

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: P647942

Luminaire Tested: **GALN-SA5A-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647942
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-SA5A-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 15457.2 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

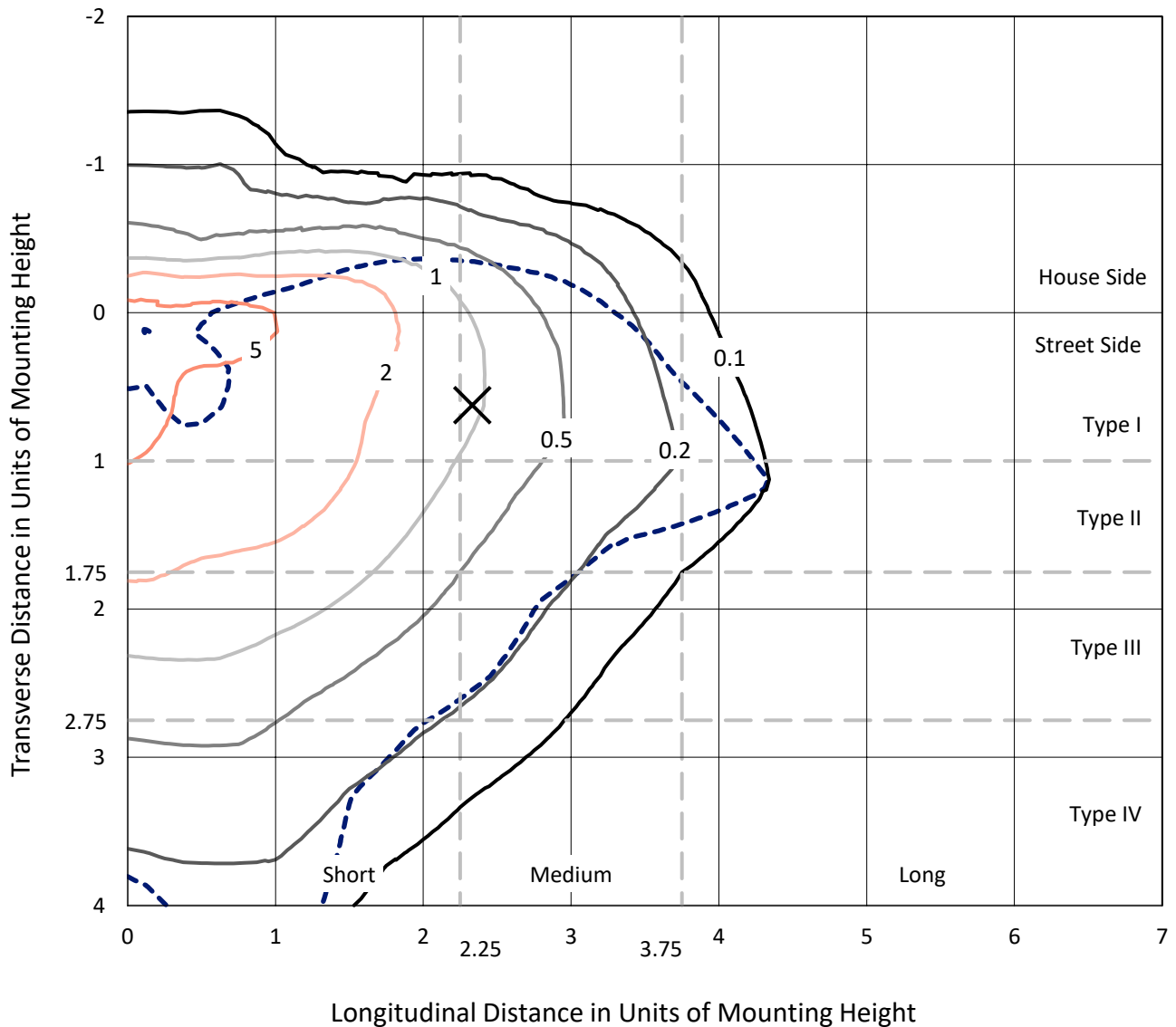
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

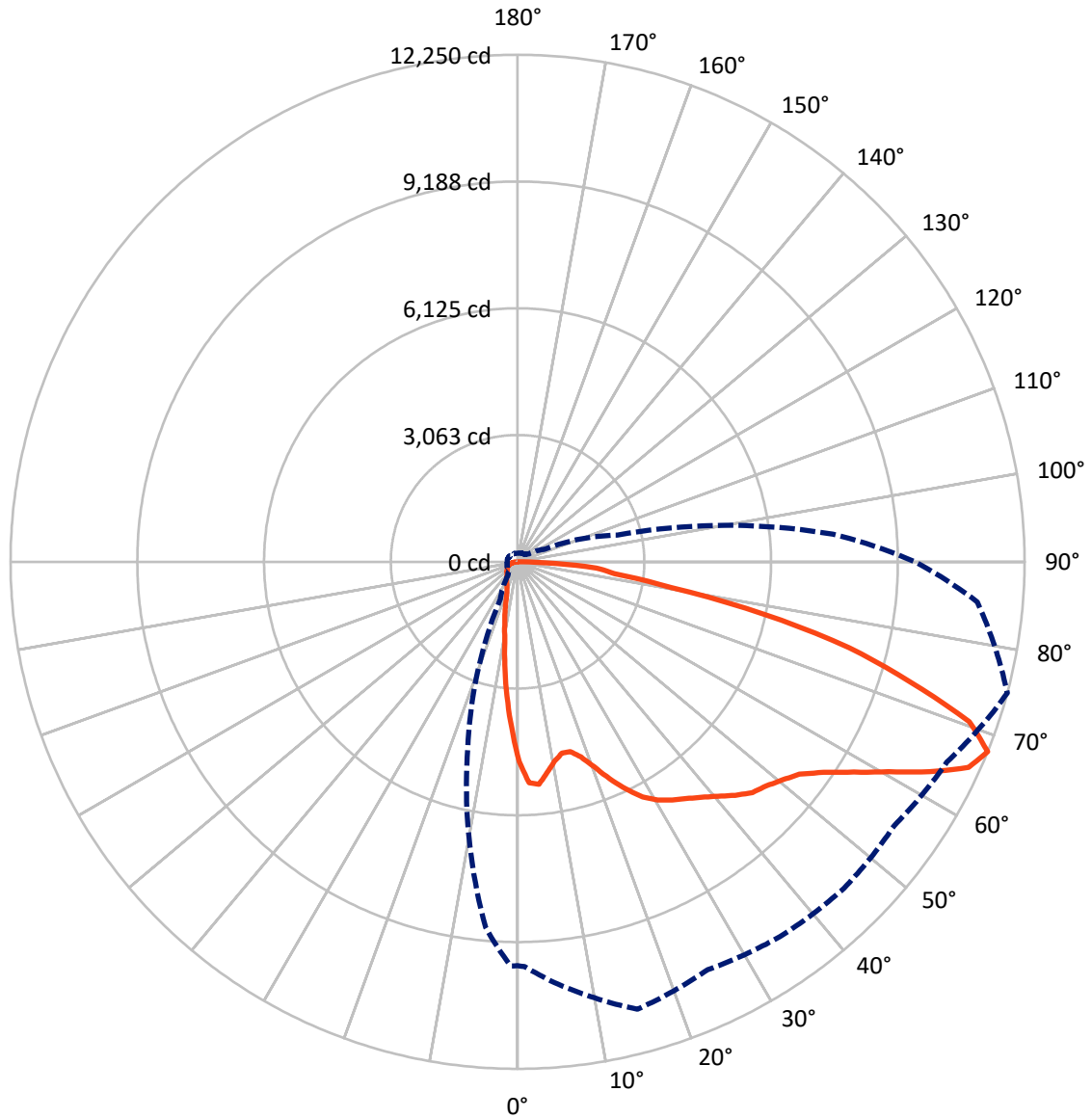
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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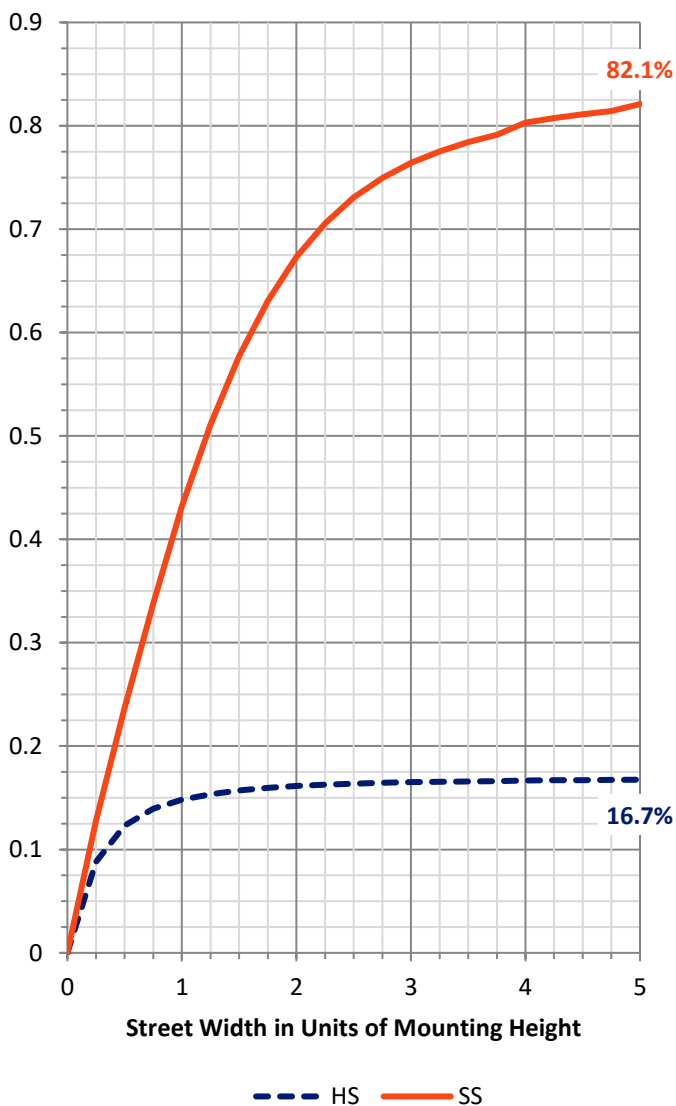
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2612.6	0.0	2612.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	12844.6	0.0	12844.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	15457.2	0.0	15457.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.3	2.4
10°-20°	763.9	4.9
20°-30°	1099.3	7.1
30°-40°	1583.2	10.2
40°-50°	2224.0	14.4
50°-60°	3101.7	20.1
60°-70°	3687.7	23.9
70°-80°	2171.9	14.1
80°-90°	459.3	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°	15457.2	100.0
0°-180°	15457.2	100.0

Coefficient of Utilization

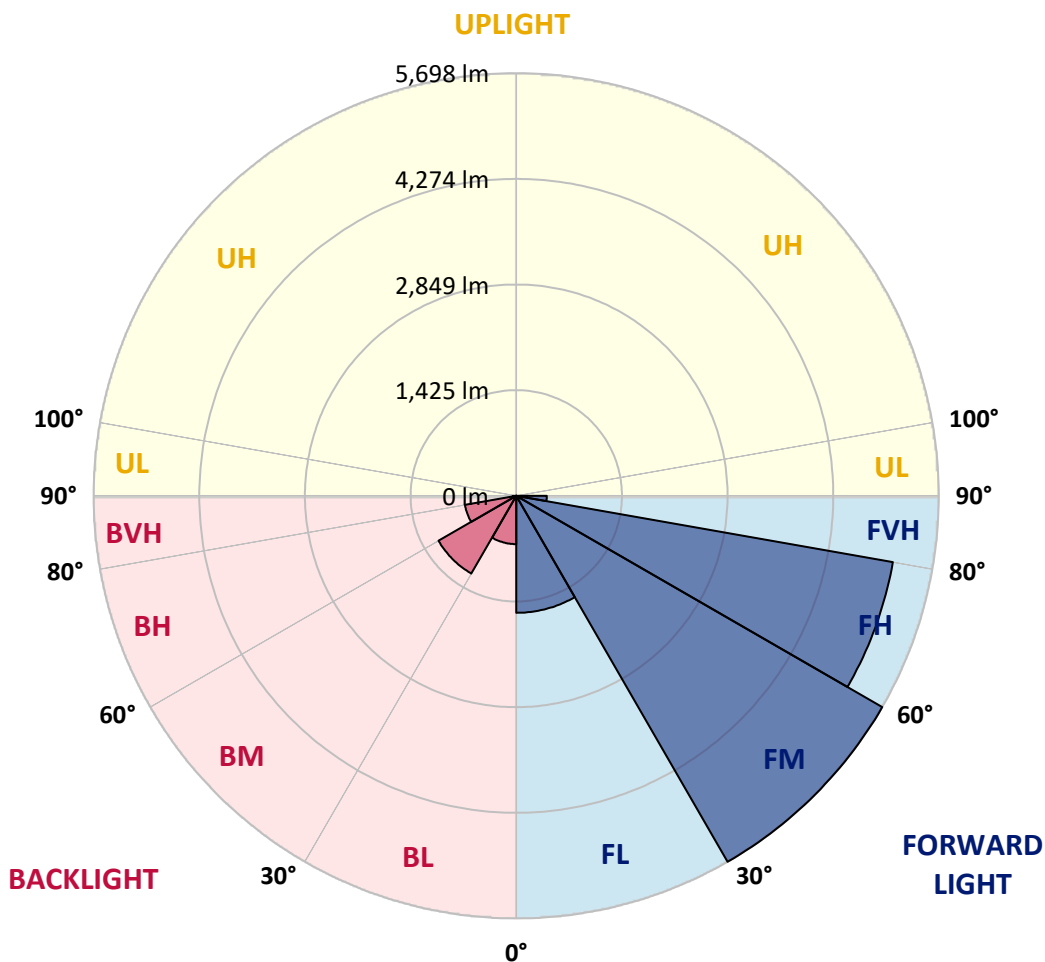


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1577.8	10.2			
FM (30°-60°)	5698.5	36.9			
FH (60°-80°)	5156.6	33.4			G3/7500
FVH (80°-90°)	411.8	2.7			G3/500
BL (0°-30°)	651.7	4.2	B2/1000		
BM (30°-60°)	1210.4	7.8	B2/2500		
BH (60°-80°)	703.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	47.5	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°	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2
2.5°	5206.9	5213.8	5258.4	5388.2	5477.5	5510.1	5533.0	5490.3	5448.7	5347.6	5195.0
5°	5191.0	5231.6	5347.6	5639.0	5869.0	5968.1	5997.9	5870.0	5658.8	5399.2	5086.9
7.5°	4887.6	4942.2	5120.6	5609.3	6014.7	6246.6	6215.9	5984.9	5604.3	5141.4	4705.3
10°	4527.9	4588.3	4803.4	5394.2	5916.6	6235.7	6235.7	5954.2	5448.7	4898.6	4396.0
12.5°	4242.4	4305.9	4551.7	5173.1	5712.4	6014.7	6065.3	5823.4	5336.7	4745.0	4192.8
15°	4148.3	4209.7	4474.4	5039.3	5496.3	5680.7	5697.5	5618.2	5282.2	4755.9	4183.9
17.5°	4265.2	4344.5	4612.1	5079.0	5298.0	5309.0	5321.8	5384.3	5288.1	4955.1	4364.3
20°	4603.2	4688.4	4968.0	5206.9	5124.6	5011.6	5018.5	5179.1	5358.5	5284.2	4795.5
22.5°	5090.9	5165.2	5451.7	5431.8	5051.2	4818.3	4769.7	4993.7	5462.6	5694.5	5254.4
25°	5617.2	5704.5	6033.5	5765.9	5072.0	4703.3	4672.6	4884.7	5570.7	6078.1	5784.7
27.5°	6219.8	6305.1	6564.8	6102.9	5181.1	4694.4	4657.8	4874.8	5667.7	6433.0	6291.2
30°	6667.9	6746.2	6922.7	6386.4	5314.9	4753.8	4708.3	4953.1	5751.1	6675.9	6784.9
32.5°	7019.8	7101.0	7197.2	6562.8	5491.3	4861.9	4777.6	5095.8	5860.1	6861.2	7150.6
35°	7386.5	7482.7	7475.8	6719.5	5655.8	4986.8	4904.6	5302.0	6031.5	7022.7	7614.5
37.5°	7851.4	7890.1	7840.5	6860.2	5853.1	5211.8	5166.2	5608.3	6275.4	7218.0	8156.7
40°	8323.2	8400.6	8145.8	7030.7	6093.0	5635.0	5630.1	6061.3	6564.8	7447.0	8682.1
42.5°	8727.6	8793.1	8431.3	7179.3	6383.4	6151.5	6189.1	6668.9	6944.4	7712.6	9104.3
45°	9032.0	9090.4	8694.9	7323.1	6766.1	6748.2	6970.2	7320.1	7423.2	7951.5	9352.1
47.5°	9290.7	9347.1	8878.3	7541.2	7238.8	7460.9	7847.5	7999.1	7832.6	8088.3	9629.6
50°	9508.8	9525.6	9004.2	7800.9	7825.6	8334.1	8708.8	8806.9	8237.0	8284.5	9870.5
52.5°	9735.7	9713.9	9221.2	8127.9	8460.0	9162.8	9435.4	9537.5	8624.6	8526.4	10221.4
55°	10244.2	10265.1	9707.9	8540.3	9101.4	9976.6	10335.4	10237.3	9053.8	8971.5	10667.4
57.5°	10858.7	10840.9	10392.9	9185.6	9754.5	10733.8	11001.5	10843.8	9626.7	9583.1	11119.5
60°	11097.6	11121.4	10965.8	9879.4	10398.9	11397.0	11670.5	11425.7	10313.6	10293.8	11460.5
62.5°	10857.8	10991.6	11096.7	10497.0	10948.0	11884.7	12156.2	11876.7	11030.2	11174.0	11699.3
65°	10380.0	10408.7	10766.6	11020.3	11212.6	11964.9	12106.7	11958.0	11629.0	11975.8	11688.4
67.5°	9759.5	9784.3	10203.6	11191.8	10871.6	11053.1	11152.2	11108.6	11443.5	12250.4	11150.2
70°	9168.7	9148.9	9592.0	10754.7	9464.1	9188.6	9270.8	9134.0	9874.5	11579.4	10094.5
72.5°	8018.9	8090.3	8566.1	9539.4	7493.5	7045.5	7225.0	6871.1	7594.7	9917.1	8193.4
75°	6281.3	6298.1	7092.1	8006.0	5652.9	4946.1	5189.0	5041.3	5817.5	8272.7	5657.9
77.5°	4349.5	4311.7	5165.2	6114.8	4031.3	3620.9	3624.9	3554.5	4062.0	6091.0	3843.9
80°	2762.5	2705.0	3233.3	3777.5	2770.4	2963.7	2866.6	2863.6	2644.6	3757.7	2324.4
82.5°	1492.8	1556.2	2042.9	2368.0	1987.4	2290.7	2099.4	2037.9	1814.9	2352.1	1486.8
85°	680.0	739.5	1089.3	1610.7	1509.6	1526.5	1019.9	1203.3	1501.7	1910.1	794.0
87.5°	66.4	85.3	225.0	760.3	515.4	406.4	151.7	292.4	377.6	679.0	63.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2
2.5°	5132.5	5081.0	4905.5	4760.8	4607.2	4490.2	4337.6	4235.5	4165.1	4059.0	4046.2
5°	4896.6	4770.7	4465.4	4154.2	3885.6	3683.4	3478.2	3289.9	3178.8	3144.1	3099.5
7.5°	4499.1	4287.0	3894.5	3537.7	3229.4	2928.0	2696.1	2531.6	2421.5	2357.1	2279.8
10°	4172.1	3926.2	3448.4	3011.3	2757.6	2570.2	2366.0	2189.6	2053.8	1937.8	1874.4
12.5°	3952.0	3674.5	3137.2	2782.3	2586.1	2386.8	2147.9	1949.7	1749.5	1617.7	1561.1
15°	3885.6	3592.2	3041.0	2668.4	2386.8	2126.2	1858.5	1599.8	1401.6	1276.7	1235.0
17.5°	4048.1	3693.3	3040.1	2516.7	2152.9	1841.7	1498.7	1255.9	1052.7	959.5	929.7
20°	4351.4	3887.5	3049.0	2367.0	1899.2	1461.1	1090.3	891.1	794.0	754.3	739.5
22.5°	4774.7	4183.9	3075.7	2219.3	1621.6	1122.0	816.7	715.7	681.0	674.0	671.0
25°	5296.1	4550.6	3165.9	2086.5	1387.7	856.4	682.9	637.4	617.6	610.6	609.6
27.5°	5775.8	5024.4	3275.0	1972.5	1161.7	738.4	617.6	578.9	559.1	558.0	560.0
30°	6209.0	5420.9	3366.2	1844.7	990.3	656.2	574.9	536.3	517.4	516.4	522.3
32.5°	6583.6	5747.1	3433.5	1718.8	895.0	605.7	536.3	494.6	478.7	475.8	478.7
35°	6984.1	6072.2	3402.8	1620.7	840.6	564.0	507.5	466.8	448.0	439.1	439.1
37.5°	7441.1	6407.2	3350.3	1539.4	815.8	529.3	482.7	443.1	424.2	415.3	414.4
40°	7939.6	6742.3	3278.0	1467.0	791.0	508.5	465.9	424.2	401.4	392.5	390.6
42.5°	8379.7	7028.7	3218.4	1419.4	750.3	512.5	451.0	410.4	381.6	369.7	368.7
45°	8762.3	7317.1	3207.6	1391.6	716.7	506.5	447.0	399.5	365.7	352.9	350.9
47.5°	9061.7	7617.5	3270.0	1375.8	680.0	474.8	472.8	392.5	351.9	338.0	336.0
50°	9426.5	8043.7	3412.8	1343.1	646.3	445.1	499.6	391.5	341.0	323.1	318.2
52.5°	9912.2	8598.7	3606.0	1284.6	597.7	417.3	476.8	391.5	328.1	310.2	304.3
55°	10646.6	9306.5	3795.4	1202.4	529.3	380.6	430.2	379.6	309.3	293.4	289.4
57.5°	11133.3	9823.9	3916.3	1088.4	444.0	353.8	370.8	360.8	290.4	273.6	273.6
60°	11158.1	9962.7	3858.8	944.6	390.6	329.1	322.1	363.8	273.6	255.7	253.8
62.5°	10872.7	9622.7	3559.4	815.8	361.8	302.3	291.4	319.2	256.7	238.9	235.9
65°	10426.6	8755.4	3040.1	754.3	345.9	278.5	262.7	261.7	238.9	222.1	218.1
67.5°	9606.9	7651.2	2497.8	718.6	338.0	251.7	236.9	231.9	218.1	204.2	202.2
70°	8398.5	6408.2	2003.2	703.8	334.0	224.0	212.1	206.2	194.3	183.4	182.4
72.5°	6534.1	5197.9	1653.4	693.8	332.1	198.3	185.3	177.4	170.5	160.6	160.6
75°	4693.4	3824.1	1261.8	625.5	307.2	170.5	156.6	151.7	141.7	133.8	135.8
77.5°	2958.8	2575.2	830.6	459.9	237.9	136.8	124.9	121.9	114.0	103.1	110.0
80°	1998.3	1810.9	484.7	289.4	149.7	100.1	96.2	95.1	86.2	74.3	75.3
82.5°	1359.9	1334.2	251.7	164.5	86.2	58.5	56.5	58.5	48.5	39.6	39.6
85°	531.3	725.6	118.9	64.4	27.7	8.9	12.9	13.9	7.9	4.0	4.9
87.5°	9.9	74.3	3.0	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°	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2
2.5°	4026.3	4017.4	4032.3	3968.8	3981.7	4005.5	4017.4	4024.3	4122.5	4099.6	4162.1
5°	3141.2	3132.2	3189.7	3197.7	3227.4	3221.4	3250.2	3257.1	3292.8	3305.7	3392.9
7.5°	2284.7	2323.4	2388.9	2422.5	2473.1	2488.9	2474.0	2510.8	2436.4	2489.9	2505.8
10°	1835.7	1789.2	1761.4	1838.7	1848.6	1922.0	1892.2	1868.5	1912.1	1914.0	1955.7
12.5°	1528.4	1428.3	1362.0	1383.7	1407.5	1439.2	1444.2	1491.8	1523.5	1553.2	1578.0
15°	1198.4	1163.7	1103.2	1073.5	1107.2	1120.1	1150.8	1190.5	1224.1	1233.1	1266.7
17.5°	919.9	925.8	915.9	898.0	918.9	928.8	930.8	931.8	940.7	934.7	984.3
20°	740.4	761.2	786.1	790.0	796.9	801.9	792.9	759.3	760.3	781.0	796.9
22.5°	670.1	674.0	701.8	710.7	732.5	723.6	697.8	682.0	680.0	684.9	692.9
25°	614.6	620.5	640.3	654.2	671.0	655.2	636.3	621.5	619.5	624.4	632.4
27.5°	565.0	573.9	591.8	605.7	621.5	606.6	588.8	575.9	574.9	573.9	578.9
30°	525.3	535.3	548.2	564.0	574.9	562.0	545.2	538.2	537.2	535.3	537.2
32.5°	485.7	501.6	514.4	522.3	533.3	523.4	510.4	506.5	499.6	493.6	490.6
35°	441.1	458.0	477.8	487.7	498.6	488.7	479.7	462.9	451.0	450.0	452.0
37.5°	415.3	422.3	438.1	455.0	465.9	461.0	444.0	427.2	424.2	424.2	426.2
40°	392.5	395.5	402.5	424.2	444.0	429.2	408.4	403.4	403.4	402.5	403.4
42.5°	369.7	372.7	372.7	389.5	421.3	397.5	381.6	381.6	381.6	382.6	385.5
45°	348.9	349.9	348.9	360.8	390.6	370.8	359.8	362.8	364.8	366.8	368.7
47.5°	331.1	332.1	331.1	341.0	355.9	347.9	341.9	345.9	349.9	352.9	354.9
50°	315.2	314.2	316.2	322.1	329.1	331.1	327.1	333.0	335.0	339.0	344.0
52.5°	301.3	300.4	302.3	305.3	315.2	315.2	315.2	320.2	324.2	328.1	335.0
55°	285.5	286.5	289.4	293.4	306.3	304.3	305.3	309.3	313.2	319.2	323.1
57.5°	270.6	272.6	276.6	282.5	295.3	294.4	295.3	297.4	302.3	305.3	309.3
60°	253.8	257.7	262.7	266.6	279.5	278.5	283.5	287.4	290.4	290.4	292.4
62.5°	236.9	242.9	247.8	250.8	264.7	265.7	272.6	275.5	277.6	275.5	278.5
65°	220.0	228.9	231.0	234.9	248.8	249.8	257.7	264.7	262.7	260.7	265.7
67.5°	203.2	214.1	213.1	218.1	231.9	234.0	240.9	252.8	248.8	246.8	250.8
70°	184.4	192.3	193.3	196.3	215.1	212.1	223.0	234.0	231.0	231.9	231.9
72.5°	163.6	170.5	170.5	176.4	196.3	191.3	200.2	212.1	212.1	211.1	211.1
75°	138.7	142.7	146.7	155.6	176.4	170.5	176.4	187.4	189.3	187.4	187.4
77.5°	112.0	117.9	120.0	131.9	146.7	145.7	151.7	156.6	160.6	158.6	158.6
80°	79.3	85.3	93.2	106.1	114.9	117.9	120.9	124.9	126.8	126.8	128.9
82.5°	44.6	53.6	60.4	73.4	77.3	92.2	91.2	94.2	91.2	80.3	89.2
85°	9.9	18.9	26.8	33.7	38.7	53.6	56.5	63.4	52.5	48.5	48.5
87.5°	0.0	0.0	0.0	0.0	0.0	7.9	15.9	21.8	18.9	15.9	15.9
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°	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2
2.5°	4214.7	4300.9	4404.9	4584.4	4710.2	4846.1	4982.9	5128.6	5167.2	5206.9
5°	3416.7	3586.2	3678.4	3919.2	4172.1	4493.2	4755.9	5043.3	5163.3	5191.0
7.5°	2588.0	2703.1	2944.9	3188.8	3502.0	3839.0	4241.4	4689.5	4829.2	4887.6
10°	2051.9	2208.5	2420.6	2682.2	2956.8	3319.6	3773.6	4296.9	4495.1	4527.9
12.5°	1746.5	1921.0	2151.9	2428.5	2688.2	2961.8	3419.7	3959.9	4172.1	4242.4
15°	1396.6	1607.7	1874.4	2165.8	2448.3	2747.6	3211.6	3821.1	4066.0	4148.3
17.5°	1097.3	1267.8	1556.2	1872.4	2207.4	2586.1	3167.9	3887.5	4188.9	4265.2
20°	839.5	961.4	1204.3	1538.4	1930.9	2426.5	3178.8	4138.3	4499.1	4603.2
22.5°	725.6	788.0	935.7	1253.9	1693.0	2287.7	3223.5	4482.3	4917.4	5090.9
25°	657.2	689.9	773.1	981.3	1466.0	2152.9	3325.6	4945.2	5502.2	5617.2
27.5°	598.7	622.5	674.0	823.7	1259.8	2028.0	3444.5	5458.6	6048.4	6219.8
30°	543.2	574.9	623.5	731.5	1128.0	1914.0	3594.1	5874.9	6508.3	6667.9
32.5°	500.6	532.3	576.9	667.1	1016.0	1794.1	3683.4	6240.7	6884.0	7019.8
35°	465.9	492.7	539.3	615.5	930.8	1702.9	3665.5	6531.1	7247.8	7386.5
37.5°	441.1	463.8	510.4	567.0	866.3	1607.7	3656.6	6914.7	7690.9	7851.4
40°	418.3	442.1	484.7	535.3	801.9	1495.8	3661.5	7295.4	8162.6	8323.2
42.5°	400.4	427.2	461.9	526.3	735.5	1405.6	3661.5	7626.4	8573.0	8727.6
45°	385.5	414.4	448.0	525.3	682.9	1337.1	3636.8	7910.9	8900.1	9032.0
47.5°	372.7	404.4	453.0	507.5	670.1	1287.6	3615.0	8138.9	9166.7	9290.7
50°	363.8	401.4	481.7	486.7	674.0	1272.7	3720.0	8426.3	9401.6	9508.8
52.5°	356.8	402.5	480.8	455.9	667.1	1282.6	3939.1	8875.3	9727.8	9735.7
55°	343.0	401.4	455.9	421.3	638.4	1299.5	4220.6	9527.5	10238.3	10244.2
57.5°	329.1	390.6	423.2	391.5	579.9	1299.5	4559.6	10145.1	10853.8	10858.7
60°	315.2	406.4	371.7	365.7	503.5	1275.7	4917.4	10416.6	11047.1	11097.6
62.5°	301.3	409.4	332.1	343.0	448.0	1218.2	5184.1	10116.4	10785.4	10857.8
65°	285.5	330.1	306.3	319.2	419.3	1122.0	5099.8	9566.2	10293.8	10380.0
67.5°	266.6	279.5	278.5	294.4	409.4	980.3	4655.7	8870.4	9764.5	9759.5
70°	243.8	250.8	253.8	270.6	390.6	870.3	3879.6	7967.4	9057.7	9168.7
72.5°	220.0	226.0	228.9	243.8	371.7	807.8	3011.3	6723.4	7845.4	8018.9
75°	194.3	198.3	202.2	215.1	351.9	715.7	2145.0	5132.5	6008.7	6281.3
77.5°	167.5	167.5	172.5	185.3	296.4	590.8	1439.2	3600.1	4070.9	4349.5
80°	135.8	136.8	134.8	148.7	218.1	404.4	817.8	2404.7	2709.0	2762.5
82.5°	104.1	101.1	102.1	109.1	162.6	275.5	436.1	1493.7	1522.5	1492.8
85°	65.5	65.5	63.4	71.3	104.1	143.8	237.9	914.9	714.6	680.0
87.5°	26.8	21.8	24.7	28.7	49.6	58.5	93.2	188.3	72.3	66.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)