

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: P453220

Luminaire Tested: **GALN-SA4B-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453220
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-SA4B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13519 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

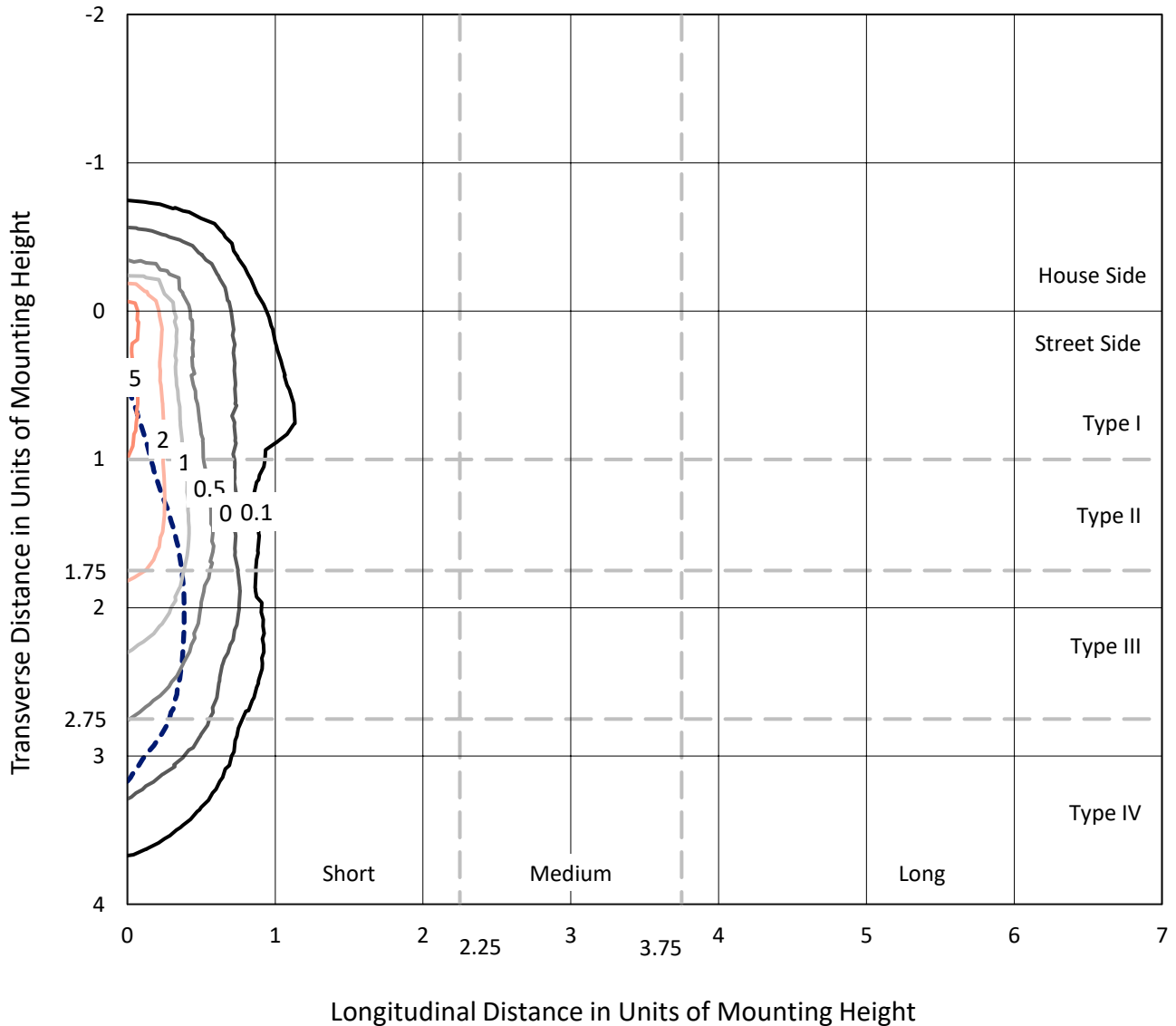
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

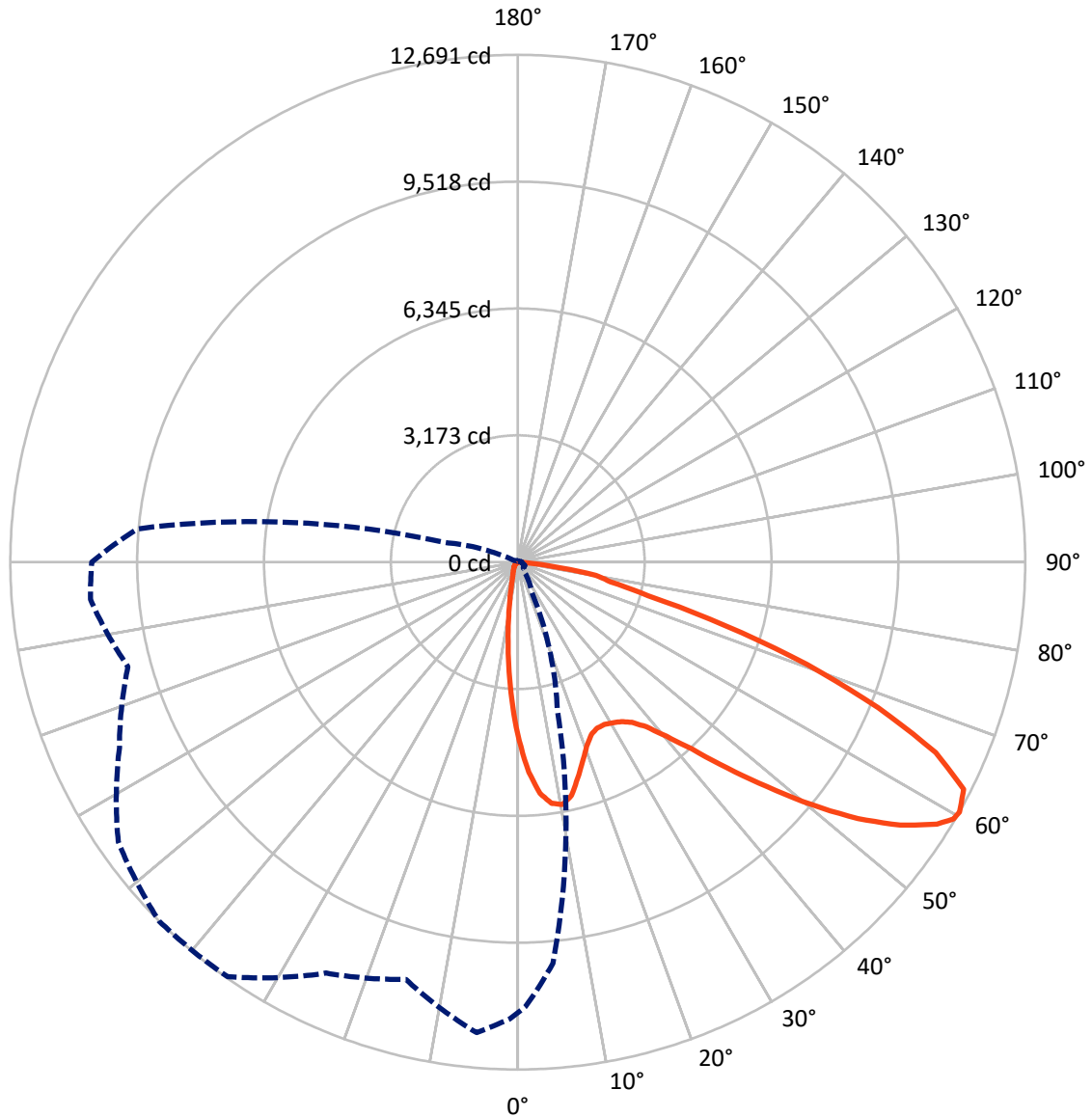
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1667.4	0.0	1667.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	11851.6	0.0	11851.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	13519.0	0.0	13519.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	2.5
10°-20°	660.0	4.9
20°-30°	967.8	7.2
30°-40°	1439.2	10.6
40°-50°	2094.5	15.5
50°-60°	3020.5	22.3
60°-70°	3322.2	24.6
70°-80°	1488.1	11.0
80°-90°	194.4	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°	13519.0	100.0
0°-180°	13519.0	100.0



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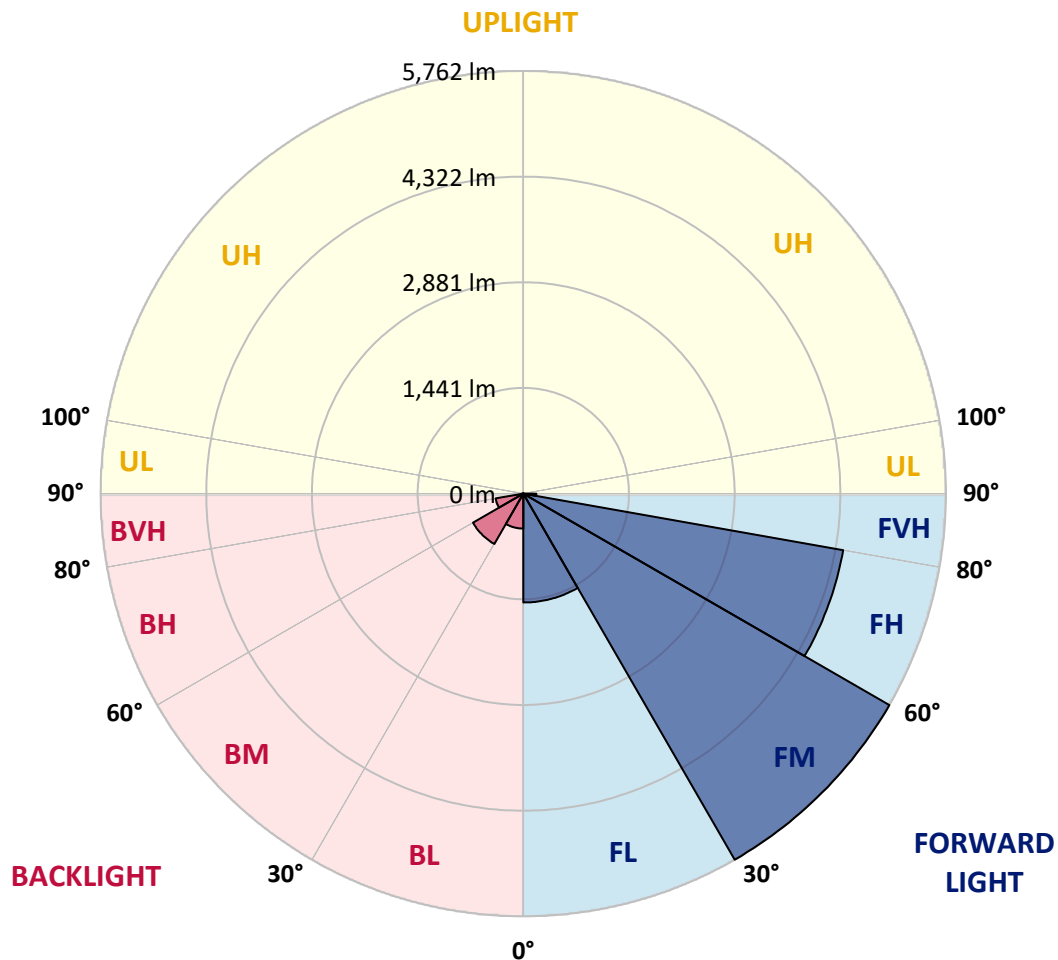
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.7	11.0			
FM (30°-60°)	5762.2	42.6			
FH (60°-80°)	4427.9	32.8			G2/5000
FVH (80°-90°)	177.8	1.3			G2/225
BL (0°-30°)	476.4	3.5	B1/500		
BM (30°-60°)	792.0	5.9	B1/1000		
BH (60°-80°)	382.4	2.8	B1/500		G1/500
BVH (80°-90°)	16.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2
2.5°	4912.2	4890.6	4841.3	4691.2	4560.7	4390.1	4217.5	4081.8	3998.6	3845.5	3775.6
5°	4759.0	4769.3	4626.5	4318.2	3975.0	3740.6	3484.8	3281.3	3057.3	2915.4	2766.4
7.5°	4359.3	4338.7	4183.6	3754.0	3336.8	2997.7	2673.9	2410.9	2245.4	2112.8	2001.9
10°	4017.1	4001.7	3803.3	3250.5	2802.4	2548.6	2329.7	2099.5	1921.7	1727.5	1572.3
12.5°	3802.3	3767.4	3539.2	2961.7	2596.9	2360.5	2122.1	1882.7	1637.0	1440.8	1252.7
15°	3730.4	3680.0	3426.2	2862.0	2465.3	2165.3	1866.2	1590.8	1308.2	1091.4	949.5
17.5°	3860.9	3777.6	3507.4	2844.5	2308.1	1910.4	1542.5	1183.9	889.9	724.5	637.1
20°	4159.9	4064.4	3712.9	2827.1	2133.4	1624.7	1172.5	836.5	615.6	525.1	476.8
22.5°	4603.9	4472.3	4017.1	2854.8	1972.1	1346.2	846.8	590.9	489.2	432.6	398.7
25°	5137.2	5027.3	4402.5	2953.5	1844.6	1127.3	654.6	483.0	412.1	377.1	351.5
27.5°	5722.0	5546.2	4900.9	3071.6	1728.5	957.8	574.5	431.6	366.9	335.0	321.7
30°	6138.2	6001.5	5318.1	3153.9	1583.6	830.3	525.1	425.4	367.9	329.9	305.2
32.5°	6549.2	6374.5	5667.5	3191.9	1477.8	742.0	454.2	371.0	322.7	303.2	278.5
35°	6989.0	6806.1	6015.9	3171.3	1398.6	683.4	412.1	330.9	276.4	243.6	218.9
37.5°	7434.0	7240.8	6362.2	3097.3	1349.3	659.8	379.2	314.5	261.0	227.1	200.4
40°	7962.2	7704.3	6686.9	3036.7	1297.9	647.4	357.6	304.2	249.7	213.8	187.0
42.5°	8393.8	8148.2	6994.2	3004.8	1263.0	618.6	357.6	296.0	242.5	202.4	174.7
45°	8802.9	8548.0	7326.1	3030.5	1248.6	582.7	361.7	294.9	237.4	194.2	166.5
47.5°	9145.1	8924.1	7667.3	3127.1	1230.1	543.6	340.2	309.3	234.3	187.0	158.3
50°	9548.9	9335.2	8118.4	3322.4	1197.2	504.6	313.4	333.0	233.3	180.9	151.1
52.5°	10118.2	9887.0	8741.2	3544.4	1144.8	445.0	288.8	329.9	229.2	170.6	143.9
55°	10814.0	10626.9	9462.6	3810.5	1072.9	378.2	249.7	292.9	216.8	153.1	131.5
57.5°	11260.0	11100.7	10003.1	3925.6	962.9	309.3	219.9	245.6	198.3	136.7	117.2
59°	11312.4	11168.5	10116.2	3887.6	891.0	282.6	205.5	210.7	193.2	127.4	108.9
60°	11268.2	11119.2	10071.0	3813.6	824.2	264.1	193.2	187.0	194.2	122.3	102.8
62.5°	10984.6	10729.7	9632.2	3438.5	720.4	242.5	171.6	153.1	171.6	110.0	91.5
65°	10436.8	10054.5	8763.8	2910.3	679.3	230.2	145.9	128.5	130.5	96.6	79.1
67.5°	9480.1	8998.1	7607.7	2364.6	661.8	231.2	123.3	115.1	100.7	82.2	69.9
70°	7967.4	7486.4	6104.2	1945.3	653.6	231.2	104.8	98.7	84.3	68.9	60.6
72.5°	5645.9	5128.0	4117.8	1528.1	588.8	230.2	89.4	89.4	68.9	57.5	49.3
75°	3189.8	3193.9	2588.7	1081.1	489.2	190.1	71.9	70.9	50.4	44.2	37.0
77.5°	1859.0	1826.1	1744.9	464.5	227.1	86.3	50.4	43.2	34.9	31.9	26.7
80°	955.7	786.2	765.6	168.5	81.2	54.5	34.9	24.7	22.6	20.6	18.5
82.5°	282.6	283.6	252.8	67.8	45.2	36.0	17.5	13.4	12.3	11.3	11.3
85°	19.5	12.3	14.4	20.6	27.7	14.4	1.0	3.1	3.1	4.1	5.1
87.5°	2.1	1.0	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°	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2
2.5°	3698.5	3743.7	3659.5	3661.5	3591.6	3614.2	3532.0	3558.8	3510.5	3547.4	3656.4
5°	2782.9	2793.2	2725.3	2703.7	2714.0	2756.2	2772.6	2697.6	2729.4	2666.8	2662.6
7.5°	1960.8	1973.1	1934.0	1928.9	2002.9	1985.4	2017.3	1940.2	1867.2	1899.1	1840.5
10°	1523.0	1471.6	1391.4	1368.8	1354.4	1363.7	1363.7	1293.8	1283.5	1255.8	1297.9
12.5°	1202.4	1139.7	1063.6	960.9	935.2	933.1	895.1	833.4	813.9	790.3	825.2
15°	873.5	847.8	784.1	726.5	668.0	656.7	595.0	544.7	477.9	468.6	465.5
17.5°	614.5	576.5	575.5	542.6	508.7	486.1	428.5	371.0	345.3	342.2	342.2
20°	460.4	447.0	425.4	421.3	411.1	385.4	334.0	303.2	290.8	291.9	296.0
22.5°	387.4	378.2	358.6	349.4	345.3	322.7	284.7	264.1	257.9	257.9	259.0
25°	346.3	338.1	316.5	302.1	297.0	280.5	250.7	235.3	230.2	230.2	230.2
27.5°	315.5	305.2	282.6	270.3	261.0	242.5	224.0	208.6	203.5	203.5	204.5
30°	293.9	282.6	262.1	245.6	231.2	214.8	199.4	186.0	179.8	178.8	179.8
32.5°	265.1	254.9	234.3	224.0	207.6	188.1	175.7	163.4	157.2	158.3	157.2
35°	206.6	203.5	189.1	192.2	182.9	166.5	155.2	141.8	134.6	133.6	135.6
37.5°	188.1	175.7	159.3	160.3	157.2	151.1	132.6	118.2	113.0	113.0	114.1
40°	173.7	161.3	142.8	133.6	134.6	134.6	115.1	99.7	94.5	93.5	95.6
42.5°	161.3	149.0	128.5	113.0	108.9	114.1	97.6	82.2	77.1	75.0	77.1
45°	153.1	139.8	116.1	98.7	86.3	92.5	80.2	67.8	61.7	61.7	60.6
47.5°	144.9	132.6	106.9	85.3	71.9	68.9	65.8	54.5	48.3	47.3	48.3
50°	137.7	125.4	96.6	74.0	60.6	53.4	53.4	43.2	39.1	37.0	38.0
52.5°	130.5	117.2	87.4	65.8	52.4	43.2	38.0	34.9	31.9	30.8	31.9
55°	120.2	106.9	78.1	56.5	45.2	36.0	29.8	28.8	26.7	24.7	26.7
57.5°	107.9	95.6	68.9	48.3	36.0	27.7	24.7	23.6	21.6	20.6	20.6
59°	100.7	89.4	63.7	42.1	31.9	24.7	22.6	21.6	19.5	17.5	18.5
60°	96.6	87.4	60.6	39.1	28.8	22.6	20.6	19.5	17.5	16.4	17.5
62.5°	85.3	78.1	53.4	31.9	22.6	16.4	14.4	15.4	14.4	13.4	14.4
65°	75.0	68.9	45.2	24.7	17.5	11.3	10.3	13.4	12.3	11.3	12.3
67.5°	66.8	59.6	38.0	18.5	12.3	6.2	7.2	11.3	11.3	10.3	11.3
70°	57.5	51.4	30.8	13.4	6.2	3.1	5.1	8.2	10.3	9.2	10.3
72.5°	47.3	40.1	23.6	9.2	3.1	0.0	3.1	7.2	10.3	9.2	10.3
75°	37.0	29.8	17.5	5.1	0.0	0.0	1.0	6.2	10.3	9.2	10.3
77.5°	26.7	21.6	10.3	1.0	0.0	0.0	1.0	6.2	10.3	9.2	10.3
80°	17.5	15.4	4.1	0.0	0.0	0.0	1.0	6.2	10.3	10.3	11.3
82.5°	11.3	8.2	0.0	0.0	0.0	0.0	2.1	8.2	11.3	12.3	12.3
85°	5.1	0.0	0.0	0.0	0.0	0.0	4.1	10.3	13.4	13.4	13.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	7.2	12.3	15.4	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2
2.5°	3674.9	3739.6	3831.1	3971.9	4085.9	4265.8	4403.5	4591.5	4781.7	4839.2	4928.6
5°	2704.8	2788.0	2995.6	3184.7	3303.9	3684.1	3924.6	4303.8	4644.0	4807.3	4985.1
7.5°	1878.5	1977.2	2135.5	2399.6	2650.3	2959.6	3348.1	3781.8	4280.2	4513.4	4764.2
10°	1318.5	1441.8	1664.8	1881.6	2197.1	2491.0	2874.3	3353.2	3903.0	4178.4	4492.9
12.5°	832.4	942.4	1237.3	1480.8	1874.4	2215.6	2569.1	3002.8	3639.9	3922.5	4252.4
15°	475.8	568.3	706.0	1018.4	1455.2	1906.3	2347.2	2850.7	3505.3	3853.7	4210.3
17.5°	354.5	379.2	440.9	617.6	1015.3	1542.5	2142.7	2804.5	3596.8	4005.8	4412.7
20°	298.0	314.5	343.2	413.1	647.4	1188.0	1943.3	2812.7	3892.7	4406.6	4793.0
22.5°	267.2	277.5	301.1	346.3	441.9	865.3	1710.0	2861.0	4251.4	4898.8	5344.8
25°	234.3	247.7	268.2	307.3	367.9	600.1	1479.8	2968.9	4753.9	5523.6	5942.9
27.5°	208.6	220.9	241.5	277.5	322.7	458.3	1211.6	3061.4	5284.2	6152.5	6495.8
30°	182.9	195.3	215.8	244.6	285.7	371.0	922.8	3115.8	5799.0	6624.2	6888.3
32.5°	161.3	171.6	191.1	216.8	250.7	314.5	727.6	3059.3	6192.6	7052.8	7229.5
35°	139.8	152.1	168.5	192.2	222.0	268.2	605.3	2864.1	6530.7	7493.6	7557.3
37.5°	117.2	131.5	149.0	170.6	194.2	246.6	486.1	2648.3	6892.4	8043.4	7938.6
40°	98.7	112.0	128.5	152.1	173.7	226.1	374.1	2418.1	7283.0	8559.3	8354.8
42.5°	80.2	94.5	114.1	135.6	171.6	197.3	289.8	2179.6	7633.4	9008.4	8730.9
45°	63.7	76.0	96.6	124.3	170.6	169.6	224.0	1944.3	7897.5	9329.0	9011.5
47.5°	50.4	60.6	81.2	121.3	157.2	143.9	179.8	1798.4	8175.0	9617.8	9226.2
50°	40.1	50.4	69.9	126.4	137.7	123.3	151.1	1822.0	8443.2	9764.7	9314.6
52.5°	33.9	44.2	60.6	99.7	105.8	107.9	132.6	1931.0	8789.5	9922.0	9490.3
55°	29.8	39.1	51.4	69.9	82.2	96.6	121.3	2010.1	9253.0	10259.0	9877.8
57.5°	23.6	33.9	46.2	59.6	67.8	84.3	112.0	2016.2	9672.2	10691.7	10392.6
59°	21.6	30.8	43.2	56.5	60.6	76.0	105.8	1963.8	9687.7	10756.4	10629.0
60°	19.5	29.8	41.1	52.4	57.5	71.9	100.7	1903.2	9547.9	10653.6	10726.6
62.5°	16.4	25.7	36.0	42.1	49.3	59.6	87.4	1683.3	8870.7	10188.1	10545.7
65°	14.4	22.6	30.8	34.9	41.1	51.4	77.1	1347.2	8122.5	9557.1	10027.8
67.5°	13.4	20.6	26.7	29.8	36.0	47.3	68.9	951.6	7153.5	8756.6	9249.9
70°	12.3	19.5	23.6	27.7	31.9	40.1	58.6	554.9	5510.3	7352.8	7873.9
72.5°	12.3	18.5	20.6	23.6	27.7	36.0	54.5	300.1	3767.4	5608.9	6282.0
75°	12.3	17.5	18.5	20.6	24.7	32.9	48.3	157.2	2435.5	3896.8	4809.4
77.5°	12.3	16.4	18.5	19.5	23.6	28.8	42.1	98.7	1622.7	2729.4	3250.5
80°	13.4	16.4	17.5	19.5	22.6	26.7	34.9	65.8	953.7	1642.2	1978.2
82.5°	14.4	16.4	18.5	20.6	23.6	25.7	30.8	41.1	439.8	1086.2	1229.1
85°	15.4	17.5	19.5	21.6	24.7	25.7	28.8	29.8	71.9	490.2	662.8
87.5°	16.4	18.5	20.6	22.6	26.7	26.7	26.7	26.7	24.7	52.4	133.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2	4468.2
2.5°	5041.7	5157.8	5239.0	5259.5	5200.9	5174.2	5100.2	4985.1	4915.3	4912.2
5°	5313.0	5585.3	5774.4	5806.2	5693.2	5502.0	5274.9	4982.0	4810.4	4759.0
7.5°	5266.7	5743.5	6047.7	6091.9	5901.8	5537.0	5097.1	4625.5	4438.4	4359.3
10°	5076.6	5658.2	6092.9	6162.8	5909.0	5395.2	4836.1	4310.0	4077.7	4017.1
12.5°	4914.2	5502.0	5888.4	5985.0	5792.9	5280.1	4679.9	4107.5	3858.8	3802.3
15°	4843.3	5317.1	5553.4	5602.7	5570.9	5208.1	4663.5	4076.7	3792.0	3730.4
17.5°	4914.2	5159.8	5189.6	5240.0	5310.9	5200.9	4821.7	4244.2	3936.9	3860.9
20°	5100.2	5023.2	4899.8	4921.4	5083.8	5230.7	5103.3	4615.2	4241.1	4159.9
22.5°	5416.7	4989.2	4709.7	4691.2	4896.8	5330.4	5516.4	5117.7	4684.0	4603.9
25°	5805.2	5074.5	4639.8	4599.8	4823.8	5476.3	5965.5	5733.3	5259.5	5137.2
27.5°	6228.6	5251.3	4639.8	4600.8	4817.6	5605.8	6349.9	6277.9	5855.6	5722.0
30°	6460.8	5397.2	4706.6	4662.4	4893.7	5680.8	6555.4	6761.9	6303.6	6138.2
32.5°	6668.4	5599.7	4837.1	4753.9	5053.0	5791.8	6739.3	7173.0	6660.2	6549.2
35°	6859.6	5816.5	5017.0	4920.4	5262.6	5943.9	6942.8	7604.6	7156.6	6989.0
37.5°	7070.2	6068.3	5297.5	5215.3	5613.0	6239.9	7184.3	8171.9	7644.7	7434.0
40°	7299.4	6360.1	5759.0	5724.0	6170.0	6574.9	7489.5	8777.2	8201.7	7962.2
42.5°	7532.7	6696.2	6324.2	6381.7	6801.0	7044.5	7802.9	9242.7	8658.0	8393.8
45°	7744.4	7125.7	7058.9	7343.6	7536.8	7502.9	8035.2	9570.5	9055.7	8802.9
47.5°	8011.6	7751.6	7947.8	8386.7	8391.8	8001.3	8210.9	9838.7	9397.9	9145.1
50°	8310.6	8490.4	9095.7	9542.8	9422.5	8491.5	8416.5	10156.3	9751.4	9548.9
52.5°	8656.9	9317.7	10156.3	10652.6	10372.1	9025.9	8758.7	10499.5	10312.5	10118.2
55°	9059.8	9881.9	11213.7	11609.4	11326.8	9689.7	9278.7	10965.0	10946.5	10814.0
57.5°	9515.0	10477.9	11826.2	12361.6	12109.8	10468.7	10005.2	11403.8	11334.0	11260.0
59°	9874.7	10784.2	12096.5	12651.4	12499.3	11014.4	10493.3	11677.2	11423.4	11312.4
60°	10092.6	10991.7	12196.2	12690.5	12655.5	11339.1	10802.7	11810.8	11422.3	11268.2
62.5°	10738.9	11354.5	12158.1	12516.8	12653.5	11961.8	11710.1	11957.7	11210.6	10984.6
65°	10969.1	11234.3	11528.2	11484.0	11601.1	11930.0	12289.7	11796.4	10758.5	10436.8
67.5°	10521.1	9915.8	10019.6	9724.7	9667.1	10606.4	12054.3	11007.2	9873.7	9480.1
70°	8868.6	7596.4	7544.0	7679.6	7307.6	8587.0	10824.2	9487.3	8413.4	7967.4
72.5°	6980.8	5368.4	4926.6	5426.0	5414.7	6551.3	8991.9	6732.1	5683.9	5645.9
75°	5489.7	3737.6	3280.3	3361.4	3517.6	4742.6	7161.7	4275.0	3500.2	3189.8
77.5°	3685.2	2648.3	2470.5	2370.8	2539.3	3044.9	4530.9	2318.4	1962.8	1859.0
80°	2124.2	1923.8	2184.8	1983.4	2073.8	1918.6	2253.6	1063.6	882.8	955.7
82.5°	1382.2	1095.5	1167.4	867.3	1185.9	1196.2	723.5	314.5	266.2	282.6
85°	864.3	513.8	288.8	205.5	409.0	752.2	226.1	19.5	22.6	19.5
87.5°	224.0	85.3	36.0	53.4	65.8	58.6	52.4	3.1	1.0	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)