

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: P534244

Luminaire Tested: **GALN-SA9D-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-727-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43681 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

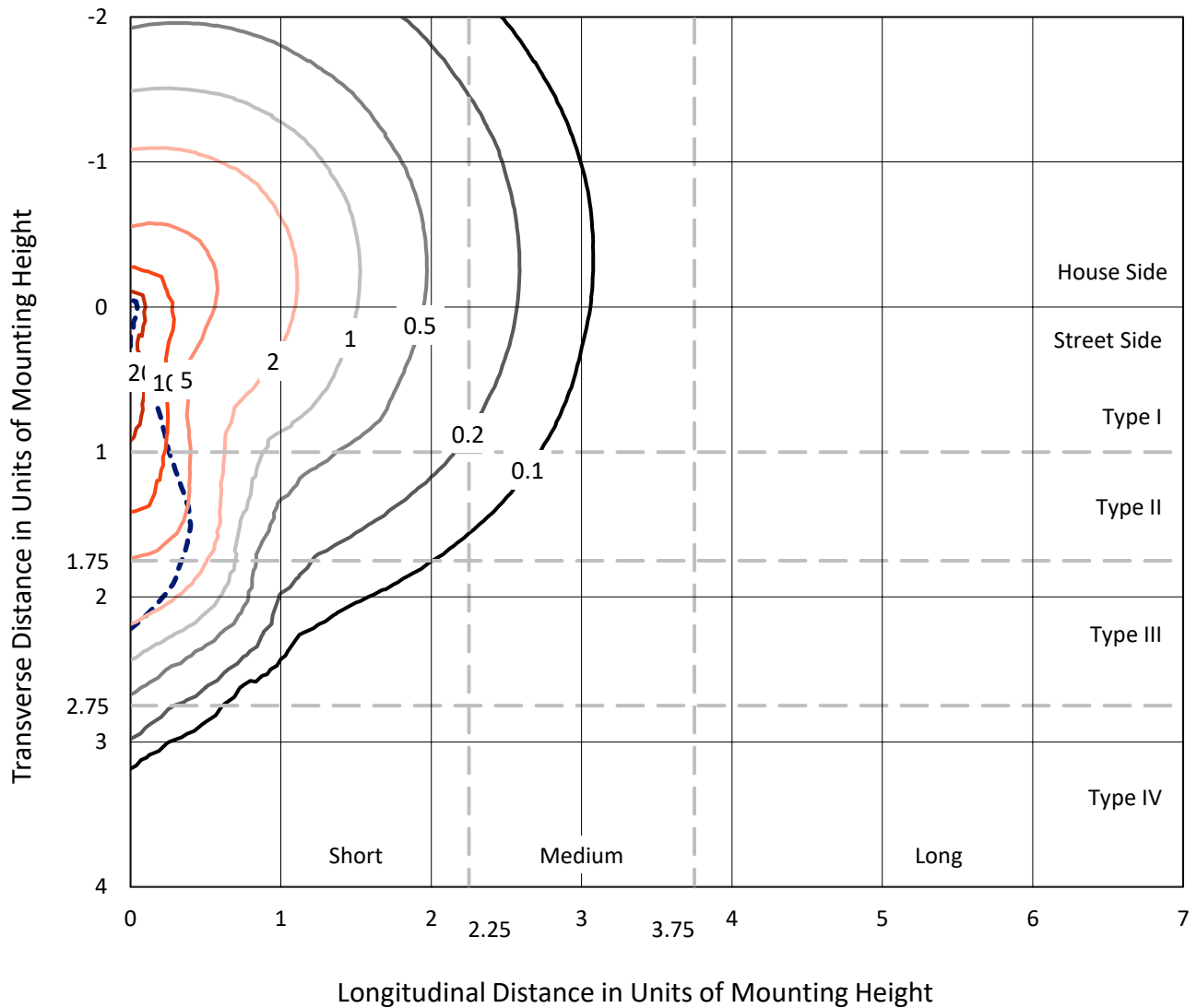
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

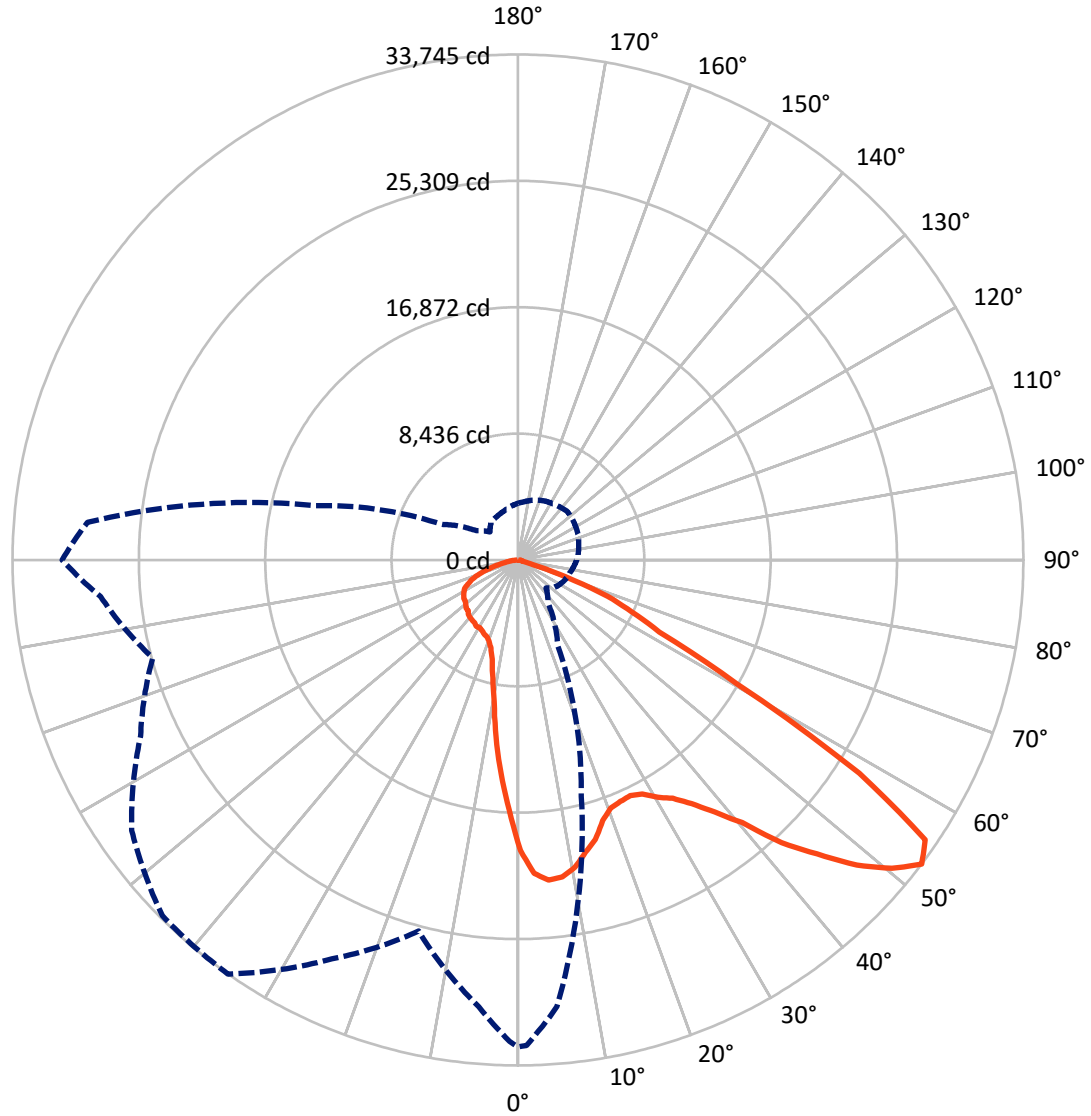
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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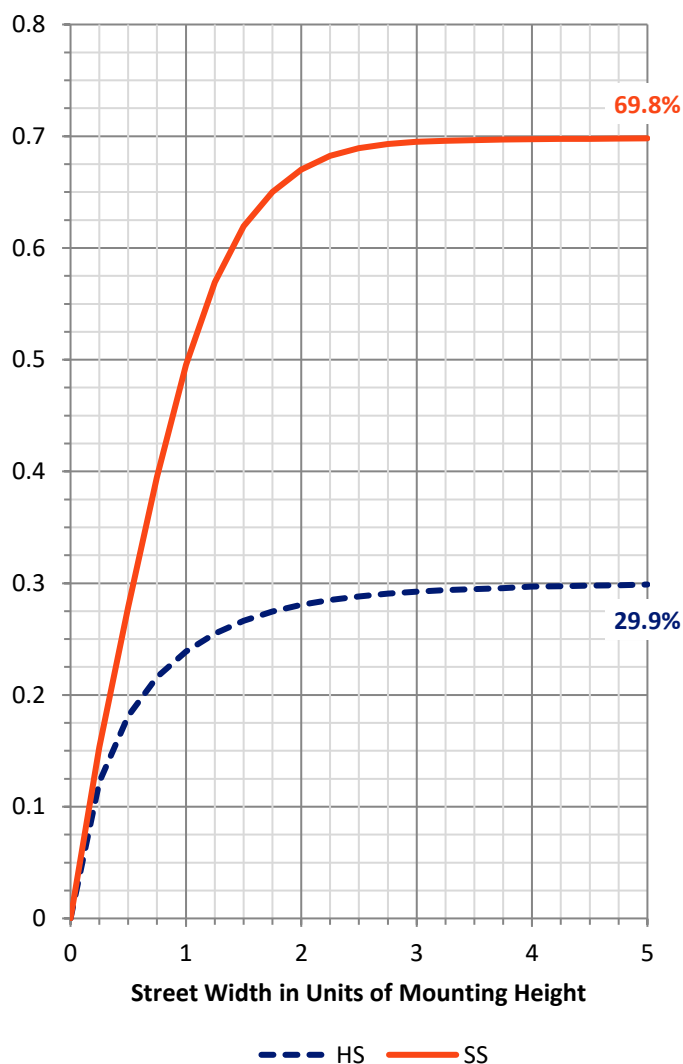
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13168.0	0.0	13168.0
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	30513.0	0.0	30513.0
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	43681.0	0.0	43681.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1479.0	3.4
10°-20°	3206.2	7.3
20°-30°	4844.3	11.1
30°-40°	7000.2	16.0
40°-50°	9316.0	21.3
50°-60°	10420.2	23.9
60°-70°	5872.8	13.4
70°-80°	1309.1	3.0
80°-90°	233.1	0.5
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°	43681.0	100.0
0°-180°	43681.0	100.0

**Coefficient of Utilization**



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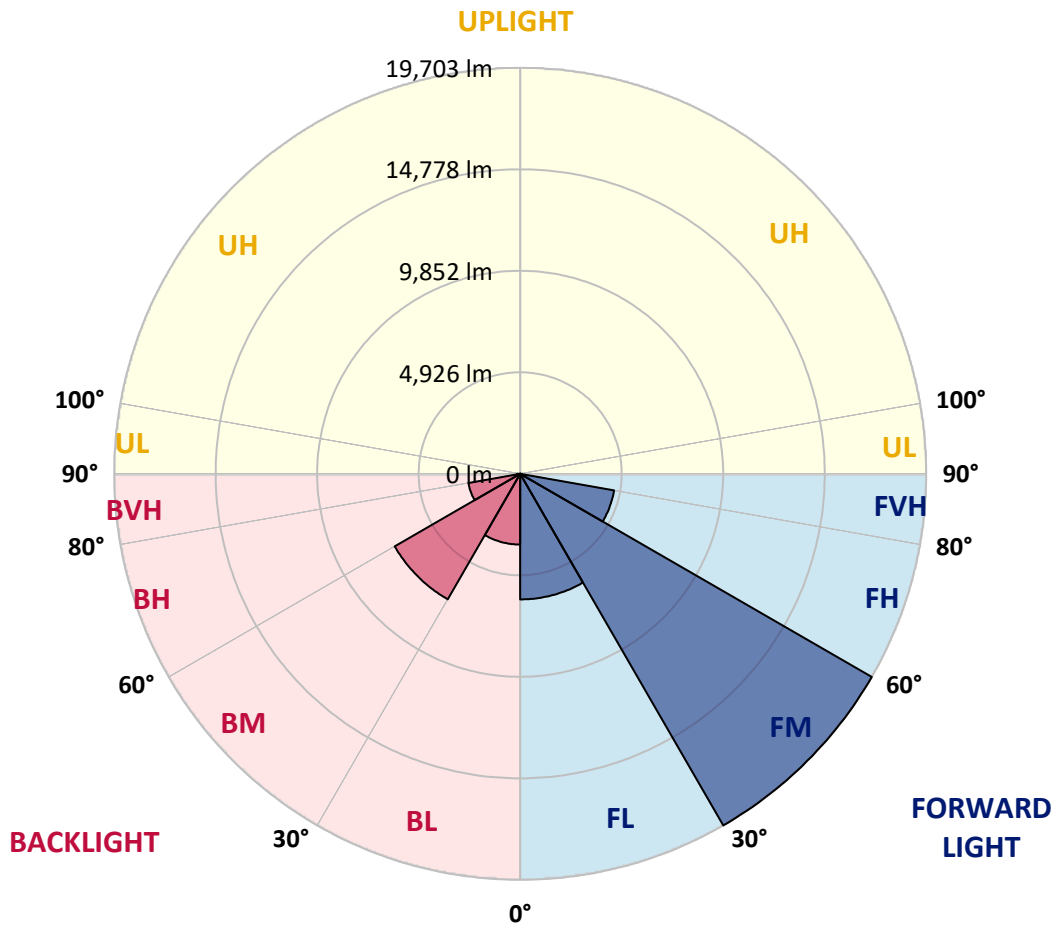
CATALOG NUMBER: GALN-SA9D-727-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6095.6	14.0			
FM (30°-60°)	19703.5	45.1			
FH (60°-80°)	4629.5	10.6			G2/5000
FVH (80°-90°)	84.4	0.2			G1/100
BL (0°-30°)	3433.9	7.9	B4/5000		
BM (30°-60°)	7033.0	16.1	B4/8500		
BH (60°-80°)	2552.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	148.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9
2.5°	19708.8	20025.3	19683.5	19075.7	18645.2	18252.6	17841.1	17758.8	17220.7	17125.7	16733.2
5°	18588.2	18518.5	18100.7	17303.0	16422.9	15625.2	15036.4	14466.6	14080.4	13630.9	13599.3
7.5°	17227.0	16821.8	16581.2	15372.0	14283.0	13029.4	12491.3	11623.9	11351.7	10946.5	10737.6
10°	16011.4	15713.8	15150.4	13941.1	12421.7	11592.3	11016.2	10547.6	10231.1	9813.2	9287.8
12.5°	15410.0	15289.7	14656.5	12782.5	11655.6	10769.2	10364.0	9908.2	9370.1	8699.0	8439.4
15°	15517.6	15112.4	14631.2	12560.9	11003.5	10148.8	9503.0	8933.2	8243.1	7603.7	7230.1
17.5°	16321.6	16011.4	15049.1	12700.2	10756.6	9522.0	8350.8	7508.7	6888.3	6312.1	6052.6
20°	17904.4	17454.9	16372.3	12877.5	10224.8	8648.3	7306.1	6267.8	5603.0	5299.1	5210.5
22.5°	19658.1	19392.2	17663.8	13276.4	9800.6	7837.9	6198.2	5159.9	4913.0	4830.6	4995.3
25°	21791.7	21101.6	19670.8	13928.5	9471.4	7147.8	5261.2	4685.0	4558.4	4640.7	4830.6
27.5°	23412.5	23228.9	21076.3	14542.6	9021.8	6318.5	4735.7	4355.8	4393.8	4476.1	4653.4
30°	25337.2	24406.5	22437.5	14966.8	8616.7	5748.7	4368.5	4267.2	4305.2	4444.4	4533.1
32.5°	26495.7	26147.5	23292.2	15606.2	8148.2	5254.8	4083.6	3988.6	4045.6	4254.5	4463.4
35°	27970.9	27280.8	24349.5	15770.8	7818.9	5058.6	3881.0	3811.3	3944.3	4089.9	4324.2
37.5°	29693.0	29218.1	25812.0	15656.9	7641.7	4856.0	3710.0	3678.4	3773.3	3975.9	4248.2
40°	30712.3	30566.7	26578.1	15726.5	7363.1	4678.7	3513.8	3551.8	3748.0	3906.3	4172.2
42.5°	31693.6	30743.9	27711.3	15701.2	7185.8	4438.1	3532.8	3488.4	3640.4	3824.0	4077.2
45°	31908.9	30965.5	27977.2	15523.9	6970.6	4203.9	3387.2	3406.1	3589.7	3817.7	3982.3
47.5°	31769.6	31073.1	28471.1	15473.3	6768.0	4039.3	3171.9	3399.8	3507.4	3691.0	3925.3
50°	31674.6	31636.6	28888.9	15713.8	6495.7	3779.7	2912.3	3317.5	3425.1	3608.7	3862.0
52.5°	32510.3	32428.0	29933.5	16347.0	6280.5	3501.1	2646.4	3108.6	3368.2	3545.4	3792.3
55°	33016.8	32655.9	31725.3	17125.7	5919.6	3133.9	2462.8	2849.0	3228.9	3387.2	3640.4
57.5°	29699.3	29452.4	28699.0	15986.1	5311.8	2652.7	2234.9	2583.1	3038.9	3285.9	3545.4
60°	24710.4	24324.2	22393.2	13586.6	3919.0	2063.9	2095.6	2374.2	2988.3	3083.3	3387.2
62.5°	23298.5	22342.5	19715.1	10933.8	3007.3	1772.7	1880.3	2184.2	2722.4	2880.7	3184.6
65°	18486.9	17777.8	14105.7	7894.9	2013.3	1538.5	1715.7	1969.0	2348.8	2659.1	2937.6
67.5°	11573.3	10895.9	7527.7	3735.4	1405.5	1316.9	1532.1	1798.0	2108.3	2386.8	2697.1
70°	6046.2	5305.5	3475.8	1348.5	968.7	1076.3	1278.9	1532.1	1836.0	2063.9	2304.5
72.5°	2253.9	1829.7	1133.3	582.5	671.1	823.0	1038.3	1221.9	1437.2	1715.7	1848.7
75°	348.2	297.6	291.2	354.5	455.8	595.1	740.7	924.3	1114.3	1291.5	1380.2
77.5°	164.6	158.3	177.3	234.3	303.9	424.2	538.1	715.4	867.4	981.3	1032.0
80°	107.6	101.3	114.0	158.3	227.9	316.6	430.5	550.8	690.1	785.1	772.4
82.5°	63.3	69.6	69.6	107.6	158.3	227.9	310.2	417.9	512.8	595.1	544.5
85°	38.0	31.7	31.7	63.3	107.6	183.6	259.6	177.3	183.6	183.6	208.9
87.5°	12.7	12.7	12.7	6.3	12.7	12.7	19.0	31.7	38.0	44.3	57.0
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°	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9
2.5°	16720.5	16916.8	16847.1	16600.2	16790.1	16821.8	16695.2	17132.0	17214.3	17081.4	17119.4
5°	13554.9	13605.6	13719.5	13960.1	14131.1	14333.7	14333.7	14346.3	14175.4	14605.9	14479.3
7.5°	10560.3	10592.0	10724.9	11237.7	11383.4	11769.6	11934.2	11820.2	11478.3	11332.7	11453.0
10°	9116.8	8933.2	8888.9	8952.2	9281.4	9446.0	9585.3	9547.3	9490.4	9376.4	9249.8
12.5°	8154.5	8021.5	7913.9	7762.0	7780.9	7939.2	8046.9	7958.2	7983.5	8008.9	8046.9
15°	7109.9	7014.9	6957.9	6730.0	6704.7	6812.3	6850.3	6900.9	6995.9	7002.2	6957.9
17.5°	6001.9	5919.6	6046.2	6172.8	6084.2	6090.5	6160.2	6204.5	6179.2	6065.2	6008.2
20°	5242.2	5330.8	5457.4	5577.7	5672.7	5729.7	5755.0	5685.3	5603.0	5368.8	5362.5
22.5°	5020.6	5134.5	5242.2	5425.8	5514.4	5660.0	5527.1	5368.8	5254.8	5140.9	5007.9
25°	4856.0	4950.9	5166.2	5235.8	5406.8	5527.1	5432.1	5273.8	5077.6	4913.0	4811.7
27.5°	4735.7	4843.3	4982.6	5172.5	5305.5	5375.1	5280.2	5216.8	5014.2	4818.0	4672.4
30°	4659.7	4773.7	5026.9	5185.2	5299.1	5356.1	5191.5	5115.5	4969.9	4805.3	4678.7
32.5°	4609.1	4710.4	4925.6	5128.2	5204.2	5204.2	5229.5	5140.9	4938.3	4659.7	4552.1
35°	4444.4	4583.7	4761.0	4995.3	5134.5	5216.8	5090.2	4988.9	4856.0	4571.1	4374.8
37.5°	4349.5	4444.4	4672.4	4894.0	5014.2	5102.9	5052.2	4875.0	4697.7	4463.4	4305.2
40°	4248.2	4400.1	4602.7	4811.7	4944.6	5033.2	4995.3	4786.3	4571.1	4349.5	4241.9
42.5°	4178.5	4279.8	4488.8	4723.0	4881.3	5052.2	4938.3	4678.7	4526.8	4222.9	4102.6
45°	4121.6	4286.2	4507.8	4602.7	4767.3	4944.6	4742.0	4583.7	4406.5	4184.9	4083.6
47.5°	4051.9	4203.9	4349.5	4602.7	4678.7	4761.0	4723.0	4469.8	4317.8	4077.2	4007.6
50°	4026.6	4083.6	4349.5	4488.8	4596.4	4678.7	4577.4	4387.5	4241.9	3994.9	3843.0
52.5°	3925.3	4032.9	4203.9	4387.5	4520.4	4621.7	4457.1	4336.8	4140.6	3881.0	3786.0
55°	3798.7	3862.0	4165.9	4355.8	4425.5	4495.1	4431.8	4235.5	4032.9	3767.0	3672.1
57.5°	3634.1	3779.7	4026.6	4292.5	4381.1	4419.1	4317.8	4159.5	3906.3	3672.1	3520.1
60°	3463.1	3615.1	3887.3	4102.6	4191.2	4330.5	4178.5	4083.6	3792.3	3532.8	3368.2
62.5°	3292.2	3463.1	3665.7	3938.0	4013.9	4070.9	4032.9	3900.0	3665.7	3374.5	3171.9
65°	3089.6	3216.2	3469.5	3608.7	3659.4	3792.3	3659.4	3608.7	3399.8	3121.2	2950.3
67.5°	2785.7	2893.3	3114.9	3247.9	3285.9	3342.8	3336.5	3279.5	3045.3	2855.3	2703.4
70°	2437.5	2532.4	2671.7	2830.0	2849.0	2918.6	2855.3	2842.7	2690.7	2431.2	2348.8
72.5°	1956.3	2045.0	2228.6	2298.2	2304.5	2329.9	2298.2	2253.9	2215.9	1943.7	1861.3
75°	1500.5	1551.1	1639.8	1703.1	1703.1	1734.7	1715.7	1671.4	1570.1	1399.2	1316.9
77.5°	1044.6	1095.3	1209.2	1247.2	1240.9	1253.6	1196.6	1152.3	1000.3	911.7	842.0
80°	759.7	791.4	848.4	873.7	880.0	899.0	829.4	791.4	702.8	601.5	569.8
82.5°	550.8	569.8	576.1	607.8	607.8	576.1	557.1	519.2	455.8	392.5	367.2
85°	227.9	234.3	240.6	278.6	284.9	341.9	316.6	297.6	259.6	221.6	202.6
87.5°	57.0	63.3	82.3	69.6	82.3	82.3	88.6	101.3	101.3	82.3	82.3
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°	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9
2.5°	17265.0	17315.6	17961.4	18043.7	18360.3	18683.1	19335.2	19803.8	20183.6	20430.5	20500.2
5°	14612.2	14935.1	15232.7	15713.8	16150.7	16771.1	17486.6	18372.9	19487.2	20057.0	20284.9
7.5°	11440.3	11820.2	12250.7	12719.2	13358.7	14472.9	15428.9	16454.6	17879.1	18467.9	19360.6
10°	9338.4	9762.6	10332.4	10693.3	11465.7	12529.3	13643.6	14827.5	16188.7	17037.0	18069.0
12.5°	8255.8	8604.0	9129.5	9889.2	10465.3	11155.4	11984.8	13479.0	15428.9	16233.0	16942.1
15°	7059.2	7445.4	8053.2	8895.2	9585.3	10408.4	11339.0	12966.1	15042.7	16283.6	16885.1
17.5°	6071.5	6350.1	6989.6	7717.6	8509.0	9408.0	10743.9	12940.8	15447.9	17037.0	18018.4
20°	5387.8	5425.8	5774.0	6394.4	7470.7	8642.0	10376.7	12814.2	16745.8	18334.9	19575.8
22.5°	4957.3	4919.3	4925.6	5451.1	6204.5	7888.6	9800.6	13244.7	18221.0	20398.9	21234.6
25°	4742.0	4640.7	4577.4	4691.4	5375.1	6995.9	9363.7	13814.5	19810.1	22101.9	23127.6
27.5°	4628.1	4450.8	4324.2	4343.1	4843.3	6546.4	9091.5	14061.4	21386.5	24476.1	24837.0
30°	4583.7	4362.1	4178.5	4115.2	4444.4	5919.6	8509.0	14485.6	22798.4	25780.3	26090.6
32.5°	4425.5	4153.2	3975.9	3919.0	4051.9	5368.8	8091.2	14789.5	24045.6	27198.5	27090.9
35°	4241.9	4013.9	3792.3	3684.7	3779.7	5014.2	7755.6	14643.9	25514.4	28300.1	28243.1
37.5°	4222.9	3925.3	3741.7	3564.4	3558.1	4577.4	7299.8	14783.2	26451.4	30275.4	29496.7
40°	4058.2	3868.3	3627.7	3482.1	3399.8	4355.8	6856.6	14454.0	27825.3	31073.1	30307.1
42.5°	4064.6	3779.7	3570.8	3399.8	3317.5	4032.9	6552.7	14365.3	28306.4	32371.0	30686.9
45°	3963.3	3684.7	3507.4	3304.8	3260.5	3786.0	6261.5	13953.8	29154.8	32434.3	30212.1
47.5°	3862.0	3615.1	3425.1	3184.6	3083.3	3697.4	6033.6	13611.9	28711.6	31839.2	29553.7
50°	3792.3	3507.4	3330.2	3159.2	2874.3	3545.4	5736.0	13529.6	28091.2	31035.2	28331.8
52.5°	3672.1	3418.8	3235.2	3102.2	2646.4	3406.1	5622.0	14010.8	28850.9	30433.7	27977.2
55°	3558.1	3298.5	3064.3	2804.7	2456.5	3038.9	5305.5	14460.3	29958.9	31820.2	29585.3
57.5°	3437.8	3190.9	2937.6	2627.4	2272.9	2659.1	4976.3	14542.6	27882.3	29408.1	28084.9
60°	3279.5	2963.0	2773.0	2367.8	2076.6	2203.2	3944.3	12820.5	21627.1	24558.4	24602.7
62.5°	3102.2	2760.4	2595.8	2120.9	1874.0	1899.3	3216.2	10775.6	17543.5	20329.2	21538.5
65°	2868.0	2538.8	2342.5	1962.6	1728.4	1646.1	2355.2	7894.9	13327.0	16492.6	17866.4
67.5°	2564.1	2253.9	2007.0	1709.4	1544.8	1411.8	1608.1	4444.4	7869.6	11073.1	11491.0
70°	2241.2	1975.3	1715.7	1468.8	1285.2	1190.3	1177.6	1969.0	3760.7	5957.6	6780.6
72.5°	1766.4	1576.4	1367.5	1183.9	1063.6	924.3	842.0	816.7	1272.6	2424.8	3349.2
75°	1266.2	1107.9	987.7	867.4	778.7	702.8	639.4	582.5	531.8	607.8	835.7
77.5°	797.7	740.7	645.8	614.1	563.5	544.5	519.2	487.5	449.5	424.2	424.2
80°	538.1	500.2	468.5	462.2	443.2	436.8	443.2	411.5	373.5	341.9	354.5
82.5°	360.9	354.5	348.2	341.9	348.2	354.5	367.2	360.9	329.2	310.2	316.6
85°	215.3	227.9	240.6	253.2	278.6	246.9	202.6	170.9	151.9	139.3	133.0
87.5°	82.3	114.0	101.3	95.0	101.3	95.0	88.6	82.3	69.6	63.3	63.3
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: P534244

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9	19385.9
2.5°	20962.3	21089.0	21196.6	21171.3	20949.7	20652.1	20531.8	19917.7	19791.1	19708.8
5°	21247.2	21981.7	22139.9	22045.0	21468.8	20740.8	20031.7	19132.7	18607.2	18588.2
7.5°	20721.8	21627.1	21912.0	22127.3	21361.2	20095.0	18879.4	17530.9	17201.7	17227.0
10°	19385.9	20829.4	21532.1	21753.7	20873.7	19778.4	18094.3	16726.8	16024.1	16011.4
12.5°	18645.2	19778.4	19974.7	20284.9	20025.3	18917.4	17638.5	16106.4	15422.6	15410.0
15°	17986.7	18733.8	18790.8	19227.6	19366.9	18619.8	17758.8	16125.4	15574.6	15517.6
17.5°	18562.9	18043.7	17828.4	17885.4	18296.9	18569.2	18455.2	17201.7	16638.2	16321.6
20°	18949.0	17790.5	17138.3	17201.7	17689.2	18683.1	19493.5	18759.1	17866.4	17904.4
22.5°	19981.0	17828.4	16809.1	16739.5	17511.9	19278.3	20664.8	20728.1	19867.1	19658.1
25°	21525.8	18265.3	16707.8	16688.8	17429.6	19917.7	22032.3	23057.9	22177.9	21791.7
27.5°	22766.7	18949.0	17024.4	17087.7	17689.2	20436.9	23197.2	24558.4	23887.3	23412.5
30°	23855.7	19658.1	17467.6	17176.3	18385.6	20709.1	23697.4	26267.8	25729.7	25337.2
32.5°	24305.2	20664.8	18170.3	17689.2	18961.7	21038.3	24735.7	27926.6	27464.4	26495.7
35°	25064.9	21228.3	18550.2	18512.2	19968.4	21829.7	25223.2	29021.9	28831.9	27970.9
37.5°	25672.7	21798.1	19898.7	19480.9	21348.5	23159.2	26008.3	30535.0	30098.2	29693.0
40°	26141.2	22817.4	21158.6	21709.4	23045.3	24368.5	26730.0	30630.0	31889.9	30712.3
42.5°	25710.7	23729.0	23228.9	24545.8	25812.0	25748.7	26812.3	31364.4	32307.7	31693.6
45°	25603.1	25273.8	26502.1	27698.7	27989.9	26894.6	26223.5	30554.0	32181.1	31908.9
47.5°	25343.5	26793.3	28933.2	30883.2	30440.0	27660.7	25520.8	30408.4	32257.1	31769.6
50°	25254.8	27122.5	30731.3	32630.6	32364.7	28325.4	25191.5	29471.4	31718.9	31674.6
52.5°	25248.5	27800.0	31478.3	33580.3	33744.9	29376.4	25641.0	29946.2	32136.8	32510.3
55°	25533.4	27584.7	31383.4	33054.8	32991.5	28907.9	25691.7	30262.8	32649.6	33016.8
57.5°	24083.6	24710.4	25900.6	27223.8	26881.9	23944.3	22944.0	27977.2	29965.2	29699.3
60°	20797.7	18835.1	17492.9	17429.6	16764.8	15846.8	18778.1	24969.9	24969.9	24710.4
62.5°	18214.6	12364.7	10623.6	10129.8	10604.6	11661.9	18113.3	24286.2	23596.1	23298.5
65°	15929.1	9439.7	7679.7	7540.4	8363.4	9958.9	16378.6	20690.1	19474.5	18486.9
67.5°	10250.1	6913.6	5710.7	5463.8	6457.7	7312.4	10902.2	12725.6	11959.5	11573.3
70°	6609.7	4501.4	3178.2	2982.0	3368.2	4507.8	6964.2	7420.1	6305.8	6046.2
72.5°	3127.6	1943.7	1114.3	918.0	1032.0	1722.1	2754.0	2963.0	2462.8	2253.9
75°	994.0	715.4	455.8	392.5	373.5	443.2	633.1	487.5	354.5	348.2
77.5°	443.2	424.2	360.9	303.9	265.9	221.6	183.6	151.9	158.3	164.6
80°	367.2	335.5	297.6	265.9	221.6	170.9	133.0	101.3	101.3	107.6
82.5°	322.9	291.2	259.6	221.6	189.9	139.3	101.3	69.6	63.3	63.3
85°	139.3	164.6	177.3	189.9	151.9	114.0	69.6	44.3	38.0	38.0
87.5°	57.0	50.6	44.3	38.0	31.7	31.7	25.3	19.0	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)