

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: P458237

Luminaire Tested: **GALN-SA9C-827-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33647 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

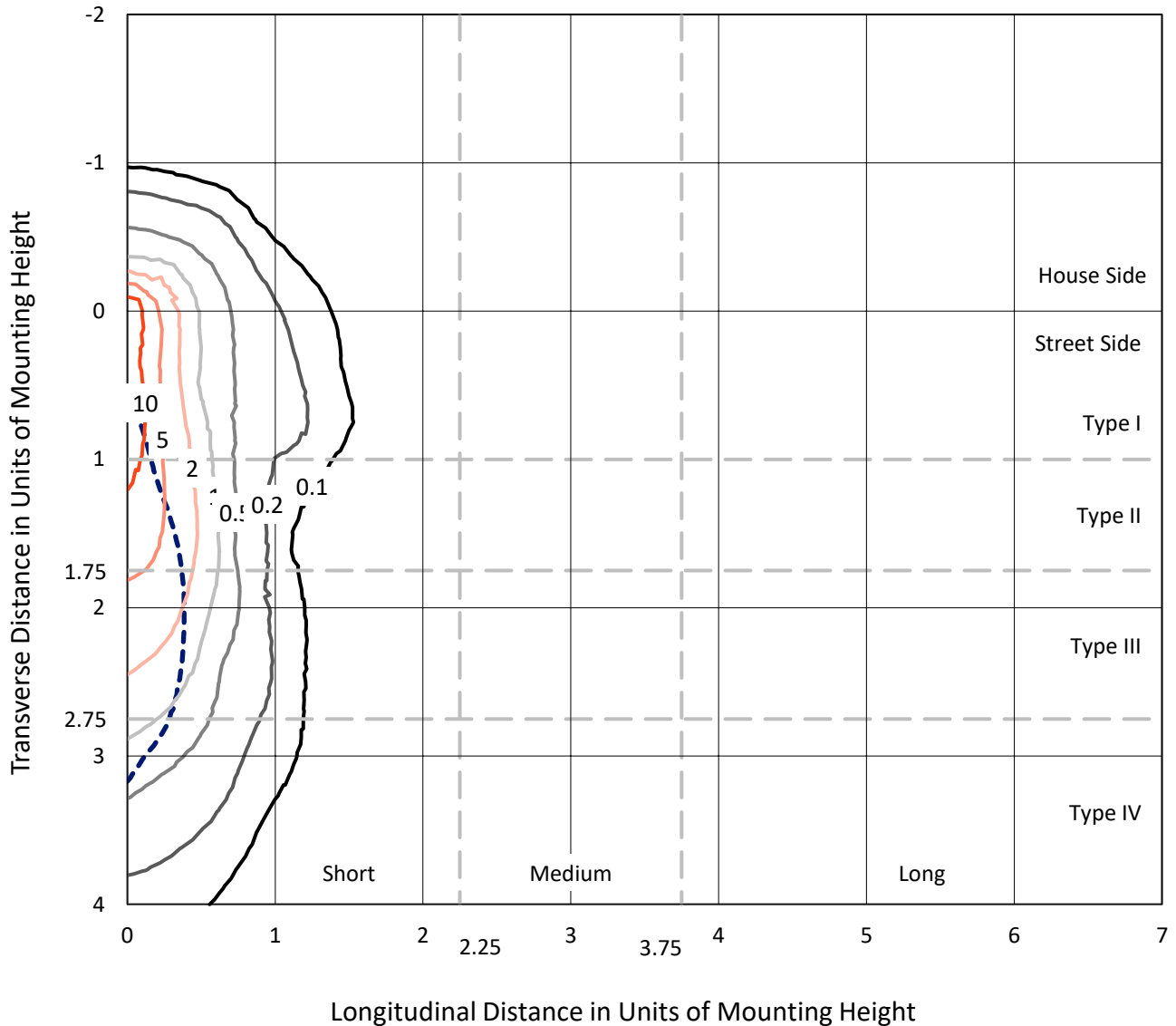
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

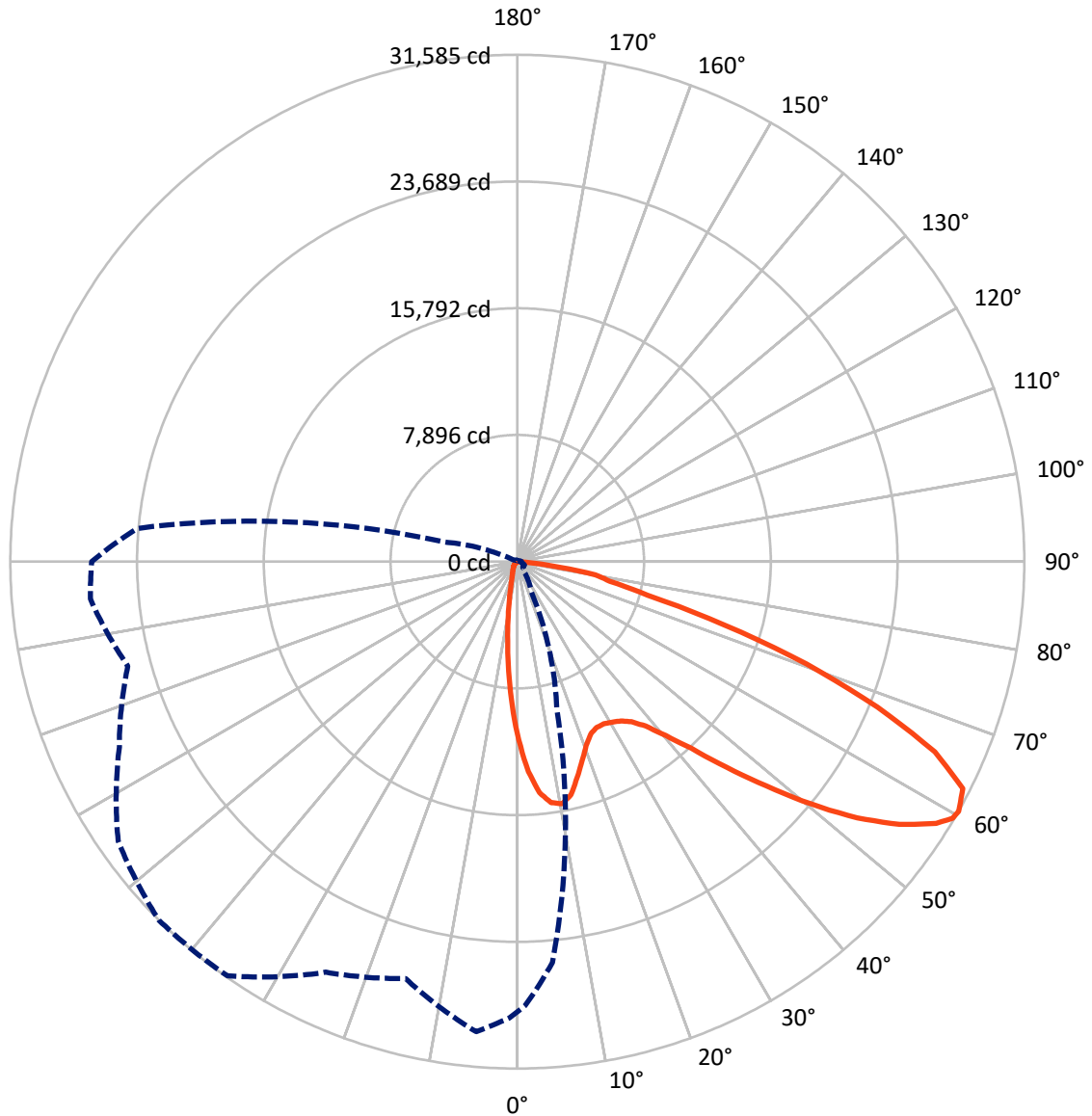
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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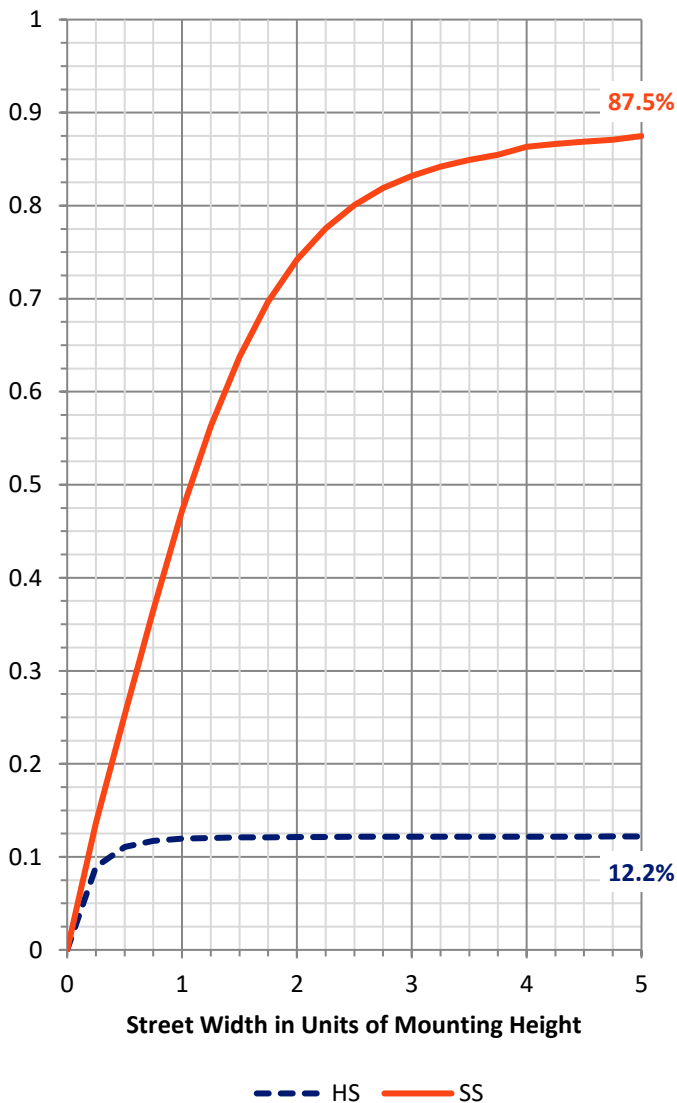
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4150.0	0.0	4150.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	29497.0	0.0	29497.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	33647.0	0.0	33647.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.1	2.5
10°-20°	1642.7	4.9
20°-30°	2408.6	7.2
30°-40°	3582.0	10.6
40°-50°	5213.0	15.5
50°-60°	7517.5	22.3
60°-70°	8268.5	24.6
70°-80°	3703.6	11.0
80°-90°	483.9	1.4
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°	33647.0	100.0
0°-180°	33647.0	100.0



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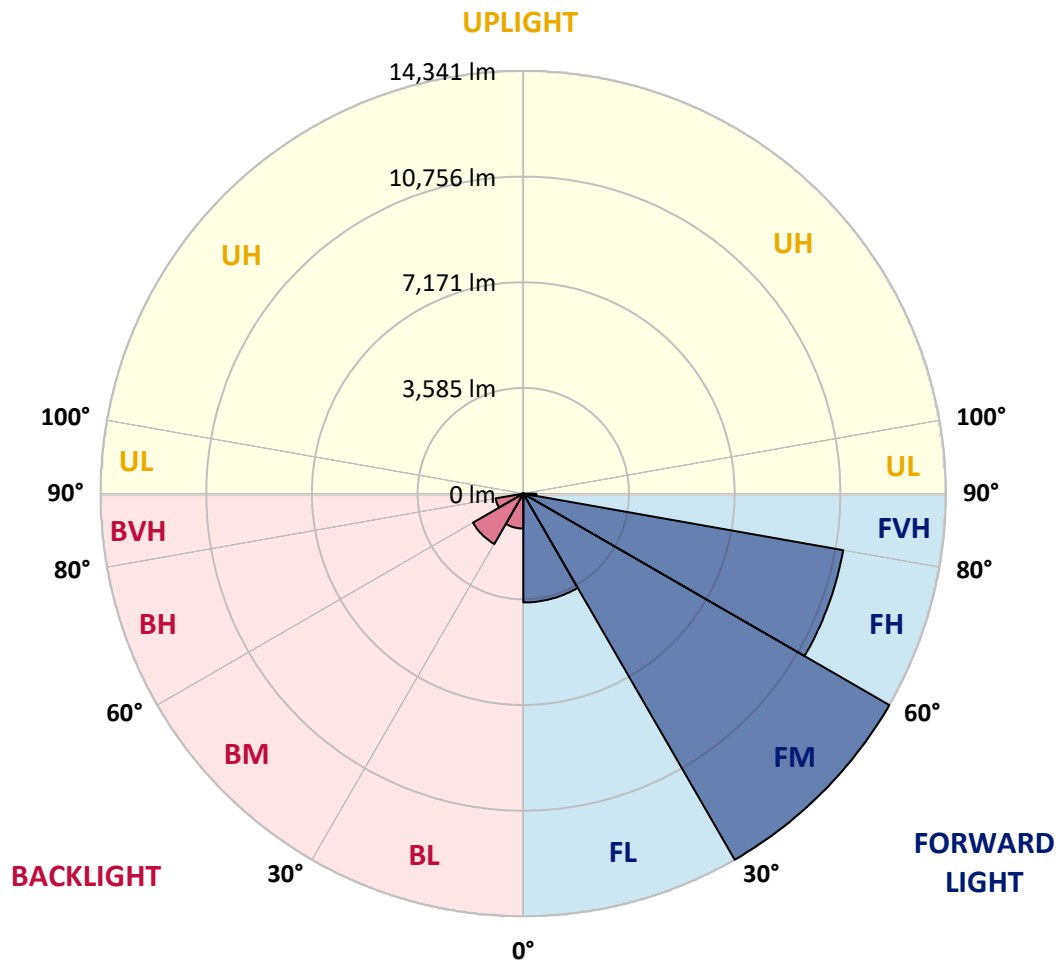
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3692.6	11.0			
FM	(30°-60°)	14341.4	42.6			
FH	(60°-80°)	11020.4	32.8			G4/12000
FVH	(80°-90°)	442.6	1.3			G3/500
BL	(0°-30°)	1185.8	3.5	B3/2500		
BM	(30°-60°)	1971.2	5.9	B2/2500		
BH	(60°-80°)	951.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	41.4	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8
2.5°	12225.7	12172.0	12049.3	11675.8	11351.0	10926.4	10496.7	10159.1	9952.0	9570.9	9396.9
5°	11844.6	11870.2	11514.7	10747.4	9893.1	9310.0	8673.1	8166.7	7609.1	7256.2	6885.3
7.5°	10849.7	10798.5	10412.3	9343.2	8304.8	7460.8	6655.1	6000.3	5588.5	5258.6	4982.4
10°	9998.0	9959.6	9466.0	8090.0	6974.8	6343.1	5798.3	5225.4	4782.9	4299.5	3913.3
12.5°	9463.4	9376.5	8808.7	7371.2	6463.3	5875.0	5281.6	4685.7	4074.4	3585.9	3117.8
15°	9284.4	9159.1	8527.3	7123.2	6135.9	5389.0	4644.8	3959.3	3255.9	2716.3	2363.3
17.5°	9609.2	9402.1	8729.4	7079.7	5744.6	4754.7	3839.1	2946.5	2215.0	1803.2	1585.8
20°	10353.5	10115.6	9240.9	7036.2	5309.8	4043.7	2918.3	2082.0	1532.1	1307.0	1186.8
22.5°	11458.4	11131.0	9998.0	7105.2	4908.2	3350.6	2107.5	1470.7	1217.5	1076.8	992.4
25°	12785.9	12512.2	10957.1	7350.8	4591.0	2805.8	1629.2	1202.1	1025.6	938.7	874.7
27.5°	14241.2	13803.8	12197.6	7644.9	4302.0	2383.8	1429.7	1074.2	913.1	833.8	800.6
30°	15277.1	14936.9	13236.0	7849.5	3941.4	2066.6	1307.0	1058.9	915.7	821.0	759.6
32.5°	16300.1	15865.3	14105.6	7944.2	3678.0	1846.6	1130.5	923.3	803.1	754.5	693.1
35°	17394.8	16939.5	14972.7	7893.0	3481.0	1700.9	1025.6	823.6	688.0	606.2	544.8
37.5°	18502.3	18021.4	15834.6	7708.9	3358.2	1642.0	943.8	782.7	649.7	565.2	498.7
40°	19816.9	19175.0	16642.9	7558.0	3230.4	1611.3	890.1	757.1	621.5	532.0	465.5
42.5°	20891.2	20279.9	17407.6	7478.7	3143.4	1539.7	890.1	736.6	603.6	503.9	434.8
45°	21909.1	21274.8	18233.7	7542.6	3107.6	1450.2	900.3	734.1	590.8	483.4	414.3
47.5°	22760.8	22210.9	19082.9	7783.0	3061.5	1353.0	846.6	769.9	583.2	465.5	393.9
50°	23766.0	23234.0	20205.7	8269.0	2979.7	1255.8	780.1	828.7	580.6	450.2	376.0
52.5°	25183.0	24607.5	21755.7	8821.5	2849.3	1107.5	718.7	821.0	570.4	424.6	358.1
55°	26914.5	26449.0	23551.2	9483.9	2670.2	941.2	621.5	728.9	539.7	381.1	327.4
57.5°	28024.6	27628.1	24896.5	9770.4	2396.6	769.9	547.3	611.3	493.6	340.2	291.6
59°	28155.0	27796.9	25177.9	9675.7	2217.5	703.4	511.5	524.3	480.8	317.2	271.1
60°	28045.0	27674.2	25065.3	9491.6	2051.3	657.3	480.8	465.5	483.4	304.4	255.8
62.5°	27339.1	26704.8	23973.2	8558.0	1792.9	603.6	427.1	381.1	427.1	273.7	227.6
65°	25975.8	25024.4	21811.9	7243.4	1690.6	572.9	363.2	319.7	324.8	240.4	196.9
67.5°	23594.6	22395.1	18934.5	5885.2	1647.1	575.5	306.9	286.5	250.7	204.6	173.9
70°	19829.7	18632.7	15192.6	4841.7	1626.7	575.5	260.9	245.5	209.7	171.4	150.9
72.5°	14051.9	12762.8	10248.6	3803.3	1465.6	572.9	222.5	222.5	171.4	143.2	122.8
75°	7939.1	7949.3	6442.8	2690.7	1217.5	473.2	179.0	176.5	125.3	110.0	92.1
77.5°	4626.9	4545.0	4342.9	1156.1	565.2	214.8	125.3	107.4	87.0	79.3	66.5
80°	2378.6	1956.6	1905.5	419.5	202.1	135.6	87.0	61.4	56.3	51.2	46.0
82.5°	703.4	705.9	629.2	168.8	112.5	89.5	43.5	33.2	30.7	28.1	28.1
85°	48.6	30.7	35.8	51.2	69.1	35.8	2.6	7.7	7.7	10.2	12.8
87.5°	5.1	2.6	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°	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8
2.5°	9205.1	9317.6	9107.9	9113.0	8939.1	8995.4	8790.8	8857.3	8737.1	8829.1	9100.2
5°	6926.2	6951.8	6783.0	6729.3	6754.8	6859.7	6900.6	6713.9	6793.2	6637.2	6627.0
7.5°	4880.1	4910.8	4813.6	4800.8	4984.9	4941.4	5020.7	4828.9	4647.3	4726.6	4580.8
10°	3790.5	3662.6	3463.1	3406.8	3371.0	3394.0	3394.0	3220.1	3194.5	3125.5	3230.4
12.5°	2992.5	2836.5	2647.2	2391.4	2327.5	2322.4	2227.7	2074.3	2025.7	1966.9	2053.8
15°	2174.0	2110.1	1951.5	1808.3	1662.5	1634.4	1480.9	1355.6	1189.3	1166.3	1158.6
17.5°	1529.5	1434.9	1432.3	1350.5	1266.1	1209.8	1066.6	923.3	859.4	851.7	851.7
20°	1145.8	1112.6	1058.9	1048.7	1023.1	959.1	831.2	754.5	723.8	726.4	736.6
22.5°	964.2	941.2	892.6	869.6	859.4	803.1	708.5	657.3	642.0	642.0	644.5
25°	861.9	841.5	787.8	752.0	739.2	698.2	624.1	585.7	572.9	572.9	572.9
27.5°	785.2	759.6	703.4	672.7	649.7	603.6	557.6	519.2	506.4	506.4	509.0
30°	731.5	703.4	652.2	611.3	575.5	534.6	496.2	462.9	447.6	445.0	447.6
32.5°	659.9	634.3	583.2	557.6	516.7	468.1	437.4	406.7	391.3	393.9	391.3
35°	514.1	506.4	470.6	478.3	455.3	414.3	386.2	353.0	335.1	332.5	337.6
37.5°	468.1	437.4	396.4	399.0	391.3	376.0	329.9	294.1	281.3	281.3	283.9
40°	432.2	401.6	355.5	332.5	335.1	335.1	286.5	248.1	235.3	232.7	237.9
42.5°	401.6	370.9	319.7	281.3	271.1	283.9	243.0	204.6	191.8	186.7	191.8
45°	381.1	347.8	289.0	245.5	214.8	230.2	199.5	168.8	153.5	153.5	150.9
47.5°	360.6	329.9	266.0	212.3	179.0	171.4	163.7	135.6	120.2	117.7	120.2
50°	342.7	312.0	240.4	184.2	150.9	133.0	133.0	107.4	97.2	92.1	94.6
52.5°	324.8	291.6	217.4	163.7	130.4	107.4	94.6	87.0	79.3	76.7	79.3
55°	299.2	266.0	194.4	140.7	112.5	89.5	74.2	71.6	66.5	61.4	66.5
57.5°	268.6	237.9	171.4	120.2	89.5	69.1	61.4	58.8	53.7	51.2	51.2
59°	250.7	222.5	158.6	104.9	79.3	61.4	56.3	53.7	48.6	43.5	46.0
60°	240.4	217.4	150.9	97.2	71.6	56.3	51.2	48.6	43.5	40.9	43.5
62.5°	212.3	194.4	133.0	79.3	56.3	40.9	35.8	38.4	35.8	33.2	35.8
65°	186.7	171.4	112.5	61.4	43.5	28.1	25.6	33.2	30.7	28.1	30.7
67.5°	166.2	148.3	94.6	46.0	30.7	15.3	17.9	28.1	28.1	25.6	28.1
70°	143.2	127.9	76.7	33.2	15.3	7.7	12.8	20.5	25.6	23.0	25.6
72.5°	117.7	99.7	58.8	23.0	7.7	0.0	7.7	17.9	25.6	23.0	25.6
75°	92.1	74.2	43.5	12.8	0.0	0.0	2.6	15.3	25.6	23.0	25.6
77.5°	66.5	53.7	25.6	2.6	0.0	0.0	2.6	15.3	25.6	23.0	25.6
80°	43.5	38.4	10.2	0.0	0.0	0.0	2.6	15.3	25.6	25.6	28.1
82.5°	28.1	20.5	0.0	0.0	0.0	0.0	5.1	20.5	28.1	30.7	30.7
85°	12.8	0.0	0.0	0.0	0.0	0.0	10.2	25.6	33.2	33.2	33.2
87.5°	0.0	0.0	0.0	0.0	0.0	5.1	17.9	30.7	38.4	38.4	38.4
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°	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8
2.5°	9146.3	9307.4	9535.0	9885.5	10169.4	10617.0	10959.7	11427.7	11900.9	12044.1	12266.7
5°	6731.8	6939.0	7455.7	7926.3	8223.0	9169.3	9767.8	10711.6	11558.2	11964.9	12407.3
7.5°	4675.4	4921.0	5314.9	5972.2	6596.3	7366.1	8332.9	9412.3	10652.8	11233.4	11857.4
10°	3281.5	3588.4	4143.4	4683.1	5468.3	6199.8	7153.8	8345.7	9714.1	10399.5	11182.2
12.5°	2071.7	2345.4	3079.5	3685.6	4665.2	5514.4	6394.2	7473.6	9059.3	9762.7	10583.7
15°	1184.2	1414.4	1757.1	2534.7	3621.7	4744.5	5841.8	7095.0	8724.3	9591.3	10478.8
17.5°	882.4	943.8	1097.2	1537.2	2527.0	3839.1	5332.8	6979.9	8951.9	9969.9	10982.7
20°	741.7	782.7	854.3	1028.2	1611.3	2956.7	4836.6	7000.4	9688.5	10967.4	11929.0
22.5°	665.0	690.6	749.4	861.9	1099.8	2153.6	4256.0	7120.6	10581.1	12192.5	13302.5
25°	583.2	616.4	667.6	764.7	915.7	1493.7	3683.1	7389.2	11831.9	13747.6	14791.1
27.5°	519.2	549.9	601.1	690.6	803.1	1140.7	3015.5	7619.3	13151.6	15312.9	16167.1
30°	455.3	486.0	537.1	608.7	711.0	923.3	2296.8	7754.9	14433.0	16486.8	17144.2
32.5°	401.6	427.1	475.7	539.7	624.1	782.7	1810.8	7614.2	15412.6	17553.4	17993.3
35°	347.8	378.5	419.5	478.3	552.5	667.6	1506.5	7128.3	16254.1	18650.6	18809.2
37.5°	291.6	327.4	370.9	424.6	483.4	613.8	1209.8	6591.2	17154.4	20019.0	19758.1
40°	245.5	278.8	319.7	378.5	432.2	562.7	931.0	6018.2	18126.3	21303.0	20794.0
42.5°	199.5	235.3	283.9	337.6	427.1	491.1	721.3	5424.8	18998.5	22420.7	21730.1
45°	158.6	189.3	240.4	309.5	424.6	422.0	557.6	4839.1	19655.8	23218.7	22428.3
47.5°	125.3	150.9	202.1	301.8	391.3	358.1	447.6	4475.9	20346.4	23937.4	22962.9
50°	99.7	125.3	173.9	314.6	342.7	306.9	376.0	4534.8	21013.9	24303.1	23182.9
52.5°	84.4	110.0	150.9	248.1	263.4	268.6	329.9	4805.9	21875.9	24694.4	23620.2
55°	74.2	97.2	127.9	173.9	204.6	240.4	301.8	5002.8	23029.4	25533.4	24584.5
57.5°	58.8	84.4	115.1	148.3	168.8	209.7	278.8	5018.2	24072.9	26610.2	25865.9
59°	53.7	76.7	107.4	140.7	150.9	189.3	263.4	4887.7	24111.3	26771.3	26454.1
60°	48.6	74.2	102.3	130.4	143.2	179.0	250.7	4736.8	23763.5	26515.5	26697.1
62.5°	40.9	63.9	89.5	104.9	122.8	148.3	217.4	4189.5	22077.9	25356.9	26247.0
65°	35.8	56.3	76.7	87.0	102.3	127.9	191.8	3353.1	20215.9	23786.5	24957.9
67.5°	33.2	51.2	66.5	74.2	89.5	117.7	171.4	2368.4	17804.0	21794.0	23021.7
70°	30.7	48.6	58.8	69.1	79.3	99.7	145.8	1381.1	13714.3	18300.2	19597.0
72.5°	30.7	46.0	51.2	58.8	69.1	89.5	135.6	746.8	9376.5	13959.8	15635.1
75°	30.7	43.5	46.0	51.2	61.4	81.8	120.2	391.3	6061.7	9698.7	11970.0
77.5°	30.7	40.9	46.0	48.6	58.8	71.6	104.9	245.5	4038.6	6793.2	8090.0
80°	33.2	40.9	43.5	48.6	56.3	66.5	87.0	163.7	2373.5	4087.2	4923.5
82.5°	35.8	40.9	46.0	51.2	58.8	63.9	76.7	102.3	1094.7	2703.5	3059.0
85°	38.4	43.5	48.6	53.7	61.4	63.9	71.6	74.2	179.0	1220.0	1649.7
87.5°	40.9	46.0	51.2	56.3	66.5	66.5	66.5	66.5	61.4	130.4	332.5
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°	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8	11120.8
2.5°	12548.0	12837.0	13039.1	13090.2	12944.4	12877.9	12693.8	12407.3	12233.4	12225.7
5°	13223.2	13901.0	14371.6	14450.9	14169.6	13693.8	13128.6	12399.7	11972.5	11844.6
7.5°	13108.1	14294.9	15052.0	15162.0	14688.8	13780.8	12686.1	11512.1	11046.6	10849.7
10°	12635.0	14082.6	15164.5	15338.4	14706.7	13427.8	12036.5	10726.9	10148.9	9998.0
12.5°	12230.8	13693.8	14655.5	14896.0	14417.7	13141.4	11647.7	10223.1	9604.1	9463.4
15°	12054.4	13233.5	13821.7	13944.5	13865.2	12962.3	11606.8	10146.3	9437.9	9284.4
17.5°	12230.8	12842.1	12916.3	13041.6	13218.1	12944.4	12000.7	10563.2	9798.5	9609.2
20°	12693.8	12502.0	12195.0	12248.8	12652.9	13018.6	12701.5	11486.6	10555.6	10353.5
22.5°	13481.6	12417.6	11721.9	11675.8	12187.4	13266.7	13729.7	12737.3	11657.9	11458.4
25°	14448.4	12629.8	11547.9	11448.2	12005.8	13629.9	14847.4	14269.3	13090.2	12785.9
27.5°	15502.1	13069.8	11547.9	11450.8	11990.4	13952.2	15803.9	15624.9	14573.7	14241.2
30°	16080.2	13433.0	11714.2	11604.2	12179.7	14138.9	16315.5	16829.6	15688.8	15277.1
32.5°	16596.8	13936.8	12039.0	11831.9	12576.1	14415.1	16773.3	17852.6	16576.4	16300.1
35°	17072.5	14476.5	12486.6	12246.2	13097.9	14793.7	17279.7	18926.9	17811.7	17394.8
37.5°	17596.9	15103.1	13184.9	12980.3	13970.1	15530.3	17880.8	20338.7	19026.6	18502.3
40°	18167.2	15829.5	14333.3	14246.3	15356.3	16364.1	18640.4	21845.2	20412.9	19816.9
42.5°	18747.8	16665.9	15740.0	15883.2	16926.8	17532.9	19420.5	23003.8	21548.5	20891.2
45°	19274.7	17735.0	17568.7	18277.2	18758.1	18673.7	19998.5	23819.7	22538.3	21909.1
47.5°	19939.7	19292.6	19781.1	20873.3	20886.1	19914.1	20435.9	24487.3	23390.0	22760.8
50°	20684.0	21131.6	22638.1	23750.7	23451.4	21134.2	20947.4	25277.6	24269.9	23766.0
52.5°	21545.9	23190.5	25277.6	26513.0	25814.7	22464.1	21799.1	26131.9	25666.4	25183.0
55°	22548.6	24594.7	27909.5	28894.2	28190.8	24116.4	23093.3	27290.5	27244.5	26914.5
57.5°	23681.6	26078.2	29433.8	30766.4	30139.8	26055.1	24901.6	28382.6	28208.7	28024.6
59°	24576.8	26840.3	30106.5	31487.7	31109.1	27413.3	26116.5	29063.0	28431.2	28155.0
60°	25119.0	27357.0	30354.6	31584.9	31497.9	28221.5	26886.4	29395.5	28428.7	28045.0
62.5°	26727.8	28259.9	30260.0	31152.6	31492.8	29771.5	29144.8	29761.2	27901.8	27339.1
65°	27300.7	27960.6	28692.1	28582.1	28873.7	29692.2	30587.4	29359.7	26776.4	25975.8
67.5°	26185.6	24679.1	24937.4	24203.4	24060.1	26397.9	30001.6	27395.4	24574.2	23594.6
70°	22072.8	18906.4	18776.0	19113.6	18187.7	21372.0	26940.1	23612.5	20939.8	19829.7
72.5°	17374.4	13361.3	12261.5	13504.6	13476.4	16305.2	22379.7	16755.4	14146.6	14051.9
75°	13663.2	9302.3	8164.1	8366.2	8755.0	11803.7	17824.5	10640.0	8711.5	7939.1
77.5°	9171.9	6591.2	6148.7	5900.6	6320.0	7578.4	11276.8	5770.1	4885.2	4626.9
80°	5286.7	4788.0	5437.6	4936.3	5161.4	4775.2	5609.0	2647.2	2197.1	2378.6
82.5°	3440.1	2726.5	2905.5	2158.7	2951.6	2977.1	1800.6	782.7	662.4	703.4
85°	2151.0	1278.8	718.7	511.5	1018.0	1872.2	562.7	48.6	56.3	48.6
87.5°	557.6	212.3	89.5	133.0	163.7	145.8	130.4	7.7	2.6	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)