

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: P457627

Luminaire Tested: **GALN-SA9A-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457627
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-SA9A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 29886 lumens
Efficiency: N/A
Efficacy: 109.1 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

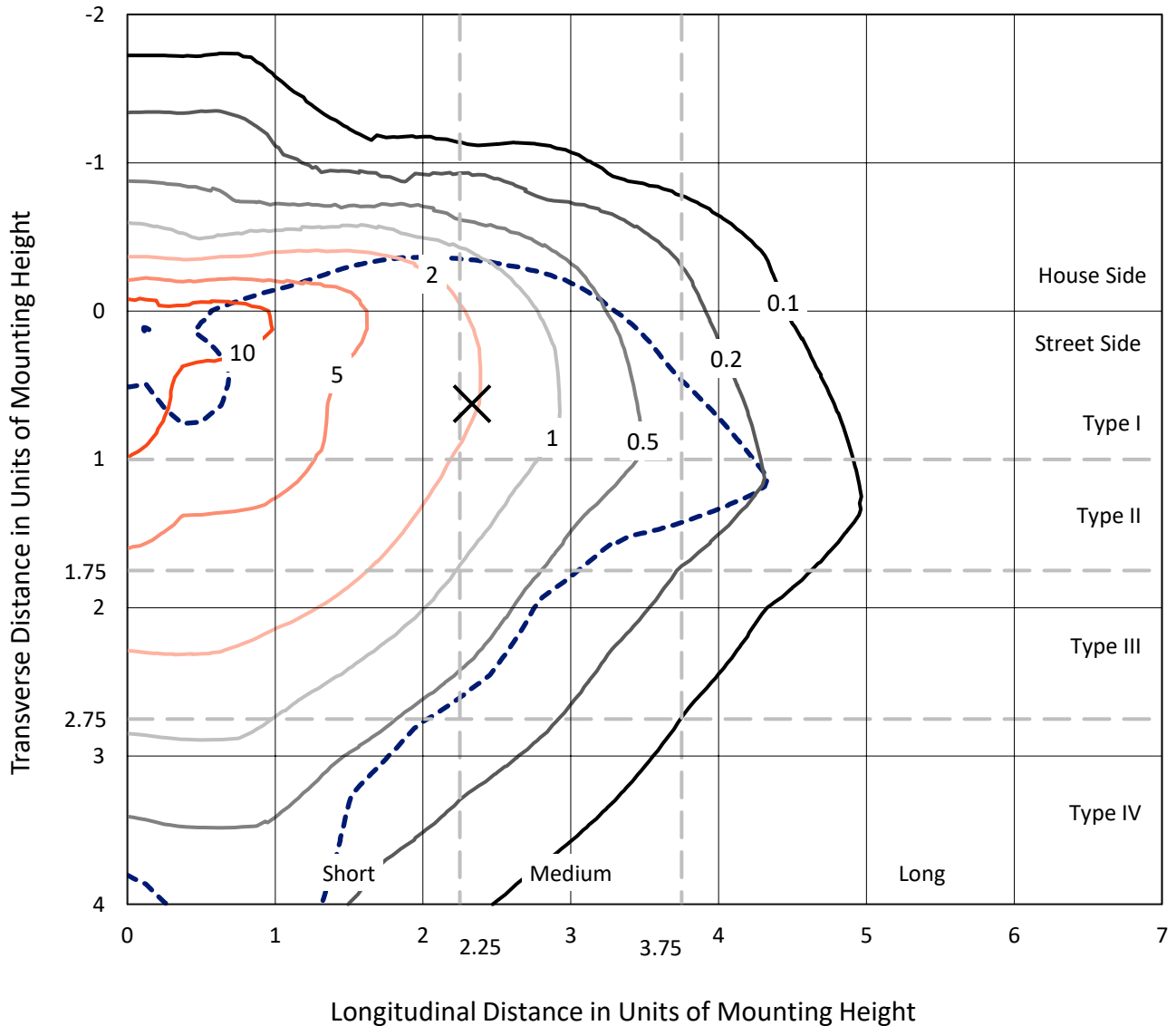
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

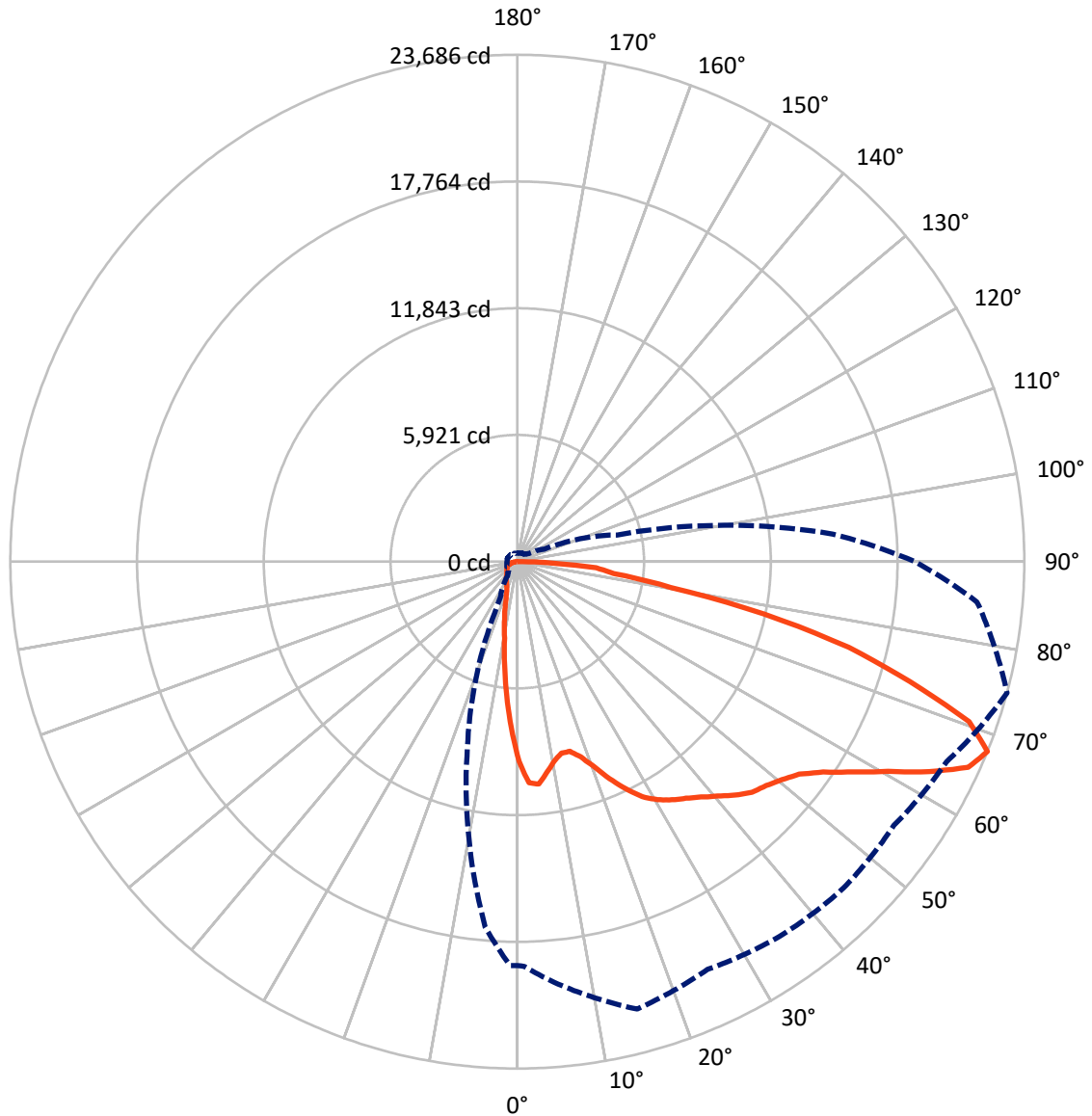
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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	5051.4	0.0	5051.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	24834.6	0.0	24834.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	29886.0	0.0	29886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.2	2.4
10°-20°	1477.0	4.9
20°-30°	2125.4	7.1
30°-40°	3061.1	10.2
40°-50°	4300.0	14.4
50°-60°	5997.0	20.1
60°-70°	7130.1	23.9
70°-80°	4199.2	14.1
80°-90°	888.0	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°	29886.0	100.0
0°-180°	29886.0	100.0

Coefficient of Utilization



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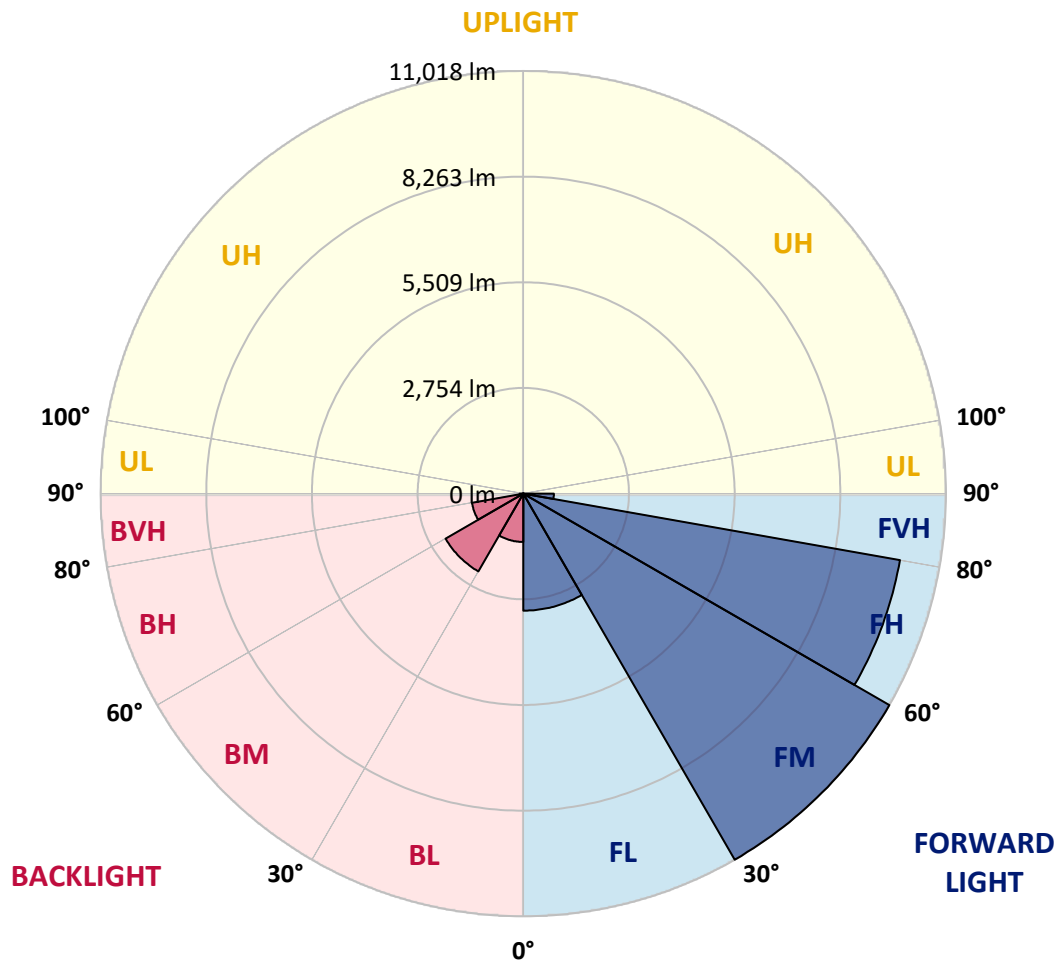
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3050.5	10.2			
FM	(30°-60°)	11017.9	36.9			
FH	(60°-80°)	9970.1	33.4			G4/12000
FVH	(80°-90°)	796.1	2.7			G5
BL	(0°-30°)	1260.0	4.2	B3/2500		
BM	(30°-60°)	2340.3	7.8	B2/2500		
BH	(60°-80°)	1359.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	91.8	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°	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1
2.5°	10067.3	10080.7	10166.9	10418.0	10590.5	10653.7	10697.8	10615.4	10534.9	10339.4	10044.3
5°	10036.6	10115.2	10339.4	10902.9	11347.5	11539.1	11596.6	11349.4	10941.2	10439.1	9835.4
7.5°	9450.2	9555.6	9900.5	10845.4	11629.2	12077.7	12018.3	11571.7	10835.8	9940.8	9097.5
10°	8754.5	8871.4	9287.3	10429.5	11439.5	12056.6	12056.6	11512.3	10534.9	9471.2	8499.6
12.5°	8202.5	8325.2	8800.5	10002.1	11044.7	11629.2	11726.9	11259.3	10318.3	9174.2	8106.7
15°	8020.5	8139.3	8651.0	9743.4	10626.9	10983.4	11015.9	10862.6	10212.9	9195.3	8089.5
17.5°	8246.6	8399.9	8917.4	9820.0	10243.6	10264.7	10289.6	10410.3	10224.4	9580.5	8438.3
20°	8900.1	9065.0	9605.4	10067.3	9908.2	9689.7	9703.1	10013.6	10360.5	10216.8	9271.9
22.5°	9843.0	9986.8	10540.6	10502.3	9766.4	9316.0	9222.1	9655.2	10561.7	11010.2	10159.3
25°	10860.7	11029.3	11665.6	11148.2	9806.6	9093.7	9034.3	9444.4	10770.6	11751.9	11184.6
27.5°	12025.9	12190.7	12692.9	11799.8	10017.4	9076.5	9005.5	9425.3	10958.4	12438.0	12163.9
30°	12892.2	13043.6	13384.7	12347.9	10276.2	9191.4	9103.3	9576.7	11119.4	12907.5	13118.3
32.5°	13572.5	13729.7	13915.6	12689.0	10617.3	9400.3	9237.4	9852.6	11330.2	13265.9	13825.5
35°	14281.6	14467.5	14454.1	12991.8	10935.4	9641.8	9482.7	10251.3	11661.8	13578.3	14722.4
37.5°	15180.4	15255.2	15159.4	13264.0	11316.8	10076.9	9988.7	10843.4	12133.2	13955.8	15770.7
40°	16092.7	16242.2	15749.6	13593.6	11780.6	10895.2	10885.6	11719.3	12692.9	14398.5	16786.5
42.5°	16874.6	17001.1	16301.6	13881.1	12342.1	11893.7	11966.5	12894.1	13426.9	14912.1	17602.9
45°	17463.0	17576.0	16811.4	14159.0	13081.9	13047.4	13476.7	14153.2	14352.5	15374.0	18082.0
47.5°	17963.2	18072.4	17165.9	14580.6	13996.1	14425.3	15172.8	15466.0	15144.0	15638.5	18618.6
50°	18384.8	18417.4	17409.3	15082.7	15130.6	16113.8	16838.2	17027.9	15926.0	16017.9	19084.3
52.5°	18823.7	18781.5	17829.0	15715.1	16357.2	17715.9	18243.0	18440.4	16675.3	16485.6	19762.7
55°	19806.8	19847.1	18770.0	16512.4	17597.1	19289.4	19983.1	19793.4	17505.1	17346.1	20625.2
57.5°	20995.0	20960.5	20094.3	17760.0	18860.1	20753.6	21271.0	20966.3	18612.9	18528.5	21499.1
60°	21456.9	21502.9	21202.0	19101.6	20105.8	22035.7	22564.6	22091.3	19941.0	19902.7	22158.3
62.5°	20993.1	21251.9	21455.0	20295.5	21167.5	22978.6	23503.7	22963.3	21326.6	21604.5	22620.2
65°	20069.4	20125.0	20816.8	21307.4	21679.2	23133.8	23407.9	23120.4	22484.2	23154.9	22599.1
67.5°	18869.7	18917.6	19728.3	21639.0	21020.0	21370.7	21562.3	21478.0	22125.8	23685.8	21558.5
70°	17727.4	17689.1	18545.8	20793.8	18298.6	17765.8	17924.8	17660.4	19092.0	22388.3	19517.4
72.5°	15504.3	15642.3	16562.2	18444.2	14488.6	13622.3	13969.2	13285.0	14684.1	19174.4	15841.6
75°	12144.7	12177.3	13712.4	15479.4	10929.7	9563.2	10032.8	9747.2	11247.8	15994.9	10939.3
77.5°	8409.5	8336.7	9986.8	11822.8	7794.3	7000.9	7008.6	6872.5	7853.7	11776.8	7432.1
80°	5341.2	5230.1	6251.6	7303.7	5356.6	5730.3	5542.5	5536.7	5113.2	7265.4	4494.1
82.5°	2886.2	3008.9	3949.9	4578.5	3842.5	4429.0	4059.1	3940.3	3509.1	4547.8	2874.7
85°	1314.7	1429.7	2106.2	3114.3	2918.8	2951.4	1972.1	2326.6	2903.5	3693.1	1535.1
87.5°	128.4	164.8	435.0	1469.9	996.6	785.8	293.2	565.4	730.2	1312.8	122.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1
2.5°	9923.5	9823.9	9484.7	9204.9	8907.8	8681.7	8386.5	8189.1	8053.1	7848.0	7823.1
5°	9467.4	9224.0	8633.7	8032.0	7512.6	7121.6	6724.9	6360.8	6146.2	6079.1	5992.8
7.5°	8698.9	8288.8	7529.9	6839.9	6243.9	5661.3	5212.8	4894.7	4682.0	4557.4	4407.9
10°	8066.5	7591.2	6667.4	5822.3	5331.6	4969.4	4574.6	4233.5	3970.9	3746.7	3624.1
12.5°	7641.0	7104.4	6065.7	5379.6	5000.1	4614.9	4153.0	3769.7	3382.6	3127.7	3018.5
15°	7512.6	6945.3	5879.8	5159.2	4614.9	4110.9	3593.4	3093.2	2709.9	2468.4	2387.9
17.5°	7826.9	7140.8	5877.8	4865.9	4162.6	3560.8	2897.7	2428.2	2035.3	1855.2	1797.7
20°	8413.3	7516.4	5895.1	4576.6	3672.0	2824.9	2108.1	1722.9	1535.1	1458.4	1429.7
22.5°	9231.7	8089.5	5946.8	4291.0	3135.4	2169.5	1579.2	1383.7	1316.6	1303.2	1297.5
25°	10239.8	8798.6	6121.2	4034.2	2683.1	1655.8	1320.5	1232.3	1194.0	1180.6	1178.6
27.5°	11167.3	9714.6	6332.1	3813.8	2246.1	1427.8	1194.0	1119.2	1080.9	1079.0	1082.8
30°	12004.8	10481.2	6508.4	3566.6	1914.6	1268.7	1111.6	1036.8	1000.4	998.5	1010.0
32.5°	12729.3	11111.8	6638.7	3323.2	1730.6	1171.0	1036.8	956.3	925.7	919.9	925.7
35°	13503.5	11740.4	6579.3	3133.4	1625.2	1090.5	981.2	902.7	866.2	849.0	849.0
37.5°	14387.0	12388.1	6477.7	2976.3	1577.3	1023.4	933.3	856.7	820.3	803.0	801.1
40°	15351.0	13035.9	6337.8	2836.4	1529.4	983.2	900.7	820.3	776.2	758.9	755.1
42.5°	16201.9	13589.8	6222.8	2744.4	1450.8	990.8	872.0	793.4	737.8	714.8	712.9
45°	16941.7	14147.5	6201.7	2690.7	1385.6	979.3	864.3	772.3	707.2	682.3	678.4
47.5°	17520.5	14728.2	6322.5	2660.1	1314.7	918.0	914.2	758.9	680.4	653.5	649.7
50°	18225.7	15552.2	6598.4	2596.8	1249.5	860.5	965.9	757.0	659.3	624.8	615.2
52.5°	19164.8	16625.5	6972.2	2483.8	1155.6	806.8	921.8	757.0	634.4	599.9	588.4
55°	20584.9	17993.8	7338.2	2324.7	1023.4	735.9	831.8	734.0	597.9	567.3	559.6
57.5°	21525.9	18994.2	7572.0	2104.3	858.6	684.2	716.8	697.6	561.5	528.9	528.9
60°	21573.8	19262.5	7460.9	1826.4	755.1	636.3	622.9	703.3	528.9	494.5	490.6
62.5°	21021.9	18605.2	6882.1	1577.3	699.5	584.5	563.4	617.1	496.4	461.9	456.1
65°	20159.5	16928.3	5877.8	1458.4	668.9	538.5	507.9	506.0	461.9	429.3	421.6
67.5°	18574.5	14793.3	4829.5	1389.4	653.5	486.8	458.0	448.5	421.6	394.8	391.0
70°	16238.3	12390.0	3873.2	1360.7	645.9	433.1	410.1	398.6	375.6	354.5	352.6
72.5°	12633.4	10050.0	3196.7	1341.5	642.0	383.3	358.4	343.1	329.6	310.5	310.5
75°	9074.5	7393.8	2439.7	1209.3	594.1	329.6	302.8	293.2	274.1	258.7	262.6
77.5°	5720.7	4979.0	1606.0	889.2	460.0	264.5	241.5	235.7	220.4	199.3	212.7
80°	3863.6	3501.4	937.2	559.6	289.4	193.6	185.9	184.0	166.7	143.7	145.7
82.5°	2629.4	2579.6	486.8	318.1	166.7	113.1	109.2	113.1	93.9	76.7	76.7
85°	1027.2	1402.9	230.0	124.6	53.7	17.2	24.9	26.8	15.3	7.7	9.6
87.5°	19.2	143.7	5.7	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°	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1
2.5°	7784.7	7767.5	7796.2	7673.6	7698.5	7744.5	7767.5	7780.9	7970.6	7926.6	8047.3
5°	6073.3	6056.1	6167.2	6182.6	6240.1	6228.6	6284.1	6297.6	6366.5	6391.5	6560.1
7.5°	4417.5	4492.2	4618.7	4683.9	4781.6	4812.3	4783.5	4854.4	4710.7	4814.2	4844.9
10°	3549.3	3459.2	3405.6	3555.1	3574.2	3716.1	3658.6	3612.6	3696.9	3700.7	3781.2
12.5°	2955.2	2761.6	2633.2	2675.4	2721.4	2782.7	2792.3	2884.3	2945.6	3003.1	3051.0
15°	2317.0	2249.9	2133.0	2075.5	2140.7	2165.6	2225.0	2301.7	2366.9	2384.1	2449.3
17.5°	1778.5	1790.0	1770.8	1736.3	1776.6	1795.7	1799.6	1801.5	1818.7	1807.2	1903.1
20°	1431.6	1471.9	1519.8	1527.4	1540.9	1550.4	1533.2	1468.0	1469.9	1510.2	1540.9
22.5°	1295.5	1303.2	1356.9	1374.1	1416.3	1399.0	1349.2	1318.5	1314.7	1324.3	1339.6
25°	1188.2	1199.7	1238.0	1264.9	1297.5	1266.8	1230.4	1201.6	1197.8	1207.4	1222.7
27.5°	1092.4	1109.6	1144.1	1171.0	1201.6	1172.9	1138.4	1113.5	1111.6	1109.6	1119.2
30°	1015.7	1034.9	1059.8	1090.5	1111.6	1086.6	1054.1	1040.6	1038.7	1034.9	1038.7
32.5°	939.1	969.7	994.7	1010.0	1031.1	1011.9	987.0	979.3	965.9	954.4	948.7
35°	852.8	885.4	923.7	942.9	964.0	944.8	927.6	895.0	872.0	870.1	873.9
37.5°	803.0	816.4	847.1	879.7	900.7	891.2	858.6	826.0	820.3	820.3	824.1
40°	758.9	764.7	778.1	820.3	858.6	829.8	789.6	780.0	780.0	778.1	780.0
42.5°	714.8	720.6	720.6	753.2	814.5	768.5	737.8	737.8	737.8	739.8	745.5
45°	674.6	676.5	674.6	697.6	755.1	716.8	695.7	701.4	705.3	709.1	712.9
47.5°	640.1	642.0	640.1	659.3	688.0	672.7	661.2	668.9	676.5	682.3	686.1
50°	609.4	607.5	611.4	622.9	636.3	640.1	632.4	643.9	647.8	655.4	665.0
52.5°	582.6	580.7	584.5	590.3	609.4	609.4	609.4	619.0	626.7	634.4	647.8
55°	551.9	553.9	559.6	567.3	592.2	588.4	590.3	597.9	605.6	617.1	624.8
57.5°	523.2	527.0	534.7	546.2	571.1	569.2	571.1	574.9	584.5	590.3	597.9
60°	490.6	498.3	507.9	515.5	540.4	538.5	548.1	555.8	561.5	561.5	565.4
62.5°	458.0	469.5	479.1	484.9	511.7	513.6	527.0	532.8	536.6	532.8	538.5
65°	425.5	442.7	446.5	454.2	481.0	483.0	498.3	511.7	507.9	504.0	513.6
67.5°	392.9	414.0	412.0	421.6	448.5	452.3	465.7	488.7	481.0	477.2	484.9
70°	356.5	371.8	373.7	379.5	415.9	410.1	431.2	452.3	446.5	448.5	448.5
72.5°	316.2	329.6	329.6	341.1	379.5	369.9	387.1	410.1	410.1	408.2	408.2
75°	268.3	276.0	283.6	300.9	341.1	329.6	341.1	362.2	366.0	362.2	362.2
77.5°	216.6	228.1	231.9	254.9	283.6	281.7	293.2	302.8	310.5	306.6	306.6
80°	153.3	164.8	180.1	205.1	222.3	228.1	233.8	241.5	245.3	245.3	249.1
82.5°	86.2	103.5	116.9	141.8	149.5	178.2	176.3	182.1	176.3	155.2	172.5
85°	19.2	36.4	51.7	65.2	74.7	103.5	109.2	122.7	101.6	93.9	93.9
87.5°	0.0	0.0	0.0	0.0	0.0	15.3	30.7	42.2	36.4	30.7	30.7
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°	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1	9337.1
2.5°	8148.9	8315.6	8516.8	8863.7	9107.1	9369.7	9634.1	9915.9	9990.6	10067.3
5°	6606.1	6933.8	7112.1	7577.8	8066.5	8687.4	9195.3	9751.1	9982.9	10036.6
7.5°	5003.9	5226.2	5693.9	6165.3	6770.9	7422.5	8200.6	9066.9	9337.1	9450.2
10°	3967.1	4269.9	4680.0	5186.0	5716.9	6418.3	7296.0	8307.9	8691.2	8754.5
12.5°	3376.8	3714.1	4160.7	4695.4	5197.5	5726.4	6611.9	7656.3	8066.5	8202.5
15°	2700.3	3108.5	3624.1	4187.5	4733.7	5312.5	6209.4	7388.0	7861.4	8020.5
17.5°	2121.5	2451.2	3008.9	3620.2	4268.0	5000.1	6125.1	7516.4	8099.0	8246.6
20°	1623.3	1859.0	2328.5	2974.4	3733.3	4691.5	6146.2	8001.3	8698.9	8900.1
22.5°	1402.9	1523.6	1809.2	2424.3	3273.3	4423.2	6232.4	8666.3	9507.7	9843.0
25°	1270.6	1333.9	1494.9	1897.3	2834.5	4162.6	6429.8	9561.3	10638.4	10860.7
27.5°	1157.6	1203.5	1303.2	1592.6	2435.8	3921.1	6659.8	10554.1	11694.4	12025.9
30°	1050.2	1111.6	1205.5	1414.4	2181.0	3700.7	6949.2	11359.0	12583.6	12892.2
32.5°	967.8	1029.2	1115.4	1289.8	1964.4	3468.8	7121.6	12066.2	13310.0	13572.5
35°	900.7	952.5	1042.6	1190.1	1799.6	3292.5	7087.1	12627.7	14013.3	14281.6
37.5°	852.8	896.9	987.0	1096.2	1675.0	3108.5	7069.9	13369.4	14870.0	15180.4
40°	808.8	854.8	937.2	1034.9	1550.4	2892.0	7079.5	14105.3	15782.2	16092.7
42.5°	774.3	826.0	893.1	1017.7	1422.0	2717.6	7079.5	14745.4	16575.6	16874.6
45°	745.5	801.1	866.2	1015.7	1320.5	2585.3	7031.6	15295.4	17208.1	17463.0
47.5°	720.6	781.9	875.8	981.2	1295.5	2489.5	6989.4	15736.2	17723.6	17963.2
50°	703.3	776.2	931.4	941.0	1303.2	2460.8	7192.6	16292.0	18177.8	18384.8
52.5°	689.9	778.1	929.5	881.6	1289.8	2479.9	7616.1	17160.2	18808.3	18823.7
55°	663.1	776.2	881.6	814.5	1234.2	2512.5	8160.4	18421.2	19795.3	19806.8
57.5°	636.3	755.1	818.3	757.0	1121.1	2512.5	8815.8	19615.2	20985.5	20995.0
60°	609.4	785.8	718.7	707.2	973.6	2466.5	9507.7	20140.3	21359.2	21456.9
62.5°	582.6	791.5	642.0	663.1	866.2	2355.4	10023.2	19559.6	20853.2	20993.1
65°	551.9	638.2	592.2	617.1	810.7	2169.5	9860.3	18496.0	19902.7	20069.4
67.5°	515.5	540.4	538.5	569.2	791.5	1895.4	9001.7	17150.6	18879.3	18869.7
70°	471.5	484.9	490.6	523.2	755.1	1682.7	7501.1	15404.7	17512.8	17727.4
72.5°	425.5	437.0	442.7	471.5	718.7	1561.9	5822.3	12999.5	15168.9	15504.3
75°	375.6	383.3	391.0	415.9	680.4	1383.7	4147.3	9923.5	11617.7	12144.7
77.5°	323.9	323.9	333.5	358.4	573.0	1142.2	2782.7	6960.7	7871.0	8409.5
80°	262.6	264.5	260.6	287.5	421.6	781.9	1581.1	4649.4	5237.7	5341.2
82.5°	201.2	195.5	197.4	210.8	314.3	532.8	843.3	2888.1	2943.7	2886.2
85°	126.5	126.5	122.7	138.0	201.2	277.9	460.0	1768.9	1381.8	1314.7
87.5°	51.7	42.2	47.9	55.6	95.8	113.1	180.1	364.1	139.9	128.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)