

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: P648383

Luminaire Tested: **GALN-SA4B-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648383  
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-SA4B-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 800mA 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: 9743.7 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

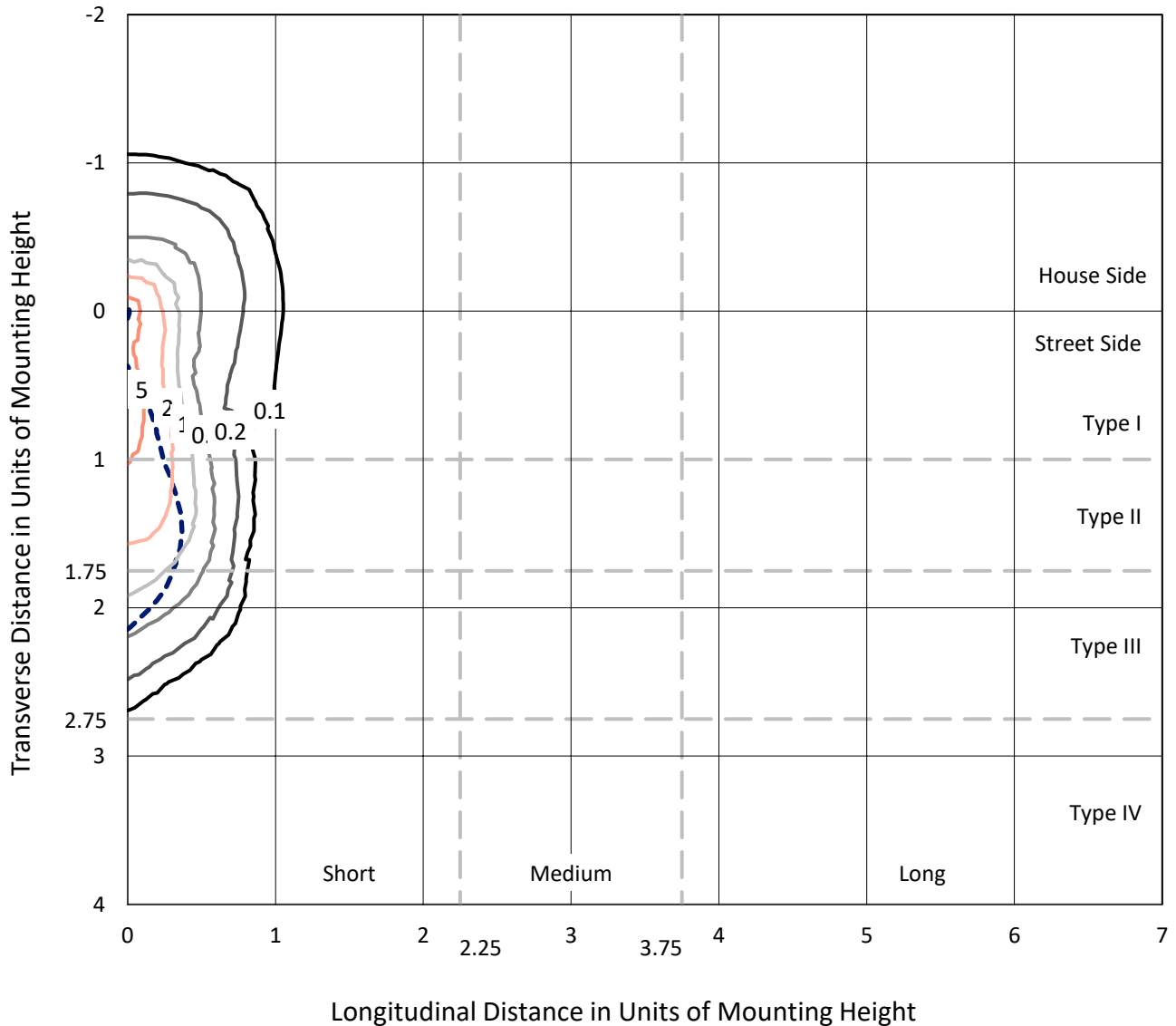
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

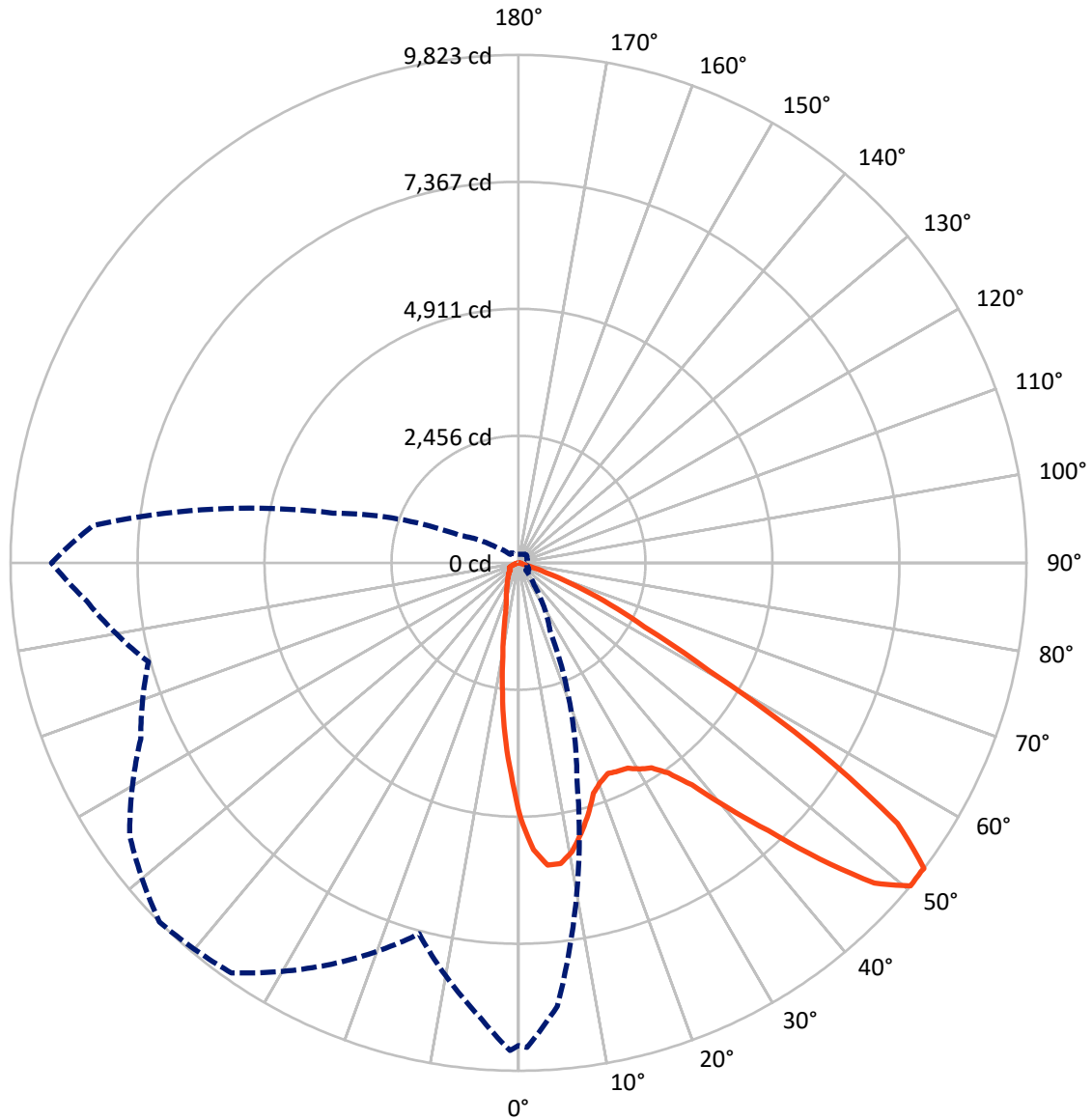
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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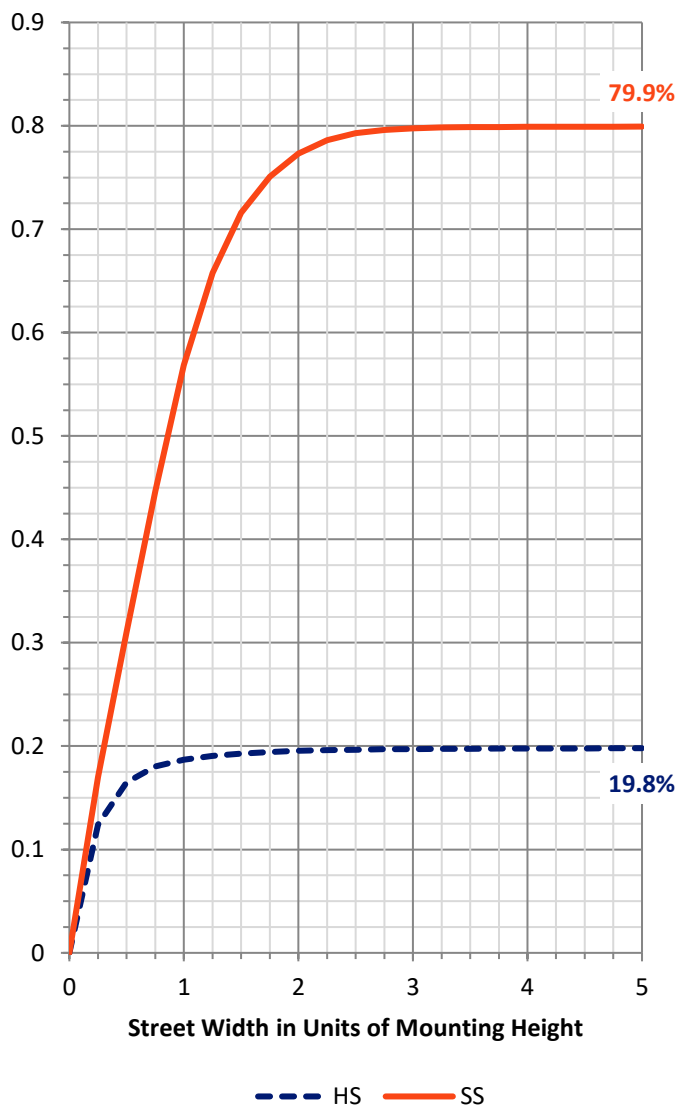
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1951.7	0.0	1951.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	7792.0	0.0	7792.0
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	9743.7	0.0	9743.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.2	3.7
10°-20°	715.8	7.3
20°-30°	1075.4	11.0
30°-40°	1614.1	16.6
40°-50°	2268.5	23.3
50°-60°	2447.0	25.1
60°-70°	1136.1	11.7
70°-80°	106.9	1.1
80°-90°	19.7	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°	9743.7	100.0
0°-180°	9743.7	100.0

**Coefficient of Utilization**

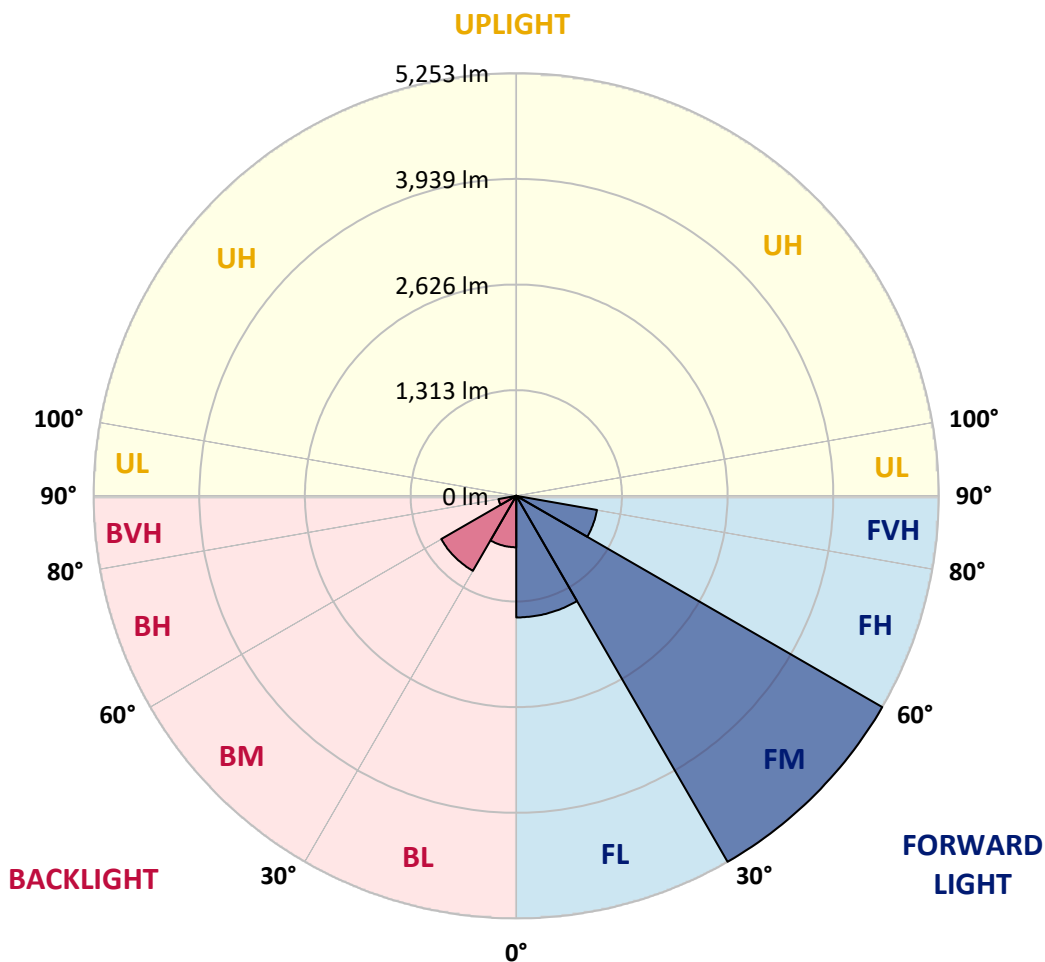


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.6	15.5			
FM (30°-60°)	5252.6	53.9			
FH (60°-80°)	1018.9	10.5			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	639.7	6.6	B2/1000		
BM (30°-60°)	1077.0	11.1	B2/2500		
BH (60°-80°)	224.1	2.3	B1/500		G1/500
BVH (80°-90°)	10.8	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°	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3
2.5°	5136.5	5057.2	4956.7	4873.6	4749.8	4500.5	4432.8	4351.6	4283.9	4193.1	4065.5
5°	4670.6	4645.5	4599.1	4285.9	4059.7	3758.2	3510.7	3406.3	3269.0	3156.9	3075.7
7.5°	4314.9	4214.3	4067.5	3752.4	3390.9	3068.0	2793.5	2633.0	2451.3	2389.4	2279.2
10°	3934.0	3957.3	3740.7	3298.1	2861.2	2600.2	2430.0	2275.4	2111.0	2002.8	1846.2
12.5°	3812.3	3736.9	3570.6	3023.6	2650.5	2406.9	2200.0	2008.6	1834.6	1660.6	1509.9
15°	3891.5	3775.5	3543.5	2965.5	2488.1	2184.5	1925.5	1666.4	1505.9	1283.7	1127.1
17.5°	4175.7	4083.0	3771.7	3027.4	2404.9	1971.8	1587.1	1320.4	1074.8	873.8	794.5
20°	4649.4	4517.9	4127.3	3106.6	2281.2	1714.8	1287.5	958.9	726.9	641.8	597.4
22.5°	5113.3	5041.8	4548.8	3259.4	2170.9	1486.6	966.6	645.7	543.2	527.7	498.8
25°	5996.8	5782.2	5192.5	3535.8	2085.9	1272.1	728.8	520.1	460.1	448.5	452.3
27.5°	6522.6	6342.8	5788.0	3719.5	1991.2	1107.7	616.7	477.5	436.9	411.8	402.1
30°	7027.2	6818.4	6083.8	3827.8	1788.2	933.7	547.1	458.1	448.5	411.8	400.2
32.5°	7415.8	7210.8	6511.0	3990.1	1705.1	821.6	450.5	357.7	332.5	328.6	363.5
35°	8011.2	7792.7	6876.4	4079.0	1641.3	763.6	390.5	319.0	289.9	278.4	280.3
37.5°	8566.0	8417.2	7214.7	4113.9	1573.6	746.2	349.9	286.1	261.0	253.2	251.3
40°	9029.9	8697.5	7535.6	4150.6	1544.6	713.3	324.8	261.0	243.6	232.0	232.0
42.5°	9242.6	8904.4	7895.2	4129.3	1536.9	661.2	324.8	239.8	226.2	214.6	212.7
45°	9196.3	9059.0	8055.7	4119.7	1536.9	608.9	295.8	233.9	214.6	199.1	195.3
47.5°	9316.1	9136.3	8256.7	4160.2	1505.9	572.2	249.4	245.5	203.0	183.7	179.8
50°	9337.4	9372.1	8606.6	4370.9	1438.3	525.9	195.3	241.6	195.3	166.2	162.4
52°	9476.6	9260.0	8712.9	4483.1	1366.8	491.0	164.4	206.9	187.5	154.6	150.8
52.5°	9285.1	9426.3	8738.0	4523.7	1374.5	467.8	158.6	203.0	183.7	154.6	145.0
55°	9070.6	9205.9	8635.6	4610.7	1260.5	367.3	123.7	146.9	166.2	135.3	129.5
57.5°	7883.6	8020.8	7504.7	4222.1	1026.5	259.0	102.5	110.2	146.9	125.7	119.9
60°	7007.8	6909.3	6298.4	3522.3	728.8	145.0	81.2	85.0	160.4	116.0	114.1
62.5°	6404.7	6194.0	5264.1	2720.0	444.7	96.6	63.8	65.7	123.7	108.3	108.3
65°	4738.2	4502.4	3497.2	1645.2	218.5	67.7	48.3	52.2	77.4	92.8	92.8
67.5°	2704.6	2613.7	1689.6	742.4	90.8	42.5	36.7	40.6	59.9	75.4	71.6
70°	1243.0	1115.5	649.6	156.6	42.5	29.0	29.0	32.9	48.3	56.1	52.2
72.5°	363.5	344.1	158.6	25.1	17.4	17.4	19.3	25.1	36.7	42.5	38.7
75°	27.1	17.4	11.6	7.8	7.8	11.6	15.5	25.1	36.7	40.6	32.9
77.5°	2.0	3.8	2.0	2.0	5.8	11.6	17.4	30.9	48.3	50.3	36.7
80°	2.0	2.0	0.0	2.0	5.8	11.6	19.3	34.8	54.1	58.0	30.9
82.5°	0.0	0.0	0.0	2.0	7.8	15.5	23.2	36.7	50.3	61.9	32.9
85°	0.0	0.0	0.0	2.0	11.6	21.3	27.1	9.6	5.8	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°	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3
2.5°	4156.4	4106.1	4086.8	4104.2	4098.4	4092.6	4198.9	4175.7	4171.8	4206.7	4198.9
5°	3120.2	3031.2	3274.8	3176.2	3278.7	3340.6	3352.2	3358.0	3429.5	3354.1	3452.7
7.5°	2223.2	2246.3	2244.5	2310.2	2428.1	2532.5	2594.4	2546.0	2542.2	2532.5	2489.9
10°	1776.6	1736.0	1728.3	1712.8	1749.5	1838.5	1913.9	1853.9	1811.4	1869.4	1852.0
12.5°	1451.8	1395.8	1364.8	1303.0	1304.9	1364.8	1364.8	1364.8	1407.4	1440.3	1465.4
15°	1113.5	1067.2	1067.2	1005.3	991.7	993.6	1024.6	1028.5	1096.1	1115.5	1125.1
17.5°	779.1	754.0	782.9	808.1	792.6	796.5	808.1	812.0	821.6	813.9	833.2
20°	599.3	595.4	603.1	647.6	680.5	699.8	686.3	667.0	655.4	628.3	628.3
22.5°	508.4	516.2	529.7	566.4	608.9	620.5	605.1	560.6	525.9	521.9	523.9
25°	452.3	460.1	481.4	504.6	527.7	547.1	531.7	498.8	479.4	462.0	462.0
27.5°	417.6	421.4	433.0	450.5	469.8	485.2	479.4	462.0	440.8	433.0	415.6
30°	390.5	396.3	409.8	413.7	431.1	438.9	429.2	425.3	411.8	402.1	396.3
32.5°	376.9	375.1	384.7	388.6	390.5	396.3	384.7	390.5	388.6	373.1	367.3
35°	284.2	299.7	324.8	346.0	351.9	359.6	357.7	349.9	328.6	311.2	289.9
37.5°	255.2	264.8	278.4	295.8	319.0	328.6	324.8	305.4	280.3	268.7	264.8
40°	235.8	241.6	253.2	264.8	288.1	305.4	291.9	274.5	255.2	245.5	239.8
42.5°	218.5	220.4	226.2	237.8	255.2	282.3	259.0	235.8	228.1	222.3	218.5
45°	199.1	199.1	206.9	212.7	232.0	257.1	233.9	212.7	208.7	204.9	203.0
47.5°	183.7	185.6	189.5	197.2	212.7	230.0	214.6	197.2	187.5	185.6	181.7
50°	164.4	166.2	174.0	181.7	201.1	210.7	201.1	181.7	172.0	166.2	166.2
52°	148.8	154.6	162.4	177.8	191.4	206.9	195.3	174.0	162.4	156.6	152.7
52.5°	146.9	150.8	158.6	175.9	191.4	204.9	193.3	172.0	158.6	154.6	150.8
55°	131.5	137.3	150.8	172.0	189.5	204.9	189.5	170.1	150.8	141.1	137.3
57.5°	125.7	129.5	146.9	174.0	187.5	204.9	189.5	170.1	150.8	133.4	129.5
60°	119.9	127.6	146.9	168.2	185.6	206.9	191.4	168.2	146.9	125.7	125.7
62.5°	114.1	119.9	145.0	164.4	177.8	199.1	183.7	164.4	141.1	119.9	117.9
65°	98.6	108.3	127.6	137.3	152.7	172.0	156.6	143.1	123.7	106.3	104.4
67.5°	75.4	79.2	94.7	106.3	116.0	133.4	125.7	108.3	94.7	81.2	81.2
70°	52.2	56.1	67.7	73.4	83.2	92.8	87.0	73.4	63.8	56.1	54.1
72.5°	36.7	38.7	42.5	46.4	50.3	54.1	52.2	42.5	36.7	34.8	32.9
75°	29.0	32.9	34.8	32.9	30.9	29.0	29.0	25.1	21.3	19.3	19.3
77.5°	29.0	30.9	29.0	25.1	21.3	19.3	17.4	15.5	11.6	9.6	11.6
80°	25.1	25.1	25.1	21.3	19.3	17.4	15.5	13.5	11.6	9.6	9.6
82.5°	27.1	27.1	25.1	21.3	21.3	17.4	17.4	15.5	13.5	9.6	9.6
85°	0.0	0.0	0.0	3.8	9.6	17.4	17.4	15.5	13.5	11.6	11.6
87.5°	0.0	0.0	0.0	0.0	2.0	3.8	7.8	9.6	11.6	11.6	11.6
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3
2.5°	4268.5	4342.0	4481.2	4620.3	4705.4	4805.9	4987.6	5084.3	5210.0	5271.9	5393.6
5°	3439.2	3613.2	3675.0	3833.6	4003.6	4173.8	4444.5	4742.2	4989.6	5159.7	5380.1
7.5°	2509.3	2549.9	2789.6	2895.9	3174.3	3483.6	3852.8	4227.9	4541.1	4819.4	4987.6
10°	1881.0	2029.8	2180.7	2383.6	2607.9	2926.9	3280.6	3694.4	4100.3	4378.7	4591.4
12.5°	1511.7	1629.7	1830.7	2049.2	2325.7	2536.4	2892.1	3301.9	3827.8	4100.3	4380.7
15°	1144.4	1295.2	1523.3	1749.5	2041.4	2263.8	2623.4	3139.5	3816.1	4191.2	4432.8
17.5°	848.7	951.1	1156.0	1409.3	1707.0	2020.2	2505.4	3122.1	3945.7	4392.2	4641.6
20°	649.6	684.3	813.9	1040.1	1362.9	1772.7	2314.1	3197.5	4328.4	4881.3	5134.6
22.5°	525.9	541.3	591.6	748.2	1061.4	1556.2	2223.2	3249.7	4759.5	5467.1	5805.4
25°	458.1	454.3	487.2	554.8	829.4	1353.3	2107.2	3446.9	5287.3	6155.3	6458.8
27.5°	417.6	417.6	433.0	481.4	688.3	1221.8	2033.8	3588.0	5818.9	6760.4	6924.7
30°	396.3	400.2	444.7	460.1	572.2	1065.2	1911.9	3731.1	6327.3	7147.1	7373.2
32.5°	367.3	351.9	342.2	380.9	481.4	924.1	1790.2	3791.0	6739.1	7620.7	7814.0
35°	282.3	274.5	286.1	315.1	413.7	804.2	1654.8	3858.7	7212.8	8169.7	8208.3
37.5°	255.2	253.2	261.0	286.1	348.0	699.8	1558.2	3841.2	7574.3	8624.0	8519.6
40°	235.8	235.8	241.6	262.9	311.2	626.3	1457.6	3825.8	7924.2	9134.4	8829.0
42.5°	220.4	220.4	230.0	243.6	295.8	578.0	1382.2	3804.5	8218.1	9447.5	9010.6
45°	199.1	204.9	220.4	233.9	299.7	545.1	1326.2	3723.3	8318.6	9443.7	8923.6
47.5°	183.7	191.4	206.9	226.2	270.7	535.5	1287.5	3651.8	8283.7	9211.7	8651.1
50°	166.2	175.9	197.2	230.0	230.0	516.2	1246.9	3715.6	8258.6	9031.9	8390.1
52°	154.6	162.4	189.5	224.3	201.1	475.6	1221.8	3839.4	8361.1	9008.7	8274.1
52.5°	152.7	158.6	183.7	220.4	191.4	467.8	1204.4	3868.3	8393.9	8950.7	8353.4
55°	135.3	143.1	168.2	172.0	156.6	384.7	1148.3	3934.0	8231.6	8836.6	8278.0
57.5°	127.6	131.5	148.8	141.1	135.3	289.9	987.8	3831.6	7311.3	7848.8	7701.9
60°	117.9	121.8	139.2	110.2	114.1	203.0	742.4	3327.0	5871.1	6540.0	6804.9
62.5°	114.1	112.1	131.5	88.9	96.6	146.9	523.9	2704.6	4523.7	5384.0	5842.1
65°	100.5	98.6	94.7	75.4	83.2	114.1	313.2	1765.0	3187.8	4073.2	4324.6
67.5°	77.4	81.2	69.6	59.9	69.6	88.9	174.0	790.7	1672.3	2443.6	2646.5
70°	54.1	58.0	56.1	52.2	61.9	73.4	100.5	270.7	692.1	1283.7	1415.1
72.5°	32.9	40.6	42.5	44.5	54.1	63.8	71.6	87.0	183.7	454.3	564.5
75°	19.3	27.1	32.9	38.7	44.5	54.1	59.9	61.9	63.8	85.0	137.3
77.5°	13.5	19.3	29.0	36.7	44.5	54.1	63.8	67.7	63.8	59.9	63.8
80°	11.6	19.3	27.1	34.8	46.4	56.1	63.8	63.8	61.9	54.1	58.0
82.5°	11.6	19.3	29.0	36.7	44.5	54.1	61.9	63.8	58.0	54.1	56.1
85°	13.5	21.3	30.9	38.7	48.3	44.5	40.6	32.9	30.9	25.1	27.1
87.5°	13.5	19.3	19.3	21.3	23.2	23.2	23.2	21.3	17.4	15.5	15.5
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°	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3
2.5°	5399.4	5554.1	5548.3	5552.2	5528.9	5372.4	5297.0	5105.6	5159.7	5136.5
5°	5606.3	5759.0	5890.4	5875.0	5697.1	5484.5	5169.4	4871.7	4790.5	4670.6
7.5°	5399.4	5766.7	5888.6	5871.1	5608.2	5335.6	4833.0	4535.3	4394.2	4314.9
10°	5070.8	5496.1	5646.8	5677.8	5499.9	5086.2	4624.2	4146.7	4071.3	3934.0
12.5°	4883.3	5192.5	5285.4	5368.5	5306.6	4997.3	4465.7	4007.6	3903.1	3812.3
15°	4730.6	4914.2	4952.9	5047.6	5084.3	4918.0	4548.8	4158.3	3901.2	3891.5
17.5°	4871.7	4796.3	4655.2	4684.1	4800.1	4920.0	4763.4	4456.1	4206.7	4175.7
20°	5105.6	4773.1	4454.1	4525.6	4622.3	4989.6	5088.2	4871.7	4728.6	4649.4
22.5°	5374.3	4813.6	4390.3	4425.1	4608.7	5146.2	5614.0	5494.2	5227.4	5113.3
25°	5871.1	4925.8	4440.5	4463.7	4715.1	5364.6	6089.5	6178.5	6020.0	5996.8
27.5°	6356.4	5215.8	4550.7	4498.6	4769.2	5577.3	6377.6	6855.2	6576.7	6522.6
30°	6603.8	5451.6	4715.1	4626.1	4993.4	5706.8	6551.6	7295.9	7052.3	7027.2
32.5°	6982.7	5666.2	4842.7	4728.6	5119.1	5867.3	6876.4	7777.2	7541.4	7415.8
35°	7141.3	5900.1	5123.0	4989.6	5478.7	6091.5	7042.6	8206.5	8132.9	8011.2
37.5°	7446.7	6151.4	5453.6	5445.8	5913.7	6383.4	7342.3	8790.3	8776.7	8566.0
40°	7471.9	6425.9	5975.5	6219.1	6586.4	6891.9	7605.2	8952.7	9173.0	9029.9
42.5°	7510.5	6907.3	6878.3	7079.4	7394.5	7328.7	7614.9	8991.3	9327.7	9242.6
45°	7527.9	7388.7	7796.6	8167.8	8299.3	7901.0	7524.0	8917.8	9408.9	9196.3
47.5°	7388.7	7802.4	8538.9	9256.2	9294.8	8252.8	7485.3	8842.4	9457.2	9316.1
50°	7408.0	8061.5	9180.8	9822.6	9681.5	8564.1	7425.4	8796.1	9432.1	9337.4
52°	7361.6	8067.2	9271.7	9811.0	9712.4	8392.0	7322.9	8618.2	9408.9	9476.6
52.5°	7413.8	8032.5	9176.9	9818.7	9691.1	8477.1	7309.5	8716.8	9422.4	9285.1
55°	7234.1	7618.7	8622.1	8894.6	8875.3	7694.1	6893.8	8390.1	9068.6	9070.6
57.5°	6538.0	6603.8	6762.3	6756.5	6667.6	6049.0	5896.2	7715.4	8084.6	7883.6
60°	5760.9	4834.9	4407.7	4233.7	4135.1	4034.6	5215.8	7058.1	7092.9	7007.8
62.5°	4978.0	3352.2	2783.8	2735.5	2758.7	3126.0	5041.8	6797.1	6588.3	6404.7
65°	4017.2	2443.6	2022.1	1958.4	2184.5	2580.8	4081.0	5211.9	4891.0	4738.2
67.5°	2522.8	1782.4	1366.8	1246.9	1519.5	1776.6	2681.4	3274.8	2915.3	2704.6
70°	1496.3	995.6	618.6	554.8	624.4	947.3	1502.1	1633.6	1351.3	1243.0
72.5°	589.6	365.3	172.0	146.9	152.7	332.5	552.9	539.3	407.9	363.5
75°	158.6	110.2	59.9	48.3	40.6	61.9	88.9	58.0	21.3	27.1
77.5°	73.4	65.7	52.2	40.6	30.9	23.2	11.6	3.8	3.8	2.0
80°	63.8	56.1	48.3	40.6	30.9	19.3	9.6	2.0	2.0	2.0
82.5°	59.9	52.2	44.5	36.7	29.0	19.3	9.6	2.0	0.0	0.0
85°	25.1	32.9	36.7	34.8	30.9	19.3	9.6	2.0	0.0	0.0
87.5°	13.5	11.6	9.6	7.8	5.8	3.8	3.8	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)