

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: P651957

Luminaire Tested: **GALN-SA6A-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651957
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-SA6A-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 19658.4 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

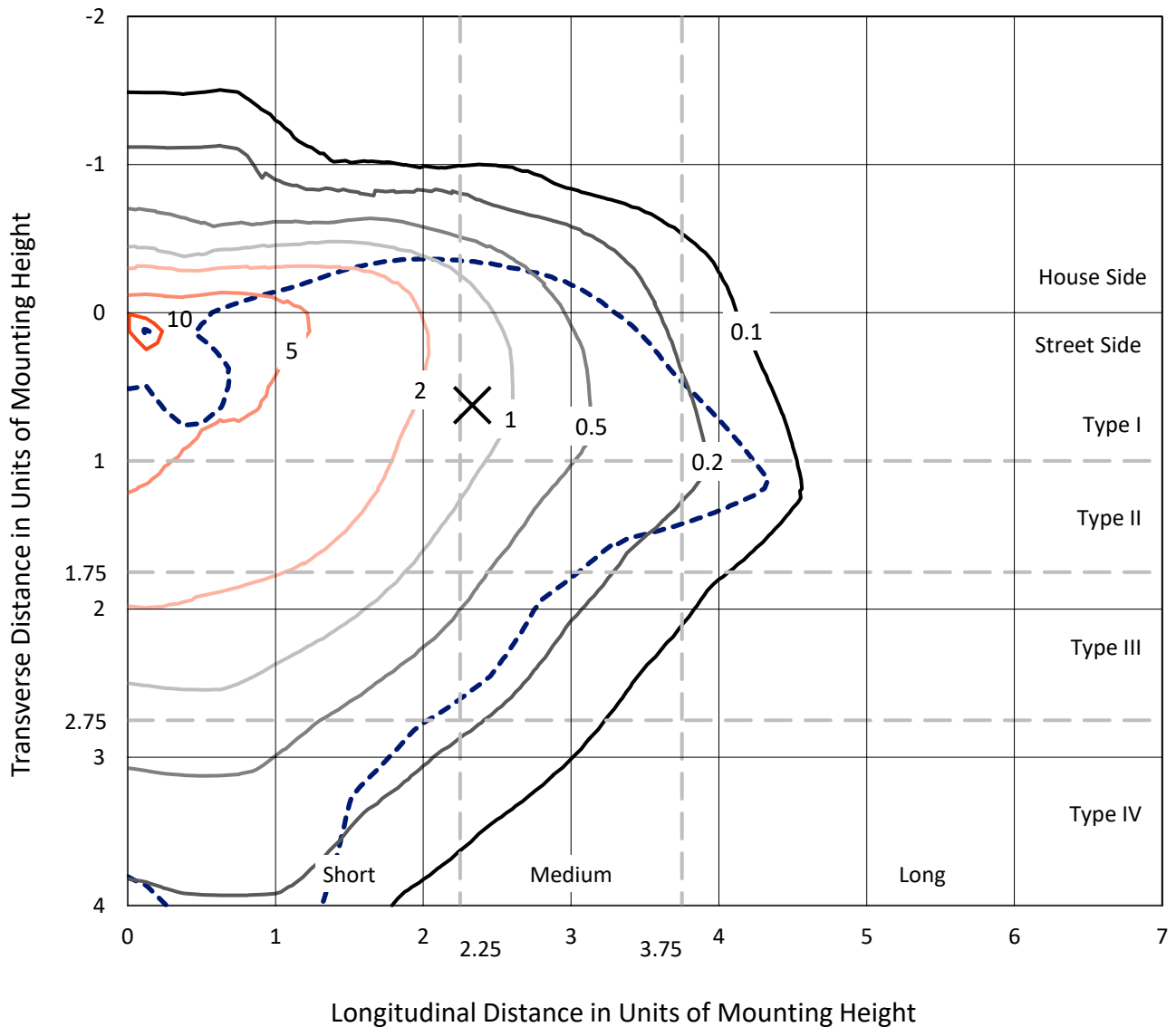
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

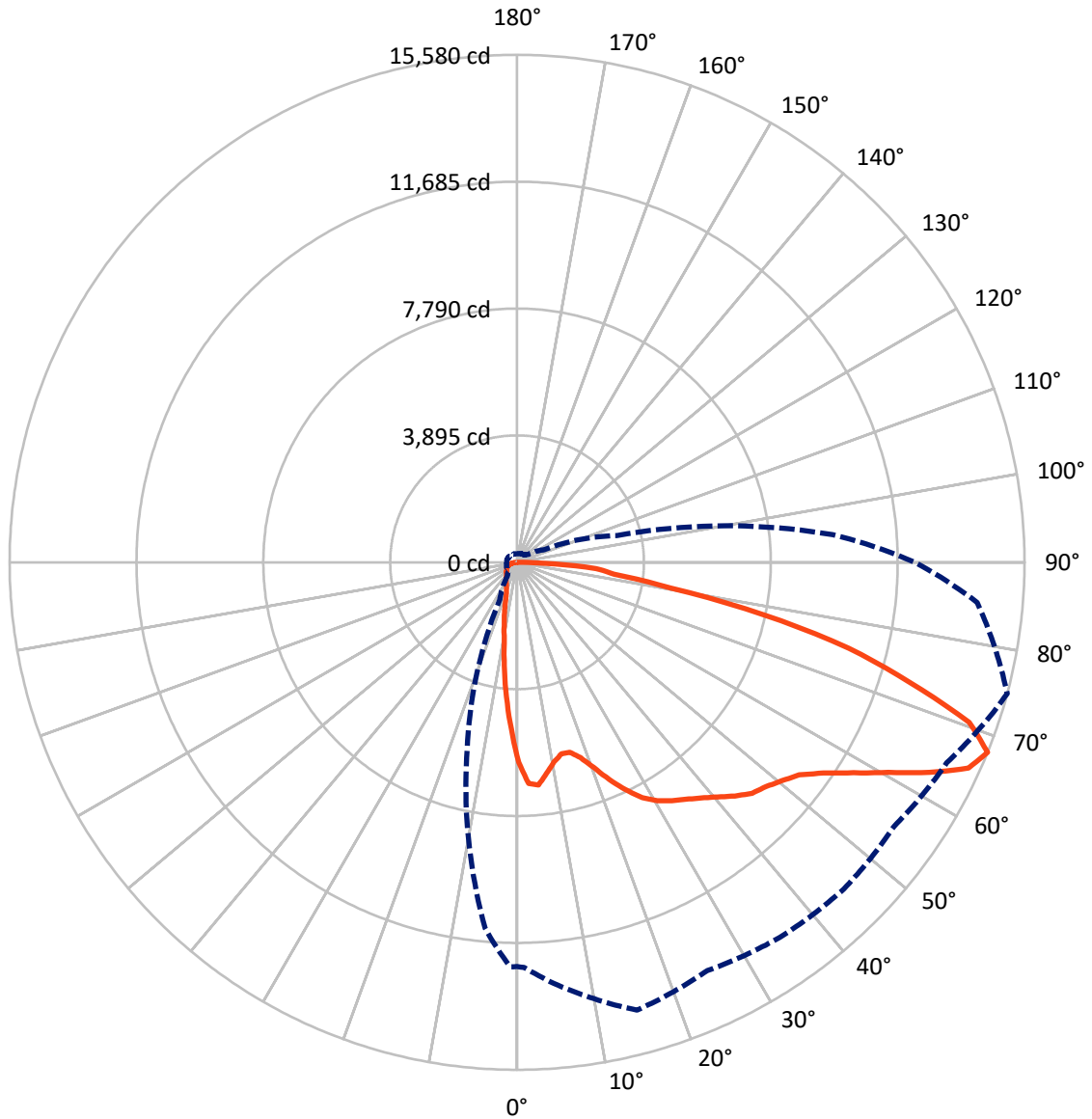
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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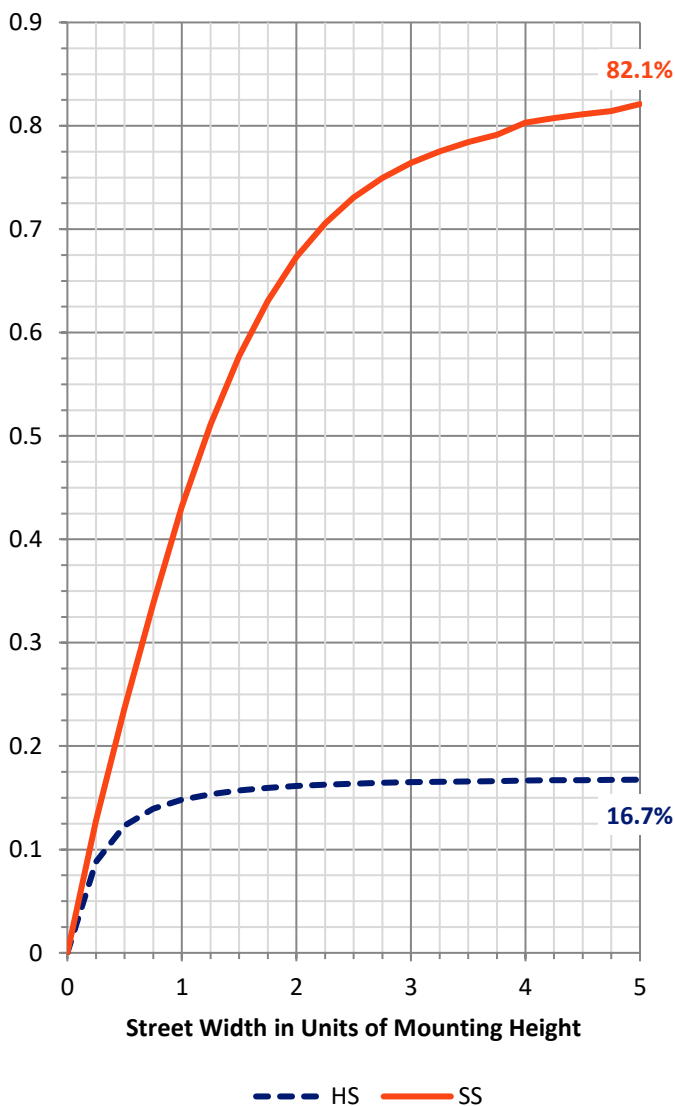
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3322.7	0.0	3322.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	16335.7	0.0	16335.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	19658.4	0.0	19658.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.8	2.4
10°-20°	971.5	4.9
20°-30°	1398.0	7.1
30°-40°	2013.5	10.2
40°-50°	2828.5	14.4
50°-60°	3944.7	20.1
60°-70°	4690.0	23.9
70°-80°	2762.2	14.1
80°-90°	584.1	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°	19658.4	100.0
0°-180°	19658.4	100.0

Coefficient of Utilization

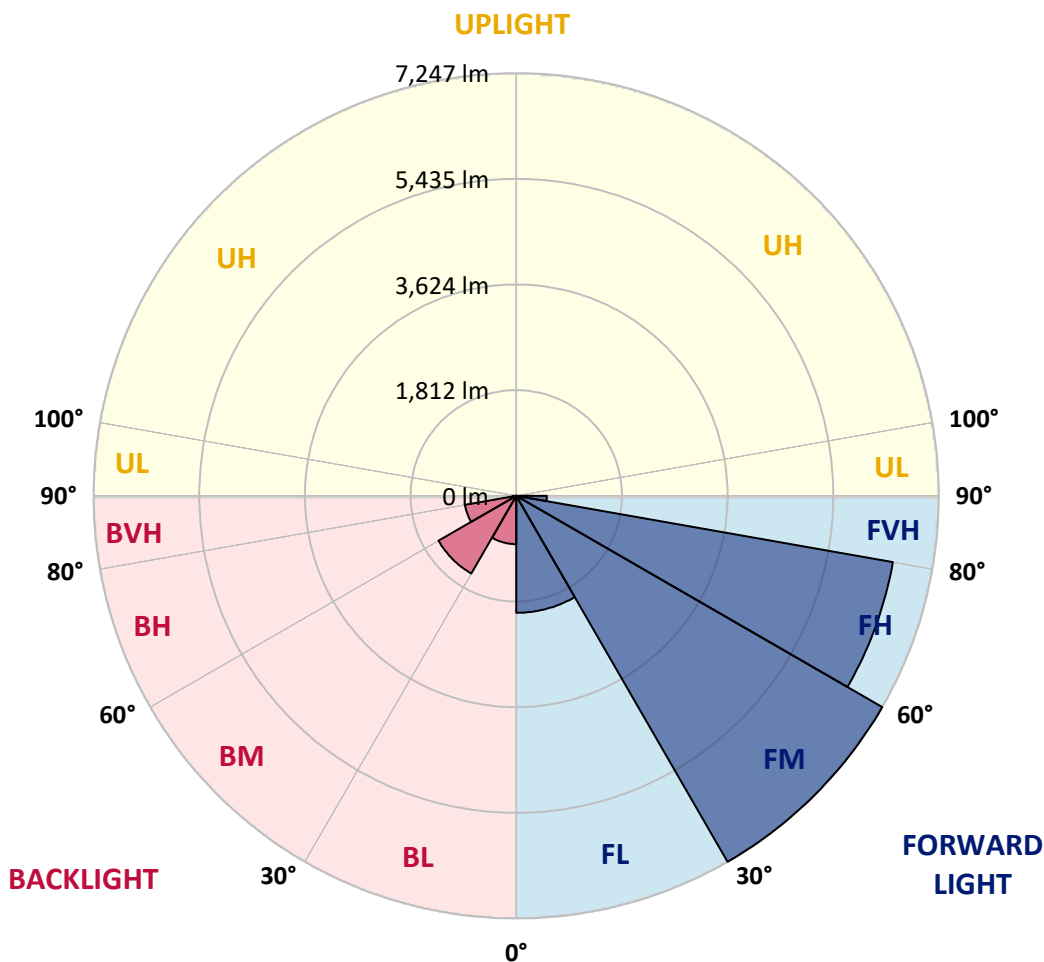


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2006.6	10.2			
FM (30°-60°)	7247.3	36.9			
FH (60°-80°)	6558.1	33.4			G3/7500
FVH (80°-90°)	523.7	2.7			G4/750
BL (0°-30°)	828.8	4.2	B2/1000		
BM (30°-60°)	1539.4	7.8	B2/2500		
BH (60°-80°)	894.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	60.4	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7
2.5°	6622.0	6630.9	6687.6	6852.7	6966.2	7007.8	7036.8	6982.6	6929.6	6801.1	6606.9
5°	6601.8	6653.6	6801.1	7171.6	7464.1	7590.2	7628.0	7465.4	7196.9	6866.6	6469.5
7.5°	6216.1	6285.5	6512.4	7133.9	7649.5	7944.4	7905.3	7611.6	7127.6	6538.9	5984.1
10°	5758.5	5835.4	6108.9	6860.3	7524.7	7930.5	7930.5	7572.5	6929.6	6230.0	5590.9
12.5°	5395.4	5476.2	5788.8	6579.1	7265.0	7649.5	7713.7	7406.2	6787.2	6034.6	5332.4
15°	5275.7	5353.9	5690.5	6409.0	6990.1	7224.6	7246.1	7145.2	6717.8	6048.5	5321.1
17.5°	5424.4	5525.3	5865.6	6459.4	6738.0	6751.9	6768.3	6847.7	6725.4	6301.9	5550.5
20°	5854.3	5962.8	6318.3	6622.0	6517.4	6373.7	6382.5	6586.7	6814.9	6720.3	6098.8
22.5°	6474.5	6569.1	6933.4	6908.2	6424.1	6127.9	6066.1	6351.0	6947.2	7242.3	6682.6
25°	7144.0	7254.9	7673.4	7333.0	6450.6	5981.6	5942.6	6212.3	7084.7	7730.1	7357.0
27.5°	7910.4	8018.8	8349.1	7761.7	6589.2	5970.3	5923.7	6199.8	7208.2	8181.4	8001.2
30°	8480.2	8579.8	8804.2	8122.2	6759.5	6045.9	5987.9	6299.3	7314.1	8490.3	8628.9
32.5°	8927.7	9031.1	9153.4	8346.6	6983.8	6183.4	6076.2	6480.8	7452.8	8726.0	9094.2
35°	9394.1	9516.4	9507.6	8545.7	7193.1	6342.1	6237.5	6743.1	7670.8	8931.5	9684.1
37.5°	9985.4	10034.6	9971.5	8724.8	7443.9	6628.3	6570.3	7132.6	7981.0	9179.9	10373.7
40°	10585.4	10683.7	10359.8	8941.6	7749.1	7166.7	7160.4	7708.7	8349.1	9471.0	11041.7
42.5°	11099.8	11182.9	10722.8	9130.7	8118.4	7823.4	7871.3	8481.5	8831.9	9808.9	11578.8
45°	11486.8	11561.1	11058.1	9313.5	8605.0	8582.3	8864.6	9309.7	9440.8	10112.7	11893.9
47.5°	11815.8	11887.6	11291.4	9590.8	9206.3	9488.7	9980.3	10173.2	9961.4	10286.7	12246.9
50°	12093.2	12114.5	11451.5	9921.1	9952.6	10599.3	11075.8	11200.6	10475.7	10536.3	12553.3
52.5°	12381.8	12354.0	11727.6	10337.1	10759.4	11653.1	11999.8	12129.7	10968.7	10843.9	12999.5
55°	13028.5	13055.0	12346.6	10861.5	11575.0	12688.2	13144.5	13019.7	11514.5	11409.8	13566.8
57.5°	13810.1	13787.4	13217.6	11682.2	12405.8	13651.3	13991.6	13791.2	12243.1	12187.7	14141.7
60°	14113.9	14144.2	13946.2	12564.6	13225.1	14494.6	14842.6	14531.1	13116.7	13091.5	14575.3
62.5°	13808.8	13979.0	14112.7	13349.9	13923.5	15114.9	15460.3	15104.8	14028.2	14211.0	14879.1
65°	13201.2	13237.8	13692.8	14015.6	14260.2	15217.0	15397.2	15208.1	14789.6	15230.8	14865.3
67.5°	12412.1	12443.6	12976.8	14233.7	13826.5	14057.1	14183.2	14127.8	14553.8	15580.0	14180.7
70°	11660.7	11635.5	12199.0	13677.7	12036.4	11685.9	11790.6	11616.6	12558.3	14726.6	12838.1
72.5°	10198.4	10289.2	10894.3	12132.2	9530.3	8960.5	9188.7	8738.6	9658.9	12612.5	10420.3
75°	7988.6	8010.0	9019.7	10182.1	7189.3	6290.5	6599.3	6411.5	7398.6	10521.2	7195.6
77.5°	5531.6	5483.7	6569.1	7776.7	5126.9	4605.1	4610.1	4520.5	5166.0	7746.5	4888.6
80°	3513.4	3440.2	4112.2	4804.2	3523.5	3769.3	3645.7	3642.0	3363.3	4779.0	2956.1
82.5°	1898.5	1979.2	2598.1	3011.6	2527.5	2913.3	2670.0	2591.8	2308.2	2991.4	1890.9
85°	864.8	940.4	1385.5	2048.5	1919.9	1941.4	1297.2	1530.4	1909.8	2429.2	1009.8
87.5°	84.4	108.4	286.2	966.9	655.6	516.9	192.8	371.9	480.3	863.5	80.7
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°	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7
2.5°	6527.5	6461.9	6238.8	6054.8	5859.3	5710.6	5516.5	5386.6	5297.1	5162.2	5145.8
5°	6227.4	6067.4	5679.1	5283.2	4941.6	4684.5	4423.5	4184.0	4042.8	3998.7	3941.9
7.5°	5722.0	5452.2	4953.0	4499.2	4107.1	3723.9	3428.9	3219.6	3079.7	2997.7	2899.4
10°	5306.0	4993.4	4385.7	3829.7	3507.1	3268.8	3009.1	2784.7	2612.0	2464.6	2383.8
12.5°	5026.1	4673.1	3989.9	3538.6	3289.0	3035.6	2731.7	2479.6	2225.0	2057.3	1985.5
15°	4941.6	4568.5	3867.6	3393.6	3035.6	2704.1	2363.6	2034.6	1782.5	1623.7	1570.7
17.5°	5148.3	4697.1	3866.3	3200.7	2738.0	2342.3	1906.0	1597.2	1338.8	1220.3	1182.4
20°	5534.1	4944.2	3877.7	3010.4	2415.4	1858.2	1386.6	1133.3	1009.8	959.3	940.4
22.5°	6072.4	5321.1	3911.7	2822.6	2062.4	1427.0	1038.7	910.1	866.1	857.2	853.4
25°	6735.5	5787.5	4026.5	2653.6	1764.8	1089.2	868.6	810.6	785.3	776.6	775.3
27.5°	7345.6	6390.1	4165.1	2508.6	1477.5	939.1	785.3	736.2	711.0	709.7	712.2
30°	7896.5	6894.3	4281.0	2346.1	1259.4	834.5	731.2	682.0	658.1	656.8	664.3
32.5°	8373.1	7309.0	4366.8	2185.9	1138.4	770.3	682.0	629.1	608.9	605.1	608.9
35°	8882.3	7722.6	4327.7	2061.1	1069.0	717.3	645.5	593.7	569.8	558.4	558.4
37.5°	9463.4	8148.6	4260.9	1957.8	1037.5	673.1	613.9	563.5	539.6	528.2	527.0
40°	10097.6	8574.8	4168.8	1865.8	1006.0	646.7	592.5	539.6	510.6	499.2	496.7
42.5°	10657.3	8939.1	4093.2	1805.2	954.3	651.8	573.6	521.9	485.3	470.2	468.9
45°	11143.9	9305.9	4079.4	1769.9	911.4	644.2	568.5	508.0	465.2	448.8	446.2
47.5°	11524.6	9687.9	4158.7	1749.7	864.8	603.8	601.3	499.2	447.5	429.8	427.3
50°	11988.5	10229.9	4340.3	1708.2	821.9	566.0	635.4	498.0	433.6	411.0	404.7
52.5°	12606.2	10935.9	4586.1	1633.7	760.2	530.8	606.4	498.0	417.3	394.6	387.0
55°	13540.4	11836.0	4826.9	1529.1	673.1	484.1	547.1	482.8	393.3	373.2	368.1
57.5°	14159.2	12494.0	4980.7	1384.2	564.7	450.0	471.5	458.8	369.4	347.9	347.9
60°	14190.8	12670.5	4907.6	1201.4	496.7	418.6	409.7	462.6	347.9	325.2	322.7
62.5°	13827.7	12238.1	4526.9	1037.5	460.1	384.5	370.6	406.0	326.5	303.8	300.1
65°	13260.5	11135.1	3866.3	959.3	439.9	354.2	334.0	332.8	303.8	282.4	277.4
67.5°	12218.0	9730.7	3176.8	913.9	429.8	320.2	301.2	295.0	277.4	259.7	257.2
70°	10681.2	8149.9	2547.7	895.1	424.8	284.9	269.8	262.2	247.1	233.2	231.9
72.5°	8310.0	6610.7	2102.8	882.5	422.3	252.1	235.7	225.6	216.8	204.2	204.2
75°	5969.0	4863.5	1604.8	795.4	390.8	216.8	199.1	192.8	180.3	170.2	172.7
77.5°	3763.0	3275.1	1056.4	584.9	302.5	174.0	158.9	155.1	145.0	131.1	139.9
80°	2541.4	2303.2	616.5	368.1	190.3	127.3	122.3	121.0	109.7	94.5	95.8
82.5°	1729.6	1696.8	320.2	209.2	109.7	74.3	71.8	74.3	61.7	50.5	50.5
85°	675.7	922.7	151.3	81.9	35.3	11.4	16.4	17.7	10.1	5.0	6.3
87.5°	12.6	94.5	3.8	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°	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7
2.5°	5120.7	5109.3	5128.2	5047.5	5063.9	5094.2	5109.3	5118.2	5242.9	5213.9	5293.3
5°	3994.9	3983.6	4056.6	4066.7	4104.6	4097.0	4133.6	4142.4	4187.8	4204.2	4315.1
7.5°	2905.7	2954.9	3038.1	3080.9	3145.3	3165.4	3146.5	3193.2	3098.6	3166.7	3186.9
10°	2334.7	2275.4	2240.1	2338.5	2351.0	2444.4	2406.5	2376.2	2431.8	2434.3	2487.2
12.5°	1943.9	1816.6	1732.1	1759.8	1790.1	1830.4	1836.7	1897.2	1937.6	1975.4	2006.9
15°	1524.1	1480.0	1403.0	1365.3	1408.1	1424.5	1463.6	1514.0	1556.9	1568.2	1611.1
17.5°	1169.8	1177.4	1164.8	1142.2	1168.6	1181.2	1183.7	1185.0	1196.3	1188.8	1251.8
20°	941.7	968.2	999.7	1004.7	1013.6	1019.9	1008.5	965.6	966.9	993.4	1013.6
22.5°	852.2	857.2	892.6	903.8	931.6	920.2	887.5	867.3	864.8	871.1	881.2
25°	781.6	789.1	814.3	832.0	853.4	833.3	809.3	790.4	787.8	794.2	804.2
27.5°	718.6	729.9	752.6	770.3	790.4	771.5	748.8	732.4	731.2	729.9	736.2
30°	668.1	680.7	697.1	717.3	731.2	714.8	693.3	684.5	683.2	680.7	683.2
32.5°	617.7	637.9	654.3	664.3	678.2	665.6	649.3	644.2	635.4	627.8	624.0
35°	560.9	582.4	607.6	620.2	634.1	621.5	610.1	588.7	573.6	572.3	574.8
37.5°	528.2	537.1	557.2	578.6	592.5	586.2	564.7	543.3	539.6	539.6	542.1
40°	499.2	503.0	511.8	539.6	564.7	545.8	519.4	513.1	513.1	511.8	513.1
42.5°	470.2	474.0	474.0	495.4	535.8	505.5	485.3	485.3	485.3	486.6	490.4
45°	443.7	445.0	443.7	458.8	496.7	471.5	457.6	461.4	463.9	466.4	468.9
47.5°	421.1	422.3	421.1	433.6	452.5	442.5	434.9	439.9	445.0	448.8	451.3
50°	400.9	399.6	402.2	409.7	418.6	421.1	416.0	423.5	426.1	431.1	437.4
52.5°	383.2	382.0	384.5	388.3	400.9	400.9	400.9	407.2	412.3	417.3	426.1
55°	363.1	364.3	368.1	373.2	389.6	387.0	388.3	393.3	398.4	406.0	411.0
57.5°	344.1	346.7	351.7	359.3	375.7	374.4	375.7	378.2	384.5	388.3	393.3
60°	322.7	327.7	334.0	339.1	355.5	354.2	360.5	365.6	369.4	369.4	371.9
62.5°	301.2	308.8	315.1	318.9	336.6	337.8	346.7	350.4	353.0	350.4	354.2
65°	279.9	291.2	293.8	298.8	316.4	317.6	327.7	336.6	334.0	331.5	337.8
67.5°	258.4	272.3	271.1	277.4	295.0	297.5	306.3	321.4	316.4	313.9	318.9
70°	234.5	244.6	245.8	249.6	273.6	269.8	283.7	297.5	293.8	295.0	295.0
72.5°	208.0	216.8	216.8	224.4	249.6	243.3	254.7	269.8	269.8	268.5	268.5
75°	176.5	181.5	186.5	197.9	224.4	216.8	224.4	238.3	240.8	238.3	238.3
77.5°	142.5	150.0	152.6	167.7	186.5	185.3	192.8	199.1	204.2	201.7	201.7
80°	100.8	108.4	118.5	134.9	146.2	150.0	153.8	158.9	161.4	161.4	163.9
82.5°	56.8	68.0	76.9	93.3	98.3	117.2	116.0	119.8	116.0	102.1	113.5
85°	12.6	24.0	34.1	42.9	49.2	68.0	71.8	80.7	66.8	61.7	61.7
87.5°	0.0	0.0	0.0	0.0	0.0	10.1	20.2	27.8	24.0	20.2	20.2
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°	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7
2.5°	5360.2	5469.9	5602.2	5830.4	5990.4	6163.2	6337.1	6522.5	6571.6	6622.0
5°	4345.4	4560.9	4678.1	4984.5	5306.0	5714.4	6048.5	6414.1	6566.6	6601.8
7.5°	3291.5	3437.7	3745.3	4055.4	4453.8	4882.3	5394.2	5964.0	6141.7	6216.1
10°	2609.5	2808.7	3078.4	3411.3	3760.4	4221.8	4799.2	5464.8	5716.9	5758.5
12.5°	2221.2	2443.1	2736.8	3088.5	3418.8	3766.8	4349.1	5036.2	5306.0	5395.4
15°	1776.2	2044.7	2383.8	2754.4	3113.7	3494.4	4084.4	4859.7	5171.1	5275.7
17.5°	1395.5	1612.4	1979.2	2381.3	2807.4	3289.0	4029.0	4944.2	5327.4	5424.4
20°	1067.7	1222.8	1531.6	1956.5	2455.7	3086.0	4042.8	5263.1	5722.0	5854.3
22.5°	922.7	1002.2	1190.0	1594.7	2153.1	2909.5	4099.5	5700.6	6253.9	6474.5
25°	835.8	877.4	983.3	1248.0	1864.5	2738.0	4229.4	6289.3	6997.7	7144.0
27.5°	761.4	791.6	857.2	1047.5	1602.3	2579.3	4380.7	6942.2	7692.3	7910.4
30°	690.8	731.2	792.9	930.3	1434.6	2434.3	4571.0	7471.7	8277.2	8480.2
32.5°	636.6	676.9	733.7	848.4	1292.1	2281.7	4684.5	7936.9	8755.0	8927.7
35°	592.5	626.5	685.8	782.9	1183.7	2165.7	4661.7	8306.2	9217.7	9394.1
37.5°	560.9	590.0	649.3	721.1	1101.8	2044.7	4650.4	8794.1	9781.2	9985.4
40°	532.0	562.2	616.5	680.7	1019.9	1902.3	4656.7	9278.2	10381.2	10585.4
42.5°	509.3	543.3	587.4	669.4	935.4	1787.5	4656.7	9699.3	10903.1	11099.8
45°	490.4	527.0	569.8	668.1	868.6	1700.6	4625.2	10061.1	11319.1	11486.8
47.5°	474.0	514.4	576.1	645.5	852.2	1637.5	4597.5	10350.9	11658.2	11815.8
50°	462.6	510.6	612.7	619.0	857.2	1618.7	4731.1	10716.5	11957.0	12093.2
52.5°	453.8	511.8	611.4	579.9	848.4	1631.2	5009.7	11287.6	12371.7	12381.8
55°	436.1	510.6	579.9	535.8	811.8	1652.6	5367.7	12117.0	13021.0	13028.5
57.5°	418.6	496.7	538.3	498.0	737.5	1652.6	5798.9	12902.5	13803.8	13810.1
60°	400.9	516.9	472.7	465.2	640.4	1622.5	6253.9	13247.9	14049.6	14113.9
62.5°	383.2	520.7	422.3	436.1	569.8	1549.3	6593.0	12865.9	13716.8	13808.8
65°	363.1	419.8	389.6	406.0	533.3	1427.0	6485.9	12166.2	13091.5	13201.2
67.5°	339.1	355.5	354.2	374.4	520.7	1246.8	5921.1	11281.3	12418.4	12412.1
70°	310.1	318.9	322.7	344.1	496.7	1106.8	4934.1	10132.9	11519.5	11660.7
72.5°	279.9	287.5	291.2	310.1	472.7	1027.4	3829.7	8550.8	9977.8	10198.4
75°	247.1	252.1	257.2	273.6	447.5	910.1	2728.0	6527.5	7641.9	7988.6
77.5°	213.0	213.0	219.3	235.7	376.9	751.3	1830.4	4578.6	5177.4	5531.6
80°	172.7	174.0	171.5	189.1	277.4	514.4	1040.0	3058.3	3445.2	3513.4
82.5°	132.4	128.6	129.9	138.7	206.7	350.4	554.6	1899.7	1936.3	1898.5
85°	83.2	83.2	80.7	90.7	132.4	182.7	302.5	1163.5	908.9	864.8
87.5°	34.1	27.8	31.5	36.6	63.0	74.3	118.5	239.5	92.0	84.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)