

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: P456148

Luminaire Tested: **GALN-SA7B-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456148
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-SA7B-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 25114 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

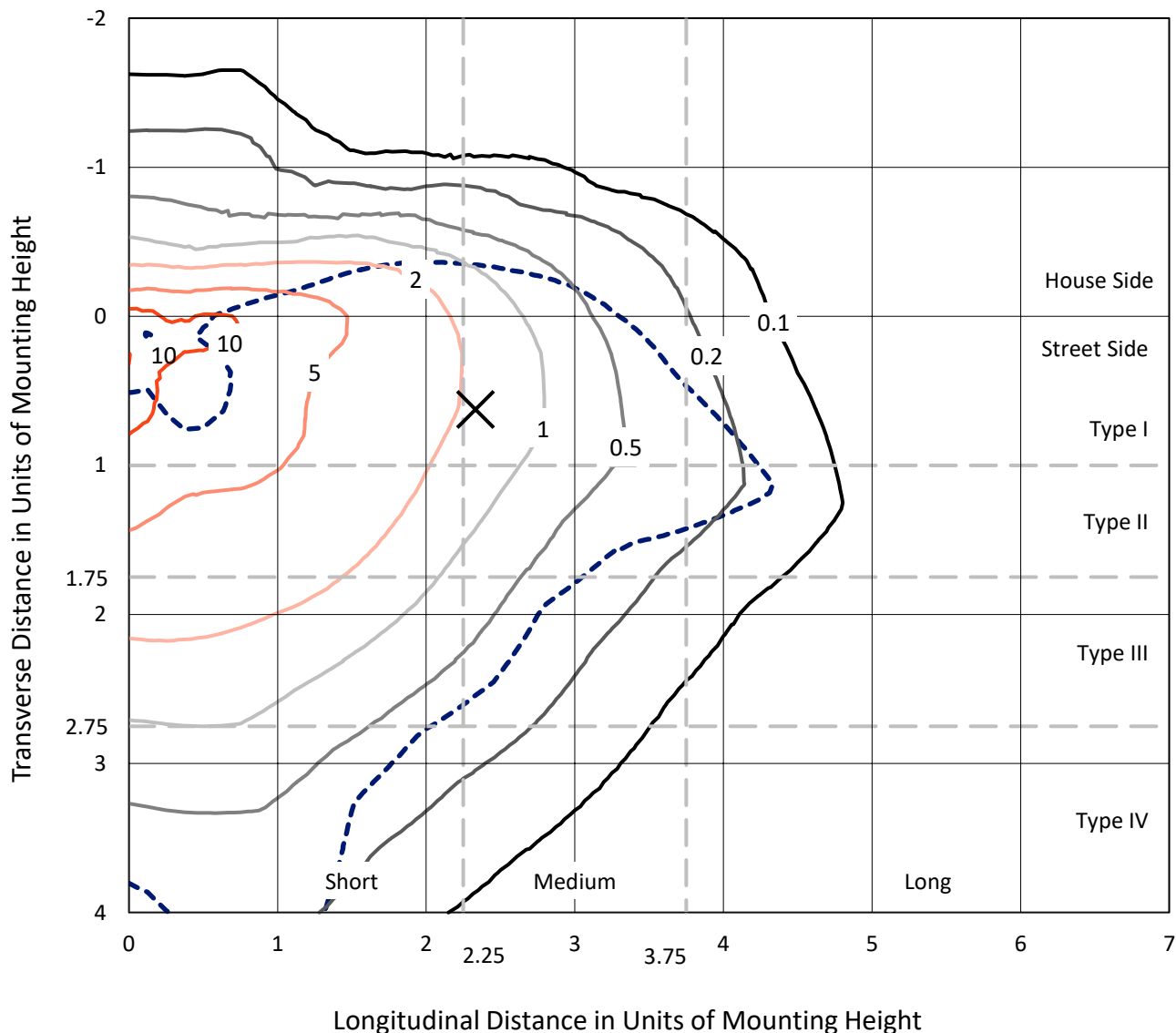
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

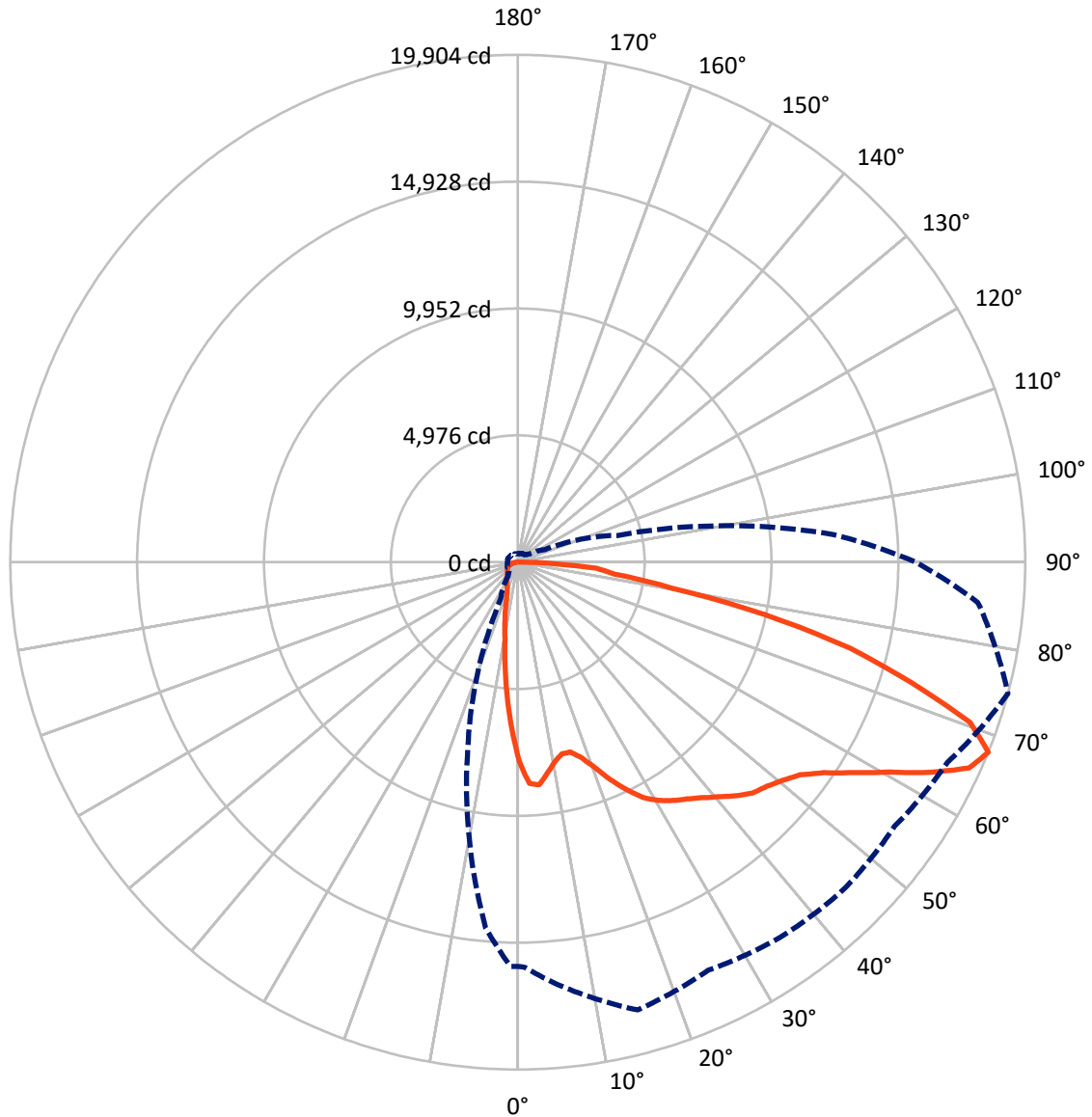
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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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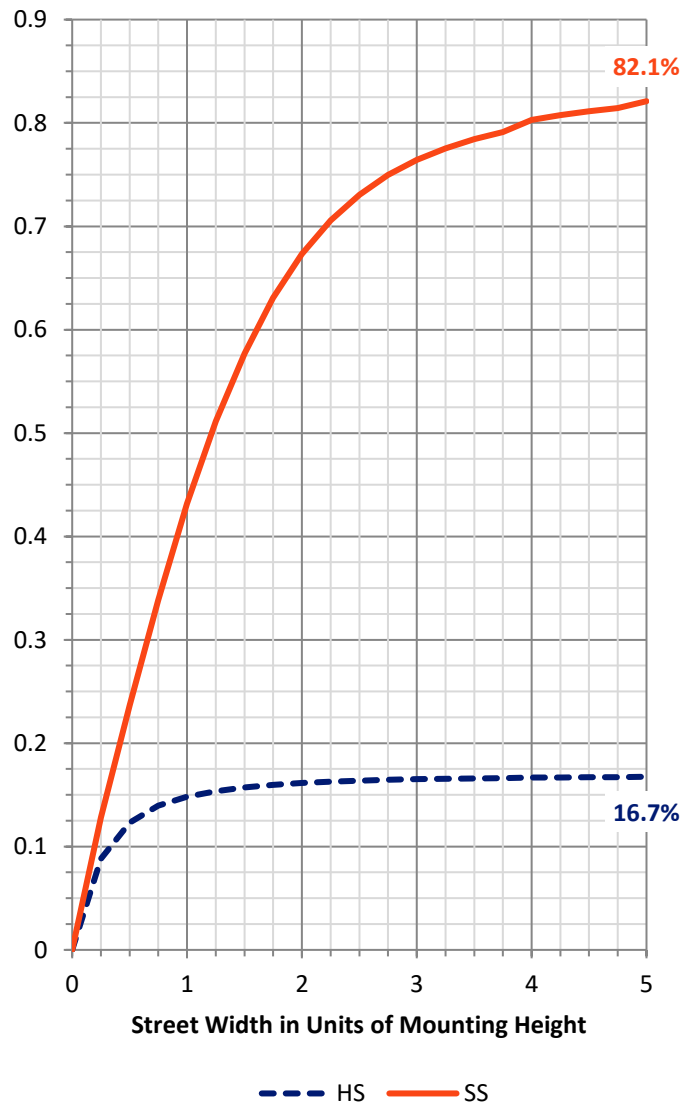
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4244.8	0.0	4244.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	20869.2	0.0	20869.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	25114.0	0.0	25114.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.1	2.4
10°-20°	1241.1	4.9
20°-30°	1786.0	7.1
30°-40°	2572.3	10.2
40°-50°	3613.4	14.4
50°-60°	5039.5	20.1
60°-70°	5991.6	23.9
70°-80°	3528.7	14.1
80°-90°	746.2	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°	25114.0	100.0
0°-180°	25114.0	100.0



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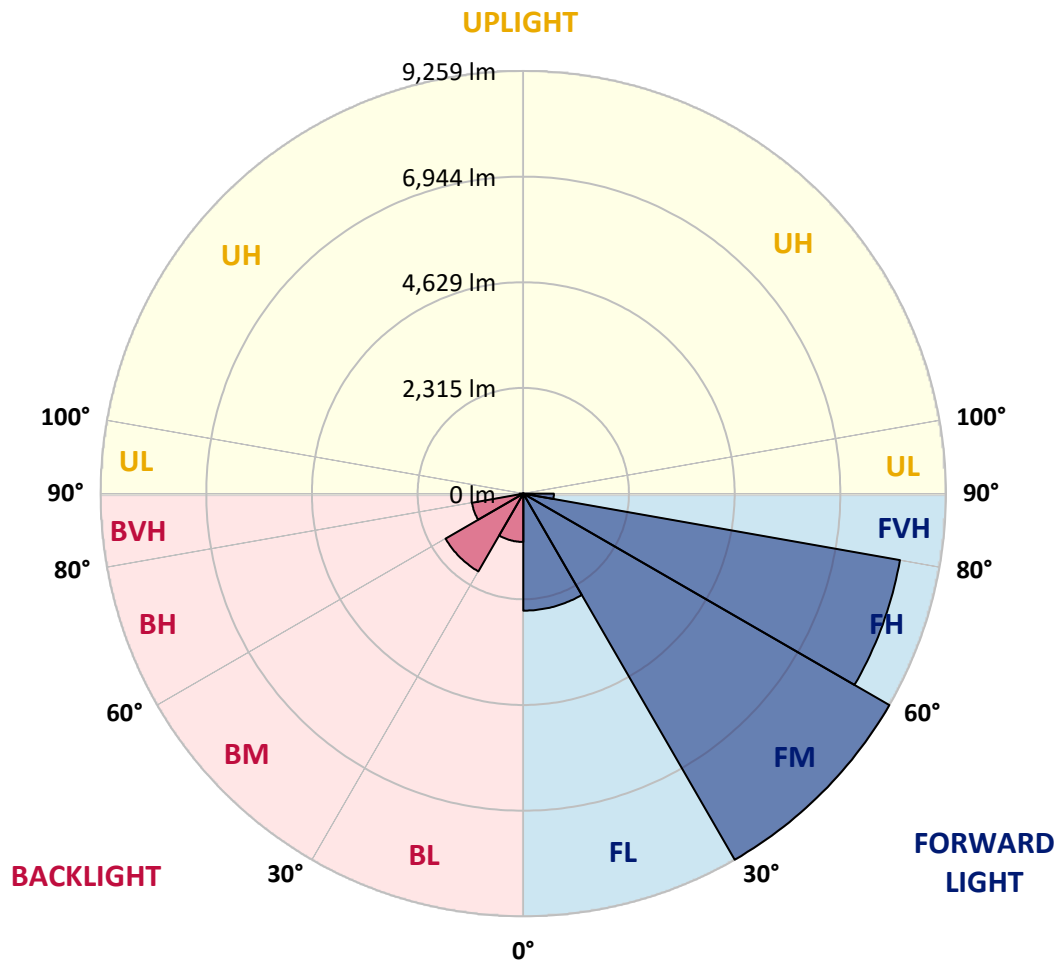
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2563.5	10.2			
FM	(30°-60°)	9258.6	36.9			
FH	(60°-80°)	8378.1	33.4			G4/12000
FVH	(80°-90°)	669.0	2.7			G4/750
BL	(0°-30°)	1058.8	4.2	B3/2500		
BM	(30°-60°)	1966.6	7.8	B2/2500		
BH	(60°-80°)	1142.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	77.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2
2.5°	8459.8	8471.1	8543.5	8754.5	8899.5	8952.6	8989.6	8920.4	8852.8	8688.5	8440.5
5°	8434.0	8500.1	8688.5	9162.0	9535.6	9696.6	9745.0	9537.2	9194.2	8772.2	8264.9
7.5°	7941.2	8029.8	8319.7	9113.6	9772.3	10149.2	10099.3	9724.0	9105.6	8353.5	7644.9
10°	7356.6	7454.9	7804.3	8764.2	9612.9	10131.5	10131.5	9674.1	8852.8	7958.9	7142.4
12.5°	6892.8	6995.9	7395.3	8405.0	9281.1	9772.3	9854.5	9461.5	8670.8	7709.3	6812.3
15°	6739.8	6839.7	7269.7	8187.6	8930.1	9229.6	9257.0	9128.1	8582.2	7727.0	6797.8
17.5°	6929.9	7058.7	7493.5	8252.0	8608.0	8625.7	8646.6	8748.1	8591.9	8050.7	7090.9
20°	7479.0	7617.5	8071.7	8459.8	8326.1	8142.5	8153.8	8414.7	8706.2	8585.4	7791.5
22.5°	8271.4	8392.2	8857.6	8825.4	8207.0	7828.5	7749.6	8113.5	8875.3	9252.1	8537.1
25°	9126.5	9268.3	9802.9	9368.1	8240.8	7641.7	7591.8	7936.4	9050.8	9875.4	9398.7
27.5°	10105.7	10244.2	10666.1	9915.7	8417.9	7627.2	7567.6	7920.3	9208.7	10451.9	10221.7
30°	10833.6	10960.9	11247.5	10376.3	8635.3	7723.8	7649.7	8047.5	9343.9	10846.5	11023.7
32.5°	11405.3	11537.4	11693.6	10662.9	8922.0	7899.4	7762.5	8279.4	9521.1	11147.7	11617.9
35°	12001.2	12157.4	12146.2	10917.4	9189.3	8102.3	7968.6	8614.4	9799.7	11410.2	12371.6
37.5°	12756.5	12819.3	12738.8	11146.1	9509.8	8467.8	8393.8	9112.0	10195.9	11727.4	13252.6
40°	13523.1	13648.7	13234.8	11423.1	9899.6	9155.5	9147.5	9848.0	10666.1	12099.5	14106.1
42.5°	14180.2	14286.5	13698.7	11664.6	10371.4	9994.6	10055.8	10835.2	11283.0	12531.1	14792.2
45°	14674.6	14769.6	14127.0	11898.1	10993.1	10964.1	11324.8	11893.3	12060.8	12919.2	15194.8
47.5°	15094.9	15186.7	14425.0	12252.5	11761.3	12122.0	12750.1	12996.5	12725.9	13141.4	15645.7
50°	15449.2	15476.6	14629.5	12674.4	12714.7	13540.8	14149.6	14309.0	13383.0	13460.3	16037.1
52.5°	15818.0	15782.6	14982.2	13205.9	13745.4	14887.2	15330.1	15495.9	14012.7	13853.3	16607.2
55°	16644.2	16678.0	15772.9	13875.8	14787.3	16209.4	16792.4	16632.9	14710.0	14576.4	17331.9
57.5°	17642.7	17613.7	16885.8	14924.2	15848.6	17439.8	17874.6	17618.5	15640.9	15570.0	18066.2
60°	18030.8	18069.5	17816.6	16051.6	16895.4	18517.2	18961.7	18563.9	16756.9	16724.7	18620.2
62.5°	17641.1	17858.5	18029.2	17054.9	17787.6	19309.5	19750.8	19296.6	17921.3	18154.8	19008.4
65°	16864.8	16911.5	17492.9	17905.2	18217.6	19440.0	19670.3	19428.7	18894.0	19457.7	18990.7
67.5°	15856.7	15896.9	16578.2	18183.8	17663.6	17958.3	18119.4	18048.5	18592.9	19903.8	18116.2
70°	14896.8	14864.6	15584.5	17473.6	15376.8	14929.1	15062.7	14840.5	16043.5	18813.5	16401.0
72.5°	13028.7	13144.7	13917.7	15499.2	12175.2	11447.2	11738.7	11163.8	12339.4	16112.7	13312.1
75°	10205.5	10232.9	11522.9	13007.8	9184.5	8036.2	8430.8	8190.8	9451.8	13441.0	9192.6
77.5°	7066.7	7005.5	8392.2	9935.0	6549.8	5883.0	5889.5	5775.1	6599.7	9896.3	6245.4
80°	4488.4	4395.0	5253.4	6137.5	4501.3	4815.3	4657.5	4652.6	4296.7	6105.3	3776.6
82.5°	2425.4	2528.4	3319.2	3847.4	3229.0	3721.8	3411.0	3311.1	2948.8	3821.6	2415.7
85°	1104.8	1201.4	1769.9	2617.0	2452.7	2480.1	1657.2	1955.1	2439.9	3103.4	1290.0
87.5°	107.9	138.5	365.6	1235.2	837.4	660.3	246.4	475.1	613.6	1103.2	103.1
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°	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2
2.5°	8339.0	8255.3	7970.2	7735.1	7485.5	7295.4	7047.4	6881.5	6767.2	6594.9	6573.9
5°	7955.7	7751.2	7255.2	6749.5	6313.0	5984.5	5651.1	5345.1	5164.8	5108.4	5035.9
7.5°	7309.9	6965.3	6327.5	5747.8	5246.9	4757.3	4380.5	4113.1	3934.4	3829.7	3704.1
10°	6778.5	6379.1	5602.8	4892.6	4480.3	4175.9	3844.2	3557.5	3336.9	3148.5	3045.4
12.5°	6420.9	5970.0	5097.1	4520.6	4201.7	3878.0	3489.9	3167.8	2842.5	2628.3	2536.5
15°	6313.0	5836.3	4940.9	4335.4	3878.0	3454.5	3019.6	2599.3	2277.2	2074.3	2006.6
17.5°	6577.2	6000.6	4939.3	4089.0	3497.9	2992.3	2435.0	2040.5	1710.3	1558.9	1510.6
20°	7070.0	6316.3	4953.8	3845.8	3085.7	2373.8	1771.5	1447.8	1290.0	1225.6	1201.4
22.5°	7757.6	6797.8	4997.3	3605.8	2634.7	1823.1	1327.0	1162.8	1106.4	1095.1	1090.3
25°	8604.7	7393.7	5143.8	3390.0	2254.7	1391.4	1109.6	1035.5	1003.3	992.0	990.4
27.5°	9384.2	8163.5	5321.0	3204.8	1887.5	1199.8	1003.3	940.5	908.3	906.7	909.9
30°	10088.0	8807.7	5469.2	2997.1	1608.9	1066.1	934.1	871.3	840.7	839.1	848.7
32.5°	10696.7	9337.5	5578.7	2792.6	1454.3	984.0	871.3	803.6	777.9	773.0	777.9
35°	11347.4	9865.7	5528.7	2633.1	1365.7	916.4	824.6	758.5	727.9	713.4	713.4
37.5°	12089.8	10410.1	5443.4	2501.1	1325.4	860.0	784.3	719.9	689.3	674.8	673.2
40°	12899.9	10954.4	5325.8	2383.5	1285.2	826.2	756.9	689.3	652.2	637.7	634.5
42.5°	13614.9	11419.8	5229.2	2306.2	1219.1	832.6	732.8	666.7	620.0	600.7	599.1
45°	14236.6	11888.5	5211.5	2261.1	1164.4	822.9	726.3	649.0	594.3	573.3	570.1
47.5°	14722.9	12376.5	5312.9	2235.3	1104.8	771.4	768.2	637.7	571.7	549.2	545.9
50°	15315.6	13069.0	5544.8	2182.2	1050.0	723.1	811.7	636.1	554.0	525.0	517.0
52.5°	16104.7	13970.8	5858.9	2087.2	971.1	678.0	774.6	636.1	533.1	504.1	494.4
55°	17298.1	15120.7	6166.5	1953.5	860.0	618.4	698.9	616.8	502.5	476.7	470.3
57.5°	18088.8	15961.4	6363.0	1768.3	721.5	574.9	602.3	586.2	471.9	444.5	444.5
60°	18129.1	16186.8	6269.6	1534.8	634.5	534.7	523.4	591.0	444.5	415.5	412.3
62.5°	17665.2	15634.4	5783.2	1325.4	587.8	491.2	473.5	518.6	417.1	388.1	383.3
65°	16940.5	14225.3	4939.3	1225.6	562.1	452.5	426.8	425.2	388.1	360.7	354.3
67.5°	15608.7	12431.2	4058.4	1167.6	549.2	409.1	384.9	376.8	354.3	331.8	328.5
70°	13645.5	10411.7	3254.8	1143.4	542.7	364.0	344.6	335.0	315.7	297.9	296.3
72.5°	10616.2	8445.3	2686.3	1127.3	539.5	322.1	301.2	288.3	277.0	260.9	260.9
75°	7625.6	6213.2	2050.1	1016.2	499.2	277.0	254.5	246.4	230.3	217.4	220.6
77.5°	4807.3	4184.0	1349.6	747.3	386.5	222.2	202.9	198.1	185.2	167.5	178.8
80°	3246.7	2942.3	787.5	470.3	243.2	162.7	156.2	154.6	140.1	120.8	122.4
82.5°	2209.6	2167.7	409.1	267.3	140.1	95.0	91.8	95.0	78.9	64.4	64.4
85°	863.2	1178.9	193.3	104.7	45.1	14.5	20.9	22.5	12.9	6.4	8.1
87.5°	16.1	120.8	4.8	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°	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2
2.5°	6541.7	6527.2	6551.4	6448.3	6469.3	6507.9	6527.2	6538.5	6697.9	6660.9	6762.4
5°	5103.6	5089.1	5182.5	5195.4	5243.7	5234.0	5280.7	5292.0	5350.0	5370.9	5512.6
7.5°	3712.1	3774.9	3881.2	3936.0	4018.1	4043.9	4019.7	4079.3	3958.5	4045.5	4071.3
10°	2982.6	2906.9	2861.8	2987.4	3003.5	3122.7	3074.4	3035.7	3106.6	3109.8	3177.5
12.5°	2483.3	2320.7	2212.8	2248.2	2286.9	2338.4	2346.5	2423.8	2475.3	2523.6	2563.9
15°	1947.1	1890.7	1792.5	1744.1	1798.9	1819.8	1869.8	1934.2	1988.9	2003.4	2058.2
17.5°	1494.5	1504.2	1488.1	1459.1	1492.9	1509.0	1512.2	1513.8	1528.3	1518.7	1599.2
20°	1203.0	1236.8	1277.1	1283.5	1294.8	1302.9	1288.4	1233.6	1235.2	1269.1	1294.8
22.5°	1088.7	1095.1	1140.2	1154.7	1190.1	1175.6	1133.8	1108.0	1104.8	1112.8	1125.7
25°	998.5	1008.2	1040.4	1062.9	1090.3	1064.5	1033.9	1009.8	1006.5	1014.6	1027.5
27.5°	918.0	932.5	961.5	984.0	1009.8	985.6	956.6	935.7	934.1	932.5	940.5
30°	853.5	869.7	890.6	916.4	934.1	913.1	885.8	874.5	872.9	869.7	872.9
32.5°	789.1	814.9	835.8	848.7	866.4	850.3	829.4	822.9	811.7	802.0	797.2
35°	716.7	744.0	776.2	792.4	810.1	794.0	779.5	752.1	732.8	731.2	734.4
37.5°	674.8	686.1	711.8	739.2	756.9	748.9	721.5	694.1	689.3	689.3	692.5
40°	637.7	642.6	653.9	689.3	721.5	697.3	663.5	655.5	655.5	653.9	655.5
42.5°	600.7	605.5	605.5	632.9	684.4	645.8	620.0	620.0	620.0	621.6	626.5
45°	566.9	568.5	566.9	586.2	634.5	602.3	584.6	589.4	592.7	595.9	599.1
47.5°	537.9	539.5	537.9	554.0	578.2	565.3	555.6	562.1	568.5	573.3	576.5
50°	512.1	510.5	513.7	523.4	534.7	537.9	531.5	541.1	544.3	550.8	558.8
52.5°	489.6	488.0	491.2	496.0	512.1	512.1	512.1	520.2	526.6	533.1	544.3
55°	463.8	465.4	470.3	476.7	497.6	494.4	496.0	502.5	508.9	518.6	525.0
57.5°	439.7	442.9	449.3	459.0	479.9	478.3	479.9	483.1	491.2	496.0	502.5
60°	412.3	418.7	426.8	433.2	454.2	452.5	460.6	467.0	471.9	471.9	475.1
62.5°	384.9	394.6	402.6	407.4	430.0	431.6	442.9	447.7	450.9	447.7	452.5
65°	357.5	372.0	375.2	381.7	404.2	405.8	418.7	430.0	426.8	423.6	431.6
67.5°	330.1	347.9	346.3	354.3	376.8	380.1	391.3	410.7	404.2	401.0	407.4
70°	299.5	312.4	314.0	318.9	349.5	344.6	362.4	380.1	375.2	376.8	376.8
72.5°	265.7	277.0	277.0	286.7	318.9	310.8	325.3	344.6	344.6	343.0	343.0
75°	225.5	231.9	238.3	252.8	286.7	277.0	286.7	304.4	307.6	304.4	304.4
77.5°	182.0	191.6	194.9	214.2	238.3	236.7	246.4	254.5	260.9	257.7	257.7
80°	128.8	138.5	151.4	172.3	186.8	191.6	196.5	202.9	206.1	206.1	209.4
82.5°	72.5	87.0	98.2	119.2	125.6	149.8	148.2	153.0	148.2	130.4	144.9
85°	16.1	30.6	43.5	54.8	62.8	87.0	91.8	103.1	85.4	78.9	78.9
87.5°	0.0	0.0	0.0	0.0	0.0	12.9	25.8	35.4	30.6	25.8	25.8
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°	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2	7846.2
2.5°	6847.7	6987.8	7156.9	7448.4	7653.0	7873.6	8095.8	8332.6	8395.4	8459.8
5°	5551.3	5826.7	5976.5	6367.8	6778.5	7300.3	7727.0	8194.1	8388.9	8434.0
7.5°	4204.9	4391.8	4784.7	5180.9	5689.8	6237.3	6891.2	7619.1	7846.2	7941.2
10°	3333.7	3588.1	3932.8	4357.9	4804.0	5393.5	6131.1	6981.4	7303.5	7356.6
12.5°	2837.6	3121.1	3496.3	3945.7	4367.6	4812.1	5556.1	6433.8	6778.5	6892.8
15°	2269.2	2612.2	3045.4	3518.9	3977.9	4464.2	5217.9	6208.4	6606.1	6739.8
17.5°	1782.8	2059.8	2528.4	3042.2	3586.5	4201.7	5147.1	6316.3	6805.8	6929.9
20°	1364.1	1562.2	1956.7	2499.4	3137.2	3942.4	5164.8	6723.7	7309.9	7479.0
22.5°	1178.9	1280.3	1520.3	2037.2	2750.7	3717.0	5237.2	7282.5	7989.5	8271.4
25°	1067.7	1120.9	1256.2	1594.4	2381.9	3497.9	5403.1	8034.6	8939.7	9126.5
27.5°	972.7	1011.4	1095.1	1338.3	2046.9	3295.0	5596.4	8868.9	9827.1	10105.7
30°	882.5	934.1	1013.0	1188.5	1832.7	3109.8	5839.6	9545.3	10574.3	10833.6
32.5°	813.3	864.8	937.3	1083.8	1650.7	2914.9	5984.5	10139.5	11184.7	11405.3
35°	756.9	800.4	876.1	1000.1	1512.2	2766.8	5955.5	10611.4	11775.8	12001.2
37.5°	716.7	753.7	829.4	921.2	1407.6	2612.2	5941.0	11234.6	12495.6	12756.5
40°	679.6	718.3	787.5	869.7	1302.9	2430.2	5949.1	11853.1	13262.2	13523.1
42.5°	650.6	694.1	750.5	855.2	1195.0	2283.6	5949.1	12391.0	13929.0	14180.2
45°	626.5	673.2	727.9	853.5	1109.6	2172.5	5908.8	12853.2	14460.4	14674.6
47.5°	605.5	657.1	736.0	824.6	1088.7	2092.0	5873.4	13223.6	14893.6	15094.9
50°	591.0	652.2	782.7	790.7	1095.1	2067.8	6044.1	13690.6	15275.3	15449.2
52.5°	579.8	653.9	781.1	740.8	1083.8	2083.9	6400.0	14420.1	15805.1	15818.0
55°	557.2	652.2	740.8	684.4	1037.1	2111.3	6857.4	15479.8	16634.5	16644.2
57.5°	534.7	634.5	687.7	636.1	942.1	2111.3	7408.2	16483.2	17634.6	17642.7
60°	512.1	660.3	603.9	594.3	818.1	2072.7	7989.5	16924.4	17948.7	18030.8
62.5°	489.6	665.1	539.5	557.2	727.9	1979.3	8422.8	16436.5	17523.5	17641.1
65°	463.8	536.3	497.6	518.6	681.2	1823.1	8285.9	15542.6	16724.7	16864.8
67.5°	433.2	454.2	452.5	478.3	665.1	1592.8	7564.4	14412.1	15864.7	15856.7
70°	396.2	407.4	412.3	439.7	634.5	1414.0	6303.4	12945.0	14716.5	14896.8
72.5°	357.5	367.2	372.0	396.2	603.9	1312.5	4892.6	10923.8	12746.9	13028.7
75°	315.7	322.1	328.5	349.5	571.7	1162.8	3485.1	8339.0	9762.7	10205.5
77.5°	272.2	272.2	280.2	301.2	481.5	959.8	2338.4	5849.2	6614.2	7066.7
80°	220.6	222.2	219.0	241.6	354.3	657.1	1328.6	3907.0	4401.4	4488.4
82.5°	169.1	164.3	165.9	177.2	264.1	447.7	708.6	2427.0	2473.7	2425.4
85°	106.3	106.3	103.1	116.0	169.1	233.5	386.5	1486.5	1161.1	1104.8
87.5°	43.5	35.4	40.3	46.7	80.5	95.0	151.4	306.0	117.6	107.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)