

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: P651023

Luminaire Tested: **GALN-SA7C-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651023  
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-SA7C-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA 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: 22766.7 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

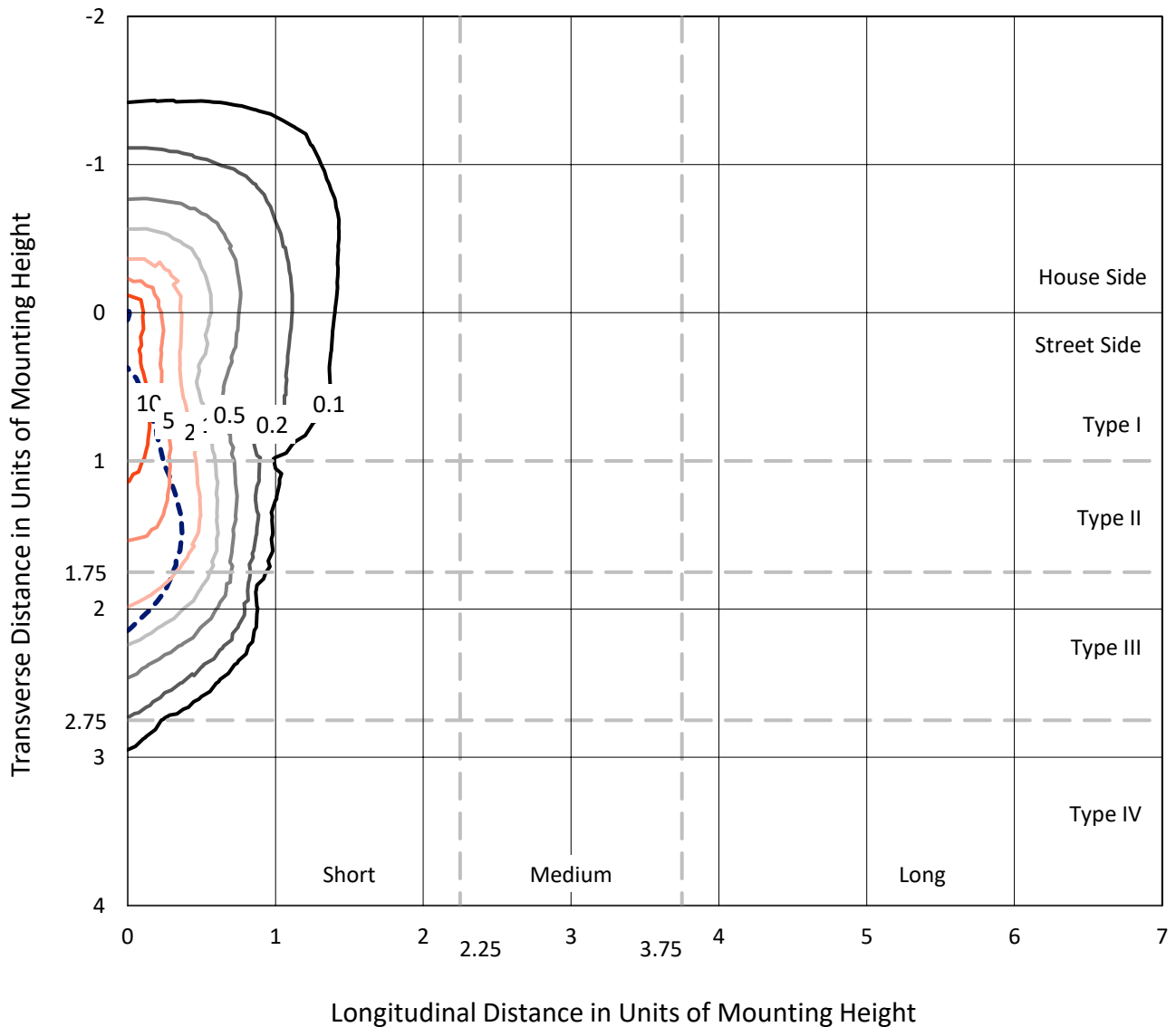
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

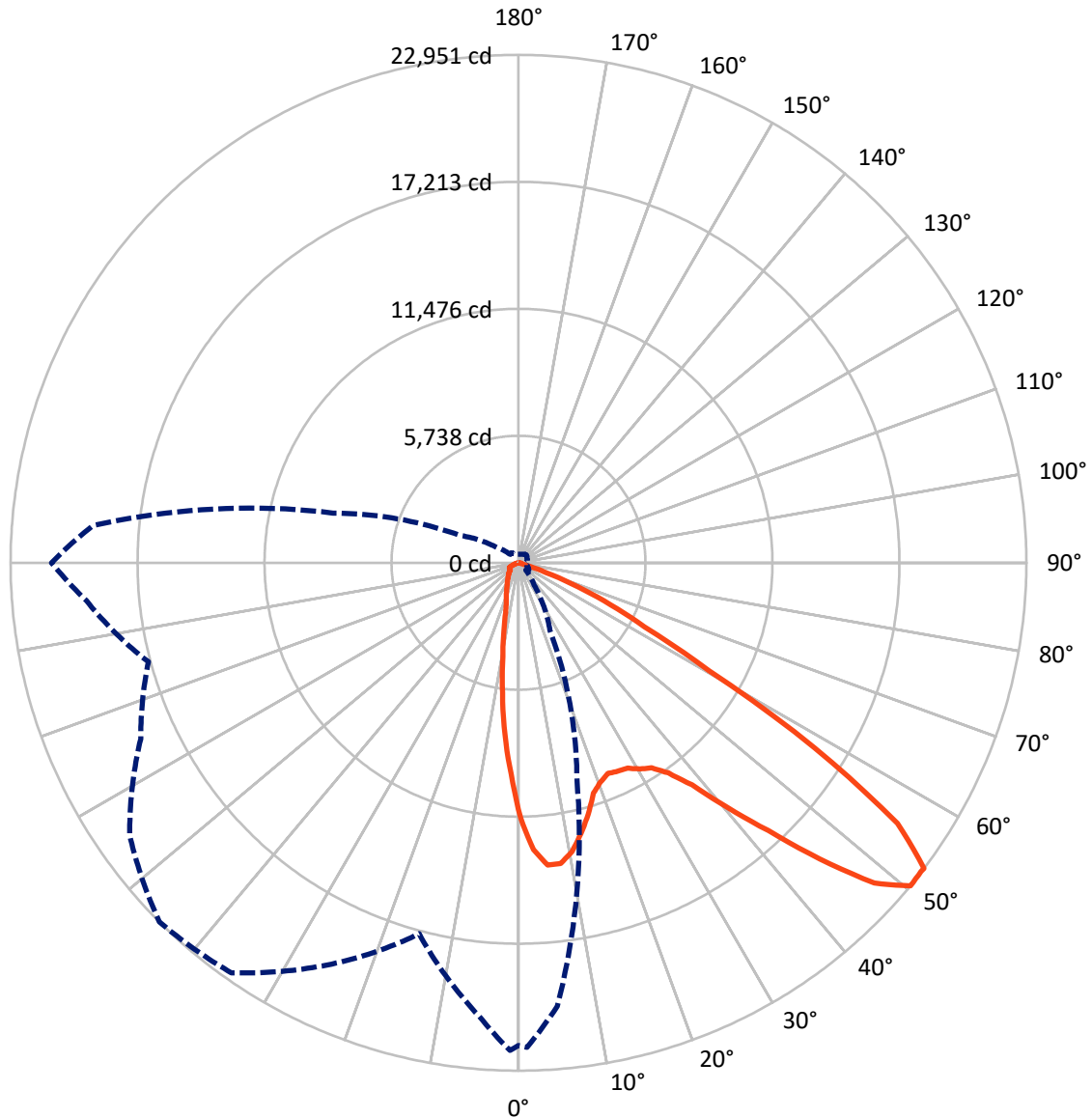
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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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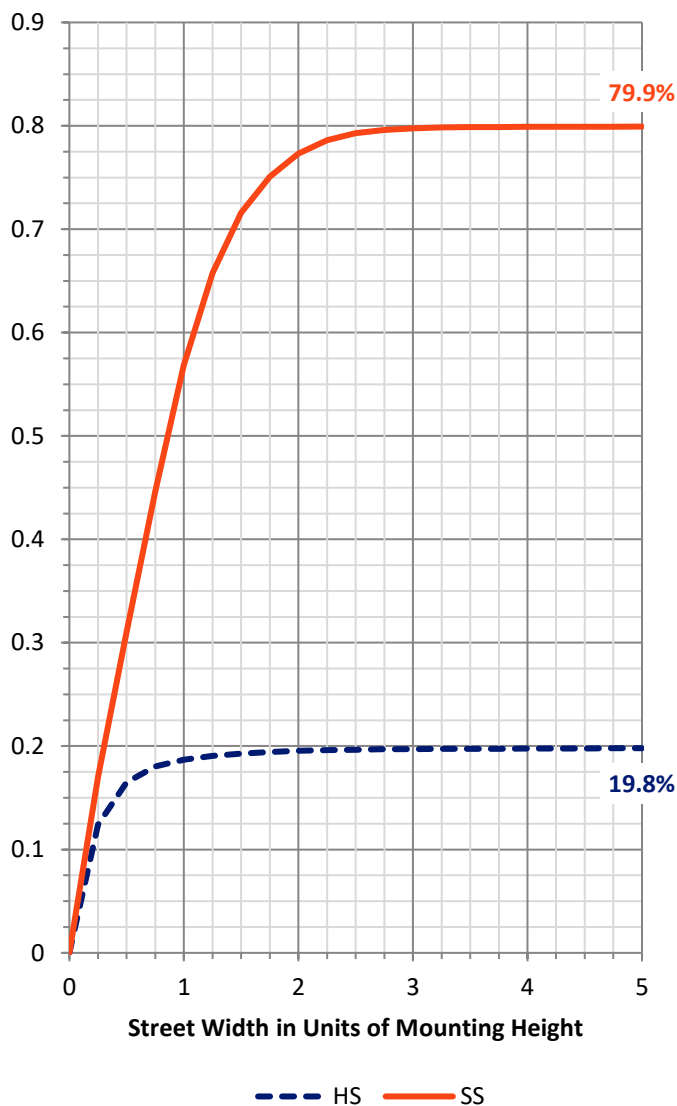
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4560.2	0.0	4560.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	18206.5	0.0	18206.5
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	22766.7	0.0	22766.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	841.5	3.7
10°-20°	1672.5	7.3
20°-30°	2512.7	11.0
30°-40°	3771.5	16.6
40°-50°	5300.5	23.3
50°-60°	5717.5	25.1
60°-70°	2654.6	11.7
70°-80°	249.8	1.1
80°-90°	46.0	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°	22766.7	100.0
0°-180°	22766.7	100.0

**Coefficient of Utilization**

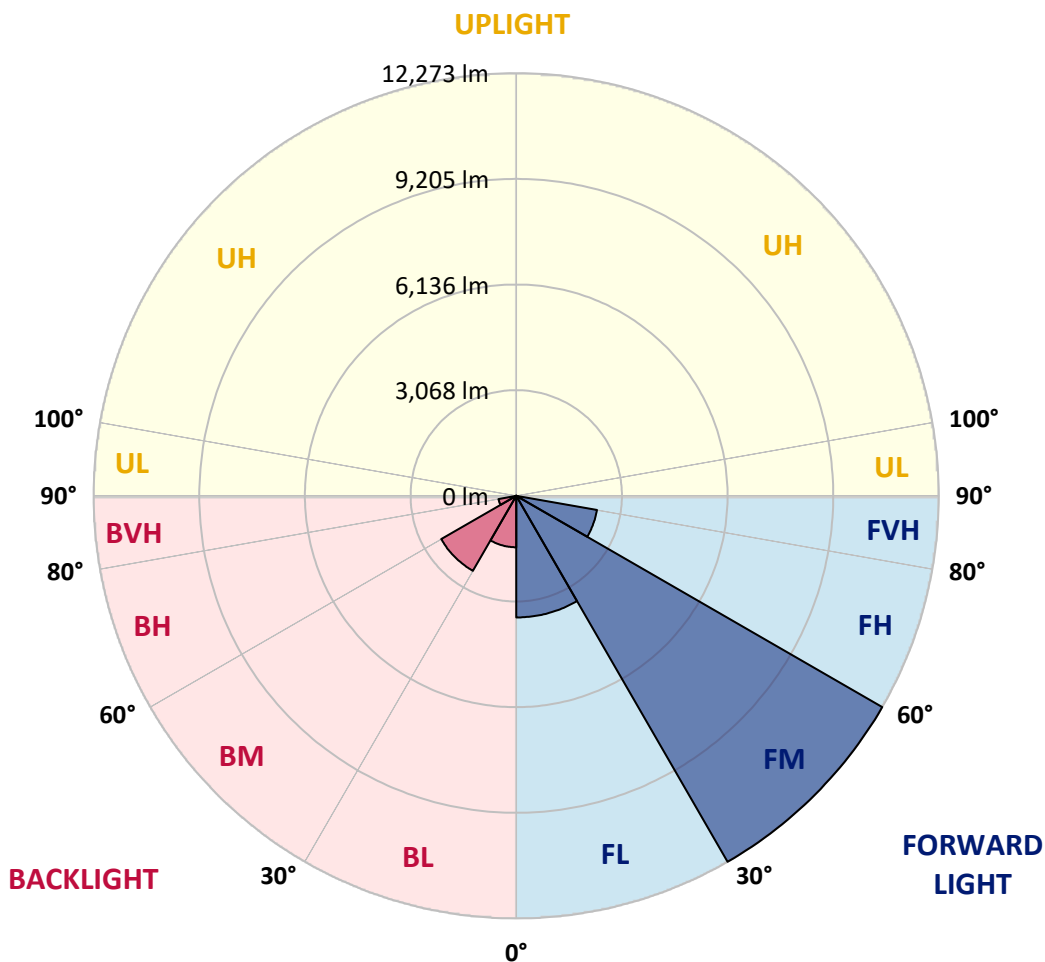


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3532.1	15.5			
FM	(30°-60°)	12273.0	53.9			
FH	(60°-80°)	2380.8	10.5			G2/5000
FVH	(80°-90°)	20.7	0.1			G1/100
BL	(0°-30°)	1494.7	6.6	B3/2500		
BM	(30°-60°)	2516.5	11.1	B3/5000		
BH	(60°-80°)	523.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	25.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6
2.5°	12001.8	11816.6	11581.7	11387.5	11098.4	10515.7	10357.6	10167.9	10009.8	9797.5	9499.3
5°	10913.2	10854.5	10746.0	10014.3	9485.8	8781.1	8202.9	7959.1	7638.3	7376.3	7186.6
7.5°	10082.1	9847.2	9503.9	8767.6	7922.9	7168.6	6527.2	6152.3	5727.6	5583.1	5325.6
10°	9192.2	9246.4	8740.5	7706.1	6685.3	6075.5	5677.9	5316.5	4932.6	4679.7	4313.8
12.5°	8907.6	8731.4	8343.0	7064.7	6192.9	5623.8	5140.4	4693.2	4286.7	3880.1	3527.8
15°	9092.8	8821.8	8279.7	6929.2	5813.4	5104.3	4499.0	3893.7	3518.7	2999.3	2633.4
17.5°	9756.9	9540.1	8812.8	7073.7	5619.2	4607.4	3708.5	3085.1	2511.5	2041.7	1856.5
20°	10863.5	10556.3	9643.9	7258.9	5330.1	4006.6	3008.3	2240.4	1698.4	1499.7	1395.8
22.5°	11947.6	11780.5	10628.6	7615.8	5072.7	3473.6	2258.5	1508.7	1269.3	1233.2	1165.4
25°	14011.9	13510.5	12132.8	8261.7	4873.9	2972.3	1702.9	1215.1	1075.1	1048.0	1057.0
27.5°	15240.5	14820.4	13524.0	8690.8	4652.6	2588.3	1441.0	1115.7	1020.9	962.1	939.6
30°	16419.5	15931.7	14215.2	8943.8	4178.3	2181.7	1278.3	1070.5	1048.0	962.1	935.0
32.5°	17327.5	16848.6	15213.4	9323.2	3984.1	1919.8	1052.5	835.6	776.9	767.9	849.2
35°	18718.6	18208.2	16067.1	9531.0	3835.0	1784.3	912.5	745.3	677.6	650.4	655.0
37.5°	20015.0	19667.3	16857.7	9612.3	3676.9	1743.6	817.6	668.5	609.8	591.7	587.2
40°	21099.2	20322.3	17607.5	9698.1	3609.2	1666.8	758.8	609.8	569.2	542.0	542.0
42.5°	21596.0	20805.6	18447.7	9648.5	3591.1	1544.8	758.8	560.1	528.5	501.4	496.9
45°	21487.6	21167.0	18822.6	9625.8	3591.1	1422.9	691.1	546.6	501.4	465.2	456.2
47.5°	21767.7	21347.6	19292.4	9720.7	3518.7	1337.0	582.7	573.6	474.3	429.1	420.1
50°	21817.4	21898.7	20109.9	10213.0	3360.7	1228.6	456.2	564.6	456.2	388.5	379.5
52°	22142.6	21636.7	20358.3	10475.1	3193.5	1147.3	383.9	483.3	438.2	361.4	352.3
52.5°	21695.4	22025.2	20417.1	10569.9	3211.6	1093.1	370.4	474.3	429.1	361.4	338.8
55°	21194.0	21510.3	20177.7	10773.2	2945.1	858.2	289.1	343.3	388.5	316.2	302.7
57.5°	18420.6	18741.3	17535.2	9865.3	2398.5	605.3	239.4	257.4	343.3	293.6	280.1
60°	16374.4	16143.9	14716.6	8230.1	1702.9	338.8	189.7	198.7	374.9	271.1	266.5
62.5°	14965.0	14472.7	12300.0	6355.5	1038.9	225.9	149.0	153.6	289.1	253.0	253.0
65°	11071.3	10520.2	8171.3	3844.0	510.4	158.1	112.9	121.9	180.6	216.8	216.8
67.5°	6319.4	6107.1	3947.9	1734.6	212.3	99.4	85.8	94.9	140.0	176.2	167.1
70°	2904.5	2606.3	1517.8	365.9	99.4	67.8	67.8	76.8	112.9	131.0	121.9
72.5°	849.2	804.0	370.4	58.7	40.6	40.6	45.2	58.7	85.8	99.4	90.3
75°	63.2	40.6	27.1	18.1	18.1	27.1	36.2	58.7	85.8	94.9	76.8
77.5°	4.5	9.0	4.5	4.5	13.5	27.1	40.6	72.2	112.9	117.4	85.8
80°	4.5	4.5	0.0	4.5	13.5	27.1	45.2	81.3	126.5	135.5	72.2
82.5°	0.0	0.0	0.0	4.5	18.1	36.2	54.2	85.8	117.4	144.6	76.8
85°	0.0	0.0	0.0	4.5	27.1	49.7	63.2	22.6	13.5	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°	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6
2.5°	9711.7	9594.2	9549.1	9589.7	9576.1	9562.6	9811.0	9756.9	9747.8	9829.1	9811.0
5°	7290.5	7082.7	7651.9	7421.5	7660.9	7805.5	7832.6	7846.1	8013.2	7837.1	8067.5
7.5°	5194.6	5248.8	5244.3	5397.9	5673.4	5917.4	6061.9	5949.0	5939.9	5917.4	5818.0
10°	4151.2	4056.3	4038.2	4002.2	4087.9	4295.7	4471.8	4331.8	4232.5	4368.0	4327.4
12.5°	3392.3	3261.3	3189.1	3044.5	3049.0	3189.1	3189.1	3189.1	3288.4	3365.2	3424.0
15°	2601.8	2493.4	2493.4	2348.8	2317.2	2321.7	2394.1	2403.1	2561.2	2606.3	2629.0
17.5°	1820.3	1761.6	1829.4	1888.1	1852.0	1861.0	1888.1	1897.1	1919.8	1901.7	1946.8
20°	1400.3	1391.3	1409.3	1513.2	1590.0	1635.2	1603.5	1558.4	1531.3	1468.0	1468.0
22.5°	1188.0	1206.1	1237.7	1323.5	1422.9	1450.0	1413.8	1309.9	1228.6	1219.6	1224.2
25°	1057.0	1075.1	1124.8	1178.9	1233.2	1278.3	1242.2	1165.4	1120.2	1079.6	1079.6
27.5°	975.6	984.7	1011.8	1052.5	1097.7	1133.8	1120.2	1079.6	1029.9	1011.8	971.2
30°	912.5	926.0	957.6	966.6	1007.3	1025.3	1002.8	993.7	962.1	939.6	926.0
32.5°	880.9	876.3	898.9	907.9	912.5	926.0	898.9	912.5	907.9	871.8	858.2
35°	664.0	700.1	758.8	808.5	822.1	840.2	835.6	817.6	767.9	727.2	677.6
37.5°	596.3	618.8	650.4	691.1	745.3	767.9	758.8	713.7	655.0	627.9	618.8
40°	551.1	564.6	591.7	618.8	673.1	713.7	682.1	641.4	596.3	573.6	560.1
42.5°	510.4	514.9	528.5	555.6	596.3	659.5	605.3	551.1	533.0	519.5	510.4
45°	465.2	465.2	483.3	496.9	542.0	600.7	546.6	496.9	487.9	478.8	474.3
47.5°	429.1	433.6	442.7	460.7	496.9	537.6	501.4	460.7	438.2	433.6	424.6
50°	383.9	388.5	406.5	424.6	469.8	492.3	469.8	424.6	402.0	388.5	388.5
52°	347.8	361.4	379.5	415.5	447.2	483.3	456.2	406.5	379.5	365.9	356.8
52.5°	343.3	352.3	370.4	411.1	447.2	478.8	451.7	402.0	370.4	361.4	352.3
55°	307.1	320.7	352.3	402.0	442.7	478.8	442.7	397.5	352.3	329.8	320.7
57.5°	293.6	302.7	343.3	406.5	438.2	478.8	442.7	397.5	352.3	311.7	302.7
60°	280.1	298.1	343.3	393.0	433.6	483.3	447.2	393.0	343.3	293.6	293.6
62.5°	266.5	280.1	338.8	383.9	415.5	465.2	429.1	383.9	329.8	280.1	275.5
65°	230.3	253.0	298.1	320.7	356.8	402.0	365.9	334.3	289.1	248.4	243.9
67.5°	176.2	185.2	221.4	248.4	271.1	311.7	293.6	253.0	221.4	189.7	189.7
70°	121.9	131.0	158.1	171.6	194.3	216.8	203.3	171.6	149.0	131.0	126.5
72.5°	85.8	90.3	99.4	108.4	117.4	126.5	121.9	99.4	85.8	81.3	76.8
75°	67.8	76.8	81.3	76.8	72.2	67.8	67.8	58.7	49.7	45.2	45.2
77.5°	67.8	72.2	67.8	58.7	49.7	45.2	40.6	36.2	27.1	22.6	27.1
80°	58.7	58.7	58.7	49.7	45.2	40.6	36.2	31.6	27.1	22.6	22.6
82.5°	63.2	63.2	58.7	49.7	49.7	40.6	40.6	36.2	31.6	22.6	22.6
85°	0.0	0.0	0.0	9.0	22.6	40.6	40.6	36.2	31.6	27.1	27.1
87.5°	0.0	0.0	0.0	0.0	4.5	9.0	18.1	22.6	27.1	27.1	27.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6
2.5°	9973.7	10145.3	10470.5	10795.7	10994.5	11229.4	11654.0	11879.9	12173.5	12318.0	12602.6
5°	8035.8	8442.4	8586.9	8957.3	9354.8	9752.3	10384.7	11080.3	11658.5	12056.0	12570.9
7.5°	5863.1	5958.0	6518.1	6766.5	7417.0	8139.7	9002.5	9878.8	10610.6	11261.0	11654.0
10°	4395.1	4742.9	5095.2	5569.5	6093.5	6838.8	7665.5	8632.1	9580.7	10231.1	10728.0
12.5°	3532.4	3807.9	4277.7	4788.1	5434.0	5926.4	6757.5	7715.2	8943.8	9580.7	10235.6
15°	2674.1	3026.4	3559.4	4087.9	4770.0	5289.5	6129.6	7335.7	8916.7	9792.9	10357.6
17.5°	1983.0	2222.4	2701.2	3292.9	3988.5	4720.3	5854.1	7295.0	9219.3	10262.7	10845.5
20°	1517.8	1599.1	1901.7	2430.2	3184.5	4142.2	5406.9	7471.2	10113.7	11405.6	11997.3
22.5°	1228.6	1264.8	1382.2	1748.1	2479.9	3636.2	5194.6	7593.1	11121.0	12774.2	13564.7
25°	1070.5	1061.5	1138.3	1296.4	1937.8	3161.9	4923.6	8053.9	12354.1	14382.3	15091.5
27.5°	975.6	975.6	1011.8	1124.8	1608.1	2854.8	4751.9	8383.7	13596.4	15796.2	16180.1
30°	926.0	935.0	1038.9	1075.1	1337.0	2488.9	4467.4	8717.9	14784.4	16699.6	17228.1
32.5°	858.2	822.1	799.5	889.9	1124.8	2159.2	4182.8	8857.9	15746.5	17806.2	18257.9
35°	659.5	641.4	668.5	736.3	966.6	1879.1	3866.6	9016.0	16853.1	19089.1	19179.4
37.5°	596.3	591.7	609.8	668.5	813.1	1635.2	3640.8	8975.4	17697.8	20150.6	19906.6
40°	551.1	551.1	564.6	614.4	727.2	1463.5	3405.9	8939.2	18515.4	21343.1	20629.4
42.5°	514.9	514.9	537.6	569.2	691.1	1350.6	3229.7	8889.5	19202.0	22074.8	21054.0
45°	465.2	478.8	514.9	546.6	700.1	1273.8	3098.7	8699.8	19436.9	22065.8	20850.7
47.5°	429.1	447.2	483.3	528.5	632.3	1251.2	3008.3	8532.7	19355.6	21523.8	20213.9
50°	388.5	411.1	460.7	537.6	537.6	1206.1	2913.5	8681.8	19296.8	21103.7	19604.0
52°	361.4	379.5	442.7	523.9	469.8	1111.2	2854.8	8970.9	19536.3	21049.5	19333.0
52.5°	356.8	370.4	429.1	514.9	447.2	1093.1	2814.2	9038.6	19613.0	20914.0	19518.2
55°	316.2	334.3	393.0	402.0	365.9	898.9	2683.1	9192.2	19233.6	20647.5	19342.0
57.5°	298.1	307.1	347.8	329.8	316.2	677.6	2308.2	8952.8	17083.5	18339.3	17996.0
60°	275.5	284.6	325.2	257.4	266.5	474.3	1734.6	7773.9	13718.3	15281.2	15900.0
62.5°	266.5	262.0	307.1	207.8	225.9	343.3	1224.2	6319.4	10569.9	12580.0	13650.5
65°	234.9	230.3	221.4	176.2	194.3	266.5	731.8	4124.1	7448.7	9517.4	10104.6
67.5°	180.6	189.7	162.6	140.0	162.6	207.8	406.5	1847.5	3907.3	5709.5	6183.9
70°	126.5	135.5	131.0	121.9	144.6	171.6	234.9	632.3	1617.1	2999.3	3306.5
72.5°	76.8	94.9	99.4	103.9	126.5	149.0	167.1	203.3	429.1	1061.5	1318.9
75°	45.2	63.2	76.8	90.3	103.9	126.5	140.0	144.6	149.0	198.7	320.7
77.5°	31.6	45.2	67.8	85.8	103.9	126.5	149.0	158.1	149.0	140.0	149.0
80°	27.1	45.2	63.2	81.3	108.4	131.0	149.0	149.0	144.6	126.5	135.5
82.5°	27.1	45.2	67.8	85.8	103.9	126.5	144.6	149.0	135.5	126.5	131.0
85°	31.6	49.7	72.2	90.3	112.9	103.9	94.9	76.8	72.2	58.7	63.2
87.5°	31.6	45.2	45.2	49.7	54.2	54.2	54.2	49.7	40.6	36.2	36.2
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°	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6	11545.6
2.5°	12616.1	12977.5	12963.9	12973.0	12918.8	12552.9	12376.7	11929.5	12056.0	12001.8
5°	13099.5	13456.3	13763.5	13727.3	13311.8	12814.9	12078.6	11383.0	11193.3	10913.2
7.5°	12616.1	13474.3	13758.9	13718.3	13104.0	12467.1	11292.6	10597.0	10267.3	10082.1
10°	11848.3	12842.0	13194.3	13266.6	12851.0	11884.3	10804.8	9689.1	9512.9	9192.2
12.5°	11410.1	12132.8	12349.7	12543.9	12399.3	11676.6	10434.4	9363.9	9120.0	8907.6
15°	11053.3	11482.3	11572.7	11794.0	11879.9	11491.4	10628.6	9716.2	9115.4	9092.8
17.5°	11383.0	11206.8	10877.1	10944.9	11215.8	11495.9	11130.0	10411.8	9829.1	9756.9
20°	11929.5	11152.6	10407.3	10574.4	10800.3	11658.5	11888.9	11383.0	11048.7	10863.5
22.5°	12557.4	11247.4	10258.3	10339.5	10768.7	12024.4	13117.5	12837.4	12214.1	11947.6
25°	13718.3	11509.4	10375.7	10429.9	11017.1	12534.9	14228.7	14436.5	14066.1	14011.9
27.5°	14852.1	12187.0	10633.2	10511.2	11143.6	13031.7	14901.8	16017.5	15367.0	15240.5
30°	15430.2	12738.1	11017.1	10809.3	11667.5	13334.3	15308.3	17047.4	16478.2	16419.5
32.5°	16315.6	13239.5	11315.2	11048.7	11961.1	13709.2	16067.1	18172.1	17621.1	17327.5
35°	16686.0	13786.1	11970.2	11658.5	12801.4	14233.3	16455.6	19174.9	19003.2	18718.6
37.5°	17399.7	14373.3	12742.6	12724.6	13817.6	14915.3	17155.8	20539.1	20507.4	20015.0
40°	17458.4	15014.7	13962.2	14531.4	15389.6	16103.3	17770.1	20918.4	21433.4	21099.2
42.5°	17548.7	16139.5	16071.7	16541.5	17277.8	17124.2	17792.7	21008.9	21794.8	21596.0
45°	17589.4	17264.2	18217.3	19084.6	19391.7	18461.2	17580.3	20837.2	21984.5	21487.6
47.5°	17264.2	18230.9	19951.8	21627.7	21718.0	19283.3	17490.0	20661.0	22097.4	21767.7
50°	17309.4	18836.1	21451.5	22951.1	22621.4	20010.6	17350.0	20552.6	22038.7	21817.4
52°	17201.0	18849.7	21663.8	22924.1	22693.7	19608.5	17110.6	20137.1	21984.5	22142.6
52.5°	17322.9	18768.3	21442.5	22942.1	22644.0	19807.3	17078.9	20367.4	22016.1	21695.4
55°	16902.8	17801.7	20146.1	20783.0	20737.8	17977.9	16107.8	19604.0	21189.5	21194.0
57.5°	15276.7	15430.2	15800.6	15787.1	15579.4	14133.8	13777.0	18027.6	18890.3	18420.6
60°	13460.8	11297.2	10298.9	9892.3	9662.0	9427.1	12187.0	16491.8	16573.1	16374.4
62.5°	11631.5	7832.6	6504.5	6391.6	6445.8	7304.1	11780.5	15881.9	15394.1	14965.0
65°	9386.4	5709.5	4724.8	4575.8	5104.3	6030.3	9535.5	12178.0	11428.2	11071.3
67.5°	5894.7	4164.7	3193.5	2913.5	3550.4	4151.2	6265.1	7651.9	6811.7	6319.4
70°	3496.2	2326.3	1445.4	1296.4	1459.0	2213.3	3509.7	3816.9	3157.5	2904.5
72.5°	1377.7	853.7	402.0	343.3	356.8	776.9	1291.9	1260.2	953.1	849.2
75°	370.4	257.4	140.0	112.9	94.9	144.6	207.8	135.5	49.7	63.2
77.5°	171.6	153.6	121.9	94.9	72.2	54.2	27.1	9.0	9.0	4.5
80°	149.0	131.0	112.9	94.9	72.2	45.2	22.6	4.5	4.5	4.5
82.5°	140.0	121.9	103.9	85.8	67.8	45.2	22.6	4.5	0.0	0.0
85°	58.7	76.8	85.8	81.3	72.2	45.2	22.6	4.5	0.0	0.0
87.5°	31.6	27.1	22.6	18.1	13.5	9.0	9.0	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

(END OF REPORT)