

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: P647502

Luminaire Tested: **GALN-SA6D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647502
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-SA6D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 30961.4 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

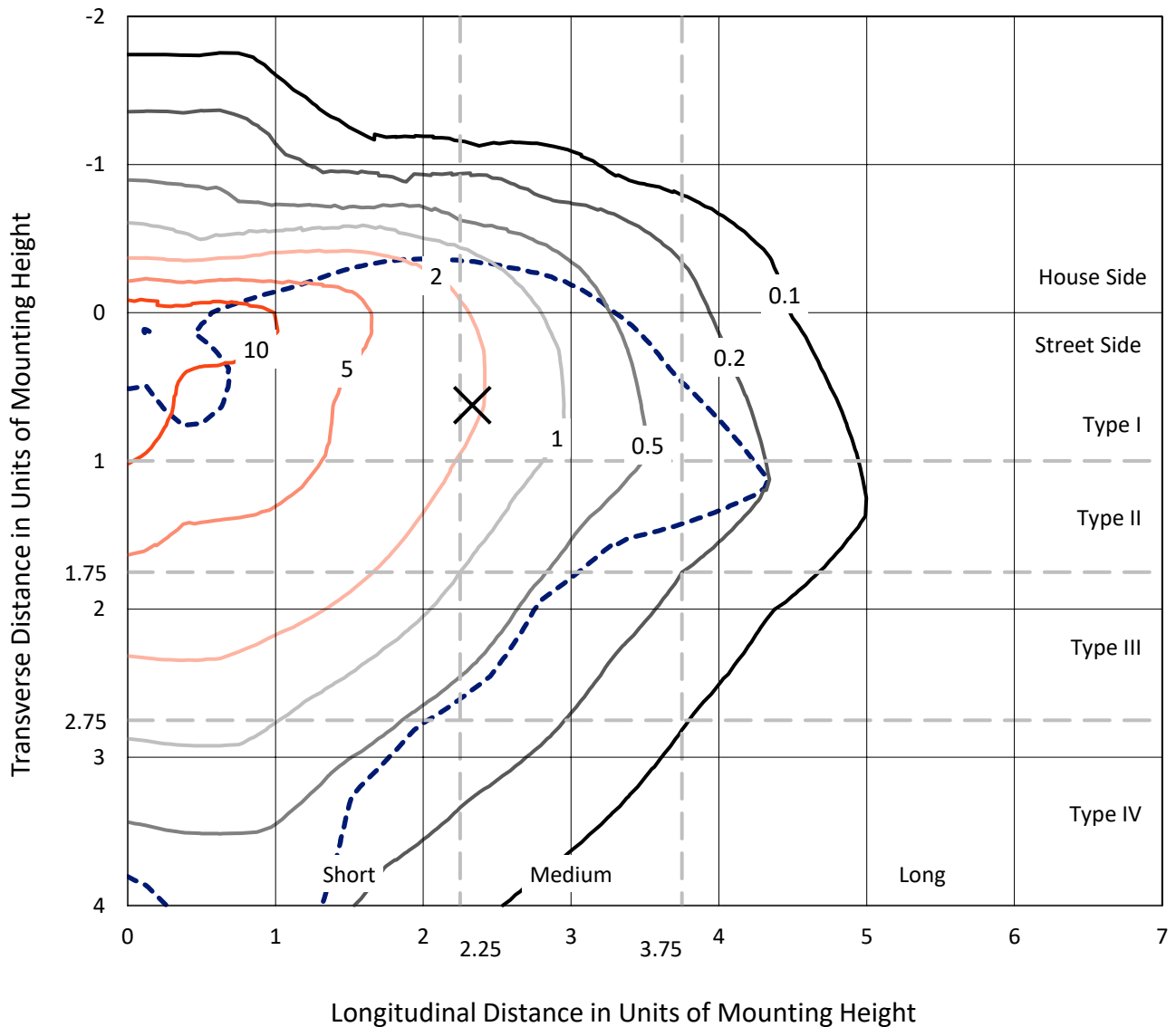
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

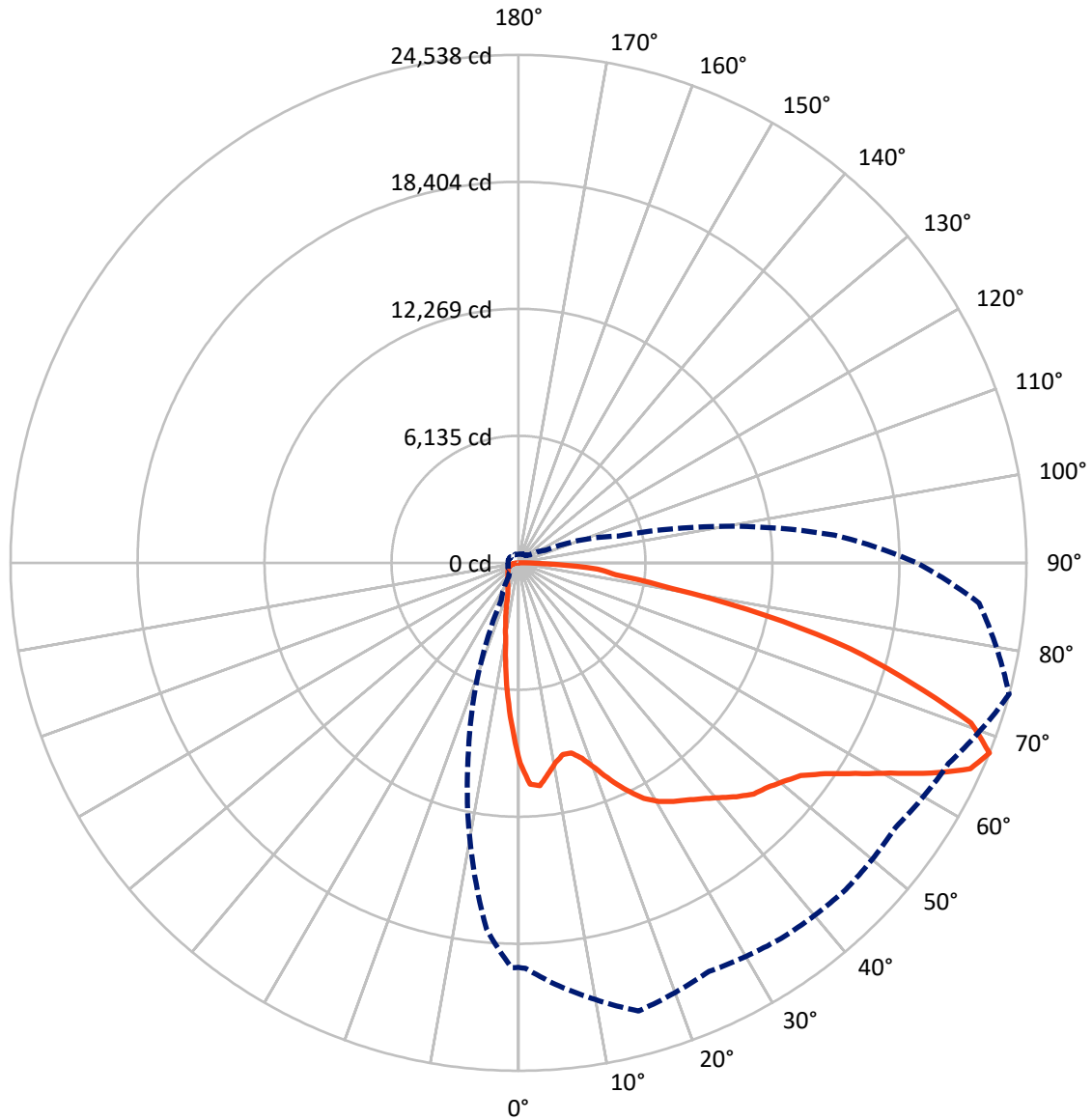
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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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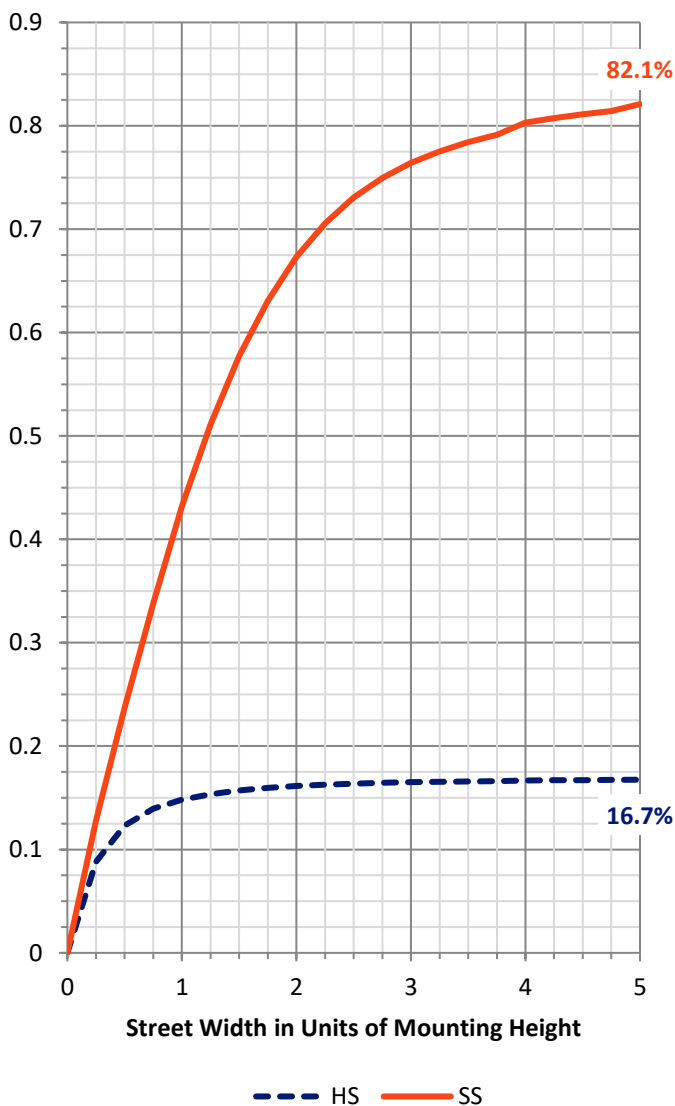
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5233.1	0.0	5233.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	25728.3	0.0	25728.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	30961.4	0.0	30961.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.7	2.4
10°-20°	1530.1	4.9
20°-30°	2201.8	7.1
30°-40°	3171.3	10.2
40°-50°	4454.8	14.4
50°-60°	6212.8	20.1
60°-70°	7386.6	23.9
70°-80°	4350.3	14.1
80°-90°	919.9	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°	30961.4	100.0
0°-180°	30961.4	100.0

Coefficient of Utilization

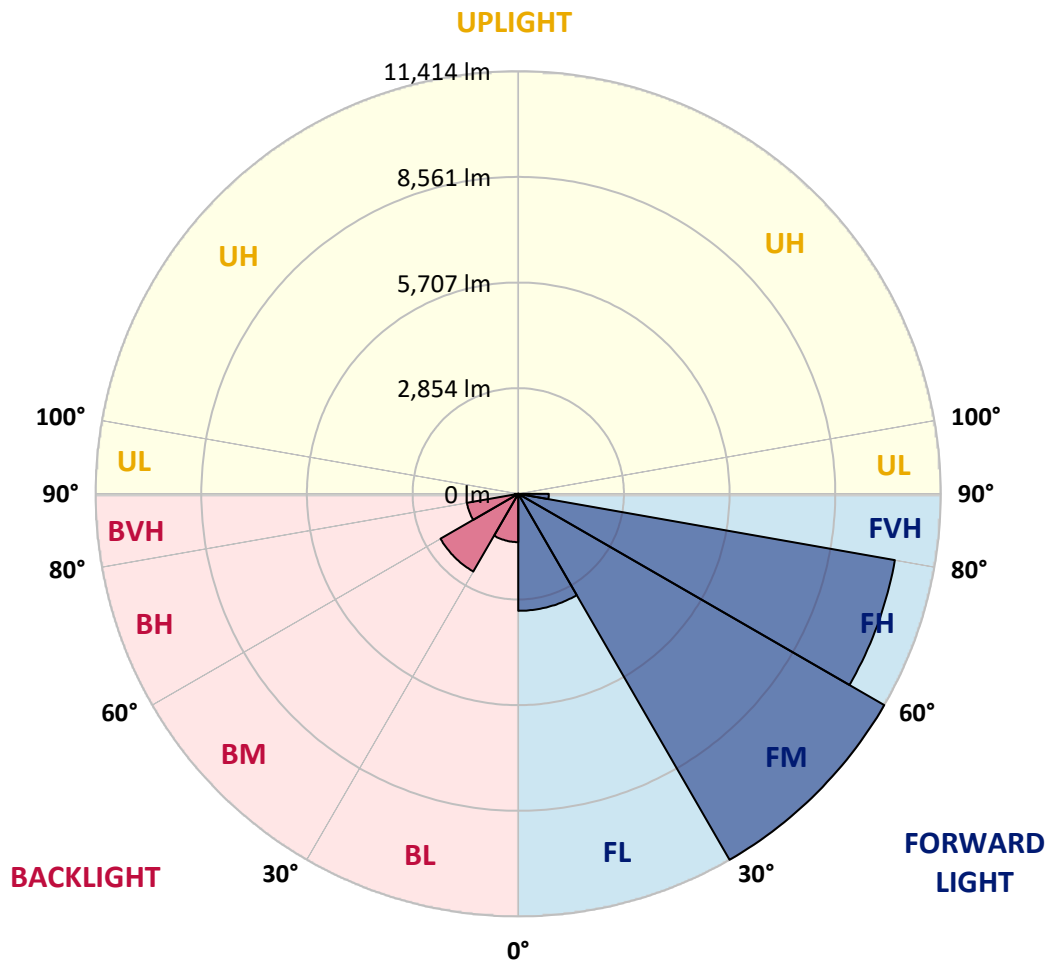


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3160.3	10.2			
FM (30°-60°)	11414.3	36.9			
FH (60°-80°)	10328.8	33.4			G4/12000
FVH (80°-90°)	824.8	2.7			G5
BL (0°-30°)	1305.3	4.2	B3/2500		
BM (30°-60°)	2424.5	7.8	B2/2500		
BH (60°-80°)	1408.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	95.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1
2.5°	10429.6	10443.4	10532.8	10792.9	10971.6	11037.1	11082.7	10997.4	10914.0	10711.4	10405.7
5°	10397.8	10479.1	10711.4	11295.2	11755.8	11954.4	12013.9	11757.8	11334.9	10814.7	10189.3
7.5°	9790.2	9899.4	10256.8	11235.6	12047.6	12512.3	12450.7	11988.1	11225.7	10298.5	9424.9
10°	9069.5	9190.6	9621.4	10804.8	11851.1	12490.4	12490.4	11926.6	10914.0	9812.1	8805.5
12.5°	8497.7	8624.7	9117.2	10362.0	11442.1	12047.6	12148.9	11664.4	10689.6	9504.3	8398.4
15°	8309.0	8432.2	8962.3	10094.0	11009.3	11378.6	11412.3	11253.5	10580.4	9526.1	8380.5
17.5°	8543.4	8702.2	9238.2	10173.4	10612.2	10634.0	10659.8	10784.9	10592.3	9925.2	8741.9
20°	9220.4	9391.1	9951.1	10429.6	10264.7	10038.4	10052.3	10374.0	10733.3	10584.4	9605.5
22.5°	10197.2	10346.2	10920.0	10880.3	10117.8	9651.3	9553.9	10002.7	10941.8	11406.4	10524.9
25°	11251.5	11426.2	12085.4	11549.3	10159.5	9420.9	9359.4	9784.3	11158.1	12174.7	11587.1
27.5°	12458.6	12629.4	13149.5	12224.4	10377.9	9403.0	9329.6	9764.4	11352.7	12885.5	12601.6
30°	13356.1	13512.9	13866.3	12792.2	10645.9	9522.1	9430.8	9921.2	11519.5	13371.9	13590.4
32.5°	14060.9	14223.7	14416.3	13145.6	10999.3	9738.6	9569.8	10207.2	11738.0	13743.2	14322.9
35°	14795.5	14988.1	14974.2	13459.3	11328.9	9988.7	9824.0	10620.1	12081.4	14066.8	15252.1
37.5°	15726.7	15804.2	15704.9	13741.3	11724.0	10439.4	10348.1	11233.6	12569.8	14458.0	16338.2
40°	16671.7	16826.6	16316.4	14082.7	12204.5	11287.3	11277.3	12141.0	13149.5	14916.6	17390.5
42.5°	17481.8	17612.9	16888.1	14380.6	12786.2	12321.7	12397.1	13358.1	13910.0	15448.7	18236.3
45°	18091.4	18208.5	17416.3	14668.4	13552.6	13516.9	13961.6	14662.5	14868.9	15927.2	18732.6
47.5°	18609.6	18722.7	17783.6	15105.2	14499.7	14944.4	15718.7	16022.5	15689.0	16201.2	19288.6
50°	19046.3	19080.1	18035.8	15625.4	15675.0	16693.6	17444.1	17640.7	16499.0	16594.4	19771.0
52.5°	19501.0	19457.3	18470.6	16280.6	16945.8	18353.4	18899.4	19103.9	17275.3	17078.8	20473.9
55°	20519.5	20561.3	19445.4	17106.6	18230.4	19983.5	20702.2	20505.7	18135.0	17970.2	21367.3
57.5°	21750.5	21714.8	20817.4	18399.1	19538.7	21500.3	22036.4	21720.7	19282.6	19195.2	22272.7
60°	22229.0	22276.7	21965.0	19788.9	20829.3	22828.6	23376.6	22886.2	20658.5	20618.8	22955.7
62.5°	21748.5	22016.6	22227.0	21025.8	21929.2	23805.5	24349.4	23789.6	22094.0	22381.9	23434.2
65°	20791.5	20849.1	21565.9	22074.1	22459.3	23966.3	24250.2	23952.4	23293.2	23988.1	23412.3
67.5°	19548.7	19598.3	20438.1	22417.6	21776.3	22139.6	22338.2	22250.8	22921.9	24538.0	22334.2
70°	18365.3	18325.6	19213.1	21542.1	18957.0	18405.0	18569.9	18295.8	19779.0	23193.9	20219.7
72.5°	16062.2	16205.2	17158.2	19107.9	15010.0	14112.5	14471.9	13763.1	15212.4	19864.3	16411.7
75°	12581.7	12615.5	14205.8	16036.4	11323.0	9907.4	10393.8	10098.0	11652.5	16570.5	11332.9
77.5°	8712.1	8636.6	10346.2	12248.2	8074.8	7252.9	7260.8	7119.8	8136.3	12200.5	7699.6
80°	5533.5	5418.3	6476.5	7566.5	5549.3	5936.5	5741.9	5735.9	5297.2	7526.8	4655.9
82.5°	2990.0	3117.1	4092.0	4743.3	3980.8	4588.4	4205.2	4082.1	3635.3	4711.5	2978.1
85°	1362.0	1481.1	2182.0	3226.4	3023.8	3057.6	2043.0	2410.3	3008.0	3826.0	1590.4
87.5°	133.0	170.8	450.7	1522.9	1032.5	814.0	303.8	585.7	756.5	1360.0	127.1
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°	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1
2.5°	10280.6	10177.4	9825.9	9536.1	9228.4	8994.1	8688.3	8483.8	8342.8	8130.4	8104.6
5°	9808.1	9556.0	8944.4	8321.0	7782.9	7377.9	6966.9	6589.6	6367.3	6297.8	6208.5
7.5°	9011.9	8587.0	7800.8	7086.1	6468.6	5865.0	5400.4	5070.8	4850.5	4721.4	4566.5
10°	8356.7	7864.3	6907.3	6031.8	5523.5	5148.2	4739.3	4385.8	4113.8	3881.6	3754.5
12.5°	7916.0	7360.0	6283.9	5573.2	5180.0	4780.9	4302.4	3905.4	3504.3	3240.2	3127.1
15°	7782.9	7195.2	6091.3	5344.8	4780.9	4258.7	3722.7	3204.5	2807.4	2557.3	2473.9
17.5°	8108.5	7397.8	6089.3	5041.0	4312.4	3688.9	3002.0	2515.5	2108.5	1921.9	1862.4
20°	8716.1	7786.9	6107.2	4741.2	3804.1	2926.5	2184.0	1784.9	1590.4	1511.0	1481.1
22.5°	9563.9	8380.5	6160.8	4445.4	3248.2	2247.5	1636.0	1433.5	1364.0	1350.1	1344.2
25°	10608.2	9115.1	6341.5	4179.3	2779.6	1715.4	1368.0	1276.6	1236.9	1223.0	1221.0
27.5°	11569.1	10064.2	6559.9	3951.0	2326.9	1479.2	1236.9	1159.5	1119.8	1117.8	1121.8
30°	12436.8	10858.4	6742.6	3694.9	1983.4	1314.3	1151.6	1074.1	1036.4	1034.4	1046.3
32.5°	13187.3	11511.6	6877.6	3442.8	1792.8	1213.1	1074.1	990.7	958.9	953.0	958.9
35°	13989.4	12162.8	6816.0	3246.2	1683.7	1129.7	1016.6	935.1	897.4	879.5	879.5
37.5°	14904.7	12833.9	6710.8	3083.4	1634.0	1060.3	966.9	887.5	849.8	831.9	829.9
40°	15903.4	13504.9	6565.8	2938.4	1584.4	1018.5	933.2	849.8	804.1	786.2	782.3
42.5°	16784.9	14078.7	6446.8	2843.2	1503.0	1026.4	903.3	822.0	764.4	740.6	738.6
45°	17551.3	14656.5	6424.9	2787.6	1435.5	1014.5	895.4	800.1	732.7	706.8	702.8
47.5°	18150.9	15258.1	6550.0	2755.8	1362.0	951.0	947.0	786.2	704.9	677.1	673.1
50°	18881.6	16111.9	6835.9	2690.3	1294.5	891.4	1000.7	784.3	683.0	647.2	637.4
52.5°	19854.4	17223.7	7223.0	2573.1	1197.2	835.9	955.0	784.3	657.2	621.5	609.6
55°	21325.6	18641.3	7602.2	2408.4	1060.3	762.4	861.7	760.4	619.4	587.7	579.7
57.5°	22300.5	19677.7	7844.5	2180.0	889.5	708.8	742.5	722.7	581.8	547.9	547.9
60°	22350.1	19955.7	7729.3	1892.1	782.3	659.1	645.3	728.7	547.9	512.2	508.2
62.5°	21778.3	19274.6	7129.7	1634.0	724.7	605.6	583.7	639.3	514.2	478.5	472.5
65°	20884.9	17537.4	6089.3	1511.0	693.0	557.9	526.2	524.1	478.5	444.7	436.8
67.5°	19242.9	15325.7	5003.3	1439.5	677.1	504.3	474.5	464.6	436.8	409.0	405.0
70°	16822.7	12835.9	4012.6	1409.6	669.1	448.7	424.9	413.0	389.2	367.3	365.3
72.5°	13088.0	10411.6	3311.7	1389.8	665.2	397.1	371.3	355.4	341.5	321.7	321.7
75°	9401.1	7659.9	2527.4	1252.8	615.5	341.5	313.7	303.8	283.9	268.0	272.0
77.5°	5926.5	5158.2	1663.8	921.3	476.5	274.0	250.2	244.2	228.3	206.5	220.4
80°	4002.6	3627.4	970.8	579.7	299.8	200.5	192.6	190.6	172.7	148.9	150.9
82.5°	2724.1	2672.4	504.3	329.6	172.7	117.1	113.1	117.1	97.2	79.4	79.4
85°	1064.2	1453.3	238.3	129.0	55.6	17.9	25.8	27.8	15.9	7.9	9.9
87.5°	19.9	148.9	6.0	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°	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1
2.5°	8064.9	8047.0	8076.8	7949.7	7975.5	8023.2	8047.0	8060.9	8257.4	8211.8	8336.8
5°	6291.9	6274.0	6389.1	6405.0	6464.6	6452.7	6510.3	6524.2	6595.6	6621.4	6796.1
7.5°	4576.5	4653.8	4784.9	4852.4	4953.6	4985.4	4955.7	5029.1	4880.2	4987.4	5019.2
10°	3677.0	3583.7	3528.1	3683.0	3702.9	3849.8	3790.2	3742.6	3829.9	3833.9	3917.3
12.5°	3061.5	2861.0	2728.0	2771.7	2819.3	2882.8	2892.8	2988.1	3051.6	3111.2	3160.8
15°	2400.4	2330.9	2209.8	2150.2	2217.8	2243.5	2305.1	2384.5	2452.0	2469.9	2537.4
17.5°	1842.5	1854.4	1834.6	1798.8	1840.5	1860.3	1864.3	1866.3	1884.2	1872.3	1971.5
20°	1483.2	1524.8	1574.5	1582.4	1596.3	1606.2	1588.3	1520.8	1522.9	1564.5	1596.3
22.5°	1342.1	1350.1	1405.7	1423.6	1467.3	1449.3	1397.7	1366.0	1362.0	1372.0	1387.8
25°	1231.0	1242.9	1282.6	1310.4	1344.2	1312.4	1274.6	1244.9	1240.9	1250.8	1266.7
27.5°	1131.7	1149.6	1185.3	1213.1	1244.9	1215.1	1179.4	1153.5	1151.6	1149.6	1159.5
30°	1052.3	1072.2	1097.9	1129.7	1151.6	1125.7	1092.0	1078.1	1076.1	1072.2	1076.1
32.5°	972.9	1004.7	1030.4	1046.3	1068.2	1048.3	1022.5	1014.5	1000.7	988.8	982.8
35°	883.5	917.3	957.0	976.9	998.6	978.8	961.0	927.2	903.3	901.4	905.4
37.5°	831.9	845.8	877.6	911.3	933.2	923.2	889.5	855.7	849.8	849.8	853.7
40°	786.2	792.2	806.1	849.8	889.5	859.7	818.0	808.1	808.1	806.1	808.1
42.5°	740.6	746.5	746.5	780.3	843.8	796.2	764.4	764.4	764.4	766.4	772.4
45°	698.9	700.9	698.9	722.7	782.3	742.5	720.8	726.7	730.6	734.6	738.6
47.5°	663.1	665.2	663.1	683.0	712.8	696.9	685.0	693.0	700.9	706.8	710.8
50°	631.3	629.4	633.4	645.3	659.1	663.1	655.2	667.1	671.1	679.0	689.0
52.5°	603.5	601.6	605.6	611.5	631.3	631.3	631.3	641.3	649.3	657.2	671.1
55°	571.8	573.8	579.7	587.7	613.5	609.6	611.5	619.4	627.4	639.3	647.2
57.5°	542.0	546.0	554.0	565.9	591.6	589.7	591.6	595.6	605.6	611.5	619.4
60°	508.2	516.2	526.2	534.1	559.9	557.9	567.8	575.7	581.8	581.8	585.7
62.5°	474.5	486.4	496.3	502.3	530.1	532.1	546.0	551.9	555.9	551.9	557.9
65°	440.8	458.6	462.6	470.6	498.4	500.3	516.2	530.1	526.2	522.2	532.1
67.5°	407.0	428.8	426.9	436.8	464.6	468.5	482.5	506.3	498.4	494.4	502.3
70°	369.3	385.2	387.2	393.1	430.8	424.9	446.7	468.5	462.6	464.6	464.6
72.5°	327.6	341.5	341.5	353.4	393.1	383.2	401.1	424.9	424.9	422.9	422.9
75°	278.0	285.9	293.9	311.7	353.4	341.5	353.4	375.2	379.2	375.2	375.2
77.5°	224.3	236.2	240.2	264.0	293.9	291.8	303.8	313.7	321.7	317.7	317.7
80°	158.9	170.8	186.7	212.4	230.3	236.2	242.3	250.2	254.2	254.2	258.1
82.5°	89.3	107.2	121.1	146.9	154.9	184.6	182.7	188.6	182.7	160.8	178.7
85°	19.9	37.7	53.6	67.5	77.4	107.2	113.1	127.1	105.2	97.2	97.2
87.5°	0.0	0.0	0.0	0.0	0.0	15.9	31.8	43.7	37.7	31.8	31.8
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°	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1	9673.1
2.5°	8442.1	8614.8	8823.3	9182.6	9434.8	9706.9	9980.8	10272.6	10350.1	10429.6
5°	6843.8	7183.3	7368.0	7850.4	8356.7	9000.0	9526.1	10102.0	10342.2	10397.8
7.5°	5184.0	5414.3	5898.7	6387.2	7014.6	7689.6	8495.7	9393.1	9673.1	9790.2
10°	4109.9	4423.6	4848.4	5372.6	5922.5	6649.2	7558.6	8606.9	9004.0	9069.5
12.5°	3498.4	3847.8	4310.4	4864.3	5384.5	5932.5	6849.8	7931.9	8356.7	8497.7
15°	2797.5	3220.4	3754.5	4338.2	4904.0	5503.6	6432.8	7653.9	8144.3	8309.0
17.5°	2197.9	2539.3	3117.1	3750.5	4421.6	5180.0	6345.4	7786.9	8390.5	8543.4
20°	1681.6	1925.9	2412.3	3081.4	3867.6	4860.4	6367.3	8289.2	9011.9	9220.4
22.5°	1453.3	1578.4	1874.3	2511.6	3391.1	4582.4	6456.6	8978.2	9849.7	10197.2
25°	1316.4	1381.8	1548.6	1965.6	2936.5	4312.4	6661.1	9905.3	11021.2	11251.5
27.5°	1199.2	1246.8	1350.1	1649.9	2523.5	4062.2	6899.4	10933.8	12115.1	12458.6
30°	1088.1	1151.6	1248.8	1465.2	2259.4	3833.9	7199.2	11767.7	13036.4	13356.1
32.5°	1002.6	1066.2	1155.6	1336.2	2035.1	3593.7	7377.9	12500.4	13788.9	14060.9
35°	933.2	986.7	1080.1	1233.0	1864.3	3411.0	7342.2	13082.1	14517.5	14795.5
37.5°	883.5	929.2	1022.5	1135.7	1735.3	3220.4	7324.3	13850.4	15405.1	15726.7
40°	837.9	885.5	970.8	1072.2	1606.2	2996.0	7334.2	14612.8	16350.1	16671.7
42.5°	802.1	855.7	925.2	1054.2	1473.2	2815.4	7334.2	15276.0	17172.1	17481.8
45°	772.4	829.9	897.4	1052.3	1368.0	2678.3	7284.6	15845.8	17827.3	18091.4
47.5°	746.5	810.1	907.3	1016.6	1342.1	2579.1	7240.9	16302.5	18361.4	18609.6
50°	728.7	804.1	964.9	974.8	1350.1	2549.3	7451.3	16878.3	18831.9	19046.3
52.5°	714.7	806.1	962.9	913.3	1336.2	2569.2	7890.1	17777.6	19485.1	19501.0
55°	686.9	804.1	913.3	843.8	1278.6	2602.9	8454.0	19084.1	20507.6	20519.5
57.5°	659.1	782.3	847.8	784.3	1161.5	2602.9	9133.1	20321.0	21740.5	21750.5
60°	631.3	814.0	744.6	732.7	1008.6	2555.2	9849.7	20865.0	22127.7	22229.0
62.5°	603.5	820.0	665.2	686.9	897.4	2440.1	10383.8	20263.4	21603.6	21748.5
65°	571.8	661.2	613.5	639.3	839.8	2247.5	10215.1	19161.5	20618.8	20791.5
67.5°	534.1	559.9	557.9	589.7	820.0	1963.6	9325.6	17767.7	19558.6	19548.7
70°	488.4	502.3	508.2	542.0	782.3	1743.2	7771.0	15958.9	18143.0	18365.3
72.5°	440.8	452.7	458.6	488.4	744.6	1618.1	6031.8	13467.3	15714.7	16062.2
75°	389.2	397.1	405.0	430.8	704.9	1433.5	4296.5	10280.6	12035.7	12581.7
77.5°	335.5	335.5	345.5	371.3	593.7	1183.3	2882.8	7211.1	8154.2	8712.1
80°	272.0	274.0	270.1	297.9	436.8	810.1	1638.0	4816.7	5426.2	5533.5
82.5°	208.4	202.5	204.5	218.4	325.6	551.9	873.6	2992.1	3049.6	2990.0
85°	131.1	131.1	127.1	143.0	208.4	287.9	476.5	1832.5	1431.5	1362.0
87.5°	53.6	43.7	49.6	57.6	99.3	117.1	186.7	377.2	144.9	133.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)