

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: P648437

Luminaire Tested: **GALN-SA5B-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648437
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-SA5B-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 19232.8 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

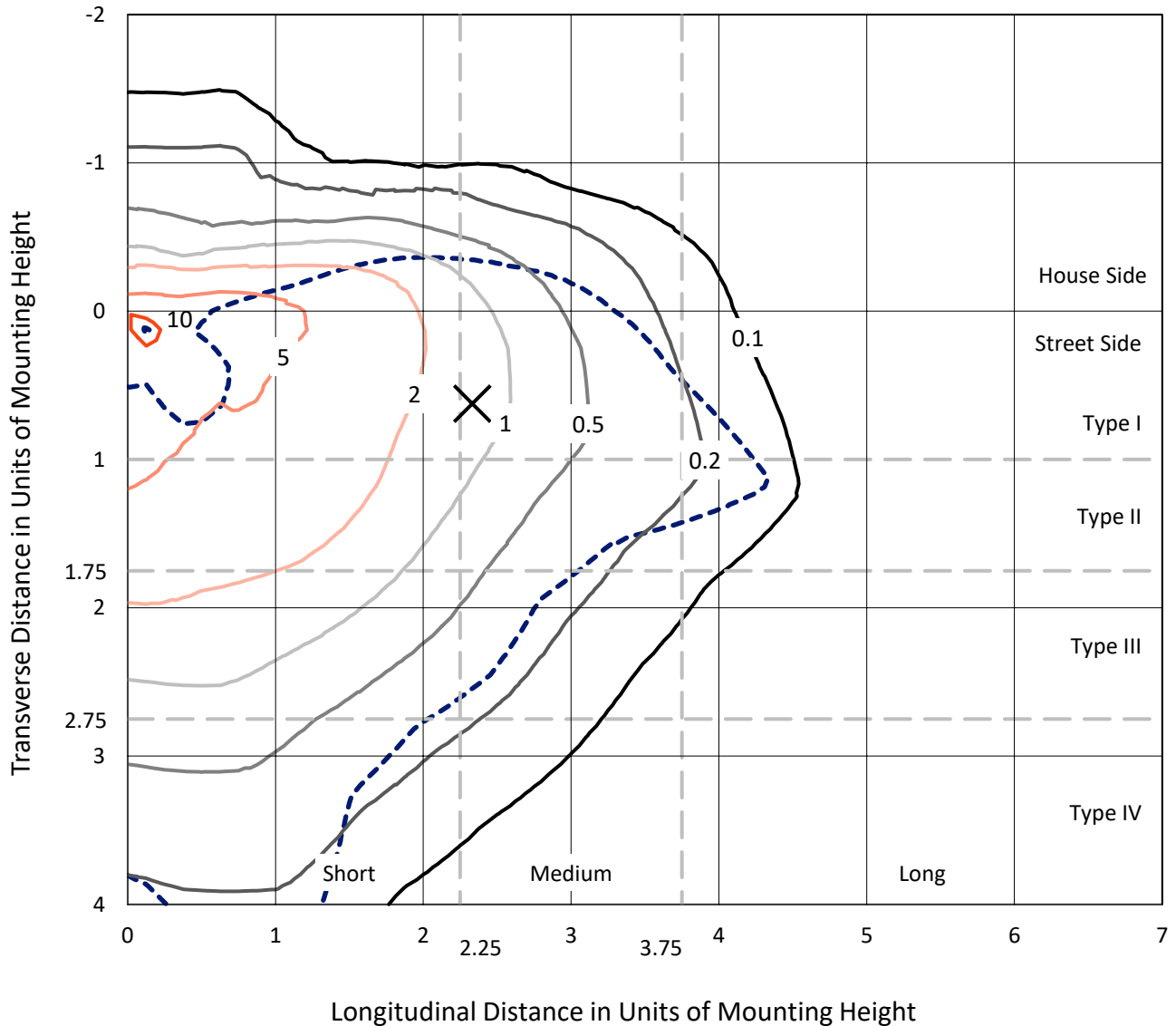
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

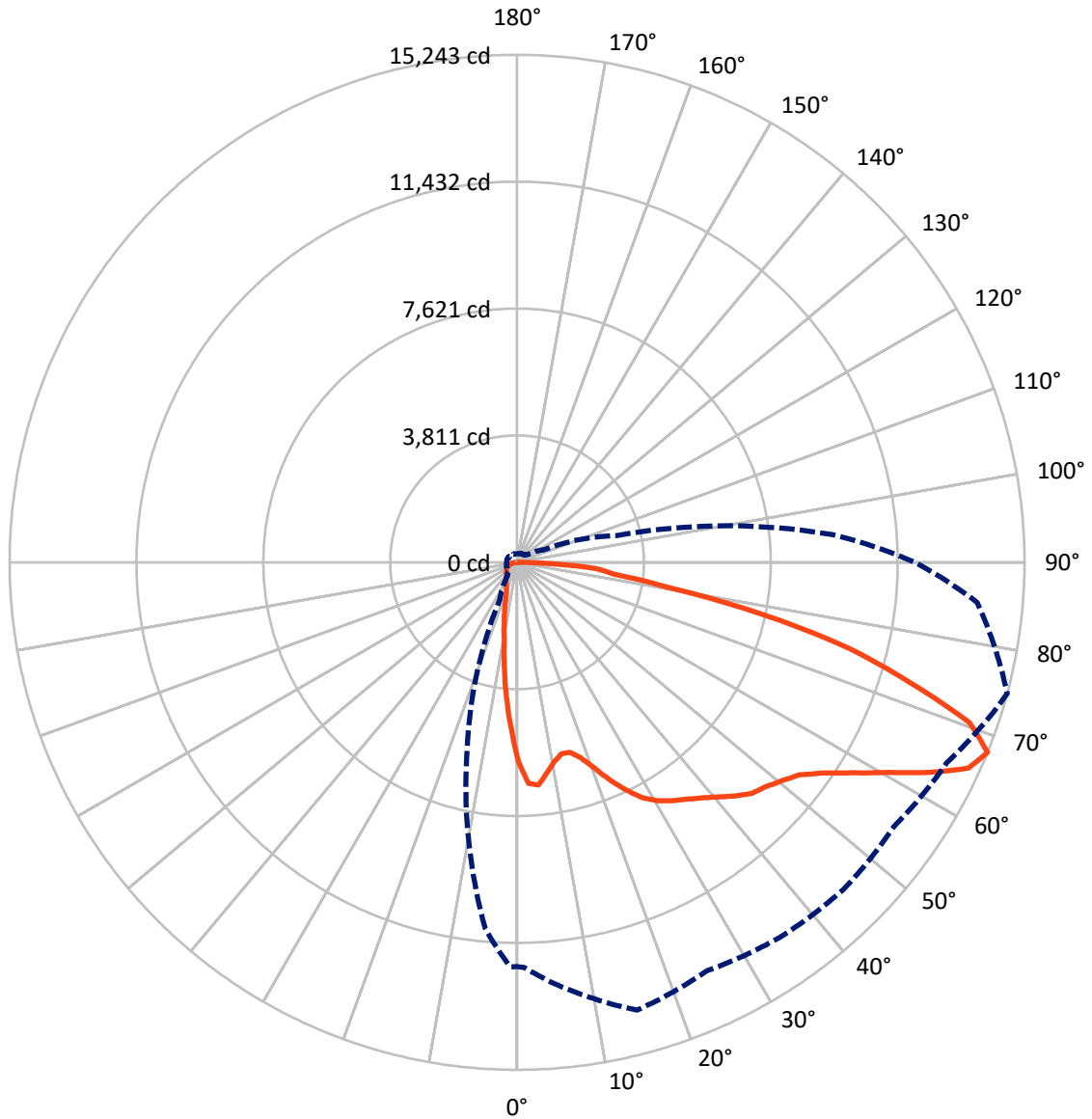
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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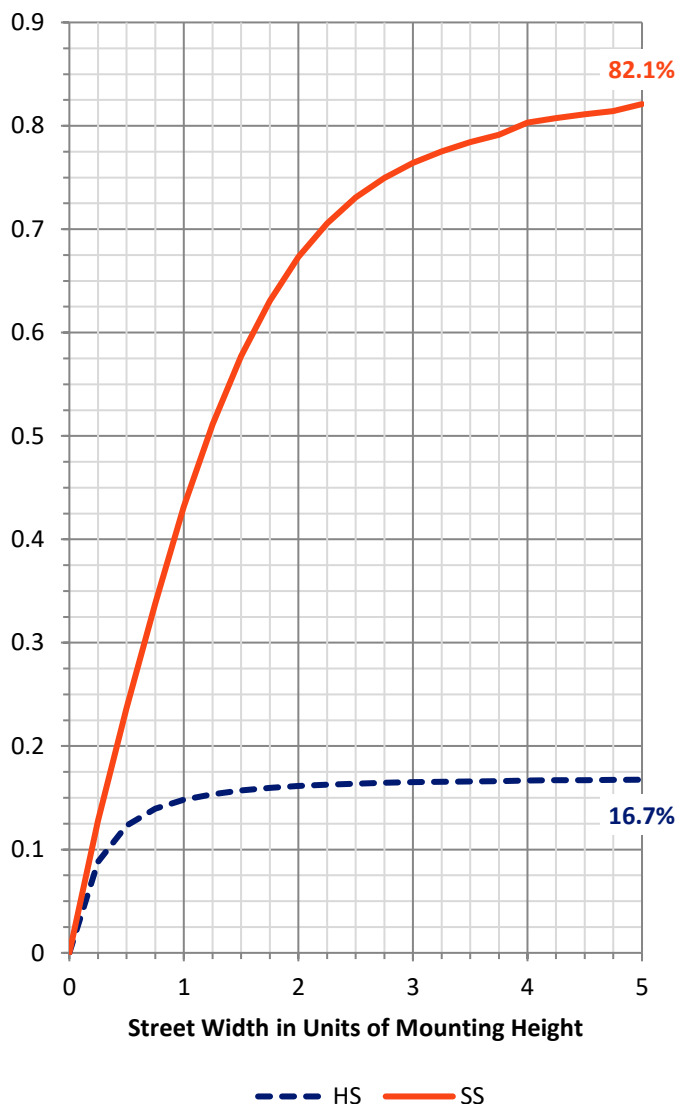
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3250.8	0.0	3250.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	15982.1	0.0	15982.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	19232.8	0.0	19232.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.8	2.4
10°-20°	950.5	4.9
20°-30°	1367.8	7.1
30°-40°	1970.0	10.2
40°-50°	2767.2	14.4
50°-60°	3859.3	20.1
60°-70°	4588.5	23.9
70°-80°	2702.4	14.1
80°-90°	571.5	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°	19232.8	100.0
0°-180°	19232.8	100.0

Coefficient of Utilization



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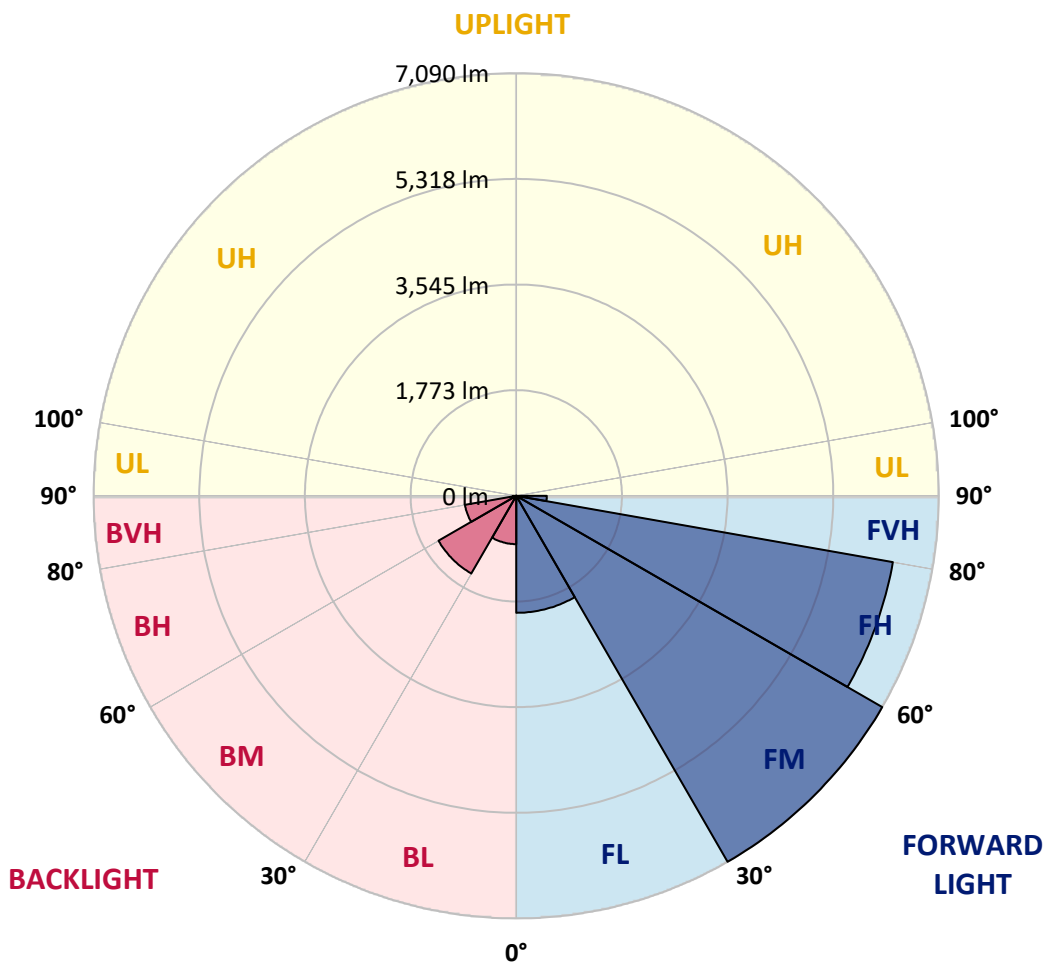
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1963.1	10.2			
FM (30°-60°)	7090.4	36.9			
FH (60°-80°)	6416.1	33.4			G3/7500
FVH (80°-90°)	512.3	2.7			G4/750
BL (0°-30°)	810.8	4.2	B2/1000		
BM (30°-60°)	1506.1	7.8	B2/2500		
BH (60°-80°)	874.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	59.1	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8
2.5°	6478.7	6487.3	6542.8	6704.4	6815.4	6856.1	6884.4	6831.4	6779.6	6653.9	6463.9
5°	6459.0	6509.5	6653.9	7016.4	7302.6	7425.9	7462.9	7303.8	7041.1	6718.0	6329.5
7.5°	6081.6	6149.4	6371.4	6979.4	7483.8	7772.4	7734.2	7446.9	6973.2	6397.3	5854.6
10°	5633.8	5709.1	5976.7	6711.8	7361.8	7758.9	7758.9	7408.6	6779.6	6095.1	5469.8
12.5°	5278.7	5357.6	5663.4	6436.7	7107.7	7483.8	7546.8	7245.8	6640.2	5904.0	5217.0
15°	5161.5	5238.0	5567.3	6270.3	6838.8	7068.2	7089.2	6990.5	6572.4	5917.5	5205.9
17.5°	5307.0	5405.7	5738.7	6319.6	6592.2	6605.7	6621.8	6699.4	6579.9	6165.4	5430.3
20°	5727.6	5833.7	6181.5	6478.7	6376.4	6235.7	6244.3	6444.2	6667.4	6574.9	5966.9
22.5°	6334.4	6426.9	6783.3	6758.6	6285.1	5995.2	5934.8	6213.5	6796.9	7085.5	6537.9
25°	6989.3	7097.8	7507.3	7174.3	6311.0	5852.1	5813.9	6077.9	6931.4	7562.8	7197.7
27.5°	7739.2	7845.2	8168.3	7593.6	6446.6	5841.0	5795.5	6065.5	7052.2	8004.3	7828.0
30°	8296.6	8394.1	8613.5	7946.4	6613.1	5915.1	5858.3	6163.0	7155.8	8306.5	8442.1
32.5°	8734.4	8835.6	8955.2	8165.9	6832.7	6049.5	5944.7	6340.6	7291.5	8537.1	8897.2
35°	9190.8	9310.4	9301.8	8360.7	7037.4	6204.9	6102.5	6597.1	7504.8	8738.1	9474.5
37.5°	9769.3	9817.3	9755.6	8535.9	7282.8	6484.9	6428.1	6978.2	7808.2	8981.1	10149.1
40°	10356.3	10452.5	10135.5	8748.0	7581.3	7011.5	7005.3	7541.9	8168.3	9266.0	10802.7
42.5°	10859.5	10940.9	10490.7	8933.0	7942.7	7654.1	7700.9	8297.8	8640.7	9596.5	11328.1
45°	11238.1	11310.9	10818.8	9111.8	8418.7	8396.5	8672.8	9108.2	9236.4	9893.8	11636.5
47.5°	11560.0	11630.3	11047.0	9383.2	9007.0	9283.2	9764.3	9952.9	9745.8	10064.0	11981.8
50°	11831.4	11852.3	11203.6	9706.3	9737.2	10369.8	10836.0	10958.2	10249.0	10308.2	12281.5
52.5°	12113.8	12086.6	11473.7	10113.3	10526.5	11400.9	11740.1	11867.1	10731.2	10609.1	12718.1
55°	12746.5	12772.4	12079.3	10626.4	11324.5	12413.4	12859.9	12737.8	11265.3	11162.9	13273.1
57.5°	13511.1	13489.0	12931.5	11429.3	12137.2	13355.7	13688.7	13492.7	11978.1	11923.8	13835.5
60°	13808.4	13838.0	13644.3	12292.6	12938.9	14180.8	14521.3	14216.6	12832.8	12808.2	14259.8
62.5°	13509.9	13676.4	13807.1	13061.0	13622.2	14787.7	15125.6	14777.8	13724.5	13903.3	14557.0
65°	12915.4	12951.2	13396.4	13712.2	13951.4	14887.6	15063.9	14878.9	14469.4	14901.1	14543.4
67.5°	12143.4	12174.2	12695.9	13925.6	13527.2	13752.8	13876.2	13821.9	14238.8	15242.7	13873.7
70°	11408.3	11383.6	11935.0	13381.6	11775.9	11433.0	11535.3	11365.2	12286.4	14407.7	12560.3
72.5°	9977.7	10066.5	10658.4	11869.6	9324.0	8766.5	8989.8	8549.4	9449.8	12339.5	10194.7
75°	7815.6	7836.6	8824.5	9961.6	7033.7	6154.3	6456.5	6272.7	7238.4	10293.4	7039.9
77.5°	5411.9	5365.0	6426.9	7608.4	5016.0	4505.4	4510.3	4422.7	5054.2	7578.8	4782.9
80°	3437.3	3365.7	4023.1	4700.2	3447.2	3687.7	3566.8	3563.1	3290.6	4675.5	2892.2
82.5°	1857.4	1936.4	2541.9	2946.4	2472.8	2850.2	2612.2	2535.7	2258.3	2926.7	1850.0
85°	846.0	920.1	1355.5	2004.2	1878.3	1899.3	1269.1	1497.3	1868.5	2376.6	987.9
87.5°	82.6	106.1	280.0	945.9	641.4	505.7	188.7	363.9	469.9	844.9	78.9
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°	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8
2.5°	6386.2	6322.0	6103.7	5923.7	5732.5	5587.0	5397.1	5270.1	5182.4	5050.5	5034.5
5°	6092.7	5936.0	5556.2	5168.9	4834.6	4583.1	4327.8	4093.4	3955.3	3912.1	3856.7
7.5°	5598.1	5334.2	4845.8	4401.8	4018.2	3643.3	3354.7	3149.9	3013.1	2932.9	2836.7
10°	5191.1	4885.2	4290.8	3746.9	3431.1	3198.0	2943.9	2724.4	2555.5	2411.2	2332.2
12.5°	4917.3	4571.9	3903.5	3462.0	3217.7	2969.8	2672.6	2426.0	2176.8	2012.8	1942.5
15°	4834.6	4469.6	3783.8	3320.2	2969.8	2645.5	2312.5	1990.6	1743.9	1588.6	1536.7
17.5°	5037.0	4595.4	3782.6	3131.5	2678.8	2291.5	1864.8	1562.6	1309.8	1193.8	1156.9
20°	5414.3	4837.1	3793.7	2945.2	2363.1	1818.0	1356.6	1108.7	987.9	938.6	920.1
22.5°	5940.9	5205.9	3827.0	2761.4	2017.7	1396.2	1016.3	890.4	847.3	838.7	835.0
25°	6589.7	5662.2	3939.3	2596.2	1726.7	1065.6	849.8	793.0	768.4	759.7	758.5
27.5°	7186.6	6251.8	4074.9	2454.3	1445.5	918.9	768.4	720.3	695.6	694.4	696.9
30°	7725.6	6745.1	4188.4	2295.2	1232.1	816.4	715.3	667.2	643.8	642.5	650.0
32.5°	8191.8	7150.8	4272.3	2138.6	1113.7	753.6	667.2	615.4	595.7	592.0	595.7
35°	8690.0	7555.4	4234.0	2016.5	1045.9	701.8	631.5	580.9	557.5	546.4	546.4
37.5°	9258.6	7972.3	4168.7	1915.4	1015.0	658.6	600.6	551.3	527.9	516.8	515.5
40°	9879.0	8389.1	4078.6	1825.3	984.2	632.7	579.7	527.9	499.5	488.4	485.9
42.5°	10426.6	8745.6	4004.7	1766.1	933.6	637.6	561.2	510.6	474.8	460.0	458.8
45°	10902.6	9104.5	3991.0	1731.6	891.7	630.2	556.2	497.0	455.1	439.0	436.6
47.5°	11275.1	9478.1	4068.8	1711.9	846.0	590.8	588.3	488.4	437.9	420.5	418.1
50°	11728.9	10008.5	4246.4	1671.2	804.1	553.7	621.6	487.2	424.2	402.1	395.9
52.5°	12333.3	10699.1	4486.8	1598.4	743.7	519.2	593.2	487.2	408.3	386.0	378.7
55°	13247.2	11579.8	4722.4	1496.0	658.6	473.6	535.3	472.4	384.8	365.0	360.1
57.5°	13852.8	12223.6	4872.9	1354.2	552.6	440.3	461.3	448.9	361.4	340.4	340.4
60°	13883.6	12396.2	4801.4	1175.4	485.9	409.4	400.8	452.7	340.4	318.2	315.7
62.5°	13528.4	11973.2	4428.9	1015.0	450.1	376.2	362.6	397.1	319.5	297.2	293.5
65°	12973.4	10894.0	3782.6	938.6	430.4	346.6	326.8	325.6	297.2	276.2	271.3
67.5°	11953.4	9520.1	3108.0	894.2	420.5	313.3	294.8	288.6	271.3	254.1	251.6
70°	10450.0	7973.5	2492.5	875.6	415.6	278.7	263.9	256.5	241.7	228.2	226.9
72.5°	8130.1	6467.6	2057.2	863.3	413.2	246.6	230.7	220.7	212.1	199.8	199.8
75°	5839.8	4758.2	1570.0	778.2	382.3	212.1	194.9	188.7	176.3	166.5	169.0
77.5°	3681.5	3204.2	1033.6	572.3	296.0	170.2	155.4	151.7	141.8	128.3	136.9
80°	2486.4	2253.3	603.1	360.1	186.2	124.6	119.6	118.4	107.3	92.5	93.7
82.5°	1692.1	1660.0	313.3	204.8	107.3	72.7	70.3	72.7	60.4	49.3	49.3
85°	661.1	902.8	148.0	80.2	34.5	11.1	16.1	17.3	9.9	4.9	6.2
87.5°	12.4	92.5	3.7	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°	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8
2.5°	5009.8	4998.7	5017.2	4938.2	4954.3	4983.9	4998.7	5007.4	5129.4	5101.1	5178.8
5°	3908.4	3897.3	3968.9	3978.7	4015.7	4008.3	4044.1	4052.7	4097.1	4113.2	4221.7
7.5°	2842.8	2890.9	2972.3	3014.2	3077.2	3096.9	3078.4	3124.0	3031.5	3098.1	3117.8
10°	2284.2	2226.1	2191.6	2287.8	2300.1	2391.4	2354.4	2324.8	2379.1	2381.6	2433.3
12.5°	1901.8	1777.3	1694.6	1721.7	1751.3	1790.8	1797.0	1856.2	1895.6	1932.6	1963.5
15°	1491.1	1447.9	1372.7	1335.7	1377.6	1393.7	1431.9	1481.2	1523.2	1534.3	1576.2
17.5°	1144.5	1151.9	1139.6	1117.4	1143.3	1155.6	1158.1	1159.3	1170.4	1163.1	1224.7
20°	921.3	947.2	978.0	983.0	991.6	997.8	986.7	944.8	945.9	971.9	991.6
22.5°	833.7	838.7	873.2	884.3	911.4	900.3	868.3	848.5	846.0	852.2	862.1
25°	764.7	772.0	796.7	814.0	835.0	815.3	791.8	773.3	770.9	777.0	786.8
27.5°	703.0	714.1	736.3	753.6	773.3	754.8	732.6	716.6	715.3	714.1	720.3
30°	653.6	666.0	682.1	701.8	715.3	699.3	678.3	669.7	668.4	666.0	668.4
32.5°	604.3	624.1	640.1	650.0	663.5	651.2	635.2	630.2	621.6	614.2	610.5
35°	548.8	569.8	594.5	606.8	620.4	608.0	597.0	576.0	561.2	559.9	562.4
37.5°	516.8	525.4	545.1	566.1	579.7	573.5	552.6	531.6	527.9	527.9	530.3
40°	488.4	492.1	500.7	527.9	552.6	534.0	508.2	502.0	502.0	500.7	502.0
42.5°	460.0	463.8	463.8	484.7	524.1	494.5	474.8	474.8	474.8	476.1	479.7
45°	434.1	435.3	434.1	448.9	485.9	461.3	447.7	451.4	453.9	456.3	458.8
47.5°	411.9	413.2	411.9	424.2	442.8	432.9	425.5	430.4	435.3	439.0	441.5
50°	392.2	391.0	393.5	400.8	409.4	411.9	407.0	414.4	416.9	421.8	428.0
52.5°	374.9	373.7	376.2	379.8	392.2	392.2	392.2	398.4	403.3	408.3	416.9
55°	355.2	356.4	360.1	365.0	381.1	378.7	379.8	384.8	389.7	397.1	402.1
57.5°	336.7	339.2	344.1	351.5	367.5	366.3	367.5	370.0	376.2	379.8	384.8
60°	315.7	320.6	326.8	331.8	347.8	346.6	352.7	357.7	361.4	361.4	363.9
62.5°	294.8	302.2	308.3	312.0	329.3	330.5	339.2	342.9	345.3	342.9	346.6
65°	273.8	284.9	287.4	292.3	309.6	310.8	320.6	329.3	326.8	324.4	330.5
67.5°	252.8	266.4	265.2	271.3	288.6	291.0	299.7	314.5	309.6	307.1	312.0
70°	229.4	239.3	240.5	244.2	267.6	263.9	277.5	291.0	287.4	288.6	288.6
72.5°	203.5	212.1	212.1	219.6	244.2	238.0	249.2	263.9	263.9	262.7	262.7
75°	172.7	177.6	182.5	193.6	219.6	212.1	219.6	233.1	235.6	233.1	233.1
77.5°	139.4	146.7	149.2	164.0	182.5	181.3	188.7	194.9	199.8	197.3	197.3
80°	98.7	106.1	116.0	131.9	143.1	146.7	150.5	155.4	157.9	157.9	160.4
82.5°	55.5	66.6	75.2	91.3	96.2	114.7	113.5	117.1	113.5	99.9	111.0
85°	12.4	23.4	33.3	42.0	48.1	66.6	70.3	78.9	65.4	60.4	60.4
87.5°	0.0	0.0	0.0	0.0	0.0	9.9	19.7	27.2	23.4	19.7	19.7
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°	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8	6008.8
2.5°	5244.1	5351.4	5480.9	5704.2	5860.8	6029.7	6200.0	6381.3	6429.4	6478.7
5°	4251.3	4462.2	4576.9	4876.6	5191.1	5590.7	5917.5	6275.2	6424.4	6459.0
7.5°	3220.2	3363.3	3664.2	3967.6	4357.4	4776.7	5277.4	5834.9	6008.8	6081.6
10°	2553.0	2747.9	3011.8	3337.4	3679.0	4130.4	4695.3	5346.5	5593.1	5633.8
12.5°	2173.1	2390.2	2677.5	3021.7	3344.8	3685.2	4255.0	4927.2	5191.1	5278.7
15°	1737.8	2000.5	2332.2	2694.9	3046.3	3418.8	3996.0	4754.5	5059.1	5161.5
17.5°	1365.3	1577.4	1936.4	2329.7	2746.6	3217.7	3941.7	4837.1	5212.0	5307.0
20°	1044.6	1196.3	1498.5	1914.1	2402.6	3019.2	3955.3	5149.2	5598.1	5727.6
22.5°	902.8	980.5	1164.2	1560.1	2106.5	2846.5	4010.8	5577.2	6118.5	6334.4
25°	817.7	858.4	962.0	1221.0	1824.1	2678.8	4137.8	6153.1	6846.2	6989.3
27.5°	744.9	774.5	838.7	1024.9	1567.6	2523.4	4285.8	6792.0	7525.8	7739.2
30°	675.9	715.3	775.8	910.2	1403.5	2381.6	4472.0	7309.9	8098.0	8296.6
32.5°	622.8	662.3	717.8	830.1	1264.2	2232.3	4583.1	7765.1	8565.5	8734.4
35°	579.7	612.9	671.0	765.9	1158.1	2118.9	4560.9	8126.4	9018.1	9190.8
37.5°	548.8	577.2	635.2	705.5	1078.0	2000.5	4549.8	8603.7	9569.4	9769.3
40°	520.5	550.1	603.1	666.0	997.8	1861.1	4556.0	9077.3	10156.4	10356.3
42.5°	498.3	531.6	574.7	654.9	915.2	1748.8	4556.0	9489.3	10667.1	10859.5
45°	479.7	515.5	557.5	653.6	849.8	1663.8	4525.1	9843.2	11074.0	11238.1
47.5°	463.8	503.2	563.6	631.5	833.7	1602.1	4497.9	10126.9	11405.9	11560.0
50°	452.7	499.5	599.4	605.6	838.7	1583.6	4628.7	10484.5	11698.2	11831.4
52.5°	444.0	500.7	598.1	567.4	830.1	1595.9	4901.3	11043.3	12103.9	12113.8
55°	426.7	499.5	567.4	524.1	794.3	1616.9	5251.5	11854.8	12739.1	12746.5
57.5°	409.4	485.9	526.6	487.2	721.5	1616.9	5673.3	12623.1	13504.9	13511.1
60°	392.2	505.7	462.5	455.1	626.6	1587.3	6118.5	12961.1	13745.5	13808.4
62.5°	374.9	509.3	413.2	426.7	557.5	1515.7	6450.4	12587.4	13419.9	13509.9
65°	355.2	410.7	381.1	397.1	521.7	1396.2	6345.5	11902.9	12808.2	12915.4
67.5°	331.8	347.8	346.6	366.3	509.3	1219.8	5792.9	11037.1	12149.6	12143.4
70°	303.4	312.0	315.7	336.7	485.9	1082.9	4827.3	9913.5	11270.2	11408.3
72.5°	273.8	281.2	284.9	303.4	462.5	1005.1	3746.9	8365.7	9761.8	9977.7
75°	241.7	246.6	251.6	267.6	437.9	890.4	2668.9	6386.2	7476.5	7815.6
77.5°	208.4	208.4	214.6	230.7	368.8	735.1	1790.8	4479.5	5065.3	5411.9
80°	169.0	170.2	167.7	185.0	271.3	503.2	1017.5	2992.1	3370.7	3437.3
82.5°	129.5	125.8	127.0	135.7	202.2	342.9	542.7	1858.6	1894.4	1857.4
85°	81.4	81.4	78.9	88.8	129.5	178.8	296.0	1138.4	889.3	846.0
87.5°	33.3	27.2	30.9	35.8	61.7	72.7	116.0	234.4	90.0	82.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)