

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: P648657

Luminaire Tested: **GALN-SA9B-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648657
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-SA9B-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 34816.1 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

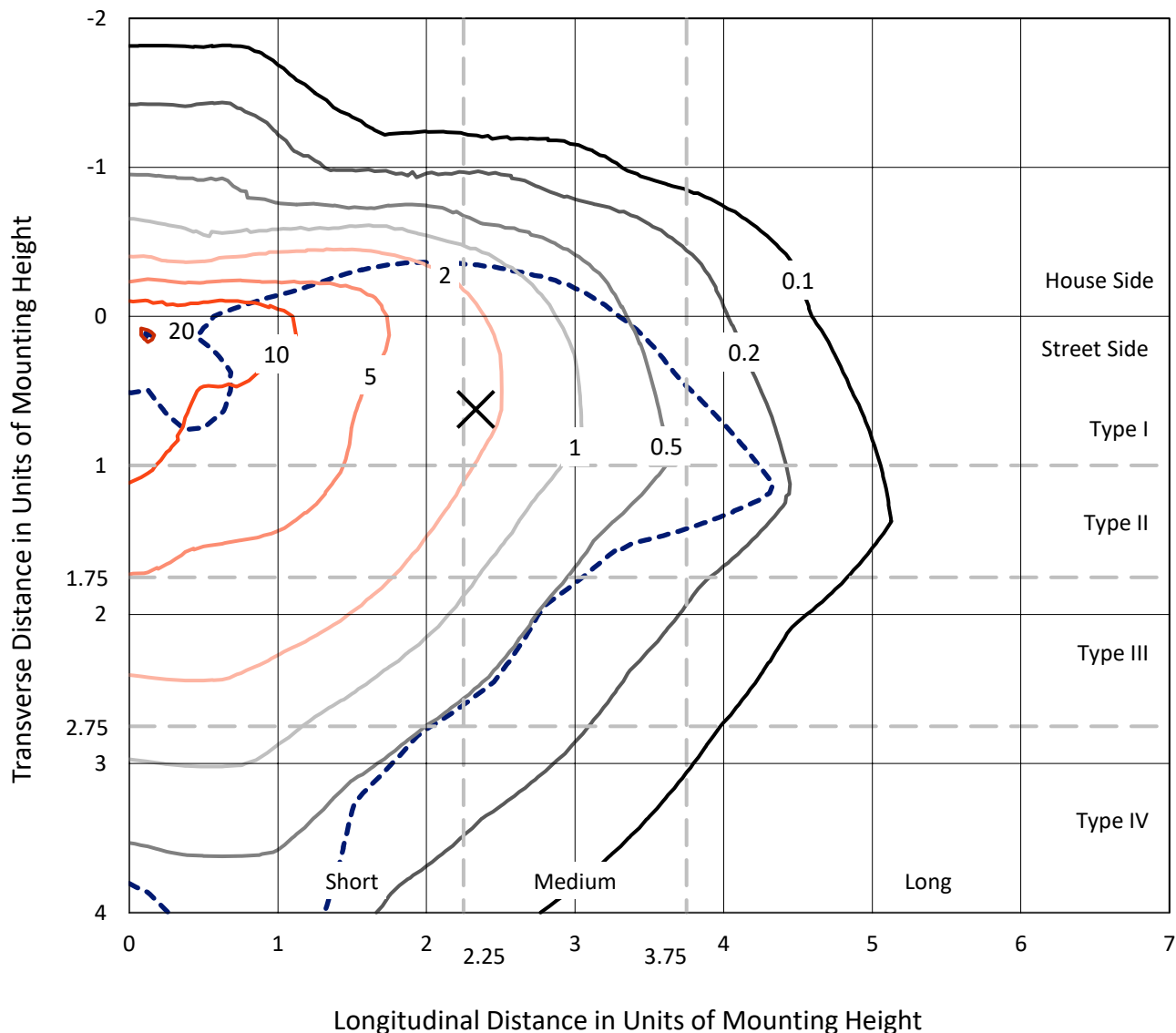
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

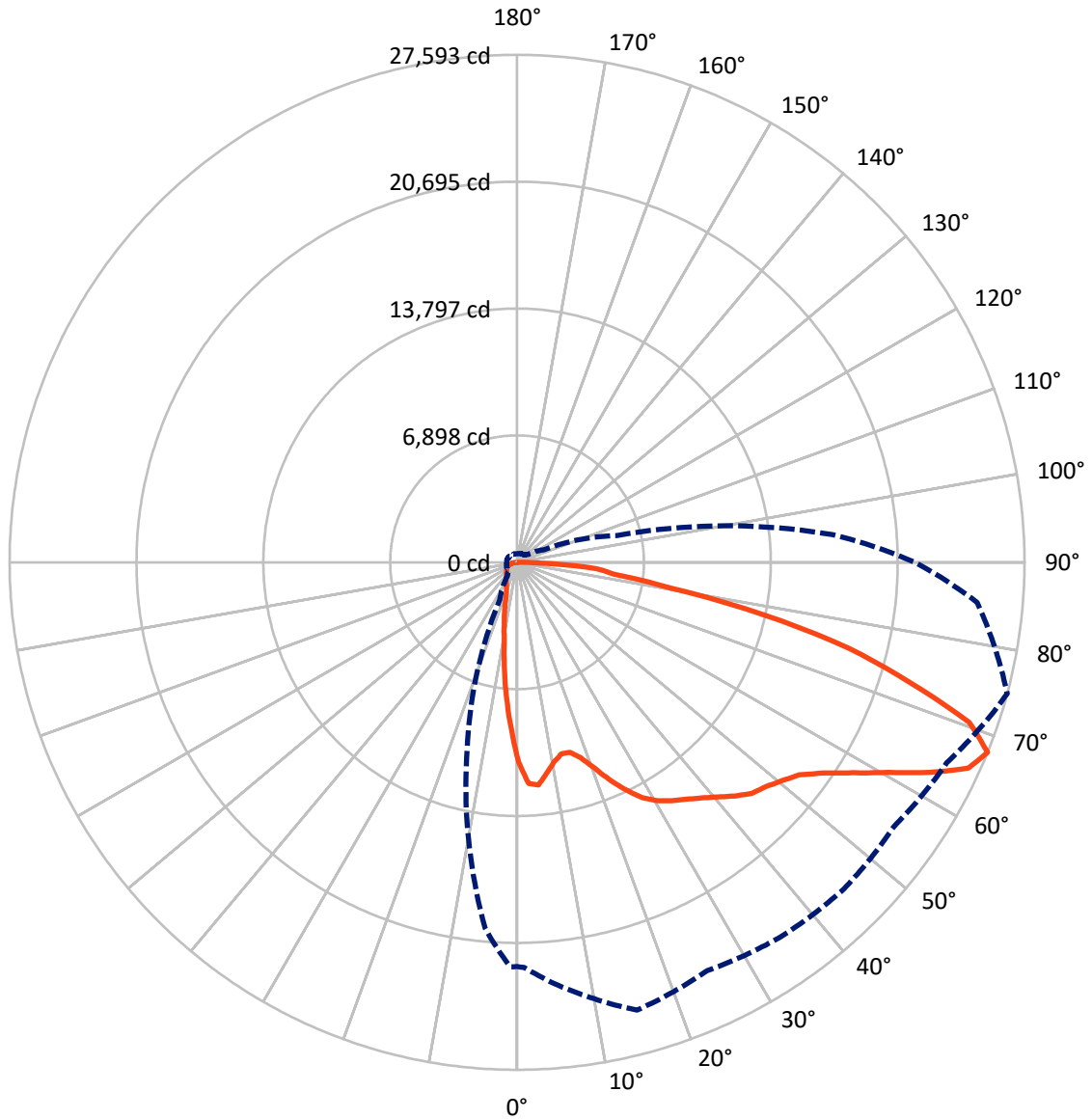
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 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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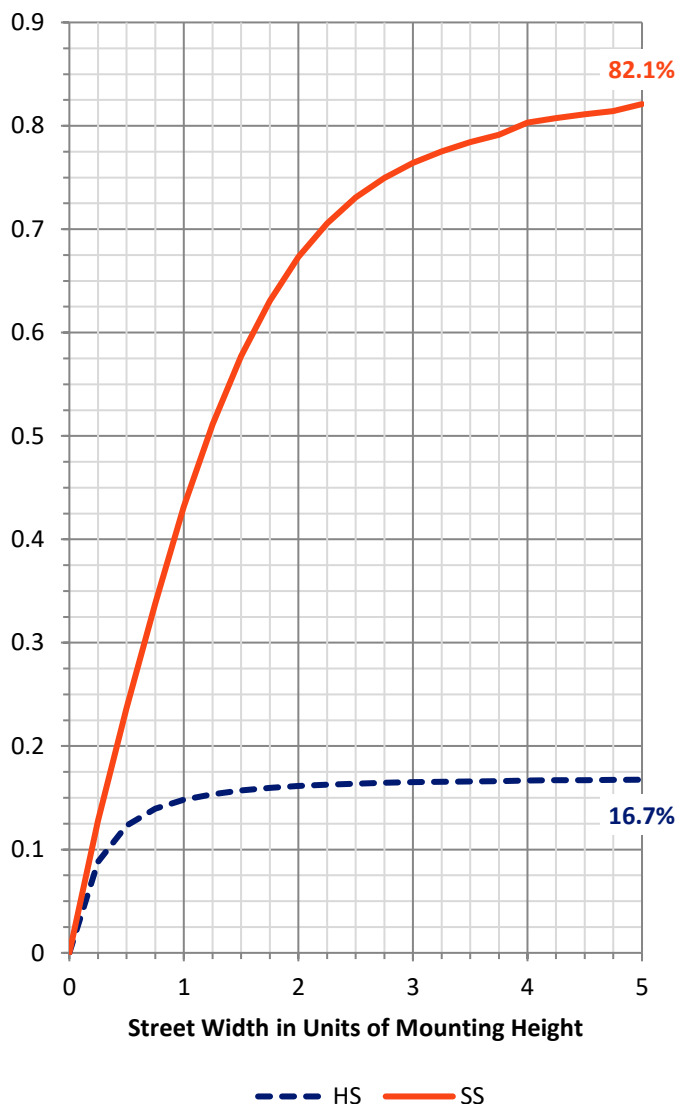
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5884.7	0.0	5884.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	28931.4	0.0	28931.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	34816.1	0.0	34816.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.0	2.4
10°-20°	1720.6	4.9
20°-30°	2476.0	7.1
30°-40°	3566.1	10.2
40°-50°	5009.4	14.4
50°-60°	6986.3	20.1
60°-70°	8306.3	23.9
70°-80°	4891.9	14.1
80°-90°	1034.5	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°	34816.1	100.0
0°-180°	34816.1	100.0

Coefficient of Utilization

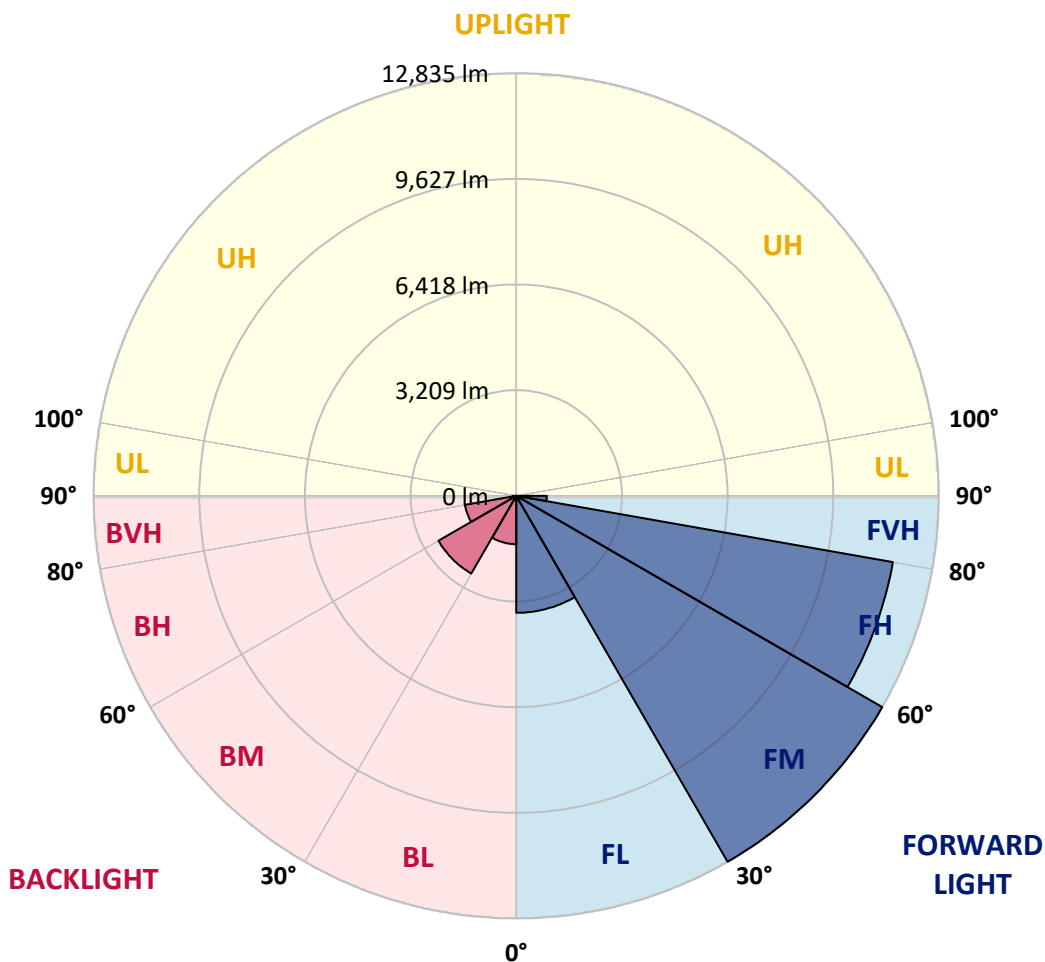


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3553.8	10.2			
FM (30°-60°)	12835.4	36.9			
FH (60°-80°)	11614.8	33.4			G4/12000
FVH (80°-90°)	927.5	2.7			G5
BL (0°-30°)	1467.8	4.2	B3/2500		
BM (30°-60°)	2726.4	7.8	B3/5000		
BH (60°-80°)	1583.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	107.0	0.3			G2/225
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°	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4
2.5°	11728.0	11743.7	11844.1	12136.6	12337.5	12411.2	12462.5	12366.5	12272.7	12045.0	11701.2
5°	11692.3	11783.8	12045.0	12701.4	13219.4	13442.7	13509.6	13221.7	12746.1	12161.2	11457.9
7.5°	11009.1	11131.9	11533.7	12634.5	13547.6	14070.0	14000.8	13480.6	12623.3	11580.6	10598.3
10°	10198.7	10334.8	10819.3	12150.0	13326.6	14045.5	14045.5	13411.4	12272.7	11033.6	9901.7
12.5°	9555.7	9698.6	10252.2	11652.1	12866.6	13547.6	13661.5	13116.7	12020.5	10687.6	9444.0
15°	9343.5	9482.0	10078.1	11350.7	12379.9	12795.2	12833.1	12654.5	11897.7	10712.1	9424.0
17.5°	9607.0	9785.6	10388.5	11440.0	11933.4	11958.0	11987.0	12127.7	11911.1	11160.9	9830.3
20°	10368.3	10560.3	11189.9	11728.0	11542.7	11288.2	11303.8	11665.5	12069.6	11902.1	10801.5
22.5°	11466.8	11634.2	12279.5	12234.8	11377.5	10852.8	10743.4	11248.0	12304.0	12826.5	11835.2
25°	12652.3	12848.8	13590.0	12987.2	11424.4	10593.8	10524.6	11002.4	12547.3	13690.5	13029.6
27.5°	14009.7	14201.7	14786.7	13746.3	11670.0	10573.7	10491.1	10980.1	12766.2	14489.7	14170.5
30°	15018.9	15195.3	15592.7	14384.8	11971.4	10707.7	10605.0	11156.4	12953.7	15036.7	15282.4
32.5°	15811.5	15994.6	16211.2	14782.3	12368.7	10951.0	10761.2	11477.9	13199.3	15454.2	16106.2
35°	16637.6	16854.2	16838.5	15135.0	12739.4	11232.4	11047.0	11942.3	13585.5	15818.2	17151.1
37.5°	17684.7	17771.8	17660.1	15452.0	13183.7	11739.2	11636.5	12632.2	14134.8	16258.0	18372.3
40°	18747.4	18921.5	18347.7	15836.0	13724.0	12692.5	12681.3	13652.5	14786.7	16773.7	19555.6
42.5°	19658.3	19805.7	18990.7	16170.9	14378.2	13855.7	13940.5	15021.2	15641.8	17372.1	20506.7
45°	20343.7	20475.4	19584.6	16494.7	15239.9	15199.8	15699.9	16487.9	16720.2	17910.2	21064.9
47.5°	20926.5	21053.7	19997.7	16985.9	16304.9	16805.0	17675.8	18017.3	17642.2	18218.3	21690.0
50°	21417.6	21455.6	20281.2	17570.8	17626.6	18772.0	19615.9	19836.9	18553.2	18660.3	22232.5
52.5°	21928.9	21879.8	20770.2	18307.6	19055.5	20638.4	21252.4	21482.4	19426.1	19205.1	23022.9
55°	23074.2	23121.1	21866.4	19236.4	20500.0	22471.4	23279.6	23058.6	20392.8	20207.5	24027.5
57.5°	24458.5	24418.2	23409.1	20689.8	21971.3	24177.2	24780.0	24425.0	21683.3	21585.0	25045.7
60°	24996.5	25050.1	24699.6	22252.6	23422.5	25670.8	26287.0	25735.5	23230.5	23185.9	25813.6
62.5°	24456.2	24757.6	24994.3	23643.5	24659.4	26769.2	27381.0	26751.4	24844.7	25168.4	26351.7
65°	23380.1	23444.8	24250.8	24822.4	25255.5	26950.1	27269.3	26934.4	26193.2	26974.7	26327.2
67.5°	21982.5	22038.3	22982.7	25208.6	24487.5	24896.0	25119.3	25021.1	25775.7	27593.1	25114.9
70°	20651.9	20607.2	21605.2	24224.1	21317.2	20696.5	20881.7	20573.7	22241.4	26081.6	22737.1
72.5°	18062.0	18222.8	19294.4	21486.9	16878.7	15869.5	16273.6	15476.6	17106.4	22337.4	18454.9
75°	14148.2	14186.2	15974.5	18033.0	12732.7	11140.8	11687.8	11355.1	13103.3	18633.5	12743.9
77.5°	9796.8	9711.9	11634.2	13773.1	9080.1	8155.8	8164.7	8006.2	9149.4	13719.5	8658.1
80°	6222.3	6092.8	7282.8	8508.5	6240.2	6675.5	6456.8	6450.0	5956.7	8463.9	5235.5
82.5°	3362.4	3505.3	4601.5	5333.7	4476.4	5159.6	4728.7	4590.3	4088.0	5298.0	3349.0
85°	1531.5	1665.5	2453.7	3628.0	3400.3	3438.2	2297.4	2710.4	3382.4	4302.3	1788.4
87.5°	149.6	192.0	506.8	1712.4	1161.0	915.4	341.6	658.7	850.7	1529.4	142.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4
2.5°	11560.5	11444.5	11049.3	10723.3	10377.3	10113.8	9770.0	9540.0	9381.5	9142.6	9113.6
5°	11029.2	10745.7	10058.0	9356.9	8751.9	8296.4	7834.3	7410.1	7160.1	7081.9	6981.5
7.5°	10133.9	9656.1	8772.0	7968.3	7273.9	6595.2	6072.8	5702.1	5454.3	5309.2	5135.1
10°	9397.2	8843.4	7767.3	6782.7	6211.1	5789.2	5329.3	4931.9	4626.0	4364.8	4221.9
12.5°	8901.5	8276.4	7066.3	6267.0	5824.9	5376.2	4838.1	4391.6	3940.6	3643.7	3516.4
15°	8751.9	8091.1	6849.7	6010.2	5376.2	4789.0	4186.2	3603.4	3156.9	2875.6	2781.8
17.5°	9118.0	8318.7	6847.5	5668.7	4849.3	4148.3	3375.7	2828.7	2371.1	2161.2	2094.2
20°	9801.3	8756.4	6867.5	5331.5	4277.7	3290.9	2455.9	2007.1	1788.4	1699.0	1665.5
22.5°	10754.6	9424.0	6927.8	4998.8	3652.6	2527.4	1839.7	1612.0	1533.8	1518.2	1511.5
25°	11928.9	10250.0	7131.0	4699.7	3125.7	1929.0	1538.3	1435.6	1390.9	1375.3	1373.1
27.5°	13009.5	11317.2	7376.6	4442.9	2616.6	1663.3	1390.9	1303.9	1259.2	1256.9	1261.4
30°	13985.2	12210.3	7582.0	4154.9	2230.4	1478.0	1294.9	1207.9	1165.4	1163.2	1176.6
32.5°	14829.2	12944.8	7733.8	3871.4	2016.1	1364.1	1207.9	1114.1	1078.3	1071.7	1078.3
35°	15731.1	13677.1	7664.6	3650.3	1893.3	1270.3	1143.1	1051.6	1009.1	989.1	989.1
37.5°	16760.3	14431.7	7546.3	3467.3	1837.5	1192.2	1087.3	998.0	955.6	935.5	933.3
40°	17883.3	15186.4	7383.3	3304.3	1781.6	1145.4	1049.3	955.6	904.2	884.1	879.6
42.5°	18874.7	15831.6	7249.3	3197.1	1690.1	1154.3	1015.9	924.3	859.6	832.8	830.5
45°	19736.5	16481.3	7224.8	3134.6	1614.2	1140.9	1006.9	899.7	823.9	794.8	790.4
47.5°	20410.7	17157.7	7365.4	3098.9	1531.5	1069.4	1065.0	884.1	792.6	761.3	756.8
50°	21232.3	18117.8	7686.9	3025.2	1455.7	1002.5	1125.2	881.9	768.0	727.8	716.7
52.5°	22326.3	19368.1	8122.3	2893.5	1346.3	939.9	1073.9	881.9	739.0	698.8	685.4
55°	23980.7	20962.2	8548.7	2708.2	1192.2	857.3	969.0	855.1	696.6	660.9	651.9
57.5°	25076.9	22127.6	8821.1	2451.4	1000.2	797.0	835.0	812.7	654.2	616.2	616.2
60°	25132.7	22440.2	8691.6	2127.7	879.6	741.3	725.6	819.4	616.2	576.1	571.6
62.5°	24489.7	21674.4	8017.4	1837.5	814.9	681.0	656.4	718.9	578.2	538.1	531.3
65°	23485.1	19720.8	6847.5	1699.0	779.2	627.3	591.6	589.4	538.1	500.1	491.2
67.5°	21638.7	17233.7	5626.2	1618.6	761.3	567.1	533.6	522.4	491.2	459.9	455.5
70°	18917.0	14434.0	4512.1	1585.2	752.4	504.6	477.8	464.4	437.6	413.0	410.8
72.5°	14717.5	11707.9	3724.0	1562.9	747.9	446.5	417.5	399.6	384.0	361.7	361.7
75°	10571.5	8613.5	2842.1	1408.8	692.1	384.0	352.7	341.6	319.2	301.4	305.8
77.5°	6664.4	5800.4	1871.0	1035.9	535.8	308.1	281.3	274.6	256.7	232.2	247.8
80°	4501.0	4079.0	1091.7	651.9	337.2	225.5	216.6	214.3	194.3	167.5	169.7
82.5°	3063.2	3005.2	567.1	370.6	194.3	131.7	127.2	131.7	109.4	89.3	89.3
85°	1196.7	1634.3	267.9	145.1	62.5	20.1	29.0	31.2	17.9	8.9	11.2
87.5°	22.3	167.5	6.7	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°	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4
2.5°	9068.9	9048.8	9082.3	8939.4	8968.5	9022.0	9048.8	9064.5	9285.5	9234.2	9374.8
5°	7075.2	7055.1	7184.6	7202.4	7269.5	7256.1	7320.8	7336.4	7416.8	7445.8	7642.3
7.5°	5146.2	5233.3	5380.6	5456.6	5570.4	5606.1	5572.6	5655.2	5487.8	5608.4	5644.1
10°	4134.9	4029.9	3967.4	4141.5	4163.8	4329.1	4262.1	4208.5	4306.7	4311.2	4405.0
12.5°	3442.7	3217.2	3067.6	3116.7	3170.4	3241.8	3253.0	3360.1	3431.6	3498.5	3554.4
15°	2699.2	2621.1	2484.9	2417.9	2493.9	2522.9	2592.1	2681.4	2757.3	2777.4	2853.3
17.5°	2071.9	2085.3	2063.0	2022.7	2069.6	2091.9	2096.4	2098.7	2118.8	2105.4	2217.0
20°	1667.8	1714.7	1770.4	1779.4	1795.0	1806.2	1786.1	1710.2	1712.4	1759.3	1795.0
22.5°	1509.2	1518.2	1580.7	1600.8	1649.9	1629.8	1571.8	1536.0	1531.5	1542.7	1560.6
25°	1384.3	1397.7	1442.3	1473.5	1511.5	1475.8	1433.4	1399.8	1395.4	1406.6	1424.4
27.5°	1272.6	1292.7	1332.9	1364.1	1399.8	1366.3	1326.2	1297.2	1294.9	1292.7	1303.9
30°	1183.3	1205.6	1234.6	1270.3	1294.9	1265.9	1228.0	1212.3	1210.0	1205.6	1210.0
32.5°	1094.0	1129.7	1158.8	1176.6	1201.1	1178.8	1149.8	1140.9	1125.2	1111.9	1105.1
35°	993.5	1031.4	1076.2	1098.5	1123.0	1100.7	1080.6	1042.6	1015.9	1013.6	1018.1
37.5°	935.5	951.1	986.8	1024.8	1049.3	1038.2	1000.2	962.2	955.6	955.6	960.0
40°	884.1	890.8	906.5	955.6	1000.2	966.7	919.9	908.7	908.7	906.5	908.7
42.5°	832.8	839.5	839.5	877.4	948.8	895.3	859.6	859.6	859.6	861.8	868.5
45°	785.9	788.1	785.9	812.7	879.6	835.0	810.5	817.1	821.6	826.1	830.5
47.5°	745.7	747.9	745.7	768.0	801.5	783.6	770.2	779.2	788.1	794.8	799.3
50°	709.9	707.8	712.2	725.6	741.3	745.7	736.8	750.2	754.7	763.6	774.7
52.5°	678.7	676.5	681.0	687.6	709.9	709.9	709.9	721.1	730.1	739.0	754.7
55°	643.0	645.2	651.9	660.9	689.9	685.4	687.6	696.6	705.5	718.9	727.8
57.5°	609.5	614.0	622.9	636.3	665.3	663.1	665.3	669.8	681.0	687.6	696.6
60°	571.6	580.5	591.6	600.6	629.6	627.3	638.5	647.5	654.2	654.2	658.7
62.5°	533.6	547.0	558.1	564.9	596.1	598.4	614.0	620.7	625.1	620.7	627.3
65°	495.6	515.8	520.2	529.2	560.4	562.6	580.5	596.1	591.6	587.2	598.4
67.5°	457.7	482.2	480.0	491.2	522.4	526.9	542.5	569.3	560.4	555.9	564.9
70°	415.3	433.2	435.3	442.1	484.4	477.8	502.4	526.9	520.2	522.4	522.4
72.5°	368.4	384.0	384.0	397.4	442.1	430.9	451.0	477.8	477.8	475.5	475.5
75°	312.6	321.5	330.4	350.5	397.4	384.0	397.4	422.0	426.4	422.0	422.0
77.5°	252.3	265.7	270.1	296.9	330.4	328.2	341.6	352.7	361.7	357.2	357.2
80°	178.6	192.0	209.8	238.9	259.0	265.7	272.4	281.3	285.8	285.8	290.3
82.5°	100.5	120.6	136.2	165.2	174.1	207.7	205.4	212.1	205.4	180.9	200.9
85°	22.3	42.4	60.3	75.9	87.1	120.6	127.2	142.9	118.3	109.4	109.4
87.5°	0.0	0.0	0.0	0.0	0.0	17.9	35.7	49.1	42.4	35.7	35.7
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°	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4	10877.4
2.5°	9493.2	9687.4	9921.8	10325.9	10609.5	10915.3	11223.4	11551.6	11638.7	11728.0
5°	7695.9	8077.7	8285.3	8827.9	9397.2	10120.5	10712.1	11359.6	11629.7	11692.3
7.5°	5829.4	6088.4	6633.1	7182.4	7887.9	8647.0	9553.5	10562.6	10877.4	11009.1
10°	4621.6	4974.3	5452.1	6041.5	6660.0	7477.1	8499.6	9678.4	10125.0	10198.7
12.5°	3933.9	4326.9	4847.0	5470.0	6054.9	6671.1	7702.6	8919.4	9397.2	9555.7
15°	3145.8	3621.3	4221.9	4878.3	5514.6	6188.8	7233.7	8606.8	9158.3	9343.5
17.5°	2471.5	2855.5	3505.3	4217.5	4972.0	5824.9	7135.5	8756.4	9435.1	9607.0
20°	1891.0	2165.6	2712.6	3465.0	4349.2	5465.5	7160.1	9321.2	10133.9	10368.3
22.5°	1634.3	1774.9	2107.6	2824.3	3813.4	5152.9	7260.5	10095.9	11076.1	11466.8
25°	1480.3	1553.9	1741.5	2210.3	3302.1	4849.3	7490.5	11138.6	12393.3	12652.3
27.5°	1348.5	1402.1	1518.2	1855.3	2837.7	4567.9	7758.4	12295.1	13623.5	14009.7
30°	1223.5	1294.9	1404.3	1647.7	2540.8	4311.2	8095.5	13232.8	14659.5	15018.9
32.5°	1127.4	1198.9	1299.4	1502.6	2288.5	4041.1	8296.4	14056.7	15505.6	15811.5
35°	1049.3	1109.6	1214.6	1386.5	2096.4	3835.7	8256.3	14710.8	16325.0	16637.6
37.5°	993.5	1044.8	1149.8	1277.1	1951.3	3621.3	8236.1	15574.8	17322.9	17684.7
40°	942.2	995.7	1091.7	1205.6	1806.2	3369.0	8247.3	16432.1	18385.7	18747.4
42.5°	902.0	962.2	1040.4	1185.5	1656.6	3165.9	8247.3	17177.8	19310.0	19658.3
45°	868.5	933.3	1009.1	1183.3	1538.3	3011.8	8191.5	17818.7	20046.8	20343.7
47.5°	839.5	910.9	1020.3	1143.1	1509.2	2900.2	8142.4	18332.1	20647.4	20926.5
50°	819.4	904.2	1085.1	1096.2	1518.2	2866.7	8379.0	18979.6	21176.5	21417.6
52.5°	803.7	906.5	1082.8	1027.0	1502.6	2889.0	8872.5	19990.9	21911.0	21928.9
55°	772.5	904.2	1027.0	948.8	1437.8	2927.0	9506.6	21460.1	23060.8	23074.2
57.5°	741.3	879.6	953.3	881.9	1306.1	2927.0	10270.1	22851.0	24447.3	24458.5
60°	709.9	915.4	837.3	823.9	1134.2	2873.4	11076.1	23462.7	24882.6	24996.5
62.5°	678.7	922.1	747.9	772.5	1009.1	2743.9	11676.6	22786.2	24293.3	24456.2
65°	643.0	743.5	689.9	718.9	944.4	2527.4	11486.8	21547.1	23185.9	23380.1
67.5°	600.6	629.6	627.3	663.1	922.1	2208.1	10486.6	19979.8	21993.6	21982.5
70°	549.2	564.9	571.6	609.5	879.6	1960.2	8738.5	17945.9	20401.8	20651.9
72.5°	495.6	509.0	515.8	549.2	837.3	1819.6	6782.7	15143.9	17671.3	18062.0
75°	437.6	446.5	455.5	484.4	792.6	1612.0	4831.4	11560.5	13534.2	14148.2
77.5°	377.3	377.3	388.4	417.5	667.6	1330.6	3241.8	8108.9	9169.4	9796.8
80°	305.8	308.1	303.6	334.9	491.2	910.9	1841.9	5416.3	6101.8	6222.3
82.5°	234.4	227.7	230.0	245.6	366.1	620.7	982.4	3364.6	3429.3	3362.4
85°	147.4	147.4	142.9	160.7	234.4	323.7	535.8	2060.7	1609.7	1531.5
87.5°	60.3	49.1	55.8	64.8	111.7	131.7	209.8	424.2	163.0	149.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)