

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: P528391

Luminaire Tested: **GALN-SA3C-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528391
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-SA3C-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 9703 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

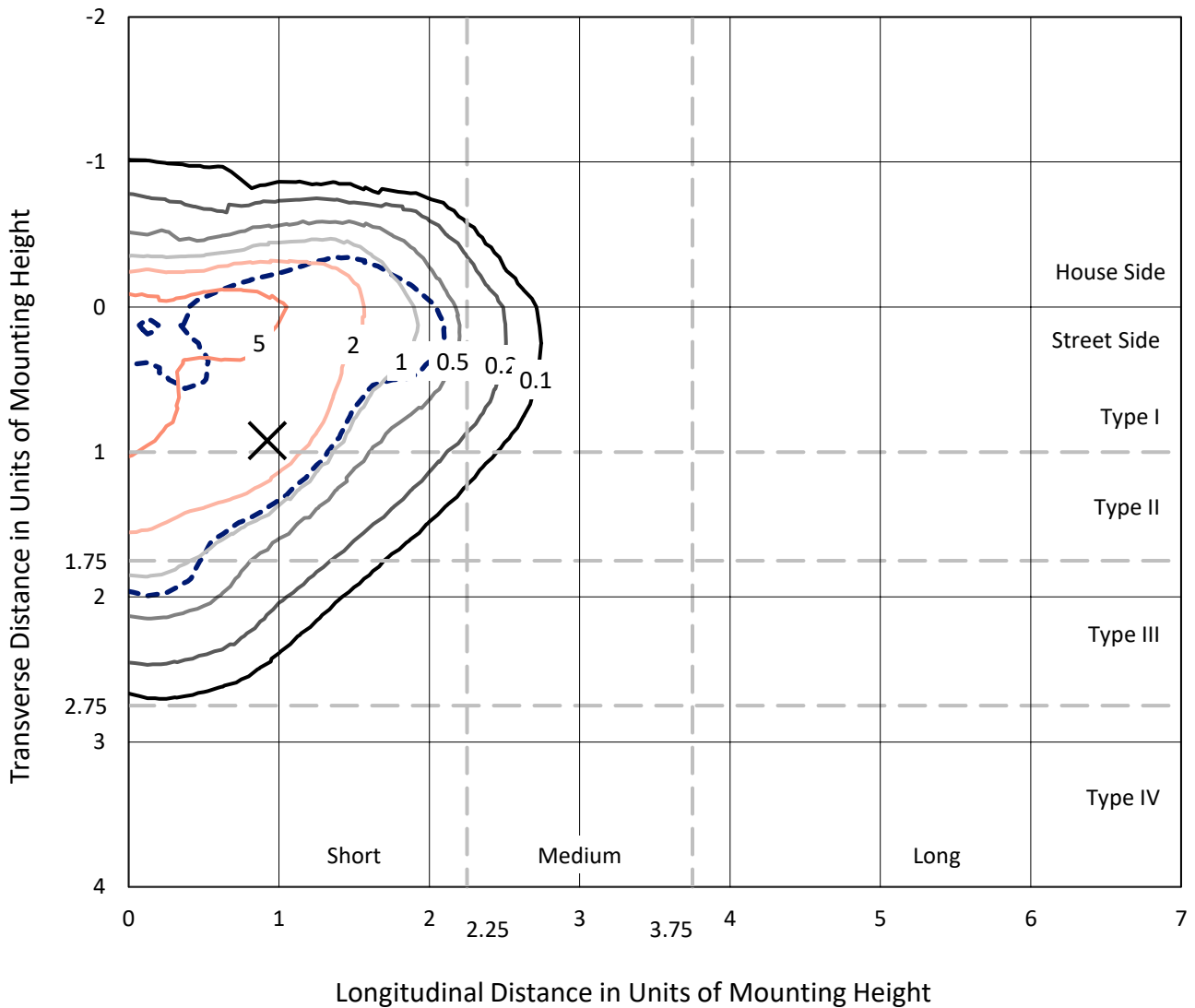
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

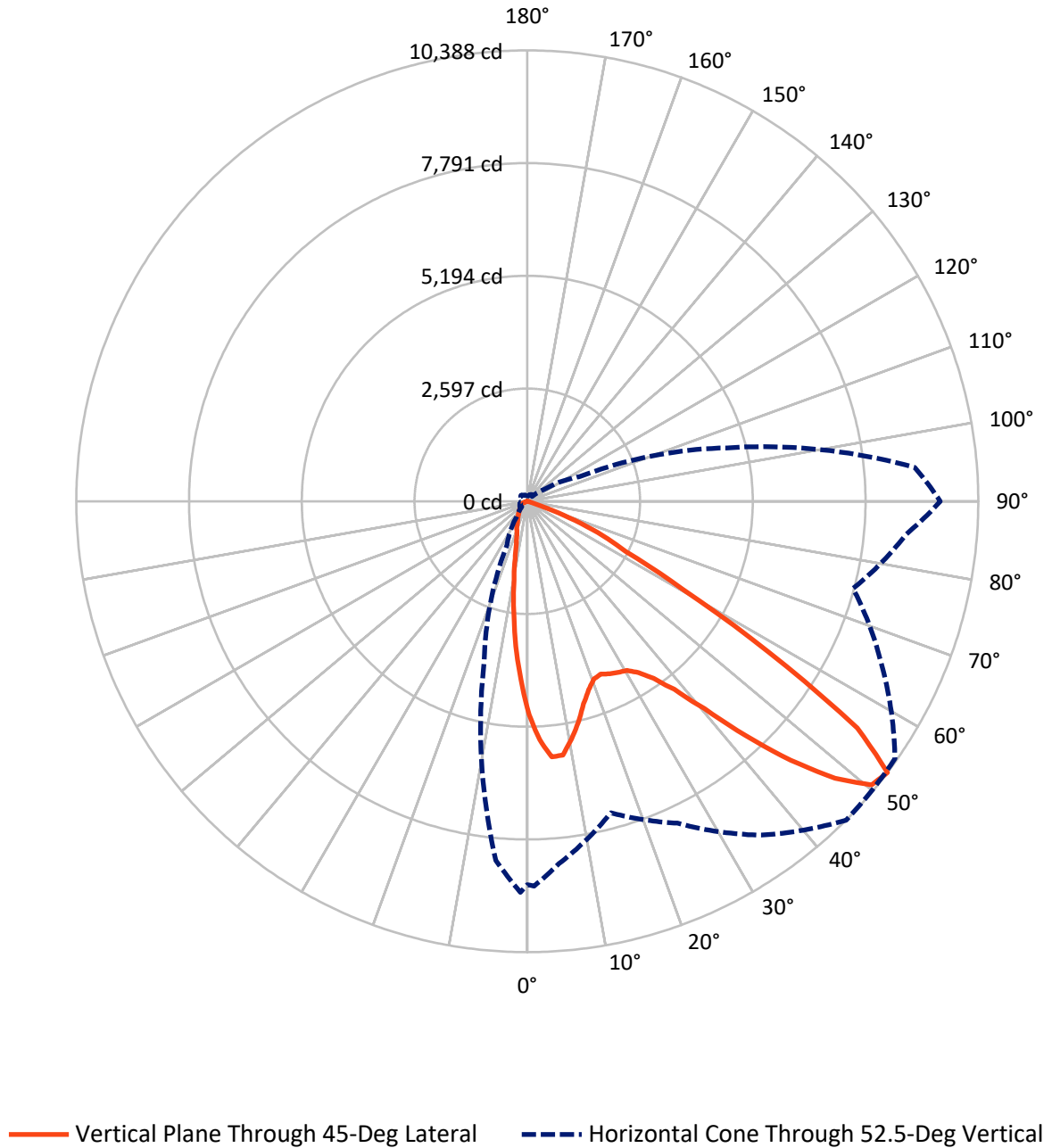
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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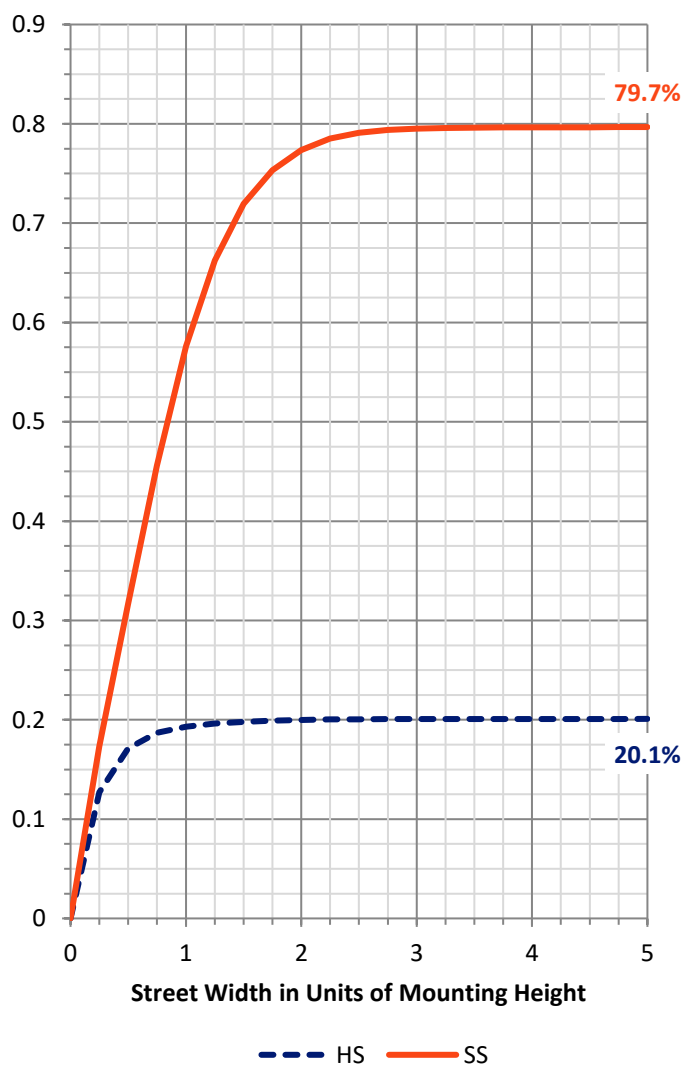
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1969.2	0.0	1969.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7733.8	0.0	7733.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	9703.0	0.0	9703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.8	3.7
10°-20°	707.9	7.3
20°-30°	1077.3	11.1
30°-40°	1610.2	16.6
40°-50°	2293.0	23.6
50°-60°	2464.9	25.4
60°-70°	1092.3	11.3
70°-80°	88.4	0.9
80°-90°	10.3	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°	9703.0	100.0
0°-180°	9703.0	100.0

Coefficient of Utilization



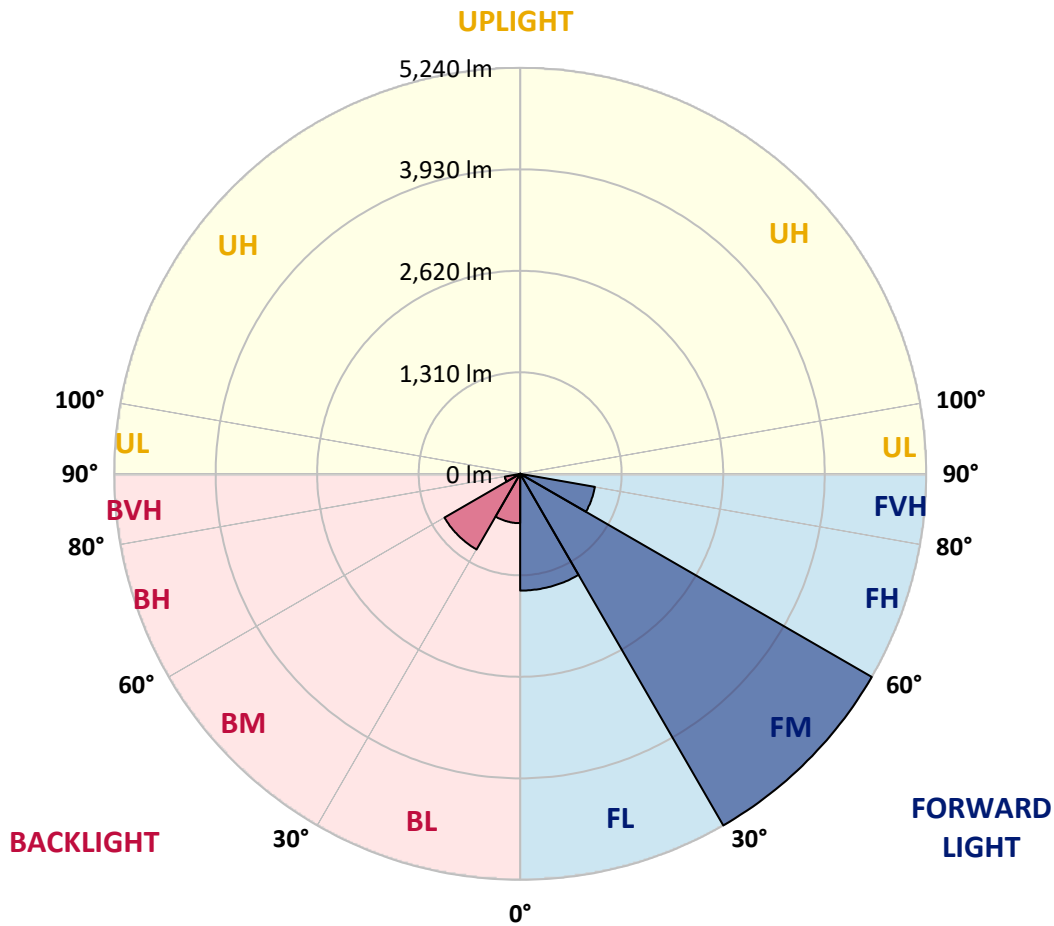
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.1	15.5			
FM (30°-60°)	5239.9	54.0			
FH (60°-80°)	979.1	10.1			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	636.9	6.6	B2/1000		
BM (30°-60°)	1128.1	11.6	B2/2500		
BH (60°-80°)	201.5	2.1	B1/500		G1/500
BVH (80°-90°)	2.7	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°	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9
2.5°	5206.1	5221.4	5305.4	5410.3	5465.7	5591.6	5503.8	5526.7	5479.0	5311.1	5179.4
5°	5047.7	5045.8	5152.7	5412.2	5658.4	5908.4	5916.1	5782.5	5547.7	5290.1	4921.8
7.5°	4570.6	4645.1	4755.7	5169.9	5626.0	5813.0	5902.7	5746.2	5385.5	5017.2	4618.3
10°	4209.9	4248.1	4435.1	4935.1	5269.1	5519.1	5574.5	5484.8	5208.0	4748.1	4301.5
12.5°	4001.9	4021.0	4240.5	4660.3	5013.4	5198.5	5225.2	5267.2	5068.7	4637.4	4101.2
15°	4003.8	4019.1	4314.9	4666.1	4805.4	4755.7	4843.5	4841.6	4927.5	4616.4	4269.1
17.5°	4292.0	4309.2	4576.4	4750.0	4689.0	4572.5	4566.8	4654.6	4835.9	4877.9	4522.9
20°	4788.2	4828.3	5024.8	5015.3	4671.8	4437.0	4372.2	4439.0	4860.7	5099.3	5034.4
22.5°	5456.1	5511.5	5648.9	5385.5	4750.0	4345.4	4324.4	4454.2	5024.8	5593.5	5614.5
25°	6230.9	6324.5	6391.3	6053.5	5028.7	4503.8	4404.6	4627.9	5246.2	6129.8	6353.1
27.5°	6744.3	6841.6	6826.4	6343.5	5215.7	4545.8	4461.9	4669.9	5439.0	6257.7	6738.6
30°	7145.1	7204.2	7311.1	6500.0	5402.7	4664.1	4521.0	4847.4	5501.9	6479.0	7204.2
32.5°	7612.6	7652.7	7660.3	6776.8	5690.9	4813.0	4704.2	5068.7	5780.6	6690.9	7616.5
35°	8084.0	8143.2	8019.1	7118.4	5868.4	5089.7	5009.6	5452.3	6003.8	6910.3	8070.7
37.5°	8595.5	8626.0	8339.7	7259.6	6122.2	5540.1	5496.2	5866.4	6391.3	7307.3	8574.5
40°	9024.9	9053.5	8681.3	7433.2	6389.3	6169.9	6282.5	6656.5	6918.0	7564.9	8826.4
42.5°	9263.4	9330.2	8795.8	7337.8	6925.6	6883.6	7383.6	7515.3	7528.7	7637.4	9051.6
45°	9328.3	9297.8	8606.9	7416.1	7395.1	8057.3	8511.5	8685.2	8135.5	7771.0	9108.8
47.5°	9028.7	9068.7	8328.3	7347.4	8011.5	8946.6	9534.4	9856.9	8587.8	7654.6	8967.6
50°	8786.3	8734.8	8238.6	7297.7	8177.5	9366.5	10273.0	10345.5	9003.9	7797.7	8813.0
52.5°	8834.0	8866.5	8381.7	7429.4	8181.3	9391.3	10387.5	10337.8	9017.2	7765.3	8757.7
55°	8935.2	8792.0	8320.7	7139.3	7633.6	8698.5	9219.5	9143.2	8322.6	7419.9	8622.2
57.5°	7710.0	7931.3	7650.8	6374.1	6265.3	6553.5	6543.9	6778.7	6208.0	6385.5	7849.3
60°	6257.7	6295.8	6400.8	5452.3	4335.9	4236.7	4099.3	3950.4	4177.5	5460.0	7139.3
62.5°	5503.8	5458.0	5832.1	4959.9	3061.1	2563.0	2540.1	2631.7	3223.3	5208.0	6696.6
65°	4000.0	4057.3	4328.3	3849.3	2297.7	1956.1	1921.8	2192.8	2608.8	4173.7	5110.7
67.5°	2442.8	2553.4	2578.3	2374.1	1559.2	1238.6	1188.9	1435.1	1883.6	2700.4	2996.2
70°	1127.9	1261.5	1387.4	1295.8	902.7	509.5	480.9	603.1	950.4	1553.4	1589.7
72.5°	341.6	343.5	480.9	501.9	292.0	114.5	101.1	133.6	322.5	513.4	540.1
75°	24.8	26.7	64.9	74.4	55.3	28.6	30.5	36.3	68.7	114.5	85.9
77.5°	1.9	1.9	1.9	9.5	17.2	19.1	24.8	28.6	36.3	42.0	38.2
80°	1.9	0.0	1.9	7.6	13.4	19.1	22.9	26.7	28.6	32.4	28.6
82.5°	0.0	0.0	0.0	5.7	13.4	19.1	21.0	28.6	32.4	38.2	32.4
85°	0.0	0.0	0.0	5.7	13.4	21.0	19.1	9.5	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°	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9
2.5°	5202.3	5127.9	4958.0	4872.2	4669.9	4641.2	4442.8	4410.3	4343.5	4307.3	4219.5
5°	4759.6	4669.9	4393.2	4160.3	3889.3	3700.4	3555.4	3423.7	3347.3	3276.7	3309.2
7.5°	4398.9	4137.4	3830.2	3440.9	3127.9	2925.6	2704.2	2522.9	2416.0	2343.5	2360.7
10°	4021.0	3851.2	3423.7	2986.7	2608.8	2465.7	2292.0	2152.7	2001.9	1872.1	1811.1
12.5°	3902.7	3650.8	3114.5	2669.9	2383.6	2244.3	2045.8	1885.5	1692.8	1534.4	1479.0
15°	3923.7	3681.3	3030.5	2555.4	2217.6	1977.1	1740.5	1542.0	1330.2	1219.5	1162.2
17.5°	4265.3	3845.4	3085.9	2435.1	1986.7	1652.7	1360.7	1108.8	950.4	835.9	811.1
20°	4685.1	4200.4	3204.2	2347.3	1797.7	1314.9	994.3	776.7	645.0	626.0	620.2
22.5°	5299.6	4780.6	3458.0	2288.2	1566.8	1024.8	681.3	564.9	528.6	524.8	526.7
25°	6158.4	5507.7	3734.8	2238.6	1393.1	790.1	557.3	479.0	467.6	461.8	471.4
27.5°	6530.6	5946.6	3881.7	2131.7	1234.7	711.8	549.6	475.2	442.8	433.2	438.9
30°	6990.5	6238.6	4112.6	1948.5	1001.9	585.9	513.4	517.2	501.9	454.2	438.9
32.5°	7601.2	6603.1	4229.0	1818.7	895.0	484.7	376.0	345.4	385.5	393.1	406.5
35°	7992.4	6973.3	4288.2	1742.4	839.7	414.1	318.7	290.1	280.5	282.4	290.1
37.5°	8719.5	7473.3	4362.6	1662.2	797.7	360.7	288.2	261.5	248.1	248.1	255.7
40°	9154.6	7870.3	4463.8	1618.3	755.7	328.2	261.5	238.6	227.1	227.1	230.9
42.5°	9263.4	8066.8	4429.4	1603.1	708.0	320.6	238.6	221.4	208.0	206.1	204.2
45°	9458.1	8366.5	4435.1	1585.9	658.4	292.0	225.2	206.1	187.0	185.1	183.2
47.5°	9671.8	8582.1	4446.6	1519.1	610.7	244.3	234.7	190.8	167.9	164.1	164.1
50°	9488.6	8753.9	4545.8	1452.3	549.6	198.5	230.9	179.4	148.9	143.1	145.0
52.5°	9511.5	8956.2	4755.7	1358.8	473.3	158.4	187.0	169.8	135.5	126.0	127.9
55°	9145.1	8742.4	4784.4	1259.5	370.2	122.1	143.1	148.9	114.5	110.7	110.7
57.5°	7872.2	7402.7	4221.4	1021.0	244.3	101.1	103.1	129.8	99.2	95.4	97.3
60°	6736.7	5942.8	3397.0	673.7	152.7	80.2	74.4	131.7	87.8	85.9	91.6
62.5°	6141.3	4883.6	2576.3	417.9	105.0	61.1	51.5	106.9	76.3	76.3	84.0
65°	4437.0	3280.6	1498.1	219.5	74.4	47.7	38.2	61.1	63.0	64.9	68.7
67.5°	2748.1	1656.5	631.7	106.9	49.6	32.4	24.8	38.2	42.0	42.0	45.8
70°	1356.9	660.3	209.9	61.1	38.2	26.7	17.2	21.0	21.0	19.1	21.0
72.5°	419.8	198.5	53.4	38.2	26.7	17.2	9.5	7.6	3.8	0.0	1.9
75°	47.7	38.2	34.4	26.7	17.2	7.6	1.9	0.0	0.0	0.0	0.0
77.5°	28.6	32.4	32.4	26.7	17.2	5.7	0.0	0.0	0.0	0.0	0.0
80°	22.9	24.8	26.7	24.8	15.3	7.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.6	32.4	36.3	32.4	21.0	9.5	3.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.7	1.9	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°	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9
2.5°	4183.2	4141.2	4200.4	4112.6	4110.7	4112.6	4087.8	4064.9	4101.2	4198.5	4208.0
5°	3192.8	3282.5	3311.1	3404.6	3353.1	3276.7	3292.0	3240.5	3366.4	3421.8	3377.9
7.5°	2324.4	2318.7	2511.5	2522.9	2547.7	2549.6	2545.8	2444.7	2341.6	2364.5	2433.2
10°	1803.4	1706.1	1799.6	1790.1	1851.2	1834.0	1858.8	1750.0	1786.3	1786.3	1830.2
12.5°	1469.5	1366.4	1349.2	1324.4	1349.2	1358.8	1368.3	1347.3	1408.4	1437.0	1467.6
15°	1122.1	1064.9	1049.6	1001.9	1009.5	1036.3	1059.2	1068.7	1049.6	1093.5	1097.3
17.5°	814.9	813.0	822.5	820.6	813.0	807.3	805.3	780.5	772.9	776.7	792.0
20°	618.3	633.6	666.0	698.5	715.7	694.7	666.0	624.0	606.9	610.7	612.6
22.5°	528.6	551.5	595.4	631.7	648.9	610.7	559.2	522.9	515.3	513.4	511.5
25°	479.0	505.7	538.2	549.6	547.7	524.8	486.6	471.4	467.6	463.7	446.6
27.5°	452.3	461.8	467.6	480.9	486.6	471.4	461.8	438.9	435.1	435.1	423.7
30°	437.0	431.3	438.9	429.4	437.0	425.6	427.5	427.5	417.9	421.8	421.8
32.5°	406.5	408.4	408.4	389.3	395.0	381.7	395.0	406.5	408.4	410.3	425.6
35°	297.7	332.1	349.2	349.2	355.0	345.4	343.5	330.2	313.0	295.8	288.2
37.5°	261.5	274.8	297.7	311.1	320.6	313.0	295.8	274.8	265.3	257.6	250.0
40°	232.8	244.3	259.5	274.8	293.9	284.4	257.6	248.1	236.6	236.6	229.0
42.5°	209.9	215.6	225.2	248.1	269.1	250.0	230.9	223.3	217.6	215.6	213.7
45°	188.9	190.8	200.4	219.5	244.3	225.2	206.1	196.6	198.5	200.4	198.5
47.5°	169.8	173.7	179.4	202.3	217.6	208.0	187.0	181.3	181.3	181.3	183.2
50°	146.9	156.5	167.9	187.0	198.5	192.7	175.6	167.9	164.1	164.1	166.0
52.5°	131.7	139.3	154.6	177.5	192.7	183.2	166.0	154.6	146.9	145.0	148.9
55°	114.5	127.9	152.7	169.8	190.8	181.3	162.2	148.9	135.5	133.6	133.6
57.5°	103.1	124.0	146.9	167.9	185.1	177.5	162.2	145.0	127.9	126.0	126.0
60°	97.3	120.2	143.1	162.2	185.1	173.7	160.3	141.2	122.1	122.1	120.2
62.5°	91.6	112.6	135.5	154.6	177.5	167.9	154.6	135.5	116.4	116.4	112.6
65°	76.3	97.3	112.6	129.8	154.6	145.0	131.7	118.3	103.1	99.2	101.1
67.5°	53.4	66.8	82.1	99.2	114.5	110.7	105.0	95.4	82.1	80.2	78.2
70°	26.7	36.3	49.6	66.8	80.2	76.3	72.5	64.9	57.3	55.3	55.3
72.5°	3.8	11.5	21.0	30.5	42.0	43.9	42.0	40.1	38.2	36.3	38.2
75°	0.0	0.0	0.0	7.6	17.2	21.0	24.8	28.6	28.6	24.8	30.5
77.5°	0.0	0.0	0.0	0.0	1.9	9.5	19.1	24.8	30.5	26.7	36.3
80°	0.0	0.0	0.0	0.0	1.9	11.5	19.1	26.7	30.5	26.7	38.2
82.5°	0.0	0.0	0.0	0.0	1.9	13.4	19.1	24.8	28.6	26.7	34.4
85°	0.0	0.0	0.0	0.0	5.7	11.5	7.6	3.8	1.9	1.9	5.7
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°	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9	4919.9
2.5°	4261.5	4397.0	4542.0	4597.4	4769.1	4898.9	4986.7	5175.6	5204.2	5206.1
5°	3423.7	3492.4	3740.5	3856.9	4112.6	4311.1	4522.9	4828.3	5032.5	5047.7
7.5°	2433.2	2624.1	2729.0	3032.5	3347.3	3658.4	3973.3	4328.3	4564.9	4570.6
10°	1958.0	2082.1	2269.1	2496.2	2761.5	3078.3	3498.1	3910.3	4150.8	4209.9
12.5°	1576.3	1793.9	2007.6	2242.4	2444.7	2683.2	3135.5	3685.1	3883.6	4001.9
15°	1213.7	1412.2	1664.1	1938.9	2167.9	2486.7	3001.9	3629.8	3963.8	4003.8
17.5°	895.0	1072.5	1305.4	1564.9	1908.4	2360.7	3024.8	3910.3	4225.2	4292.0
20°	643.1	746.2	929.4	1230.9	1667.9	2213.8	3047.7	4194.7	4673.7	4788.2
22.5°	509.5	551.5	671.8	938.9	1398.9	2059.2	3209.9	4738.6	5290.1	5456.1
25°	442.8	465.7	522.9	740.5	1229.0	2043.9	3469.5	5391.2	6110.7	6230.9
27.5°	427.5	431.3	480.9	679.4	1137.4	1942.8	3568.7	5855.0	6622.2	6744.3
30°	450.4	511.5	515.3	574.4	967.6	1742.4	3620.2	6303.5	7055.4	7145.1
32.5°	389.3	370.2	383.6	444.7	851.1	1626.0	3717.6	6694.7	7549.7	7612.6
35°	271.0	284.4	314.9	385.5	744.3	1503.8	3742.4	7126.0	8019.1	8084.0
37.5°	250.0	257.6	282.4	328.2	654.6	1435.1	3708.0	7440.9	8505.8	8595.5
40°	232.8	242.4	255.7	297.7	587.8	1358.8	3660.3	7725.2	8803.5	9024.9
42.5°	219.5	227.1	238.6	284.4	530.5	1282.4	3593.5	8126.0	9070.7	9263.4
45°	204.2	215.6	229.0	276.7	498.1	1230.9	3543.9	8101.2	9225.2	9328.3
47.5°	188.9	208.0	223.3	257.6	488.6	1206.1	3564.9	8007.7	9099.3	9028.7
50°	173.7	198.5	225.2	213.7	465.7	1156.5	3589.7	8135.5	8799.7	8786.3
52.5°	160.3	188.9	209.9	175.6	414.1	1108.8	3830.2	8303.5	9011.5	8834.0
55°	141.2	169.8	167.9	141.2	335.9	1072.5	4019.1	8307.3	8868.4	8935.2
57.5°	127.9	150.8	131.7	118.3	248.1	897.0	3711.9	6965.7	7591.6	7710.0
60°	118.3	146.9	99.2	93.5	162.2	646.9	3240.5	5395.1	6034.4	6257.7
62.5°	108.8	139.3	78.2	76.3	112.6	459.9	2664.1	4515.3	5200.4	5503.8
65°	95.4	99.2	63.0	59.2	80.2	248.1	1622.1	3108.8	3887.4	4000.0
67.5°	78.2	76.3	51.5	47.7	53.4	120.2	715.7	1557.3	2253.8	2442.8
70°	63.0	63.0	43.9	38.2	38.2	55.3	187.0	620.2	1019.1	1127.9
72.5°	45.8	47.7	34.4	30.5	28.6	26.7	30.5	124.0	267.2	341.6
75°	40.1	42.0	34.4	26.7	21.0	17.2	13.4	11.5	15.3	24.8
77.5°	43.9	43.9	36.3	24.8	19.1	13.4	7.6	3.8	3.8	1.9
80°	55.3	57.3	47.7	32.4	22.9	15.3	9.5	3.8	1.9	1.9
82.5°	59.2	64.9	53.4	40.1	28.6	17.2	9.5	1.9	0.0	0.0
85°	15.3	24.8	42.0	36.3	28.6	17.2	9.5	1.9	0.0	0.0
87.5°	0.0	1.9	5.7	5.7	7.6	7.6	5.7	1.9	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

(END OF REPORT)