

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: P647997

Luminaire Tested: **GALN-SA6A-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647997
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-SA6A-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA 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: 18302.6 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

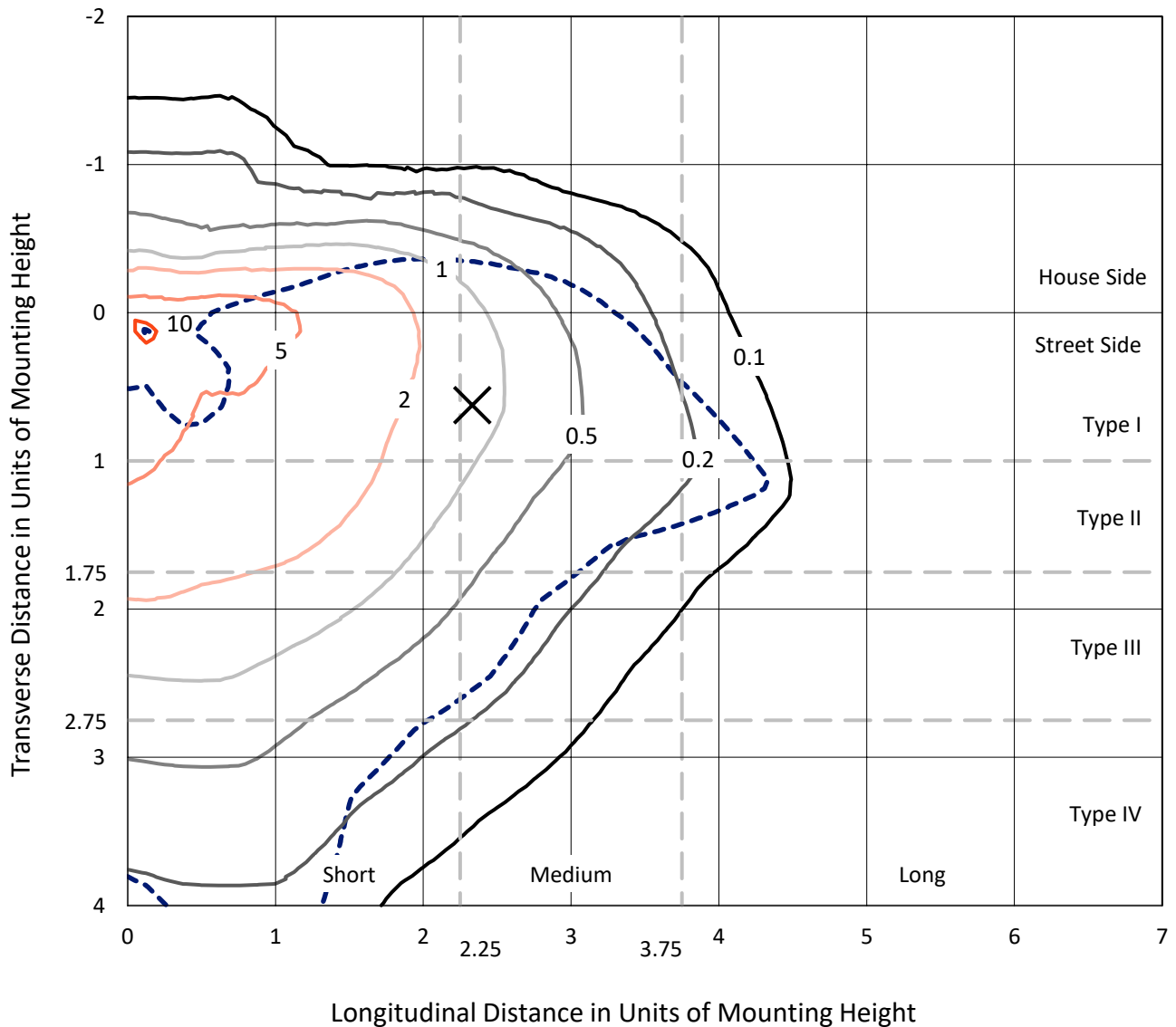
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

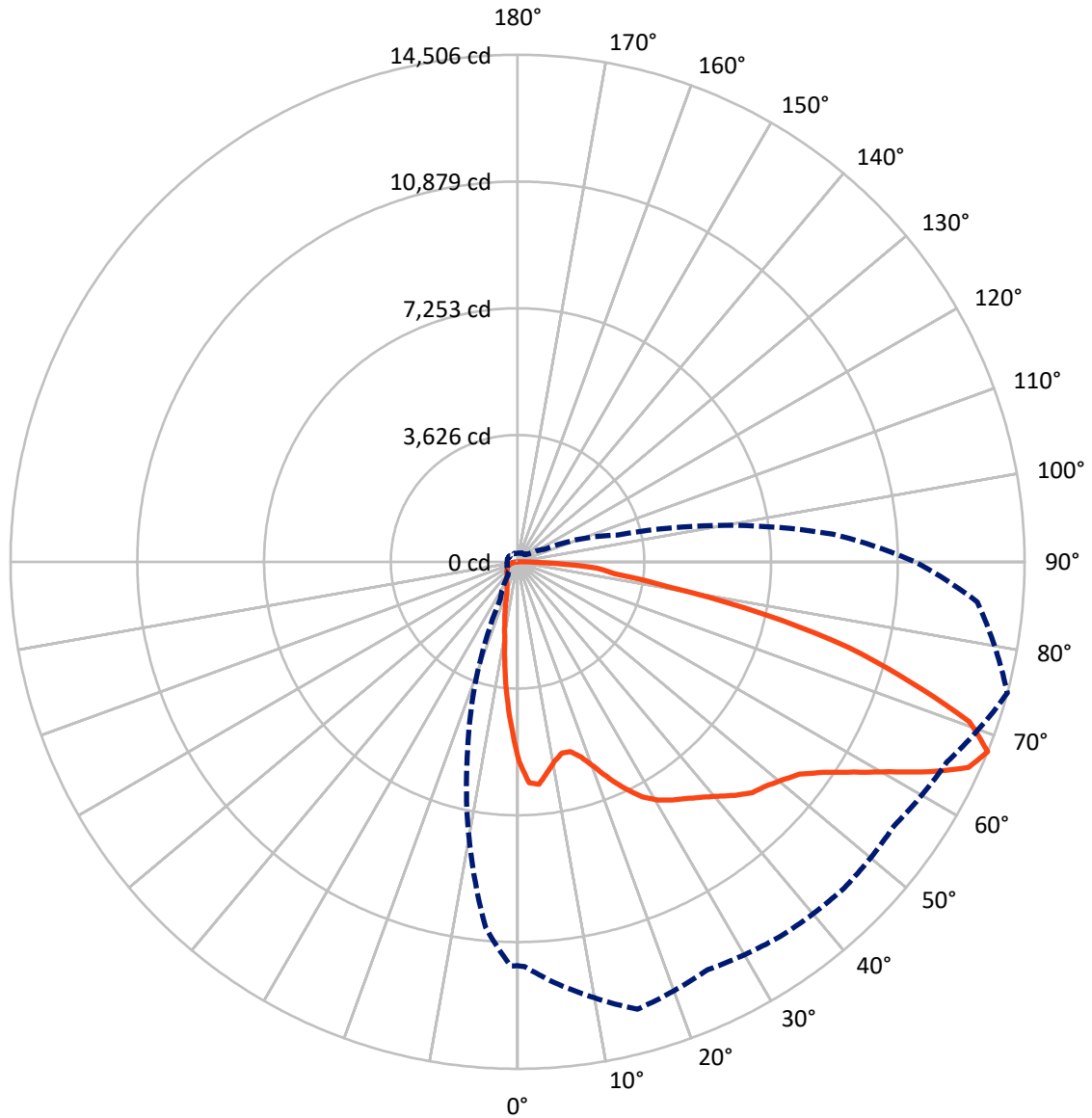
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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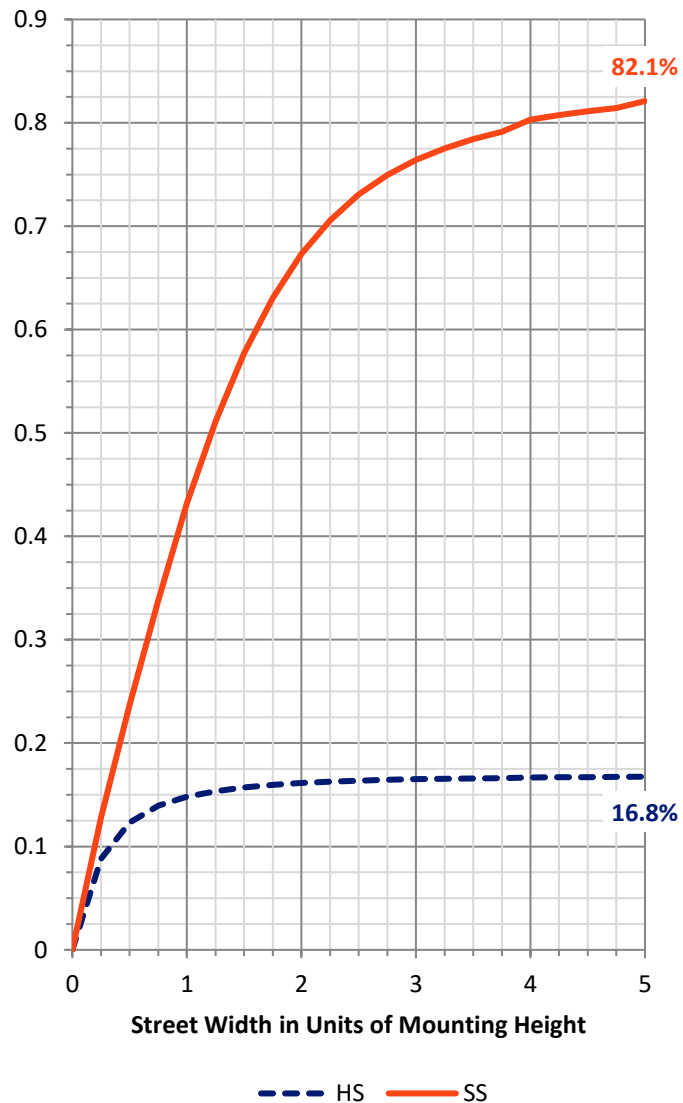
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3093.5	0.0	3093.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	15209.1	0.0	15209.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	18302.6	0.0	18302.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.7	2.4
10°-20°	904.5	4.9
20°-30°	1301.6	7.1
30°-40°	1874.7	10.2
40°-50°	2633.4	14.4
50°-60°	3672.7	20.1
60°-70°	4366.6	23.9
70°-80°	2571.7	14.1
80°-90°	543.8	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°	18302.6	100.0
0°-180°	18302.6	100.0

Coefficient of Utilization

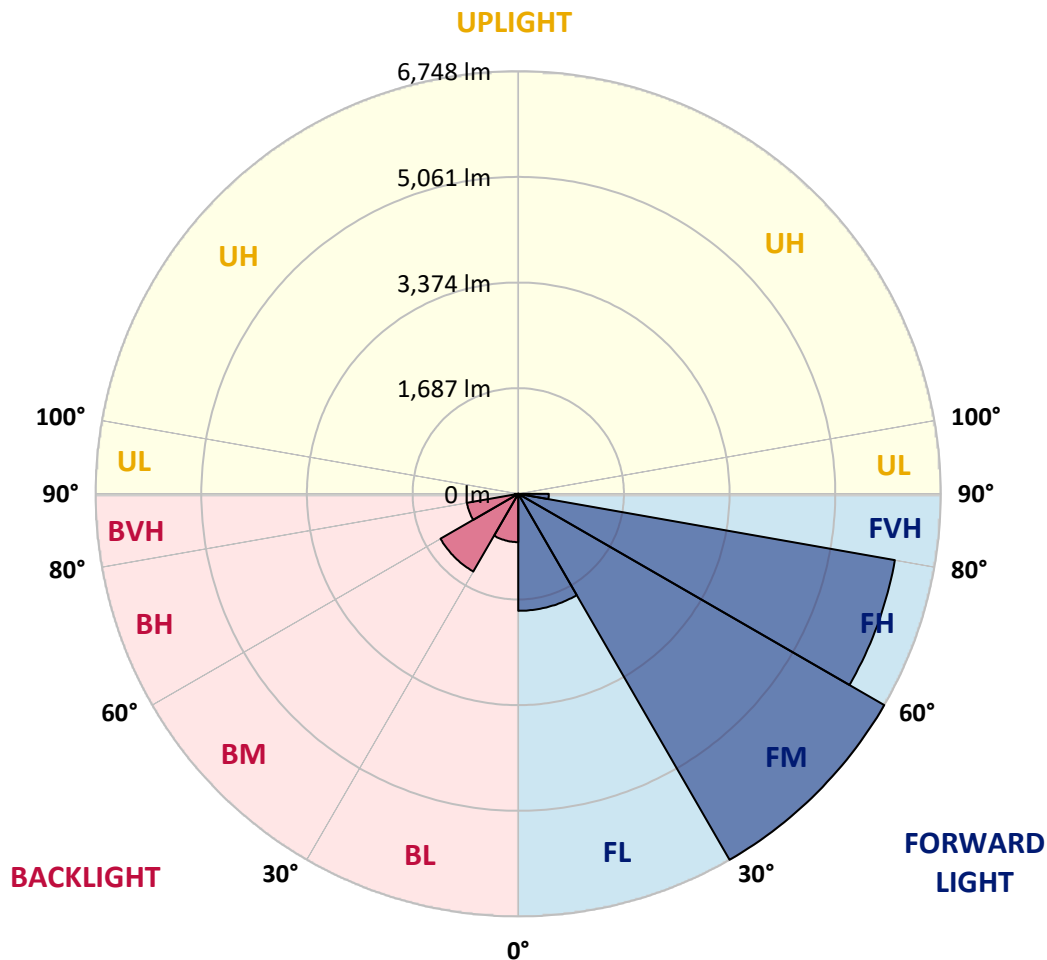


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1868.2	10.2			
FM (30°-60°)	6747.5	36.9			
FH (60°-80°)	6105.8	33.4			G3/7500
FVH (80°-90°)	487.6	2.7			G3/500
BL (0°-30°)	771.6	4.2	B2/1000		
BM (30°-60°)	1433.2	7.8	B2/2500		
BH (60°-80°)	832.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	56.2	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°	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2
2.5°	6165.3	6173.6	6226.4	6380.1	6485.7	6524.5	6551.5	6501.0	6451.7	6332.0	6151.2
5°	6146.6	6194.7	6332.0	6677.0	6949.4	7066.7	7102.0	6950.5	6700.5	6393.0	6023.3
7.5°	5787.4	5852.0	6063.2	6641.9	7121.9	7396.5	7360.1	7086.7	6636.0	6087.9	5571.4
10°	5361.4	5433.0	5687.6	6387.2	7005.7	7383.6	7383.6	7050.3	6451.7	5800.3	5205.3
12.5°	5023.3	5098.5	5389.5	6125.4	6763.9	7121.9	7181.8	6895.4	6319.1	5618.4	4964.7
15°	4911.8	4984.7	5298.0	5967.0	6508.1	6726.4	6746.3	6652.4	6254.5	5631.3	4954.1
17.5°	5050.4	5144.2	5461.1	6013.9	6273.3	6286.2	6301.5	6375.4	6261.6	5867.3	5167.7
20°	5450.5	5551.5	5882.5	6165.3	6067.9	5934.1	5942.3	6132.5	6344.9	6256.9	5678.2
22.5°	6028.0	6116.0	6455.2	6431.8	5981.1	5705.3	5647.8	5913.0	6468.1	6742.8	6221.7
25°	6651.3	6754.5	7144.2	6827.3	6005.7	5569.1	5532.8	5783.9	6596.1	7197.0	6849.6
27.5°	7364.8	7465.7	7773.3	7226.4	6134.8	5558.5	5515.1	5772.2	6711.1	7617.2	7449.4
30°	7895.4	7988.1	8197.0	7562.1	6293.3	5629.0	5575.0	5864.9	6809.7	7904.8	8033.8
32.5°	8312.0	8408.2	8522.1	7771.0	6502.2	5756.9	5657.2	6033.9	6938.8	8124.3	8467.0
35°	8746.3	8860.1	8851.9	7956.4	6697.0	5904.8	5807.4	6278.0	7141.8	8315.5	9016.2
37.5°	9296.7	9342.5	9283.8	8123.1	6930.6	6171.2	6117.2	6640.7	7430.6	8546.8	9658.2
40°	9855.4	9946.9	9645.3	8324.9	7214.6	6672.4	6666.5	7177.1	7773.3	8817.8	10280.2
42.5°	10334.3	10411.7	9983.3	8501.0	7558.5	7283.9	7328.5	7896.6	8222.8	9132.4	10780.3
45°	10694.6	10763.8	10295.5	8671.2	8011.6	7990.4	8253.3	8667.7	8789.7	9415.3	11073.7
47.5°	11000.9	11067.8	10512.6	8929.3	8571.4	8834.3	9292.0	9471.6	9274.4	9577.3	11402.3
50°	11259.1	11279.0	10661.7	9236.9	9266.2	9868.3	10312.0	10428.2	9753.3	9809.7	11687.5
52.5°	11527.9	11502.0	10918.8	9624.2	10017.4	10849.5	11172.2	11293.1	10212.2	10096.0	12103.0
55°	12130.0	12154.7	11495.1	10112.4	10776.7	11813.1	12238.0	12121.8	10720.4	10623.0	12631.1
57.5°	12857.6	12836.6	12306.0	10876.5	11550.2	12709.8	13026.7	12840.1	11398.8	11347.2	13166.4
60°	13140.5	13168.7	12984.4	11698.1	12313.1	13495.0	13818.9	13529.0	12212.1	12188.6	13570.1
62.5°	12856.5	13014.9	13139.4	12429.3	12963.3	14072.5	14394.0	14063.1	13060.8	13230.9	13853.0
65°	12290.8	12324.8	12748.5	13049.0	13276.7	14167.5	14335.3	14159.3	13769.6	14180.4	13840.1
67.5°	11556.1	11585.4	12081.8	13252.0	12872.9	13087.7	13205.1	13153.5	13550.1	14505.5	13202.7
70°	10856.5	10833.0	11357.7	12734.4	11206.3	10880.0	10977.4	10815.5	11692.2	13711.0	11952.7
72.5°	9495.0	9579.6	10143.0	11295.5	8873.0	8342.6	8555.0	8135.9	8992.8	11742.7	9701.7
75°	7437.6	7457.6	8397.7	9479.9	6693.5	5856.7	6144.2	5969.4	6888.4	9795.6	6699.3
77.5°	5150.1	5105.5	6116.0	7240.4	4773.3	4287.5	4292.2	4208.8	4809.7	7212.3	4551.5
80°	3271.1	3202.9	3828.6	4472.9	3280.5	3509.3	3394.3	3390.8	3131.4	4449.4	2752.2
82.5°	1767.5	1842.7	2418.9	2803.9	2353.2	2712.4	2485.9	2413.0	2149.0	2785.1	1760.5
85°	805.2	875.6	1289.9	1907.2	1787.5	1807.5	1207.7	1424.8	1778.1	2261.7	940.1
87.5°	78.6	100.9	266.5	900.2	610.3	481.2	179.5	346.2	447.2	804.0	75.1
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°	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2
2.5°	6077.3	6016.3	5808.5	5637.2	5455.2	5316.8	5136.0	5015.1	4931.8	4806.2	4790.9
5°	5798.0	5649.0	5287.4	4918.9	4600.8	4361.4	4118.4	3895.4	3764.0	3722.9	3670.1
7.5°	5327.4	5076.2	4611.4	4188.9	3823.9	3467.0	3192.4	2997.6	2867.3	2791.0	2699.5
10°	4940.0	4649.0	4083.3	3565.6	3265.2	3043.4	2801.6	2592.7	2431.8	2294.6	2219.4
12.5°	4679.4	4350.8	3714.7	3294.6	3062.2	2826.2	2543.3	2308.6	2071.6	1915.5	1848.6
15°	4600.8	4253.4	3600.9	3159.6	2826.2	2517.6	2200.6	1894.3	1659.6	1511.7	1462.4
17.5°	4793.3	4373.1	3599.7	2979.9	2549.2	2180.7	1774.6	1487.1	1246.5	1136.1	1100.9
20°	5152.5	4603.2	3610.3	2802.7	2248.8	1730.0	1291.0	1055.2	940.1	893.2	875.6
22.5°	5653.7	4954.1	3642.0	2627.9	1920.2	1328.6	967.1	847.4	806.3	798.1	794.6
25°	6271.0	5388.4	3748.8	2470.6	1643.1	1014.1	808.7	754.7	731.2	723.0	721.8
27.5°	6839.0	5949.4	3877.8	2335.6	1375.6	874.4	731.2	685.4	661.9	660.8	663.1
30°	7351.9	6418.9	3985.8	2184.3	1172.5	777.0	680.7	634.9	612.7	611.5	618.5
32.5°	7795.6	6805.0	4065.6	2035.2	1059.9	717.1	634.9	585.7	566.9	563.4	566.9
35°	8269.7	7190.0	4029.2	1919.0	995.3	667.8	601.0	552.8	530.5	519.9	519.9
37.5°	8810.8	7586.6	3967.1	1822.7	965.9	626.7	571.6	524.6	502.4	491.8	490.6
40°	9401.2	7983.4	3881.3	1737.1	936.6	602.1	551.6	502.4	475.4	464.8	462.4
42.5°	9922.3	8322.6	3810.9	1680.7	888.5	606.8	534.0	485.9	451.9	437.8	436.6
45°	10375.4	8664.1	3798.0	1647.8	848.5	599.8	529.3	473.0	433.1	417.8	415.5
47.5°	10729.8	9019.8	3871.9	1629.0	805.2	562.2	559.8	464.8	416.6	400.2	397.8
50°	11161.7	9524.4	4041.0	1590.4	765.2	527.0	591.6	463.6	403.7	382.7	376.8
52.5°	11736.8	10181.7	4269.9	1521.1	707.8	494.2	564.5	463.6	388.5	367.4	360.3
55°	12606.5	11019.7	4494.0	1423.7	626.7	450.7	509.3	449.5	366.2	347.4	342.7
57.5°	13182.7	11632.3	4637.2	1288.7	525.8	419.0	438.9	427.2	343.9	323.9	323.9
60°	13212.1	11796.7	4569.1	1118.5	462.4	389.7	381.5	430.7	323.9	302.8	300.4
62.5°	12874.1	11394.1	4214.7	965.9	428.4	358.0	345.1	378.0	304.0	282.8	279.4
65°	12346.0	10367.2	3599.7	893.2	409.6	329.8	311.0	309.8	282.8	262.9	258.2
67.5°	11375.3	9059.6	2957.7	850.9	400.2	298.1	280.5	274.7	258.2	241.8	239.4
70°	9944.6	7587.8	2372.0	833.3	395.5	265.3	251.2	244.1	230.0	217.1	216.0
72.5°	7736.9	6154.8	1957.7	821.6	393.1	234.7	219.5	210.1	201.9	190.1	190.1
75°	5557.3	4528.1	1494.1	740.6	363.9	201.9	185.4	179.5	167.9	158.5	160.8
77.5°	3503.5	3049.2	983.5	544.6	281.6	162.0	147.9	144.4	135.0	122.1	130.3
80°	2366.1	2144.3	573.9	342.7	177.2	118.5	113.8	112.7	102.1	88.0	89.2
82.5°	1610.3	1579.8	298.1	194.8	102.1	69.2	66.9	69.2	57.5	47.0	47.0
85°	629.1	859.1	140.9	76.3	32.9	10.6	15.3	16.4	9.4	4.7	5.9
87.5°	11.7	88.0	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°	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2
2.5°	4767.5	4757.0	4774.5	4699.4	4714.7	4742.9	4757.0	4765.2	4881.3	4854.4	4928.3
5°	3719.4	3708.8	3776.9	3786.3	3821.5	3814.5	3848.5	3856.7	3898.9	3914.2	4017.5
7.5°	2705.3	2751.1	2828.6	2868.4	2928.3	2947.1	2929.5	2973.0	2884.9	2948.3	2967.1
10°	2173.7	2118.5	2085.6	2177.2	2188.9	2275.8	2240.6	2212.4	2264.0	2266.4	2315.6
12.5°	1809.8	1691.3	1612.7	1638.4	1666.6	1704.2	1710.1	1766.4	1804.0	1839.2	1868.5
15°	1419.0	1377.9	1306.3	1271.1	1311.0	1326.2	1362.7	1409.6	1449.5	1460.1	1500.0
17.5°	1089.2	1096.2	1084.5	1063.4	1088.0	1099.7	1102.1	1103.2	1113.8	1106.8	1165.5
20°	876.7	901.4	930.8	935.5	943.7	949.5	939.0	899.0	900.2	924.9	943.7
22.5°	793.4	798.1	831.0	841.5	867.3	856.8	826.3	807.5	805.2	811.0	820.4
25°	727.7	734.7	758.2	774.6	794.6	775.8	753.5	735.9	733.5	739.4	748.8
27.5°	669.0	679.6	700.7	717.1	735.9	718.3	697.2	681.9	680.7	679.6	685.4
30°	622.0	633.8	649.0	667.8	680.7	665.5	645.5	637.3	636.1	633.8	636.1
32.5°	575.1	593.9	609.2	618.5	631.4	619.7	604.5	599.8	591.6	584.5	581.0
35°	522.3	542.2	565.7	577.5	590.4	578.6	568.1	548.1	534.0	532.8	535.2
37.5°	491.8	500.0	518.7	538.7	551.6	545.8	525.8	505.8	502.4	502.4	504.7
40°	464.8	468.3	476.5	502.4	525.8	508.2	483.6	477.7	477.7	476.5	477.7
42.5°	437.8	441.3	441.3	461.3	498.8	470.7	451.9	451.9	451.9	453.0	456.6
45°	413.1	414.3	413.1	427.2	462.4	438.9	426.0	429.6	431.9	434.3	436.6
47.5°	392.0	393.1	392.0	403.7	421.3	411.9	404.9	409.6	414.3	417.8	420.2
50°	373.3	372.1	374.4	381.5	389.7	392.0	387.4	394.3	396.7	401.4	407.2
52.5°	356.8	355.6	358.0	361.5	373.3	373.3	373.3	379.1	383.8	388.5	396.7
55°	338.0	339.2	342.7	347.4	362.7	360.3	361.5	366.2	370.9	378.0	382.7
57.5°	320.4	322.8	327.5	334.5	349.8	348.6	349.8	352.1	358.0	361.5	366.2
60°	300.4	305.1	311.0	315.7	331.0	329.8	335.7	340.4	343.9	343.9	346.2
62.5°	280.5	287.5	293.4	296.9	313.4	314.5	322.8	326.3	328.6	326.3	329.8
65°	260.6	271.2	273.5	278.2	294.6	295.7	305.1	313.4	311.0	308.7	314.5
67.5°	240.6	253.5	252.4	258.2	274.7	277.0	285.2	299.3	294.6	292.2	296.9
70°	218.3	227.7	228.9	232.4	254.7	251.2	264.1	277.0	273.5	274.7	274.7
72.5°	193.6	201.9	201.9	208.9	232.4	226.5	237.1	251.2	251.2	250.0	250.0
75°	164.4	169.0	173.7	184.2	208.9	201.9	208.9	221.8	224.2	221.8	221.8
77.5°	132.6	139.7	142.0	156.1	173.7	172.5	179.5	185.4	190.1	187.8	187.8
80°	93.9	100.9	110.3	125.6	136.2	139.7	143.2	147.9	150.3	150.3	152.6
82.5°	52.9	63.3	71.6	86.8	91.5	109.2	108.0	111.5	108.0	95.1	105.6
85°	11.7	22.3	31.7	39.9	45.8	63.3	66.9	75.1	62.2	57.5	57.5
87.5°	0.0	0.0	0.0	0.0	0.0	9.4	18.8	25.8	22.3	18.8	18.8
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°	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2	5718.2
2.5°	4990.5	5092.6	5215.9	5428.3	5577.3	5738.1	5900.1	6072.6	6118.4	6165.3
5°	4045.7	4246.4	4355.5	4640.8	4940.0	5320.3	5631.3	5971.7	6113.7	6146.6
7.5°	3064.5	3200.6	3487.0	3775.7	4146.6	4545.6	5022.2	5552.7	5718.2	5787.4
10°	2429.5	2615.0	2866.1	3176.0	3501.1	3930.7	4468.2	5087.9	5322.7	5361.4
12.5°	2068.1	2274.6	2548.0	2875.5	3183.1	3507.0	4049.2	4688.8	4940.0	5023.3
15°	1653.7	1903.7	2219.4	2564.5	2899.0	3253.4	3802.7	4524.6	4814.4	4911.8
17.5°	1299.2	1501.2	1842.7	2217.1	2613.8	3062.2	3751.1	4603.2	4960.0	5050.4
20°	994.1	1138.5	1426.0	1821.6	2286.4	2873.1	3764.0	4900.1	5327.4	5450.5
22.5°	859.1	933.1	1107.9	1484.7	2004.6	2708.9	3816.8	5307.4	5822.6	6028.0
25°	778.1	816.9	915.5	1162.0	1735.9	2549.2	3937.7	5855.5	6515.1	6651.3
27.5°	708.9	737.0	798.1	975.3	1491.8	2401.4	4078.6	6463.4	7161.8	7364.8
30°	643.2	680.7	738.2	866.2	1335.6	2266.4	4255.8	6956.4	7706.4	7895.4
32.5°	592.7	630.2	683.1	789.9	1203.0	2124.4	4361.4	7389.5	8151.2	8312.0
35°	551.6	583.3	638.5	728.9	1102.1	2016.4	4340.2	7733.4	8582.0	8746.3
37.5°	522.3	549.3	604.5	671.3	1025.8	1903.7	4329.7	8187.6	9106.6	9296.7
40°	495.3	523.4	573.9	633.8	949.5	1771.1	4335.5	8638.3	9665.3	9855.4
42.5°	474.2	505.8	546.9	623.2	870.9	1664.3	4335.5	9030.3	10151.2	10334.3
45°	456.6	490.6	530.5	622.0	808.7	1583.3	4306.3	9367.2	10538.5	10694.6
47.5°	441.3	478.9	536.4	601.0	793.4	1524.6	4280.4	9637.1	10854.2	11000.9
50°	430.7	475.4	570.4	576.3	798.1	1507.0	4404.8	9977.5	11132.4	11259.1
52.5°	422.5	476.5	569.2	539.9	789.9	1518.7	4664.2	10509.1	11518.5	11527.9
55°	406.1	475.4	539.9	498.8	755.8	1538.7	4997.5	11281.4	12123.0	12130.0
57.5°	389.7	462.4	501.2	463.6	686.6	1538.7	5398.9	12012.6	12851.8	12857.6
60°	373.3	481.2	440.1	433.1	596.3	1510.6	5822.6	12334.2	13080.6	13140.5
62.5°	356.8	484.8	393.1	406.1	530.5	1442.4	6138.3	11978.6	12770.8	12856.5
65°	338.0	390.9	362.7	378.0	496.5	1328.6	6038.6	11327.2	12188.6	12290.8
67.5°	315.7	331.0	329.8	348.6	484.8	1160.8	5512.8	10503.2	11561.9	11556.1
70°	288.7	296.9	300.4	320.4	462.4	1030.5	4593.8	9434.1	10725.1	10856.5
72.5°	260.6	267.6	271.2	288.7	440.1	956.5	3565.6	7961.1	9289.7	9495.0
75°	230.0	234.7	239.4	254.7	416.6	847.4	2539.8	6077.3	7114.9	7437.6
77.5°	198.3	198.3	204.2	219.5	350.9	699.5	1704.2	4262.8	4820.3	5150.1
80°	160.8	162.0	159.7	176.0	258.2	478.9	968.3	2847.4	3207.6	3271.1
82.5°	123.2	119.7	120.9	129.1	192.5	326.3	516.4	1768.7	1802.8	1767.5
85°	77.4	77.4	75.1	84.5	123.2	170.1	281.6	1083.3	846.2	805.2
87.5°	31.7	25.8	29.4	34.1	58.6	69.2	110.3	223.0	85.7	78.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)