

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: P647943

Luminaire Tested: **GALN-SA5A-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9913.6 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

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

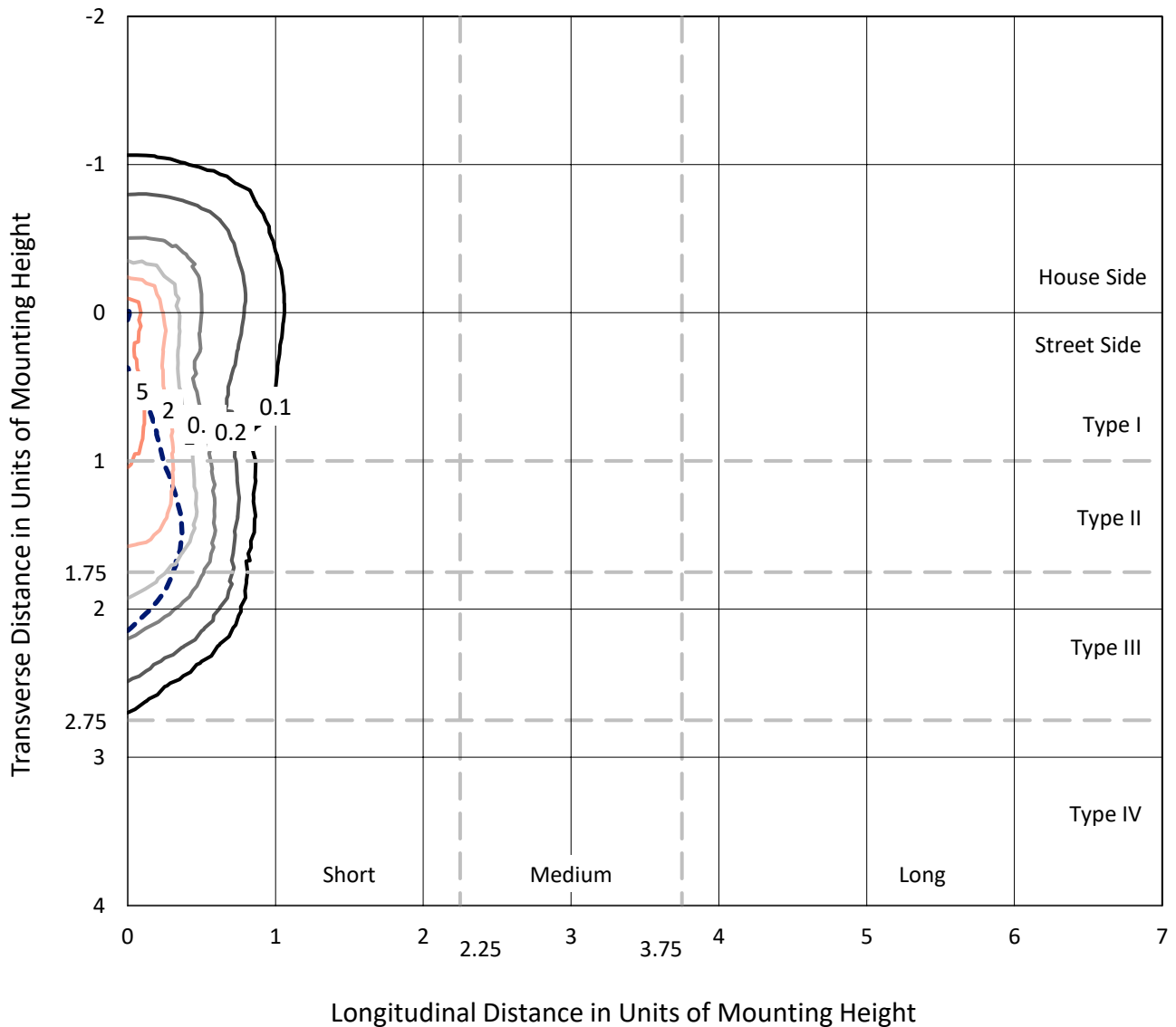




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### Iso-Footcandle Lines of Horizontal Illumination

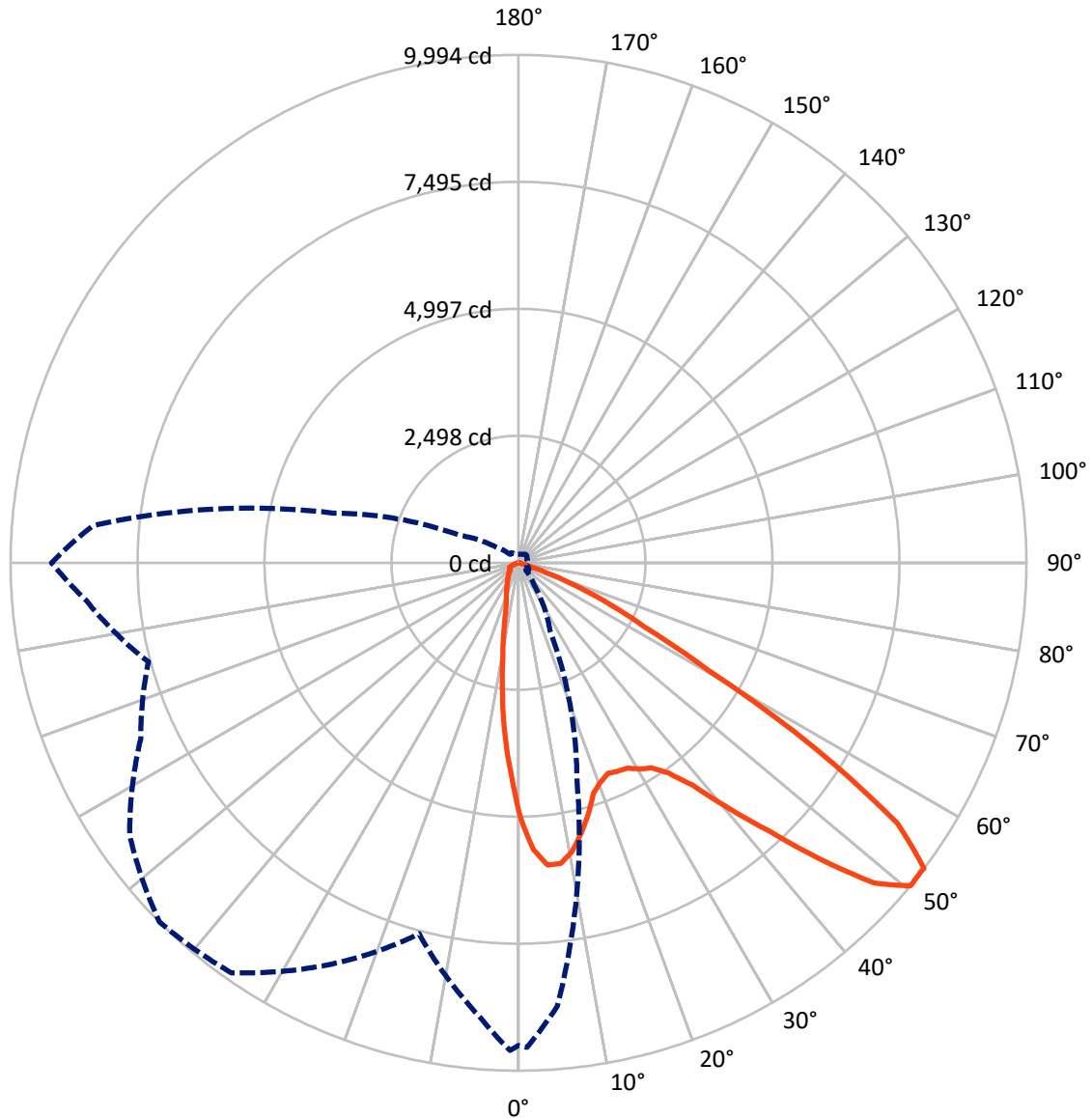
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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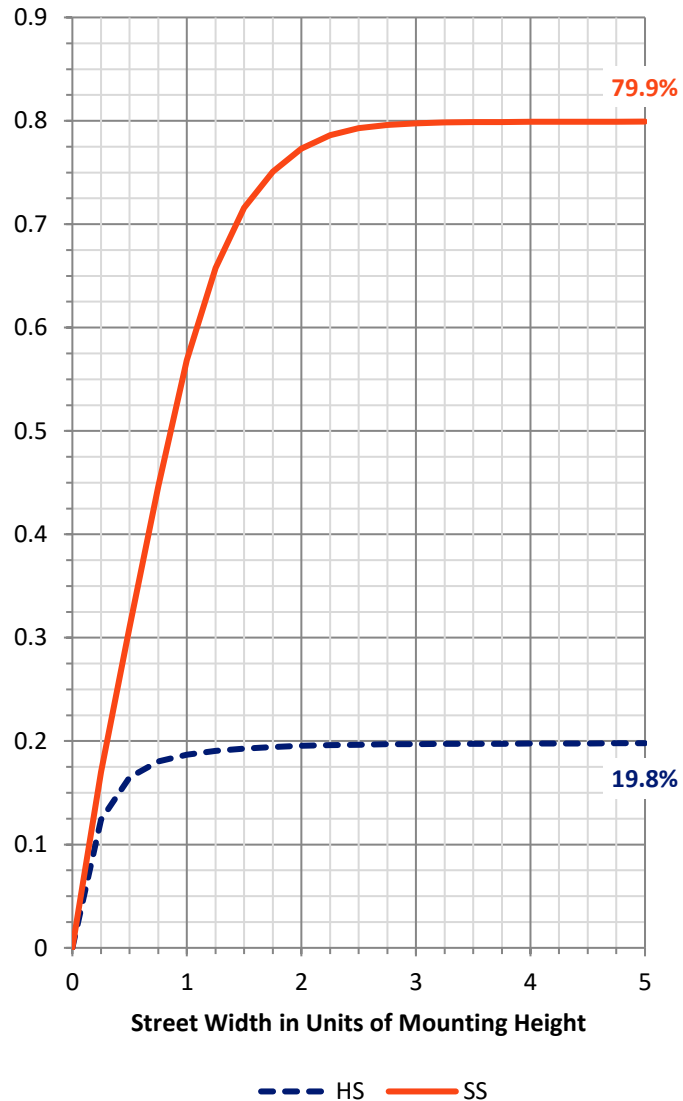
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1985.7	0.0	1985.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	7927.9	0.0	7927.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	9913.6	0.0	9913.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.4	3.7
10°-20°	728.3	7.3
20°-30°	1094.1	11.0
30°-40°	1642.2	16.6
40°-50°	2308.1	23.3
50°-60°	2489.7	25.1
60°-70°	1155.9	11.7
70°-80°	108.8	1.1
80°-90°	20.1	0.2
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°	9913.6	100.0
0°-180°	9913.6	100.0

**Coefficient of Utilization**

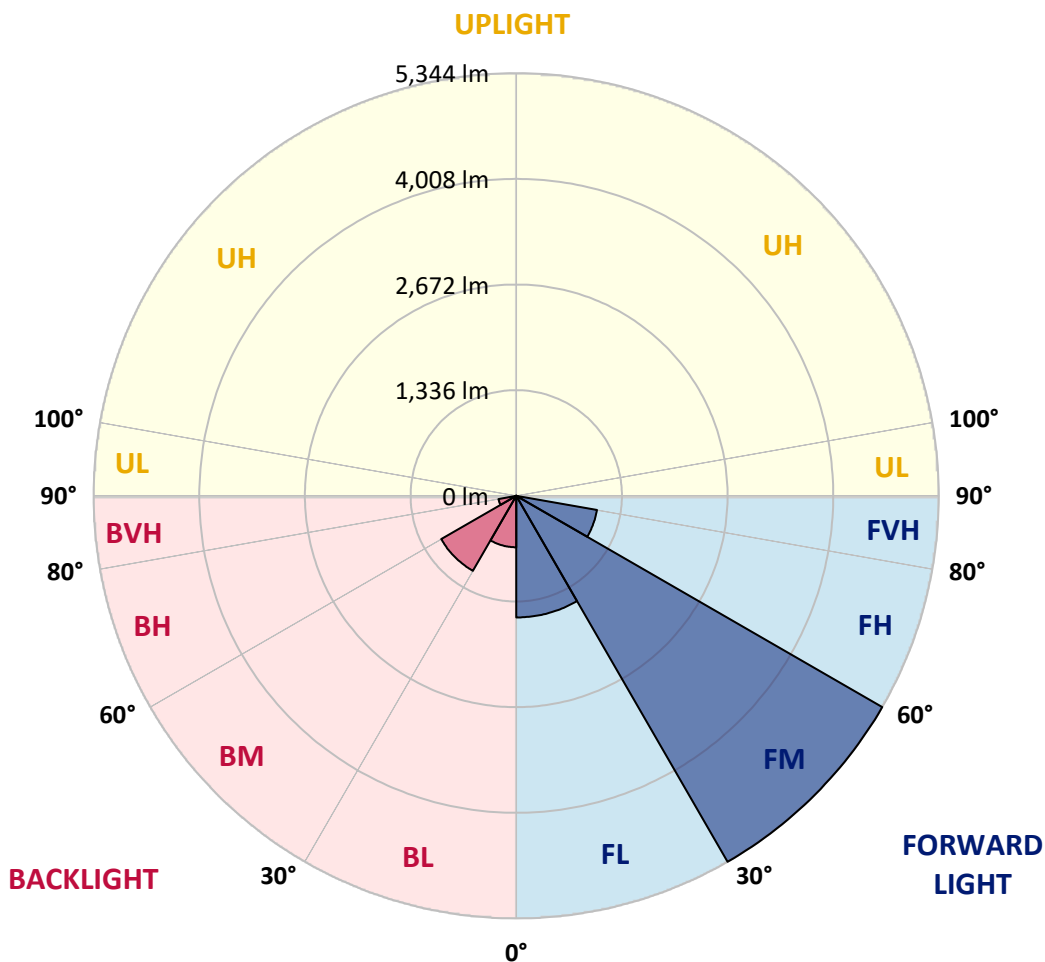


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.0	15.5			
FM (30°-60°)	5344.2	53.9			
FH (60°-80°)	1036.7	10.5			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	650.9	6.6	B2/1000		
BM (30°-60°)	1095.8	11.1	B2/2500		
BH (60°-80°)	228.0	2.3	B1/500		G1/500
BVH (80°-90°)	11.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4
2.5°	5226.1	5145.4	5043.1	4958.6	4832.7	4579.0	4510.2	4427.6	4358.6	4266.3	4136.4
5°	4752.0	4726.5	4679.3	4360.6	4130.5	3823.7	3571.9	3465.7	3326.0	3211.9	3129.3
7.5°	4390.1	4287.9	4138.4	3817.8	3450.0	3121.5	2842.2	2679.0	2494.0	2431.1	2319.0
10°	4002.7	4026.3	3806.0	3355.5	2911.0	2645.5	2472.4	2315.0	2147.8	2037.8	1878.4
12.5°	3878.7	3802.0	3632.9	3076.3	2696.7	2448.8	2238.4	2043.6	1866.6	1689.6	1536.2
15°	3959.4	3841.4	3605.3	3017.2	2531.4	2222.6	1959.1	1695.5	1532.3	1306.0	1146.7
17.5°	4248.6	4154.1	3837.5	3080.2	2446.9	2006.3	1614.9	1343.4	1093.6	889.0	808.4
20°	4730.4	4596.7	4199.4	3160.8	2321.0	1744.7	1310.0	975.6	739.5	653.0	607.8
22.5°	5202.5	5129.7	4628.2	3316.2	2208.8	1512.5	983.4	656.9	552.7	537.0	507.5
25°	6101.4	5883.1	5283.1	3597.5	2122.3	1294.2	741.5	529.1	468.2	456.3	460.2
27.5°	6636.4	6453.4	5888.9	3784.3	2025.9	1127.1	627.4	485.9	444.5	419.0	409.1
30°	7149.7	6937.3	6189.8	3894.5	1819.4	950.0	556.6	466.1	456.3	419.0	407.2
32.5°	7545.1	7336.6	6624.6	4059.7	1734.8	835.9	458.3	363.9	338.3	334.3	369.8
35°	8150.9	7928.7	6996.3	4150.2	1669.9	776.9	397.3	324.6	295.0	283.2	285.2
37.5°	8715.4	8563.9	7340.5	4185.6	1601.1	759.2	356.0	291.1	265.5	257.7	255.7
40°	9187.4	8849.2	7667.1	4223.0	1571.6	725.8	330.4	265.5	247.8	236.0	236.0
42.5°	9403.8	9059.6	8032.9	4201.3	1563.7	672.7	330.4	243.9	230.1	218.3	216.3
45°	9356.6	9216.9	8196.1	4191.5	1563.7	619.6	300.9	238.0	218.3	202.6	198.6
47.5°	9478.5	9295.6	8400.7	4232.8	1532.3	582.2	253.8	249.8	206.6	186.8	182.9
50°	9500.2	9535.6	8756.7	4447.2	1463.3	535.0	198.6	245.9	198.6	169.1	165.2
52°	9641.8	9421.5	8864.9	4561.3	1390.6	499.6	167.2	210.5	190.8	157.4	153.4
52.5°	9447.1	9590.7	8890.4	4602.6	1398.4	476.0	161.3	206.6	186.8	157.4	147.5
55°	9228.8	9366.4	8786.2	4691.1	1282.4	373.7	125.9	149.5	169.1	137.7	131.8
57.5°	8021.1	8160.7	7635.6	4295.8	1044.4	263.6	104.2	112.1	149.5	127.9	121.9
60°	7130.1	7029.8	6408.2	3583.7	741.5	147.5	82.6	86.5	163.3	118.0	116.0
62.5°	6516.4	6302.0	5355.9	2767.4	452.4	98.3	64.9	66.9	125.9	110.2	110.2
65°	4820.9	4580.9	3558.1	1673.8	222.3	68.8	49.2	53.1	78.7	94.4	94.4
67.5°	2751.7	2659.3	1719.1	755.3	92.5	43.3	37.3	41.3	61.0	76.7	72.7
70°	1264.7	1134.9	660.9	159.3	43.3	29.5	29.5	33.4	49.2	57.0	53.1
72.5°	369.8	350.1	161.3	25.6	17.7	17.7	19.7	25.6	37.3	43.3	39.3
75°	27.6	17.7	11.8	7.8	7.8	11.8	15.7	25.6	37.3	41.3	33.4
77.5°	2.0	3.9	2.0	2.0	5.9	11.8	17.7	31.5	49.2	51.1	37.3
80°	2.0	2.0	0.0	2.0	5.9	11.8	19.7	35.4	55.0	59.0	31.5
82.5°	0.0	0.0	0.0	2.0	7.8	15.7	23.6	37.3	51.1	63.0	33.4
85°	0.0	0.0	0.0	2.0	11.8	21.6	27.6	9.9	5.9	0.0	0.0
87.5°	0.0	0.0	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4
2.5°	4228.8	4177.7	4158.0	4175.7	4169.9	4163.9	4272.1	4248.6	4244.6	4280.0	4272.1
5°	3174.6	3084.1	3332.0	3231.6	3335.9	3398.8	3410.6	3416.5	3489.3	3412.6	3512.9
7.5°	2261.9	2285.6	2283.6	2350.5	2470.4	2576.6	2639.6	2590.4	2586.5	2576.6	2533.4
10°	1807.6	1766.3	1758.4	1742.6	1780.1	1870.5	1947.2	1886.2	1843.0	1902.0	1884.3
12.5°	1477.1	1420.1	1388.7	1325.7	1327.7	1388.7	1388.7	1388.7	1432.0	1465.4	1490.9
15°	1132.9	1085.7	1085.7	1022.8	1009.1	1011.0	1042.5	1046.4	1115.2	1134.9	1144.7
17.5°	792.6	767.1	796.6	822.2	806.4	810.4	822.2	826.1	835.9	828.1	847.8
20°	609.7	605.8	613.7	658.9	692.3	712.1	698.3	678.5	666.8	639.2	639.2
22.5°	517.3	525.2	538.9	576.3	619.6	631.4	615.7	570.4	535.0	531.0	533.1
25°	460.2	468.2	489.8	513.3	537.0	556.6	540.9	507.5	487.8	470.1	470.1
27.5°	424.9	428.8	440.6	458.3	477.9	493.7	487.8	470.1	448.4	440.6	422.9
30°	397.3	403.2	416.9	420.9	438.6	446.5	436.7	432.7	419.0	409.1	403.2
32.5°	383.5	381.6	391.4	395.3	397.3	403.2	391.4	397.3	395.3	379.6	373.7
35°	289.2	304.9	330.4	352.1	358.0	365.8	363.9	356.0	334.3	316.6	295.0
37.5°	259.6	269.4	283.2	300.9	324.6	334.3	330.4	310.8	285.2	273.4	269.4
40°	240.0	245.9	257.7	269.4	293.1	310.8	297.0	279.3	259.6	249.8	243.9
42.5°	222.3	224.3	230.1	241.9	259.6	287.2	263.6	240.0	232.1	226.2	222.3
45°	202.6	202.6	210.5	216.3	236.0	261.6	238.0	216.3	212.4	208.5	206.6
47.5°	186.8	188.9	192.8	200.6	216.3	234.0	218.3	200.6	190.8	188.9	184.9
50°	167.2	169.1	177.0	184.9	204.6	214.4	204.6	184.9	175.1	169.1	169.1
52°	151.4	157.4	165.2	181.0	194.7	210.5	198.6	177.0	165.2	159.3	155.3
52.5°	149.5	153.4	161.3	179.0	194.7	208.5	196.7	175.1	161.3	157.4	153.4
55°	133.7	139.7	153.4	175.1	192.8	208.5	192.8	173.1	153.4	143.6	139.7
57.5°	127.9	131.8	149.5	177.0	190.8	208.5	192.8	173.1	153.4	135.7	131.8
60°	121.9	129.8	149.5	171.1	188.9	210.5	194.7	171.1	149.5	127.9	127.9
62.5°	116.0	121.9	147.5	167.2	181.0	202.6	186.8	167.2	143.6	121.9	120.0
65°	100.3	110.2	129.8	139.7	155.3	175.1	159.3	145.6	125.9	108.2	106.2
67.5°	76.7	80.6	96.4	108.2	118.0	135.7	127.9	110.2	96.4	82.6	82.6
70°	53.1	57.0	68.8	74.8	84.6	94.4	88.5	74.8	64.9	57.0	55.0
72.5°	37.3	39.3	43.3	47.2	51.1	55.0	53.1	43.3	37.3	35.4	33.4
75°	29.5	33.4	35.4	33.4	31.5	29.5	29.5	25.6	21.6	19.7	19.7
77.5°	29.5	31.5	29.5	25.6	21.6	19.7	17.7	15.7	11.8	9.9	11.8
80°	25.6	25.6	25.6	21.6	19.7	17.7	15.7	13.8	11.8	9.9	9.9
82.5°	27.6	27.6	25.6	21.6	21.6	17.7	17.7	15.7	13.8	9.9	9.9
85°	0.0	0.0	0.0	3.9	9.9	17.7	17.7	15.7	13.8	11.8	11.8
87.5°	0.0	0.0	0.0	0.0	2.0	3.9	7.8	9.9	11.8	11.8	11.8
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°	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4
2.5°	4342.9	4417.7	4559.3	4700.9	4787.5	4889.8	5074.6	5173.0	5300.8	5363.8	5487.7
5°	3499.1	3676.2	3739.1	3900.4	4073.5	4246.6	4521.9	4824.8	5076.6	5249.7	5474.0
7.5°	2553.0	2594.4	2838.2	2946.4	3229.6	3544.4	3920.1	4301.6	4620.2	4903.5	5074.6
10°	1913.8	2065.2	2218.7	2425.2	2653.4	2977.9	3337.9	3758.8	4171.8	4455.0	4671.4
12.5°	1538.1	1658.1	1862.7	2084.9	2366.2	2580.6	2942.5	3359.5	3894.5	4171.8	4457.0
15°	1164.4	1317.9	1549.9	1780.1	2077.1	2303.3	2669.1	3194.2	3882.7	4264.3	4510.2
17.5°	863.5	967.7	1176.2	1433.9	1736.8	2055.5	2549.1	3176.6	4014.4	4468.8	4722.6
20°	660.9	696.3	828.1	1058.2	1386.7	1803.6	2354.4	3253.3	4403.9	4966.5	5224.1
22.5°	535.0	550.8	601.9	761.2	1079.8	1583.4	2261.9	3306.4	4842.5	5562.4	5906.6
25°	466.1	462.2	495.6	564.5	843.8	1376.8	2143.9	3507.0	5379.5	6262.7	6571.5
27.5°	424.9	424.9	440.6	489.8	700.2	1243.1	2069.2	3650.6	5920.4	6878.3	7045.5
30°	403.2	407.2	452.4	468.2	582.2	1083.8	1945.3	3796.1	6437.7	7271.6	7501.8
32.5°	373.7	358.0	348.1	387.5	489.8	940.1	1821.3	3857.1	6856.7	7753.6	7950.3
35°	287.2	279.3	291.1	320.6	420.9	818.2	1683.7	3926.0	7338.5	8312.2	8351.5
37.5°	259.6	257.7	265.5	291.1	354.1	712.1	1585.3	3908.3	7706.4	8774.4	8668.2
40°	240.0	240.0	245.9	267.5	316.6	637.3	1483.1	3892.5	8062.4	9293.7	8982.9
42.5°	224.3	224.3	234.0	247.8	300.9	588.1	1406.3	3870.9	8361.3	9612.3	9167.8
45°	202.6	208.5	224.3	238.0	304.9	554.7	1349.3	3788.3	8463.6	9608.3	9079.3
47.5°	186.8	194.7	210.5	230.1	275.4	544.8	1310.0	3715.5	8428.2	9372.4	8801.9
50°	169.1	179.0	200.6	234.0	234.0	525.2	1268.7	3780.4	8402.6	9189.4	8536.4
52°	157.4	165.2	192.8	228.2	204.6	483.9	1243.1	3906.3	8506.9	9165.8	8418.3
52.5°	155.3	161.3	186.8	224.3	194.7	476.0	1225.4	3935.8	8540.3	9106.8	8499.0
55°	137.7	145.6	171.1	175.1	159.3	391.4	1168.3	4002.7	8375.1	8990.7	8422.3
57.5°	129.8	133.7	151.4	143.6	137.7	295.0	1005.1	3898.4	7438.9	7985.7	7836.2
60°	120.0	123.9	141.6	112.1	116.0	206.6	755.3	3385.1	5973.5	6654.1	6923.5
62.5°	116.0	114.1	133.7	90.5	98.3	149.5	533.1	2751.7	4602.6	5477.9	5944.0
65°	102.3	100.3	96.4	76.7	84.6	116.0	318.6	1795.8	3243.4	4144.3	4400.0
67.5°	78.7	82.6	70.8	61.0	70.8	90.5	177.0	804.5	1701.4	2486.2	2692.7
70°	55.0	59.0	57.0	53.1	63.0	74.8	102.3	275.4	704.2	1306.0	1439.8
72.5°	33.4	41.3	43.3	45.3	55.0	64.9	72.7	88.5	186.8	462.2	574.3
75°	19.7	27.6	33.4	39.3	45.3	55.0	61.0	63.0	64.9	86.5	139.7
77.5°	13.8	19.7	29.5	37.3	45.3	55.0	64.9	68.8	64.9	61.0	64.9
80°	11.8	19.7	27.6	35.4	47.2	57.0	64.9	64.9	63.0	55.0	59.0
82.5°	11.8	19.7	29.5	37.3	45.3	55.0	63.0	64.9	59.0	55.0	57.0
85°	13.8	21.6	31.5	39.3	49.2	45.3	41.3	33.4	31.5	25.6	27.6
87.5°	13.8	19.7	19.7	21.6	23.6	23.6	23.6	21.6	17.7	15.7	15.7
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°	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4
2.5°	5493.6	5650.9	5645.0	5649.0	5625.4	5466.0	5389.3	5194.6	5249.7	5226.1
5°	5704.1	5859.4	5993.2	5977.4	5796.5	5580.1	5259.5	4956.6	4874.0	4752.0
7.5°	5493.6	5867.3	5991.2	5973.5	5706.0	5428.7	4917.2	4614.4	4470.8	4390.1
10°	5159.2	5592.0	5745.3	5776.8	5595.9	5174.9	4704.9	4219.0	4142.3	4002.7
12.5°	4968.4	5283.1	5377.6	5462.1	5399.2	5084.5	4543.6	4077.4	3971.2	3878.7
15°	4813.0	4999.9	5039.2	5135.6	5173.0	5003.8	4628.2	4230.9	3969.3	3959.4
17.5°	4956.6	4879.9	4736.3	4765.8	4883.8	5005.8	4846.5	4533.7	4280.0	4248.6
20°	5194.6	4856.3	4531.8	4604.5	4702.9	5076.6	5176.9	4956.6	4811.1	4730.4
22.5°	5468.0	4897.6	4466.9	4502.2	4689.2	5235.9	5711.9	5590.0	5318.5	5202.5
25°	5973.5	5011.7	4518.0	4541.6	4797.3	5458.2	6195.8	6286.2	6124.9	6101.4
27.5°	6467.2	5306.7	4630.1	4577.0	4852.4	5674.6	6488.9	6974.7	6691.4	6636.4
30°	6719.0	5546.7	4797.3	4706.8	5080.5	5806.3	6665.8	7423.2	7175.3	7149.7
32.5°	7104.5	5765.0	4927.1	4811.1	5208.4	5969.6	6996.3	7912.9	7672.9	7545.1
35°	7265.8	6003.0	5212.4	5076.6	5574.3	6197.8	7165.5	8349.5	8274.8	8150.9
37.5°	7576.5	6258.7	5548.7	5540.8	6016.8	6494.8	7470.4	8943.6	8929.8	8715.4
40°	7602.1	6538.0	6079.8	6327.6	6701.3	7012.1	7737.8	9108.8	9333.0	9187.4
42.5°	7641.5	7027.7	6998.3	7202.8	7523.5	7456.6	7747.6	9148.1	9490.4	9403.8
45°	7659.1	7517.5	7932.6	8310.2	8444.0	8038.7	7655.2	9073.3	9573.0	9356.6
47.5°	7517.5	7938.4	8687.9	9417.6	9456.9	8396.7	7615.8	8996.7	9622.1	9478.5
50°	7537.2	8202.0	9340.9	9993.9	9850.3	8713.4	7554.9	8949.5	9596.5	9500.2
52°	7490.0	8208.0	9433.3	9982.1	9881.8	8538.4	7450.6	8768.5	9573.0	9641.8
52.5°	7543.1	8172.5	9337.0	9989.9	9860.2	8624.9	7436.9	8868.8	9586.7	9447.1
55°	7360.2	7751.6	8772.4	9049.8	9030.1	7828.3	7014.0	8536.4	9226.8	9228.8
57.5°	6652.1	6719.0	6880.2	6874.3	6783.9	6154.5	5999.1	7850.0	8225.6	8021.1
60°	5861.4	4919.3	4484.6	4307.5	4207.2	4105.0	5306.7	7181.2	7216.6	7130.1
62.5°	5064.8	3410.6	2832.3	2783.2	2806.8	3180.5	5129.7	6915.7	6703.3	6516.4
65°	4087.3	2486.2	2057.4	1992.5	2222.6	2625.8	4152.2	5302.8	4976.3	4820.9
67.5°	2566.8	1813.5	1390.6	1268.7	1546.0	1807.6	2728.1	3332.0	2966.1	2751.7
70°	1522.4	1013.0	629.4	564.5	635.3	963.8	1528.3	1662.1	1374.9	1264.7
72.5°	599.9	371.8	175.1	149.5	155.3	338.3	562.5	548.8	415.0	369.8
75°	161.3	112.1	61.0	49.2	41.3	63.0	90.5	59.0	21.6	27.6
77.5°	74.8	66.9	53.1	41.3	31.5	23.6	11.8	3.9	3.9	2.0
80°	64.9	57.0	49.2	41.3	31.5	19.7	9.9	2.0	2.0	2.0
82.5°	61.0	53.1	45.3	37.3	29.5	19.7	9.9	2.0	0.0	0.0
85°	25.6	33.4	37.3	35.4	31.5	19.7	9.9	2.0	0.0	0.0
87.5°	13.8	11.8	9.9	7.8	5.9	3.9	3.9	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

(END OF REPORT)