

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: P528393

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
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-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT 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

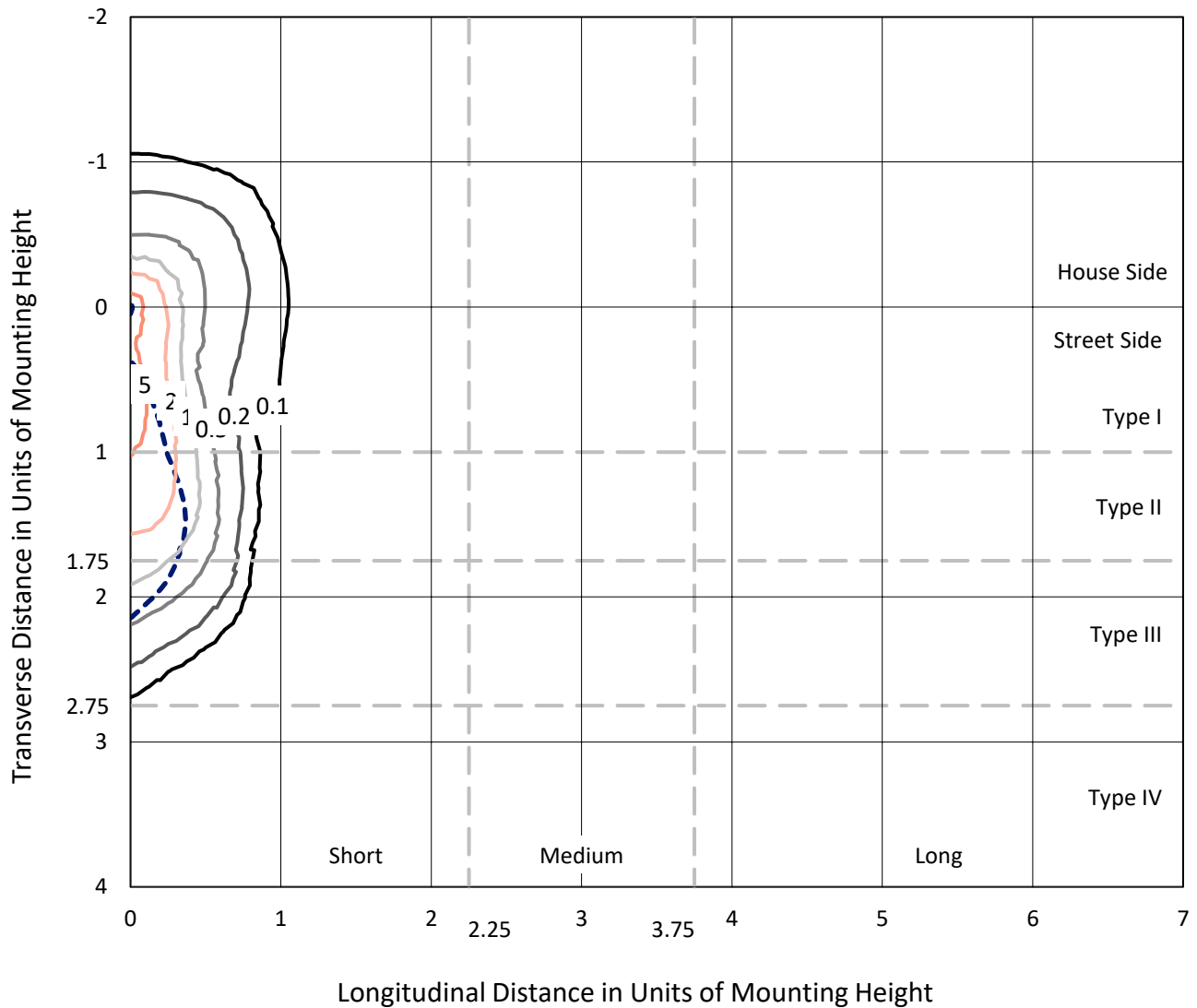
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

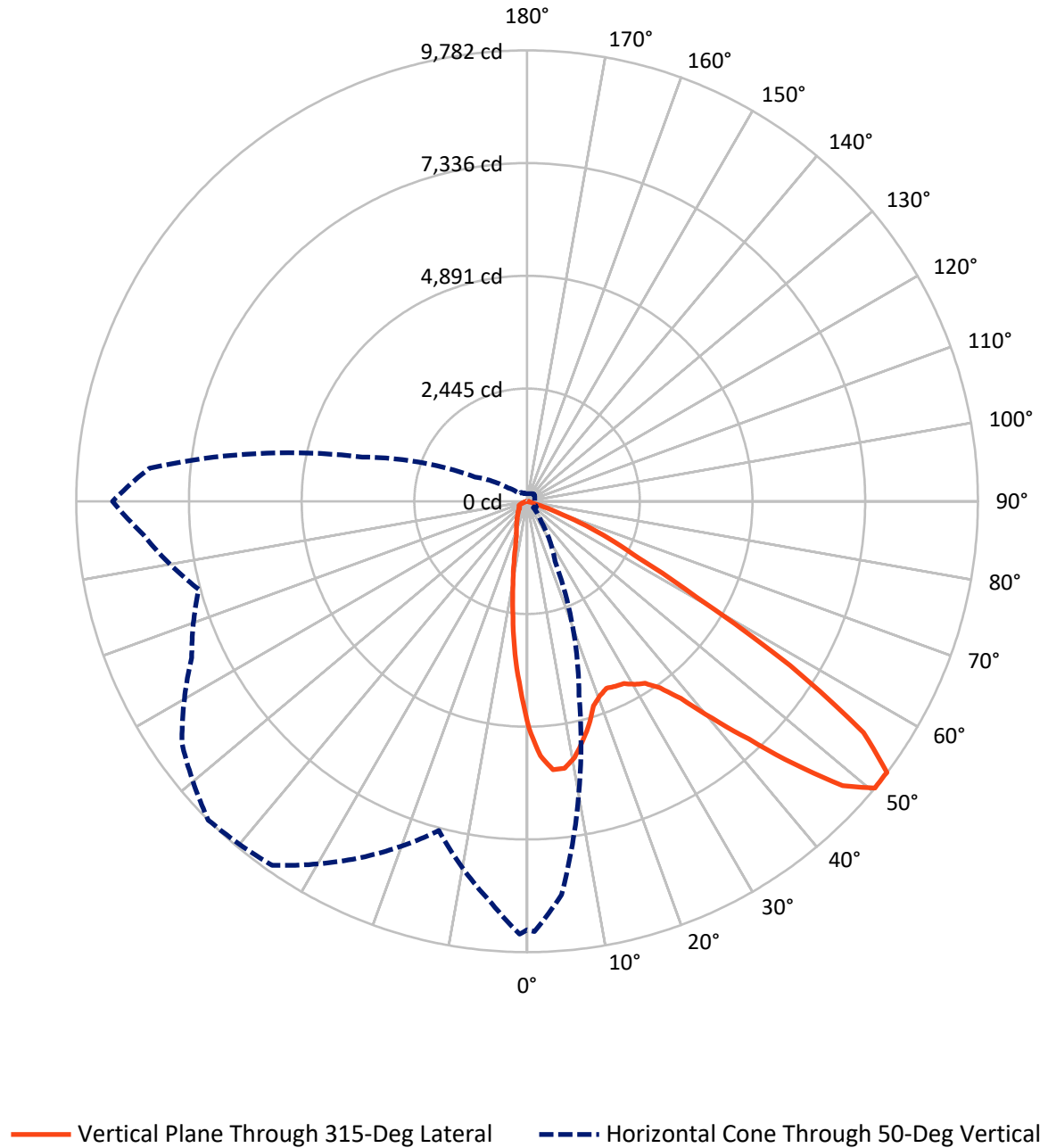
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	1943.5	0.0	1943.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	7759.5	0.0	7759.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	9703.0	0.0	9703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.7	3.7
10°-20°	712.8	7.3
20°-30°	1070.9	11.0
30°-40°	1607.4	16.6
40°-50°	2259.0	23.3
50°-60°	2436.8	25.1
60°-70°	1131.4	11.7
70°-80°	106.5	1.1
80°-90°	19.6	0.2
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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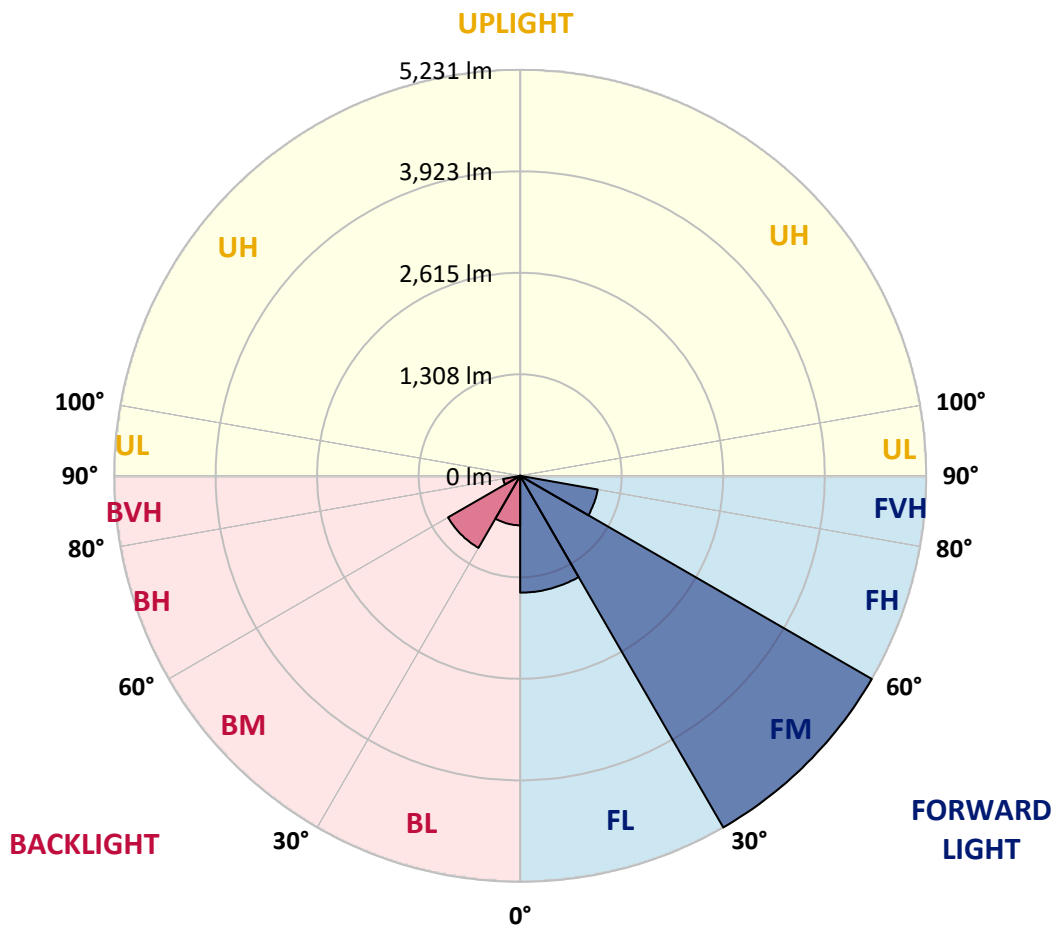
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.3	15.5			
FM (30°-60°)	5230.6	53.9			
FH (60°-80°)	1014.7	10.5			G1/1800
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	637.0	6.6	B2/1000		
BM (30°-60°)	1072.5	11.1	B2/2500		
BH (60°-80°)	223.2	2.3	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
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°	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6
2.5°	5115.1	5036.2	4936.0	4853.3	4730.1	4481.7	4414.3	4333.5	4266.1	4175.6	4048.6
5°	4651.1	4626.1	4579.9	4268.0	4042.8	3742.5	3496.0	3392.1	3255.4	3143.7	3062.9
7.5°	4296.9	4196.8	4050.5	3736.7	3376.7	3055.2	2781.8	2622.0	2441.1	2379.5	2269.7
10°	3917.6	3940.8	3725.1	3284.3	2849.2	2589.3	2419.9	2265.9	2102.2	1994.4	1838.5
12.5°	3796.4	3721.3	3555.7	3010.9	2639.4	2396.8	2190.8	2000.2	1827.0	1653.7	1503.5
15°	3875.3	3759.8	3528.8	2953.2	2477.6	2175.4	1917.4	1659.5	1499.7	1278.3	1122.4
17.5°	4158.3	4065.9	3755.9	3014.8	2394.9	1963.6	1580.5	1314.9	1070.4	870.2	791.2
20°	4629.9	4499.0	4110.2	3093.7	2271.7	1707.6	1282.1	954.9	723.9	639.1	594.9
22.5°	5092.0	5020.8	4529.8	3245.8	2161.9	1480.4	962.6	643.0	541.0	525.6	496.7
25°	5971.8	5758.1	5170.9	3521.1	2077.2	1266.7	725.8	517.9	458.2	446.6	450.5
27.5°	6495.4	6316.4	5763.9	3704.0	1982.9	1103.1	614.1	475.5	435.1	410.1	400.4
30°	6997.9	6789.9	6058.4	3811.8	1780.7	929.8	544.8	456.3	446.6	410.1	398.5
32.5°	7384.8	7180.8	6483.9	3973.5	1698.0	818.2	448.6	356.1	331.1	327.3	361.9
35°	7977.8	7760.2	6847.7	4062.0	1634.4	760.4	388.9	317.6	288.8	277.2	279.1
37.5°	8530.3	8382.0	7184.6	4096.7	1567.1	743.1	348.4	284.9	259.9	252.2	250.3
40°	8992.3	8661.2	7504.2	4133.3	1538.2	710.4	323.4	259.9	242.6	231.0	231.0
42.5°	9204.1	8867.2	7862.2	4112.1	1530.5	658.4	323.4	238.7	225.2	213.7	211.8
45°	9157.9	9021.2	8022.0	4102.5	1530.5	606.4	294.5	232.9	213.7	198.3	194.4
47.5°	9277.2	9098.2	8222.2	4142.9	1499.7	569.8	248.3	244.5	202.1	182.9	179.0
50°	9298.4	9333.1	8570.7	4352.7	1432.3	523.6	194.4	240.6	194.4	165.6	161.7
52°	9437.0	9221.4	8676.6	4464.4	1361.1	489.0	163.6	206.0	186.7	154.0	150.2
52.5°	9246.4	9387.0	8701.6	4504.8	1368.8	465.9	157.9	202.1	182.9	154.0	144.4
55°	9032.7	9167.5	8599.6	4591.4	1255.2	365.8	123.2	146.3	165.6	134.8	129.0
57.5°	7850.7	7987.4	7473.4	4204.5	1022.2	258.0	102.0	109.7	146.3	125.1	119.4
60°	6978.6	6880.4	6272.1	3507.6	725.8	144.4	80.9	84.7	159.8	115.5	113.6
62.5°	6378.0	6168.1	5242.1	2708.7	442.8	96.3	63.5	65.5	123.2	107.8	107.8
65°	4718.5	4483.6	3482.6	1638.3	217.5	67.4	48.1	52.0	77.0	92.4	92.4
67.5°	2693.3	2602.8	1682.6	739.3	90.5	42.4	36.6	40.4	59.7	75.1	71.2
70°	1237.9	1110.8	646.8	155.9	42.4	28.9	28.9	32.7	48.1	55.8	52.0
72.5°	361.9	342.7	157.9	25.0	17.3	17.3	19.3	25.0	36.6	42.4	38.5
75°	27.0	17.3	11.6	7.7	7.7	11.6	15.4	25.0	36.6	40.4	32.7
77.5°	1.9	3.9	1.9	1.9	5.8	11.6	17.3	30.8	48.1	50.1	36.6
80°	1.9	1.9	0.0	1.9	5.8	11.6	19.3	34.7	53.9	57.8	30.8
82.5°	0.0	0.0	0.0	1.9	7.7	15.4	23.1	36.6	50.1	61.6	32.7
85°	0.0	0.0	0.0	1.9	11.6	21.2	27.0	9.6	5.8	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°	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6
2.5°	4139.0	4089.0	4069.7	4087.1	4081.3	4075.5	4181.4	4158.3	4154.4	4189.1	4181.4
5°	3107.2	3018.6	3261.2	3163.0	3265.0	3326.6	3338.2	3344.0	3415.2	3340.1	3438.3
7.5°	2213.9	2237.0	2235.1	2300.5	2418.0	2521.9	2583.5	2535.4	2531.6	2521.9	2479.6
10°	1769.2	1728.8	1721.1	1705.7	1742.2	1830.8	1905.9	1846.2	1803.9	1861.6	1844.3
12.5°	1445.8	1389.9	1359.1	1297.5	1299.5	1359.1	1359.1	1359.1	1401.5	1434.2	1459.3
15°	1108.9	1062.7	1062.7	1001.1	987.6	989.5	1020.3	1024.2	1091.6	1110.8	1120.4
17.5°	775.8	750.8	779.7	804.7	789.3	793.2	804.7	808.6	818.2	810.5	829.7
20°	596.8	592.9	600.6	644.9	677.6	696.9	683.4	664.2	652.6	625.7	625.7
22.5°	506.3	514.0	527.5	564.1	606.4	618.0	602.6	558.3	523.6	519.8	521.7
25°	450.5	458.2	479.4	502.5	525.6	544.8	529.4	496.7	477.4	460.1	460.1
27.5°	415.8	419.7	431.2	448.6	467.8	483.2	477.4	460.1	438.9	431.2	413.9
30°	388.9	394.7	408.1	412.0	429.3	437.0	427.4	423.5	410.1	400.4	394.7
32.5°	375.4	373.5	383.1	387.0	388.9	394.7	383.1	388.9	387.0	371.6	365.8
35°	283.0	298.4	323.4	344.6	350.4	358.1	356.1	348.4	327.3	309.9	288.8
37.5°	254.1	263.7	277.2	294.5	317.6	327.3	323.4	304.2	279.1	267.6	263.7
40°	234.9	240.6	252.2	263.7	286.8	304.2	290.7	273.4	254.1	244.5	238.7
42.5°	217.5	219.5	225.2	236.8	254.1	281.1	258.0	234.9	227.2	221.4	217.5
45°	198.3	198.3	206.0	211.8	231.0	256.0	232.9	211.8	207.9	204.1	202.1
47.5°	182.9	184.8	188.7	196.4	211.8	229.1	213.7	196.4	186.7	184.8	181.0
50°	163.6	165.6	173.3	181.0	200.2	209.8	200.2	181.0	171.3	165.6	165.6
52°	148.2	154.0	161.7	177.1	190.6	206.0	194.4	173.3	161.7	155.9	152.1
52.5°	146.3	150.2	157.9	175.2	190.6	204.1	192.5	171.3	157.9	154.0	150.2
55°	130.9	136.7	150.2	171.3	188.7	204.1	188.7	169.4	150.2	140.5	136.7
57.5°	125.1	129.0	146.3	173.3	186.7	204.1	188.7	169.4	150.2	132.8	129.0
60°	119.4	127.1	146.3	167.5	184.8	206.0	190.6	167.5	146.3	125.1	125.1
62.5°	113.6	119.4	144.4	163.6	177.1	198.3	182.9	163.6	140.5	119.4	117.4
65°	98.2	107.8	127.1	136.7	152.1	171.3	155.9	142.5	123.2	105.9	104.0
67.5°	75.1	78.9	94.3	105.9	115.5	132.8	125.1	107.8	94.3	80.9	80.9
70°	52.0	55.8	67.4	73.2	82.8	92.4	86.6	73.2	63.5	55.8	53.9
72.5°	36.6	38.5	42.4	46.2	50.1	53.9	52.0	42.4	36.6	34.7	32.7
75°	28.9	32.7	34.7	32.7	30.8	28.9	28.9	25.0	21.2	19.3	19.3
77.5°	28.9	30.8	28.9	25.0	21.2	19.3	17.3	15.4	11.6	9.6	11.6
80°	25.0	25.0	25.0	21.2	19.3	17.3	15.4	13.5	11.6	9.6	9.6
82.5°	27.0	27.0	25.0	21.2	21.2	17.3	17.3	15.4	13.5	9.6	9.6
85°	0.0	0.0	0.0	3.9	9.6	17.3	17.3	15.4	13.5	11.6	11.6
87.5°	0.0	0.0	0.0	0.0	1.9	3.9	7.7	9.6	11.6	11.6	11.6
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°	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6
2.5°	4250.7	4323.9	4462.5	4601.1	4685.8	4785.9	4966.8	5063.1	5188.2	5249.8	5371.1
5°	3424.8	3598.1	3659.7	3817.5	3987.0	4156.4	4425.9	4722.4	4968.8	5138.2	5357.6
7.5°	2498.8	2539.3	2778.0	2883.9	3161.1	3469.1	3836.8	4210.3	4522.1	4799.4	4966.8
10°	1873.2	2021.4	2171.6	2373.7	2597.0	2914.7	3267.0	3678.9	4083.2	4360.4	4572.2
12.5°	1505.5	1622.9	1823.1	2040.6	2315.9	2525.8	2880.0	3288.1	3811.8	4083.2	4362.4
15°	1139.7	1289.8	1517.0	1742.2	2032.9	2254.3	2612.4	3126.4	3800.2	4173.7	4414.3
17.5°	845.1	947.2	1151.2	1403.4	1699.9	2011.8	2495.0	3109.1	3929.2	4373.9	4622.2
20°	646.8	681.5	810.5	1035.7	1357.2	1765.3	2304.4	3184.2	4310.4	4861.0	5113.2
22.5°	523.6	539.0	589.1	745.0	1056.9	1549.7	2213.9	3236.2	4739.7	5444.3	5781.2
25°	456.3	452.4	485.1	552.5	825.9	1347.6	2098.4	3432.5	5265.2	6129.6	6431.9
27.5°	415.8	415.8	431.2	479.4	685.3	1216.7	2025.2	3573.0	5794.7	6732.2	6895.8
30°	394.7	398.5	442.8	458.2	569.8	1060.7	1904.0	3715.5	6301.0	7117.2	7342.5
32.5°	365.8	350.4	340.7	379.3	479.4	920.2	1782.7	3775.2	6711.0	7588.9	7781.4
35°	281.1	273.4	284.9	313.8	412.0	800.9	1647.9	3842.6	7182.7	8135.6	8174.1
37.5°	254.1	252.2	259.9	284.9	346.5	696.9	1551.7	3825.2	7542.7	8588.0	8484.1
40°	234.9	234.9	240.6	261.8	309.9	623.7	1451.6	3809.8	7891.1	9096.3	8792.1
42.5°	219.5	219.5	229.1	242.6	294.5	575.6	1376.5	3788.7	8183.7	9408.1	8973.1
45°	198.3	204.1	219.5	232.9	298.4	542.9	1320.6	3707.8	8283.9	9404.3	8886.4
47.5°	182.9	190.6	206.0	225.2	269.5	533.3	1282.1	3636.6	8249.2	9173.3	8615.0
50°	165.6	175.2	196.4	229.1	229.1	514.0	1241.7	3700.1	8224.2	8994.2	8355.1
52°	154.0	161.7	188.7	223.3	200.2	473.6	1216.7	3823.3	8326.2	8971.1	8239.6
52.5°	152.1	157.9	182.9	219.5	190.6	465.9	1199.4	3852.2	8358.9	8913.4	8318.5
55°	134.8	142.5	167.5	171.3	155.9	383.1	1143.5	3917.6	8197.2	8799.8	8243.4
57.5°	127.1	130.9	148.2	140.5	134.8	288.8	983.7	3815.6	7280.9	7816.0	7669.7
60°	117.4	121.3	138.6	109.7	113.6	202.1	739.3	3313.2	5846.6	6512.7	6776.5
62.5°	113.6	111.7	130.9	88.6	96.3	146.3	521.7	2693.3	4504.8	5361.5	5817.8
65°	100.1	98.2	94.3	75.1	82.8	113.6	311.9	1757.6	3174.5	4056.3	4306.5
67.5°	77.0	80.9	69.3	59.7	69.3	88.6	173.3	787.4	1665.2	2433.4	2635.5
70°	53.9	57.8	55.8	52.0	61.6	73.2	100.1	269.5	689.2	1278.3	1409.2
72.5°	32.7	40.4	42.4	44.3	53.9	63.5	71.2	86.6	182.9	452.4	562.1
75°	19.3	27.0	32.7	38.5	44.3	53.9	59.7	61.6	63.5	84.7	136.7
77.5°	13.5	19.3	28.9	36.6	44.3	53.9	63.5	67.4	63.5	59.7	63.5
80°	11.6	19.3	27.0	34.7	46.2	55.8	63.5	63.5	61.6	53.9	57.8
82.5°	11.6	19.3	28.9	36.6	44.3	53.9	61.6	63.5	57.8	53.9	55.8
85°	13.5	21.2	30.8	38.5	48.1	44.3	40.4	32.7	30.8	25.0	27.0
87.5°	13.5	19.3	19.3	21.2	23.1	23.1	23.1	21.2	17.3	15.4	15.4
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°	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6
2.5°	5376.9	5530.9	5525.1	5529.0	5505.9	5349.9	5274.9	5084.3	5138.2	5115.1
5°	5582.9	5735.0	5865.9	5850.5	5673.4	5461.6	5147.8	4851.3	4770.5	4651.1
7.5°	5376.9	5742.7	5864.0	5846.6	5584.8	5313.4	4812.8	4516.4	4375.8	4296.9
10°	5049.6	5473.2	5623.3	5654.1	5477.0	5065.0	4604.9	4129.4	4054.3	3917.6
12.5°	4862.9	5170.9	5263.3	5346.1	5284.5	4976.5	4447.1	3990.8	3886.8	3796.4
15°	4710.8	4893.7	4932.2	5026.5	5063.1	4897.5	4529.8	4141.0	3884.9	3875.3
17.5°	4851.3	4776.3	4635.7	4664.6	4780.1	4899.5	4743.5	4437.4	4189.1	4158.3
20°	5084.3	4753.2	4435.5	4506.7	4603.0	4968.8	5067.0	4851.3	4708.9	4629.9
22.5°	5351.9	4793.6	4372.0	4406.6	4589.5	5124.7	5590.6	5471.2	5205.6	5092.0
25°	5846.6	4905.2	4422.0	4445.1	4695.4	5342.2	6064.2	6152.7	5994.9	5971.8
27.5°	6329.8	5194.0	4531.8	4479.8	4749.3	5554.0	6351.0	6826.5	6549.3	6495.4
30°	6576.3	5428.9	4695.4	4606.8	4972.6	5683.0	6524.3	7265.5	7022.9	6997.9
32.5°	6953.6	5642.6	4822.5	4708.9	5097.8	5842.8	6847.7	7744.8	7510.0	7384.8
35°	7111.4	5875.5	5101.6	4968.8	5455.8	6066.1	7013.3	8172.2	8099.0	7977.8
37.5°	7415.6	6125.8	5430.8	5423.1	5889.0	6356.8	7311.7	8753.6	8740.1	8530.3
40°	7440.6	6399.1	5950.6	6193.2	6558.9	6863.1	7573.5	8915.3	9134.8	8992.3
42.5°	7479.1	6878.5	6849.6	7049.8	7363.6	7298.2	7583.1	8953.8	9288.8	9204.1
45°	7496.5	7357.9	7764.1	8133.7	8264.6	7868.0	7492.6	8880.6	9369.6	9157.9
47.5°	7357.9	7769.8	8503.3	9217.5	9256.0	8218.4	7454.1	8805.6	9417.8	9277.2
50°	7377.1	8027.8	9142.5	9781.6	9641.1	8528.3	7394.4	8759.4	9392.7	9298.4
52°	7330.9	8033.6	9232.9	9770.1	9671.9	8357.0	7292.4	8582.3	9369.6	9437.0
52.5°	7382.9	7998.9	9138.6	9777.8	9650.7	8441.7	7278.9	8680.4	9383.1	9246.4
55°	7203.9	7587.0	8586.1	8857.5	8838.3	7662.0	6865.0	8355.1	9030.8	9032.7
57.5°	6510.8	6576.3	6734.1	6728.3	6639.8	6023.7	5871.7	7683.2	8050.9	7850.7
60°	5736.9	4814.8	4389.3	4216.0	4117.9	4017.8	5194.0	7028.7	7063.3	6978.6
62.5°	4957.2	3338.2	2772.2	2724.1	2747.2	3112.9	5020.8	6768.8	6560.9	6378.0
65°	4000.4	2433.4	2013.7	1950.2	2175.4	2570.1	4064.0	5190.2	4870.6	4718.5
67.5°	2512.3	1775.0	1361.1	1241.7	1513.2	1769.2	2670.2	3261.2	2903.1	2693.3
70°	1490.1	991.4	616.0	552.5	621.8	943.3	1495.8	1626.7	1345.7	1237.9
72.5°	587.2	363.9	171.3	146.3	152.1	331.1	550.6	537.1	406.2	361.9
75°	157.9	109.7	59.7	48.1	40.4	61.6	88.6	57.8	21.2	27.0
77.5°	73.2	65.5	52.0	40.4	30.8	23.1	11.6	3.9	3.9	1.9
80°	63.5	55.8	48.1	40.4	30.8	19.3	9.6	1.9	1.9	1.9
82.5°	59.7	52.0	44.3	36.6	28.9	19.3	9.6	1.9	0.0	0.0
85°	25.0	32.7	36.6	34.7	30.8	19.3	9.6	1.9	0.0	0.0
87.5°	13.5	11.6	9.6	7.7	5.8	3.9	3.9	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

(END OF REPORT)