

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: P651902

Luminaire Tested: **GALN-SA5A-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651902  
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-SA5A-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 16602.2 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

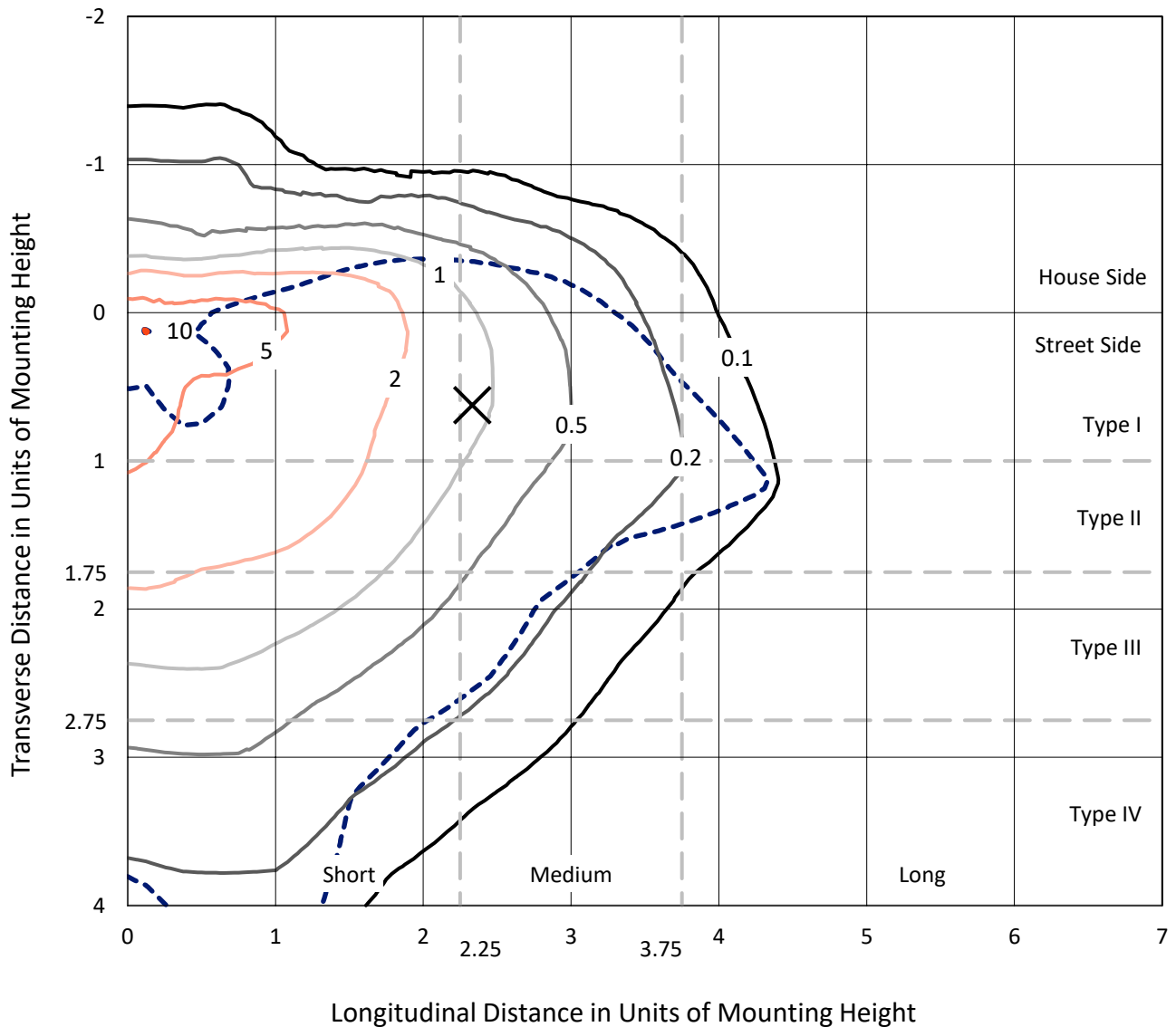
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

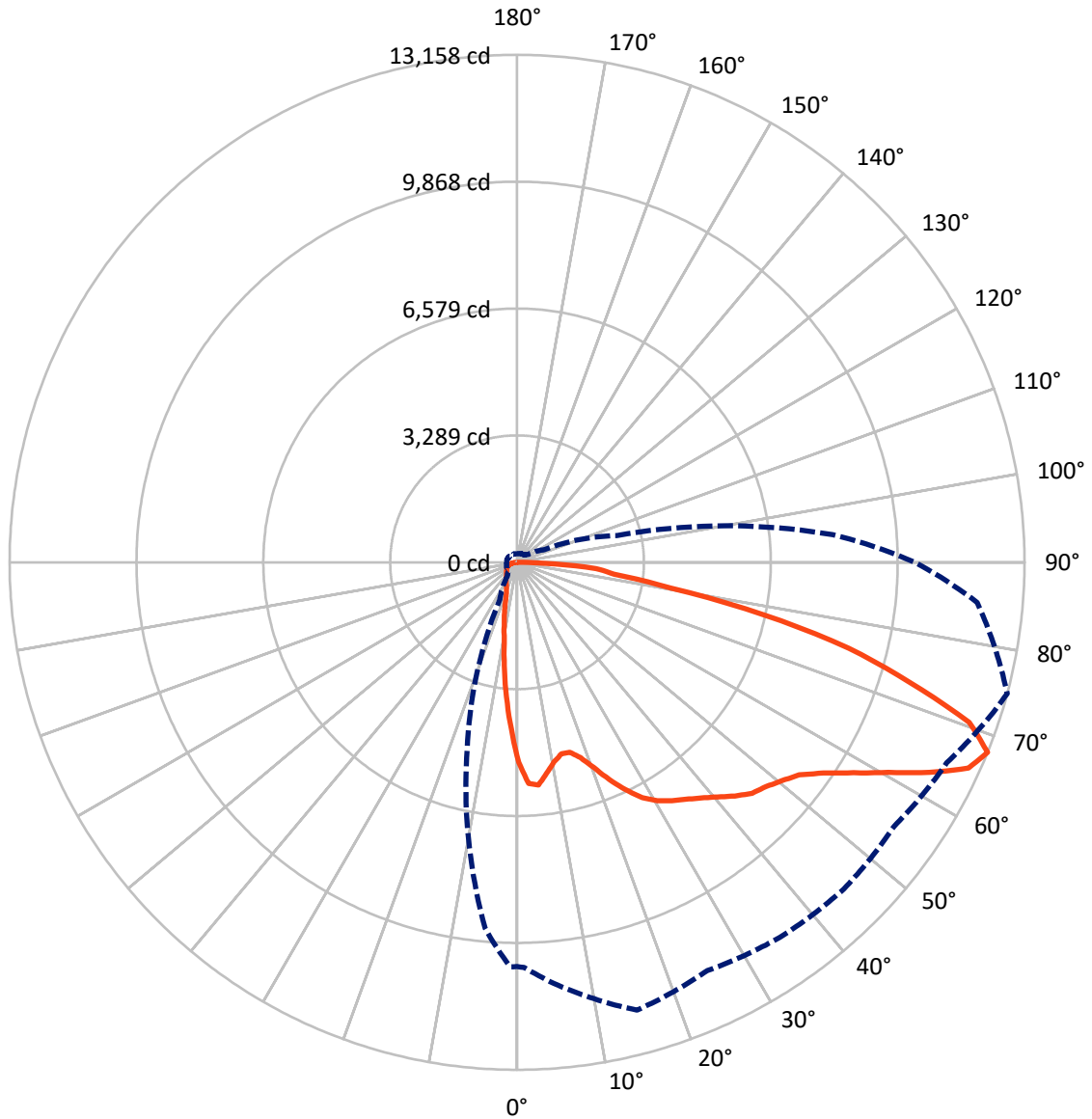
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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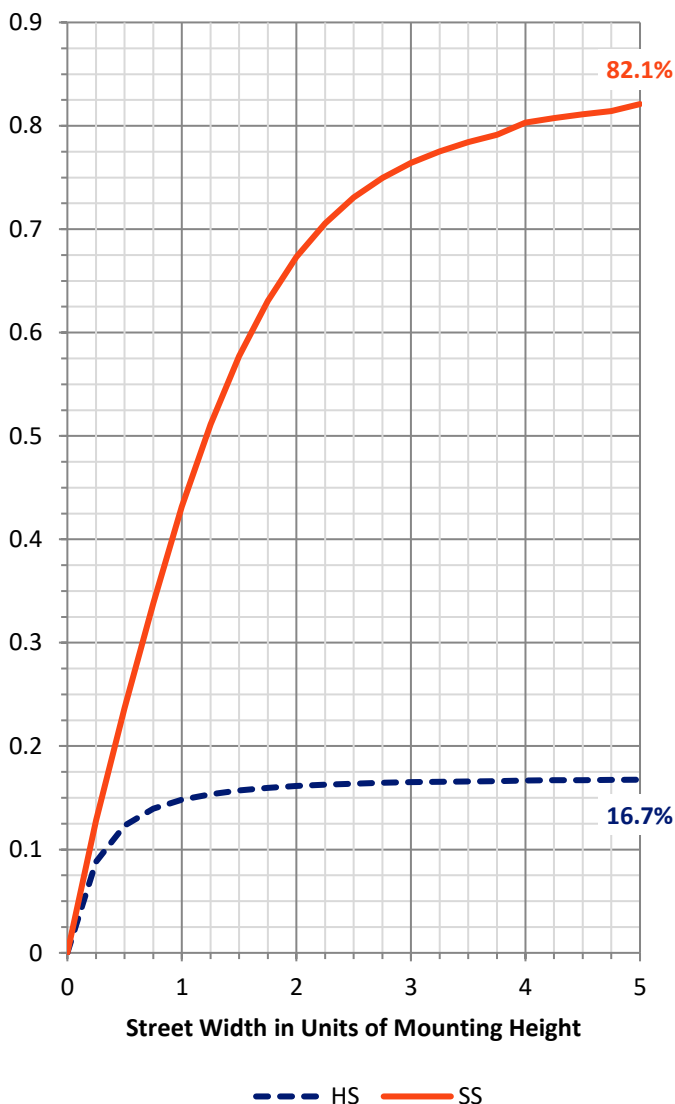
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2806.1	0.0	2806.1
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	13796.1	0.0	13796.1
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	16602.2	0.0	16602.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.4	2.4
10°-20°	820.5	4.9
20°-30°	1180.7	7.1
30°-40°	1700.5	10.2
40°-50°	2388.7	14.4
50°-60°	3331.5	20.1
60°-70°	3960.9	23.9
70°-80°	2332.7	14.1
80°-90°	493.3	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°	16602.2	100.0
0°-180°	16602.2	100.0

**Coefficient of Utilization**

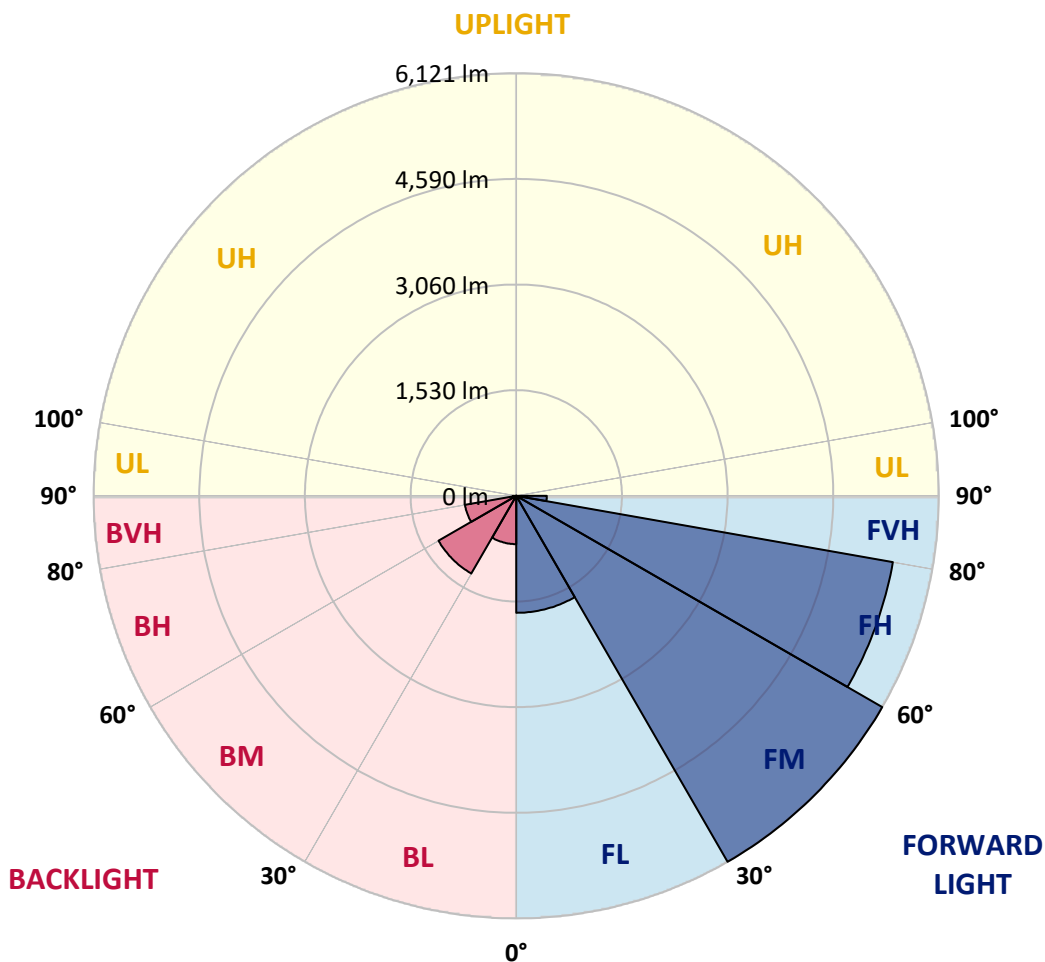


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1694.6	10.2			
FM (30°-60°)	6120.6	36.9			
FH (60°-80°)	5538.6	33.4			G3/7500
FVH (80°-90°)	442.3	2.7			G3/500
BL (0°-30°)	699.9	4.2	B2/1000		
BM (30°-60°)	1300.1	7.8	B2/2500		
BH (60°-80°)	755.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	51.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0
2.5°	5592.6	5600.0	5647.9	5787.3	5883.2	5918.3	5942.8	5897.0	5852.4	5743.7	5579.8
5°	5575.5	5619.1	5743.7	6056.7	6303.7	6410.2	6442.1	6304.8	6078.0	5799.1	5463.7
7.5°	5249.7	5308.3	5499.9	6024.8	6460.2	6709.3	6676.4	6428.3	6019.5	5522.3	5053.8
10°	4863.3	4928.2	5159.2	5793.7	6354.8	6697.6	6697.6	6395.3	5852.4	5261.5	4721.6
12.5°	4556.6	4624.8	4888.8	5556.3	6135.5	6460.2	6514.6	6254.8	5732.0	5096.5	4503.4
15°	4455.5	4521.6	4805.8	5412.6	5903.4	6101.5	6119.5	6034.3	5673.5	5108.1	4493.8
17.5°	4581.1	4666.3	4953.7	5455.2	5690.5	5702.2	5716.0	5783.1	5679.9	5322.1	4687.6
20°	4944.2	5035.7	5336.0	5592.6	5504.2	5382.8	5390.2	5562.7	5755.5	5675.6	5150.7
22.5°	5468.0	5547.8	5855.5	5834.2	5425.4	5175.2	5123.0	5363.6	5867.2	6116.3	5643.6
25°	6033.3	6127.0	6480.4	6193.0	5447.7	5051.7	5018.7	5246.5	5983.3	6528.3	6213.2
27.5°	6680.6	6772.2	7051.1	6555.0	5564.9	5042.1	5002.8	5235.9	6087.6	6909.5	6757.3
30°	7161.8	7245.9	7435.4	6859.4	5708.6	5106.0	5057.0	5320.0	6177.1	7170.4	7287.4
32.5°	7539.7	7627.0	7730.3	7048.9	5898.1	5222.0	5131.5	5473.3	6294.1	7369.4	7680.3
35°	7933.7	8036.9	8029.5	7217.2	6074.8	5356.2	5267.9	5694.7	6478.3	7542.9	8178.6
37.5°	8433.0	8474.5	8421.3	7368.3	6286.6	5597.9	5548.9	6023.7	6740.2	7752.7	8760.9
40°	8939.7	9022.8	8749.2	7551.5	6544.3	6052.4	6047.1	6510.3	7051.1	7998.6	9325.2
42.5°	9374.1	9444.4	9055.8	7711.1	6856.3	6607.1	6647.6	7162.9	7458.8	8283.9	9778.7
45°	9701.0	9763.8	9339.0	7865.5	7267.2	7248.1	7486.5	7862.3	7973.1	8540.5	10044.8
47.5°	9978.9	10039.5	9535.9	8099.8	7775.0	8013.6	8428.8	8591.7	8412.8	8687.4	10343.0
50°	10213.1	10231.2	9671.2	8378.7	8405.3	8951.4	9353.9	9459.3	8847.2	8898.2	10601.6
52.5°	10456.9	10433.4	9904.3	8730.0	9086.7	9841.6	10134.3	10244.0	9263.4	9158.0	10978.6
55°	11003.1	11025.4	10427.1	9173.0	9775.5	10715.6	11100.9	10995.6	9724.4	9636.0	11457.6
57.5°	11663.1	11644.0	11162.8	9866.0	10477.1	11528.9	11816.4	11647.1	10339.8	10292.9	11943.1
60°	11919.7	11945.2	11778.1	10611.2	11169.2	12241.2	12535.0	12272.0	11077.6	11056.3	12309.4
62.5°	11662.1	11805.8	11918.7	11274.5	11758.9	12765.0	13056.7	12756.5	11847.3	12001.7	12565.9
65°	11148.9	11179.7	11564.1	11836.7	12043.2	12851.2	13003.5	12843.8	12490.4	12862.9	12554.2
67.5°	10482.4	10509.1	10959.4	12020.8	11676.9	11871.8	11978.3	11931.4	12291.2	13157.9	11976.1
70°	9847.9	9826.6	10302.5	11551.3	10165.2	9869.2	9957.5	9810.6	10605.9	12437.1	10842.3
72.5°	8612.9	8689.5	9200.6	10246.1	8048.6	7567.4	7760.2	7380.0	8157.3	10651.7	8800.3
75°	6746.6	6764.7	7617.4	8599.1	6071.6	5312.5	5573.4	5414.8	6248.4	8885.5	6077.0
77.5°	4671.7	4631.1	5547.8	6567.8	4329.9	3889.1	3893.4	3817.8	4362.9	6542.2	4128.6
80°	2967.1	2905.4	3472.8	4057.3	2975.6	3183.3	3078.9	3075.7	2840.5	4036.0	2496.6
82.5°	1603.4	1671.5	2194.3	2543.4	2134.6	2460.3	2254.9	2188.9	1949.4	2526.4	1597.0
85°	730.3	794.2	1170.0	1730.0	1621.4	1639.5	1095.5	1292.4	1613.0	2051.5	852.8
87.5°	71.3	91.6	241.7	816.6	553.6	436.5	162.9	314.0	405.6	729.3	68.1
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°	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0
2.5°	5512.7	5457.3	5268.9	5113.4	4948.4	4822.8	4658.9	4549.2	4473.6	4359.7	4345.9
5°	5259.3	5124.1	4796.2	4461.9	4173.4	3956.2	3735.8	3533.5	3414.3	3377.0	3329.1
7.5°	4832.4	4604.6	4183.0	3799.7	3468.6	3144.9	2895.8	2719.1	2600.9	2531.7	2448.7
10°	4481.1	4217.0	3703.8	3234.4	2961.8	2760.6	2541.2	2351.8	2205.9	2081.4	2013.3
12.5°	4244.7	3946.6	3369.6	2988.4	2777.7	2563.6	2307.0	2094.2	1879.0	1737.5	1676.8
15°	4173.4	3858.3	3266.3	2866.0	2563.6	2283.7	1996.2	1718.3	1505.4	1371.3	1326.5
17.5°	4348.0	3966.8	3265.3	2703.1	2312.4	1978.1	1609.8	1348.9	1130.6	1030.6	998.6
20°	4673.8	4175.5	3274.9	2542.3	2039.8	1569.3	1171.1	957.1	852.8	810.2	794.2
22.5°	5128.3	4493.8	3303.5	2383.7	1741.7	1205.2	877.2	768.7	731.4	723.9	720.7
25°	5688.4	4887.7	3400.4	2241.1	1490.5	919.9	733.5	684.6	663.3	655.8	654.7
27.5°	6203.6	5396.6	3517.6	2118.6	1247.8	793.1	663.3	621.8	600.5	599.4	601.5
30°	6668.9	5822.5	3615.5	1981.3	1063.6	704.8	617.5	576.0	555.7	554.6	561.0
32.5°	7071.3	6172.8	3687.9	1846.1	961.3	650.5	576.0	531.3	514.2	511.0	514.2
35°	7501.5	6522.0	3654.9	1740.7	902.8	605.8	545.1	501.4	481.2	471.6	471.6
37.5°	7992.3	6881.8	3598.5	1653.4	876.2	568.5	518.5	475.9	455.7	446.1	445.1
40°	8527.7	7241.7	3520.8	1575.7	849.6	546.1	500.4	455.7	431.2	421.6	419.5
42.5°	9000.5	7549.3	3456.8	1524.6	805.9	550.4	484.4	440.8	409.9	397.1	396.0
45°	9411.4	7859.1	3445.2	1494.7	769.8	544.0	480.1	429.1	392.8	379.0	376.9
47.5°	9732.9	8181.8	3512.3	1477.7	730.3	510.0	507.8	421.6	377.9	363.1	360.9
50°	10124.7	8639.5	3665.6	1442.6	694.2	478.0	536.6	420.5	366.3	347.1	341.8
52.5°	10646.4	9235.7	3873.1	1379.7	641.9	448.3	512.1	420.5	352.4	333.2	326.8
55°	11435.2	9995.9	4076.5	1291.4	568.5	408.8	462.0	407.7	332.2	315.1	310.8
57.5°	11958.0	10551.6	4206.3	1169.0	476.9	380.0	398.2	387.5	311.9	293.8	293.8
60°	11984.6	10700.6	4144.6	1014.6	419.5	353.5	346.0	390.7	293.8	274.7	272.6
62.5°	11678.0	10335.5	3823.1	876.2	388.6	324.7	313.0	342.8	275.8	256.6	253.4
65°	11198.9	9404.0	3265.3	810.2	371.6	299.1	282.2	281.1	256.6	238.5	234.2
67.5°	10318.5	8217.9	2682.9	771.9	363.1	270.4	254.5	249.1	234.2	219.3	217.1
70°	9020.7	6882.9	2151.6	755.9	358.8	240.6	227.8	221.4	208.7	197.0	195.9
72.5°	7018.1	5583.0	1775.9	745.2	356.7	212.9	199.1	190.6	183.1	172.5	172.5
75°	5041.0	4107.4	1355.3	671.8	330.0	183.1	168.2	162.9	152.2	143.7	145.8
77.5°	3178.0	2766.0	892.1	494.0	255.5	146.9	134.1	130.9	122.4	110.8	118.2
80°	2146.3	1945.1	520.6	310.8	160.8	107.6	103.3	102.2	92.6	79.8	80.9
82.5°	1460.6	1433.0	270.4	176.7	92.6	62.8	60.7	62.8	52.1	42.6	42.6
85°	570.6	779.4	127.7	69.2	29.8	9.6	13.9	14.9	8.5	4.3	5.3
87.5°	10.7	79.8	3.2	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°	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0
2.5°	4324.6	4315.0	4331.0	4262.8	4276.7	4302.2	4315.0	4322.4	4427.9	4403.3	4470.4
5°	3373.8	3364.3	3426.0	3434.6	3466.4	3460.0	3490.9	3498.4	3536.7	3550.5	3644.2
7.5°	2454.0	2495.5	2565.8	2602.0	2656.3	2673.3	2657.3	2696.8	2616.9	2674.4	2691.4
10°	1971.7	1921.7	1891.8	1974.9	1985.5	2064.3	2032.4	2006.9	2053.7	2055.8	2100.6
12.5°	1641.6	1534.2	1462.8	1486.2	1511.8	1545.8	1551.1	1602.3	1636.3	1668.3	1694.9
15°	1287.2	1249.9	1185.0	1153.0	1189.2	1203.1	1236.0	1278.7	1314.8	1324.4	1360.6
17.5°	988.0	994.4	983.7	964.5	986.9	997.6	999.7	1000.8	1010.4	1004.0	1057.2
20°	795.2	817.6	844.3	848.5	856.0	861.3	851.7	815.5	816.6	838.9	856.0
22.5°	719.7	723.9	753.8	763.4	786.8	777.2	749.5	732.5	730.3	735.6	744.2
25°	660.1	666.5	687.8	702.7	720.7	703.7	683.5	667.5	665.4	670.7	679.3
27.5°	606.9	616.5	635.6	650.5	667.5	651.5	632.4	618.6	617.5	616.5	621.8
30°	564.2	574.9	588.8	605.8	617.5	603.7	585.6	578.1	577.0	574.9	577.0
32.5°	521.7	538.7	552.5	561.0	572.8	562.1	548.2	544.0	536.6	530.2	527.0
35°	473.7	491.9	513.2	523.8	535.5	524.9	515.3	497.2	484.4	483.3	485.5
37.5°	446.1	453.6	470.5	488.7	500.4	495.1	476.9	458.8	455.7	455.7	457.8
40°	421.6	424.8	432.3	455.7	476.9	461.0	438.7	433.3	433.3	432.3	433.3
42.5°	397.1	400.3	400.3	418.4	452.5	426.9	409.9	409.9	409.9	410.9	414.1
45°	374.7	375.8	374.7	387.5	419.5	398.2	386.4	389.6	391.8	393.9	396.0
47.5°	355.6	356.7	355.6	366.3	382.2	373.7	367.3	371.6	375.8	379.0	381.1
50°	338.6	337.5	339.6	346.0	353.5	355.6	351.4	357.7	359.9	364.1	369.5
52.5°	323.6	322.6	324.7	327.9	338.6	338.6	338.6	343.9	348.2	352.4	359.9
55°	306.6	307.7	310.8	315.1	329.0	326.8	327.9	332.2	336.4	342.8	347.1
57.5°	290.6	292.8	297.0	303.4	317.2	316.2	317.2	319.4	324.7	327.9	332.2
60°	272.6	276.8	282.2	286.4	300.2	299.1	304.5	308.7	311.9	311.9	314.0
62.5°	254.5	260.9	266.2	269.4	284.3	285.4	292.8	295.9	298.1	295.9	299.1
65°	236.3	245.9	248.1	252.3	267.2	268.3	276.8	284.3	282.2	280.0	285.4
67.5°	218.2	229.9	228.9	234.2	249.1	251.3	258.7	271.5	267.2	265.1	269.4
70°	198.1	206.5	207.6	210.8	231.0	227.8	239.5	251.3	248.1	249.1	249.1
72.5°	175.7	183.1	183.1	189.5	210.8	205.5	215.0	227.8	227.8	226.7	226.7
75°	149.0	153.3	157.6	167.1	189.5	183.1	189.5	201.3	203.4	201.3	201.3
77.5°	120.3	126.7	128.8	141.6	157.6	156.5	162.9	168.2	172.5	170.3	170.3
80°	85.2	91.6	100.1	114.0	123.5	126.7	129.9	134.1	136.2	136.2	138.4
82.5°	47.9	57.5	64.9	78.8	83.0	99.0	98.0	101.2	98.0	86.2	95.8
85°	10.7	20.3	28.8	36.2	41.5	57.5	60.7	68.1	56.4	52.1	52.1
87.5°	0.0	0.0	0.0	0.0	0.0	8.5	17.1	23.5	20.3	17.1	17.1
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°	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0
2.5°	4526.9	4619.4	4731.2	4924.0	5059.1	5205.0	5352.0	5508.5	5549.9	5592.6
5°	3669.8	3851.9	3950.8	4209.5	4481.1	4826.0	5108.1	5416.9	5545.7	5575.5
7.5°	2779.8	2903.3	3163.0	3425.0	3761.4	4123.3	4555.6	5036.8	5187.0	5249.7
10°	2203.8	2372.0	2599.9	2880.9	3175.8	3565.5	4053.1	4615.2	4828.1	4863.3
12.5°	1875.9	2063.3	2311.3	2608.4	2887.3	3181.2	3673.0	4253.2	4481.1	4556.6
15°	1500.1	1726.8	2013.3	2326.2	2629.6	2951.2	3449.4	4104.2	4367.1	4455.5
17.5°	1178.6	1361.7	1671.5	2011.1	2370.9	2777.7	3402.6	4175.5	4499.2	4581.1
20°	901.7	1032.7	1293.5	1652.3	2073.9	2606.3	3414.3	4444.9	4832.4	4944.2
22.5°	779.4	846.4	1005.0	1346.8	1818.4	2457.1	3462.2	4814.3	5281.6	5468.0
25°	705.9	741.0	830.4	1054.0	1574.6	2312.4	3571.9	5311.5	5909.8	6033.3
27.5°	643.0	668.6	723.9	884.7	1353.2	2178.3	3699.6	5862.9	6496.4	6680.6
30°	583.4	617.5	669.7	785.7	1211.5	2055.8	3860.4	6310.1	6990.4	7161.8
32.5°	537.7	571.7	619.6	716.5	1091.3	1927.0	3956.2	6702.9	7393.9	7539.7
35°	500.4	529.2	579.2	661.1	999.7	1829.0	3937.1	7014.9	7784.6	7933.7
37.5°	473.7	498.2	548.2	609.0	930.5	1726.8	3927.5	7426.9	8260.6	8433.0
40°	449.3	474.8	520.6	574.9	861.3	1606.6	3932.8	7835.8	8767.3	8939.7
42.5°	430.1	458.8	496.1	565.3	790.0	1509.7	3932.8	8191.3	9208.0	9374.1
45°	414.1	445.1	481.2	564.2	733.5	1436.2	3906.2	8496.9	9559.4	9701.0
47.5°	400.3	434.4	486.5	545.1	719.7	1382.9	3882.7	8741.8	9845.8	9978.9
50°	390.7	431.2	517.4	522.8	723.9	1367.0	3995.6	9050.5	10098.1	10213.1
52.5°	383.2	432.3	516.4	489.7	716.5	1377.6	4230.9	9532.7	10448.3	10456.9
55°	368.4	431.2	489.7	452.5	685.7	1395.7	4533.2	10233.3	10996.7	11003.1
57.5°	353.5	419.5	454.6	420.5	622.8	1395.7	4897.3	10896.6	11657.8	11663.1
60°	338.6	436.5	399.2	392.8	540.8	1370.2	5281.6	11188.2	11865.4	11919.7
62.5°	323.6	439.7	356.7	368.4	481.2	1308.4	5568.1	10865.7	11584.4	11662.1
65°	306.6	354.6	329.0	342.8	450.4	1205.2	5477.6	10274.8	11056.3	11148.9
67.5°	286.4	300.2	299.1	316.2	439.7	1052.9	5000.6	9527.4	10487.8	10482.4
70°	261.9	269.4	272.6	290.6	419.5	934.8	4167.0	8557.6	9728.7	9847.9
72.5°	236.3	242.7	245.9	261.9	399.2	867.7	3234.4	7221.4	8426.6	8612.9
75°	208.7	212.9	217.1	231.0	377.9	768.7	2303.8	5512.7	6453.8	6746.6
77.5°	179.9	179.9	185.3	199.1	318.3	634.5	1545.8	3866.7	4372.4	4671.7
80°	145.8	146.9	144.8	159.7	234.2	434.4	878.3	2582.8	2909.7	2967.1
82.5°	111.8	108.6	109.7	117.2	174.6	295.9	468.4	1604.4	1635.3	1603.4
85°	70.3	70.3	68.1	76.6	111.8	154.4	255.5	982.6	767.6	730.3
87.5°	28.8	23.5	26.6	30.9	53.2	62.8	100.1	202.3	77.7	71.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)