.1	662.1	597.5	579.9	606.9	662.1
20°	1513.3	1476.7	1361.7	1074.1	871.5	731.8	622.2	557.2	564.6	616.1	673.6
22.5°	1786.6	1731.8	1561.3	1139.8	885.7	725.3	614.0	580.2	621.1	664.8	702.7
25°	1840.7	1797.8	1597.2	1154.6	882.6	720.9	637.0	654.0	699.6	721.3	708.1
27.5°	1871.2	1822.1	1594.8	1080.9	789.3	654.0	609.0	637.0	648.5	627.6	591.7
30°	1942.2	1891.1	1635.0	1003.4	649.9	485.1	425.3	413.8	421.5	425.6	412.7
32.5°	2040.0	1989.6	1710.8	952.7	561.9	401.2	342.4	326.1	322.4	318.0	312.9
35°	2166.5	2089.1	1785.3	920.2	525.7	371.1	317.0	304.5	299.4	293.3	287.9
37.5°	2295.1	2213.9	1879.3	886.0	501.7	350.1	300.1	294.3	285.5	279.1	271.3
40°	2431.8	2340.8	1964.9	856.3	478.4	336.6	287.9	287.2	275.7	268.3	259.1
42.5°	2550.2	2456.5	2041.4	838.0	460.4	322.4	280.5	282.5	270.6	259.5	247.6
45°	2644.2	2552.2	2112.1	838.0	445.9	308.2	279.1	277.8	265.9	252.0	238.5
47.5°	2726.8	2631.7	2181.1	859.3	436.8	296.4	271.7	274.0	261.9	244.3	231.1
50°	2790.7	2706.8	2274.1	892.5	427.6	286.9	262.2	275.0	258.5	240.2	225.0
52.5°	2872.2	2797.1	2386.1	937.8	419.8	276.4	253.7	275.0	258.1	240.5	224.0
55°	2985.2	2906.1	2521.1	975.3	407.3	266.6	246.3	267.3	257.1	238.8	221.3
57.5°	3064.4	3005.2	2616.5	1000.4	389.4	254.1	239.5	259.8	252.7	232.4	213.1
58°	3068.1	3010.3	2630.4	1006.1	385.0	251.7	237.8	256.4	250.7	229.7	210.4
60°	3025.5	2975.8	2633.1	998.0	360.0	239.9	229.0	242.6	239.9	213.8	195.9
62.5°	2870.6	2817.4	2523.8	932.0	326.8	225.3	215.5	224.0	217.9	191.5	174.9
65°	2650.3	2552.5	2299.1	828.5	303.1	209.8	197.2	197.9	191.5	172.5	158.0
67.5°	2357.0	2247.7	1946.6	698.3	285.2	192.5	175.6	173.9	166.1	153.9	142.1
70°	1996.0	1921.3	1581.9	568.0	265.2	173.6	151.2	150.2	145.5	136.3	125.9
72.5°	1617.8	1522.7	1277.5	454.7	240.9	155.3	128.6	130.6	124.5	118.1	108.6
75°	1193.9	1131.6	987.5	364.7	208.1	135.3	107.2	107.9	105.2	98.4	91.0
77.5°	786.2	767.6	706.4	239.5	160.0	107.6	87.6	88.3	86.3	80.2	72.4
80°	529.1	516.6	478.7	154.3	106.9	77.8	67.7	68.3	68.0	61.6	51.1
82.5°	326.1	320.7	308.5	104.2	74.1	55.8	44.7	46.7	50.4	43.3	34.8
85°	153.9	154.3	186.4	56.8	43.6	35.9	24.4	26.0	26.0	26.0	19.6
87.5°	20.0	21.0	25.7	24.0	15.9	13.5	8.8	7.4	6.4	8.5	6.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1116.4	1109.7	1095.1	1091.7	1089.7	1095.4	1080.2	1084.3	1077.5	1096.5	1093.4
5°	934.7	935.4	947.3	955.0	957.8	955.0	944.9	927.3	913.8	908.4	909.7
7.5°	805.5	817.4	837.7	860.3	881.0	887.0	881.3	847.8	811.3	788.3	780.8
10°	762.5	778.4	801.8	819.7	838.0	852.5	855.6	829.5	786.2	731.8	710.4
12.5°	764.9	786.6	808.9	814.6	813.0	818.7	816.0	811.6	783.2	713.8	678.3
15°	742.6	768.3	783.9	780.8	775.4	770.3	763.2	752.1	741.9	693.2	654.0
17.5°	691.2	717.6	730.4	731.4	731.4	730.1	712.8	708.8	707.4	683.7	659.7
20°	700.6	715.2	709.4	700.0	702.7	711.8	701.7	699.6	707.4	717.9	713.5
22.5°	706.1	701.0	657.7	615.7	606.2	634.7	640.4	663.1	694.5	732.4	757.1
25°	672.6	631.6	554.2	506.8	480.1	506.4	541.0	582.9	629.9	678.6	707.4
27.5°	562.3	531.1	475.7	433.0	409.7	413.8	443.2	481.4	525.1	557.9	578.8
30°	423.6	409.7	380.9	366.4	352.2	348.8	361.3	375.9	395.1	399.2	404.6
32.5°	311.9	309.9	311.6	306.8	304.1	303.8	300.1	303.5	305.5	307.9	303.1
35°	282.1	279.4	274.7	273.4	271.7	272.3	270.6	269.0	270.3	272.3	273.7
37.5°	266.9	262.9	256.1	253.7	253.7	254.7	252.0	251.4	253.7	260.2	263.5
40°	255.1	250.3	242.6	239.5	241.6	244.3	240.5	239.2	244.9	251.7	257.1
42.5°	243.9	240.2	232.8	229.4	231.1	236.1	230.7	229.7	237.2	244.6	251.0
45°	234.4	230.7	224.0	222.3	222.9	227.7	224.0	224.0	231.1	239.2	244.9
47.5°	227.0	222.3	217.9	216.5	217.2	219.9	219.2	219.2	226.0	234.4	240.2
50°	219.6	215.5	209.8	210.4	212.1	215.8	215.5	216.5	223.3	233.8	239.9
52.5°	216.2	210.1	203.7	204.3	209.4	213.8	212.5	213.5	221.3	240.9	249.7
55°	212.5	204.3	196.9	197.9	203.7	210.1	208.4	209.8	218.9	245.6	257.8
57.5°	205.4	195.9	187.8	188.4	196.9	203.7	201.0	202.6	213.5	240.5	253.4
58°	202.3	194.2	186.4	186.7	194.9	202.3	199.3	200.6	211.8	239.2	251.4
60°	189.5	184.7	178.0	178.3	186.1	192.5	190.8	192.2	203.0	229.4	238.5
62.5°	171.9	169.2	167.5	167.5	172.2	178.3	180.0	181.7	191.5	207.4	215.5
65°	152.9	152.9	153.3	153.3	156.3	164.1	165.1	169.5	178.6	186.4	192.5
67.5°	140.1	139.4	140.1	138.4	139.7	144.5	149.5	153.6	163.1	168.5	170.5
70°	123.5	123.1	123.5	121.1	122.8	126.9	130.2	137.0	146.8	150.9	151.9
72.5°	107.2	107.2	107.9	106.2	106.2	110.6	113.0	120.4	129.6	131.9	132.3
75°	90.3	91.3	91.3	89.0	89.7	92.4	95.4	101.5	110.0	111.6	111.6
77.5°	71.7	75.4	75.4	73.1	74.1	74.4	78.5	81.5	88.0	88.6	85.9
80°	52.1	55.8	58.9	56.8	58.5	56.5	58.9	60.9	67.3	64.3	59.9
82.5°	37.2	39.9	42.3	42.6	40.9	37.2	40.3	40.6	43.6	39.6	37.2
85°	20.6	23.0	26.0	24.7	22.0	19.6	20.6	21.3	21.0	20.0	18.6
87.5°	5.4	5.8	6.4	4.7	4.4	3.7	5.1	5.1	5.8	6.1	5.8
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°	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1095.8	1110.7	1142.8	1167.2	1196.9	1233.1	1275.8	1318.7	1365.1	1379.6	1399.9
5°	906.7	943.9	959.4	1003.8	1047.7	1113.7	1184.1	1265.6	1354.9	1397.9	1439.2
7.5°	774.7	794.7	810.9	843.4	896.2	976.4	1064.7	1166.5	1293.0	1355.6	1416.2
10°	703.7	705.7	725.7	765.9	811.9	882.6	966.2	1080.2	1221.3	1297.4	1368.5
12.5°	656.7	647.9	669.5	711.5	763.6	828.9	905.7	1014.3	1169.5	1247.7	1333.6
15°	615.4	601.5	617.8	660.7	712.1	788.9	871.5	986.5	1149.2	1240.2	1335.6
17.5°	616.4	578.2	583.9	620.1	671.2	749.4	849.5	985.5	1180.0	1284.9	1397.9
20°	692.5	631.3	605.2	612.0	661.4	746.6	859.6	1032.9	1281.2	1434.1	1554.9
22.5°	767.3	730.4	688.5	674.6	701.7	791.0	924.3	1144.8	1501.1	1731.5	1949.7
25°	741.2	772.7	762.2	742.6	748.7	822.8	968.2	1236.9	1671.9	1931.4	2136.4
27.5°	593.1	650.2	661.7	661.4	663.8	724.7	870.8	1174.9	1693.2	1969.6	2165.5
30°	416.8	421.9	428.0	439.8	450.6	505.1	681.4	1031.5	1683.8	1986.9	2183.1
32.5°	300.8	307.5	316.0	332.2	357.9	427.3	596.1	985.8	1733.8	2058.3	2234.5
35°	275.0	282.8	290.9	309.6	333.9	398.2	562.3	966.9	1816.0	2174.0	2326.9
37.5°	266.9	275.7	282.8	296.4	316.0	377.2	531.5	954.0	1900.3	2296.4	2450.7
40°	261.2	271.3	277.1	287.9	301.4	357.9	504.1	943.9	1981.8	2408.4	2550.2
42.5°	256.1	266.6	274.0	281.8	293.0	340.7	479.7	933.7	2052.5	2517.0	2649.3
45°	250.0	263.2	272.7	278.8	288.6	326.1	461.1	925.6	2133.0	2613.4	2749.4
47.5°	244.9	259.5	271.3	278.4	282.1	316.0	446.2	936.8	2229.8	2714.3	2842.5
50°	245.3	259.1	274.0	285.2	275.4	307.5	437.1	981.1	2355.6	2834.0	2915.9
52.5°	256.1	273.0	284.9	287.6	265.9	297.4	432.4	1058.6	2504.5	2939.9	2990.0
55°	268.3	285.9	298.7	297.0	260.8	284.5	431.3	1141.1	2667.6	3063.4	3086.4
57.5°	263.9	289.6	309.2	300.4	261.2	272.0	426.9	1207.8	2803.9	3155.7	3181.8
58°	262.5	288.2	310.6	299.7	260.2	268.3	425.9	1213.5	2822.9	3162.2	3195.3
60°	249.3	276.4	309.6	294.7	254.4	258.1	414.8	1232.1	2817.8	3129.0	3203.4
62.5°	225.3	247.6	286.2	270.0	236.8	244.6	389.7	1209.1	2680.4	2969.3	3084.7
65°	198.2	214.8	240.5	237.5	211.8	230.7	355.6	1118.1	2405.4	2710.2	2831.6
67.5°	178.0	191.5	207.7	203.3	190.5	212.1	318.7	964.2	2096.8	2398.9	2551.9
70°	157.3	167.8	175.9	172.9	168.8	193.9	285.9	782.5	1801.2	2103.3	2251.4
72.5°	136.3	146.1	152.9	148.5	146.1	174.6	259.1	607.3	1422.6	1735.2	1925.7
75°	114.0	123.8	128.6	123.5	122.1	153.9	219.6	453.7	1067.4	1337.7	1502.1
77.5°	88.3	98.8	104.9	103.2	103.9	126.5	177.3	310.6	763.2	911.7	1085.0
80°	61.9	73.4	77.5	75.8	80.5	96.4	125.2	197.2	526.4	591.7	713.8
82.5°	38.2	49.1	49.7	51.4	54.8	71.4	94.4	120.1	330.5	341.7	430.3
85°	19.3	23.3	25.0	27.7	30.8	43.6	53.8	74.4	212.8	161.0	240.5
87.5°	6.4	6.8	8.1	10.1	12.5	17.9	23.0	30.4	52.8	29.1	74.4
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°	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1440.9	1469.6	1490.6	1509.9	1491.3	1489.6	1471.3	1441.9	1429.7	1429.7
5°	1525.8	1593.1	1647.6	1682.4	1667.5	1631.7	1572.5	1497.0	1456.4	1449.3
7.5°	1549.1	1682.1	1783.2	1819.1	1794.1	1714.9	1601.6	1474.4	1416.2	1403.3
10°	1534.9	1707.8	1856.3	1913.1	1878.3	1758.5	1603.9	1448.0	1376.2	1361.4
12.5°	1520.0	1711.2	1869.8	1952.0	1929.4	1793.7	1621.2	1430.7	1347.8	1326.5
15°	1530.8	1712.5	1853.3	1938.2	1952.7	1836.0	1649.6	1443.2	1342.1	1319.4
17.5°	1599.2	1738.2	1829.6	1898.3	1949.3	1893.5	1730.5	1503.1	1393.5	1365.4
20°	1742.0	1799.8	1843.1	1896.2	1978.4	2010.9	1895.9	1667.5	1538.0	1513.3
22.5°	2155.4	2144.9	2056.2	2055.2	2174.3	2304.6	2296.8	2001.8	1806.9	1786.6
25°	2310.3	2261.6	2133.4	2102.3	2154.7	2355.6	2326.6	2070.1	1890.1	1840.7
27.5°	2249.8	2129.0	2044.7	2037.6	2020.4	2210.2	2280.2	2097.9	1919.2	1871.2
30°	2246.0	2068.4	1948.0	1962.2	1978.8	2160.1	2305.9	2184.8	1993.7	1942.2
32.5°	2255.2	2076.9	1955.1	1957.8	2007.2	2167.5	2334.3	2279.5	2091.4	2040.0
35°	2292.0	2124.9	2000.4	1994.0	2071.1	2216.3	2382.7	2428.4	2225.1	2166.5
37.5°	2351.6	2220.7	2083.3	2081.6	2193.6	2304.2	2442.9	2578.6	2358.0	2295.1
40°	2439.2	2332.6	2230.8	2221.7	2360.0	2447.3	2521.1	2738.6	2512.6	2431.8
42.5°	2545.1	2466.9	2425.3	2461.5	2594.5	2608.0	2642.9	2886.5	2644.2	2550.2
45°	2643.2	2639.5	2697.3	2793.4	2870.9	2789.7	2770.1	2985.6	2746.4	2644.2
47.5°	2759.9	2860.7	3035.3	3176.0	3257.2	3001.1	2878.7	3050.2	2820.8	2726.8
50°	2878.3	3125.6	3404.4	3600.6	3617.9	3230.9	2953.4	3111.1	2888.5	2790.7
52.5°	3002.8	3337.1	3708.2	3936.2	3902.7	3430.8	3025.8	3152.4	2958.2	2872.2
55°	3111.1	3466.7	3878.0	4096.9	4047.9	3552.6	3104.0	3197.0	3057.6	2985.2
57.5°	3171.6	3477.5	3835.7	4026.9	3973.8	3528.9	3139.8	3230.2	3121.2	3064.4
58°	3180.4	3462.9	3798.2	3986.3	3932.2	3508.9	3139.5	3228.8	3125.3	3068.1
60°	3172.7	3368.5	3658.5	3825.9	3769.1	3383.8	3126.7	3203.4	3073.9	3025.5
62.5°	3100.6	3204.8	3417.3	3539.1	3522.8	3188.2	3073.9	3107.7	2917.2	2870.6
65°	3005.9	2981.5	3108.4	3194.7	3206.8	3041.7	3021.4	2900.7	2716.3	2650.3
67.5°	2890.9	2728.5	2728.1	2777.2	2797.5	2816.4	2912.2	2675.7	2426.7	2357.0
70°	2695.6	2338.4	2230.8	2288.7	2271.7	2431.8	2717.0	2359.7	2077.6	1996.0
72.5°	2337.7	1855.6	1683.4	1757.9	1715.2	1907.0	2377.3	1941.9	1717.9	1617.8
75°	1894.9	1388.1	1210.5	1278.8	1252.4	1446.6	1978.1	1410.4	1232.1	1193.9
77.5°	1471.3	1005.8	902.6	893.1	912.8	1076.5	1451.0	952.3	812.3	786.2
80°	945.2	719.9	726.0	713.8	724.0	678.6	881.0	607.6	550.1	529.1
82.5°	622.2	501.7	598.1	552.1	524.4	456.4	577.8	397.9	337.6	326.1
85°	423.9	369.4	336.3	257.1	302.8	351.5	433.4	214.1	169.8	153.9
87.5°	191.5	128.6	94.4	58.2	92.0	106.2	210.4	25.0	19.3	20.0
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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