

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: P646842

Luminaire Tested: **GALN-SA3C-835-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646842  
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-SA3C-835-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 14165.3 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

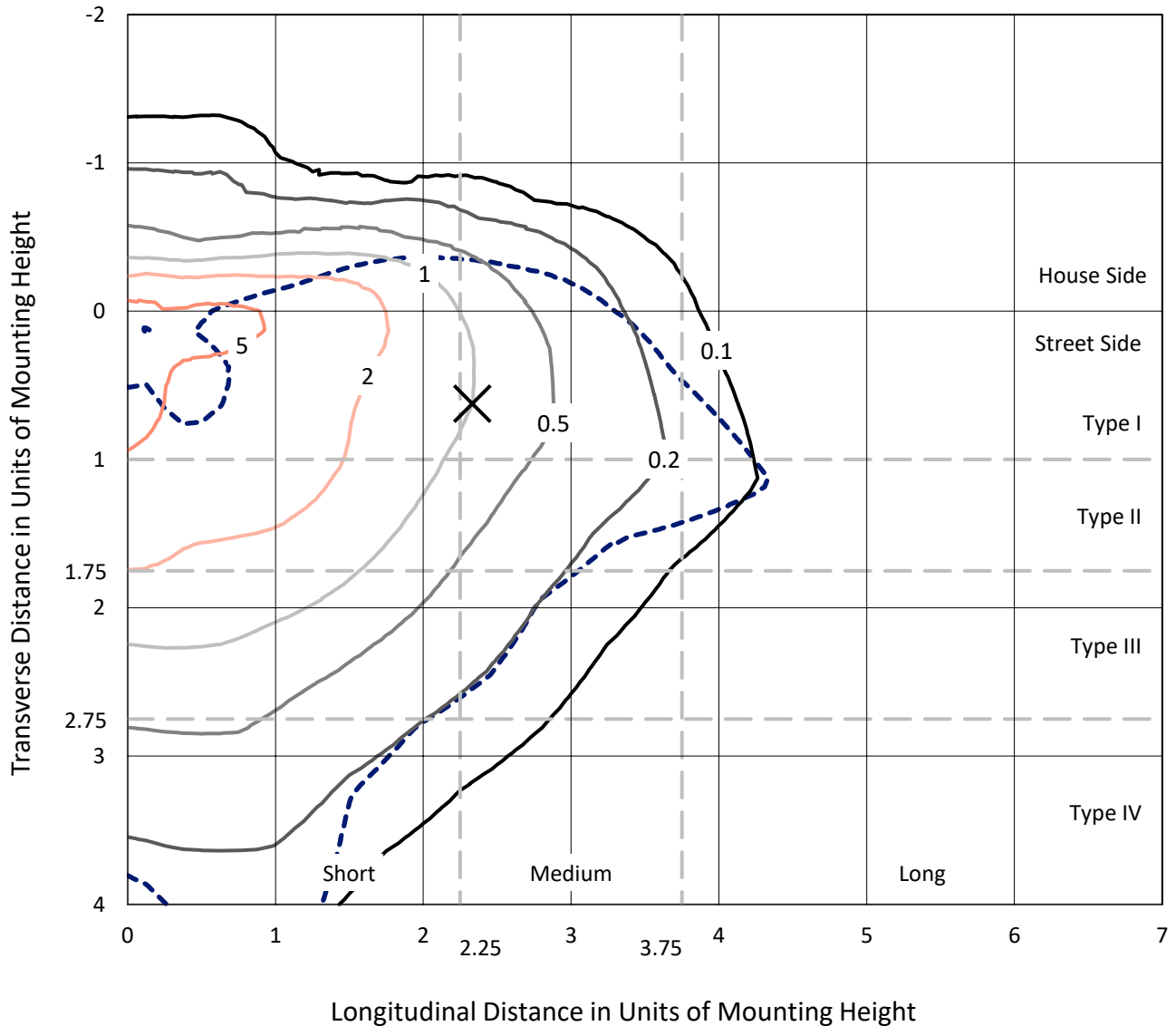
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

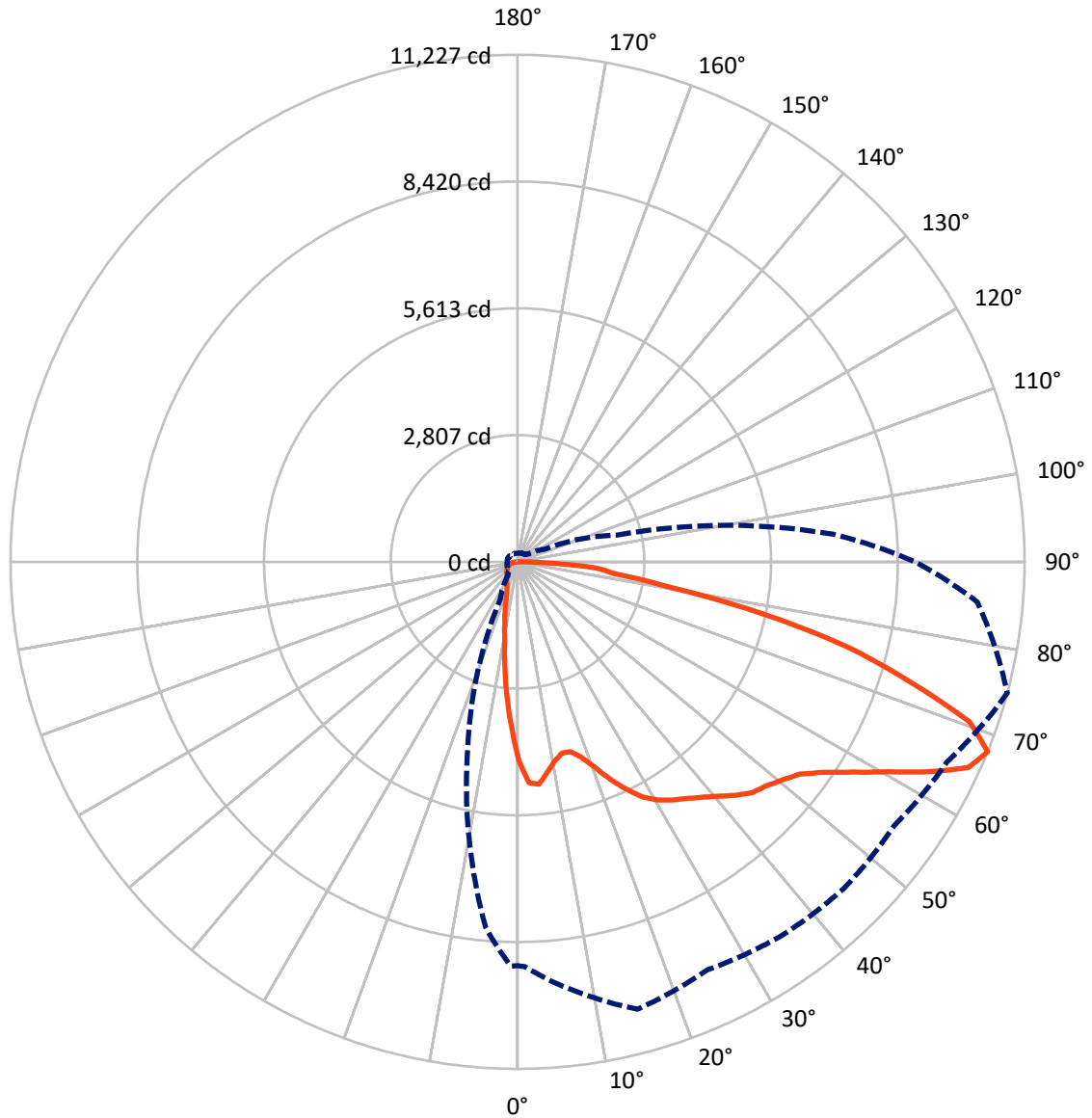
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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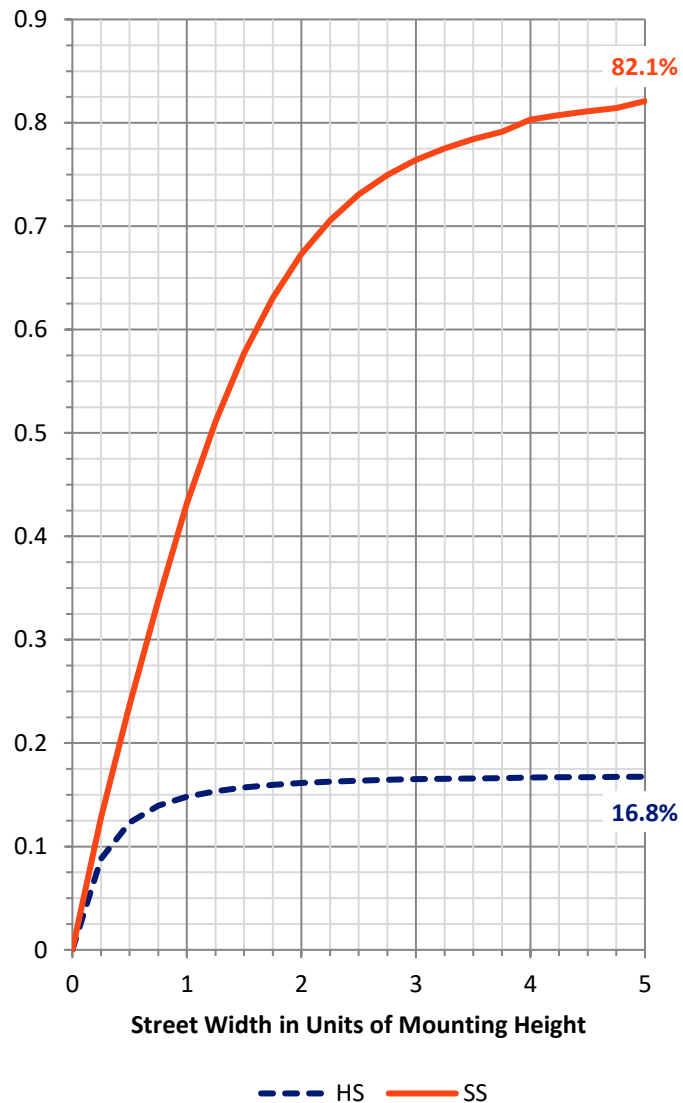
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2394.2	0.0	2394.2
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	11771.0	0.0	11771.0
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	14165.3	0.0	14165.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.7	2.4
10°-20°	700.0	4.9
20°-30°	1007.4	7.1
30°-40°	1450.9	10.2
40°-50°	2038.1	14.4
50°-60°	2842.5	20.1
60°-70°	3379.5	23.9
70°-80°	1990.3	14.1
80°-90°	420.9	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°	14165.3	100.0
0°-180°	14165.3	100.0

**Coefficient of Utilization**

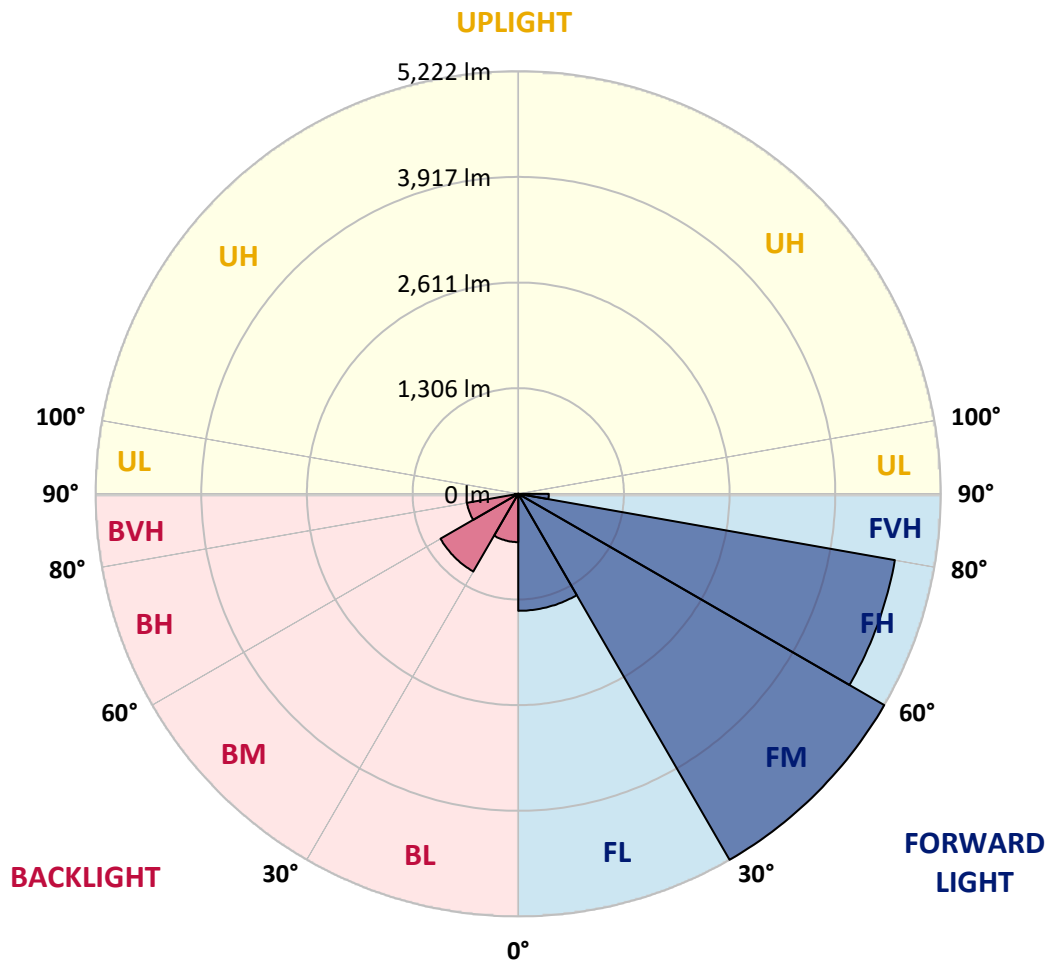


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.9	10.2			
FM (30°-60°)	5222.2	36.9			
FH (60°-80°)	4725.6	33.4			G2/5000
FVH (80°-90°)	377.3	2.7			G3/500
BL (0°-30°)	597.2	4.2	B2/1000		
BM (30°-60°)	1109.3	7.8	B2/2500		
BH (60°-80°)	644.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	43.5	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°	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6
2.5°	4771.7	4778.0	4818.9	4937.9	5019.7	5049.6	5070.5	5031.4	4993.3	4900.6	4760.7
5°	4757.1	4794.4	4900.6	5167.7	5378.4	5469.3	5496.5	5379.4	5185.9	4947.9	4661.7
7.5°	4479.2	4529.1	4692.6	5140.5	5511.9	5724.5	5696.4	5484.7	5135.9	4711.7	4312.0
10°	4149.4	4204.8	4401.9	4943.3	5422.0	5714.6	5714.6	5456.6	4993.3	4489.2	4028.6
12.5°	3887.8	3945.9	4171.2	4740.8	5234.9	5511.9	5558.3	5336.6	4890.6	4348.3	3842.4
15°	3801.5	3857.8	4100.3	4618.1	5036.9	5205.9	5221.3	5148.6	4840.7	4358.3	3834.2
17.5°	3908.7	3981.4	4226.6	4654.5	4855.2	4865.2	4877.0	4934.2	4846.1	4540.9	3999.6
20°	4218.5	4296.6	4552.8	4771.7	4696.3	4592.7	4599.0	4746.2	4910.7	4842.5	4394.7
22.5°	4665.3	4733.5	4996.0	4977.8	4629.0	4415.6	4371.0	4576.3	5006.0	5218.5	4815.2
25°	5147.7	5227.6	5529.2	5284.0	4648.1	4310.2	4282.1	4476.4	5105.0	5570.1	5301.2
27.5°	5700.0	5778.1	6016.1	5592.8	4748.0	4302.0	4268.4	4467.3	5194.0	5895.3	5765.4
30°	6110.6	6182.3	6344.0	5852.6	4870.7	4356.5	4314.7	4539.1	5270.4	6117.8	6217.8
32.5°	6433.0	6507.5	6595.7	6014.3	5032.3	4455.5	4378.3	4669.9	5370.3	6287.7	6552.9
35°	6769.1	6857.3	6850.9	6157.8	5183.1	4570.0	4494.6	4858.8	5527.4	6435.8	6978.1
37.5°	7195.1	7230.6	7185.2	6286.8	5363.9	4776.2	4734.4	5139.5	5750.9	6614.7	7474.9
40°	7627.5	7698.4	7465.0	6443.1	5583.7	5164.0	5159.5	5554.7	6016.1	6824.5	7956.4
42.5°	7998.2	8058.1	7726.6	6579.3	5849.9	5637.3	5671.8	6111.5	6364.0	7068.0	8343.3
45°	8277.0	8330.7	7968.2	6711.0	6200.5	6184.1	6387.6	6708.3	6802.8	7286.9	8570.4
47.5°	8514.1	8565.9	8136.2	6910.8	6633.8	6837.2	7191.5	7330.5	7177.9	7412.3	8824.8
50°	8713.9	8729.4	8251.6	7148.9	7171.6	7637.5	7980.9	8070.9	7548.5	7592.1	9045.5
52.5°	8922.0	8902.0	8450.5	7448.6	7752.9	8397.0	8646.7	8740.3	7903.7	7813.8	9367.1
55°	9387.9	9407.0	8896.5	7826.5	8340.6	9142.7	9471.6	9381.6	8297.0	8221.7	9775.8
57.5°	9951.1	9934.8	9524.3	8417.8	8939.2	9836.7	10082.0	9937.5	8822.1	8782.0	10190.0
60°	10170.1	10191.8	10049.3	9053.7	9529.7	10444.4	10695.1	10470.7	9451.5	9433.3	10502.5
62.5°	9950.2	10072.9	10169.1	9619.6	10032.9	10891.3	11140.2	10884.0	10108.3	10240.0	10721.5
65°	9512.4	9538.7	9866.7	10099.2	10275.5	10964.9	11094.8	10958.6	10656.9	10974.9	10711.4
67.5°	8943.7	8966.4	9350.7	10256.4	9963.0	10129.2	10220.0	10180.1	10487.1	11226.5	10218.2
70°	8402.4	8384.2	8790.3	9855.8	8673.1	8420.5	8495.9	8370.6	9049.1	10611.5	9250.8
72.5°	7348.7	7414.1	7850.1	8742.1	6867.2	6456.7	6621.0	6296.8	6959.9	9088.2	7508.6
75°	5756.3	5771.7	6499.4	7336.9	5180.4	4532.7	4755.3	4619.9	5331.2	7581.2	5184.9
77.5°	3985.9	3951.4	4733.5	5603.7	3694.4	3318.3	3321.9	3257.4	3722.5	5581.9	3522.6
80°	2531.6	2478.9	2963.1	3461.8	2538.9	2716.0	2627.0	2624.3	2423.5	3443.6	2130.2
82.5°	1368.0	1426.2	1872.2	2170.1	1821.3	2099.2	1923.9	1867.6	1663.2	2155.5	1362.6
85°	623.1	677.6	998.3	1476.1	1383.4	1398.9	934.7	1102.8	1376.2	1750.4	727.6
87.5°	60.8	78.1	206.2	696.7	472.4	372.4	139.0	267.9	346.1	622.3	58.1
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°	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6
2.5°	4703.6	4656.3	4495.5	4362.9	4222.1	4114.9	3975.0	3881.5	3817.0	3719.8	3708.0
5°	4487.3	4372.0	4092.2	3806.9	3560.8	3375.5	3187.4	3014.9	2913.2	2881.4	2840.5
7.5°	4123.0	3928.7	3569.0	3241.9	2959.4	2683.3	2470.8	2320.0	2219.1	2160.1	2089.3
10°	3823.3	3598.0	3160.2	2759.6	2527.1	2355.4	2168.3	2006.6	1882.1	1775.8	1717.7
12.5°	3621.7	3367.3	2874.9	2549.8	2369.9	2187.3	1968.5	1786.7	1603.3	1482.5	1430.7
15°	3560.8	3291.9	2786.9	2445.3	2187.3	1948.4	1703.2	1466.1	1284.4	1170.0	1131.8
17.5°	3709.8	3384.6	2786.0	2306.3	1973.0	1687.8	1373.5	1150.9	964.7	879.3	852.1
20°	3987.7	3562.6	2794.1	2169.1	1740.5	1338.9	999.2	816.6	727.6	691.2	677.6
22.5°	4375.6	3834.2	2818.6	2033.8	1486.1	1028.2	748.5	655.8	624.1	617.7	615.0
25°	4853.4	4170.3	2901.3	1912.1	1271.7	784.8	625.9	584.1	565.9	559.5	558.7
27.5°	5293.1	4604.5	3001.2	1807.6	1064.6	676.7	565.9	530.5	512.3	511.4	513.3
30°	5690.0	4967.8	3084.8	1690.5	907.5	601.3	526.9	491.4	474.2	473.2	478.7
32.5°	6033.4	5266.7	3146.6	1575.1	820.3	555.0	491.4	453.3	438.7	436.1	438.7
35°	6400.3	5564.6	3118.5	1485.2	770.3	516.9	465.1	427.8	410.6	402.4	402.4
37.5°	6819.1	5871.7	3070.3	1410.7	747.6	485.1	442.4	406.1	388.8	380.6	379.7
40°	7276.0	6178.7	3004.0	1344.4	724.9	466.0	427.0	388.8	367.9	359.7	357.9
42.5°	7679.4	6441.2	2949.5	1300.8	687.6	469.6	413.3	376.1	349.7	338.8	337.9
45°	8030.0	6705.5	2939.5	1275.4	656.8	464.2	409.7	366.1	335.2	323.4	321.6
47.5°	8304.3	6980.8	2996.7	1260.8	623.1	435.1	433.3	359.7	322.4	309.8	308.0
50°	8638.5	7371.4	3127.5	1230.8	592.3	407.9	457.8	358.8	312.5	296.1	291.6
52.5°	9083.7	7880.1	3304.7	1177.2	547.7	382.4	436.9	358.8	300.7	284.3	278.9
55°	9756.7	8528.7	3478.2	1101.8	485.1	348.8	394.2	347.9	283.4	268.9	265.3
57.5°	10202.8	9002.9	3589.0	997.4	406.9	324.3	339.7	330.7	266.1	250.7	250.7
60°	10225.5	9130.0	3536.3	865.7	357.9	301.6	295.2	333.4	250.7	234.4	232.6
62.5°	9963.8	8818.4	3262.0	747.6	331.5	277.0	267.1	292.5	235.3	218.9	216.2
65°	9555.1	8023.6	2786.0	691.2	317.0	255.3	240.7	239.8	218.9	203.5	199.8
67.5°	8803.9	7011.7	2289.1	658.6	309.8	230.8	217.1	212.6	199.8	187.1	185.3
70°	7696.6	5872.6	1835.8	645.0	306.2	205.3	194.4	188.9	178.1	168.0	167.2
72.5°	5987.9	4763.5	1515.2	635.9	304.3	181.7	169.8	162.6	156.2	147.1	147.1
75°	4301.1	3504.5	1156.3	573.2	281.6	156.2	143.5	139.0	129.9	122.6	124.4
77.5°	2711.5	2360.0	761.2	421.5	218.0	125.4	114.5	111.7	104.5	94.5	100.9
80°	1831.3	1659.6	444.2	265.3	137.2	91.8	88.1	87.2	79.0	68.1	69.1
82.5°	1246.3	1222.7	230.8	150.8	79.0	53.6	51.8	53.6	44.5	36.3	36.3
85°	486.9	664.9	109.0	59.0	25.4	8.1	11.8	12.7	7.3	3.6	4.5
87.5°	9.1	68.1	2.7	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°	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6
2.5°	3689.8	3681.6	3695.2	3637.1	3648.9	3670.7	3681.6	3687.9	3777.9	3757.0	3814.2
5°	2878.6	2870.4	2923.1	2930.4	2957.6	2952.2	2978.5	2984.9	3017.6	3029.4	3109.4
7.5°	2093.8	2129.2	2189.2	2220.0	2266.4	2280.9	2267.3	2300.9	2232.8	2281.8	2296.4
10°	1682.3	1639.6	1614.2	1685.0	1694.1	1761.4	1734.1	1712.3	1752.3	1754.1	1792.2
12.5°	1400.7	1308.9	1248.1	1268.1	1289.9	1319.0	1323.5	1367.1	1396.2	1423.4	1446.1
15°	1098.2	1066.4	1011.0	983.8	1014.6	1026.4	1054.6	1091.0	1121.8	1130.0	1160.9
17.5°	843.0	848.4	839.3	823.0	842.0	851.1	852.9	853.9	862.0	856.6	902.0
20°	678.5	697.7	720.4	724.0	730.3	734.8	726.7	695.8	696.7	715.8	730.3
22.5°	614.0	617.7	643.2	651.3	671.3	663.1	639.5	625.0	623.1	627.7	634.9
25°	563.2	568.6	586.8	599.5	615.0	600.4	583.2	569.6	567.8	572.3	579.6
27.5°	517.8	525.9	542.3	555.0	569.6	555.9	539.6	527.7	526.9	525.9	530.5
30°	481.5	490.5	502.3	516.9	526.9	515.1	499.6	493.2	492.4	490.5	492.4
32.5°	445.1	459.6	471.4	478.7	488.7	479.6	467.8	464.2	457.8	452.3	449.7
35°	404.2	419.7	437.9	446.9	456.9	447.8	439.7	424.2	413.3	412.4	414.2
37.5°	380.6	387.0	401.5	416.9	427.0	422.4	406.9	391.5	388.8	388.8	390.6
40°	359.7	362.5	368.8	388.8	406.9	393.3	374.3	369.7	369.7	368.8	369.7
42.5°	338.8	341.5	341.5	357.0	386.0	364.3	349.7	349.7	349.7	350.6	353.4
45°	319.8	320.6	319.8	330.7	357.9	339.7	329.7	332.5	334.3	336.1	337.9
47.5°	303.4	304.3	303.4	312.5	326.1	318.8	313.4	317.0	320.6	323.4	325.2
50°	288.8	288.0	289.8	295.2	301.6	303.4	299.7	305.2	307.0	310.7	315.2
52.5°	276.2	275.2	277.0	279.8	288.8	288.8	288.8	293.4	297.1	300.7	307.0
55°	261.6	262.5	265.3	268.9	280.7	278.9	279.8	283.4	287.0	292.5	296.1
57.5°	248.0	249.8	253.5	258.9	270.7	269.8	270.7	272.5	277.0	279.8	283.4
60°	232.6	236.2	240.7	244.4	256.2	255.3	259.8	263.4	266.1	266.1	267.9
62.5°	217.1	222.5	227.1	229.8	242.5	243.4	249.8	252.5	254.3	252.5	255.3
65°	201.6	209.8	211.6	215.2	228.0	228.9	236.2	242.5	240.7	238.9	243.4
67.5°	186.2	196.2	195.3	199.8	212.6	214.4	220.7	231.6	228.0	226.2	229.8
70°	169.0	176.3	177.1	179.9	197.1	194.4	204.4	214.4	211.6	212.6	212.6
72.5°	149.9	156.2	156.2	161.7	179.9	175.3	183.5	194.4	194.4	193.5	193.5
75°	127.2	130.8	134.4	142.6	161.7	156.2	161.7	171.7	173.5	171.7	171.7
77.5°	102.7	108.1	109.9	120.8	134.4	133.5	139.0	143.5	147.1	145.3	145.3
80°	72.7	78.1	85.4	97.2	105.4	108.1	110.8	114.5	116.3	116.3	118.1
82.5°	40.9	49.0	55.4	67.2	70.9	84.5	83.5	86.3	83.5	73.6	81.7
85°	9.1	17.2	24.5	30.9	35.4	49.0	51.8	58.1	48.2	44.5	44.5
87.5°	0.0	0.0	0.0	0.0	0.0	7.3	14.6	20.0	17.2	14.6	14.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6	4425.6
2.5°	3862.4	3941.4	4036.8	4201.2	4316.5	4441.0	4566.4	4699.9	4735.3	4771.7
5°	3131.1	3286.5	3371.0	3591.7	3823.3	4117.6	4358.3	4621.7	4731.7	4757.1
7.5°	2371.7	2477.1	2698.8	2922.2	3209.3	3518.1	3886.9	4297.5	4425.6	4479.2
10°	1880.3	2023.8	2218.2	2458.1	2709.6	3042.1	3458.1	3937.8	4119.4	4149.4
12.5°	1600.5	1760.4	1972.1	2225.5	2463.5	2714.2	3133.9	3628.9	3823.3	3887.8
15°	1279.9	1473.4	1717.7	1984.7	2243.7	2518.0	2943.1	3501.7	3726.1	3801.5
17.5°	1005.5	1161.8	1426.2	1715.9	2023.0	2369.9	2903.1	3562.6	3838.7	3908.7
20°	769.4	881.1	1103.6	1409.8	1769.5	2223.6	2913.2	3792.5	4123.0	4218.5
22.5°	664.9	722.2	857.5	1149.1	1551.5	2096.5	2954.0	4107.6	4506.4	4665.3
25°	602.3	632.2	708.5	899.3	1343.5	1973.0	3047.6	4531.8	5042.4	5147.7
27.5°	548.6	570.4	617.7	754.9	1154.5	1858.5	3156.6	5002.4	5542.9	5700.0
30°	497.8	526.9	571.4	670.4	1033.7	1754.1	3293.8	5383.9	5964.3	6110.6
32.5°	458.8	487.8	528.7	611.4	931.1	1644.1	3375.5	5719.1	6308.6	6433.0
35°	427.0	451.5	494.2	564.1	852.9	1560.6	3359.1	5985.3	6642.0	6769.1
37.5°	404.2	425.1	467.8	519.6	793.9	1473.4	3350.9	6336.7	7048.0	7195.1
40°	383.4	405.1	444.2	490.5	734.8	1370.7	3355.5	6685.6	7480.4	7627.5
42.5°	367.0	391.5	423.3	482.3	674.0	1288.0	3355.5	6989.0	7856.5	7998.2
45°	353.4	379.7	410.6	481.5	625.9	1225.4	3332.8	7249.6	8156.2	8277.0
47.5°	341.5	370.6	415.1	465.1	614.0	1180.0	3312.8	7458.6	8400.6	8514.1
50°	333.4	367.9	441.5	446.0	617.7	1166.4	3409.1	7722.0	8615.8	8713.9
52.5°	327.0	368.8	440.6	417.9	611.4	1175.4	3609.9	8133.5	8914.7	8922.0
55°	314.3	367.9	417.9	386.0	585.0	1190.9	3867.8	8731.2	9382.5	9387.9
57.5°	301.6	357.9	387.9	358.8	531.4	1190.9	4178.5	9297.1	9946.6	9951.1
60°	288.8	372.4	340.6	335.2	461.4	1169.1	4506.4	9546.0	10123.7	10170.1
62.5°	276.2	375.1	304.3	314.3	410.6	1116.4	4750.8	9270.8	9884.0	9950.2
65°	261.6	302.5	280.7	292.5	384.2	1028.2	4673.6	8766.6	9433.3	9512.4
67.5°	244.4	256.2	255.3	269.8	375.1	898.3	4266.6	8128.9	8948.3	8943.7
70°	223.5	229.8	232.6	248.0	357.9	797.6	3555.4	7301.5	8300.7	8402.4
72.5°	201.6	207.1	209.8	223.5	340.6	740.3	2759.6	6161.4	7189.7	7348.7
75°	178.1	181.7	185.3	197.1	322.4	655.8	1965.7	4703.6	5506.5	5756.3
77.5°	153.5	153.5	158.1	169.8	271.6	541.4	1319.0	3299.2	3730.7	3985.9
80°	124.4	125.4	123.6	136.2	199.8	370.6	749.4	2203.7	2482.6	2531.6
82.5°	95.4	92.6	93.6	99.9	149.0	252.5	399.6	1368.9	1395.2	1368.0
85°	60.0	60.0	58.1	65.4	95.4	131.7	218.0	838.4	654.9	623.1
87.5°	24.5	20.0	22.7	26.3	45.4	53.6	85.4	172.6	66.3	60.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)