

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: P652015

Luminaire Tested: **GALN-SA7A-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652015  
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-SA7A-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA 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: 19237.9 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

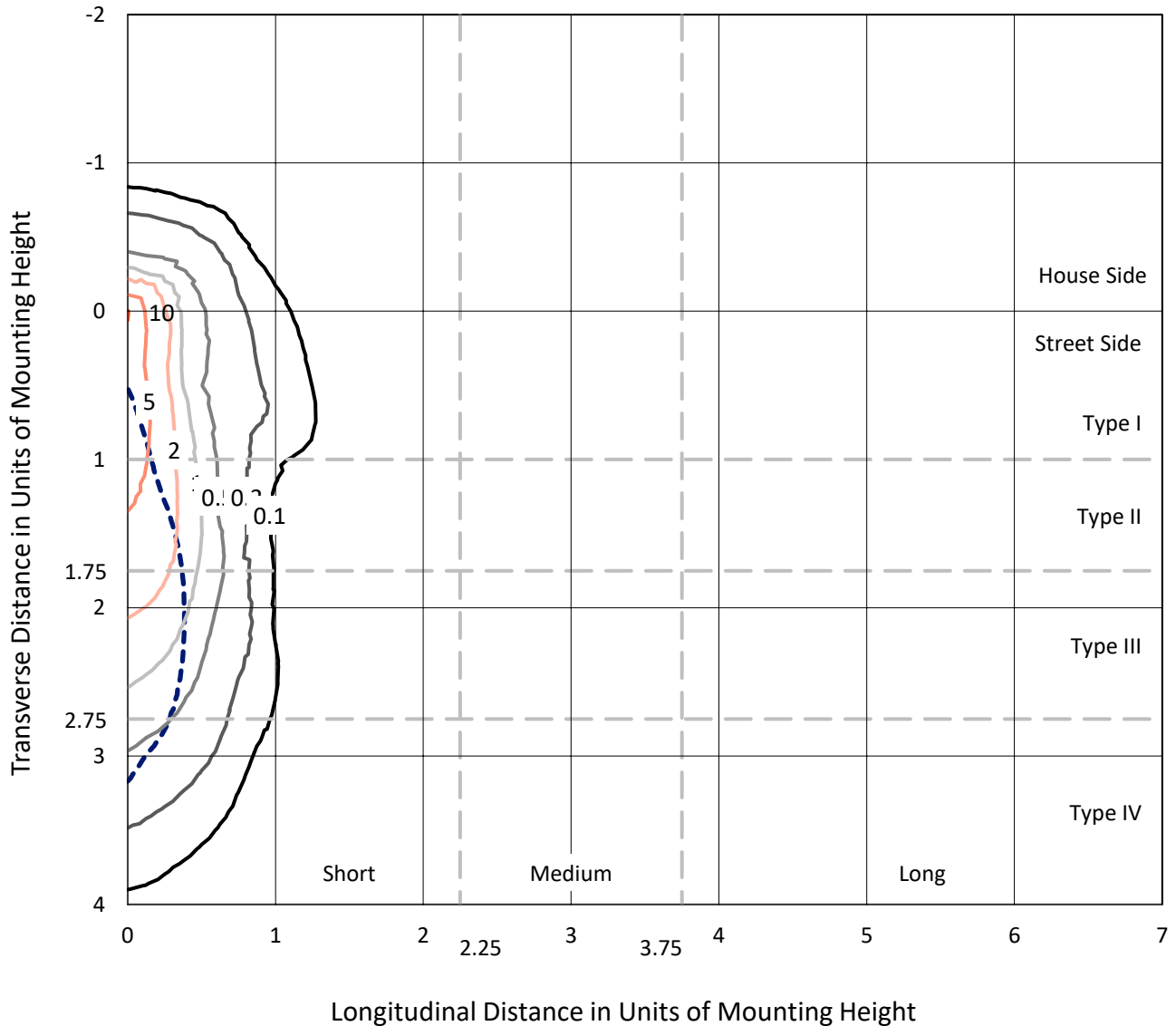
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

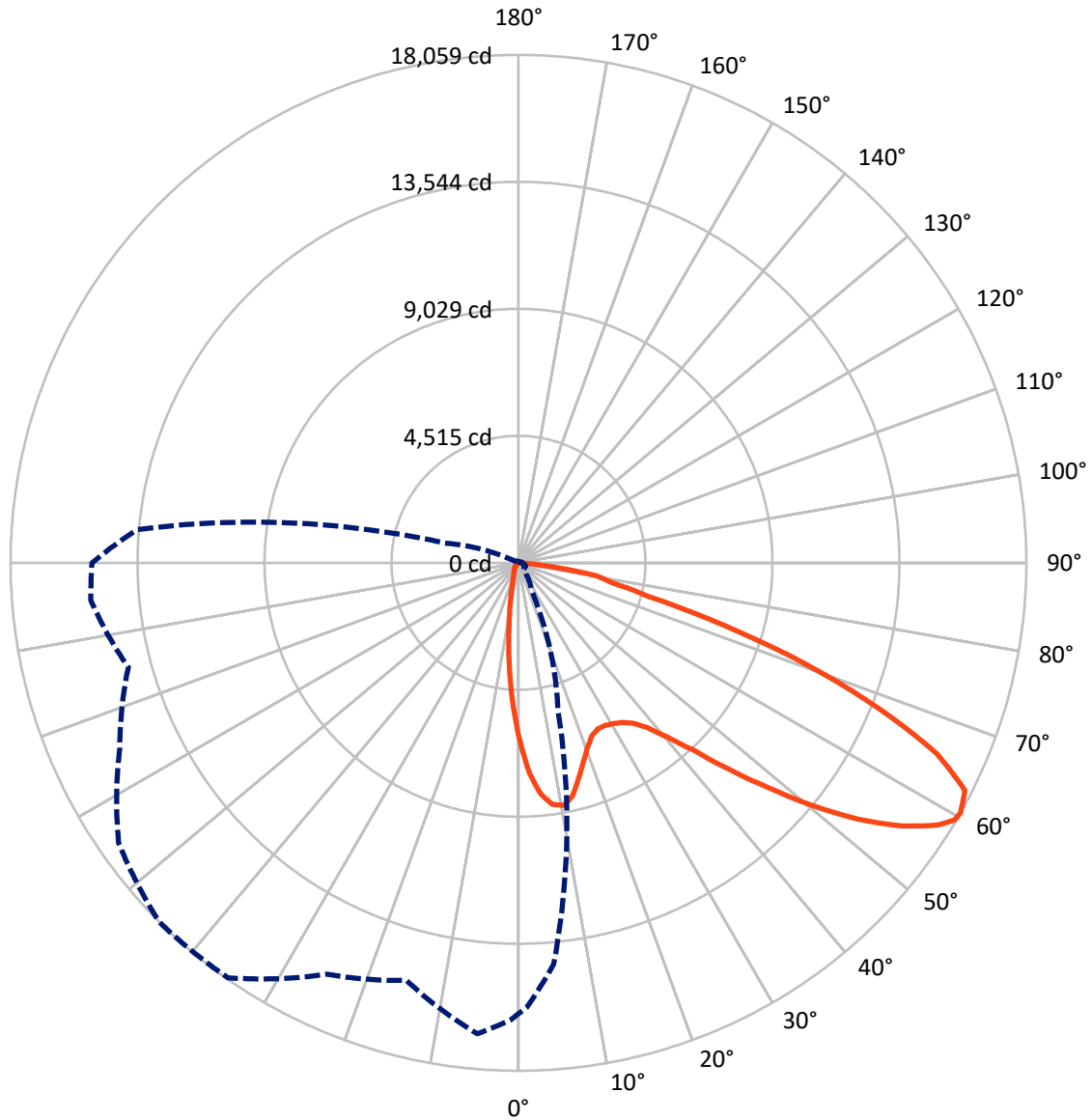
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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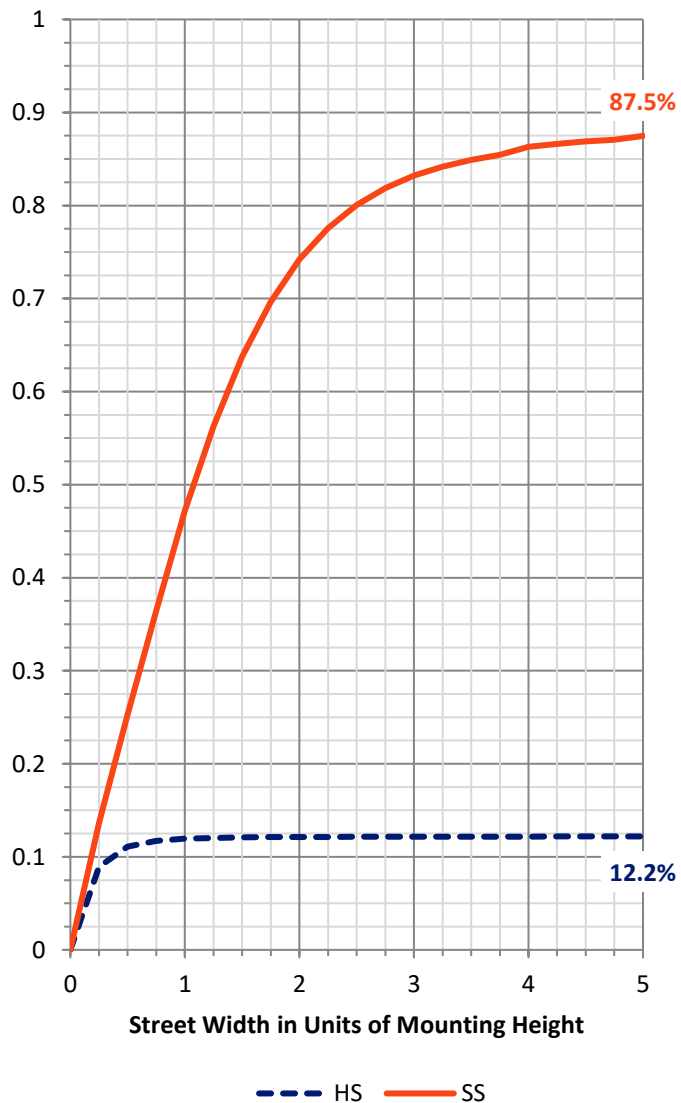
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2372.8	0.0	2372.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	16865.1	0.0	16865.1
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	19237.9	0.0	19237.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.9	2.5
10°-20°	939.2	4.9
20°-30°	1377.1	7.2
30°-40°	2048.1	10.6
40°-50°	2980.6	15.5
50°-60°	4298.2	22.3
60°-70°	4727.6	24.6
70°-80°	2117.6	11.0
80°-90°	276.7	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°	19237.9	100.0
0°-180°	19237.9	100.0

**Coefficient of Utilization**



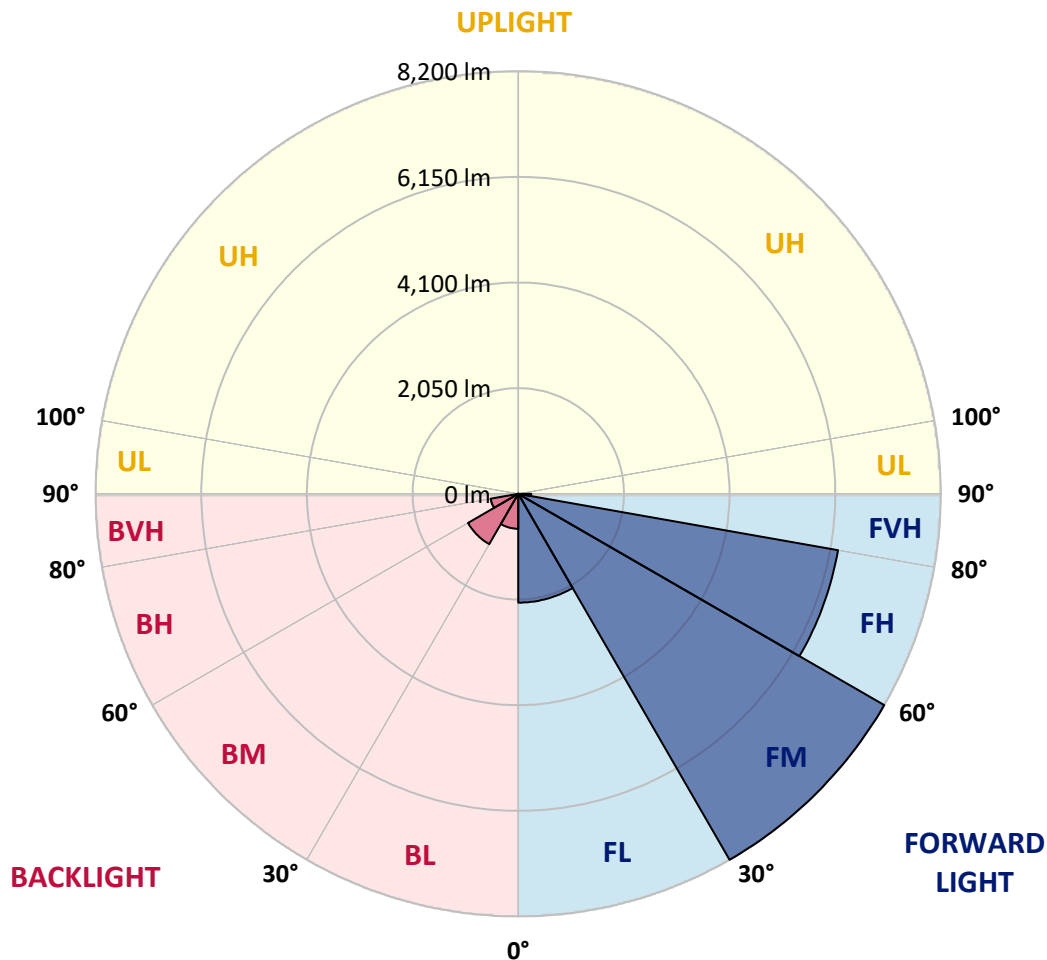
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.3	11.0			
FM (30°-60°)	8199.8	42.6			
FH (60°-80°)	6301.0	32.8			G3/7500
FVH (80°-90°)	253.0	1.3			G3/500
BL (0°-30°)	678.0	3.5	B2/1000		
BM (30°-60°)	1127.0	5.9	B2/2500		
BH (60°-80°)	544.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	23.7	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4
2.5°	6990.1	6959.4	6889.2	6675.7	6490.0	6247.3	6001.5	5808.5	5690.1	5472.2	5372.7
5°	6772.2	6786.9	6583.6	6144.9	5656.5	5323.0	4958.9	4669.3	4350.6	4148.7	3936.7
7.5°	6203.4	6174.1	5953.4	5342.0	4748.3	4265.7	3805.1	3430.7	3195.3	3006.7	2848.7
10°	5716.4	5694.5	5412.3	4625.5	3987.9	3626.6	3315.2	2987.7	2734.6	2458.2	2237.4
12.5°	5410.7	5361.0	5036.4	4214.6	3695.4	3359.0	3019.8	2679.1	2329.6	2050.3	1782.7
15°	5308.4	5236.7	4875.5	4072.7	3508.2	3081.3	2655.6	2263.7	1861.6	1553.1	1351.2
17.5°	5494.2	5375.7	4991.1	4047.8	3284.5	2718.5	2195.0	1684.7	1266.4	1031.0	906.7
20°	5919.7	5783.6	5283.6	4023.0	3035.9	2312.0	1668.5	1190.4	876.0	747.3	678.5
22.5°	6551.4	6364.3	5716.4	4062.5	2806.3	1915.7	1205.0	840.8	696.1	615.7	567.4
25°	7310.4	7153.9	6264.8	4202.9	2624.9	1604.2	931.5	687.3	586.4	536.7	500.1
27.5°	8142.5	7892.4	6974.1	4371.0	2459.7	1362.9	817.5	614.2	522.1	476.8	457.8
30°	8734.7	8540.3	7567.7	4488.0	2253.5	1181.6	747.3	605.4	523.5	469.4	434.3
32.5°	9319.7	9071.1	8065.0	4542.2	2102.9	1055.8	646.4	527.9	459.2	431.4	396.3
35°	9945.6	9685.3	8560.7	4512.9	1990.3	972.4	586.4	470.9	393.4	346.6	311.5
37.5°	10578.8	10303.8	9053.5	4407.6	1920.1	938.8	539.6	447.5	371.5	323.2	285.2
40°	11330.5	10963.4	9515.7	4321.3	1847.0	921.3	508.9	432.9	355.3	304.2	266.2
42.5°	11944.6	11595.1	9952.9	4276.0	1797.2	880.4	508.9	421.2	345.1	288.1	248.6
45°	12526.7	12164.0	10425.3	4312.6	1776.8	829.1	514.8	419.7	337.8	276.4	236.9
47.5°	13013.6	12699.3	10910.8	4450.0	1750.5	773.6	484.1	440.2	333.5	266.2	225.2
50°	13588.4	13284.2	11552.7	4727.8	1703.7	718.0	446.0	473.8	331.9	257.3	215.0
52.5°	14398.5	14069.5	12438.9	5043.7	1629.1	633.2	410.9	469.4	326.1	242.7	204.7
55°	15388.5	15122.4	13465.5	5422.5	1526.8	538.2	355.3	416.8	308.6	217.9	187.2
57.5°	16023.2	15796.5	14234.8	5586.3	1370.2	440.2	312.9	349.5	282.2	194.5	166.7
59°	16097.7	15893.0	14395.6	5532.2	1267.9	402.2	292.5	299.8	274.9	181.3	155.0
60°	16034.9	15822.8	14331.2	5426.9	1172.9	375.8	274.9	266.2	276.4	174.0	146.2
62.5°	15631.3	15268.6	13706.8	4893.1	1025.1	345.1	244.2	217.9	244.2	156.5	130.2
65°	14851.8	14307.8	12471.1	4141.4	966.6	327.6	207.6	182.8	185.7	137.5	112.6
67.5°	13490.4	12804.6	10825.9	3364.9	941.8	329.0	175.5	163.8	143.3	117.0	99.4
70°	11337.8	10653.4	8686.5	2768.2	930.1	329.0	149.2	140.4	119.9	98.0	86.3
72.5°	8034.2	7297.3	5859.8	2174.6	838.0	327.6	127.2	127.2	98.0	81.9	70.2
75°	4539.2	4545.0	3683.7	1538.4	696.1	270.5	102.3	100.9	71.7	62.9	52.6
77.5°	2645.4	2598.6	2483.1	661.0	323.2	122.9	71.7	61.4	49.7	45.3	38.0
80°	1360.0	1118.7	1089.4	239.9	115.6	77.5	49.7	35.1	32.2	29.3	26.3
82.5°	402.2	403.6	359.8	96.5	64.3	51.2	24.9	19.0	17.6	16.1	16.1
85°	27.8	17.6	20.4	29.3	39.4	20.4	1.4	4.4	4.4	5.9	7.3
87.5°	2.9	1.4	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°	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4
2.5°	5263.1	5327.4	5207.5	5210.4	5111.0	5143.1	5026.2	5064.2	4995.5	5048.1	5203.1
5°	3960.1	3974.7	3878.2	3847.5	3862.1	3922.1	3945.5	3838.7	3884.1	3794.8	3789.0
7.5°	2790.2	2807.8	2752.2	2744.9	2850.1	2825.3	2870.7	2760.9	2657.1	2702.5	2619.1
10°	2167.3	2094.1	1980.1	1947.8	1927.4	1940.6	1940.6	1841.1	1826.5	1787.0	1847.0
12.5°	1711.0	1621.8	1513.5	1367.3	1330.8	1327.9	1273.7	1186.0	1158.2	1124.6	1174.3
15°	1243.0	1206.5	1115.8	1033.9	950.6	934.4	846.7	775.1	680.0	666.8	662.5
17.5°	874.5	820.4	819.0	772.1	723.8	691.7	609.8	527.9	491.4	486.9	486.9
20°	655.1	636.1	605.4	599.5	584.9	548.4	475.2	431.4	413.9	415.3	421.2
22.5°	551.3	538.2	510.4	497.2	491.4	459.2	405.1	375.8	367.1	367.1	368.5
25°	492.8	481.1	450.4	429.9	422.6	399.2	356.8	334.9	327.6	327.6	327.6
27.5°	448.9	434.3	402.2	384.6	371.5	345.1	318.8	296.9	289.6	289.6	291.0
30°	418.2	402.2	372.9	349.5	329.0	305.6	283.7	264.7	255.9	254.5	255.9
32.5°	377.3	362.6	333.5	318.8	295.4	267.6	250.0	232.5	223.7	225.2	223.7
35°	293.9	289.6	269.0	273.5	260.3	236.9	220.8	201.8	191.6	190.2	193.0
37.5°	267.6	250.0	226.6	228.2	223.7	215.0	188.6	168.2	160.9	160.9	162.3
40°	247.2	229.6	203.3	190.2	191.6	191.6	163.8	141.9	134.6	133.0	136.0
42.5°	229.6	212.0	182.8	160.9	155.0	162.3	138.9	117.0	109.7	106.7	109.7
45°	217.9	198.9	165.3	140.4	122.9	131.6	114.0	96.5	87.7	87.7	86.3
47.5°	206.2	188.6	152.1	121.4	102.3	98.0	93.6	77.5	68.7	67.3	68.7
50°	196.0	178.4	137.5	105.3	86.3	76.0	76.0	61.4	55.6	52.6	54.1
52.5°	185.7	166.7	124.3	93.6	74.6	61.4	54.1	49.7	45.3	43.9	45.3
55°	171.1	152.1	111.2	80.4	64.3	51.2	42.4	41.0	38.0	35.1	38.0
57.5°	153.6	136.0	98.0	68.7	51.2	39.4	35.1	33.6	30.7	29.3	29.3
59°	143.3	127.2	90.7	60.0	45.3	35.1	32.2	30.7	27.8	24.9	26.3
60°	137.5	124.3	86.3	55.6	41.0	32.2	29.3	27.8	24.9	23.4	24.9
62.5°	121.4	111.2	76.0	45.3	32.2	23.4	20.4	22.0	20.4	19.0	20.4
65°	106.7	98.0	64.3	35.1	24.9	16.1	14.6	19.0	17.6	16.1	17.6
67.5°	95.0	84.9	54.1	26.3	17.6	8.7	10.3	16.1	16.1	14.6	16.1
70°	81.9	73.1	43.9	19.0	8.7	4.4	7.3	11.7	14.6	13.1	14.6
72.5°	67.3	57.0	33.6	13.1	4.4	0.0	4.4	10.3	14.6	13.1	14.6
75°	52.6	42.4	24.9	7.3	0.0	0.0	1.4	8.7	14.6	13.1	14.6
77.5°	38.0	30.7	14.6	1.4	0.0	0.0	1.4	8.7	14.6	13.1	14.6
80°	24.9	22.0	5.9	0.0	0.0	0.0	1.4	8.7	14.6	14.6	16.1
82.5°	16.1	11.7	0.0	0.0	0.0	0.0	2.9	11.7	16.1	17.6	17.6
85°	7.3	0.0	0.0	0.0	0.0	0.0	5.9	14.6	19.0	19.0	19.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	10.3	17.6	22.0	22.0	22.0
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°	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4
2.5°	5229.4	5321.6	5451.7	5652.1	5814.4	6070.3	6266.3	6533.9	6804.4	6886.3	7013.5
5°	3848.9	3967.4	4262.8	4531.9	4701.5	5242.6	5584.8	6124.4	6608.5	6840.9	7094.0
7.5°	2673.2	2813.6	3038.8	3414.6	3771.5	4211.6	4764.4	5381.6	6090.8	6422.7	6779.6
10°	1876.2	2051.7	2369.0	2677.6	3126.6	3544.8	4090.3	4771.7	5554.0	5946.0	6393.5
12.5°	1184.5	1341.0	1760.7	2107.3	2667.4	3152.9	3655.9	4273.0	5179.7	5581.9	6051.3
15°	677.1	808.7	1004.7	1449.2	2070.7	2712.7	3340.0	4056.6	4988.1	5483.9	5991.4
17.5°	504.5	539.6	627.4	878.8	1444.8	2195.0	3049.0	3990.8	5118.3	5700.3	6279.4
20°	424.1	447.5	488.5	587.9	921.3	1690.5	2765.4	4002.5	5539.5	6270.7	6820.5
22.5°	380.2	394.8	428.5	492.8	628.8	1231.3	2433.3	4071.3	6049.8	6971.1	7605.8
25°	333.5	352.5	381.6	437.2	523.5	854.0	2105.8	4224.8	6764.9	7860.2	8456.9
27.5°	296.9	314.4	343.6	394.8	459.2	652.2	1724.1	4356.4	7519.5	8755.2	9243.7
30°	260.3	277.9	307.1	348.0	406.5	527.9	1313.2	4433.9	8252.1	9426.4	9802.3
32.5°	229.6	244.2	272.0	308.6	356.8	447.5	1035.4	4353.5	8812.3	10036.2	10287.8
35°	198.9	216.4	239.9	273.5	315.9	381.6	861.4	4075.7	9293.4	10663.6	10754.3
37.5°	166.7	187.2	212.0	242.7	276.4	350.9	691.7	3768.5	9808.2	11446.0	11296.8
40°	140.4	159.4	182.8	216.4	247.2	321.7	532.3	3441.0	10363.8	12180.1	11889.0
42.5°	114.0	134.6	162.3	193.0	244.2	280.8	412.4	3101.7	10862.5	12819.1	12424.3
45°	90.7	108.2	137.5	176.9	242.7	241.3	318.8	2766.8	11238.4	13275.4	12823.6
47.5°	71.7	86.3	115.6	172.6	223.7	204.7	255.9	2559.2	11633.1	13686.3	13129.2
50°	57.0	71.7	99.4	179.9	196.0	175.5	215.0	2592.8	12014.9	13895.4	13254.9
52.5°	48.3	62.9	86.3	141.9	150.6	153.6	188.6	2747.8	12507.7	14119.2	13505.0
55°	42.4	55.6	73.1	99.4	117.0	137.5	172.6	2860.4	13167.2	14598.8	14056.3
57.5°	33.6	48.3	65.8	84.9	96.5	119.9	159.4	2869.2	13763.8	15214.5	14789.0
59°	30.7	43.9	61.4	80.4	86.3	108.2	150.6	2794.6	13785.8	15306.6	15125.3
60°	27.8	42.4	58.5	74.6	81.9	102.3	143.3	2708.3	13586.9	15160.4	15264.2
62.5°	23.4	36.6	51.2	60.0	70.2	84.9	124.3	2395.3	12623.2	14497.9	15006.9
65°	20.4	32.2	43.9	49.7	58.5	73.1	109.7	1917.1	11558.6	13600.1	14269.8
67.5°	19.0	29.3	38.0	42.4	51.2	67.3	98.0	1354.2	10179.5	12460.8	13162.8
70°	17.6	27.8	33.6	39.4	45.3	57.0	83.3	789.7	7841.2	10463.3	11204.7
72.5°	17.6	26.3	29.3	33.6	39.4	51.2	77.5	427.0	5361.0	7981.6	8939.5
75°	17.6	24.9	26.3	29.3	35.1	46.8	68.7	223.7	3465.8	5545.3	6843.9
77.5°	17.6	23.4	26.3	27.8	33.6	41.0	60.0	140.4	2309.0	3884.1	4625.5
80°	19.0	23.4	24.9	27.8	32.2	38.0	49.7	93.6	1357.1	2336.9	2815.1
82.5°	20.4	23.4	26.3	29.3	33.6	36.6	43.9	58.5	625.9	1545.8	1749.0
85°	22.0	24.9	27.8	30.7	35.1	36.6	41.0	42.4	102.3	697.5	943.3
87.5°	23.4	26.3	29.3	32.2	38.0	38.0	38.0	38.0	35.1	74.6	190.2
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°	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4	6358.4
2.5°	7174.4	7339.7	7455.2	7484.4	7401.1	7363.0	7257.7	7094.0	6994.5	6990.1
5°	7560.4	7948.0	8217.1	8262.4	8101.5	7829.5	7506.3	7089.5	6845.4	6772.2
7.5°	7494.7	8173.2	8606.0	8668.9	8398.4	7879.2	7253.4	6582.2	6316.0	6203.4
10°	7224.1	8051.8	8670.4	8769.9	8408.7	7677.5	6881.9	6133.2	5802.7	5716.4
12.5°	6993.1	7829.5	8379.4	8516.9	8243.4	7513.7	6659.6	5845.1	5491.2	5410.7
15°	6892.2	7566.3	7902.6	7972.8	7927.5	7411.3	6636.2	5801.2	5396.2	5308.4
17.5°	6993.1	7342.6	7385.0	7456.6	7557.6	7401.1	6861.5	6039.6	5602.3	5494.2
20°	7257.7	7148.1	6972.6	7003.3	7234.4	7443.4	7262.1	6567.5	6035.2	5919.7
22.5°	7708.2	7099.8	6702.0	6675.7	6968.2	7585.3	7850.0	7282.6	6665.5	6551.4
25°	8261.0	7221.2	6602.6	6545.6	6864.4	7793.0	8489.1	8158.5	7484.4	7310.4
27.5°	8863.5	7472.7	6602.6	6547.0	6855.6	7977.2	9036.0	8933.6	8332.6	8142.5
30°	9193.9	7680.3	6697.6	6634.8	6963.8	8084.0	9328.5	9622.4	8970.2	8734.7
32.5°	9489.3	7968.5	6883.4	6764.9	7190.5	8242.0	9590.3	10207.4	9477.6	9319.7
35°	9761.3	8277.0	7139.3	7001.8	7488.8	8458.4	9879.8	10821.6	10183.9	9945.6
37.5°	10061.1	8635.3	7538.6	7421.6	7987.5	8879.5	10223.4	11628.8	10878.6	10578.8
40°	10387.2	9050.6	8195.1	8145.4	8780.0	9356.3	10657.7	12490.1	11671.2	11330.5
42.5°	10719.2	9528.8	8999.5	9081.4	9678.0	10024.6	11103.8	13152.6	12320.5	11944.6
45°	11020.5	10140.1	10045.1	10450.1	10725.0	10676.7	11434.3	13619.1	12886.4	12526.7
47.5°	11400.7	11030.6	11310.0	11934.4	11941.7	11386.0	11684.3	14000.7	13373.4	13013.6
50°	11826.2	12082.1	12943.5	13579.5	13408.5	12083.6	11976.8	14452.6	13876.4	13588.4
52.5°	12319.1	13259.3	14452.6	15158.9	14759.7	12844.0	12463.8	14941.0	14674.9	14398.5
55°	12892.3	14062.2	15957.4	16520.4	16118.3	13788.7	13203.8	15603.5	15577.2	15388.5
57.5°	13540.1	14910.3	16829.0	17590.9	17232.6	14897.2	14237.6	16227.9	16128.5	16023.2
59°	14051.9	15346.1	17213.6	18003.3	17786.8	15673.7	14932.3	16616.9	16255.7	16097.7
60°	14361.9	15641.5	17355.5	18058.8	18009.1	16135.8	15372.5	16807.0	16254.3	16034.9
62.5°	15281.8	16157.7	17301.3	17811.7	18006.1	17022.0	16663.7	17016.1	15953.0	15631.3
65°	15609.4	15986.7	16404.9	16342.0	16508.7	16976.7	17488.5	16786.5	15309.6	14851.8
67.5°	14971.7	14110.5	14258.1	13838.4	13756.6	15093.2	17153.6	15663.5	14050.5	13490.4
70°	12620.3	10809.9	10735.3	10928.3	10399.0	12219.6	15403.2	13500.7	11972.5	11337.8
72.5°	9933.9	7639.4	7010.6	7721.3	7705.2	9322.7	12795.7	9580.0	8088.4	8034.2
75°	7812.0	5318.7	4667.9	4783.4	5005.7	6748.9	10191.2	6083.5	4980.8	4539.2
77.5°	5244.1	3768.5	3515.5	3373.7	3613.5	4333.0	6447.6	3299.1	2793.1	2645.4
80°	3022.7	2737.5	3109.0	2822.4	2951.1	2730.2	3207.0	1513.5	1256.2	1360.0
82.5°	1966.9	1558.9	1661.2	1234.3	1687.6	1702.2	1029.5	447.5	378.8	402.2
85°	1229.9	731.2	410.9	292.5	582.1	1070.4	321.7	27.8	32.2	27.8
87.5°	318.8	121.4	51.2	76.0	93.6	83.3	74.6	4.4	1.4	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)