

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: P450668

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450668
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-SA1C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4273 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

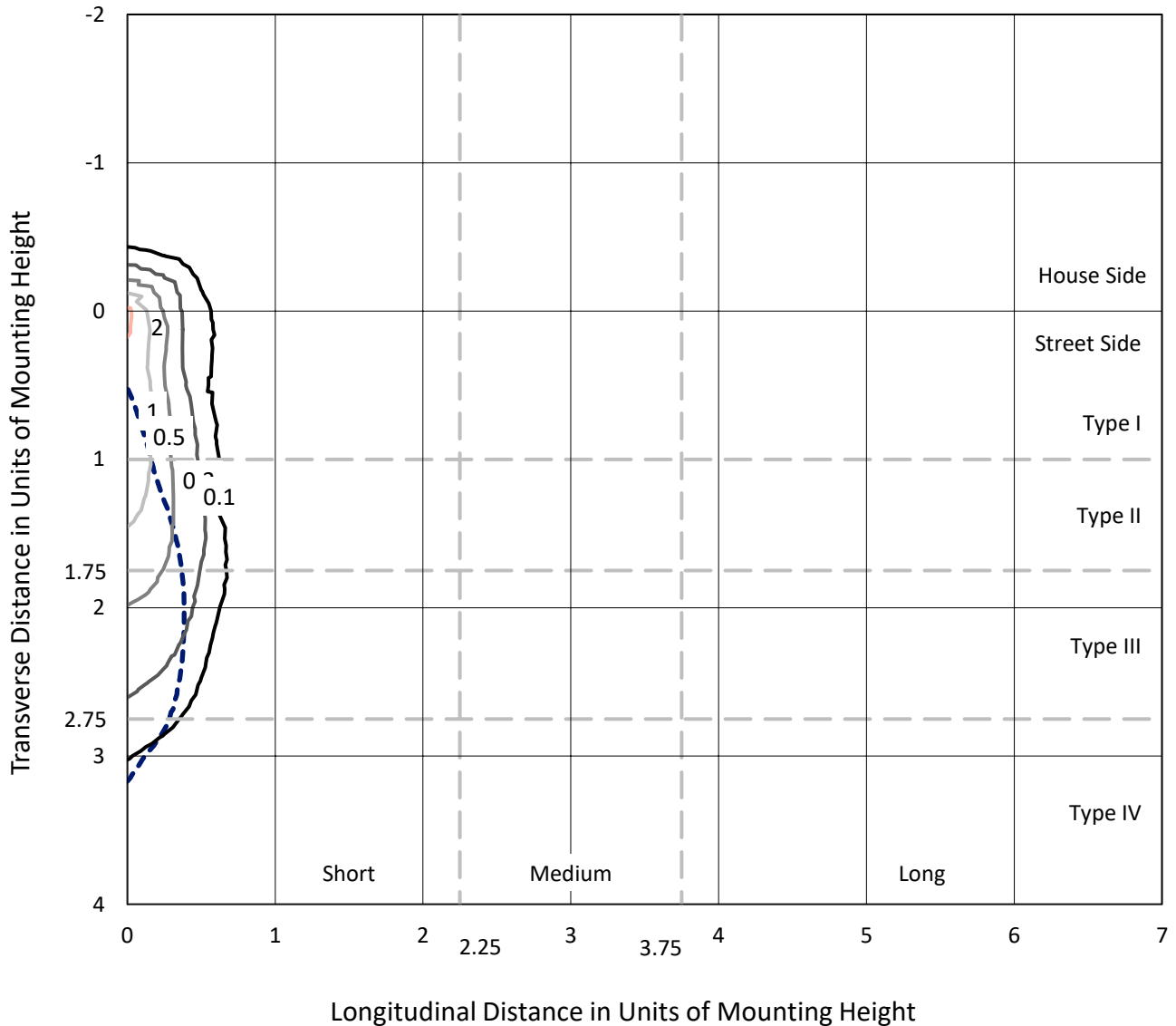
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

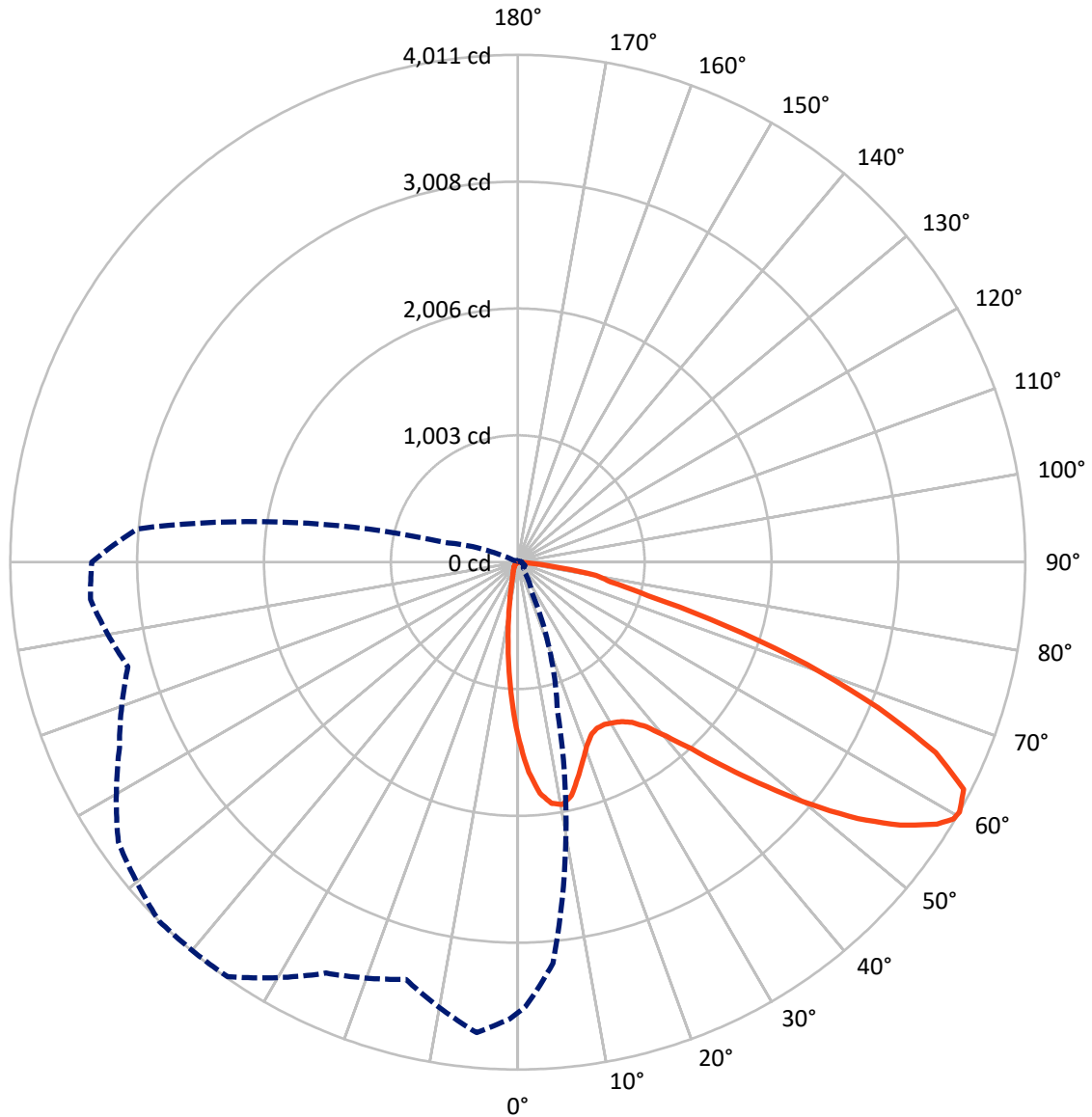
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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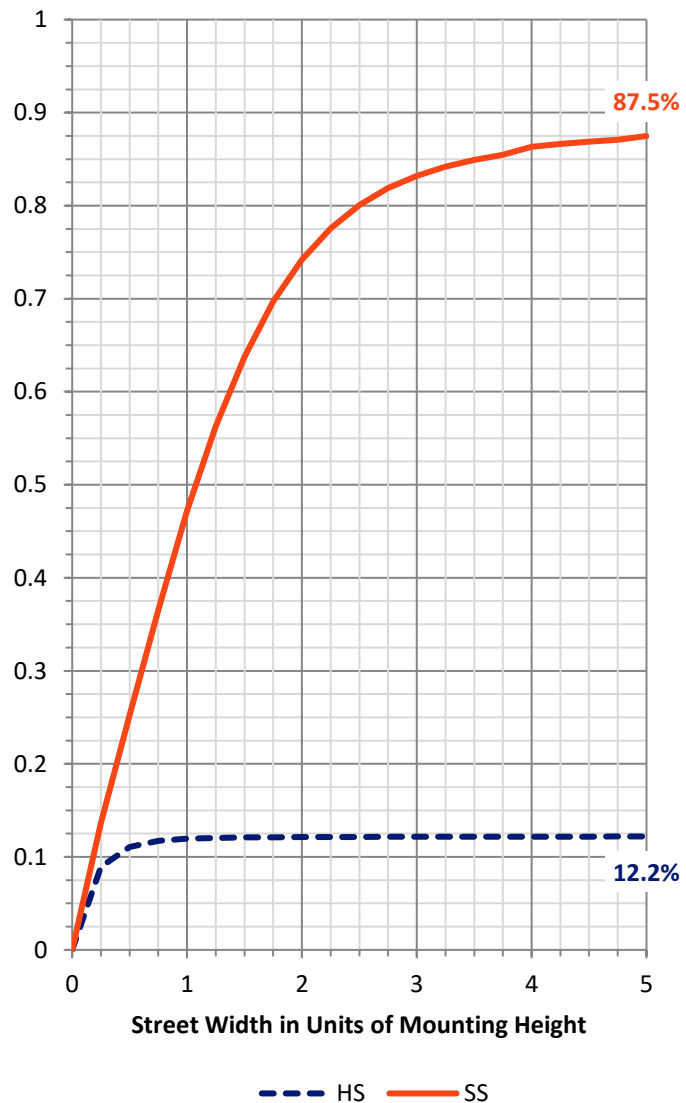
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	527.0	0.0	527.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3746.0	0.0	3746.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	4273.0	0.0	4273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	2.5
10°-20°	208.6	4.9
20°-30°	305.9	7.2
30°-40°	454.9	10.6
40°-50°	662.0	15.5
50°-60°	954.7	22.3
60°-70°	1050.1	24.6
70°-80°	470.3	11.0
80°-90°	61.5	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°	4273.0	100.0
0°-180°	4273.0	100.0



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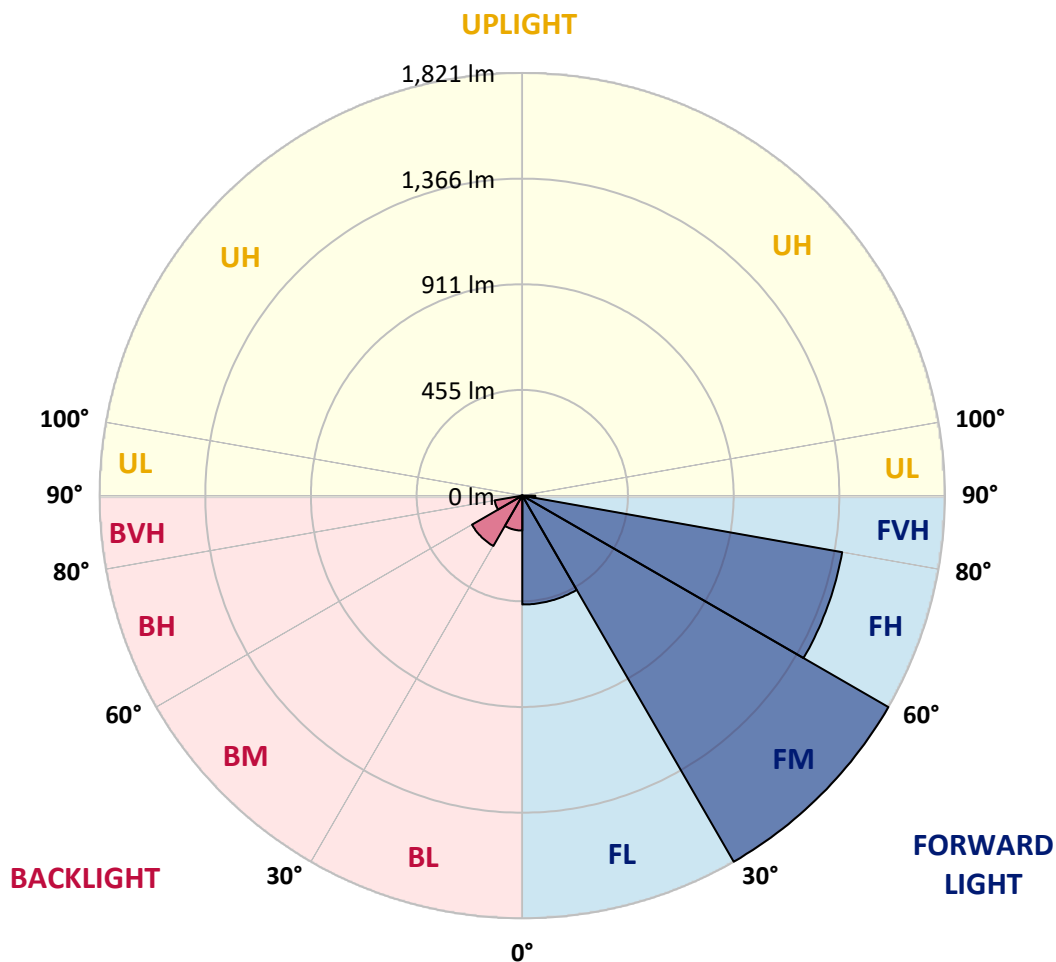
CATALOG NUMBER: GALN-SA1C-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.9	11.0			
FM	(30°-60°)	1821.3	42.6			
FH	(60°-80°)	1399.5	32.8			G1/1800
FVH	(80°-90°)	56.2	1.3			G1/100
BL	(0°-30°)	150.6	3.5	B1/500		
BM	(30°-60°)	250.3	5.9	B1/1000		
BH	(60°-80°)	120.9	2.8	B1/500		G1/500
BVH	(80°-90°)	5.2	0.1			G0/10
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°	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1552.6	1545.8	1530.2	1482.8	1441.5	1387.6	1333.0	1290.2	1263.8	1215.5	1193.4
5°	1504.2	1507.5	1462.3	1364.9	1256.4	1182.3	1101.4	1037.1	966.3	921.5	874.4
7.5°	1377.9	1371.4	1322.3	1186.5	1054.7	947.5	845.2	762.0	709.7	667.8	632.7
10°	1269.7	1264.8	1202.1	1027.4	885.8	805.5	736.4	663.6	607.4	546.0	497.0
12.5°	1201.8	1190.8	1118.7	936.1	820.8	746.1	670.7	595.1	517.4	455.4	395.9
15°	1179.1	1163.2	1082.9	904.6	779.2	684.4	589.9	502.8	413.5	345.0	300.1
17.5°	1220.3	1194.0	1108.6	899.1	729.5	603.8	487.5	374.2	281.3	229.0	201.4
20°	1314.8	1284.6	1173.5	893.6	674.3	513.5	370.6	264.4	194.6	166.0	150.7
22.5°	1455.2	1413.6	1269.7	902.3	623.3	425.5	267.6	186.8	154.6	136.7	126.0
25°	1623.7	1589.0	1391.5	933.5	583.0	356.3	206.9	152.7	130.3	119.2	111.1
27.5°	1808.6	1753.0	1549.0	970.9	546.3	302.7	181.6	136.4	116.0	105.9	101.7
30°	1940.1	1896.9	1680.9	996.9	500.5	262.4	166.0	134.5	116.3	104.3	96.5
32.5°	2070.0	2014.8	1791.3	1008.9	467.1	234.5	143.6	117.3	102.0	95.8	88.0
35°	2209.1	2151.2	1901.5	1002.4	442.1	216.0	130.3	104.6	87.4	77.0	69.2
37.5°	2349.7	2288.6	2010.9	979.0	426.5	208.5	119.9	99.4	82.5	71.8	63.3
40°	2516.7	2435.1	2113.6	959.8	410.2	204.6	113.0	96.1	78.9	67.6	59.1
42.5°	2653.1	2575.4	2210.7	949.8	399.2	195.5	113.0	93.5	76.7	64.0	55.2
45°	2782.3	2701.8	2315.6	957.9	394.6	184.2	114.3	93.2	75.0	61.4	52.6
47.5°	2890.5	2820.7	2423.4	988.4	388.8	171.8	107.5	97.8	74.1	59.1	50.0
50°	3018.2	2950.6	2566.0	1050.1	378.4	159.5	99.1	105.2	73.7	57.2	47.7
52.5°	3198.1	3125.0	2762.9	1120.3	361.8	140.6	91.3	104.3	72.4	53.9	45.5
55°	3418.0	3358.9	2990.9	1204.4	339.1	119.5	78.9	92.6	68.5	48.4	41.6
57.5°	3559.0	3508.6	3161.7	1240.8	304.3	97.8	69.5	77.6	62.7	43.2	37.0
59°	3575.5	3530.1	3197.5	1228.8	281.6	89.3	65.0	66.6	61.1	40.3	34.4
60°	3561.6	3514.5	3183.2	1205.4	260.5	83.5	61.1	59.1	61.4	38.7	32.5
62.5°	3471.9	3391.4	3044.5	1086.8	227.7	76.7	54.2	48.4	54.2	34.8	28.9
65°	3298.8	3178.0	2770.0	919.9	214.7	72.8	46.1	40.6	41.3	30.5	25.0
67.5°	2996.4	2844.1	2404.6	747.4	209.2	73.1	39.0	36.4	31.8	26.0	22.1
70°	2518.3	2366.3	1929.4	614.9	206.6	73.1	33.1	31.2	26.6	21.8	19.2
72.5°	1784.5	1620.8	1301.5	483.0	186.1	72.8	28.3	28.3	21.8	18.2	15.6
75°	1008.2	1009.5	818.2	341.7	154.6	60.1	22.7	22.4	15.9	14.0	11.7
77.5°	587.6	577.2	551.5	146.8	71.8	27.3	15.9	13.6	11.0	10.1	8.4
80°	302.1	248.5	242.0	53.3	25.7	17.2	11.0	7.8	7.1	6.5	5.8
82.5°	89.3	89.6	79.9	21.4	14.3	11.4	5.5	4.2	3.9	3.6	3.6
85°	6.2	3.9	4.5	6.5	8.8	4.5	0.3	1.0	1.0	1.3	1.6
87.5°	0.6	0.3	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°	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1169.0	1183.3	1156.7	1157.3	1135.2	1142.4	1116.4	1124.8	1109.6	1121.3	1155.7
5°	879.6	882.8	861.4	854.6	857.8	871.1	876.3	852.6	862.7	842.9	841.6
7.5°	619.7	623.6	611.3	609.7	633.1	627.5	637.6	613.2	590.2	600.3	581.7
10°	481.4	465.1	439.8	432.7	428.1	431.0	431.0	408.9	405.7	396.9	410.2
12.5°	380.0	360.2	336.2	303.7	295.6	294.9	282.9	263.4	257.3	249.8	260.8
15°	276.1	268.0	247.8	229.6	211.1	207.6	188.1	172.2	151.0	148.1	147.1
17.5°	194.2	182.2	181.9	171.5	160.8	153.6	135.4	117.3	109.1	108.2	108.2
20°	145.5	141.3	134.5	133.2	129.9	121.8	105.6	95.8	91.9	92.2	93.5
22.5°	122.5	119.5	113.4	110.4	109.1	102.0	90.0	83.5	81.5	81.5	81.9
25°	109.5	106.9	100.0	95.5	93.9	88.7	79.3	74.4	72.8	72.8	72.8
27.5°	99.7	96.5	89.3	85.4	82.5	76.7	70.8	65.9	64.3	64.3	64.6
30°	92.9	89.3	82.8	77.6	73.1	67.9	63.0	58.8	56.8	56.5	56.8
32.5°	83.8	80.6	74.1	70.8	65.6	59.4	55.5	51.6	49.7	50.0	49.7
35°	65.3	64.3	59.8	60.7	57.8	52.6	49.0	44.8	42.6	42.2	42.9
37.5°	59.4	55.5	50.3	50.7	49.7	47.7	41.9	37.4	35.7	35.7	36.1
40°	54.9	51.0	45.1	42.2	42.6	42.6	36.4	31.5	29.9	29.6	30.2
42.5°	51.0	47.1	40.6	35.7	34.4	36.1	30.9	26.0	24.4	23.7	24.4
45°	48.4	44.2	36.7	31.2	27.3	29.2	25.3	21.4	19.5	19.5	19.2
47.5°	45.8	41.9	33.8	27.0	22.7	21.8	20.8	17.2	15.3	14.9	15.3
50°	43.5	39.6	30.5	23.4	19.2	16.9	16.9	13.6	12.3	11.7	12.0
52.5°	41.3	37.0	27.6	20.8	16.6	13.6	12.0	11.0	10.1	9.7	10.1
55°	38.0	33.8	24.7	17.9	14.3	11.4	9.4	9.1	8.4	7.8	8.4
57.5°	34.1	30.2	21.8	15.3	11.4	8.8	7.8	7.5	6.8	6.5	6.5
59°	31.8	28.3	20.1	13.3	10.1	7.8	7.1	6.8	6.2	5.5	5.8
60°	30.5	27.6	19.2	12.3	9.1	7.1	6.5	6.2	5.5	5.2	5.5
62.5°	27.0	24.7	16.9	10.1	7.1	5.2	4.5	4.9	4.5	4.2	4.5
65°	23.7	21.8	14.3	7.8	5.5	3.6	3.2	4.2	3.9	3.6	3.9
67.5°	21.1	18.8	12.0	5.8	3.9	1.9	2.3	3.6	3.6	3.2	3.6
70°	18.2	16.2	9.7	4.2	1.9	1.0	1.6	2.6	3.2	2.9	3.2
72.5°	14.9	12.7	7.5	2.9	1.0	0.0	1.0	2.3	3.2	2.9	3.2
75°	11.7	9.4	5.5	1.6	0.0	0.0	0.3	1.9	3.2	2.9	3.2
77.5°	8.4	6.8	3.2	0.3	0.0	0.0	0.3	1.9	3.2	2.9	3.2
80°	5.5	4.9	1.3	0.0	0.0	0.0	0.3	1.9	3.2	3.2	3.6
82.5°	3.6	2.6	0.0	0.0	0.0	0.0	0.6	2.6	3.6	3.9	3.9
85°	1.6	0.0	0.0	0.0	0.0	0.0	1.3	3.2	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.3	3.9	4.9	4.9	4.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1161.5	1182.0	1210.9	1255.4	1291.5	1348.3	1391.8	1451.3	1511.4	1529.5	1557.8
5°	854.9	881.2	946.8	1006.6	1044.3	1164.5	1240.5	1360.3	1467.8	1519.5	1575.7
7.5°	593.8	624.9	675.0	758.4	837.7	935.5	1058.2	1195.3	1352.8	1426.6	1505.8
10°	416.7	455.7	526.2	594.7	694.5	787.3	908.5	1059.9	1233.6	1320.7	1420.1
12.5°	263.1	297.9	391.1	468.1	592.5	700.3	812.0	949.1	1150.5	1239.8	1344.1
15°	150.4	179.6	223.1	321.9	459.9	602.5	741.9	901.0	1107.9	1218.0	1330.8
17.5°	112.1	119.9	139.3	195.2	320.9	487.5	677.2	886.4	1136.8	1266.1	1394.7
20°	94.2	99.4	108.5	130.6	204.6	375.5	614.2	889.0	1230.4	1392.8	1514.9
22.5°	84.5	87.7	95.2	109.5	139.7	273.5	540.5	904.3	1343.8	1548.4	1689.4
25°	74.1	78.3	84.8	97.1	116.3	189.7	467.7	938.4	1502.6	1745.9	1878.4
27.5°	65.9	69.8	76.3	87.7	102.0	144.9	383.0	967.6	1670.2	1944.7	2053.1
30°	57.8	61.7	68.2	77.3	90.3	117.3	291.7	984.8	1832.9	2093.7	2177.2
32.5°	51.0	54.2	60.4	68.5	79.3	99.4	230.0	967.0	1957.3	2229.2	2285.1
35°	44.2	48.1	53.3	60.7	70.2	84.8	191.3	905.3	2064.2	2368.5	2388.7
37.5°	37.0	41.6	47.1	53.9	61.4	78.0	153.6	837.0	2178.5	2542.3	2509.2
40°	31.2	35.4	40.6	48.1	54.9	71.5	118.2	764.3	2302.0	2705.4	2640.7
42.5°	25.3	29.9	36.1	42.9	54.2	62.4	91.6	688.9	2412.7	2847.3	2759.6
45°	20.1	24.0	30.5	39.3	53.9	53.6	70.8	614.5	2496.2	2948.7	2848.3
47.5°	15.9	19.2	25.7	38.3	49.7	45.5	56.8	568.4	2583.9	3039.9	2916.2
50°	12.7	15.9	22.1	40.0	43.5	39.0	47.7	575.9	2668.7	3086.4	2944.1
52.5°	10.7	14.0	19.2	31.5	33.5	34.1	41.9	610.3	2778.1	3136.1	2999.6
55°	9.4	12.3	16.2	22.1	26.0	30.5	38.3	635.3	2924.6	3242.6	3122.1
57.5°	7.5	10.7	14.6	18.8	21.4	26.6	35.4	637.3	3057.1	3379.4	3284.8
59°	6.8	9.7	13.6	17.9	19.2	24.0	33.5	620.7	3062.0	3399.8	3359.5
60°	6.2	9.4	13.0	16.6	18.2	22.7	31.8	601.6	3017.8	3367.3	3390.4
62.5°	5.2	8.1	11.4	13.3	15.6	18.8	27.6	532.0	2803.8	3220.2	3333.2
65°	4.5	7.1	9.7	11.0	13.0	16.2	24.4	425.8	2567.3	3020.8	3169.5
67.5°	4.2	6.5	8.4	9.4	11.4	14.9	21.8	300.8	2261.0	2767.7	2923.6
70°	3.9	6.2	7.5	8.8	10.1	12.7	18.5	175.4	1741.6	2324.0	2488.7
72.5°	3.9	5.8	6.5	7.5	8.8	11.4	17.2	94.8	1190.8	1772.8	1985.6
75°	3.9	5.5	5.8	6.5	7.8	10.4	15.3	49.7	769.8	1231.7	1520.1
77.5°	3.9	5.2	5.8	6.2	7.5	9.1	13.3	31.2	512.9	862.7	1027.4
80°	4.2	5.2	5.5	6.2	7.1	8.4	11.0	20.8	301.4	519.1	625.3
82.5°	4.5	5.2	5.8	6.5	7.5	8.1	9.7	13.0	139.0	343.3	388.5
85°	4.9	5.5	6.2	6.8	7.8	8.1	9.1	9.4	22.7	154.9	209.5
87.5°	5.2	5.8	6.5	7.1	8.4	8.4	8.4	8.4	7.8	16.6	42.2
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°	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1593.5	1630.2	1655.9	1662.4	1643.9	1635.4	1612.0	1575.7	1553.6	1552.6
5°	1679.3	1765.4	1825.1	1835.2	1799.5	1739.0	1667.3	1574.7	1520.5	1504.2
7.5°	1664.7	1815.4	1911.5	1925.5	1865.4	1750.1	1611.1	1462.0	1402.9	1377.9
10°	1604.6	1788.4	1925.8	1947.9	1867.7	1705.3	1528.6	1362.3	1288.9	1269.7
12.5°	1553.3	1739.0	1861.2	1891.7	1831.0	1668.9	1479.2	1298.3	1219.7	1201.8
15°	1530.8	1680.6	1755.3	1770.9	1760.8	1646.2	1474.0	1288.5	1198.6	1179.1
17.5°	1553.3	1630.9	1640.3	1656.2	1678.6	1643.9	1524.0	1341.5	1244.4	1220.3
20°	1612.0	1587.7	1548.7	1555.5	1606.9	1653.3	1613.0	1458.7	1340.5	1314.8
22.5°	1712.1	1577.0	1488.6	1482.8	1547.7	1684.8	1743.6	1617.6	1480.5	1455.2
25°	1834.9	1603.9	1466.5	1453.9	1524.7	1730.9	1885.5	1812.1	1662.4	1623.7
27.5°	1968.7	1659.8	1466.5	1454.2	1522.7	1771.9	2007.0	1984.3	1850.8	1808.6
30°	2042.1	1705.9	1487.6	1473.7	1546.8	1795.6	2072.0	2137.3	1992.4	1940.1
32.5°	2107.7	1769.9	1528.9	1502.6	1597.1	1830.6	2130.1	2267.2	2105.1	2070.0
35°	2168.1	1838.4	1585.7	1555.2	1663.4	1878.7	2194.4	2403.6	2262.0	2209.1
37.5°	2234.7	1918.0	1674.4	1648.4	1774.1	1972.3	2270.8	2582.9	2416.3	2349.7
40°	2307.1	2010.3	1820.3	1809.2	1950.2	2078.2	2367.2	2774.2	2592.3	2516.7
42.5°	2380.9	2116.5	1998.9	2017.1	2149.6	2226.6	2466.3	2921.4	2736.6	2653.1
45°	2447.8	2252.3	2231.1	2321.1	2382.2	2371.5	2539.7	3025.0	2862.3	2782.3
47.5°	2532.2	2450.1	2512.1	2650.8	2652.4	2529.0	2595.3	3109.8	2970.4	2890.5
50°	2626.8	2683.6	2874.9	3016.2	2978.2	2683.9	2660.2	3210.1	3082.2	3018.2
52.5°	2736.2	2945.1	3210.1	3367.0	3278.3	2852.8	2768.4	3318.6	3259.5	3198.1
55°	2863.6	3123.4	3544.4	3669.4	3580.1	3062.7	2932.7	3465.8	3459.9	3418.0
57.5°	3007.4	3311.8	3737.9	3907.2	3827.6	3308.9	3162.4	3604.5	3582.4	3559.0
59°	3121.1	3408.6	3823.4	3998.8	3950.7	3481.3	3316.7	3690.9	3610.6	3575.5
60°	3190.0	3474.2	3854.9	4011.1	4000.1	3584.0	3414.4	3733.1	3610.3	3561.6
62.5°	3394.3	3588.9	3842.9	3956.2	3999.4	3780.8	3701.2	3779.5	3543.4	3471.9
65°	3467.1	3550.9	3643.8	3629.8	3666.8	3770.8	3884.4	3728.5	3400.5	3298.8
67.5°	3325.4	3134.1	3166.9	3073.7	3055.5	3352.4	3810.1	3479.1	3120.8	2996.4
70°	2803.1	2401.0	2384.5	2427.3	2309.7	2714.1	3421.3	2998.7	2659.2	2518.3
72.5°	2206.5	1696.8	1557.2	1715.0	1711.4	2070.7	2842.1	2127.9	1796.5	1784.5
75°	1735.2	1181.3	1036.8	1062.5	1111.8	1499.0	2263.6	1351.2	1106.3	1008.2
77.5°	1164.8	837.0	780.9	749.3	802.6	962.4	1432.1	732.8	620.4	587.6
80°	671.4	608.1	690.6	626.9	655.5	606.4	712.3	336.2	279.0	302.1
82.5°	436.9	346.3	369.0	274.1	374.8	378.1	228.7	99.4	84.1	89.3
85°	273.2	162.4	91.3	65.0	129.3	237.8	71.5	6.2	7.1	6.2
87.5°	70.8	27.0	11.4	16.9	20.8	18.5	16.6	1.0	0.3	0.6
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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