

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: P647668

Luminaire Tested: **GALN-SA9D-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647668  
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-SA9D-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 30356.9 lumens  
Efficiency: N/A  
Efficacy: 55.0 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

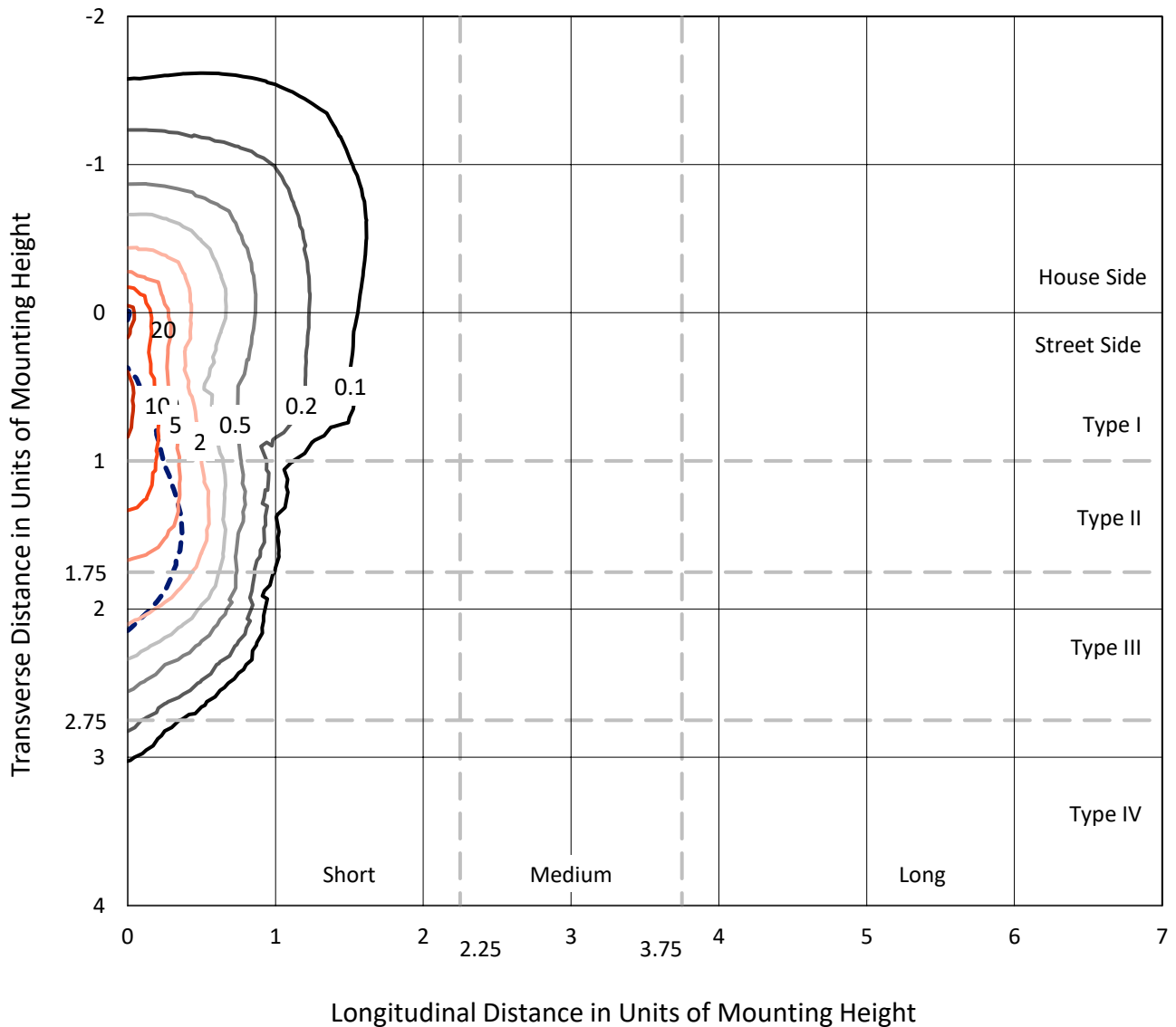
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

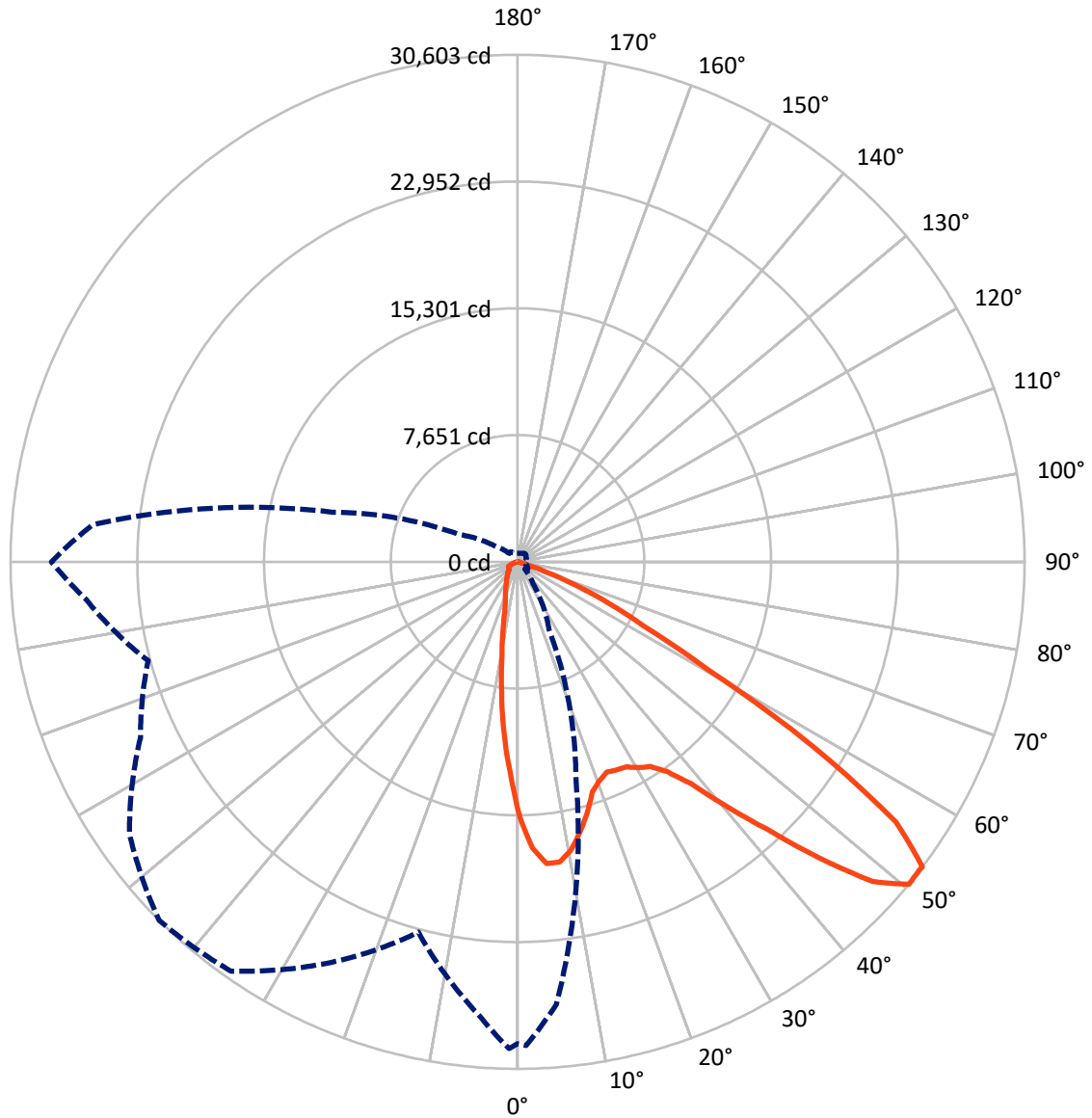
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 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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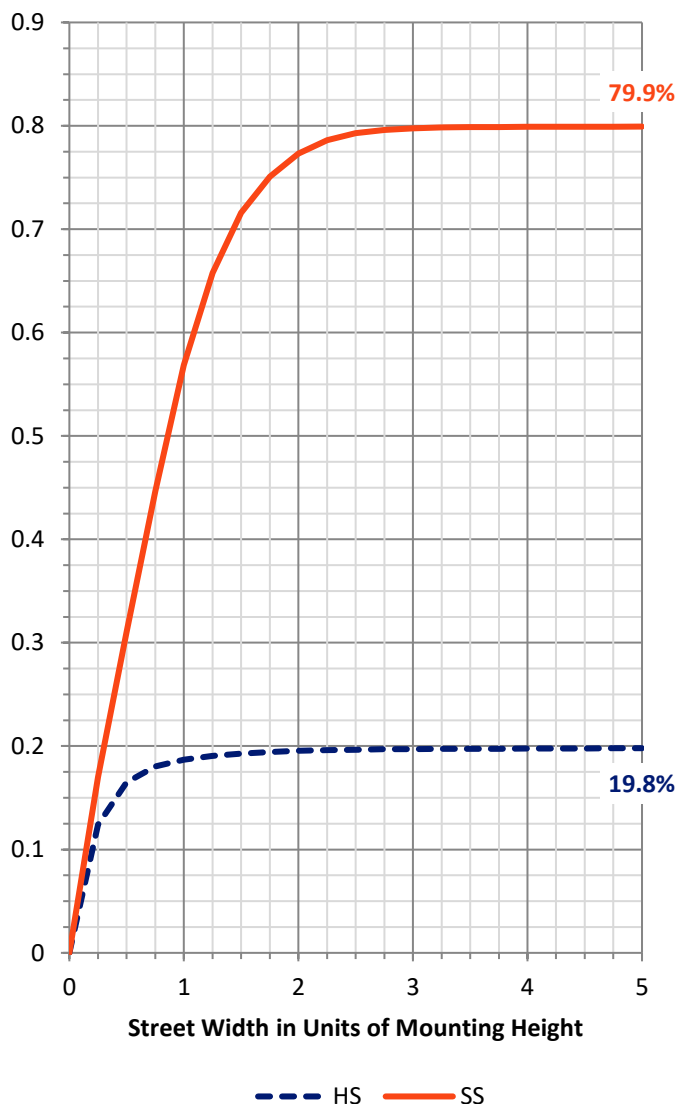
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6080.5	0.0	6080.5
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	24276.4	0.0	24276.4
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	30356.9	0.0	30356.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1122.1	3.7
10°-20°	2230.2	7.3
20°-30°	3350.4	11.0
30°-40°	5028.8	16.6
40°-50°	7067.6	23.3
50°-60°	7623.7	25.1
60°-70°	3539.7	11.7
70°-80°	333.0	1.1
80°-90°	61.4	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°	30356.9	100.0
0°-180°	30356.9	100.0

**Coefficient of Utilization**



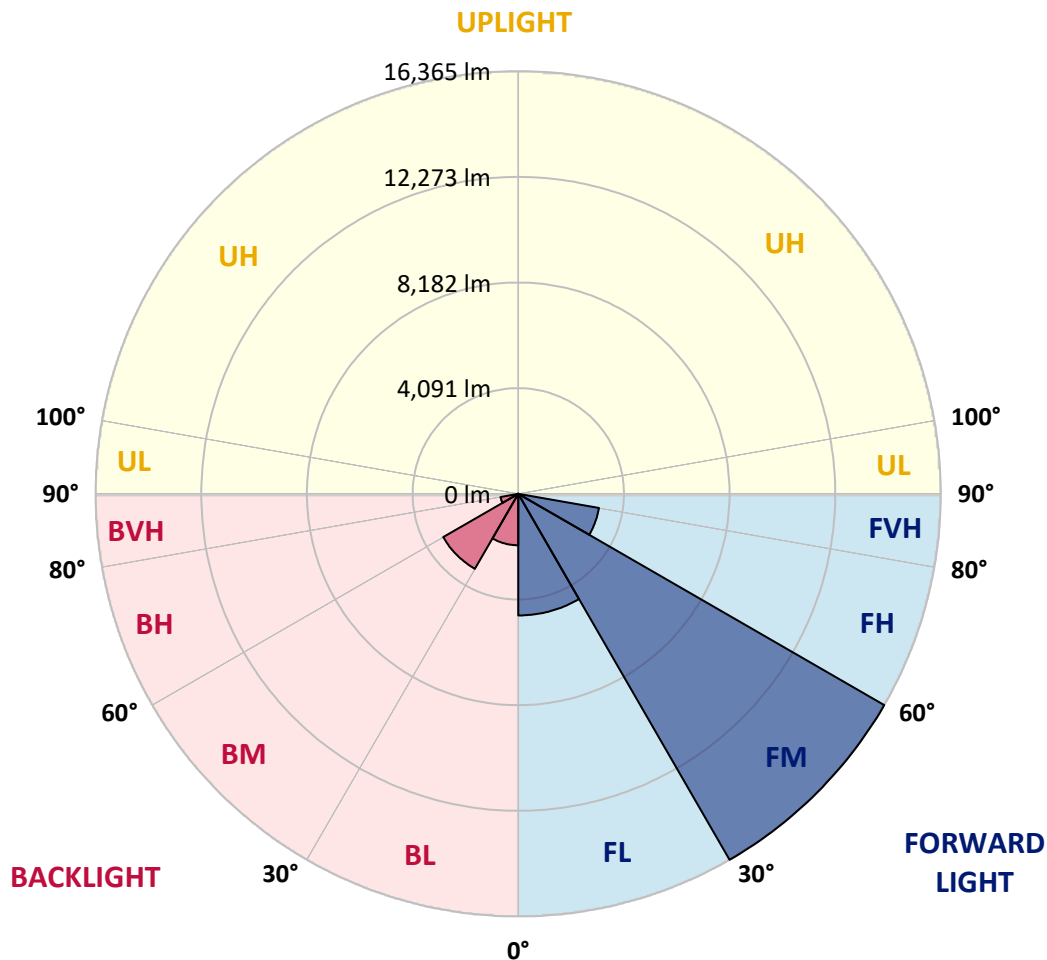
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4709.6	15.5			
FM (30°-60°)	16364.6	53.9			
FH (60°-80°)	3174.5	10.5			G2/5000
FVH (80°-90°)	27.7	0.1			G1/100
BL (0°-30°)	1993.0	6.6	B3/2500		
BM (30°-60°)	3355.5	11.1	B3/5000		
BH (60°-80°)	698.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	33.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8
2.5°	16003.1	15756.2	15443.0	15183.9	14798.5	14021.6	13810.7	13557.8	13346.9	13063.9	12666.4
5°	14551.6	14473.3	14328.7	13353.0	12648.3	11708.7	10937.7	10612.5	10184.9	9835.6	9582.6
7.5°	13443.3	13130.1	12672.4	11690.7	10564.3	9558.5	8703.2	8203.3	7637.1	7444.5	7101.1
10°	12256.8	12329.0	11654.5	10275.2	8914.1	8100.9	7570.9	7089.0	6577.1	6239.8	5752.0
12.5°	11877.3	11642.4	11124.5	9420.0	8257.5	7498.6	6854.1	6257.9	5715.8	5173.8	4704.0
15°	12124.3	11762.9	11040.1	9239.2	7751.6	6806.0	5998.9	5191.8	4691.9	3999.3	3511.4
17.5°	13009.7	12720.5	11750.9	9432.0	7492.6	6143.4	4944.9	4113.7	3348.8	2722.4	2475.5
20°	14485.3	14075.8	12859.1	9679.0	7107.1	5342.4	4011.3	2987.4	2264.7	1999.6	1861.1
22.5°	15930.8	15708.0	14172.1	10154.8	6763.8	4631.7	3011.5	2011.7	1692.5	1644.3	1553.9
25°	18683.3	18014.8	16177.8	11016.0	6498.8	3963.2	2270.7	1620.2	1433.4	1397.3	1409.4
27.5°	20321.6	19761.4	18032.9	11588.2	6203.7	3451.2	1921.3	1487.7	1361.2	1282.9	1252.8
30°	21893.6	21243.1	18954.4	11925.6	5571.3	2909.1	1704.5	1427.5	1397.3	1282.9	1246.8
32.5°	23104.2	22465.8	20285.4	12431.5	5312.3	2559.8	1403.4	1114.3	1036.0	1023.9	1132.3
35°	24959.3	24278.7	21423.8	12708.6	5113.5	2379.1	1216.6	993.8	903.4	867.3	873.4
37.5°	26687.9	26224.2	22477.8	12816.9	4902.8	2324.9	1090.2	891.4	813.1	789.0	783.0
40°	28133.4	27097.4	23477.6	12931.4	4812.4	2222.5	1011.9	813.1	758.9	722.8	722.8
42.5°	28795.9	27741.9	24597.9	12865.2	4788.3	2059.8	1011.9	746.8	704.7	668.5	662.5
45°	28651.4	28223.8	25097.8	12835.0	4788.3	1897.2	921.5	728.8	668.5	620.4	608.3
47.5°	29024.8	28464.7	25724.2	12961.5	4691.9	1782.8	777.0	764.9	632.4	572.2	560.2
50°	29091.1	29199.5	26814.4	13618.0	4481.1	1638.3	608.3	752.9	608.3	518.0	505.9
52°	29524.7	28850.2	27145.7	13967.3	4258.3	1529.8	511.9	644.5	584.2	481.9	469.8
52.5°	28928.5	29368.1	27224.0	14093.8	4282.4	1457.6	493.9	632.4	572.2	481.9	451.7
55°	28259.9	28681.5	26904.7	14364.8	3927.0	1144.4	385.5	457.7	518.0	421.6	403.6
57.5°	24561.8	24989.4	23381.2	13154.2	3198.2	807.1	319.2	343.3	457.7	391.5	373.4
60°	21833.3	21526.2	19622.9	10973.9	2270.7	451.7	253.0	265.0	499.9	361.4	355.3
62.5°	19954.2	19297.7	16400.6	8474.3	1385.3	301.1	198.7	204.8	385.5	337.3	337.3
65°	14762.4	14027.5	10895.6	5125.6	680.6	210.8	150.6	162.6	240.9	289.1	289.1
67.5°	8426.2	8143.1	5264.1	2312.8	283.1	132.5	114.5	126.5	186.7	234.9	222.8
70°	3872.8	3475.3	2023.7	487.9	132.5	90.4	90.4	102.4	150.6	174.7	162.6
72.5°	1132.3	1072.1	493.9	78.3	54.2	54.2	60.2	78.3	114.5	132.5	120.4
75°	84.3	54.2	36.2	24.1	24.1	36.2	48.2	78.3	114.5	126.5	102.4
77.5°	6.0	12.1	6.0	6.0	18.1	36.2	54.2	96.4	150.6	156.6	114.5
80°	6.0	6.0	0.0	6.0	18.1	36.2	60.2	108.4	168.7	180.7	96.4
82.5°	0.0	0.0	0.0	6.0	24.1	48.2	72.3	114.5	156.6	192.8	102.4
85°	0.0	0.0	0.0	6.0	36.2	66.2	84.3	30.1	18.1	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°	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8
2.5°	12949.4	12792.8	12732.6	12786.9	12768.8	12750.7	13082.0	13009.7	12997.6	13106.0	13082.0
5°	9721.1	9444.1	10203.0	9895.8	10215.0	10407.7	10443.9	10462.0	10684.8	10449.9	10757.1
7.5°	6926.4	6998.7	6992.7	7197.5	7564.9	7890.1	8082.8	7932.3	7920.3	7890.1	7757.7
10°	5535.1	5408.7	5384.5	5336.4	5450.8	5727.9	5962.8	5776.0	5643.6	5824.3	5770.0
12.5°	4523.2	4348.6	4252.2	4059.5	4065.5	4252.2	4252.2	4252.2	4384.7	4487.1	4565.4
15°	3469.2	3324.7	3324.7	3131.9	3089.8	3095.8	3192.2	3204.3	3415.1	3475.3	3505.4
17.5°	2427.3	2349.0	2439.3	2517.6	2469.4	2481.5	2517.6	2529.6	2559.8	2535.7	2595.9
20°	1867.1	1855.1	1879.2	2017.7	2120.1	2180.3	2138.1	2077.9	2041.8	1957.5	1957.5
22.5°	1584.1	1608.1	1650.3	1764.7	1897.2	1933.4	1885.2	1746.6	1638.3	1626.2	1632.2
25°	1409.4	1433.4	1499.8	1572.0	1644.3	1704.5	1656.4	1553.9	1493.7	1439.5	1439.5
27.5°	1301.0	1313.0	1349.2	1403.4	1463.6	1511.7	1493.7	1439.5	1373.2	1349.2	1294.9
30°	1216.6	1234.7	1276.8	1288.9	1343.2	1367.2	1337.1	1325.1	1282.9	1252.8	1234.7
32.5°	1174.5	1168.5	1198.5	1210.6	1216.6	1234.7	1198.5	1216.6	1210.6	1162.4	1144.4
35°	885.4	933.6	1011.9	1078.1	1096.2	1120.3	1114.3	1090.2	1023.9	969.7	903.4
37.5°	795.1	825.1	867.3	921.5	993.8	1023.9	1011.9	951.7	873.4	837.2	825.1
40°	734.8	752.9	789.0	825.1	897.4	951.7	909.5	855.3	795.1	764.9	746.8
42.5°	680.6	686.6	704.7	740.8	795.1	879.4	807.1	734.8	710.7	692.6	680.6
45°	620.4	620.4	644.5	662.5	722.8	801.1	728.8	662.5	650.5	638.5	632.4
47.5°	572.2	578.2	590.2	614.3	662.5	716.8	668.5	614.3	584.2	578.2	566.2
50°	511.9	518.0	542.1	566.2	626.4	656.5	626.4	566.2	536.0	518.0	518.0
52°	463.8	481.9	505.9	554.1	596.3	644.5	608.3	542.1	505.9	487.9	475.8
52.5°	457.7	469.8	493.9	548.1	596.3	638.5	602.3	536.0	493.9	481.9	469.8
55°	409.6	427.6	469.8	536.0	590.2	638.5	590.2	530.0	469.8	439.7	427.6
57.5°	391.5	403.6	457.7	542.1	584.2	638.5	590.2	530.0	469.8	415.6	403.6
60°	373.4	397.5	457.7	524.0	578.2	644.5	596.3	524.0	457.7	391.5	391.5
62.5°	355.3	373.4	451.7	511.9	554.1	620.4	572.2	511.9	439.7	373.4	367.4
65°	307.2	337.3	397.5	427.6	475.8	536.0	487.9	445.7	385.5	331.3	325.3
67.5°	234.9	247.0	295.1	331.3	361.4	415.6	391.5	337.3	295.1	253.0	253.0
70°	162.6	174.7	210.8	228.9	259.0	289.1	271.0	228.9	198.7	174.7	168.7
72.5°	114.5	120.4	132.5	144.5	156.6	168.7	162.6	132.5	114.5	108.4	102.4
75°	90.4	102.4	108.4	102.4	96.4	90.4	90.4	78.3	66.2	60.2	60.2
77.5°	90.4	96.4	90.4	78.3	66.2	60.2	54.2	48.2	36.2	30.1	36.2
80°	78.3	78.3	78.3	66.2	60.2	54.2	48.2	42.1	36.2	30.1	30.1
82.5°	84.3	84.3	78.3	66.2	66.2	54.2	54.2	48.2	42.1	30.1	30.1
85°	0.0	0.0	0.0	12.1	30.1	54.2	54.2	48.2	42.1	36.2	36.2
87.5°	0.0	0.0	0.0	0.0	6.0	12.1	24.1	30.1	36.2	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8
2.5°	13298.8	13527.7	13961.3	14395.0	14660.0	14973.2	15539.3	15840.5	16232.0	16424.7	16804.2
5°	10714.9	11257.0	11449.7	11943.6	12473.7	13003.7	13846.9	14774.4	15545.4	16075.4	16762.0
7.5°	7817.9	7944.3	8691.2	9022.4	9889.8	10853.5	12003.9	13172.3	14148.0	15015.4	15539.3
10°	5860.4	6324.1	6793.9	7426.4	8125.0	9118.8	10221.0	11509.9	12774.8	13642.1	14304.6
12.5°	4710.0	5077.4	5703.8	6384.3	7245.6	7902.2	9010.4	10287.3	11925.6	12774.8	13648.1
15°	3565.6	4035.4	4746.2	5450.8	6360.3	7053.0	8173.2	9781.3	11889.4	13057.9	13810.7
17.5°	2644.1	2963.3	3601.7	4390.8	5318.3	6294.1	7805.8	9727.1	12292.9	13684.3	14461.2
20°	2023.7	2132.1	2535.7	3240.4	4246.2	5523.1	7209.6	9962.0	13485.5	15208.1	15997.1
22.5°	1638.3	1686.4	1843.0	2330.9	3306.6	4848.5	6926.4	10124.7	14828.6	17033.1	18087.1
25°	1427.5	1415.4	1517.8	1728.6	2583.9	4216.1	6565.1	10739.0	16472.9	19177.2	20122.9
27.5°	1301.0	1301.0	1349.2	1499.8	2144.2	3806.6	6336.2	11178.7	18129.2	21062.4	21574.4
30°	1234.7	1246.8	1385.3	1433.4	1782.8	3318.7	5956.8	11624.4	19713.3	22267.0	22971.7
32.5°	1144.4	1096.2	1066.1	1186.6	1499.8	2879.0	5577.3	11811.1	20996.1	23742.7	24345.0
35°	879.4	855.3	891.4	981.7	1288.9	2505.6	5155.7	12021.9	22471.8	25453.2	25573.6
37.5°	795.1	789.0	813.1	891.4	1084.1	2180.3	4854.5	11967.7	23598.1	26868.6	26543.3
40°	734.8	734.8	752.9	819.1	969.7	1951.5	4541.3	11919.5	24688.3	28458.7	27507.0
42.5°	686.6	686.6	716.8	758.9	921.5	1800.9	4306.4	11853.3	25603.8	29434.4	28073.2
45°	620.4	638.5	686.6	728.8	933.6	1698.5	4131.8	11600.3	25917.0	29422.3	27802.1
47.5°	572.2	596.3	644.5	704.7	843.2	1668.3	4011.3	11377.5	25808.5	28699.6	26952.9
50°	518.0	548.1	614.3	716.8	716.8	1608.1	3884.9	11576.2	25730.2	28139.5	26139.8
52°	481.9	505.9	590.2	698.7	626.4	1481.7	3806.6	11961.7	26049.5	28067.2	25778.4
52.5°	475.8	493.9	572.2	686.6	596.3	1457.6	3752.3	12052.0	26151.9	27886.5	26025.4
55°	421.6	445.7	524.0	536.0	487.9	1198.5	3577.7	12256.8	25645.9	27531.1	25790.5
57.5°	397.5	409.6	463.8	439.7	421.6	903.4	3077.7	11937.6	22779.0	24453.4	23995.6
60°	367.4	379.4	433.6	343.3	355.3	632.4	2312.8	10365.6	18291.8	20375.8	21201.0
62.5°	355.3	349.3	409.6	277.0	301.1	457.7	1632.2	8426.2	14093.8	16774.1	18201.5
65°	313.2	307.2	295.1	234.9	259.0	355.3	975.7	5499.0	9931.9	12690.5	13473.5
67.5°	240.9	253.0	216.8	186.7	216.8	277.0	542.1	2463.4	5209.9	7613.0	8245.5
70°	168.7	180.7	174.7	162.6	192.8	228.9	313.2	843.2	2156.2	3999.3	4408.8
72.5°	102.4	126.5	132.5	138.5	168.7	198.7	222.8	271.0	572.2	1415.4	1758.7
75°	60.2	84.3	102.4	120.4	138.5	168.7	186.7	192.8	198.7	265.0	427.6
77.5°	42.1	60.2	90.4	114.5	138.5	168.7	198.7	210.8	198.7	186.7	198.7
80°	36.2	60.2	84.3	108.4	144.5	174.7	198.7	198.7	192.8	168.7	180.7
82.5°	36.2	60.2	90.4	114.5	138.5	168.7	192.8	198.7	180.7	168.7	174.7
85°	42.1	66.2	96.4	120.4	150.6	138.5	126.5	102.4	96.4	78.3	84.3
87.5°	42.1	60.2	60.2	66.2	72.3	72.3	72.3	66.2	54.2	48.2	48.2
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: P647668

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8	15394.8
2.5°	16822.2	17304.1	17286.0	17298.0	17225.8	16737.9	16503.0	15906.7	16075.4	16003.1
5°	17466.7	17942.5	18352.0	18303.9	17749.7	17087.3	16105.5	15178.0	14925.0	14551.6
7.5°	16822.2	17966.6	18346.1	18291.8	17472.7	16623.5	15057.5	14129.9	13690.3	13443.3
10°	15798.4	17123.3	17593.1	17689.5	17135.4	15846.5	14407.0	12919.3	12684.4	12256.8
12.5°	15214.1	16177.8	16466.9	16725.9	16533.1	15569.5	13913.1	12485.6	12160.5	11877.3
15°	14738.3	15310.5	15430.9	15726.0	15840.5	15322.5	14172.1	12955.4	12154.4	12124.3
17.5°	15178.0	14943.1	14503.4	14593.7	14955.1	15328.6	14840.7	13883.0	13106.0	13009.7
20°	15906.7	14870.8	13877.0	14099.9	14401.0	15545.4	15852.5	15178.0	14732.2	14485.3
22.5°	16743.9	14997.3	13678.2	13786.7	14358.8	16033.3	17490.8	17117.3	16286.2	15930.8
25°	18291.8	15346.6	13834.8	13907.1	14690.1	16713.8	18972.4	19249.5	18755.6	18683.3
27.5°	19803.6	16250.1	14178.2	14015.5	14858.8	17376.3	19869.9	21357.6	20490.2	20321.6
30°	20574.6	16984.8	14690.1	14413.0	15557.4	17779.9	20411.9	22730.8	21971.9	21893.6
32.5°	21755.0	17653.4	15087.6	14732.2	15948.9	18279.8	21423.8	24230.5	23495.7	23104.2
35°	22248.9	18382.2	15960.9	15545.4	17069.2	18978.4	21941.8	25567.6	25338.7	24959.3
37.5°	23200.6	19165.2	16990.9	16966.7	18424.4	19888.0	22875.3	27386.6	27344.4	26687.9
40°	23278.9	20020.4	18617.1	19376.0	20520.3	21472.0	23694.4	27892.5	28579.1	28133.4
42.5°	23399.3	21520.1	21429.8	22056.2	23038.0	22833.2	23724.6	28012.9	29061.0	28795.9
45°	23453.5	23019.9	24290.8	25447.2	25856.7	24616.0	23441.5	27784.1	29314.0	28651.4
47.5°	23019.9	24308.8	26603.6	28838.1	28958.6	25712.2	23321.0	27549.2	29464.5	29024.8
50°	23080.1	25115.9	28603.2	30602.9	30163.2	26681.9	23134.4	27404.6	29386.2	29091.1
52°	22935.6	25134.0	28886.3	30566.7	30259.5	26145.9	22815.1	26850.6	29314.0	29524.7
52.5°	23098.2	25025.5	28591.2	30590.8	30193.3	26410.8	22772.9	27157.7	29356.1	28928.5
55°	22538.0	23736.6	26862.5	27711.8	27651.6	23971.5	21478.0	26139.8	28253.9	28259.9
57.5°	20369.7	20574.6	21068.4	21050.4	20773.3	18845.9	18370.1	24037.8	25188.2	24561.8
60°	17948.6	15063.5	13732.4	13190.3	12883.2	12570.0	16250.1	21989.9	22098.4	21833.3
62.5°	15509.2	10443.9	8673.1	8522.6	8594.8	9739.2	15708.0	21176.9	20526.3	19954.2
65°	12515.8	7613.0	6300.0	6101.3	6806.0	8040.7	12714.5	16238.0	15238.2	14762.4
67.5°	7860.0	5553.2	4258.3	3884.9	4734.1	5535.1	8353.9	10203.0	9082.6	8426.2
70°	4661.8	3101.9	1927.4	1728.6	1945.4	2951.3	4679.8	5089.4	4210.1	3872.8
72.5°	1837.0	1138.3	536.0	457.7	475.8	1036.0	1722.6	1680.4	1270.9	1132.3
75°	493.9	343.3	186.7	150.6	126.5	192.8	277.0	180.7	66.2	84.3
77.5°	228.9	204.8	162.6	126.5	96.4	72.3	36.2	12.1	12.1	6.0
80°	198.7	174.7	150.6	126.5	96.4	60.2	30.1	6.0	6.0	6.0
82.5°	186.7	162.6	138.5	114.5	90.4	60.2	30.1	6.0	0.0	0.0
85°	78.3	102.4	114.5	108.4	96.4	60.2	30.1	6.0	0.0	0.0
87.5°	42.1	36.2	30.1	24.1	18.1	12.1	12.1	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)