

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: P646952

Luminaire Tested: **GALN-SA5C-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646952
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-SA5C-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA 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: 23762.5 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

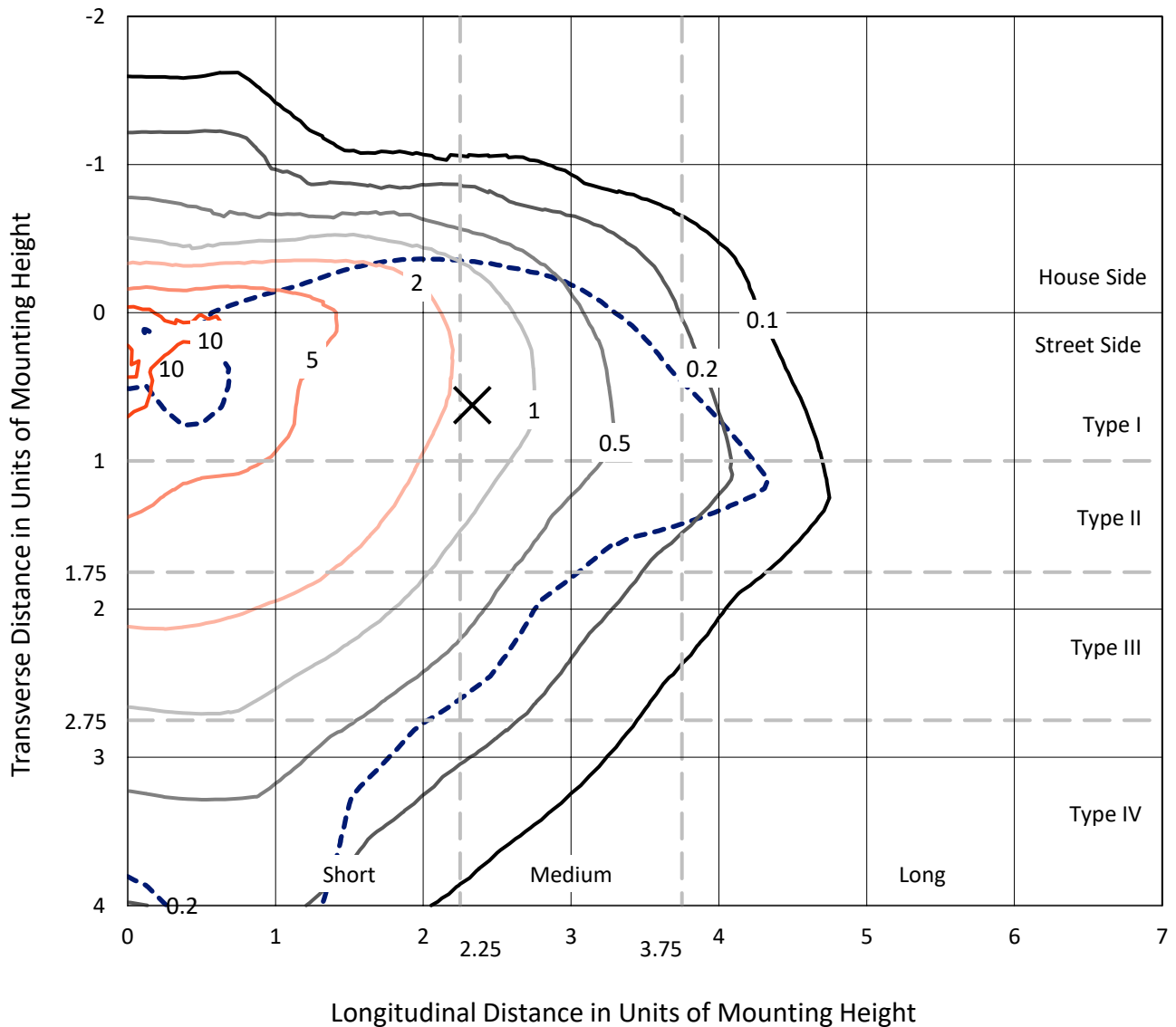
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

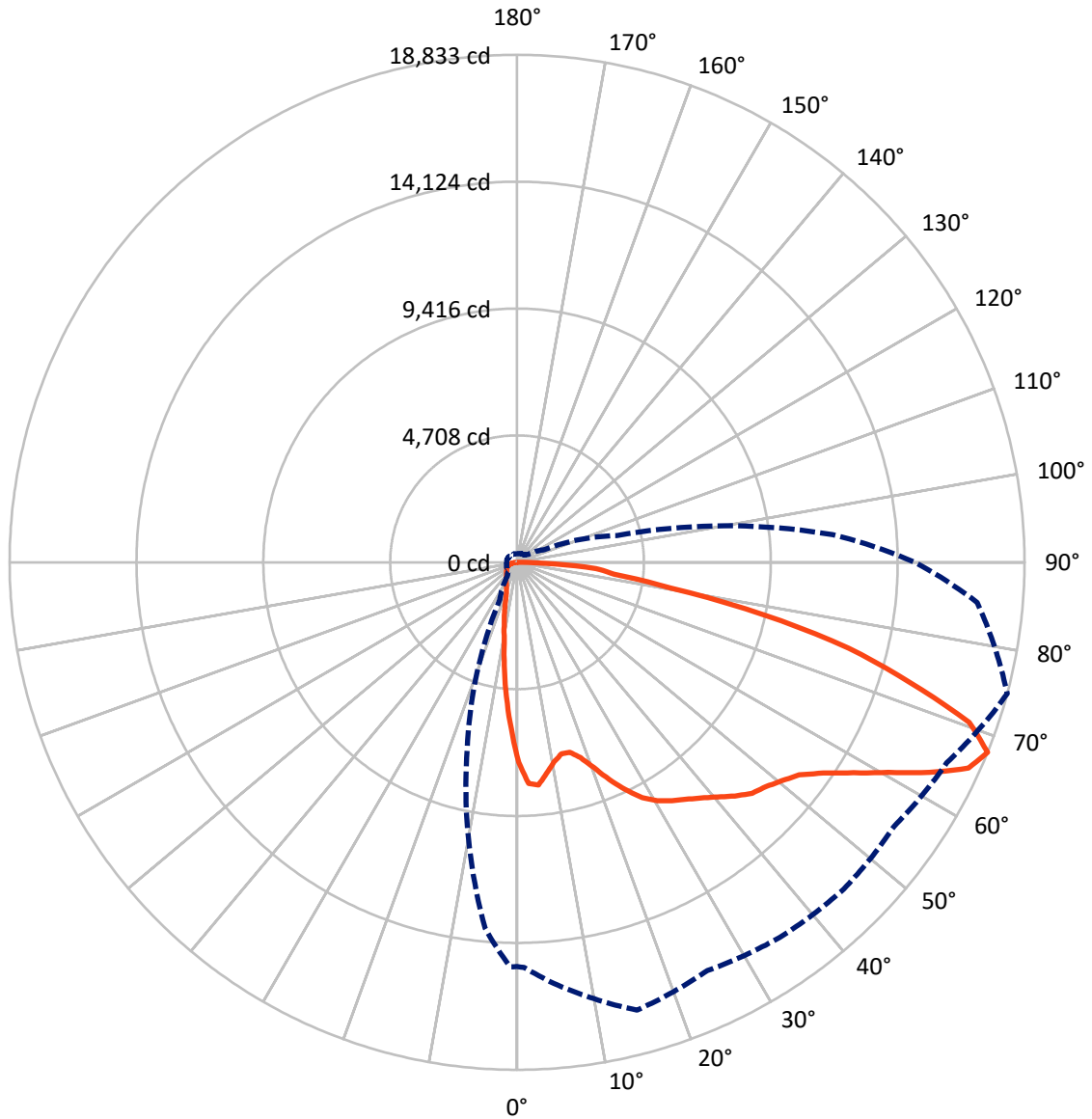
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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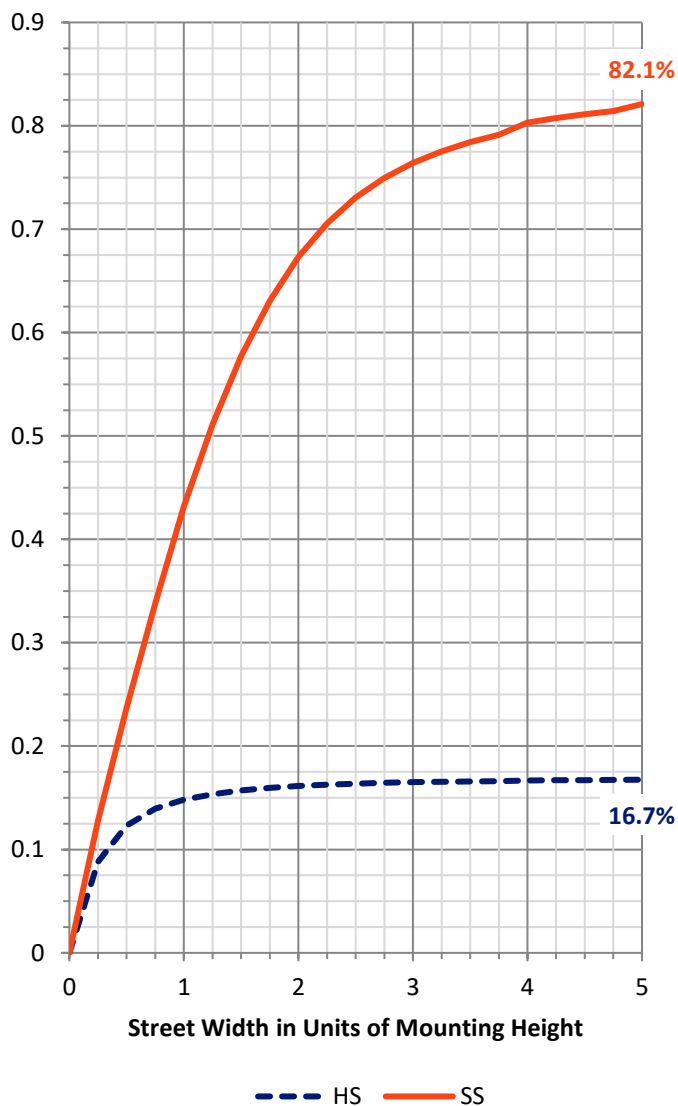
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4016.4	0.0	4016.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	19746.1	0.0	19746.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	23762.5	0.0	23762.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.1	2.4
10°-20°	1174.3	4.9
20°-30°	1689.9	7.1
30°-40°	2433.9	10.2
40°-50°	3419.0	14.4
50°-60°	4768.3	20.1
60°-70°	5669.2	23.9
70°-80°	3338.8	14.1
80°-90°	706.0	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°	23762.5	100.0
0°-180°	23762.5	100.0

Coefficient of Utilization

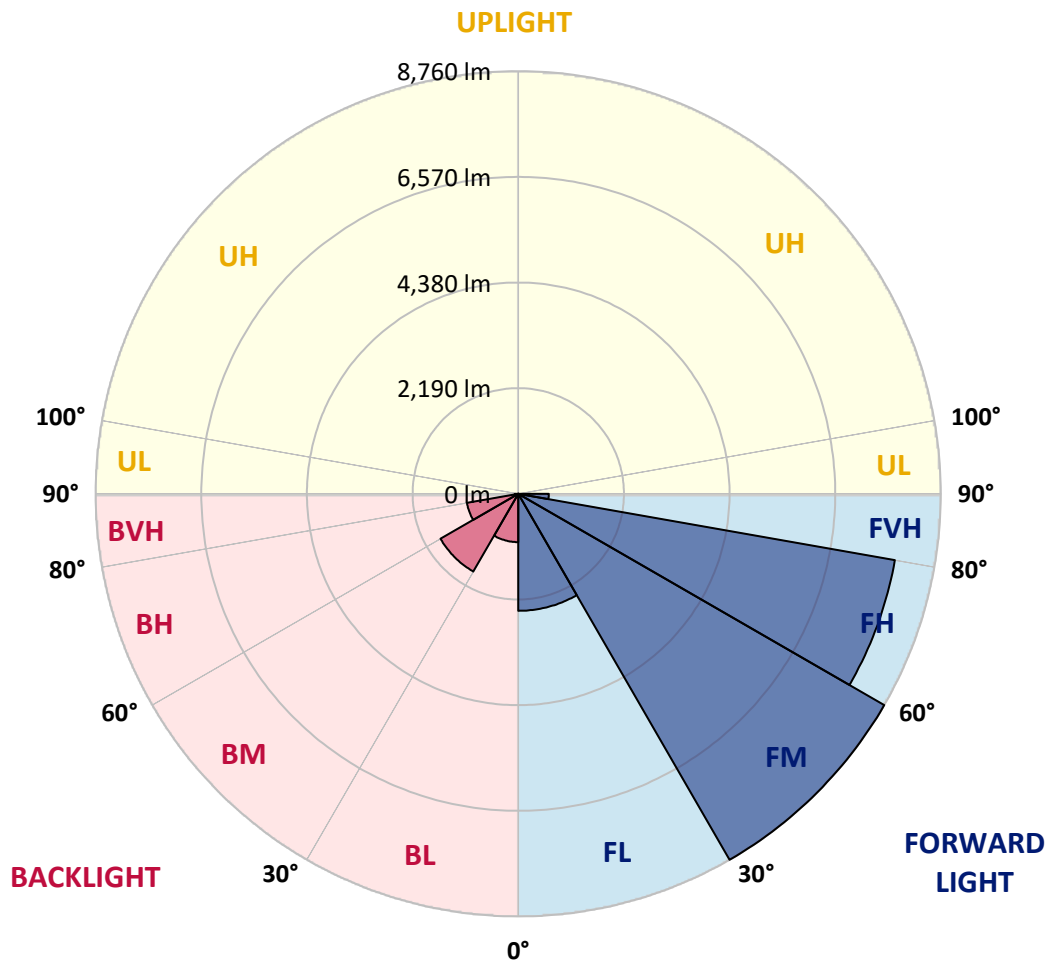


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.5	10.2			
FM (30°-60°)	8760.3	36.9			
FH (60°-80°)	7927.3	33.4			G4/12000
FVH (80°-90°)	633.0	2.7			G4/750
BL (0°-30°)	1001.8	4.2	B3/2500		
BM (30°-60°)	1860.8	7.8	B2/2500		
BH (60°-80°)	1080.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	73.0	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°	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9
2.5°	8004.5	8015.2	8083.8	8283.4	8420.5	8470.8	8505.9	8440.3	8376.4	8220.9	7986.2
5°	7980.2	8042.7	8220.9	8668.9	9022.4	9174.8	9220.5	9023.9	8699.4	8300.1	7820.1
7.5°	7513.9	7597.7	7872.0	8623.2	9246.4	9603.0	9555.7	9200.7	8615.6	7904.0	7233.5
10°	6960.7	7053.7	7384.3	8292.5	9095.6	9586.3	9586.3	9153.5	8376.4	7530.7	6758.1
12.5°	6521.8	6619.4	6997.3	7952.7	8781.7	9246.4	9324.1	8952.4	8204.1	7294.4	6445.7
15°	6377.1	6471.6	6878.4	7747.0	8449.5	8732.9	8758.8	8636.9	8120.3	7311.2	6432.0
17.5°	6556.9	6678.8	7090.2	7808.0	8144.7	8161.4	8181.3	8277.3	8129.5	7617.5	6709.3
20°	7076.5	7207.6	7637.3	8004.5	7878.1	7704.3	7715.0	7961.9	8237.7	8123.4	7372.2
22.5°	7826.2	7940.6	8380.9	8350.5	7765.3	7407.2	7332.6	7676.9	8397.7	8754.3	8077.7
25°	8635.4	8769.4	9275.4	8864.0	7797.3	7230.5	7183.2	7509.3	8563.7	9343.9	8892.9
27.5°	9561.8	9692.9	10092.2	9382.1	7964.9	7216.8	7160.4	7494.1	8713.1	9889.4	9671.5
30°	10250.6	10371.0	10642.2	9817.9	8170.6	7308.1	7238.1	7614.4	8841.1	10262.8	10430.4
32.5°	10791.5	10916.5	11064.3	10089.1	8441.8	7474.3	7344.7	7833.8	9008.7	10547.8	10992.7
35°	11355.4	11503.2	11492.5	10329.9	8694.8	7666.3	7539.7	8150.8	9272.4	10796.2	11705.8
37.5°	12070.0	12129.5	12053.3	10546.2	8998.1	8012.1	7942.0	8621.7	9647.2	11096.4	12539.4
40°	12795.4	12914.3	12522.6	10808.3	9366.8	8662.8	8655.2	9318.0	10092.2	11448.3	13347.0
42.5°	13417.1	13517.6	12961.5	11036.9	9813.3	9456.7	9514.6	10252.1	10675.7	11856.7	13996.1
45°	13884.9	13974.7	13366.8	11257.8	10401.5	10374.0	10715.4	11253.3	11411.8	12224.0	14377.1
47.5°	14282.6	14369.5	13648.7	11593.1	11128.3	11469.6	12063.9	12297.1	12041.1	12434.2	14803.7
50°	14617.8	14643.7	13842.2	11992.3	12030.4	12812.2	13388.1	13539.0	12662.8	12736.0	15174.0
52.5°	14966.8	14933.2	14175.9	12495.2	13005.6	14086.0	14505.1	14662.0	13258.6	13107.7	15713.5
55°	15748.5	15780.5	14924.1	13129.1	13991.6	15337.1	15888.7	15737.8	13918.4	13791.9	16399.2
57.5°	16693.2	16665.8	15977.0	14121.1	14995.7	16501.3	16912.6	16670.4	14799.2	14732.1	17094.0
60°	17060.5	17097.0	16857.8	15187.7	15986.2	17520.6	17941.3	17564.9	15855.1	15824.7	17618.2
62.5°	16691.8	16897.5	17059.0	16137.1	16830.4	18270.4	18687.9	18258.2	16956.9	17177.8	17985.4
65°	15957.2	16001.5	16551.5	16941.6	17237.3	18393.8	18611.8	18383.1	17877.2	18410.6	17968.7
67.5°	15003.4	15041.4	15686.0	17205.3	16713.1	16991.9	17144.3	17077.2	17592.3	18832.6	17141.3
70°	14095.2	14064.7	14745.8	16533.3	14549.2	14125.6	14252.1	14041.9	15180.1	17801.0	15518.4
72.5°	12327.6	12437.3	13168.7	14665.0	11520.0	10831.2	11107.0	10563.0	11675.4	15245.6	12595.7
75°	9656.3	9682.3	10902.8	12307.7	8690.2	7603.8	7977.1	7750.1	8943.2	12717.6	8697.9
77.5°	6686.4	6628.6	7940.6	9400.3	6197.3	5566.4	5572.5	5464.3	6244.5	9363.7	5909.3
80°	4246.8	4158.4	4970.6	5807.2	4259.1	4556.2	4406.8	4402.3	4065.5	5776.7	3573.3
82.5°	2294.8	2392.4	3140.5	3640.3	3055.2	3521.5	3227.4	3132.9	2790.1	3616.0	2285.7
85°	1045.3	1136.8	1674.7	2476.2	2320.7	2346.7	1568.0	1849.9	2308.6	2936.3	1220.5
87.5°	102.1	131.1	345.9	1168.8	792.4	624.8	233.2	449.5	580.6	1043.8	97.6
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°	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9
2.5°	7890.2	7811.0	7541.3	7318.9	7082.6	6902.8	6668.2	6511.2	6403.0	6240.0	6220.2
5°	7527.6	7334.0	6864.7	6386.2	5973.3	5662.4	5347.0	5057.5	4886.9	4833.5	4764.9
7.5°	6916.6	6590.4	5987.1	5438.5	4964.5	4501.3	4144.7	3891.8	3722.6	3623.6	3504.7
10°	6413.7	6035.8	5301.3	4629.3	4239.2	3951.3	3637.3	3366.1	3157.3	2979.0	2881.5
12.5°	6075.4	5648.7	4822.8	4277.3	3975.6	3669.3	3302.1	2997.3	2689.5	2486.8	2400.0
15°	5973.3	5522.3	4675.1	4102.1	3669.3	3268.6	2857.2	2459.4	2154.7	1962.7	1898.6
17.5°	6223.2	5677.7	4673.5	3869.0	3309.7	2831.2	2304.0	1930.6	1618.3	1475.0	1429.3
20°	6689.5	5976.3	4687.2	3638.8	2919.6	2246.1	1676.2	1369.9	1220.5	1159.6	1136.8
22.5°	7340.2	6432.0	4728.4	3411.8	2492.9	1724.9	1255.6	1100.2	1046.9	1036.2	1031.6
25°	8141.6	6995.8	4867.0	3207.6	2133.3	1316.5	1049.9	979.8	949.3	938.7	937.2
27.5°	8879.2	7724.1	5034.6	3032.4	1785.9	1135.2	949.3	889.9	859.4	857.9	861.0
30°	9545.1	8333.7	5174.8	2835.8	1522.3	1008.7	883.8	824.3	795.4	793.9	803.0
32.5°	10121.1	8835.0	5278.4	2642.2	1376.0	931.1	824.3	760.4	736.0	731.4	736.0
35°	10736.7	9334.8	5231.2	2491.4	1292.2	867.0	780.2	717.7	688.7	675.0	675.0
37.5°	11439.2	9849.8	5150.4	2366.5	1254.1	813.7	742.1	681.1	652.2	638.5	637.0
40°	12205.6	10364.9	5039.2	2255.2	1216.0	781.7	716.2	652.2	617.2	603.5	600.4
42.5°	12882.2	10805.2	4947.8	2182.1	1153.5	787.8	693.3	630.9	586.7	568.4	566.9
45°	13470.4	11248.7	4931.0	2139.4	1101.7	778.7	687.2	614.1	562.3	542.5	539.4
47.5°	13930.6	11710.4	5027.0	2115.0	1045.3	729.9	726.9	603.5	541.0	519.6	516.5
50°	14491.4	12365.7	5246.4	2064.8	993.5	684.2	768.0	601.9	524.2	496.7	489.1
52.5°	15238.0	13219.0	5543.6	1974.9	918.9	641.5	733.0	601.9	504.4	476.9	467.8
55°	16367.1	14307.0	5834.6	1848.3	813.7	585.1	661.3	583.6	475.4	451.0	445.0
57.5°	17115.4	15102.4	6020.6	1673.1	682.7	544.0	569.9	554.7	446.5	420.5	420.5
60°	17153.4	15315.7	5932.2	1452.2	600.4	505.9	495.2	559.2	420.5	393.1	390.1
62.5°	16714.5	14793.1	5472.0	1254.1	556.2	464.8	448.0	490.6	394.6	367.2	362.7
65°	16028.9	13459.8	4673.5	1159.6	531.8	428.2	403.8	402.3	367.2	341.3	335.2
67.5°	14768.7	11762.2	3840.0	1104.7	519.6	387.0	364.2	356.6	335.2	313.9	310.9
70°	12911.2	9851.4	3079.6	1081.9	513.5	344.4	326.1	317.0	298.6	281.9	280.4
72.5°	10044.9	7990.8	2541.7	1066.7	510.4	304.7	284.9	272.8	262.1	246.9	246.9
75°	7215.2	5878.8	1939.8	961.5	472.4	262.1	240.8	233.2	217.9	205.7	208.7
77.5°	4548.5	3958.8	1276.9	707.0	365.7	210.3	192.0	187.5	175.2	158.5	169.1
80°	3072.0	2784.0	745.1	445.0	230.1	153.9	147.8	146.3	132.6	114.3	115.8
82.5°	2090.7	2051.1	387.0	253.0	132.6	89.9	86.8	89.9	74.7	60.9	60.9
85°	816.7	1115.5	182.8	99.0	42.7	13.7	19.8	21.3	12.2	6.1	7.6
87.5°	15.3	114.3	4.5	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°	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9
2.5°	6189.7	6176.0	6198.9	6101.3	6121.1	6157.7	6176.0	6186.6	6337.5	6302.4	6398.4
5°	4828.9	4815.2	4903.6	4915.8	4961.5	4952.3	4996.6	5007.2	5062.1	5081.9	5216.0
7.5°	3512.4	3571.8	3672.3	3724.2	3801.9	3826.3	3803.4	3859.8	3745.5	3827.8	3852.2
10°	2822.1	2750.4	2707.8	2826.6	2841.9	2954.7	2908.9	2872.4	2939.4	2942.4	3006.5
12.5°	2349.7	2195.8	2093.7	2127.3	2163.8	2212.5	2220.2	2293.3	2342.1	2387.8	2425.9
15°	1842.2	1788.9	1696.0	1650.3	1702.1	1721.9	1769.1	1830.1	1881.9	1895.6	1947.4
17.5°	1414.1	1423.3	1408.0	1380.6	1412.5	1427.8	1430.9	1432.3	1446.1	1437.0	1513.1
20°	1138.2	1170.3	1208.4	1214.4	1225.2	1232.8	1219.1	1167.2	1168.8	1200.7	1225.2
22.5°	1030.1	1036.2	1078.8	1092.6	1126.1	1112.4	1072.8	1048.4	1045.3	1053.0	1065.1
25°	944.8	953.9	984.4	1005.7	1031.6	1007.3	978.3	955.4	952.4	960.0	972.2
27.5°	868.6	882.3	909.7	931.1	955.4	932.6	905.1	885.3	883.8	882.3	889.9
30°	807.6	822.9	842.7	867.0	883.8	864.0	838.1	827.4	825.9	822.9	825.9
32.5°	746.7	771.0	790.8	803.0	819.8	804.5	784.7	778.7	768.0	758.9	754.3
35°	678.1	704.0	734.5	749.7	766.5	751.2	737.5	711.6	693.3	691.8	694.8
37.5°	638.5	649.1	673.5	699.5	716.2	708.5	682.7	656.8	652.2	652.2	655.2
40°	603.5	608.0	618.6	652.2	682.7	659.8	627.8	620.2	620.2	618.6	620.2
42.5°	568.4	572.9	572.9	598.8	647.6	611.1	586.7	586.7	586.7	588.2	592.7
45°	536.4	537.9	536.4	554.7	600.4	569.9	553.1	557.7	560.8	563.8	566.9
47.5°	509.0	510.4	509.0	524.2	547.1	534.9	525.7	531.8	537.9	542.5	545.5
50°	484.6	483.0	486.1	495.2	505.9	509.0	502.8	512.0	515.1	521.2	528.8
52.5°	463.2	461.7	464.8	469.3	484.6	484.6	484.6	492.2	498.3	504.4	515.1
55°	438.9	440.4	445.0	451.0	470.8	467.8	469.3	475.4	481.5	490.6	496.7
57.5°	416.0	419.1	425.2	434.3	454.1	452.6	454.1	457.1	464.8	469.3	475.4
60°	390.1	396.2	403.8	409.9	429.7	428.2	435.8	441.9	446.5	446.5	449.5
62.5°	364.2	373.3	380.9	385.5	406.8	408.4	419.1	423.6	426.7	423.6	428.2
65°	338.3	352.0	355.0	361.1	382.5	384.0	396.2	406.8	403.8	400.7	408.4
67.5°	312.4	329.2	327.6	335.2	356.6	359.6	370.3	388.6	382.5	379.4	385.5
70°	283.4	295.6	297.1	301.7	330.7	326.1	342.9	359.6	355.0	356.6	356.6
72.5°	251.4	262.1	262.1	271.2	301.7	294.1	307.8	326.1	326.1	324.6	324.6
75°	213.4	219.4	225.5	239.2	271.2	262.1	271.2	288.0	291.0	288.0	288.0
77.5°	172.2	181.3	184.4	202.6	225.5	224.0	233.2	240.8	246.9	243.8	243.8
80°	121.9	131.1	143.2	163.0	176.7	181.3	185.9	192.0	195.0	195.0	198.1
82.5°	68.6	82.3	92.9	112.8	118.9	141.7	140.2	144.8	140.2	123.4	137.1
85°	15.3	29.0	41.1	51.8	59.4	82.3	86.8	97.6	80.7	74.7	74.7
87.5°	0.0	0.0	0.0	0.0	0.0	12.2	24.4	33.5	29.0	24.4	24.4
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°	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9
2.5°	6479.2	6611.8	6771.8	7047.5	7241.1	7449.9	7660.2	7884.2	7943.6	8004.5
5°	5252.5	5513.1	5654.8	6025.1	6413.7	6907.4	7311.2	7753.1	7937.5	7980.2
7.5°	3978.7	4155.4	4527.2	4902.0	5383.6	5901.7	6520.4	7209.1	7423.9	7513.9
10°	3154.2	3395.0	3721.1	4123.4	4545.5	5103.2	5801.1	6605.7	6910.4	6960.7
12.5°	2684.9	2953.2	3308.2	3733.3	4132.5	4553.1	5257.1	6087.6	6413.7	6521.8
15°	2147.1	2471.6	2881.5	3329.5	3763.8	4224.0	4937.1	5874.2	6250.6	6377.1
17.5°	1686.8	1949.0	2392.4	2878.5	3393.5	3975.6	4870.1	5976.3	6439.5	6556.9
20°	1290.7	1478.1	1851.4	2365.0	2968.4	3730.3	4886.9	6361.9	6916.6	7076.5
22.5°	1115.5	1211.5	1438.4	1927.6	2602.7	3516.9	4955.4	6890.6	7559.6	7826.2
25°	1010.3	1060.6	1188.6	1508.5	2253.7	3309.7	5112.4	7602.2	8458.6	8635.4
27.5°	920.3	957.0	1036.2	1266.3	1936.8	3117.7	5295.2	8391.6	9298.2	9561.8
30°	835.1	883.8	958.5	1124.5	1734.1	2942.4	5525.3	9031.6	10005.3	10250.6
32.5°	769.5	818.3	886.8	1025.5	1561.9	2758.1	5662.4	9593.9	10582.8	10791.5
35°	716.2	757.3	829.0	946.3	1430.9	2617.9	5635.0	10040.3	11142.0	11355.4
37.5°	678.1	713.2	784.7	871.6	1331.8	2471.6	5621.3	10630.0	11823.1	12070.0
40°	643.1	679.6	745.1	822.9	1232.8	2299.4	5628.9	11215.1	12548.5	12795.4
42.5°	615.6	656.8	710.1	809.2	1130.7	2160.8	5628.9	11724.1	13179.4	13417.1
45°	592.7	637.0	688.7	807.6	1049.9	2055.6	5590.9	12161.5	13682.2	13884.9
47.5°	572.9	621.7	696.4	780.2	1030.1	1979.4	5557.3	12511.9	14092.1	14282.6
50°	559.2	617.2	740.6	748.2	1036.2	1956.6	5718.8	12953.9	14453.2	14617.8
52.5°	548.6	618.6	739.1	700.9	1025.5	1971.8	6055.6	13644.1	14954.6	14966.8
55°	527.3	617.2	700.9	647.6	981.3	1997.7	6488.3	14646.8	15739.3	15748.5
57.5°	505.9	600.4	650.7	601.9	891.4	1997.7	7009.5	15596.1	16685.7	16693.2
60°	484.6	624.8	571.4	562.3	774.1	1961.1	7559.6	16013.6	16982.8	17060.5
62.5°	463.2	629.3	510.4	527.3	688.7	1872.8	7969.5	15551.9	16580.5	16691.8
65°	438.9	507.5	470.8	490.6	644.6	1724.9	7839.9	14706.2	15824.7	15957.2
67.5°	409.9	429.7	428.2	452.6	629.3	1507.0	7157.3	13636.5	15011.0	15003.4
70°	374.8	385.5	390.1	416.0	600.4	1337.9	5964.2	12248.3	13924.5	14095.2
72.5°	338.3	347.4	352.0	374.8	571.4	1241.9	4629.3	10335.9	12060.9	12327.6
75°	298.6	304.7	310.9	330.7	541.0	1100.2	3297.5	7890.2	9237.3	9656.3
77.5°	257.5	257.5	265.1	284.9	455.6	908.2	2212.5	5534.5	6258.3	6686.4
80°	208.7	210.3	207.3	228.6	335.2	621.7	1257.1	3696.8	4164.5	4246.8
82.5°	160.0	155.4	156.9	167.6	249.9	423.6	670.5	2296.4	2340.5	2294.8
85°	100.5	100.5	97.6	109.7	160.0	221.0	365.7	1406.5	1098.6	1045.3
87.5°	41.1	33.5	38.1	44.2	76.2	89.9	143.2	289.6	111.3	102.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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