

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: P454292

Luminaire Tested: **GALN-SA5B-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454292
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-SA5B-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18057 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

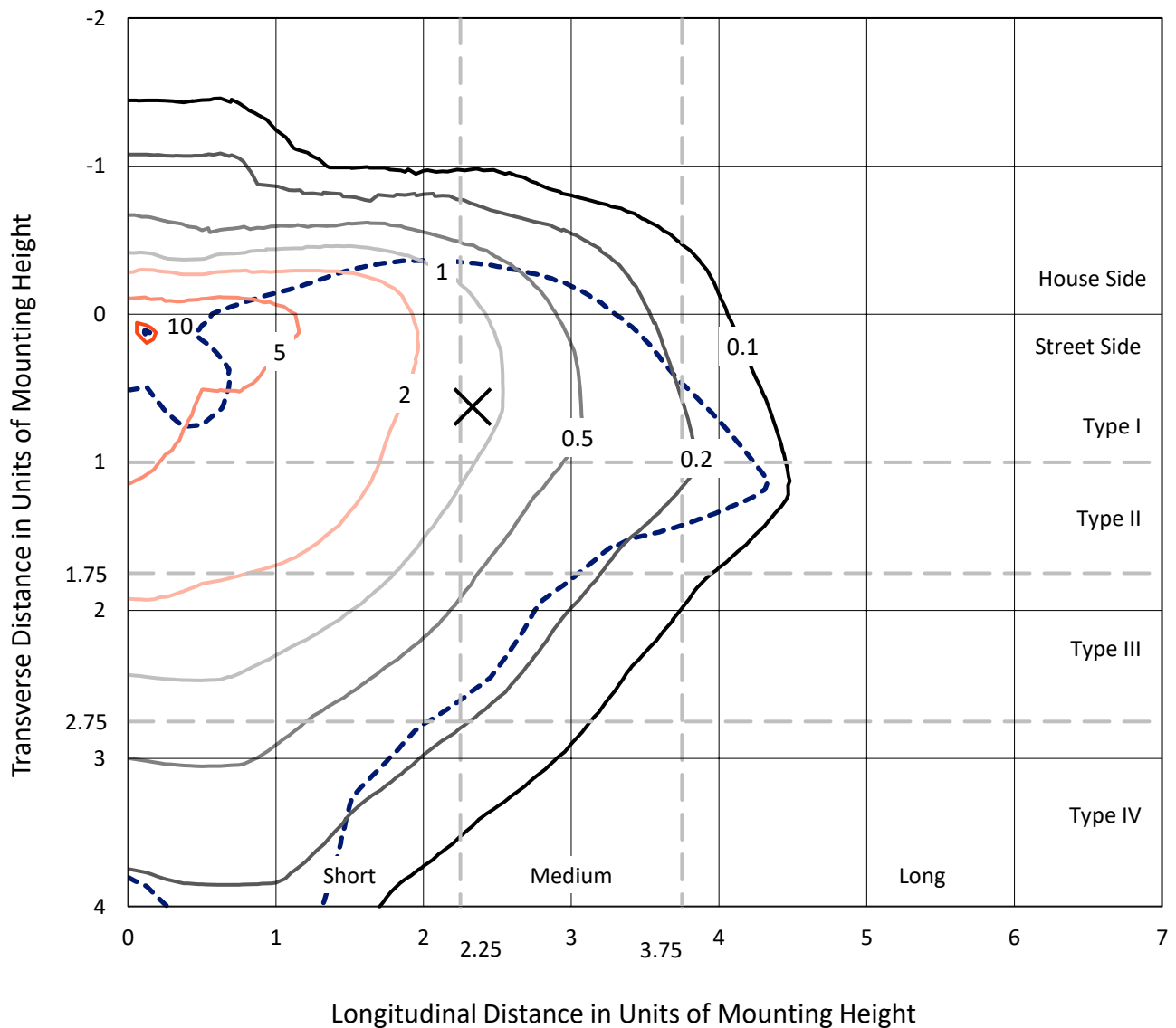
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

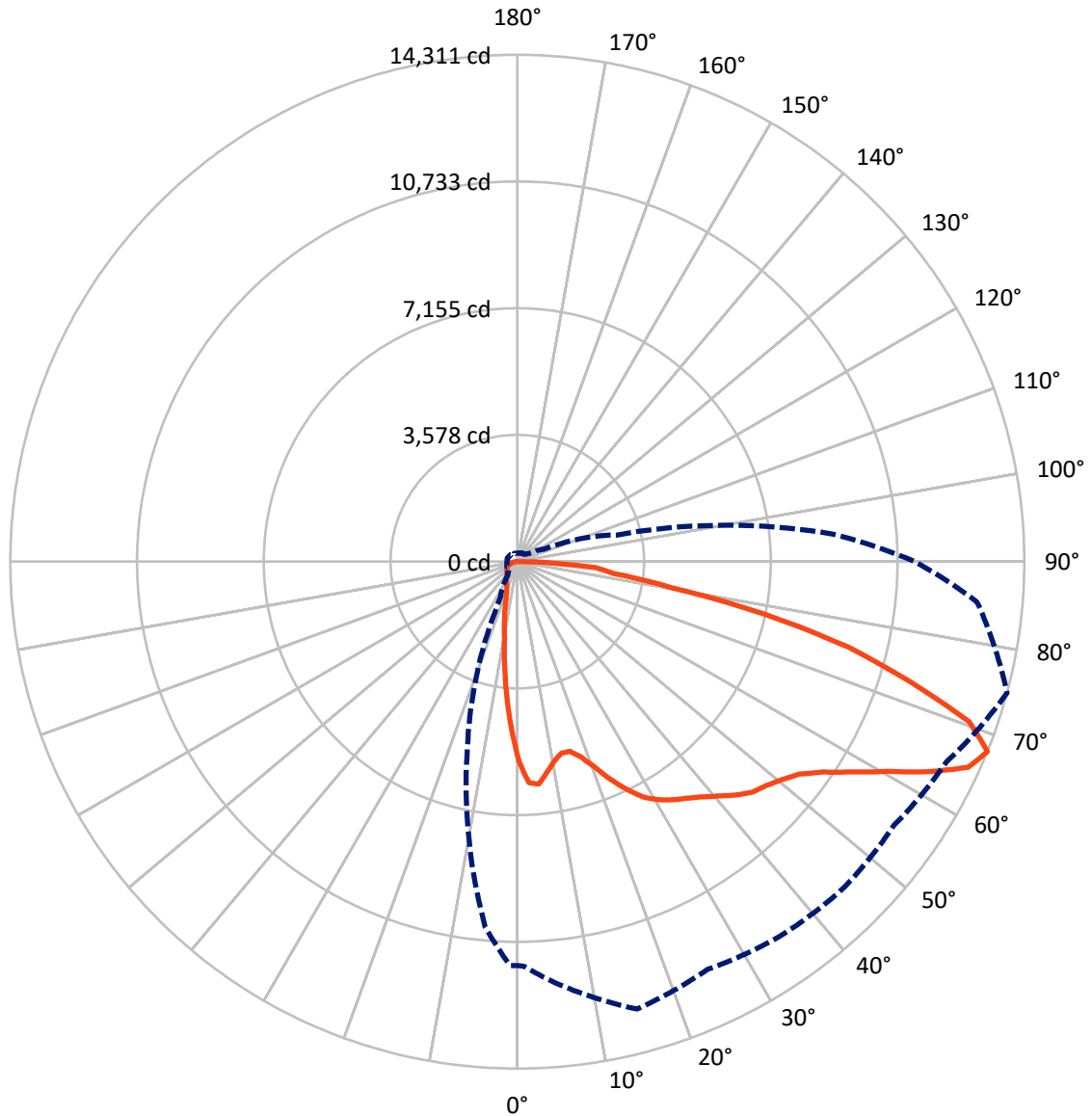
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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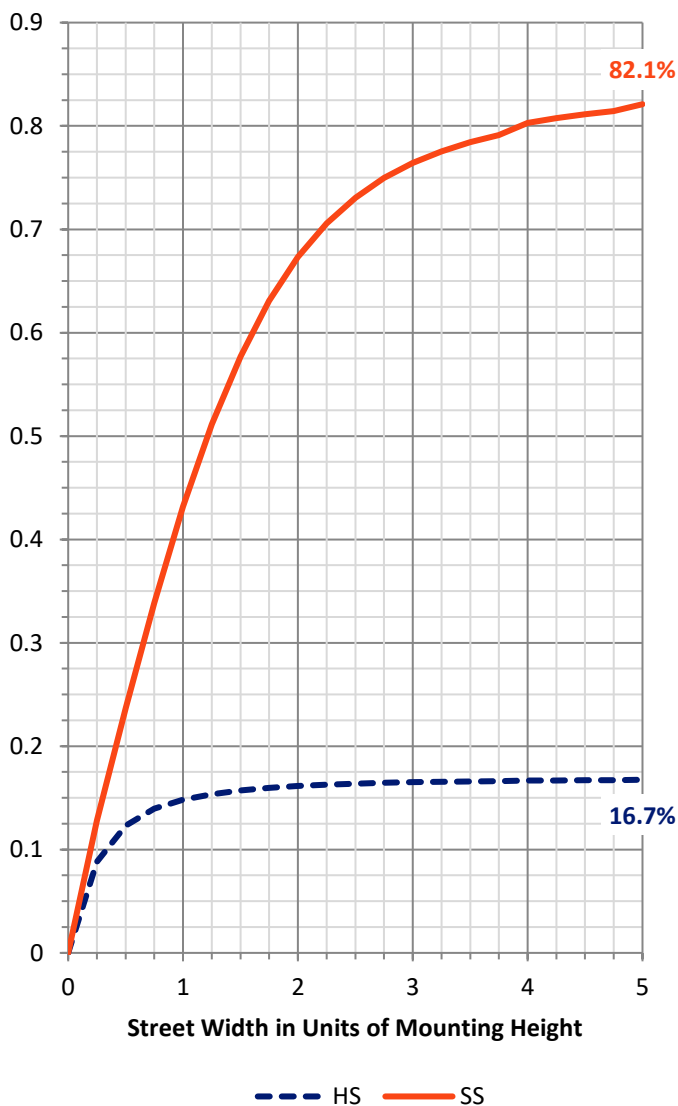
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3052.0	0.0	3052.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	15005.0	0.0	15005.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	18057.0	0.0	18057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.9	2.4
10°-20°	892.4	4.9
20°-30°	1284.1	7.1
30°-40°	1849.5	10.2
40°-50°	2598.1	14.4
50°-60°	3623.4	20.1
60°-70°	4308.0	23.9
70°-80°	2537.2	14.1
80°-90°	536.5	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°	18057.0	100.0
0°-180°	18057.0	100.0

Coefficient of Utilization



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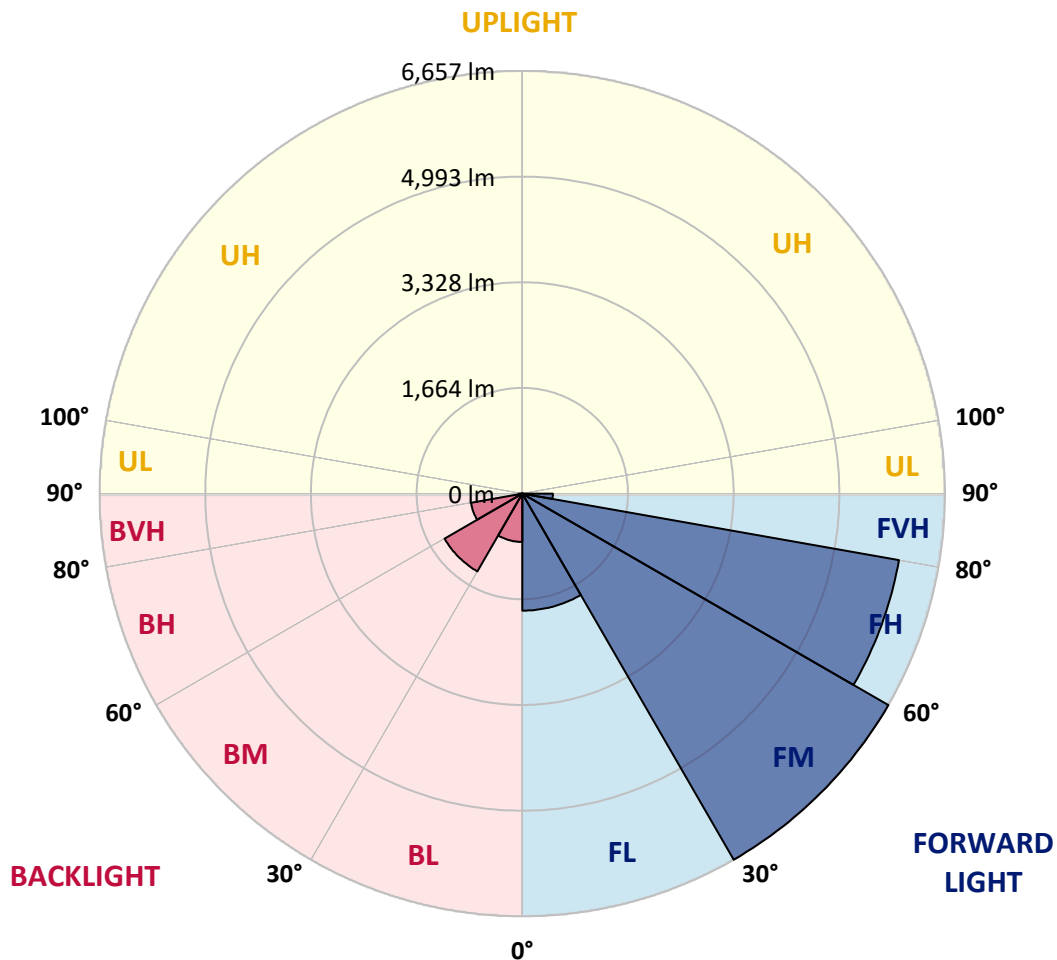
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.1	10.2			
FM	(30°-60°)	6656.9	36.9			
FH	(60°-80°)	6023.9	33.4			G3/7500
FVH	(80°-90°)	481.0	2.7			G3/500
BL	(0°-30°)	761.3	4.2	B2/1000		
BM	(30°-60°)	1414.0	7.8	B2/2500		
BH	(60°-80°)	821.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	55.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4
2.5°	6082.6	6090.7	6142.8	6294.5	6398.7	6436.9	6463.6	6413.8	6365.1	6247.0	6068.7
5°	6064.1	6111.6	6247.0	6587.5	6856.1	6971.9	7006.6	6857.3	6610.6	6307.2	5942.5
7.5°	5709.8	5773.4	5981.9	6552.7	7026.3	7297.3	7261.4	6991.6	6546.9	6006.2	5496.7
10°	5289.4	5360.1	5611.3	6301.5	6911.7	7284.5	7284.5	6955.7	6365.1	5722.5	5135.4
12.5°	4955.9	5030.0	5317.2	6043.2	6673.1	7026.3	7085.4	6802.8	6234.3	5543.0	4898.0
15°	4845.9	4917.7	5226.9	5886.9	6420.7	6636.1	6655.8	6563.1	6170.6	5555.7	4887.6
17.5°	4982.6	5075.2	5387.8	5933.2	6189.1	6201.9	6216.9	6289.9	6177.6	5788.5	5098.4
20°	5377.4	5477.0	5803.5	6082.6	5986.5	5854.5	5862.6	6050.2	6259.8	6172.9	5602.1
22.5°	5947.1	6034.0	6368.6	6345.5	5900.8	5628.7	5572.0	5833.7	6381.4	6652.3	6138.2
25°	6562.0	6663.9	7048.3	6735.7	5925.1	5494.4	5458.5	5706.3	6507.6	7100.4	6757.7
27.5°	7266.0	7365.6	7669.0	7129.4	6052.5	5484.0	5441.1	5694.7	6621.0	7515.0	7349.4
30°	7789.4	7880.9	8087.0	7460.5	6208.8	5553.4	5500.2	5786.2	6718.3	7798.7	7926.0
32.5°	8200.5	8295.4	8407.7	7666.7	6414.9	5679.6	5581.2	5952.9	6845.7	8015.2	8353.3
35°	8628.9	8741.2	8733.1	7849.6	6607.1	5825.5	5729.4	6193.8	7046.0	8203.9	8895.2
37.5°	9172.0	9217.1	9159.2	8014.0	6837.6	6088.4	6035.1	6551.6	7330.9	8432.0	9528.6
40°	9723.1	9813.5	9515.9	8213.2	7117.8	6582.8	6577.0	7080.7	7669.0	8699.5	10142.3
42.5°	10195.6	10272.0	9849.4	8386.9	7457.1	7186.1	7230.1	7790.6	8112.5	9009.9	10635.6
45°	10551.1	10619.4	10157.4	8554.8	7904.0	7883.2	8142.6	8551.3	8671.7	9288.9	10925.1
47.5°	10853.3	10919.3	10371.6	8809.5	8456.4	8715.7	9167.3	9344.5	9150.0	9448.7	11249.3
50°	11108.0	11127.7	10518.6	9112.9	9141.9	9735.9	10173.6	10288.2	9622.4	9678.0	11530.7
52.5°	11373.2	11347.7	10772.2	9495.0	9882.9	10703.9	11022.3	11141.6	10075.1	9960.5	11940.6
55°	11967.2	11991.5	11340.8	9976.7	10632.1	11654.6	12073.7	11959.1	10576.5	10480.4	12461.6
57.5°	12685.1	12664.3	12140.9	10730.5	11395.2	12539.2	12851.9	12667.8	11245.8	11194.9	12989.7
60°	12964.2	12992.0	12810.2	11541.1	12147.8	13313.9	13633.5	13347.5	12048.3	12025.1	13388.0
62.5°	12684.0	12840.3	12963.0	12262.5	12789.3	13883.6	14200.9	13874.3	12885.4	13053.3	13667.0
65°	12125.8	12159.4	12577.4	12873.9	13098.5	13977.4	14143.0	13969.3	13584.8	13990.1	13654.3
67.5°	11401.0	11429.9	11919.7	13074.2	12700.2	12912.1	13027.9	12976.9	13368.3	14310.9	13025.6
70°	10710.9	10687.7	11205.3	12563.5	11055.9	10734.0	10830.1	10670.3	11535.3	13526.9	11792.4
72.5°	9367.7	9451.0	10006.8	11143.9	8753.9	8230.6	8440.2	8026.8	8872.1	11585.1	9571.4
75°	7337.8	7357.5	8285.0	9352.6	6603.7	5778.1	6061.8	5889.2	6795.9	9664.1	6609.5
77.5°	5081.0	5037.0	6034.0	7143.3	4709.3	4229.9	4234.5	4152.3	4745.2	7115.5	4490.5
80°	3227.2	3160.0	3777.2	4412.9	3236.4	3462.2	3348.7	3345.3	3089.4	4389.7	2715.3
82.5°	1743.8	1817.9	2386.5	2766.3	2321.6	2676.0	2452.5	2380.7	2120.2	2747.8	1736.9
85°	794.3	863.8	1272.6	1881.6	1763.5	1783.2	1191.5	1405.7	1754.3	2231.3	927.5
87.5°	77.6	99.6	262.9	888.1	602.1	474.8	177.2	341.6	441.2	793.2	74.1
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°	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4
2.5°	5995.8	5935.5	5730.6	5561.5	5382.1	5245.4	5067.1	4947.8	4865.6	4741.7	4726.7
5°	5720.2	5573.1	5216.5	4852.9	4539.1	4302.9	4063.2	3843.2	3713.5	3673.0	3620.8
7.5°	5255.8	5008.0	4549.5	4132.7	3772.5	3420.5	3149.6	2957.4	2828.8	2753.6	2663.2
10°	4873.7	4586.6	4028.4	3517.8	3221.4	3002.5	2764.0	2557.9	2399.2	2263.8	2189.6
12.5°	4616.7	4292.4	3664.8	3250.3	3021.0	2788.3	2509.2	2277.6	2043.7	1889.7	1823.7
15°	4539.1	4196.3	3552.5	3117.1	2788.3	2483.8	2171.1	1868.9	1637.3	1491.4	1442.8
17.5°	4729.0	4314.4	3551.4	2940.0	2515.0	2151.4	1750.8	1467.1	1229.7	1120.9	1086.1
20°	5083.3	4541.4	3561.8	2765.1	2218.6	1706.8	1273.7	1041.0	927.5	881.2	863.8
22.5°	5577.7	4887.6	3593.1	2592.6	1894.4	1310.8	954.1	836.0	795.5	787.4	783.9
25°	6186.8	5316.1	3698.4	2437.4	1621.1	1000.5	797.8	744.5	721.4	713.3	712.1
27.5°	6747.3	5869.5	3825.8	2304.3	1357.1	862.7	721.4	676.2	653.1	651.9	654.2
30°	7253.3	6332.7	3932.3	2154.9	1156.8	766.5	671.6	626.4	604.4	603.3	610.2
32.5°	7691.0	6713.7	4011.1	2007.9	1045.6	707.5	626.4	577.8	559.3	555.8	559.3
35°	8158.8	7093.5	3975.2	1893.2	981.9	658.9	592.9	545.4	523.4	513.0	513.0
37.5°	8692.6	7484.9	3913.8	1798.3	953.0	618.3	563.9	517.6	495.6	485.2	484.0
40°	9275.0	7876.2	3829.3	1713.7	924.0	594.0	544.2	495.6	469.0	458.5	456.2
42.5°	9789.1	8210.9	3759.8	1658.2	876.6	598.6	526.9	479.4	445.8	431.9	430.7
45°	10236.1	8547.8	3747.1	1625.7	837.2	591.7	522.2	466.6	427.3	412.2	409.9
47.5°	10585.8	8898.7	3820.0	1607.2	794.3	554.6	552.3	458.5	411.1	394.9	392.5
50°	11011.9	9396.6	3986.8	1569.0	755.0	519.9	583.6	457.4	398.3	377.5	371.7
52.5°	11579.3	10045.0	4212.5	1500.7	698.2	487.5	557.0	457.4	383.3	362.4	355.5
55°	12437.3	10871.8	4433.7	1404.6	618.3	444.6	502.5	443.5	361.3	342.7	338.1
57.5°	13005.9	11476.2	4575.0	1271.4	518.8	413.4	433.1	421.5	339.3	319.6	319.6
60°	13034.8	11638.4	4507.8	1103.5	456.2	384.4	376.3	425.0	319.6	298.7	296.4
62.5°	12701.3	11241.2	4158.1	953.0	422.6	353.2	340.4	372.9	299.9	279.1	275.6
65°	12180.3	10228.0	3551.4	881.2	404.1	325.4	306.9	305.7	279.1	259.4	254.7
67.5°	11222.7	8938.1	2918.0	839.5	394.9	294.1	276.7	271.0	254.7	238.5	236.2
70°	9811.1	7486.0	2340.2	822.1	390.2	261.7	247.8	240.8	227.0	214.2	213.1
72.5°	7633.1	6072.2	1931.4	810.6	387.9	231.6	216.5	207.3	199.2	187.6	187.6
75°	5482.8	4467.3	1474.0	730.7	359.0	199.2	183.0	177.2	165.6	156.3	158.6
77.5°	3456.4	3008.3	970.3	537.3	277.9	159.8	145.9	142.4	133.2	120.4	128.5
80°	2334.4	2115.5	566.2	338.1	174.8	117.0	112.3	111.2	100.7	86.8	88.0
82.5°	1588.7	1558.6	294.1	192.2	100.7	68.3	66.0	68.3	56.7	46.3	46.3
85°	620.7	847.6	139.0	75.3	32.4	10.4	15.1	16.2	9.3	4.6	5.8
87.5°	11.6	86.8	3.5	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°	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4
2.5°	4703.5	4693.1	4710.5	4636.4	4651.4	4679.2	4693.1	4701.2	4815.8	4789.2	4862.1
5°	3669.5	3659.1	3726.2	3735.5	3770.2	3763.3	3796.9	3805.0	3846.6	3861.7	3963.6
7.5°	2669.0	2714.2	2790.6	2830.0	2889.0	2907.6	2890.2	2933.0	2846.2	2908.7	2927.2
10°	2144.5	2090.1	2057.6	2148.0	2159.5	2245.2	2210.5	2182.7	2233.6	2236.0	2284.6
12.5°	1785.5	1668.6	1591.0	1616.5	1644.3	1681.3	1687.1	1742.7	1779.7	1814.5	1843.4
15°	1399.9	1359.4	1288.8	1254.0	1293.4	1308.5	1344.4	1390.7	1430.0	1440.5	1479.8
17.5°	1074.6	1081.5	1069.9	1049.1	1073.4	1085.0	1087.3	1088.5	1098.9	1091.9	1149.8
20°	865.0	889.3	918.2	922.9	931.0	936.8	926.3	887.0	888.1	912.4	931.0
22.5°	782.8	787.4	819.8	830.2	855.7	845.3	815.2	796.7	794.3	800.1	809.4
25°	717.9	724.9	748.0	764.2	783.9	765.4	743.4	726.0	723.7	729.5	738.8
27.5°	660.0	670.4	691.3	707.5	726.0	708.7	687.8	672.8	671.6	670.4	676.2
30°	613.7	625.3	640.3	658.9	671.6	656.5	636.9	628.8	627.6	625.3	627.6
32.5°	567.4	585.9	601.0	610.2	623.0	611.4	596.3	591.7	583.6	576.6	573.2
35°	515.3	535.0	558.1	569.7	582.4	570.9	560.4	540.8	526.9	525.7	528.0
37.5°	485.2	493.3	511.8	531.5	544.2	538.4	518.8	499.1	495.6	495.6	497.9
40°	458.5	462.0	470.1	495.6	518.8	501.4	477.1	471.3	471.3	470.1	471.3
42.5°	431.9	435.4	435.4	455.1	492.1	464.3	445.8	445.8	445.8	447.0	450.4
45°	407.6	408.7	407.6	421.5	456.2	433.1	420.3	423.8	426.1	428.4	430.7
47.5°	386.7	387.9	386.7	398.3	415.7	406.4	399.5	404.1	408.7	412.2	414.5
50°	368.2	367.1	369.4	376.3	384.4	386.7	382.1	389.1	391.4	396.0	401.8
52.5°	352.0	350.9	353.2	356.6	368.2	368.2	368.2	374.0	378.6	383.3	391.4
55°	333.5	334.6	338.1	342.7	357.8	355.5	356.6	361.3	365.9	372.9	377.5
57.5°	316.1	318.4	323.1	330.0	345.1	343.9	345.1	347.4	353.2	356.6	361.3
60°	296.4	301.1	306.9	311.5	326.5	325.4	331.2	335.8	339.3	339.3	341.6
62.5°	276.7	283.7	289.5	293.0	309.2	310.3	318.4	321.9	324.2	321.9	325.4
65°	257.1	267.5	269.8	274.4	290.6	291.8	301.1	309.2	306.9	304.5	310.3
67.5°	237.4	250.1	249.0	254.7	271.0	273.3	281.4	295.3	290.6	288.3	293.0
70°	215.4	224.6	225.8	229.3	251.3	247.8	260.5	273.3	269.8	271.0	271.0
72.5°	191.1	199.2	199.2	206.1	229.3	223.5	233.9	247.8	247.8	246.6	246.6
75°	162.1	166.7	171.4	181.8	206.1	199.2	206.1	218.8	221.2	218.8	218.8
77.5°	130.8	137.8	140.1	154.0	171.4	170.2	177.2	183.0	187.6	185.3	185.3
80°	92.6	99.6	108.8	123.9	134.3	137.8	141.3	145.9	148.2	148.2	150.5
82.5°	52.1	62.5	70.6	85.7	90.3	107.7	106.5	110.0	106.5	93.8	104.2
85°	11.6	22.0	31.3	39.4	45.2	62.5	66.0	74.1	61.4	56.7	56.7
87.5°	0.0	0.0	0.0	0.0	0.0	9.3	18.5	25.5	22.0	18.5	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4	5641.4
2.5°	4923.5	5024.3	5145.8	5355.4	5502.5	5661.1	5820.9	5991.1	6036.3	6082.6
5°	3991.4	4189.4	4297.1	4578.5	4873.7	5248.9	5555.7	5891.5	6031.7	6064.1
7.5°	3023.4	3157.7	3440.2	3725.1	4091.0	4484.7	4954.8	5478.2	5641.4	5709.8
10°	2396.9	2579.9	2827.7	3133.4	3454.1	3877.9	4408.2	5019.6	5251.2	5289.4
12.5°	2040.3	2244.1	2513.9	2836.9	3140.3	3459.9	3994.9	4625.9	4873.7	4955.9
15°	1631.5	1878.2	2189.6	2530.1	2860.1	3209.8	3751.7	4463.8	4749.8	4845.9
17.5°	1281.8	1481.0	1817.9	2187.3	2578.7	3021.0	3700.7	4541.4	4893.4	4982.6
20°	980.8	1123.2	1406.9	1797.1	2255.6	2834.6	3713.5	4834.4	5255.8	5377.4
22.5°	847.6	920.6	1093.1	1464.8	1977.7	2672.5	3765.6	5236.2	5744.5	5947.1
25°	767.7	805.9	903.2	1146.4	1712.6	2515.0	3884.9	5776.9	6427.7	6562.0
27.5°	699.4	727.2	787.4	962.2	1471.7	2369.1	4023.8	6376.7	7065.7	7266.0
30°	634.5	671.6	728.3	854.6	1317.7	2236.0	4198.7	6863.1	7603.0	7789.4
32.5°	584.8	621.8	673.9	779.3	1186.9	2095.9	4302.9	7290.3	8041.8	8200.5
35°	544.2	575.5	629.9	719.1	1087.3	1989.3	4282.0	7629.6	8466.8	8628.9
37.5°	515.3	541.9	596.3	662.3	1012.0	1878.2	4271.6	8077.7	8984.4	9172.0
40°	488.6	516.4	566.2	625.3	936.8	1747.3	4277.4	8522.4	9535.6	9723.1
42.5°	467.8	499.1	539.6	614.9	859.2	1641.9	4277.4	8909.1	10014.9	10195.6
45°	450.4	484.0	523.4	613.7	797.8	1562.0	4248.4	9241.4	10397.1	10551.1
47.5°	435.4	472.4	529.2	592.9	782.8	1504.2	4223.0	9507.8	10708.5	10853.3
50°	425.0	469.0	562.8	568.5	787.4	1486.8	4345.7	9843.6	10983.0	11108.0
52.5°	416.9	470.1	561.6	532.6	779.3	1498.4	4601.6	10368.1	11363.9	11373.2
55°	400.6	469.0	532.6	492.1	745.7	1518.0	4930.5	11130.0	11960.3	11967.2
57.5°	384.4	456.2	494.4	457.4	677.4	1518.0	5326.5	11851.4	12679.3	12685.1
60°	368.2	474.8	434.2	427.3	588.2	1490.3	5744.5	12168.7	12905.1	12964.2
62.5°	352.0	478.2	387.9	400.6	523.4	1423.1	6056.0	11817.8	12599.4	12684.0
65°	333.5	385.6	357.8	372.9	489.8	1310.8	5957.5	11175.2	12025.1	12125.8
67.5°	311.5	326.5	325.4	343.9	478.2	1145.2	5438.8	10362.3	11406.8	11401.0
70°	284.9	293.0	296.4	316.1	456.2	1016.7	4532.1	9307.4	10581.2	10710.9
72.5°	257.1	264.0	267.5	284.9	434.2	943.7	3517.8	7854.2	9165.0	9367.7
75°	227.0	231.6	236.2	251.3	411.1	836.0	2505.8	5995.8	7019.4	7337.8
77.5°	195.7	195.7	201.5	216.5	346.2	690.1	1681.3	4205.6	4755.6	5081.0
80°	158.6	159.8	157.5	173.7	254.7	472.4	955.3	2809.1	3164.6	3227.2
82.5°	121.6	118.1	119.3	127.4	189.9	321.9	509.5	1745.0	1778.6	1743.8
85°	76.4	76.4	74.1	83.4	121.6	167.9	277.9	1068.8	834.9	794.3
87.5°	31.3	25.5	28.9	33.6	57.9	68.3	108.8	220.0	84.5	77.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)