

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: P652068

Luminaire Tested: **GALN-SA8A-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652068  
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-SA8A-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 17169 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

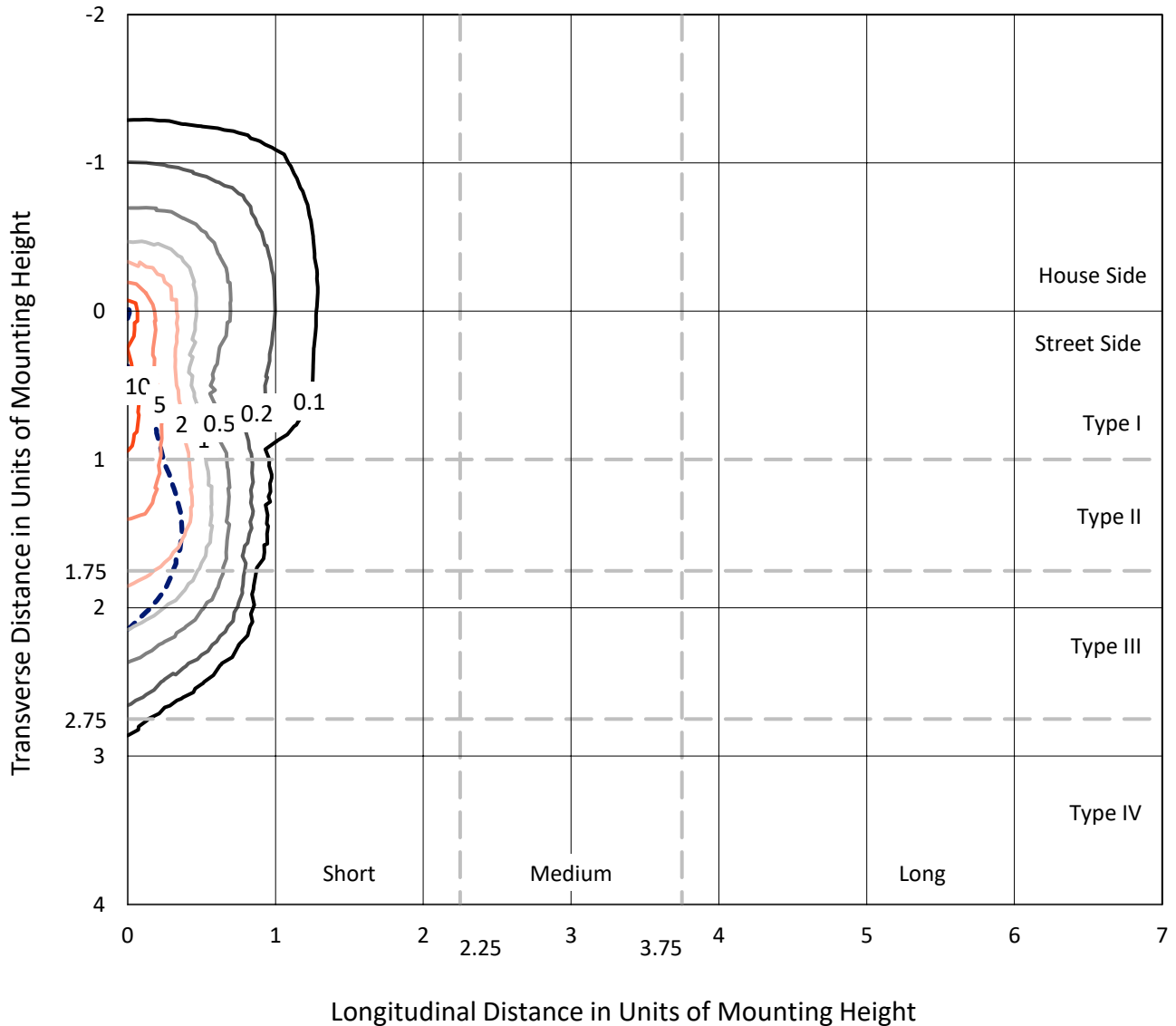
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

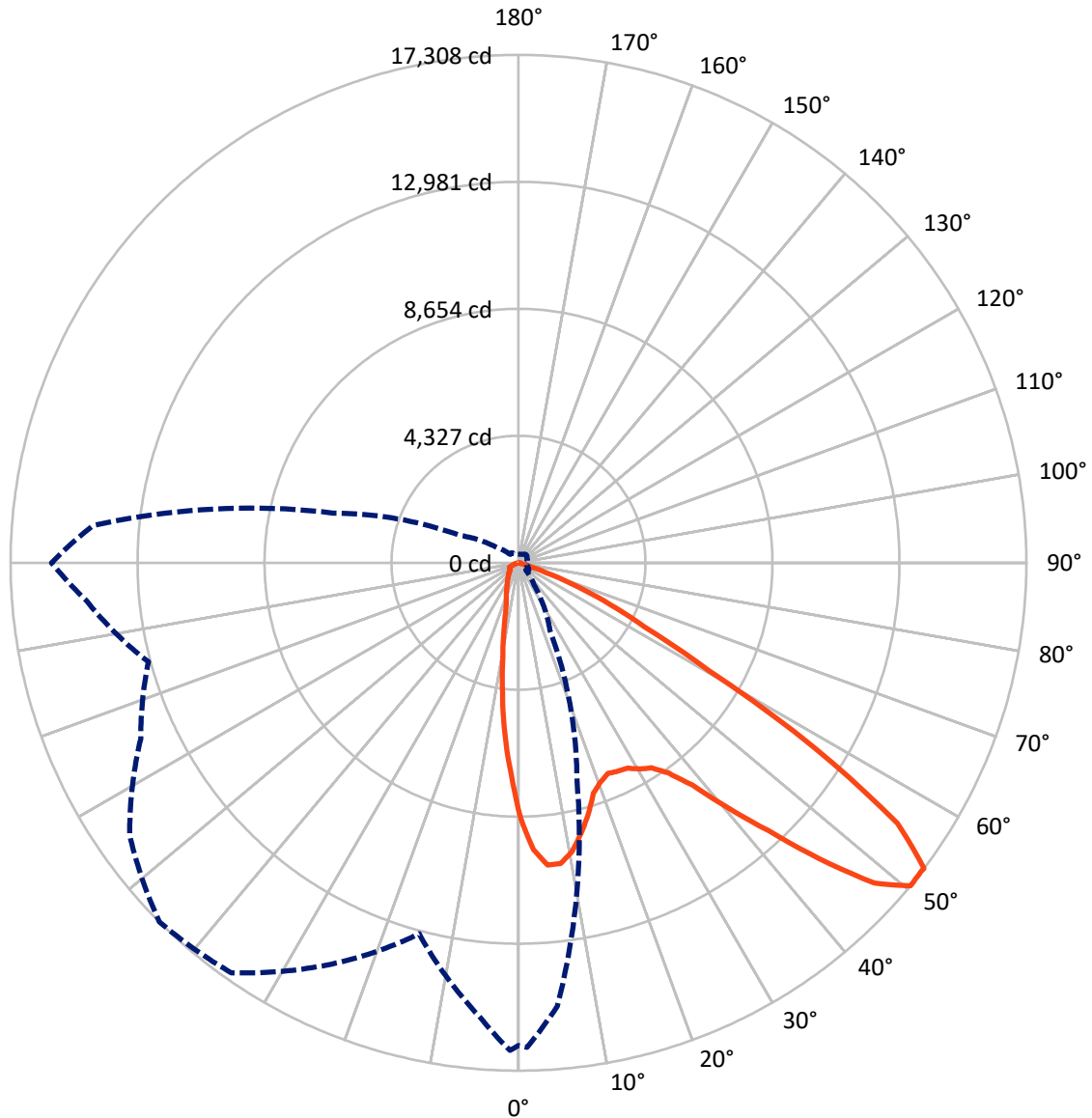
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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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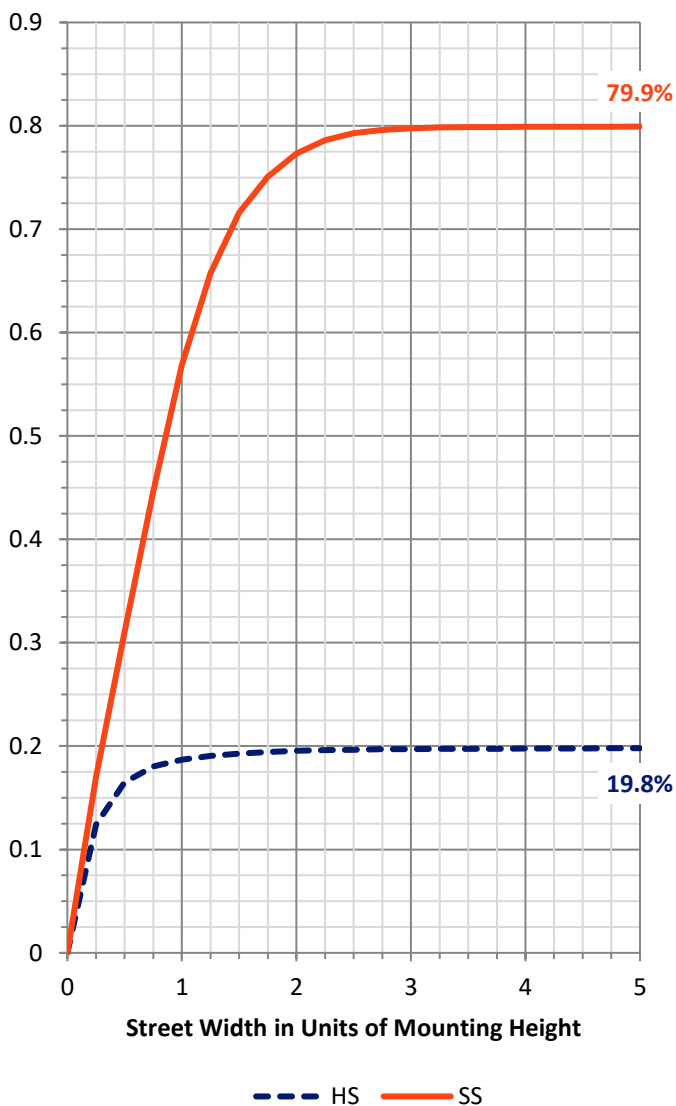
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3439.0	0.0	3439.0
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	13730.1	0.0	13730.1
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	17169.0	0.0	17169.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.6	3.7
10°-20°	1261.3	7.3
20°-30°	1894.9	11.0
30°-40°	2844.2	16.6
40°-50°	3997.3	23.3
50°-60°	4311.7	25.1
60°-70°	2001.9	11.7
70°-80°	188.4	1.1
80°-90°	34.7	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°	17169.0	100.0
0°-180°	17169.0	100.0

**Coefficient of Utilization**



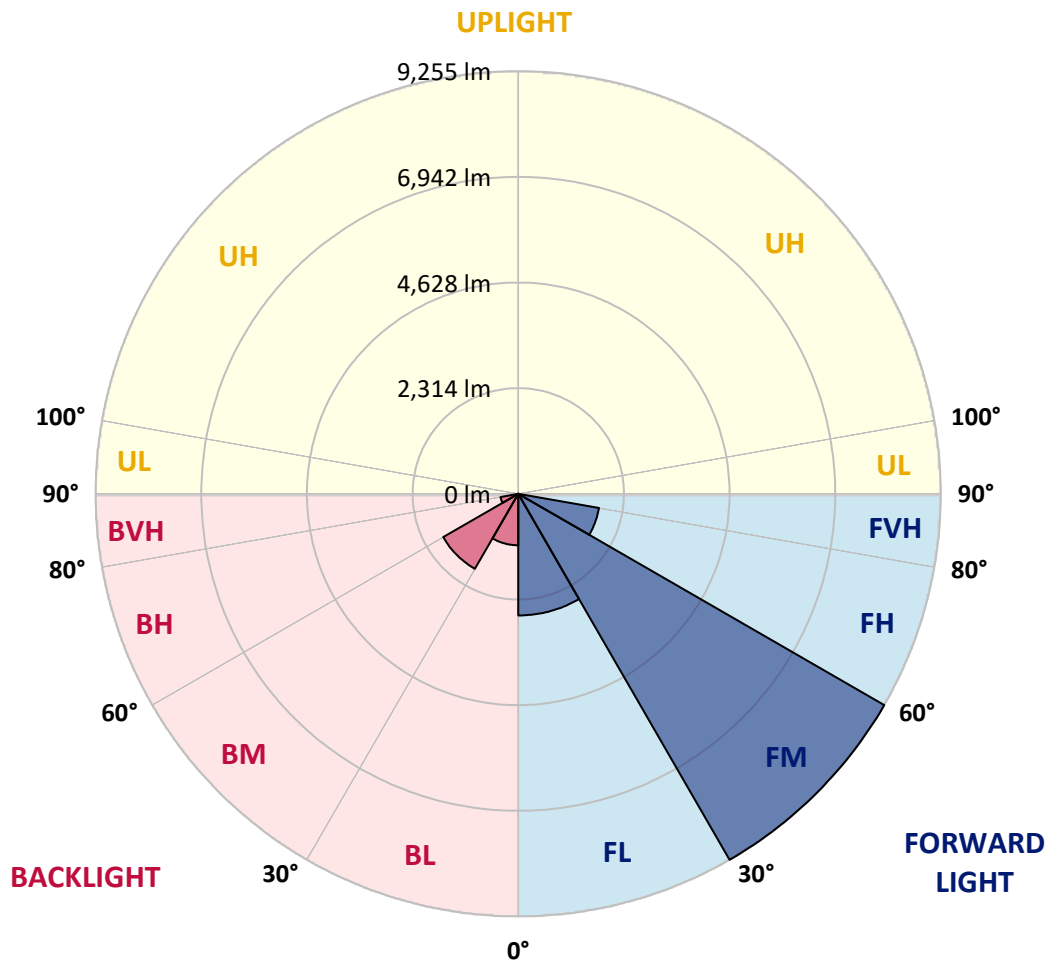
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.6	15.5			
FM (30°-60°)	9255.4	53.9			
FH (60°-80°)	1795.4	10.5			G1/1800
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1127.2	6.6	B3/2500		
BM (30°-60°)	1897.8	11.1	B2/2500		
BH (60°-80°)	394.9	2.3	B1/500		G1/500
BVH (80°-90°)	19.1	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9
2.5°	9050.9	8911.2	8734.1	8587.6	8369.6	7930.2	7811.0	7667.9	7548.6	7388.5	7163.7
5°	8229.9	8185.7	8103.9	7552.1	7153.5	6622.1	6186.1	6002.1	5760.3	5562.7	5419.7
7.5°	7603.1	7426.0	7167.2	6611.9	5974.9	5406.0	4922.3	4639.5	4319.4	4210.4	4016.2
10°	6932.1	6973.0	6591.4	5811.4	5041.5	4581.7	4281.9	4009.4	3719.8	3529.1	3253.2
12.5°	6717.5	6584.6	6291.7	5327.7	4670.2	4241.0	3876.5	3539.3	3232.7	2926.1	2660.4
15°	6857.2	6652.8	6244.0	5225.5	4384.0	3849.3	3392.8	2936.4	2653.6	2261.9	1985.9
17.5°	7357.9	7194.4	6645.9	5334.5	4237.6	3474.6	2796.7	2326.6	1894.0	1539.7	1400.0
20°	8192.5	7960.8	7272.7	5474.2	4019.6	3021.5	2268.7	1689.6	1280.8	1131.0	1052.6
22.5°	9010.1	8884.0	8015.3	5743.3	3825.5	2619.5	1703.2	1137.8	957.2	930.0	878.8
25°	10566.7	10188.6	9149.7	6230.4	3675.5	2241.4	1284.2	916.4	810.7	790.3	797.1
27.5°	11493.4	11176.6	10198.9	6554.0	3508.7	1951.9	1086.7	841.4	769.9	725.5	708.5
30°	12382.4	12014.5	10720.1	6744.7	3151.0	1645.3	964.0	807.4	790.3	725.5	705.1
32.5°	13067.1	12706.0	11472.9	7030.9	3004.5	1447.7	793.7	630.2	585.9	579.1	640.4
35°	14116.3	13731.3	12116.7	7187.6	2892.0	1345.5	688.1	562.0	511.0	490.6	493.9
37.5°	15093.9	14831.6	12712.8	7248.9	2772.9	1314.9	616.5	504.2	459.9	446.2	442.9
40°	15911.5	15325.5	13278.3	7313.6	2721.7	1257.0	572.3	459.9	429.2	408.8	408.8
42.5°	16286.2	15690.0	13911.9	7276.2	2708.1	1165.0	572.3	422.4	398.5	378.1	374.7
45°	16204.4	15962.6	14194.7	7259.1	2708.1	1073.0	521.2	412.2	378.1	350.9	344.1
47.5°	16415.6	16098.8	14548.9	7330.7	2653.6	1008.3	439.4	432.6	357.7	323.6	316.8
50°	16453.1	16514.4	15165.5	7702.0	2534.4	926.5	344.1	425.8	344.1	292.9	286.1
52°	16698.4	16316.8	15352.8	7899.5	2408.4	865.2	289.6	364.5	330.4	272.5	265.7
52.5°	16361.2	16609.8	15397.1	7971.1	2422.0	824.3	279.3	357.7	323.6	272.5	255.5
55°	15983.0	16221.5	15216.5	8124.3	2221.0	647.2	218.0	258.9	292.9	238.4	228.2
57.5°	13891.5	14133.3	13223.8	7439.7	1808.8	456.5	180.6	194.2	258.9	221.4	211.2
60°	12348.3	12174.6	11098.2	6206.5	1284.2	255.5	143.1	149.9	282.7	204.4	201.0
62.5°	11285.5	10914.2	9275.7	4792.9	783.5	170.3	112.4	115.8	218.0	190.7	190.7
65°	8349.2	7933.6	6162.3	2898.8	384.9	119.3	85.2	92.0	136.2	163.5	163.5
67.5°	4765.6	4605.5	2977.2	1308.1	160.1	74.9	64.8	71.6	105.6	132.9	126.1
70°	2190.3	1965.5	1144.6	275.9	74.9	51.1	51.1	57.9	85.2	98.8	92.0
72.5°	640.4	606.4	279.3	44.3	30.7	30.7	34.1	44.3	64.8	74.9	68.1
75°	47.7	30.7	20.4	13.6	13.6	20.4	27.2	44.3	64.8	71.6	57.9
77.5°	3.4	6.8	3.4	3.4	10.3	20.4	30.7	54.5	85.2	88.6	64.8
80°	3.4	3.4	0.0	3.4	10.3	20.4	34.1	61.3	95.4	102.2	54.5
82.5°	0.0	0.0	0.0	3.4	13.6	27.2	40.9	64.8	88.6	109.0	57.9
85°	0.0	0.0	0.0	3.4	20.4	37.5	47.7	17.1	10.3	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°	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9
2.5°	7323.8	7235.3	7201.2	7231.8	7221.7	7211.4	7398.8	7357.9	7351.1	7412.4	7398.8
5°	5498.0	5341.3	5770.5	5596.8	5777.3	5886.3	5906.8	5917.0	6043.0	5910.1	6083.9
7.5°	3917.4	3958.3	3954.9	4070.7	4278.5	4462.4	4571.4	4486.3	4479.5	4462.4	4387.5
10°	3130.5	3059.0	3045.3	3018.1	3082.9	3239.5	3372.4	3266.8	3191.8	3294.0	3263.3
12.5°	2558.2	2459.4	2404.9	2295.9	2299.4	2404.9	2404.9	2404.9	2479.9	2537.8	2582.0
15°	1962.1	1880.4	1880.4	1771.3	1747.5	1750.9	1805.4	1812.2	1931.4	1965.5	1982.6
17.5°	1372.8	1328.5	1379.6	1423.9	1396.6	1403.5	1423.9	1430.7	1447.7	1434.1	1468.1
20°	1056.0	1049.1	1062.8	1141.2	1199.1	1233.2	1209.3	1175.2	1154.8	1107.1	1107.1
22.5°	895.9	909.5	933.3	998.1	1073.0	1093.5	1066.2	987.8	926.5	919.7	923.2
25°	797.1	810.7	848.2	889.1	930.0	964.0	936.8	878.8	844.8	814.2	814.2
27.5°	735.8	742.6	763.0	793.7	827.8	855.0	844.8	814.2	776.7	763.0	732.3
30°	688.1	698.3	722.2	729.0	759.7	773.3	756.2	749.4	725.5	708.5	698.3
32.5°	664.2	660.9	677.8	684.7	688.1	698.3	677.8	688.1	684.7	657.4	647.2
35°	500.7	528.0	572.3	609.7	620.0	633.6	630.2	616.5	579.1	548.4	511.0
37.5°	449.7	466.7	490.6	521.2	562.0	579.1	572.3	538.2	493.9	473.5	466.7
40°	415.6	425.8	446.2	466.7	507.5	538.2	514.4	483.7	449.7	432.6	422.4
42.5°	384.9	388.4	398.5	419.0	449.7	497.4	456.5	415.6	402.0	391.7	384.9
45°	350.9	350.9	364.5	374.7	408.8	453.0	412.2	374.7	367.9	361.0	357.7
47.5°	323.6	327.0	333.8	347.4	374.7	405.4	378.1	347.4	330.4	327.0	320.2
50°	289.6	292.9	306.5	320.2	354.2	371.3	354.2	320.2	303.2	292.9	292.9
52°	262.3	272.5	286.1	313.4	337.2	364.5	344.1	306.5	286.1	275.9	269.1
52.5°	258.9	265.7	279.3	310.0	337.2	361.0	340.6	303.2	279.3	272.5	265.7
55°	231.6	241.9	265.7	303.2	333.8	361.0	333.8	299.7	265.7	248.7	241.9
57.5°	221.4	228.2	258.9	306.5	330.4	361.0	333.8	299.7	265.7	235.1	228.2
60°	211.2	224.8	258.9	296.4	327.0	364.5	337.2	296.4	258.9	221.4	221.4
62.5°	201.0	211.2	255.5	289.6	313.4	350.9	323.6	289.6	248.7	211.2	207.8
65°	173.8	190.7	224.8	241.9	269.1	303.2	275.9	252.0	218.0	187.4	183.9
67.5°	132.9	139.7	166.9	187.4	204.4	235.1	221.4	190.7	166.9	143.1	143.1
70°	92.0	98.8	119.3	129.4	146.5	163.5	153.3	129.4	112.4	98.8	95.4
72.5°	64.8	68.1	74.9	81.7	88.6	95.4	92.0	74.9	64.8	61.3	57.9
75°	51.1	57.9	61.3	57.9	54.5	51.1	51.1	44.3	37.5	34.1	34.1
77.5°	51.1	54.5	51.1	44.3	37.5	34.1	30.7	27.2	20.4	17.1	20.4
80°	44.3	44.3	44.3	37.5	34.1	30.7	27.2	23.9	20.4	17.1	17.1
82.5°	47.7	47.7	44.3	37.5	37.5	30.7	30.7	27.2	23.9	17.1	17.1
85°	0.0	0.0	0.0	6.8	17.1	30.7	30.7	27.2	23.9	20.4	20.4
87.5°	0.0	0.0	0.0	0.0	3.4	6.8	13.6	17.1	20.4	20.4	20.4
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°	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9
2.5°	7521.4	7650.8	7896.1	8141.4	8291.3	8468.4	8788.6	8958.9	9180.4	9289.3	9504.0
5°	6060.1	6366.6	6475.6	6755.0	7054.7	7354.5	7831.4	8356.0	8792.0	9091.8	9480.1
7.5°	4421.6	4493.1	4915.5	5102.9	5593.4	6138.4	6789.1	7449.9	8001.7	8492.2	8788.6
10°	3314.5	3576.8	3842.4	4200.1	4595.3	5157.3	5780.7	6509.7	7225.0	7715.6	8090.3
12.5°	2663.9	2871.6	3225.9	3610.8	4097.9	4469.2	5096.0	5818.2	6744.7	7225.0	7719.0
15°	2016.6	2282.3	2684.3	3082.9	3597.2	3988.9	4622.6	5532.0	6724.3	7385.2	7811.0
17.5°	1495.5	1675.9	2037.1	2483.3	3007.9	3559.7	4414.7	5501.4	6952.5	7739.4	8178.9
20°	1144.6	1205.9	1434.1	1832.6	2401.6	3123.7	4077.5	5634.3	7627.0	8601.2	9047.5
22.5°	926.5	953.8	1042.3	1318.3	1870.1	2742.2	3917.4	5726.2	8386.6	9633.4	10229.5
25°	807.4	800.5	858.4	977.7	1461.3	2384.5	3713.0	6073.7	9316.6	10846.1	11380.9
27.5°	735.8	735.8	763.0	848.2	1212.7	2152.9	3583.6	6322.4	10253.4	11912.3	12201.9
30°	698.3	705.1	783.5	810.7	1008.3	1876.9	3369.0	6574.4	11149.3	12593.6	12992.2
32.5°	647.2	620.0	602.9	671.0	848.2	1628.3	3154.3	6680.1	11874.8	13428.2	13768.9
35°	497.4	483.7	504.2	555.2	729.0	1417.1	2915.9	6799.2	12709.4	14395.6	14463.8
37.5°	449.7	446.2	459.9	504.2	613.2	1233.2	2745.6	6768.6	13346.4	15196.1	15012.2
40°	415.6	415.6	425.8	463.3	548.4	1103.6	2568.4	6741.4	13963.0	16095.4	15557.2
42.5°	388.4	388.4	405.4	429.2	521.2	1018.5	2435.6	6703.9	14480.8	16647.3	15877.4
45°	350.9	361.0	388.4	412.2	528.0	960.6	2336.8	6560.8	14657.9	16640.4	15724.1
47.5°	323.6	337.2	364.5	398.5	476.9	943.6	2268.7	6434.7	14596.6	16231.6	15243.8
50°	292.9	310.0	347.4	405.4	405.4	909.5	2197.1	6547.2	14552.3	15914.9	14783.9
52°	272.5	286.1	333.8	395.2	354.2	838.0	2152.9	6765.2	14732.8	15874.0	14579.6
52.5°	269.1	279.3	323.6	388.4	337.2	824.3	2122.2	6816.3	14790.8	15771.8	14719.2
55°	238.4	252.0	296.4	303.2	275.9	677.8	2023.4	6932.1	14504.6	15570.9	14586.4
57.5°	224.8	231.6	262.3	248.7	238.4	511.0	1740.7	6751.5	12883.1	13830.2	13571.2
60°	207.8	214.6	245.2	194.2	201.0	357.7	1308.1	5862.4	10345.4	11524.0	11990.6
62.5°	201.0	197.6	231.6	156.7	170.3	258.9	923.2	4765.6	7971.1	9486.9	10294.3
65°	177.1	173.8	166.9	132.9	146.5	201.0	551.9	3110.1	5617.2	7177.3	7620.2
67.5°	136.2	143.1	122.6	105.6	122.6	156.7	306.5	1393.2	2946.5	4305.8	4663.4
70°	95.4	102.2	98.8	92.0	109.0	129.4	177.1	476.9	1219.5	2261.9	2493.5
72.5°	57.9	71.6	74.9	78.4	95.4	112.4	126.1	153.3	323.6	800.5	994.7
75°	34.1	47.7	57.9	68.1	78.4	95.4	105.6	109.0	112.4	149.9	241.9
77.5°	23.9	34.1	51.1	64.8	78.4	95.4	112.4	119.3	112.4	105.6	112.4
80°	20.4	34.1	47.7	61.3	81.7	98.8	112.4	112.4	109.0	95.4	102.2
82.5°	20.4	34.1	51.1	64.8	78.4	95.4	109.0	112.4	102.2	95.4	98.8
85°	23.9	37.5	54.5	68.1	85.2	78.4	71.6	57.9	54.5	44.3	47.7
87.5°	23.9	34.1	34.1	37.5	40.9	40.9	40.9	37.5	30.7	27.2	27.2
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°	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9	8706.9
2.5°	9514.1	9786.7	9776.5	9783.3	9742.4	9466.5	9333.7	8996.4	9091.8	9050.9
5°	9878.6	10147.8	10379.5	10352.2	10038.8	9664.1	9108.8	8584.3	8441.1	8229.9
7.5°	9514.1	10161.4	10376.0	10345.4	9882.1	9401.8	8516.1	7991.5	7742.8	7603.1
10°	8935.1	9684.5	9950.2	10004.7	9691.3	8962.4	8148.2	7306.8	7174.0	6932.1
12.5°	8604.7	9149.7	9313.2	9459.7	9350.7	8805.6	7868.9	7061.5	6877.6	6717.5
15°	8335.6	8659.2	8727.3	8894.2	8958.9	8666.0	8015.3	7327.2	6874.2	6857.2
17.5°	8584.3	8451.4	8202.7	8253.8	8458.2	8669.4	8393.4	7851.8	7412.4	7357.9
20°	8996.4	8410.5	7848.5	7974.4	8144.8	8792.0	8965.7	8584.3	8332.1	8192.5
22.5°	9469.9	8482.0	7736.0	7797.3	8120.9	9067.9	9892.3	9681.1	9211.0	9010.1
25°	10345.4	8679.6	7824.6	7865.5	8308.3	9452.8	10730.3	10887.0	10607.6	10566.7
27.5°	11200.4	9190.5	8018.8	7926.8	8403.7	9827.6	11237.9	12079.2	11588.7	11493.4
30°	11636.4	9606.2	8308.3	8151.6	8798.8	10055.8	11544.4	12855.9	12426.7	12382.4
32.5°	12304.1	9984.3	8533.1	8332.1	9020.2	10338.5	12116.7	13704.1	13288.5	13067.1
35°	12583.4	10396.4	9027.0	8792.0	9653.8	10733.7	12409.6	14460.3	14330.9	14116.3
37.5°	13121.6	10839.3	9609.6	9595.9	10420.3	11248.0	12937.7	15489.0	15465.2	15093.9
40°	13165.9	11323.0	10529.3	10958.5	11605.7	12144.0	13400.9	15775.2	16163.5	15911.5
42.5°	13234.0	12171.2	12120.1	12474.4	13029.6	12913.8	13418.0	15843.3	16436.1	16286.2
45°	13264.7	13019.4	13738.2	14392.2	14623.8	13922.1	13257.9	15713.9	16579.1	16204.4
47.5°	13019.4	13748.4	15046.2	16310.0	16378.1	14542.1	13189.7	15581.0	16664.3	16415.6
50°	13053.5	14204.8	16177.1	17308.1	17059.4	15090.5	13084.1	15499.3	16620.0	16453.1
52°	12971.8	14215.1	16337.3	17287.7	17113.9	14787.4	12903.5	15185.9	16579.1	16698.4
52.5°	13063.7	14153.8	16170.3	17301.3	17076.5	14937.3	12879.7	15359.6	16602.9	16361.2
55°	12746.9	13424.8	15192.7	15673.0	15639.0	13557.6	12147.3	14783.9	15979.6	15983.0
57.5°	11520.6	11636.4	11915.7	11905.5	11748.8	10658.7	10389.6	13595.1	14245.7	13891.5
60°	10151.2	8519.5	7766.7	7460.1	7286.3	7109.2	9190.5	12436.9	12498.2	12348.3
62.5°	8771.5	5906.8	4905.3	4820.1	4861.0	5508.2	8884.0	11977.0	11609.2	11285.5
65°	7078.6	4305.8	3563.1	3450.7	3849.3	4547.6	7191.0	9183.7	8618.3	8349.2
67.5°	4445.4	3140.7	2408.4	2197.1	2677.5	3130.5	4724.7	5770.5	5136.9	4765.6
70°	2636.6	1754.3	1090.0	977.7	1100.3	1669.1	2646.8	2878.4	2381.1	2190.3
72.5°	1039.0	643.8	303.2	258.9	269.1	585.9	974.2	950.4	718.7	640.4
75°	279.3	194.2	105.6	85.2	71.6	109.0	156.7	102.2	37.5	47.7
77.5°	129.4	115.8	92.0	71.6	54.5	40.9	20.4	6.8	6.8	3.4
80°	112.4	98.8	85.2	71.6	54.5	34.1	17.1	3.4	3.4	3.4
82.5°	105.6	92.0	78.4	64.8	51.1	34.1	17.1	3.4	0.0	0.0
85°	44.3	57.9	64.8	61.3	54.5	34.1	17.1	3.4	0.0	0.0
87.5°	23.9	20.4	17.1	13.6	10.3	6.8	6.8	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)