

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: P652342

Luminaire Tested: **GALN-SA4B-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652342
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-SA4B-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 16317.9 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

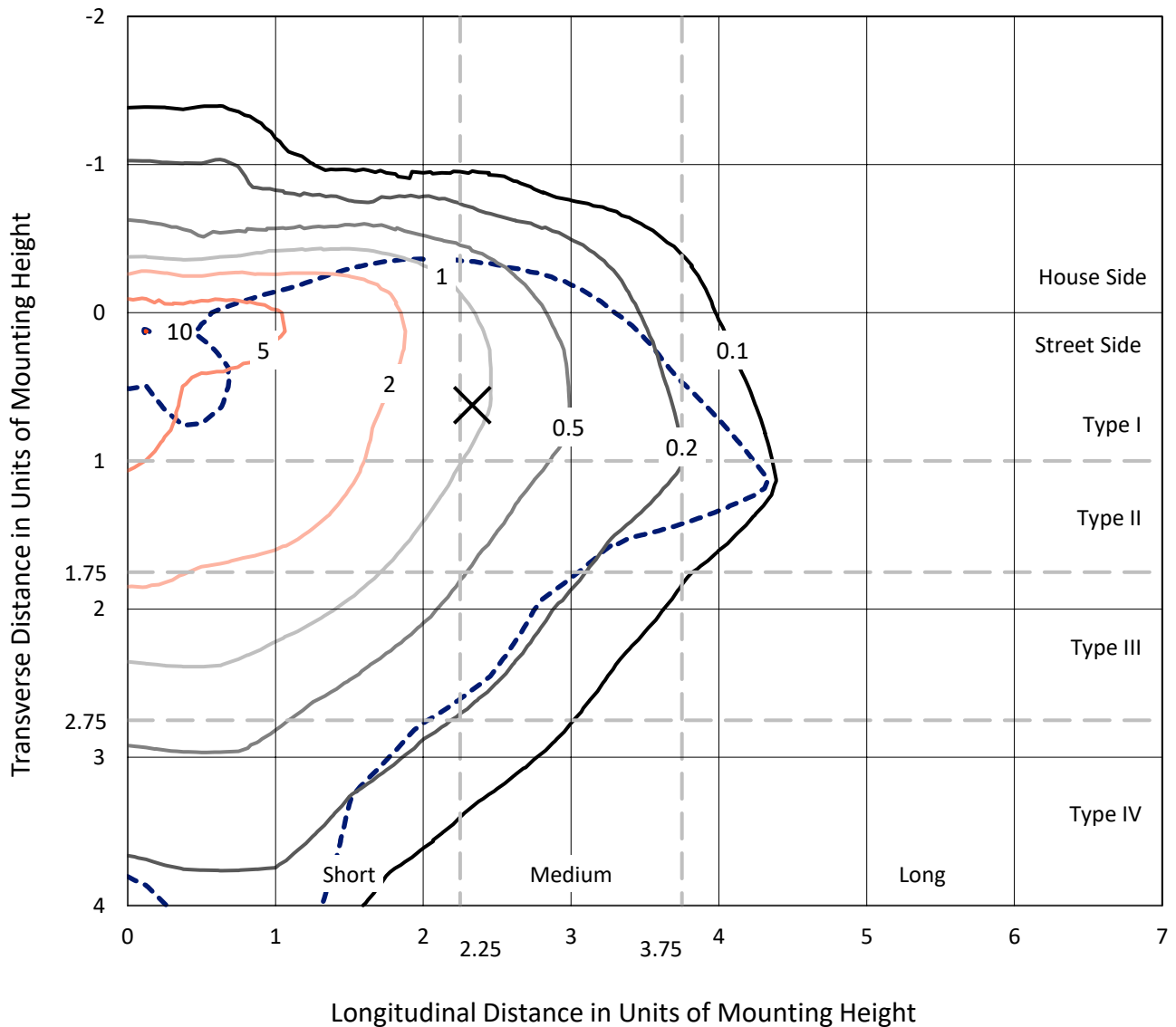
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

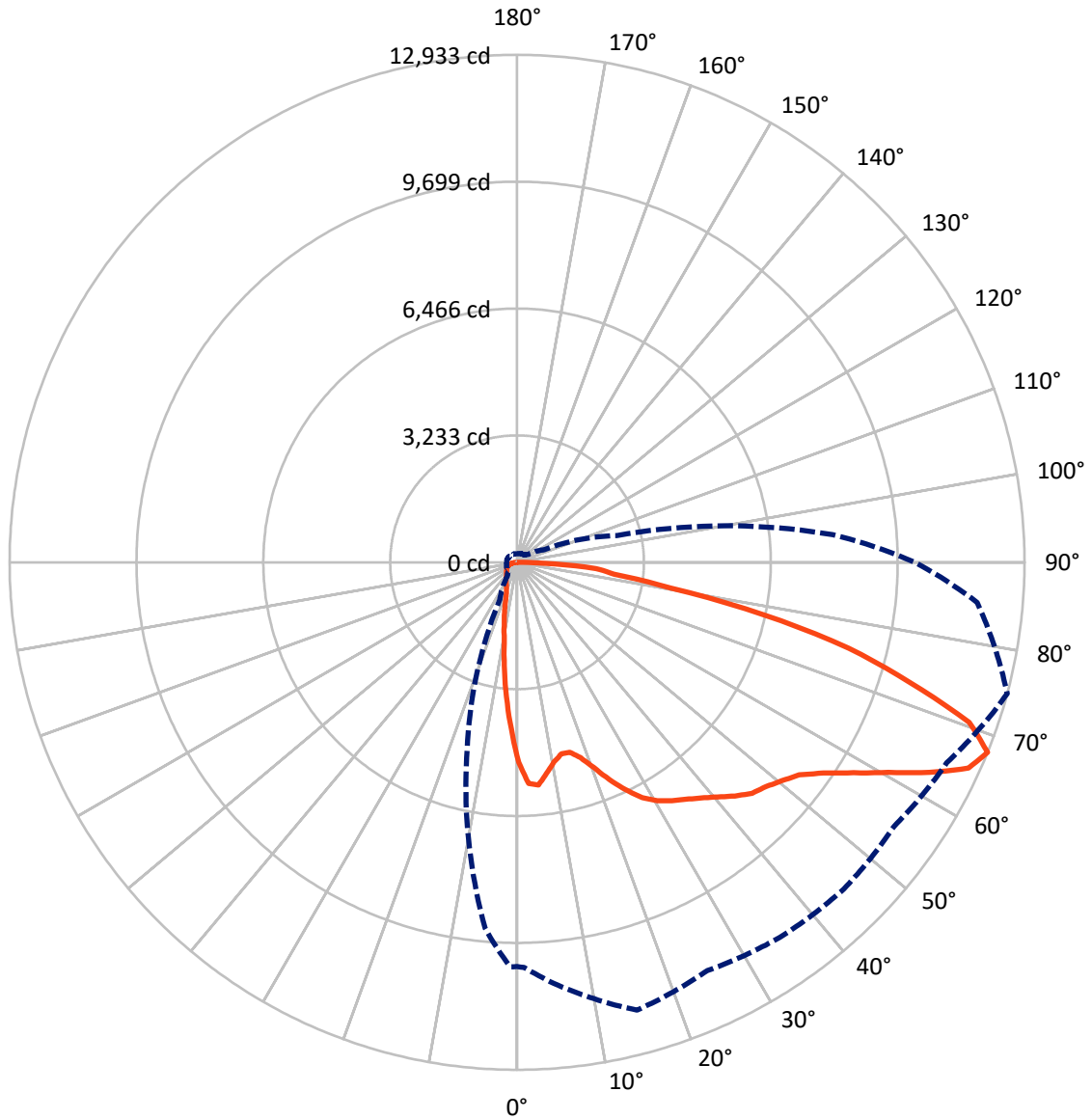
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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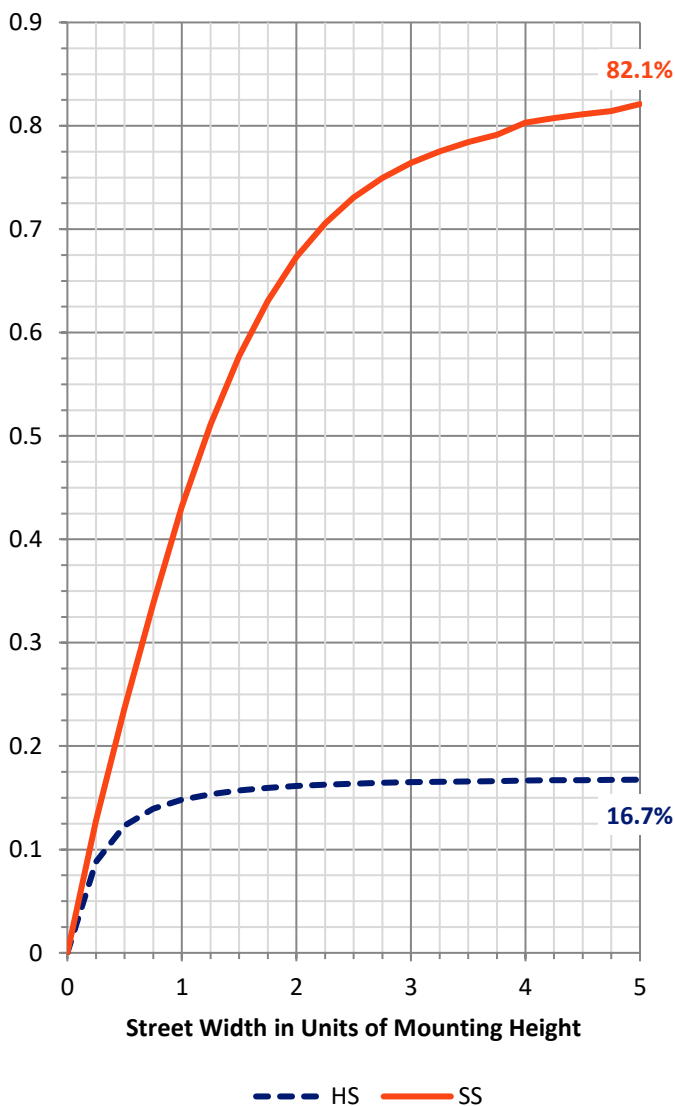
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2758.1	0.0	2758.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	13559.8	0.0	13559.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	16317.9	0.0	16317.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	2.4
10°-20°	806.4	4.9
20°-30°	1160.5	7.1
30°-40°	1671.4	10.2
40°-50°	2347.8	14.4
50°-60°	3274.4	20.1
60°-70°	3893.1	23.9
70°-80°	2292.8	14.1
80°-90°	484.8	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°	16317.9	100.0
0°-180°	16317.9	100.0

Coefficient of Utilization

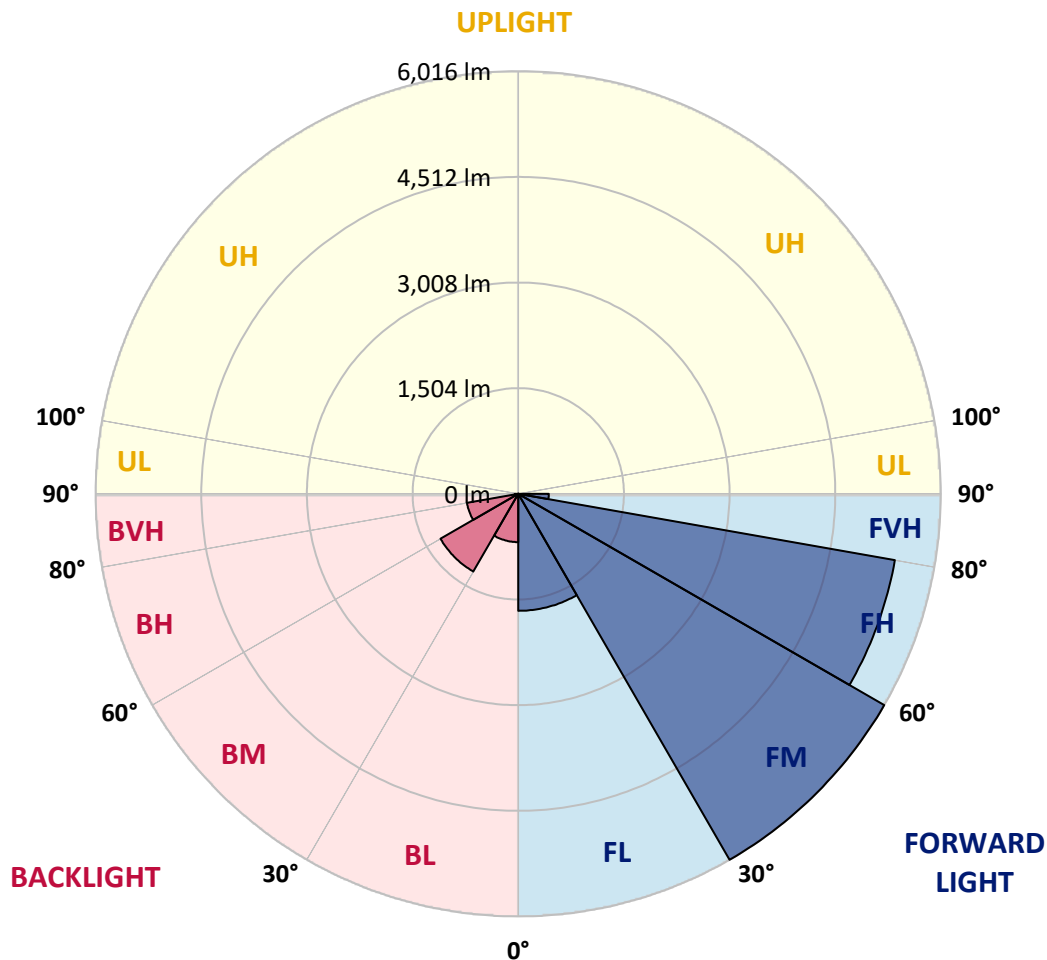


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1665.6	10.2			
FM (30°-60°)	6015.8	36.9			
FH (60°-80°)	5443.7	33.4			G3/7500
FVH (80°-90°)	434.7	2.7			G3/500
BL (0°-30°)	688.0	4.2	B2/1000		
BM (30°-60°)	1277.8	7.8	B2/2500		
BH (60°-80°)	742.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	50.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1
2.5°	5496.8	5504.1	5551.2	5688.3	5782.5	5817.0	5841.1	5796.1	5752.1	5645.4	5484.2
5°	5480.0	5522.9	5645.4	5953.0	6195.8	6300.4	6331.8	6196.8	5974.0	5699.8	5370.2
7.5°	5159.9	5217.4	5405.8	5921.6	6349.6	6594.4	6562.1	6318.2	5916.4	5427.7	4967.3
10°	4780.0	4843.8	5070.9	5694.6	6246.0	6582.9	6582.9	6285.8	5752.1	5171.4	4640.8
12.5°	4478.7	4545.6	4805.1	5461.2	6030.5	6349.6	6403.0	6147.6	5633.9	5009.2	4426.4
15°	4379.3	4444.1	4723.5	5319.9	5802.3	5997.0	6014.7	5931.1	5576.3	5020.7	4416.9
17.5°	4502.7	4586.4	4869.0	5361.8	5593.1	5604.6	5618.1	5684.1	5582.6	5231.0	4607.3
20°	4859.6	4949.5	5244.6	5496.8	5409.9	5290.6	5298.0	5467.5	5656.9	5578.4	5062.6
22.5°	5374.3	5452.9	5755.2	5734.4	5332.5	5086.6	5035.3	5271.8	5766.7	6011.6	5547.0
25°	5930.0	6022.1	6369.5	6087.0	5354.5	4965.2	4932.8	5156.7	5880.9	6416.6	6106.8
27.5°	6566.2	6656.2	6930.3	6442.7	5469.6	4955.8	4917.1	5146.2	5983.4	6791.2	6641.5
30°	7039.2	7121.8	7308.1	6742.0	5610.8	5018.6	4970.5	5228.9	6071.3	7047.6	7162.6
32.5°	7410.6	7496.5	7598.0	6928.2	5797.1	5132.6	5043.7	5379.6	6186.4	7243.3	7548.8
35°	7797.8	7899.3	7892.0	7093.6	5970.8	5264.5	5177.6	5597.3	6367.4	7413.8	8038.5
37.5°	8288.6	8329.4	8277.1	7242.2	6179.1	5502.0	5453.9	5920.6	6624.8	7620.0	8610.9
40°	8786.7	8868.3	8599.4	7422.2	6432.3	5948.8	5943.6	6398.8	6930.3	7861.7	9165.5
42.5°	9213.7	9282.7	8900.7	7579.2	6738.8	6494.0	6533.8	7040.3	7331.2	8142.1	9611.3
45°	9534.9	9596.7	9179.1	7730.9	7142.8	7123.9	7358.3	7727.7	7836.5	8394.3	9872.8
47.5°	9808.0	9867.6	9372.7	7961.1	7641.9	7876.3	8284.4	8444.5	8268.7	8538.7	10165.8
50°	10038.2	10056.0	9505.6	8235.2	8261.4	8798.2	9193.7	9297.3	8695.7	8745.9	10420.2
52.5°	10277.9	10254.8	9734.7	8580.6	8931.1	9673.0	9960.8	10068.5	9104.8	9001.2	10790.5
55°	10814.7	10836.6	10248.5	9015.9	9608.1	10532.1	10910.9	10807.4	9557.9	9471.1	11261.5
57.5°	11463.4	11444.6	10971.6	9697.1	10297.7	11331.5	11614.1	11447.7	10162.7	10116.7	11738.6
60°	11715.6	11740.7	11576.4	10429.6	10977.9	12031.6	12320.4	12062.0	10887.9	10867.0	12098.5
62.5°	11462.3	11603.6	11714.5	11081.4	11557.6	12546.5	12833.2	12538.0	11644.4	11796.2	12350.8
65°	10958.0	10988.3	11366.1	11634.0	11837.0	12631.2	12780.8	12623.9	12276.5	12642.8	12339.2
67.5°	10302.9	10329.1	10771.7	11815.0	11477.0	11668.5	11773.2	11727.1	12080.8	12932.6	11771.1
70°	9679.3	9658.4	10126.1	11353.5	9991.1	9700.2	9787.1	9642.7	10424.4	12224.2	10656.6
72.5°	8465.4	8540.8	9043.1	10070.6	7910.9	7437.9	7627.3	7253.7	8017.6	10469.4	8649.6
75°	6631.1	6648.9	7487.1	8451.9	5967.7	5221.6	5477.9	5322.0	6141.4	8733.4	5972.9
77.5°	4591.6	4551.9	5452.9	6455.3	4255.7	3822.5	3826.7	3752.5	4288.2	6430.2	4058.0
80°	2916.3	2855.6	3413.4	3987.9	2924.7	3128.8	3026.3	3023.1	2791.8	3966.9	2453.9
82.5°	1575.9	1642.9	2156.7	2499.9	2098.0	2418.2	2216.3	2151.4	1916.0	2483.1	1569.6
85°	717.9	780.6	1150.0	1700.4	1593.7	1611.4	1076.7	1270.3	1585.3	2016.5	838.1
87.5°	70.1	90.0	237.5	802.6	544.1	429.0	160.1	308.7	398.7	716.8	66.9
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°	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1
2.5°	5418.3	5363.9	5178.7	5025.9	4863.7	4740.2	4579.1	4471.3	4397.0	4285.1	4271.4
5°	5169.3	5036.3	4714.1	4385.5	4101.9	3888.4	3671.9	3473.0	3355.8	3319.2	3272.2
7.5°	4749.6	4525.8	4111.3	3734.6	3409.2	3091.1	2846.2	2672.5	2556.4	2488.4	2406.8
10°	4404.3	4144.9	3640.4	3179.0	2911.1	2713.3	2497.8	2311.5	2168.2	2045.7	1978.8
12.5°	4172.0	3879.0	3311.9	2937.3	2730.1	2519.7	2267.6	2058.3	1846.9	1707.7	1648.1
15°	4101.9	3792.2	3210.3	2816.9	2519.7	2244.5	1962.1	1688.9	1479.7	1347.8	1303.8
17.5°	4273.5	3899.0	3209.3	2656.8	2272.8	1944.2	1582.2	1325.8	1111.3	1012.9	981.5
20°	4593.7	4104.0	3218.8	2498.9	2004.9	1542.4	1151.1	940.7	838.1	796.3	780.6
22.5°	5040.5	4416.9	3247.0	2342.9	1711.9	1184.5	862.3	755.5	718.9	711.6	708.5
25°	5591.0	4804.0	3342.2	2202.7	1464.9	904.1	721.0	672.8	651.9	644.6	643.5
27.5°	6097.4	5304.3	3457.4	2082.3	1226.4	779.6	651.9	611.1	590.2	589.1	591.2
30°	6554.7	5722.8	3553.6	1947.3	1045.4	692.7	606.9	566.1	546.2	545.2	551.4
32.5°	6950.3	6067.1	3624.8	1814.5	944.9	639.3	566.1	522.2	505.4	502.2	505.4
35°	7373.0	6410.3	3592.3	1710.8	887.3	595.4	535.8	492.8	473.0	463.6	463.6
37.5°	7855.4	6764.0	3536.8	1625.1	861.2	558.8	509.6	467.8	447.8	438.4	437.4
40°	8381.7	7117.6	3460.5	1548.7	835.0	536.8	491.8	447.8	423.8	414.4	412.3
42.5°	8846.3	7420.1	3397.7	1498.5	792.1	541.0	476.1	433.2	402.8	390.3	389.3
45°	9250.2	7724.6	3386.2	1469.1	756.6	534.7	472.0	421.7	386.1	372.6	370.5
47.5°	9566.3	8041.6	3452.1	1452.4	717.9	501.2	499.1	414.4	371.5	356.8	354.7
50°	9951.4	8491.6	3602.8	1417.9	682.2	469.9	527.4	413.4	359.9	341.1	335.9
52.5°	10464.1	9077.6	3806.9	1356.1	631.0	440.5	503.3	413.4	346.3	327.5	321.3
55°	11239.5	9824.7	4006.7	1269.3	558.8	401.8	454.1	400.7	326.5	309.7	305.5
57.5°	11753.2	10371.0	4134.4	1149.0	468.8	373.6	391.3	380.9	306.6	288.8	288.8
60°	11779.5	10517.5	4073.6	997.3	412.3	347.4	340.1	384.0	288.8	270.0	267.9
62.5°	11478.1	10158.5	3757.7	861.2	381.9	319.2	307.6	336.9	271.1	252.2	249.0
65°	11007.2	9242.9	3209.3	796.3	365.2	294.0	277.3	276.3	252.2	234.4	230.2
67.5°	10141.8	8077.2	2637.0	758.7	356.8	265.8	250.1	244.9	230.2	215.5	213.4
70°	8866.2	6765.0	2114.8	742.9	352.6	236.5	224.0	217.7	205.1	193.6	192.5
72.5°	6898.0	5487.4	1745.4	732.5	350.5	209.2	195.7	187.3	180.0	169.5	169.5
75°	4954.8	4037.1	1332.1	660.3	324.4	180.0	165.3	160.1	149.6	141.3	143.4
77.5°	3123.6	2718.5	876.9	485.5	251.1	144.4	131.9	128.7	120.3	108.8	116.1
80°	2109.6	1911.8	511.7	305.5	158.0	105.7	101.5	100.4	91.0	78.5	79.6
82.5°	1435.7	1408.5	265.8	173.7	91.0	61.7	59.6	61.7	51.3	41.9	41.9
85°	560.9	766.0	125.6	68.0	29.3	9.4	13.6	14.6	8.4	4.2	5.2
87.5°	10.4	78.5	3.1	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°	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1
2.5°	4250.5	4241.1	4256.8	4189.9	4203.4	4228.5	4241.1	4248.4	4352.0	4328.0	4393.9
5°	3316.1	3306.6	3367.4	3375.7	3407.1	3400.8	3431.2	3438.5	3476.2	3489.8	3581.8
7.5°	2412.0	2452.8	2521.8	2557.4	2610.8	2627.5	2611.8	2650.6	2572.1	2628.5	2645.3
10°	1937.9	1888.8	1859.5	1941.1	1951.5	2029.0	1997.6	1972.5	2018.5	2020.6	2064.6
12.5°	1613.5	1507.9	1437.8	1460.8	1485.9	1519.4	1524.6	1574.9	1608.3	1639.7	1665.9
15°	1265.1	1228.4	1164.6	1133.2	1168.8	1182.4	1214.9	1256.7	1292.3	1301.7	1337.3
17.5°	971.1	977.3	966.9	948.1	970.0	980.5	982.5	983.6	993.1	986.7	1039.1
20°	781.7	803.7	829.8	834.0	841.3	846.6	837.1	801.6	802.6	824.6	841.3
22.5°	707.4	711.6	740.8	750.3	773.3	763.9	736.6	719.9	717.9	723.1	731.4
25°	648.7	655.1	676.0	690.6	708.5	691.6	671.8	656.1	654.0	659.3	667.6
27.5°	596.4	605.9	624.7	639.3	656.1	640.4	621.6	608.0	606.9	605.9	611.1
30°	554.6	565.1	578.7	595.4	606.9	593.3	575.5	568.2	567.2	565.1	567.2
32.5°	512.8	529.5	543.1	551.4	563.0	552.5	538.9	534.7	527.4	521.1	518.0
35°	465.7	483.4	504.3	514.9	526.4	515.9	506.5	488.7	476.1	475.1	477.2
37.5°	438.4	445.7	462.6	480.3	491.8	486.6	468.8	451.0	447.8	447.8	449.9
40°	414.4	417.6	424.9	447.8	468.8	453.1	431.1	425.9	425.9	424.9	425.9
42.5°	390.3	393.4	393.4	411.2	444.7	419.6	402.8	402.8	402.8	403.9	407.0
45°	368.4	369.4	368.4	380.9	412.3	391.3	379.9	383.0	385.1	387.2	389.3
47.5°	349.5	350.5	349.5	359.9	375.7	367.3	361.0	365.2	369.4	372.6	374.6
50°	332.8	331.7	333.8	340.1	347.4	349.5	345.3	351.6	353.7	357.8	363.1
52.5°	318.2	317.1	319.2	322.3	332.8	332.8	332.8	338.0	342.2	346.3	353.7
55°	301.3	302.4	305.5	309.7	323.4	321.3	322.3	326.5	330.7	336.9	341.1
57.5°	285.7	287.8	291.9	298.2	311.8	310.7	311.8	313.9	319.2	322.3	326.5
60°	267.9	272.1	277.3	281.5	295.1	294.0	299.3	303.4	306.6	306.6	308.7
62.5°	250.1	256.3	261.6	264.7	279.4	280.5	287.8	290.9	293.0	290.9	294.0
65°	232.3	241.7	243.8	248.0	262.6	263.7	272.1	279.4	277.3	275.2	280.5
67.5°	214.5	226.1	225.0	230.2	244.9	246.9	254.3	266.8	262.6	260.5	264.7
70°	194.6	203.0	204.0	207.2	227.1	224.0	235.5	246.9	243.8	244.9	244.9
72.5°	172.7	180.0	180.0	186.3	207.2	201.9	211.3	224.0	224.0	222.9	222.9
75°	146.5	150.7	154.8	164.2	186.3	180.0	186.3	197.8	199.9	197.8	197.8
77.5°	118.2	124.6	126.7	139.2	154.8	153.8	160.1	165.3	169.5	167.4	167.4
80°	83.7	90.0	98.4	111.9	121.4	124.6	127.7	131.9	134.0	134.0	136.1
82.5°	47.1	56.5	63.8	77.5	81.7	97.3	96.3	99.4	96.3	84.8	94.2
85°	10.4	19.8	28.3	35.6	40.8	56.5	59.6	66.9	55.4	51.3	51.3
87.5°	0.0	0.0	0.0	0.0	0.0	8.4	16.7	23.0	19.8	16.7	16.7
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°	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1	5098.1
2.5°	4449.3	4540.4	4650.2	4839.6	4972.5	5115.9	5260.3	5414.1	5454.9	5496.8
5°	3607.0	3785.9	3883.2	4137.5	4404.3	4743.4	5020.7	5324.1	5450.8	5480.0
7.5°	2732.2	2853.6	3108.8	3366.3	3697.0	4052.8	4477.6	4950.5	5098.1	5159.9
10°	2166.1	2331.4	2555.3	2831.6	3121.5	3504.4	3983.6	4536.2	4745.4	4780.0
12.5°	1843.8	2027.9	2271.8	2563.7	2837.9	3126.7	3610.1	4180.4	4404.3	4478.7
15°	1474.4	1697.3	1978.8	2286.4	2584.6	2900.6	3390.4	4033.9	4292.4	4379.3
17.5°	1158.4	1338.4	1642.9	1976.7	2330.3	2730.1	3344.3	4104.0	4422.1	4502.7
20°	886.3	1015.0	1271.4	1624.1	2038.4	2561.6	3355.8	4368.7	4749.6	4859.6
22.5°	766.0	831.9	987.8	1323.7	1787.3	2415.1	3402.9	4731.9	5191.2	5374.3
25°	693.7	728.3	816.2	1035.9	1547.6	2272.8	3510.7	5220.5	5808.6	5930.0
27.5°	632.0	657.2	711.6	869.6	1330.0	2140.9	3636.2	5762.6	6385.2	6566.2
30°	573.4	606.9	658.2	772.3	1190.8	2020.6	3794.3	6202.0	6870.7	7039.2
32.5°	528.4	562.0	609.0	704.3	1072.6	1894.0	3888.4	6588.2	7267.3	7410.6
35°	491.8	520.1	569.3	649.8	982.5	1797.7	3869.6	6894.8	7651.3	7797.8
37.5°	465.7	489.7	538.9	598.5	914.6	1697.3	3860.2	7299.7	8119.1	8288.6
40°	441.6	466.7	511.7	565.1	846.6	1579.1	3865.4	7701.5	8617.1	8786.7
42.5°	422.8	451.0	487.6	555.6	776.4	1483.8	3865.4	8051.1	9050.4	9213.7
45°	407.0	437.4	473.0	554.6	721.0	1411.6	3839.2	8351.4	9395.7	9534.9
47.5°	393.4	427.0	478.2	535.8	707.4	1359.3	3816.3	8592.1	9677.2	9808.0
50°	384.0	423.8	508.6	513.8	711.6	1343.6	3927.1	8895.5	9925.2	10038.2
52.5°	376.7	424.9	507.5	481.4	704.3	1354.1	4158.4	9369.6	10269.5	10277.9
55°	362.1	423.8	481.4	444.7	673.9	1371.8	4455.6	10058.1	10808.4	10814.7
57.5°	347.4	412.3	446.8	413.4	612.2	1371.8	4813.5	10710.0	11458.2	11463.4
60°	332.8	429.0	392.4	386.1	531.6	1346.7	5191.2	10996.7	11662.2	11715.6
62.5°	318.2	432.2	350.5	362.1	473.0	1286.1	5472.7	10679.7	11386.0	11462.3
65°	301.3	348.4	323.4	336.9	442.6	1184.5	5383.7	10098.9	10867.0	10958.0
67.5°	281.5	295.1	294.0	310.7	432.2	1034.9	4915.0	9364.3	10308.1	10302.9
70°	257.4	264.7	267.9	285.7	412.3	918.7	4095.7	8411.0	9562.1	9679.3
72.5°	232.3	238.6	241.7	257.4	392.4	852.9	3179.0	7097.8	8282.3	8465.4
75°	205.1	209.2	213.4	227.1	371.5	755.5	2264.4	5418.3	6343.3	6631.1
77.5°	176.9	176.9	182.1	195.7	312.9	623.7	1519.4	3800.6	4297.6	4591.6
80°	143.4	144.4	142.3	156.9	230.2	427.0	863.3	2538.6	2859.8	2916.3
82.5°	109.8	106.7	107.8	115.1	171.6	290.9	460.4	1577.0	1607.3	1575.9
85°	69.0	69.0	66.9	75.4	109.8	151.7	251.1	965.8	754.5	717.9
87.5°	28.3	23.0	26.2	30.4	52.3	61.7	98.4	198.8	76.4	70.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)