

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: P647448

Luminaire Tested: **GALN-SA5D-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647448  
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-SA5D-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA 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: 16769.5 lumens  
Efficiency: N/A  
Efficacy: 54.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

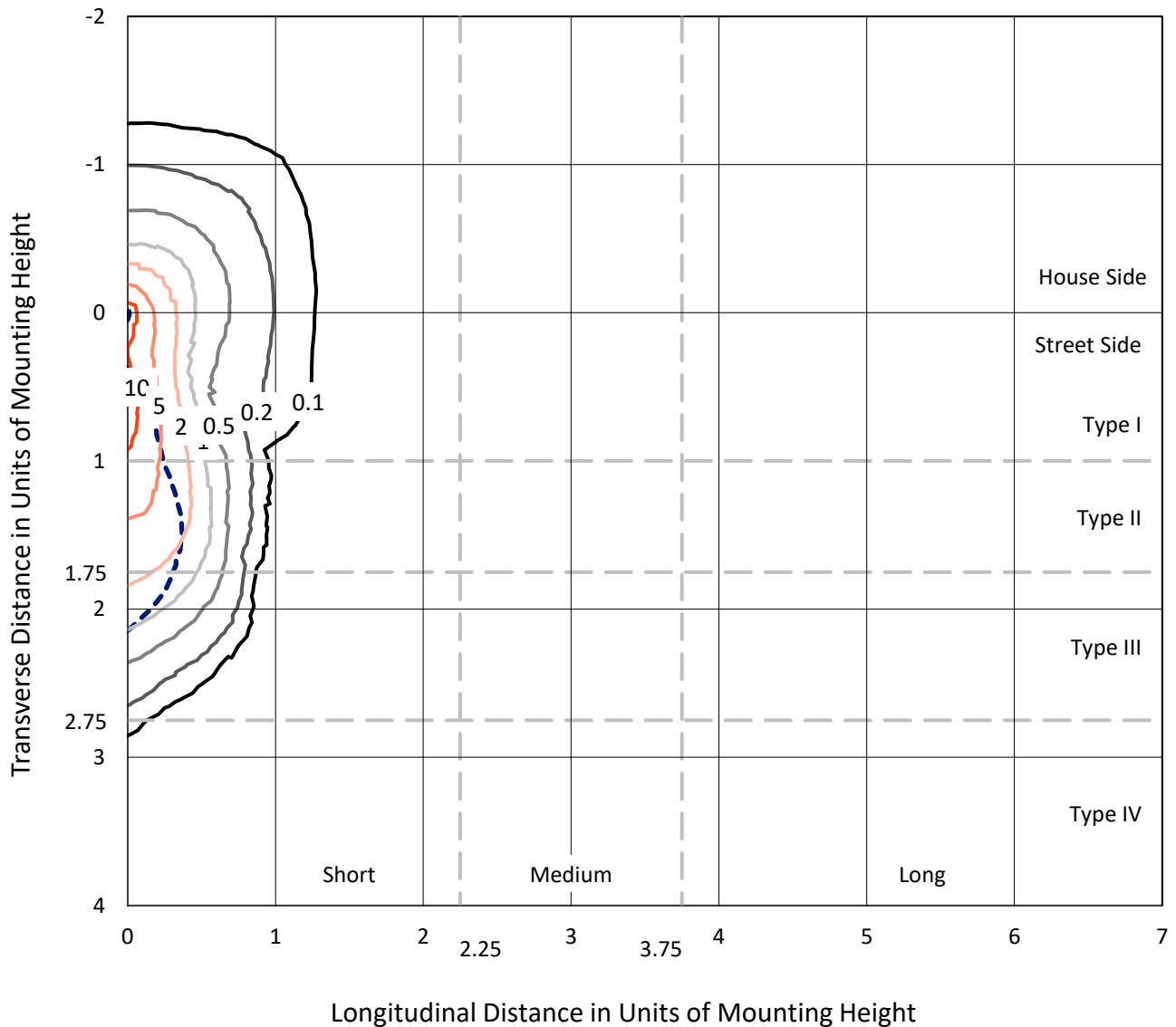
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

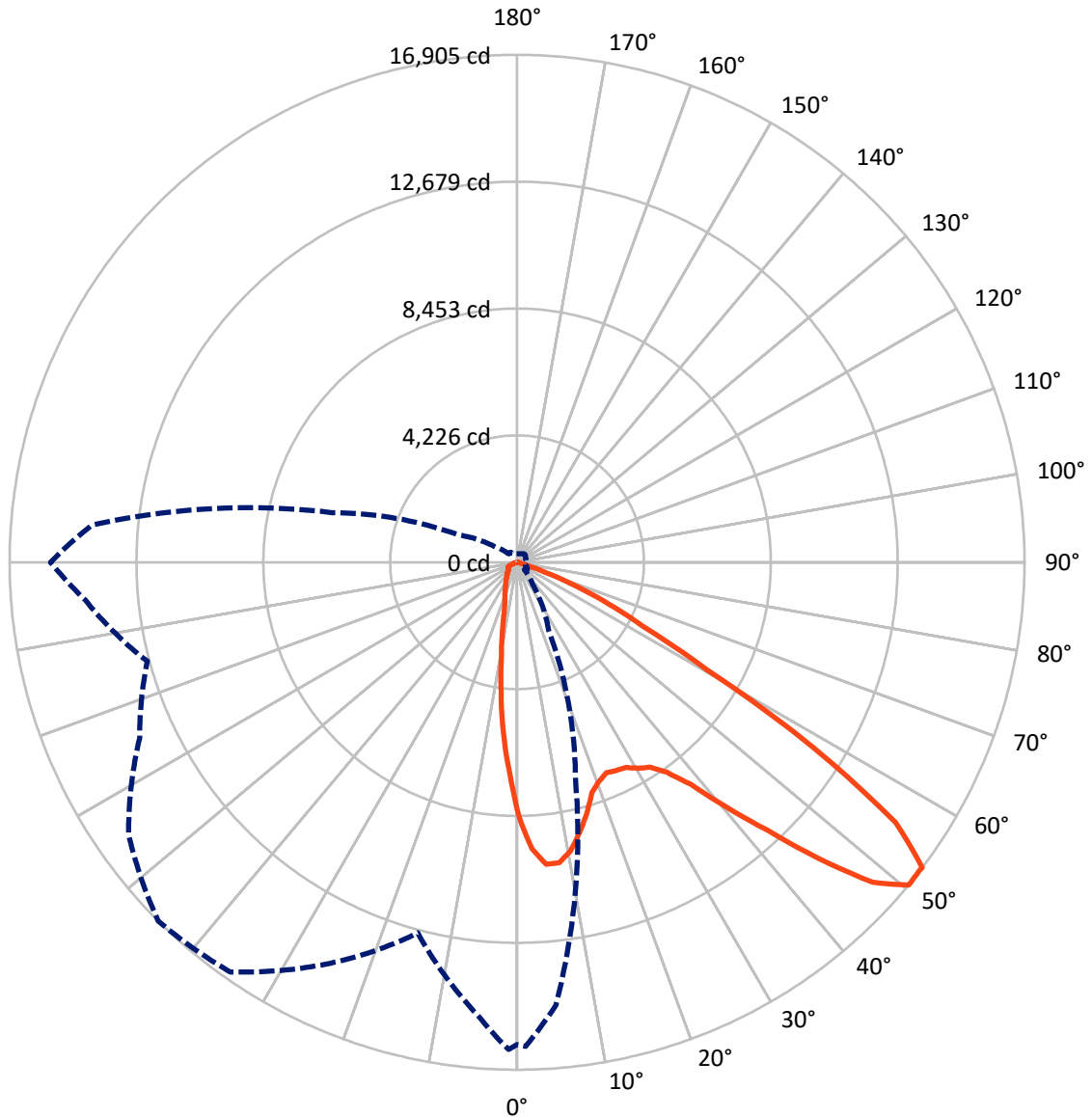
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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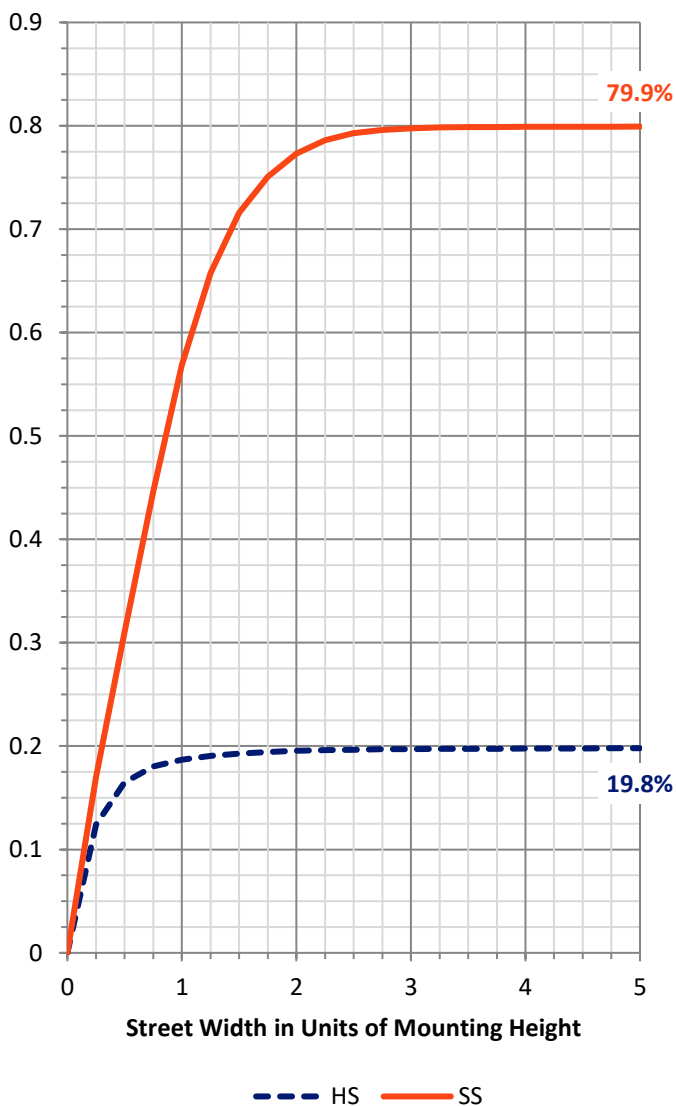
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3358.9	0.0	3358.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	13410.6	0.0	13410.6
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	16769.5	0.0	16769.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	619.9	3.7
10°-20°	1232.0	7.3
20°-30°	1850.8	11.0
30°-40°	2778.0	16.6
40°-50°	3904.3	23.3
50°-60°	4211.4	25.1
60°-70°	1955.4	11.7
70°-80°	184.0	1.1
80°-90°	33.9	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°	16769.5	100.0
0°-180°	16769.5	100.0

**Coefficient of Utilization**



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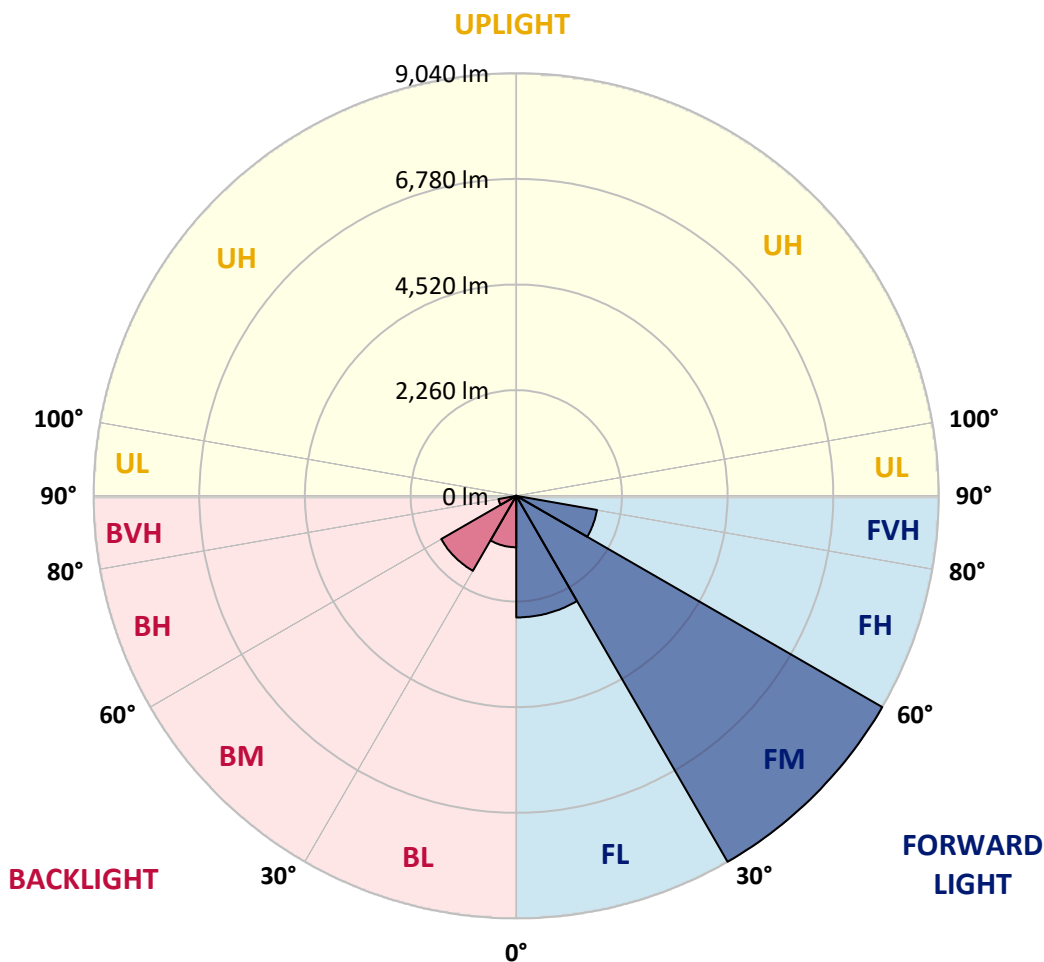
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2601.6	15.5			
FM (30°-60°)	9040.0	53.9			
FH (60°-80°)	1753.6	10.5			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1101.0	6.6	B3/2500		
BM (30°-60°)	1853.6	11.1	B2/2500		
BH (60°-80°)	385.7	2.3	B1/500		G1/500
BVH (80°-90°)	18.6	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°	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2
2.5°	8840.3	8703.9	8530.9	8387.8	8174.8	7745.7	7629.2	7489.5	7373.0	7216.7	6997.0
5°	8038.4	7995.2	7915.3	7376.3	6987.1	6468.0	6042.2	5862.5	5626.2	5433.2	5293.5
7.5°	7426.3	7253.2	7000.4	6458.0	5835.9	5280.2	4807.8	4531.6	4218.9	4112.4	3922.8
10°	6770.8	6810.7	6438.1	5676.1	4924.2	4475.1	4182.2	3916.1	3633.3	3446.9	3177.4
12.5°	6561.1	6431.4	6145.3	5203.7	4561.5	4142.3	3786.4	3456.9	3157.5	2858.0	2598.5
15°	6697.6	6498.0	6098.7	5103.9	4282.1	3759.7	3313.9	2868.1	2591.9	2209.2	1939.7
17.5°	7186.7	7027.0	6491.3	5210.3	4139.0	3393.7	2731.6	2272.4	1849.9	1503.9	1367.4
20°	8001.9	7775.6	7103.5	5346.8	3926.0	2951.2	2215.9	1650.3	1251.0	1104.7	1028.1
22.5°	8800.4	8677.3	7828.8	5609.6	3736.4	2558.6	1663.6	1111.3	934.9	908.3	858.4
25°	10320.9	9951.5	8936.8	6085.4	3590.1	2189.3	1254.4	895.0	791.8	771.9	778.5
27.5°	11225.9	10916.4	9961.6	6401.5	3427.0	1906.4	1061.4	821.8	751.9	708.7	692.0
30°	12094.3	11735.0	10470.6	6587.8	3077.7	1607.0	941.6	788.6	771.9	708.7	688.7
32.5°	12763.1	12410.4	11205.9	6867.3	2934.6	1414.0	775.2	615.5	572.3	565.6	625.5
35°	13787.8	13411.9	11834.7	7020.3	2824.8	1314.3	672.1	549.0	499.1	479.1	482.4
37.5°	14742.7	14486.5	12417.0	7080.2	2708.3	1284.3	602.2	492.4	449.2	435.9	432.5
40°	15541.2	14968.9	12969.3	7143.5	2658.4	1227.7	559.0	449.2	419.2	399.3	399.3
42.5°	15907.2	15325.0	13588.2	7106.8	2645.1	1137.9	559.0	412.6	389.3	369.3	366.0
45°	15827.3	15591.2	13864.3	7090.2	2645.1	1048.0	509.0	402.6	369.3	342.7	336.1
47.5°	16033.6	15724.2	14210.4	7160.1	2591.9	984.9	429.2	422.6	349.4	316.1	309.4
50°	16070.2	16130.1	14812.6	7522.8	2475.5	905.0	336.1	415.9	336.1	286.1	279.5
52°	16309.8	15937.2	14995.5	7715.7	2352.3	845.1	282.8	356.0	322.8	266.1	259.5
52.5°	15980.4	16223.3	15038.8	7785.6	2365.6	805.2	272.8	349.4	316.1	266.1	249.5
55°	15611.1	15844.0	14862.5	7935.3	2169.3	632.2	213.0	252.8	286.1	232.9	222.9
57.5°	13568.2	13804.4	12916.1	7266.6	1766.8	445.8	176.3	189.6	252.8	216.3	206.3
60°	12061.0	11891.3	10839.9	6062.1	1254.4	249.5	139.8	146.4	276.2	199.7	196.3
62.5°	11022.9	10660.2	9059.9	4681.3	765.2	166.4	109.8	113.1	213.0	186.4	186.4
65°	8154.9	7749.0	6018.8	2831.4	376.0	116.4	83.2	89.8	133.1	159.7	159.7
67.5°	4654.7	4498.3	2908.0	1277.6	156.4	73.2	63.2	69.8	103.1	129.7	123.1
70°	2139.4	1919.8	1118.0	269.5	73.2	49.9	49.9	56.5	83.2	96.5	89.8
72.5°	625.5	592.3	272.8	43.2	29.9	29.9	33.3	43.2	63.2	73.2	66.6
75°	46.6	29.9	20.0	13.3	13.3	20.0	26.6	43.2	63.2	69.8	56.5
77.5°	3.3	6.7	3.3	3.3	9.9	20.0	29.9	53.2	83.2	86.5	63.2
80°	3.3	3.3	0.0	3.3	9.9	20.0	33.3	59.9	93.2	99.8	53.2
82.5°	0.0	0.0	0.0	3.3	13.3	26.6	39.9	63.2	86.5	106.5	56.5
85°	0.0	0.0	0.0	3.3	20.0	36.6	46.6	16.6	9.9	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°	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2
2.5°	7153.4	7066.9	7033.6	7063.6	7053.6	7043.6	7226.6	7186.7	7180.0	7239.9	7226.6
5°	5370.0	5217.0	5636.3	5466.5	5642.9	5749.3	5769.3	5779.3	5902.4	5772.7	5942.3
7.5°	3826.3	3866.1	3862.9	3976.0	4178.9	4358.6	4465.1	4381.9	4375.2	4358.6	4285.4
10°	3057.7	2987.8	2974.5	2947.8	3011.1	3164.2	3293.9	3190.7	3117.6	3217.3	3187.4
12.5°	2498.7	2402.2	2349.0	2242.5	2245.9	2349.0	2349.0	2349.0	2422.2	2478.7	2522.0
15°	1916.5	1836.6	1836.6	1730.1	1706.9	1710.2	1763.4	1770.0	1886.5	1919.8	1936.4
17.5°	1340.9	1297.6	1347.5	1390.8	1364.1	1370.8	1390.8	1397.4	1414.0	1400.7	1434.0
20°	1031.4	1024.8	1038.1	1114.6	1171.1	1204.4	1181.2	1147.9	1127.9	1081.3	1081.3
22.5°	875.1	888.4	911.6	974.8	1048.0	1068.0	1041.4	964.9	905.0	898.3	901.7
25°	778.5	791.8	828.5	868.4	908.3	941.6	914.9	858.4	825.1	795.2	795.2
27.5°	718.6	725.3	745.3	775.2	808.5	835.1	825.1	795.2	758.6	745.3	715.3
30°	672.1	682.1	705.3	712.0	742.0	755.3	738.6	731.9	708.7	692.0	682.1
32.5°	648.8	645.5	662.1	668.8	672.1	682.1	662.1	672.1	668.8	642.1	632.2
35°	489.1	515.7	559.0	595.5	605.6	618.9	615.5	602.2	565.6	535.7	499.1
37.5°	439.2	455.8	479.1	509.0	549.0	565.6	559.0	525.7	482.4	462.4	455.8
40°	405.9	415.9	435.9	455.8	495.7	525.7	502.4	472.5	439.2	422.6	412.6
42.5°	376.0	379.3	389.3	409.3	439.2	485.8	445.8	405.9	392.6	382.7	376.0
45°	342.7	342.7	356.0	366.0	399.3	442.6	402.6	366.0	359.3	352.7	349.4
47.5°	316.1	319.4	326.0	339.4	366.0	396.0	369.3	339.4	322.8	319.4	312.7
50°	282.8	286.1	299.4	312.7	346.0	362.7	346.0	312.7	296.1	286.1	286.1
52°	256.2	266.1	279.5	306.1	329.4	356.0	336.1	299.4	279.5	269.5	262.9
52.5°	252.8	259.5	272.8	302.8	329.4	352.7	332.7	296.1	272.8	266.1	259.5
55°	226.2	236.2	259.5	296.1	326.0	352.7	326.0	292.8	259.5	242.9	236.2
57.5°	216.3	222.9	252.8	299.4	322.8	352.7	326.0	292.8	259.5	229.6	222.9
60°	206.3	219.6	252.8	289.5	319.4	356.0	329.4	289.5	252.8	216.3	216.3
62.5°	196.3	206.3	249.5	282.8	306.1	342.7	316.1	282.8	242.9	206.3	203.0
65°	169.7	186.4	219.6	236.2	262.9	296.1	269.5	246.2	213.0	183.0	179.7
67.5°	129.7	136.4	163.0	183.0	199.7	229.6	216.3	186.4	163.0	139.8	139.8
70°	89.8	96.5	116.4	126.5	143.1	159.7	149.7	126.5	109.8	96.5	93.2
72.5°	63.2	66.6	73.2	79.9	86.5	93.2	89.8	73.2	63.2	59.9	56.5
75°	49.9	56.5	59.9	56.5	53.2	49.9	49.9	43.2	36.6	33.3	33.3
77.5°	49.9	53.2	49.9	43.2	36.6	33.3	29.9	26.6	20.0	16.6	20.0
80°	43.2	43.2	43.2	36.6	33.3	29.9	26.6	23.3	20.0	16.6	16.6
82.5°	46.6	46.6	43.2	36.6	36.6	29.9	29.9	26.6	23.3	16.6	16.6
85°	0.0	0.0	0.0	6.7	16.6	29.9	29.9	26.6	23.3	20.0	20.0
87.5°	0.0	0.0	0.0	0.0	3.3	6.7	13.3	16.6	20.0	20.0	20.0
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°	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2
2.5°	7346.4	7472.8	7712.4	7951.9	8098.3	8271.4	8584.1	8750.5	8966.8	9073.2	9282.8
5°	5919.0	6218.5	6325.0	6597.8	6890.6	7183.4	7649.2	8161.5	8587.5	8880.2	9259.5
7.5°	4318.6	4388.6	4801.1	4984.1	5463.2	5995.6	6631.1	7276.5	7815.5	8294.6	8584.1
10°	3237.3	3493.5	3753.1	4102.4	4488.4	5037.4	5646.2	6358.2	7056.9	7536.1	7902.0
12.5°	2601.8	2804.8	3150.9	3526.8	4002.6	4365.2	4977.5	5682.8	6587.8	7056.9	7539.4
15°	1969.7	2229.2	2621.8	3011.1	3513.5	3896.1	4515.0	5403.3	6567.8	7213.3	7629.2
17.5°	1460.6	1636.9	1989.7	2425.5	2937.9	3476.9	4312.0	5373.4	6790.7	7559.3	7988.6
20°	1118.0	1177.8	1400.7	1790.0	2345.6	3051.0	3982.7	5503.2	7449.5	8401.1	8836.9
22.5°	905.0	931.6	1018.1	1287.6	1826.6	2678.4	3826.3	5593.0	8191.5	9409.2	9991.5
25°	788.6	781.9	838.4	954.9	1427.3	2329.0	3626.6	5932.3	9099.8	10593.8	11116.1
27.5°	718.6	718.6	745.3	828.5	1184.4	2102.7	3500.2	6175.2	10014.8	11635.1	11918.0
30°	682.1	688.7	765.2	791.8	984.9	1833.2	3290.6	6421.5	10889.8	12300.5	12689.8
32.5°	632.2	605.6	588.9	655.4	828.5	1590.4	3080.9	6524.6	11598.5	13115.7	13448.4
35°	485.8	472.5	492.4	542.3	712.0	1384.1	2848.1	6641.0	12413.7	14060.6	14127.2
37.5°	439.2	435.9	449.2	492.4	598.9	1204.4	2681.7	6611.1	13035.9	14842.5	14662.8
40°	405.9	405.9	415.9	452.5	535.7	1078.0	2508.7	6584.5	13638.1	15720.9	15195.2
42.5°	379.3	379.3	396.0	419.2	509.0	994.8	2378.9	6547.9	14143.8	16259.9	15507.9
45°	342.7	352.7	379.3	402.6	515.7	938.3	2282.4	6408.2	14316.8	16253.3	15358.2
47.5°	316.1	329.4	356.0	389.3	465.8	921.6	2215.9	6285.1	14256.9	15853.9	14889.1
50°	286.1	302.8	339.4	396.0	396.0	888.4	2146.0	6394.8	14213.7	15544.6	14439.9
52°	266.1	279.5	326.0	385.9	346.0	818.5	2102.7	6607.7	14390.1	15504.7	14240.3
52.5°	262.9	272.8	316.1	379.3	329.4	805.2	2072.8	6657.7	14446.6	15404.8	14376.7
55°	232.9	246.2	289.5	296.1	269.5	662.1	1976.4	6770.8	14167.1	15208.5	14246.9
57.5°	219.6	226.2	256.2	242.9	232.9	499.1	1700.2	6594.4	12583.4	13508.3	13255.5
60°	203.0	209.6	239.5	189.6	196.3	349.4	1277.6	5726.1	10104.6	11255.9	11711.6
62.5°	196.3	193.0	226.2	153.1	166.4	252.8	901.7	4654.7	7785.6	9266.2	10054.7
65°	173.0	169.7	163.0	129.7	143.1	196.3	539.0	3037.7	5486.5	7010.4	7442.9
67.5°	133.1	139.8	119.8	103.1	119.8	153.1	299.4	1360.8	2878.0	4205.6	4554.9
70°	93.2	99.8	96.5	89.8	106.5	126.5	173.0	465.8	1191.1	2209.2	2435.5
72.5°	56.5	69.8	73.2	76.5	93.2	109.8	123.1	149.7	316.1	781.9	971.5
75°	33.3	46.6	56.5	66.6	76.5	93.2	103.1	106.5	109.8	146.4	236.2
77.5°	23.3	33.3	49.9	63.2	76.5	93.2	109.8	116.4	109.8	103.1	109.8
80°	20.0	33.3	46.6	59.9	79.9	96.5	109.8	109.8	106.5	93.2	99.8
82.5°	20.0	33.3	49.9	63.2	76.5	93.2	106.5	109.8	99.8	93.2	96.5
85°	23.3	36.6	53.2	66.6	83.2	76.5	69.8	56.5	53.2	43.2	46.6
87.5°	23.3	33.3	33.3	36.6	39.9	39.9	39.9	36.6	29.9	26.6	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647448

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2	8504.2
2.5°	9292.8	9558.9	9549.0	9555.7	9515.7	9246.2	9116.5	8787.1	8880.2	8840.3
5°	9648.8	9911.7	10137.9	10111.3	9805.2	9439.2	8896.8	8384.4	8244.8	8038.4
7.5°	9292.8	9925.0	10134.6	10104.6	9652.1	9183.0	8318.0	7805.6	7562.7	7426.3
10°	8727.2	9459.2	9718.7	9771.9	9465.8	8753.8	7958.6	7136.8	7007.0	6770.8
12.5°	8404.4	8936.8	9096.5	9239.6	9133.1	8600.7	7685.8	6897.2	6717.6	6561.1
15°	8141.6	8457.7	8524.2	8687.2	8750.5	8464.3	7828.8	7156.8	6714.2	6697.6
17.5°	8384.4	8254.7	8011.8	8061.8	8261.4	8467.7	8198.2	7669.2	7239.9	7186.7
20°	8787.1	8214.8	7665.8	7788.9	7955.3	8587.5	8757.2	8384.4	8138.3	8001.9
22.5°	9249.6	8284.7	7556.0	7615.9	7931.9	8856.9	9662.1	9455.8	8996.7	8800.4
25°	10104.6	8477.6	7642.5	7682.5	8115.0	9232.9	10480.6	10633.6	10360.8	10320.9
27.5°	10939.8	8976.7	7832.2	7742.3	8208.1	9598.9	10976.3	11798.2	11319.0	11225.9
30°	11365.6	9382.6	8115.0	7961.9	8594.1	9821.8	11275.8	12556.7	12137.5	12094.3
32.5°	12017.7	9752.0	8334.6	8138.3	8810.4	10098.0	11834.7	13385.2	12979.3	12763.1
35°	12290.6	10154.6	8817.0	8587.5	9429.2	10483.9	12120.9	14123.8	13997.5	13787.8
37.5°	12816.3	10587.1	9386.0	9372.7	10177.8	10986.4	12636.6	15128.7	15105.4	14742.7
40°	12859.5	11059.6	10284.3	10703.5	11335.6	11861.4	13089.1	15408.1	15787.5	15541.2
42.5°	12926.1	11888.0	11838.1	12184.1	12726.4	12613.3	13105.8	15474.7	16053.6	15907.2
45°	12956.0	12716.5	13418.5	14057.3	14283.6	13598.1	12949.3	15348.3	16193.4	15827.3
47.5°	12716.5	13428.4	14696.1	15930.5	15997.1	14203.7	12882.9	15218.5	16276.5	16033.6
50°	12749.7	13874.3	15800.8	16905.4	16662.5	14739.3	12779.7	15138.7	16233.3	16070.2
52°	12669.9	13884.3	15957.1	16885.4	16715.7	14443.3	12603.3	14832.5	16193.4	16309.8
52.5°	12759.7	13824.4	15794.1	16898.7	16679.2	14589.6	12580.1	15002.2	16216.6	15980.4
55°	12450.2	13112.4	14839.2	15308.4	15275.1	13242.2	11864.7	14439.9	15607.8	15611.1
57.5°	11252.5	11365.6	11638.4	11628.5	11475.4	10410.7	10147.9	13278.7	13914.2	13568.2
60°	9915.0	8321.3	7585.9	7286.5	7116.8	6943.8	8976.7	12147.5	12207.4	12061.0
62.5°	8567.5	5769.3	4791.1	4707.9	4747.9	5380.1	8677.3	11698.3	11339.0	11022.9
65°	6913.9	4205.6	3480.2	3370.4	3759.7	4441.8	7023.7	8970.0	8417.7	8154.9
67.5°	4342.0	3067.6	2352.3	2146.0	2615.1	3057.7	4614.8	5636.3	5017.4	4654.7
70°	2575.2	1713.5	1064.7	954.9	1074.7	1630.3	2585.2	2811.4	2325.7	2139.4
72.5°	1014.8	628.8	296.1	252.8	262.9	572.3	951.6	928.2	702.0	625.5
75°	272.8	189.6	103.1	83.2	69.8	106.5	153.1	99.8	36.6	46.6
77.5°	126.5	113.1	89.8	69.8	53.2	39.9	20.0	6.7	6.7	3.3
80°	109.8	96.5	83.2	69.8	53.2	33.3	16.6	3.3	3.3	3.3
82.5°	103.1	89.8	76.5	63.2	49.9	33.3	16.6	3.3	0.0	0.0
85°	43.2	56.5	63.2	59.9	53.2	33.3	16.6	3.3	0.0	0.0
87.5°	23.3	20.0	16.6	13.3	9.9	6.7	6.7	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)