

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: P529249

Luminaire Tested: **GALN-SA4B-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9148 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

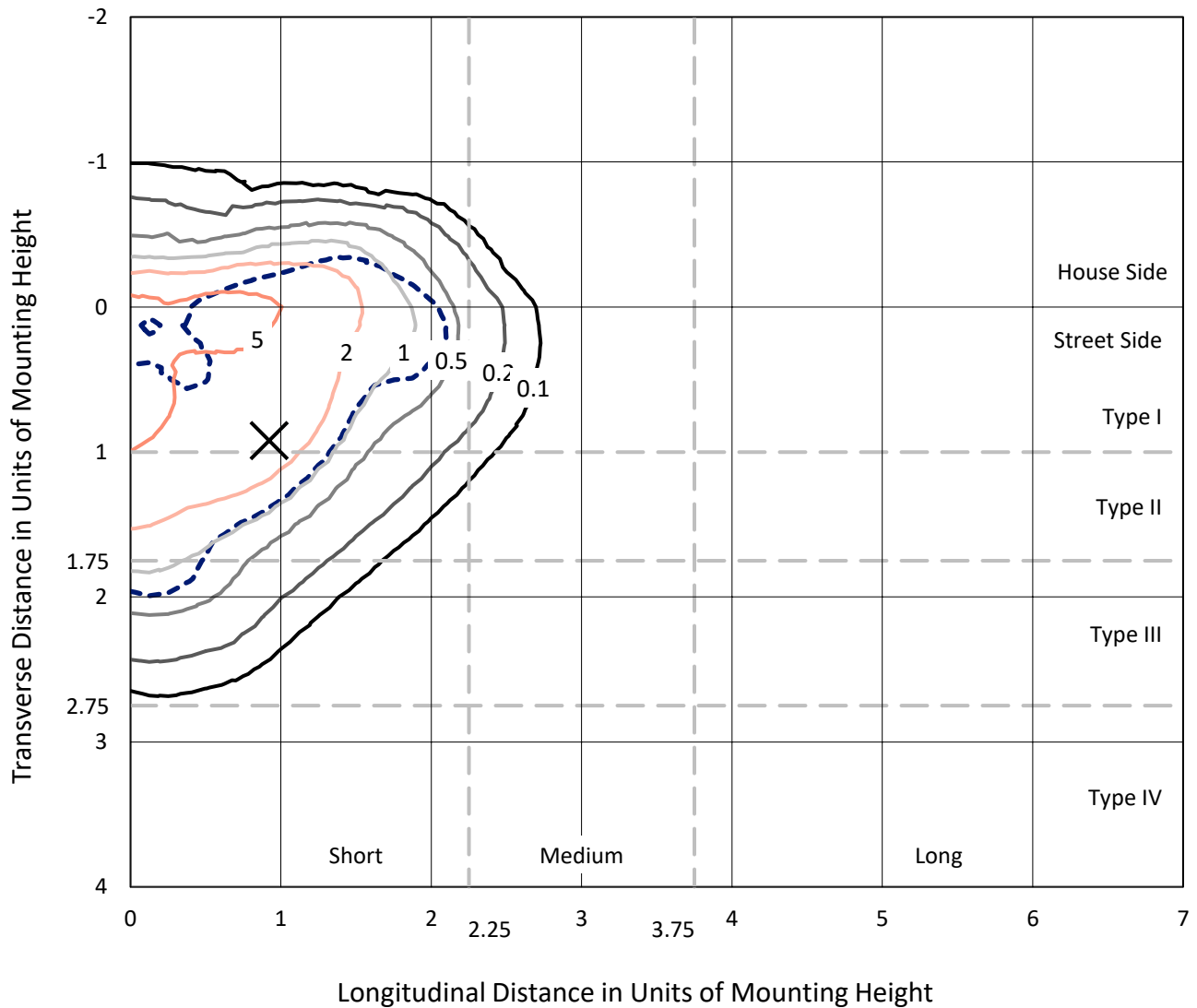
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

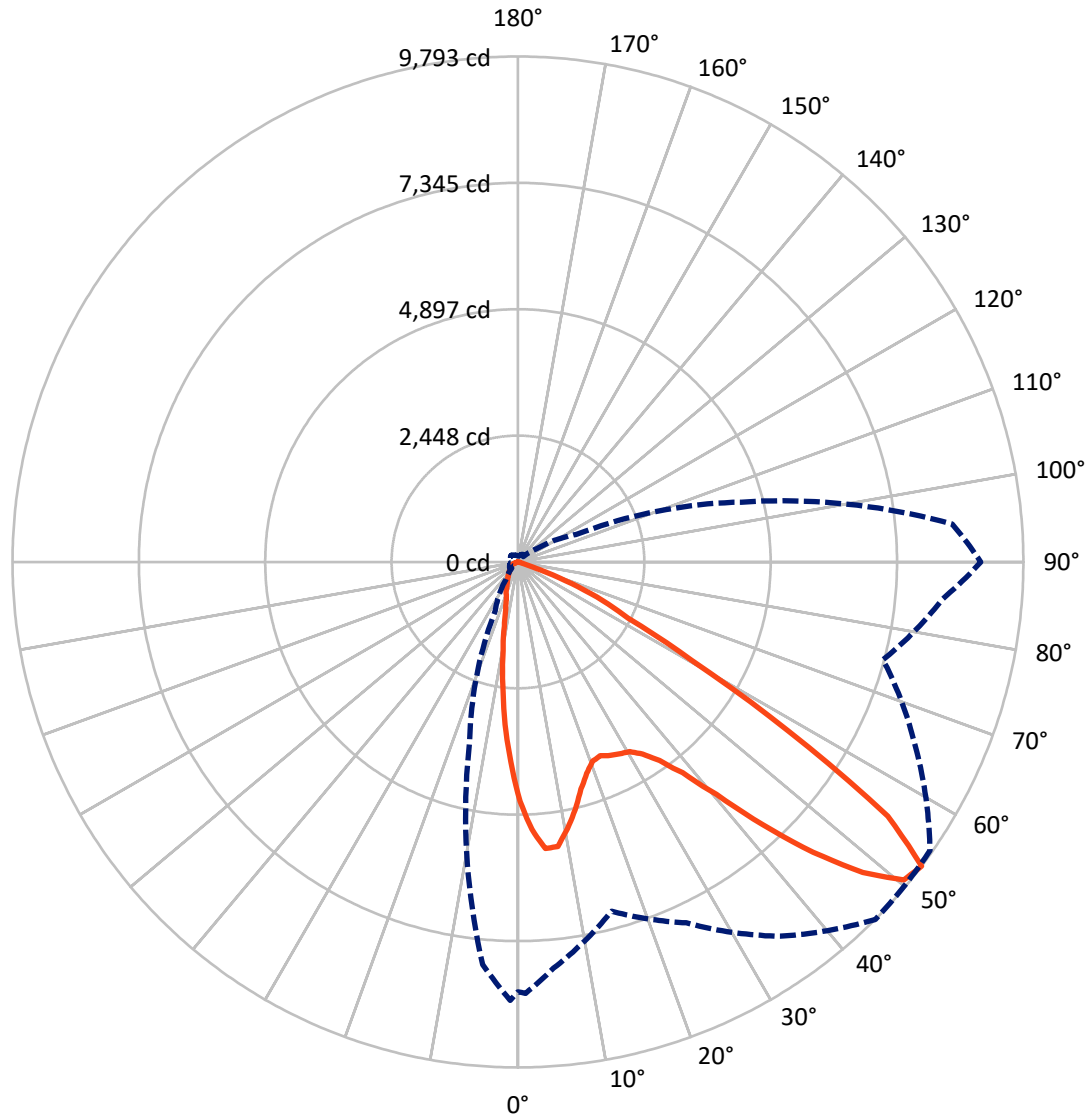
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1856.6	0.0	1856.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7291.4	0.0	7291.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	9148.0	0.0	9148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	3.7
10°-20°	667.4	7.3
20°-30°	1015.7	11.1
30°-40°	1518.1	16.6
40°-50°	2161.8	23.6
50°-60°	2323.9	25.4
60°-70°	1029.8	11.3
70°-80°	83.3	0.9
80°-90°	9.7	0.1
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°	9148.0	100.0
0°-180°	9148.0	100.0

Coefficient of Utilization

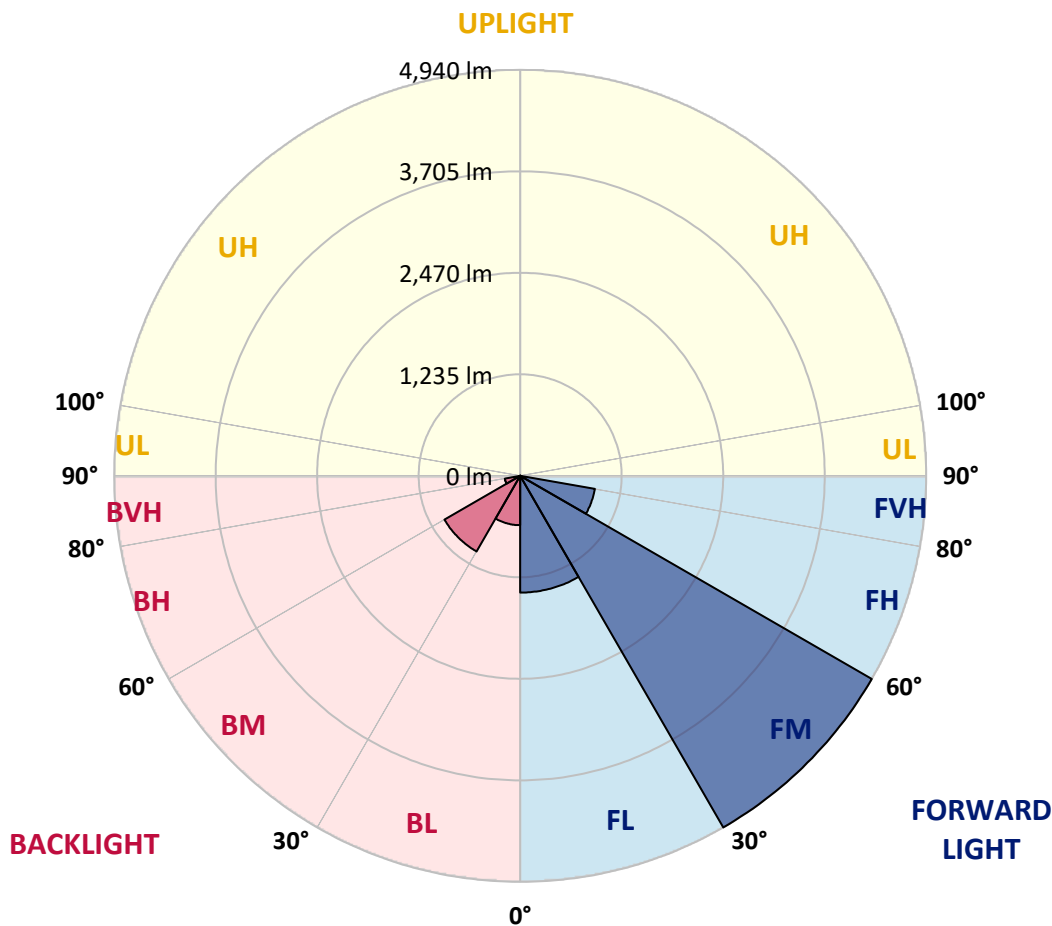


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.9	15.5			
FM (30°-60°)	4940.2	54.0			
FH (60°-80°)	923.2	10.1			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	600.5	6.6	B2/1000		
BM (30°-60°)	1063.6	11.6	B2/2500		
BH (60°-80°)	190.0	2.1	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5
2.5°	4908.3	4922.7	5001.9	5100.9	5153.0	5271.8	5189.0	5210.6	5165.6	5007.3	4883.2
5°	4759.0	4757.2	4858.0	5102.7	5334.8	5570.5	5577.7	5451.7	5230.4	4987.5	4640.3
7.5°	4309.2	4379.4	4483.7	4874.2	5304.2	5480.5	5565.1	5417.5	5077.5	4730.2	4354.2
10°	3969.1	4005.1	4181.5	4652.9	4967.7	5203.4	5255.6	5171.0	4910.1	4476.5	4055.5
12.5°	3773.0	3791.0	3997.9	4393.8	4726.6	4901.2	4926.3	4965.9	4778.8	4372.2	3866.6
15°	3774.8	3789.2	4068.1	4399.2	4530.5	4483.7	4566.5	4564.7	4645.7	4352.4	4024.9
17.5°	4046.5	4062.7	4314.6	4478.3	4420.8	4311.0	4305.6	4388.4	4559.3	4598.9	4264.2
20°	4514.3	4552.1	4737.4	4728.4	4404.6	4183.3	4122.1	4185.1	4582.7	4807.6	4746.4
22.5°	5144.0	5196.2	5325.8	5077.5	4478.3	4096.9	4077.1	4199.4	4737.4	5273.6	5293.4
25°	5874.5	5962.7	6025.7	5707.2	4741.0	4246.2	4152.7	4363.2	4946.1	5779.2	5989.7
27.5°	6358.5	6450.3	6435.9	5980.7	4917.3	4285.8	4206.6	4402.8	5127.9	5899.7	6353.1
30°	6736.4	6792.2	6892.9	6128.2	5093.7	4397.4	4262.4	4570.1	5187.2	6108.4	6792.2
32.5°	7177.2	7215.0	7222.2	6389.1	5365.4	4537.7	4435.1	4778.8	5449.9	6308.2	7180.8
35°	7621.6	7677.4	7560.4	6711.2	5532.7	4798.6	4723.0	5140.5	5660.4	6515.1	7609.0
37.5°	8103.8	8132.6	7862.7	6844.3	5772.0	5223.2	5181.8	5530.9	6025.7	6889.3	8084.0
40°	8508.6	8535.6	8184.8	7008.1	6023.9	5817.0	5923.1	6275.8	6522.3	7132.2	8321.5
42.5°	8733.5	8796.5	8292.7	6918.1	6529.5	6489.9	6961.3	7085.4	7098.0	7200.6	8533.8
45°	8794.7	8765.9	8114.6	6991.9	6972.1	7596.4	8024.6	8188.4	7670.2	7326.5	8587.8
47.5°	8512.2	8550.0	7851.9	6927.1	7553.2	8434.9	8989.0	9293.1	8096.6	7216.8	8454.7
50°	8283.7	8235.2	7767.4	6880.3	7709.8	8830.7	9685.4	9753.7	8488.9	7351.7	8308.9
52.5°	8328.7	8359.3	7902.3	7004.5	7713.4	8854.1	9793.3	9746.5	8501.4	7321.1	8256.7
55°	8424.1	8289.1	7844.7	6731.0	7197.0	8201.0	8692.2	8620.2	7846.5	6995.5	8129.0
57.5°	7269.0	7477.7	7213.2	6009.5	5906.9	6178.6	6169.6	6390.9	5853.0	6020.3	7400.3
60°	5899.7	5935.7	6034.7	5140.5	4087.9	3994.3	3864.8	3724.4	3938.6	5147.6	6731.0
62.5°	5189.0	5145.8	5498.5	4676.2	2886.0	2416.4	2394.8	2481.2	3038.9	4910.1	6313.6
65°	3771.2	3825.2	4080.7	3629.1	2166.3	1844.2	1811.8	2067.3	2459.6	3935.0	4818.4
67.5°	2303.0	2407.4	2430.8	2238.3	1470.0	1167.7	1120.9	1353.0	1775.9	2545.9	2824.8
70°	1063.4	1189.3	1308.1	1221.7	851.0	480.4	453.4	568.6	896.0	1464.6	1498.8
72.5°	322.1	323.9	453.4	473.2	275.3	108.0	95.4	125.9	304.1	484.0	509.2
75°	23.4	25.2	61.2	70.2	52.2	27.0	28.8	34.2	64.8	108.0	81.0
77.5°	1.8	1.8	1.8	9.0	16.2	18.0	23.4	27.0	34.2	39.6	36.0
80°	1.8	0.0	1.8	7.2	12.6	18.0	21.6	25.2	27.0	30.6	27.0
82.5°	0.0	0.0	0.0	5.4	12.6	18.0	19.8	27.0	30.6	36.0	30.6
85°	0.0	0.0	0.0	5.4	12.6	19.8	18.0	9.0	0.0	0.0	0.0
87.5°	0.0	0.0	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°	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5
2.5°	4904.7	4834.6	4674.4	4593.5	4402.8	4375.8	4188.6	4158.1	4095.1	4060.9	3978.1
5°	4487.3	4402.8	4141.9	3922.4	3666.9	3488.7	3352.0	3227.9	3155.9	3089.3	3119.9
7.5°	4147.3	3900.8	3611.1	3244.0	2949.0	2758.2	2549.5	2378.6	2277.8	2209.5	2225.7
10°	3791.0	3630.9	3227.9	2815.8	2459.6	2324.6	2160.9	2029.6	1887.4	1765.1	1707.5
12.5°	3679.5	3442.0	2936.4	2517.1	2247.3	2115.9	1928.8	1777.7	1595.9	1446.6	1394.4
15°	3699.3	3470.7	2857.2	2409.2	2090.7	1864.0	1640.9	1453.8	1254.1	1149.7	1095.7
17.5°	4021.3	3625.5	2909.4	2295.8	1873.0	1558.1	1282.9	1045.4	896.0	788.1	764.7
20°	4417.2	3960.1	3020.9	2213.1	1694.9	1239.7	937.4	732.3	608.1	590.2	584.8
22.5°	4996.5	4507.1	3260.2	2157.3	1477.2	966.2	642.3	532.6	498.4	494.8	496.6
25°	5806.2	5192.6	3521.1	2110.5	1313.5	744.9	525.4	451.6	440.8	435.4	444.4
27.5°	6157.0	5606.5	3659.7	2009.8	1164.1	671.1	518.2	448.0	417.4	408.4	413.8
30°	6590.6	5881.7	3877.4	1837.0	944.6	552.4	484.0	487.6	473.2	428.2	413.8
32.5°	7166.4	6225.4	3987.1	1714.7	843.8	457.0	354.5	325.7	363.4	370.6	383.2
35°	7535.3	6574.5	4042.9	1642.7	791.7	390.4	300.5	273.5	264.5	266.3	273.5
37.5°	8220.8	7045.9	4113.1	1567.1	752.1	340.1	271.7	246.5	233.9	233.9	241.1
40°	8631.0	7420.1	4208.4	1525.8	712.5	309.5	246.5	224.9	214.1	214.1	217.7
42.5°	8733.5	7605.4	4176.1	1511.4	667.5	302.3	224.9	208.7	196.1	194.3	192.5
45°	8917.1	7887.9	4181.5	1495.2	620.7	275.3	212.3	194.3	176.3	174.5	172.7
47.5°	9118.6	8091.2	4192.2	1432.2	575.8	230.3	221.3	179.9	158.3	154.7	154.7
50°	8945.9	8253.2	4285.8	1369.2	518.2	187.1	217.7	169.1	140.3	134.9	136.7
52.5°	8967.5	8443.9	4483.7	1281.1	446.2	149.3	176.3	160.1	127.7	118.8	120.5
55°	8622.0	8242.4	4510.7	1187.5	349.1	115.2	134.9	140.3	108.0	104.4	104.4
57.5°	7421.9	6979.3	3979.9	962.6	230.3	95.4	97.2	122.3	93.6	90.0	91.8
60°	6351.3	5602.9	3202.7	635.1	143.9	75.6	70.2	124.1	82.8	81.0	86.4
62.5°	5790.0	4604.3	2429.0	394.0	99.0	57.6	48.6	100.8	72.0	72.0	79.2
65°	4183.3	3092.9	1412.4	206.9	70.2	45.0	36.0	57.6	59.4	61.2	64.8
67.5°	2590.9	1561.7	595.6	100.8	46.8	30.6	23.4	36.0	39.6	39.6	43.2
70°	1279.3	622.5	197.9	57.6	36.0	25.2	16.2	19.8	19.8	18.0	19.8
72.5°	395.8	187.1	50.4	36.0	25.2	16.2	9.0	7.2	3.6	0.0	1.8
75°	45.0	36.0	32.4	25.2	16.2	7.2	1.8	0.0	0.0	0.0	0.0
77.5°	27.0	30.6	30.6	25.2	16.2	5.4	0.0	0.0	0.0	0.0	0.0
80°	21.6	23.4	25.2	23.4	14.4	7.2	0.0	0.0	0.0	0.0	0.0
82.5°	27.0	30.6	34.2	30.6	19.8	9.0	3.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.4	1.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5
2.5°	3944.0	3904.4	3960.1	3877.4	3875.6	3877.4	3854.0	3832.4	3866.6	3958.3	3967.3
5°	3010.1	3094.7	3121.7	3209.9	3161.3	3089.3	3103.7	3055.1	3173.9	3226.1	3184.7
7.5°	2191.5	2186.1	2367.8	2378.6	2402.0	2403.8	2400.2	2304.8	2207.7	2229.3	2294.0
10°	1700.3	1608.5	1696.7	1687.7	1745.3	1729.1	1752.5	1649.9	1684.1	1684.1	1725.5
12.5°	1385.4	1288.3	1272.1	1248.7	1272.1	1281.1	1290.1	1270.3	1327.8	1354.8	1383.6
15°	1058.0	1004.0	989.6	944.6	951.8	977.0	998.6	1007.6	989.6	1031.0	1034.6
17.5°	768.3	766.5	775.5	773.7	766.5	761.1	759.3	735.9	728.7	732.3	746.7
20°	583.0	597.4	627.9	658.5	674.7	654.9	627.9	588.4	572.2	575.8	577.6
22.5°	498.4	520.0	561.4	595.6	611.7	575.8	527.2	493.0	485.8	484.0	482.2
25°	451.6	476.8	507.4	518.2	516.4	494.8	458.8	444.4	440.8	437.2	421.0
27.5°	426.4	435.4	440.8	453.4	458.8	444.4	435.4	413.8	410.2	410.2	399.4
30°	412.0	406.6	413.8	404.8	412.0	401.2	403.0	403.0	394.0	397.6	397.6
32.5°	383.2	385.0	385.0	367.0	372.4	359.8	372.4	383.2	385.0	386.8	401.2
35°	280.7	313.1	329.3	329.3	334.7	325.7	323.9	311.3	295.1	278.9	271.7
37.5°	246.5	259.1	280.7	293.3	302.3	295.1	278.9	259.1	250.1	242.9	235.7
40°	219.5	230.3	244.7	259.1	277.1	268.1	242.9	233.9	223.1	223.1	215.9
42.5°	197.9	203.3	212.3	233.9	253.7	235.7	217.7	210.5	205.1	203.3	201.5
45°	178.1	179.9	188.9	206.9	230.3	212.3	194.3	185.3	187.1	188.9	187.1
47.5°	160.1	163.7	169.1	190.7	205.1	196.1	176.3	170.9	170.9	170.9	172.7
50°	138.5	147.5	158.3	176.3	187.1	181.7	165.5	158.3	154.7	154.7	156.5
52.5°	124.1	131.3	145.7	167.3	181.7	172.7	156.5	145.7	138.5	136.7	140.3
55°	108.0	120.5	143.9	160.1	179.9	170.9	152.9	140.3	127.7	125.9	125.9
57.5°	97.2	117.0	138.5	158.3	174.5	167.3	152.9	136.7	120.5	118.8	118.8
60°	91.8	113.4	134.9	152.9	174.5	163.7	151.1	133.1	115.2	115.2	113.4
62.5°	86.4	106.2	127.7	145.7	167.3	158.3	145.7	127.7	109.8	109.8	106.2
65°	72.0	91.8	106.2	122.3	145.7	136.7	124.1	111.6	97.2	93.6	95.4
67.5°	50.4	63.0	77.4	93.6	108.0	104.4	99.0	90.0	77.4	75.6	73.8
70°	25.2	34.2	46.8	63.0	75.6	72.0	68.4	61.2	54.0	52.2	52.2
72.5°	3.6	10.8	19.8	28.8	39.6	41.4	39.6	37.8	36.0	34.2	36.0
75°	0.0	0.0	0.0	7.2	16.2	19.8	23.4	27.0	27.0	23.4	28.8
77.5°	0.0	0.0	0.0	0.0	1.8	9.0	18.0	23.4	28.8	25.2	34.2
80°	0.0	0.0	0.0	0.0	1.8	10.8	18.0	25.2	28.8	25.2	36.0
82.5°	0.0	0.0	0.0	0.0	1.8	12.6	18.0	23.4	27.0	25.2	32.4
85°	0.0	0.0	0.0	0.0	5.4	10.8	7.2	3.6	1.8	1.8	5.4
87.5°	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5	4638.5
2.5°	4017.7	4145.5	4282.2	4334.4	4496.3	4618.7	4701.4	4879.6	4906.5	4908.3
5°	3227.9	3292.6	3526.5	3636.3	3877.4	4064.5	4264.2	4552.1	4744.6	4759.0
7.5°	2294.0	2474.0	2572.9	2859.0	3155.9	3449.2	3746.0	4080.7	4303.8	4309.2
10°	1846.0	1963.0	2139.3	2353.4	2603.5	2902.2	3298.0	3686.7	3913.4	3969.1
12.5°	1486.2	1691.3	1892.8	2114.1	2304.8	2529.7	2956.2	3474.3	3661.5	3773.0
15°	1144.3	1331.4	1568.9	1828.0	2043.9	2344.4	2830.2	3422.2	3737.0	3774.8
17.5°	843.8	1011.2	1230.7	1475.4	1799.2	2225.7	2851.8	3686.7	3983.5	4046.5
20°	606.3	703.5	876.2	1160.5	1572.5	2087.1	2873.4	3954.7	4406.4	4514.3
22.5°	480.4	520.0	633.3	885.2	1318.8	1941.4	3026.3	4467.5	4987.5	5144.0
25°	417.4	439.0	493.0	698.1	1158.7	1927.0	3271.0	5082.9	5761.2	5874.5
27.5°	403.0	406.6	453.4	640.5	1072.4	1831.6	3364.6	5520.1	6243.4	6358.5
30°	424.6	482.2	485.8	541.6	912.2	1642.7	3413.2	5942.9	6651.8	6736.4
32.5°	367.0	349.1	361.6	419.2	802.5	1533.0	3504.9	6311.8	7117.8	7177.2
35°	255.5	268.1	296.9	363.4	701.7	1417.8	3528.3	6718.4	7560.4	7621.6
37.5°	235.7	242.9	266.3	309.5	617.1	1353.0	3495.9	7015.3	8019.2	8103.8
40°	219.5	228.5	241.1	280.7	554.2	1281.1	3451.0	7283.4	8299.9	8508.6
42.5°	206.9	214.1	224.9	268.1	500.2	1209.1	3388.0	7661.2	8551.8	8733.5
45°	192.5	203.3	215.9	260.9	469.6	1160.5	3341.2	7637.8	8697.6	8794.7
47.5°	178.1	196.1	210.5	242.9	460.6	1137.1	3361.0	7549.6	8578.8	8512.2
50°	163.7	187.1	212.3	201.5	439.0	1090.3	3384.4	7670.2	8296.3	8283.7
52.5°	151.1	178.1	197.9	165.5	390.4	1045.4	3611.1	7828.5	8496.0	8328.7
55°	133.1	160.1	158.3	133.1	316.7	1011.2	3789.2	7832.1	8361.1	8424.1
57.5°	120.5	142.1	124.1	111.6	233.9	845.6	3499.5	6567.3	7157.4	7269.0
60°	111.6	138.5	93.6	88.2	152.9	609.9	3055.1	5086.5	5689.2	5899.7
62.5°	102.6	131.3	73.8	72.0	106.2	433.6	2511.8	4257.0	4903.0	5189.0
65°	90.0	93.6	59.4	55.8	75.6	233.9	1529.4	2931.0	3665.1	3771.2
67.5°	73.8	72.0	48.6	45.0	50.4	113.4	674.7	1468.2	2124.9	2303.0
70°	59.4	59.4	41.4	36.0	36.0	52.2	176.3	584.8	960.8	1063.4
72.5°	43.2	45.0	32.4	28.8	27.0	25.2	28.8	117.0	251.9	322.1
75°	37.8	39.6	32.4	25.2	19.8	16.2	12.6	10.8	14.4	23.4
77.5°	41.4	41.4	34.2	23.4	18.0	12.6	7.2	3.6	3.6	1.8
80°	52.2	54.0	45.0	30.6	21.6	14.4	9.0	3.6	1.8	1.8
82.5°	55.8	61.2	50.4	37.8	27.0	16.2	9.0	1.8	0.0	0.0
85°	14.4	23.4	39.6	34.2	27.0	16.2	9.0	1.8	0.0	0.0
87.5°	0.0	1.8	5.4	5.4	7.2	7.2	5.4	1.8	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

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