

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: P648162

Luminaire Tested: **GALN-SA9A-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648162
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-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 27981.3 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

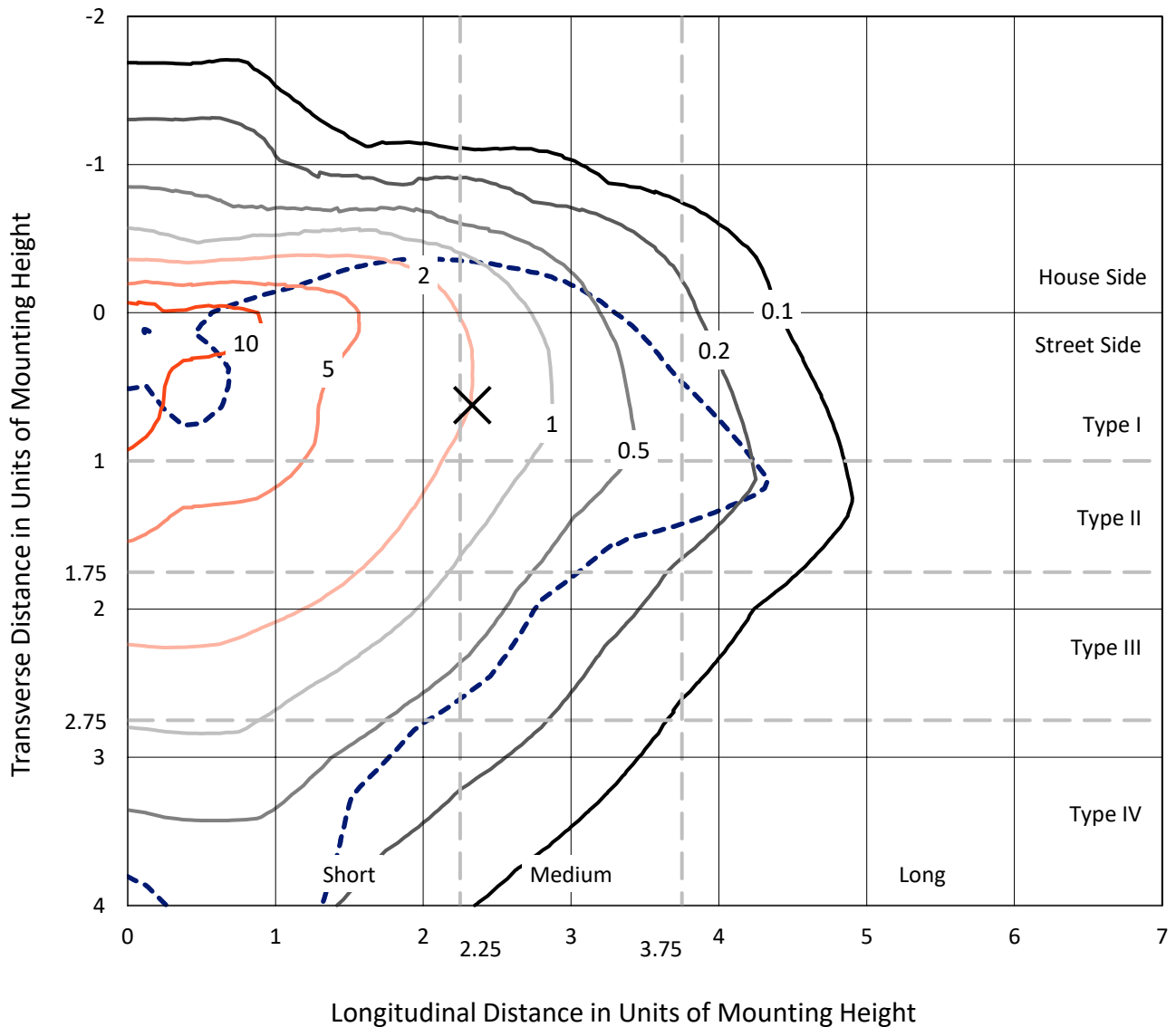
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

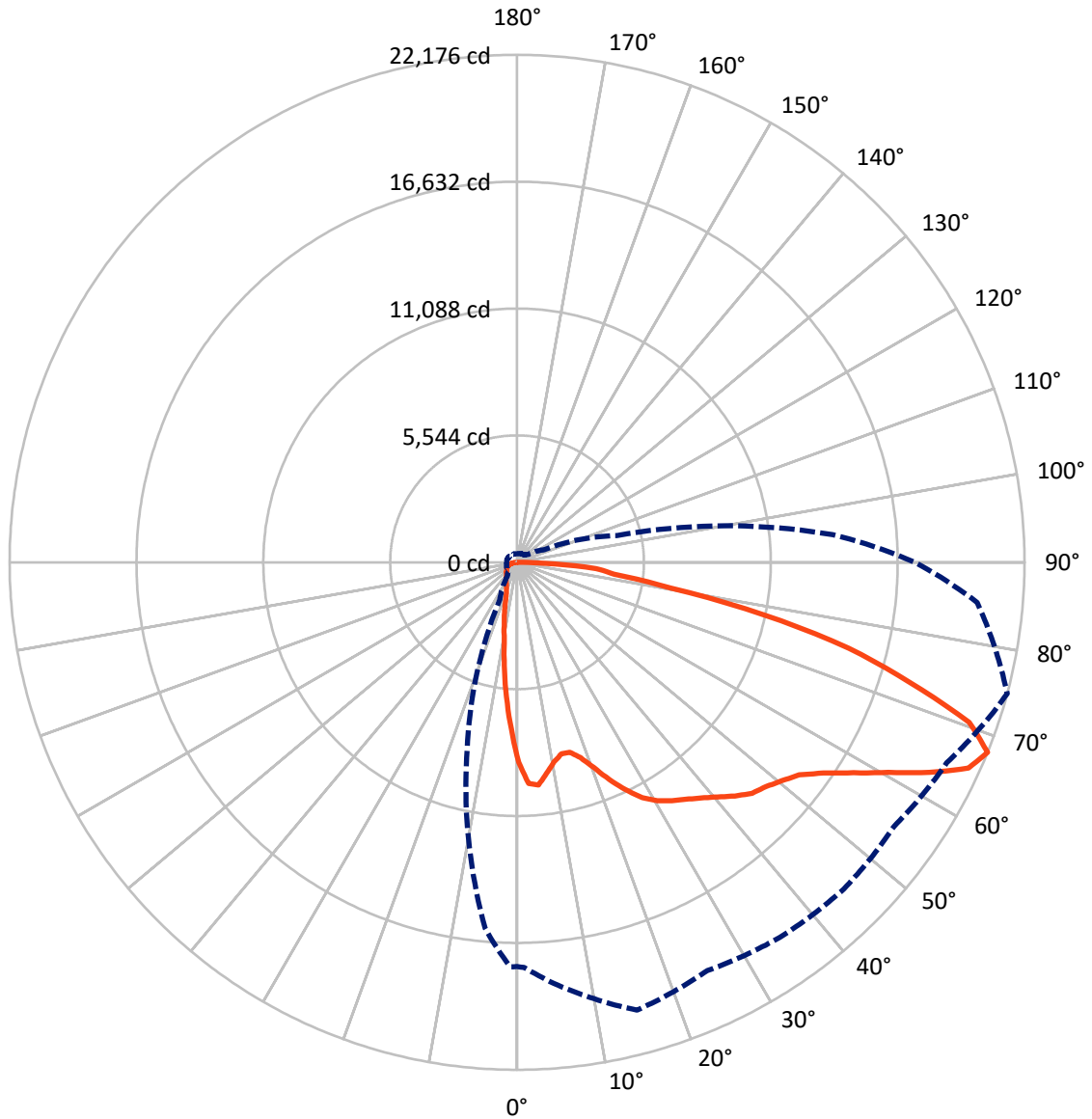
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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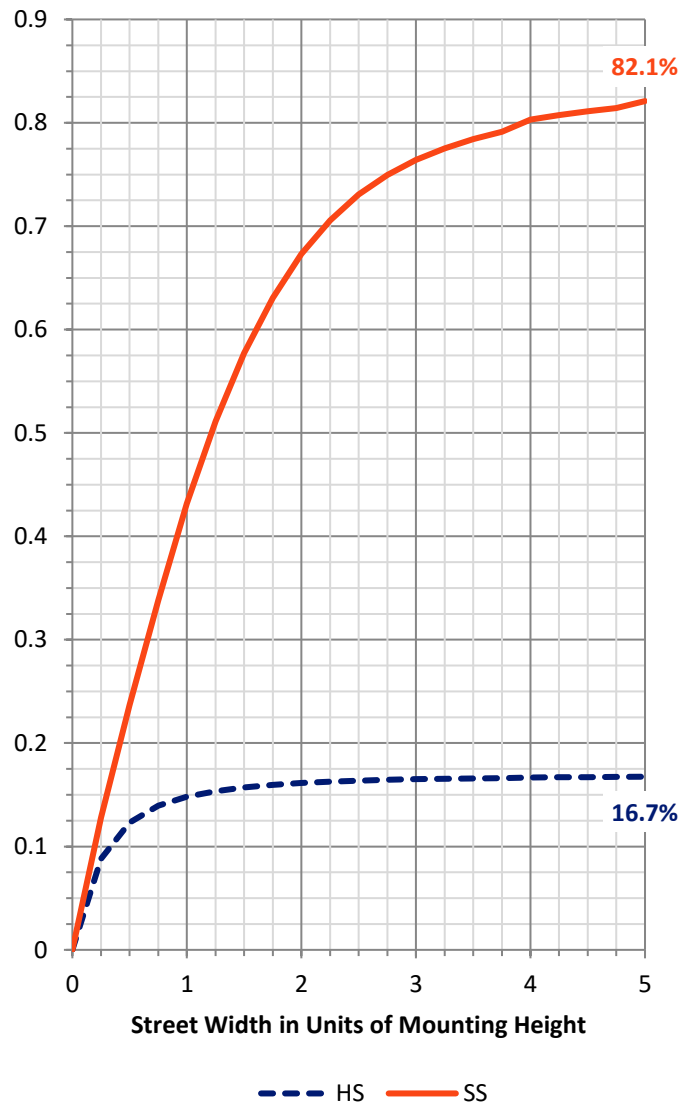
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4729.4	0.0	4729.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	23251.9	0.0	23251.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	27981.3	0.0	27981.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.1	2.4
10°-20°	1382.8	4.9
20°-30°	1989.9	7.1
30°-40°	2866.0	10.2
40°-50°	4026.0	14.4
50°-60°	5614.8	20.1
60°-70°	6675.7	23.9
70°-80°	3931.6	14.1
80°-90°	831.4	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°	27981.3	100.0
0°-180°	27981.3	100.0

Coefficient of Utilization

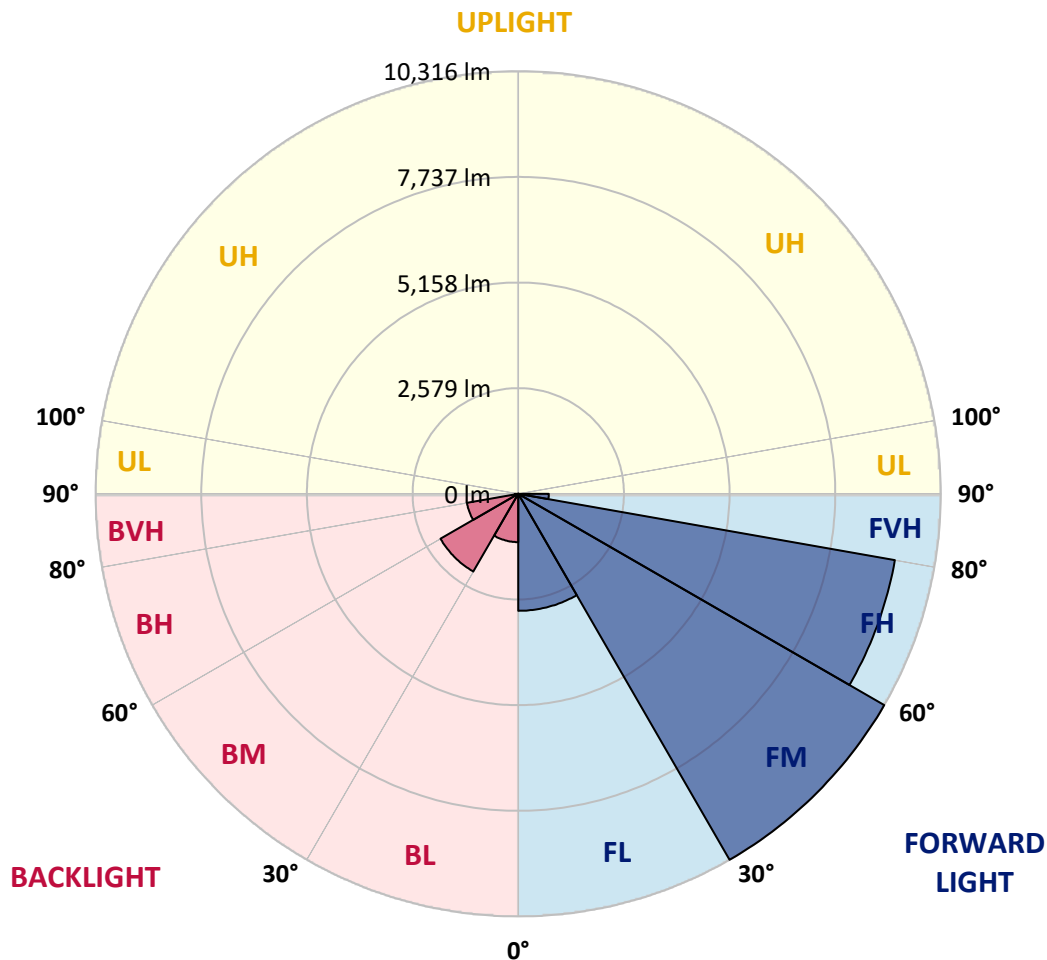


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2856.1	10.2			
FM (30°-60°)	10315.7	36.9			
FH (60°-80°)	9334.7	33.4			G4/12000
FVH (80°-90°)	745.4	2.7			G4/750
BL (0°-30°)	1179.7	4.2	B3/2500		
BM (30°-60°)	2191.2	7.8	B2/2500		
BH (60°-80°)	1272.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	86.0	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°	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0
2.5°	9425.7	9438.2	9518.9	9754.0	9915.5	9974.7	10016.0	9938.9	9863.5	9680.5	9404.1
5°	9396.9	9470.5	9680.5	10208.0	10624.3	10803.7	10857.5	10626.1	10243.9	9773.8	9208.5
7.5°	8847.9	8946.6	9269.5	10154.2	10888.0	11307.9	11252.3	10834.2	10145.2	9307.2	8517.7
10°	8196.5	8306.0	8695.4	9764.8	10710.4	11288.2	11288.2	10778.6	9863.5	8867.6	7957.9
12.5°	7679.7	7794.6	8239.6	9364.7	10340.8	10888.0	10979.5	10541.8	9660.7	8589.5	7590.1
15°	7509.3	7620.5	8099.7	9122.4	9949.6	10283.4	10313.8	10170.3	9562.0	8609.2	7573.9
17.5°	7721.0	7864.6	8349.1	9194.2	9590.7	9610.5	9633.8	9746.9	9572.8	8969.9	7900.5
20°	8332.9	8487.3	8993.2	9425.7	9276.7	9072.2	9084.8	9375.4	9700.2	9565.6	8681.0
22.5°	9215.8	9350.3	9868.9	9833.0	9144.0	8722.3	8634.4	9039.9	9888.6	10308.5	9511.8
25°	10168.5	10326.4	10922.1	10437.7	9181.6	8514.1	8458.5	8842.5	10084.2	11002.9	10471.8
27.5°	11259.5	11413.8	11883.9	11047.7	9379.0	8498.0	8431.6	8824.6	10260.0	11645.2	11388.7
30°	12070.5	12212.3	12531.7	11560.9	9621.3	8605.6	8523.1	8966.3	10410.8	12084.9	12282.2
32.5°	12707.5	12854.7	13028.7	11880.3	9940.7	8801.2	8648.7	9224.7	10608.2	12420.4	12944.3
35°	13371.4	13545.4	13532.9	12163.8	10238.5	9027.3	8878.4	9597.9	10918.5	12712.9	13784.1
37.5°	14212.9	14282.9	14193.2	12418.6	10595.6	9434.6	9352.1	10152.4	11359.9	13066.4	14765.6
40°	15067.0	15207.0	14745.8	12727.3	11029.8	10200.8	10191.8	10972.4	11883.9	13480.8	15716.6
42.5°	15799.1	15917.6	15262.6	12996.4	11555.5	11135.7	11203.9	12072.3	12571.1	13961.8	16481.0
45°	16350.0	16455.8	15739.9	13256.6	12248.2	12215.8	12617.8	13251.2	13437.8	14394.2	16929.6
47.5°	16818.4	16920.6	16071.9	13651.3	13104.1	13506.0	14205.8	14480.3	14178.9	14641.8	17432.0
50°	17213.1	17243.6	16299.8	14121.4	14166.3	15086.8	15765.1	15942.7	14911.0	14997.1	17868.1
52.5°	17624.0	17584.5	16692.7	14713.6	15314.7	16586.8	17080.3	17265.2	15612.6	15434.9	18503.2
55°	18544.5	18582.2	17573.7	15460.0	16475.7	18060.1	18709.6	18532.0	16389.5	16240.6	19310.7
57.5°	19657.0	19624.6	18813.6	16628.1	17658.1	19430.9	19915.4	19630.0	17426.6	17347.7	20128.9
60°	20089.4	20132.5	19850.8	17884.2	18824.4	20631.3	21126.5	20683.3	18670.1	18634.2	20746.1
62.5°	19655.2	19897.4	20087.6	19002.1	19818.4	21514.1	22005.7	21499.8	19967.4	20227.6	21178.6
65°	18790.3	18842.3	19490.1	19949.4	20297.6	21659.4	21916.0	21646.9	21051.2	21679.2	21158.9
67.5°	17667.1	17711.9	18470.9	20259.9	19680.3	20008.7	20188.1	20109.2	20715.7	22176.2	20184.5
70°	16597.6	16561.8	17363.8	19468.6	17132.4	16633.5	16782.4	16534.8	17875.2	20961.5	18273.6
72.5°	14516.2	14645.4	15506.7	17268.7	13565.2	12754.1	13078.9	12438.3	13748.2	17952.4	14832.0
75°	11370.7	11401.3	12838.5	14492.9	10233.1	8953.8	9393.3	9126.0	10531.0	14975.6	10242.1
77.5°	7873.5	7805.3	9350.3	11069.3	7297.6	6554.7	6561.9	6434.5	7353.2	11026.2	6958.4
80°	5000.8	4896.7	5853.2	6838.3	5015.2	5365.0	5189.3	5183.9	4787.3	6802.3	4207.7
82.5°	2702.3	2817.1	3698.1	4286.7	3597.7	4146.7	3800.4	3689.2	3285.5	4258.0	2691.5
85°	1231.0	1338.5	1972.0	2915.8	2732.7	2763.3	1846.4	2178.3	2718.4	3457.7	1437.3
87.5°	120.2	154.3	407.3	1376.3	933.0	735.7	274.5	529.3	683.6	1229.2	114.9
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°	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0
2.5°	9291.1	9197.7	8880.2	8618.2	8340.0	8128.3	7852.0	7667.2	7539.8	7347.8	7324.5
5°	8864.0	8636.2	8083.5	7520.1	7033.8	6667.8	6296.3	5955.4	5754.4	5691.6	5610.9
7.5°	8144.5	7760.5	7050.0	6404.0	5846.0	5300.4	4880.6	4582.7	4383.5	4267.0	4127.0
10°	7552.3	7107.4	6242.5	5451.2	4991.9	4652.7	4283.1	3963.7	3717.8	3507.9	3393.1
12.5°	7154.0	6651.6	5679.1	5036.7	4681.4	4320.8	3888.3	3529.5	3167.0	2928.3	2826.1
15°	7033.8	6502.7	5505.0	4830.3	4320.8	3848.8	3364.4	2896.1	2537.2	2311.1	2235.8
17.5°	7328.1	6685.7	5503.2	4555.8	3897.3	3333.9	2713.0	2273.4	1905.6	1736.9	1683.1
20°	7877.1	7037.4	5519.4	4284.9	3437.9	2644.8	1973.8	1613.1	1437.3	1365.5	1338.5
22.5°	8643.3	7573.9	5567.8	4017.5	2935.5	2031.2	1478.5	1295.5	1232.7	1220.1	1214.7
25°	9587.1	8237.8	5731.1	3777.1	2512.1	1550.3	1236.3	1153.8	1117.9	1105.3	1103.5
27.5°	10455.6	9095.5	5928.5	3570.7	2103.0	1336.8	1117.9	1047.9	1012.0	1010.2	1013.8
30°	11239.7	9813.3	6093.5	3339.3	1792.5	1187.9	1040.7	970.8	936.6	934.8	945.6
32.5°	11918.0	10403.6	6215.6	3111.4	1620.3	1096.4	970.8	895.4	866.7	861.3	866.7
35°	12642.9	10992.1	6159.9	2933.7	1521.6	1021.0	918.7	845.2	811.0	794.9	794.9
37.5°	13470.1	11598.6	6064.9	2786.6	1476.7	958.2	873.8	802.1	768.0	751.8	750.0
40°	14372.7	12205.1	5933.9	2655.6	1431.9	920.5	843.4	768.0	726.7	710.6	707.0
42.5°	15169.4	12723.7	5826.2	2569.5	1358.3	927.7	816.4	742.8	690.8	669.3	667.5
45°	15861.9	13245.8	5806.5	2519.2	1297.3	916.9	809.2	723.1	662.1	638.8	635.2
47.5°	16403.9	13789.5	5919.6	2490.6	1231.0	859.5	855.9	710.6	637.0	611.8	608.3
50°	17064.2	14561.1	6177.9	2431.3	1169.9	805.6	904.4	708.8	617.2	585.0	576.0
52.5°	17943.4	15565.9	6527.8	2325.4	1081.9	755.4	863.1	708.8	593.9	561.6	550.8
55°	19273.0	16847.0	6870.5	2176.5	958.2	689.0	778.8	687.2	559.8	531.1	524.0
57.5°	20154.0	17783.7	7089.4	1970.2	803.8	640.6	671.1	653.1	525.7	495.2	495.2
60°	20198.9	18034.9	6985.4	1710.0	707.0	595.7	583.2	658.5	495.2	462.9	459.4
62.5°	19682.1	17419.4	6443.5	1476.7	654.9	547.2	527.5	577.8	464.7	432.5	427.0
65°	18874.6	15849.4	5503.2	1365.5	626.2	504.2	475.5	473.7	432.5	401.9	394.8
67.5°	17390.7	13850.5	4521.7	1300.9	611.8	455.8	428.8	419.8	394.8	369.7	366.1
70°	15203.4	11600.4	3626.4	1274.0	604.7	405.5	384.0	373.3	351.7	331.9	330.2
72.5°	11828.3	9409.5	2992.9	1256.0	601.1	358.8	335.5	321.2	308.7	290.6	290.6
75°	8496.2	6922.6	2284.2	1132.2	556.2	308.7	283.5	274.5	256.6	242.3	245.9
77.5°	5356.1	4661.7	1503.7	832.6	430.6	247.6	226.1	220.7	206.3	186.6	199.2
80°	3617.4	3278.3	877.4	524.0	270.9	181.3	174.1	172.3	156.1	134.6	136.4
82.5°	2461.8	2415.2	455.8	297.9	156.1	105.9	102.3	105.9	87.9	71.8	71.8
85°	961.8	1313.5	215.3	116.7	50.3	16.1	23.3	25.1	14.3	7.2	9.0
87.5°	17.9	134.6	5.4	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°	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0
2.5°	7288.6	7272.4	7299.4	7184.5	7207.8	7250.9	7272.4	7285.0	7462.6	7421.4	7534.4
5°	5686.2	5670.1	5774.2	5788.6	5842.4	5831.6	5883.6	5896.2	5960.8	5984.2	6142.0
7.5°	4136.0	4206.0	4324.4	4385.3	4476.9	4505.6	4478.7	4545.1	4410.5	4507.3	4536.1
10°	3323.1	3238.8	3188.5	3328.5	3346.5	3479.3	3425.4	3382.3	3461.3	3464.9	3540.3
12.5°	2766.9	2585.6	2465.4	2504.9	2548.0	2605.4	2614.4	2700.5	2757.9	2811.8	2856.6
15°	2169.4	2106.6	1997.1	1943.2	2004.2	2027.6	2083.2	2155.0	2216.0	2232.2	2293.2
17.5°	1665.1	1675.9	1658.0	1625.7	1663.3	1681.3	1684.9	1686.7	1702.8	1692.1	1781.8
20°	1340.3	1378.1	1422.9	1430.1	1442.7	1451.6	1435.5	1374.5	1376.3	1413.9	1442.7
22.5°	1212.9	1220.1	1270.4	1286.5	1326.0	1309.9	1263.2	1234.5	1231.0	1239.9	1254.2
25°	1112.5	1123.3	1159.2	1184.3	1214.7	1186.1	1151.9	1125.0	1121.5	1130.4	1144.8
27.5°	1022.8	1038.9	1071.2	1096.4	1125.0	1098.2	1065.8	1042.5	1040.7	1038.9	1047.9
30°	951.0	969.0	992.3	1021.0	1040.7	1017.4	986.9	974.3	972.6	969.0	972.6
32.5°	879.2	908.0	931.3	945.6	965.4	947.4	924.1	916.9	904.4	893.6	888.2
35°	798.5	829.0	864.9	882.8	902.6	884.6	868.4	838.0	816.4	814.6	818.2
37.5°	751.8	764.4	793.1	823.6	843.4	834.4	803.8	773.4	768.0	768.0	771.6
40°	710.6	716.0	728.5	768.0	803.8	777.0	739.2	730.3	730.3	728.5	730.3
42.5°	669.3	674.6	674.6	705.2	762.6	719.5	690.8	690.8	690.8	692.6	698.0
45°	631.6	633.4	631.6	653.1	707.0	671.1	651.4	656.7	660.3	663.9	667.5
47.5°	599.3	601.1	599.3	617.2	644.2	629.8	619.0	626.2	633.4	638.8	642.4
50°	570.6	568.8	572.4	583.2	595.7	599.3	592.1	602.9	606.5	613.6	622.6
52.5°	545.5	543.7	547.2	552.6	570.6	570.6	570.6	579.6	586.8	593.9	606.5
55°	516.8	518.6	524.0	531.1	554.4	550.8	552.6	559.8	567.0	577.8	585.0
57.5°	489.8	493.4	500.7	511.4	534.7	532.9	534.7	538.3	547.2	552.6	559.8
60°	459.4	466.5	475.5	482.6	506.0	504.2	513.2	520.4	525.7	525.7	529.3
62.5°	428.8	439.6	448.6	454.0	479.1	480.9	493.4	498.8	502.5	498.8	504.2
65°	398.3	414.5	418.0	425.2	450.4	452.2	466.5	479.1	475.5	471.9	480.9
67.5°	367.9	387.6	385.8	394.8	419.8	423.4	436.1	457.6	450.4	446.8	454.0
70°	333.7	348.1	349.9	355.2	389.4	384.0	403.7	423.4	418.0	419.8	419.8
72.5°	296.1	308.7	308.7	319.4	355.2	346.3	362.5	384.0	384.0	382.2	382.2
75°	251.2	258.4	265.6	281.7	319.4	308.7	319.4	339.1	342.7	339.1	339.1
77.5°	202.8	213.5	217.1	238.7	265.6	263.8	274.5	283.5	290.6	287.1	287.1
80°	143.5	154.3	168.7	192.0	208.1	213.5	218.9	226.1	229.7	229.7	233.3
82.5°	80.7	96.9	109.5	132.8	139.9	166.9	165.1	170.5	165.1	145.3	161.5
85°	17.9	34.1	48.5	61.0	70.0	96.9	102.3	114.9	95.1	87.9	87.9
87.5°	0.0	0.0	0.0	0.0	0.0	14.3	28.7	39.5	34.1	28.7	28.7
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°	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0	8742.0
2.5°	7629.6	7785.6	7974.1	8298.8	8526.7	8772.5	9020.2	9283.9	9353.9	9425.7
5°	6185.1	6491.9	6658.8	7094.8	7552.3	8133.7	8609.2	9129.6	9346.7	9396.9
7.5°	4685.0	4893.1	5331.0	5772.4	6339.4	6949.4	7677.9	8489.1	8742.0	8847.9
10°	3714.3	3997.8	4381.7	4855.5	5352.5	6009.2	6831.0	7778.5	8137.3	8196.5
12.5°	3161.6	3477.5	3895.5	4396.2	4866.3	5361.5	6190.5	7168.4	7552.3	7679.7
15°	2528.2	2910.4	3393.1	3920.6	4432.0	4973.9	5813.6	6917.2	7360.4	7509.3
17.5°	1986.3	2295.0	2817.1	3389.5	3996.0	4681.4	5734.7	7037.4	7582.9	7721.0
20°	1519.8	1740.5	2180.1	2784.8	3495.4	4392.6	5754.4	7491.4	8144.5	8332.9
22.5°	1313.5	1426.5	1693.9	2269.8	3064.7	4141.4	5835.2	8114.0	8901.7	9215.8
25°	1189.6	1248.9	1399.6	1776.4	2653.8	3897.3	6020.0	8952.0	9960.4	10168.5
27.5°	1083.8	1126.8	1220.1	1491.1	2280.6	3671.3	6235.3	9881.5	10949.1	11259.5
30°	983.3	1040.7	1128.6	1324.2	2042.0	3464.9	6506.3	10635.0	11781.6	12070.5
32.5°	906.2	963.6	1044.3	1207.6	1839.2	3247.7	6667.8	11297.1	12461.7	12707.5
35°	843.4	891.8	976.1	1114.3	1684.9	3082.7	6635.5	11822.9	13120.2	13371.4
37.5°	798.5	839.8	924.1	1026.4	1568.3	2910.4	6619.3	12517.3	13922.3	14212.9
40°	757.2	800.3	877.4	969.0	1451.6	2707.7	6628.3	13206.3	14776.4	15067.0
42.5°	724.9	773.4	836.2	952.8	1331.4	2544.4	6628.3	13805.6	15519.2	15799.1
45°	698.0	750.0	811.0	951.0	1236.3	2420.6	6583.5	14320.6	16111.4	16350.0
47.5°	674.6	732.1	820.0	918.7	1212.9	2330.8	6543.9	14733.3	16594.0	16818.4
50°	658.5	726.7	820.0	881.0	1220.1	2303.9	6734.1	15253.7	17019.3	17213.1
52.5°	646.0	728.5	870.2	825.4	1207.6	2321.9	7130.7	16066.5	17609.7	17624.0
55°	620.8	726.7	825.4	762.6	1155.6	2352.4	7640.3	17247.2	18533.7	18544.5
57.5°	595.7	707.0	766.2	708.8	1049.7	2352.4	8254.0	18365.0	19648.0	19657.0
60°	570.6	735.7	672.9	662.1	911.5	2309.3	8901.7	18856.7	19997.9	20089.4
62.5°	545.5	741.0	601.1	620.8	811.0	2205.2	9384.4	18313.0	19524.2	19655.2
65°	516.8	597.5	554.4	577.8	759.0	2031.2	9231.9	17317.1	18634.2	18790.3
67.5°	482.6	506.0	504.2	532.9	741.0	1774.6	8428.0	16057.5	17676.0	17667.1
70°	441.4	454.0	459.4	489.8	707.0	1575.4	7023.0	14422.9	16396.6	16597.6
72.5°	398.3	409.1	414.5	441.4	672.9	1462.4	5451.2	12171.0	14202.2	14516.2
75°	351.7	358.8	366.1	389.4	637.0	1295.5	3883.0	9291.1	10877.3	11370.7
77.5°	303.3	303.3	312.2	335.5	536.5	1069.4	2605.4	6517.1	7369.4	7873.5
80°	245.9	247.6	244.1	269.1	394.8	732.1	1480.3	4353.1	4903.9	5000.8
82.5°	188.4	183.0	184.8	197.4	294.3	498.8	789.5	2704.1	2756.1	2702.3
85°	118.4	118.4	114.9	129.2	188.4	260.2	430.6	1656.2	1293.8	1231.0
87.5°	48.5	39.5	44.9	52.1	89.7	105.9	168.7	340.9	131.0	120.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)