

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: P533126

Luminaire Tested: **GALN-SA8C-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533126  
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-SA8C-735-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA 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: 39387 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3

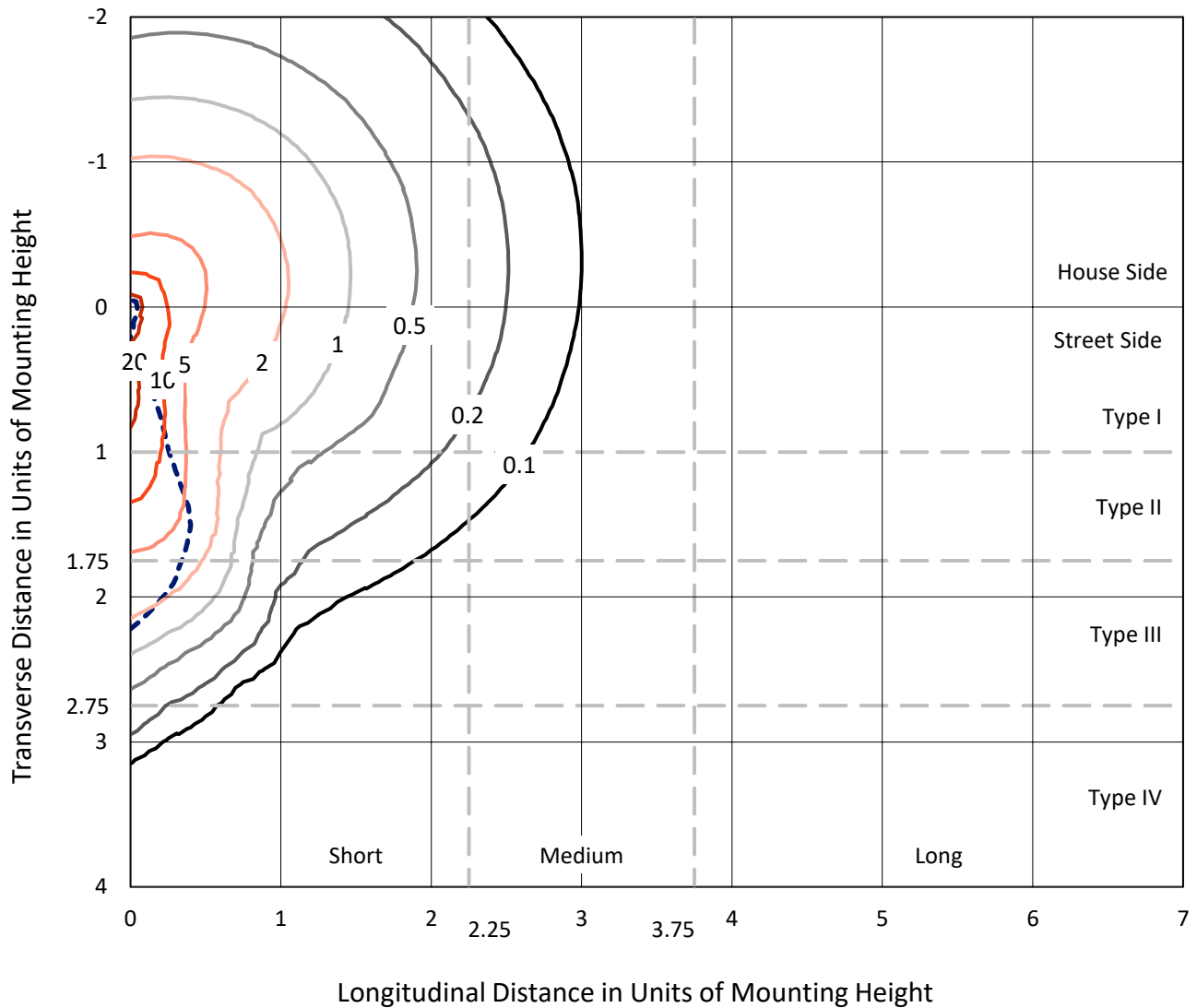
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

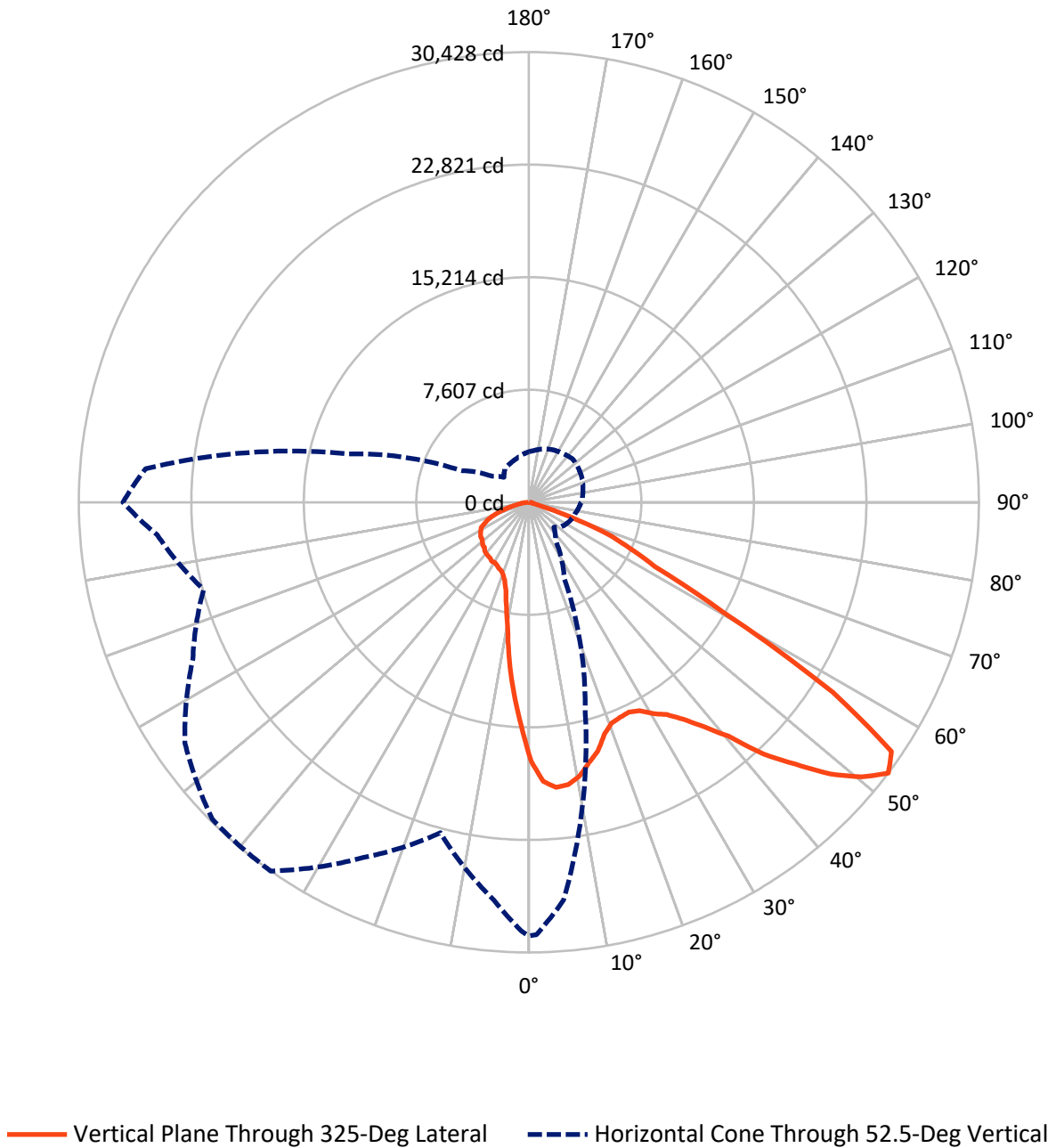
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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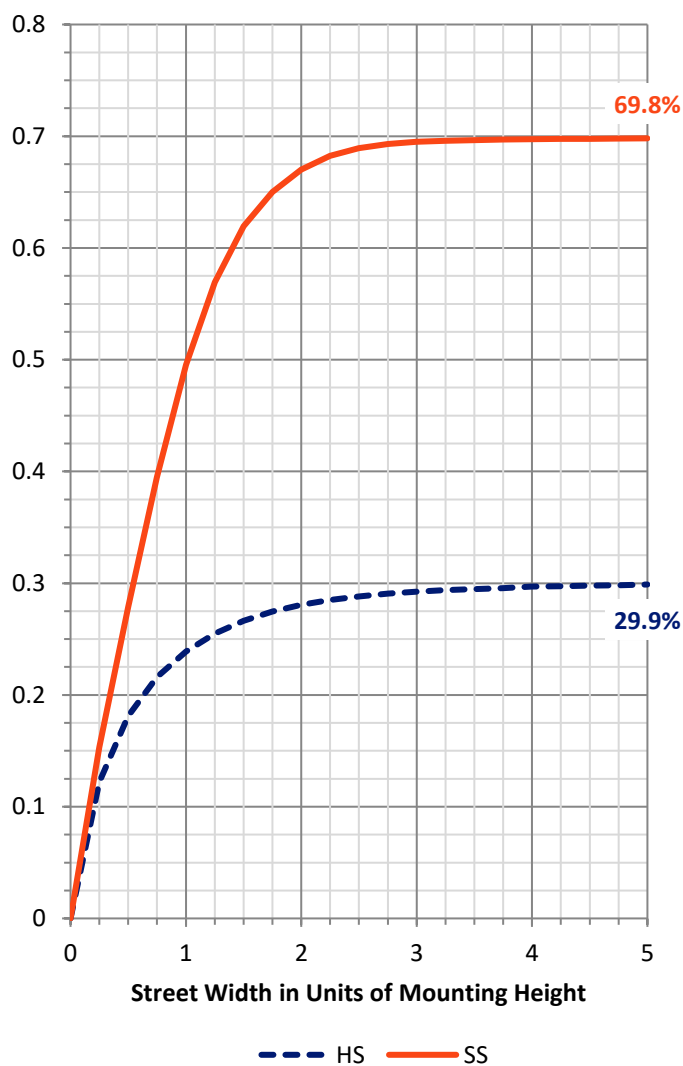
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11873.5	0.0	11873.5
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	27513.5	0.0	27513.5
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	39387.0	0.0	39387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1333.6	3.4
10°-20°	2891.0	7.3
20°-30°	4368.1	11.1
30°-40°	6312.1	16.0
40°-50°	8400.2	21.3
50°-60°	9395.9	23.9
60°-70°	5295.5	13.4
70°-80°	1180.4	3.0
80°-90°	210.2	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°	39387.0	100.0
0°-180°	39387.0	100.0

**Coefficient of Utilization**



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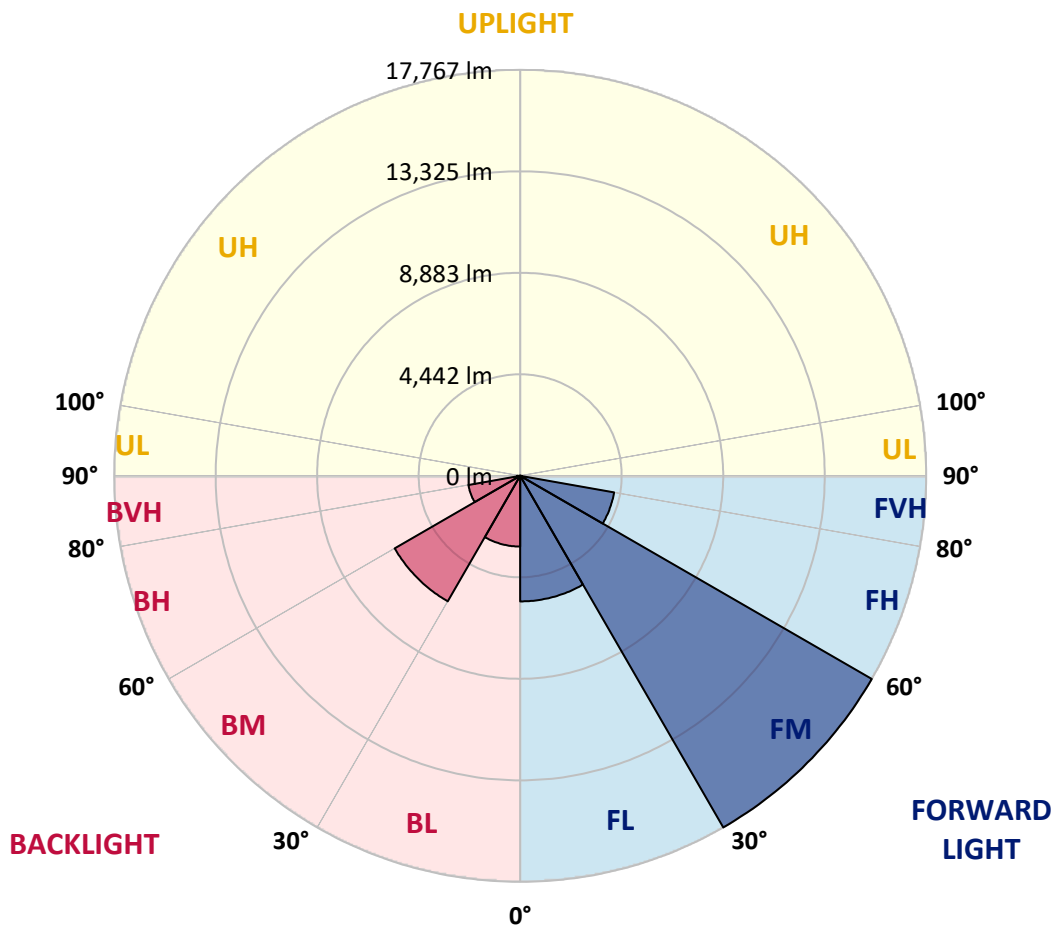
CATALOG NUMBER: GALN-SA8C-735-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5496.4	14.0			
FM (30°-60°)	17766.6	45.1			
FH (60°-80°)	4174.4	10.6			G2/5000
FVH (80°-90°)	76.1	0.2			G1/100
BL (0°-30°)	3096.3	7.9	B4/5000		
BM (30°-60°)	6341.7	16.1	B4/8500		
BH (60°-80°)	2301.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	134.1	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2
2.5°	17771.3	18056.8	17748.5	17200.5	16812.3	16458.3	16087.3	16013.0	15527.8	15442.2	15088.2
5°	16760.9	16698.1	16321.3	15602.0	14808.5	14089.2	13558.3	13044.5	12696.3	12290.9	12262.4
7.5°	15533.5	15168.1	14951.2	13860.8	12878.9	11748.6	11263.4	10481.3	10235.8	9870.4	9682.0
10°	14437.4	14169.1	13661.0	12570.7	11200.6	10452.7	9933.2	9510.8	9225.3	8848.6	8374.7
12.5°	13895.1	13786.6	13215.8	11526.0	10509.8	9710.6	9345.2	8934.2	8449.0	7843.8	7609.8
15°	13992.1	13626.8	13192.9	11326.2	9921.8	9151.1	8568.8	8055.0	7432.8	6856.2	6519.4
17.5°	14717.2	14437.4	13569.7	11451.8	9699.2	8586.0	7529.8	6770.6	6211.1	5691.6	5457.6
20°	16144.3	15739.0	14762.8	11611.6	9219.6	7798.2	6587.9	5651.7	5052.2	4778.2	4698.3
22.5°	17725.7	17485.9	15927.4	11971.2	8837.1	7067.4	5588.9	4652.6	4430.0	4355.8	4504.2
25°	19649.5	19027.3	17737.1	12559.3	8540.3	6445.2	4744.0	4224.5	4110.3	4184.5	4355.8
27.5°	21111.0	20945.4	19004.4	13113.0	8135.0	5697.3	4270.1	3927.6	3961.9	4036.1	4195.9
30°	22846.4	22007.2	20231.8	13495.5	7769.6	5183.5	3939.0	3847.7	3882.0	4007.5	4087.5
32.5°	23891.1	23577.1	21002.5	14072.1	7347.2	4738.3	3682.1	3596.5	3647.9	3836.3	4024.7
35°	25221.3	24599.0	21955.9	14220.5	7050.3	4561.3	3499.5	3436.7	3556.6	3687.9	3899.1
37.5°	26774.0	26345.9	23274.6	14117.7	6890.5	4378.6	3345.3	3316.8	3402.4	3585.1	3830.6
40°	27693.1	27561.8	23965.3	14180.5	6639.3	4218.8	3168.4	3202.6	3379.6	3522.3	3762.1
42.5°	28578.0	27721.7	24987.2	14157.7	6479.4	4001.8	3185.5	3145.5	3282.5	3448.1	3676.4
45°	28772.1	27921.5	25227.0	13997.9	6285.3	3790.6	3054.2	3071.3	3236.9	3442.4	3590.8
47.5°	28646.5	28018.5	25672.2	13952.2	6102.7	3642.2	2860.1	3065.6	3162.6	3328.2	3539.4
50°	28560.9	28526.6	26049.0	14169.1	5857.2	3408.1	2626.0	2991.4	3088.4	3254.0	3482.3
52.5°	29314.4	29240.2	26991.0	14740.0	5663.1	3156.9	2386.3	2803.0	3037.1	3196.9	3419.5
55°	29771.1	29445.7	28606.5	15442.2	5337.7	2825.8	2220.7	2568.9	2911.5	3054.2	3282.5
57.5°	26779.7	26557.1	25877.8	14414.6	4789.6	2392.0	2015.2	2329.2	2740.2	2962.8	3196.9
60°	22281.3	21933.0	20191.8	12251.0	3533.7	1861.1	1889.6	2140.8	2694.5	2780.2	3054.2
62.5°	21008.2	20146.2	17777.0	9859.0	2711.7	1598.5	1695.5	1969.5	2454.8	2597.5	2871.5
65°	16669.6	16030.2	12719.1	7118.8	1815.4	1387.2	1547.1	1775.4	2117.9	2397.7	2648.9
67.5°	10435.6	9824.8	6787.7	3368.2	1267.3	1187.4	1381.5	1621.3	1901.0	2152.2	2431.9
70°	5451.9	4783.9	3134.1	1216.0	873.4	970.5	1153.2	1381.5	1655.5	1861.1	2078.0
72.5°	2032.3	1649.8	1021.9	525.2	605.1	742.1	936.2	1101.8	1295.9	1547.1	1667.0
75°	314.0	268.3	262.6	319.7	411.0	536.6	667.9	833.5	1004.7	1164.6	1244.5
77.5°	148.4	142.7	159.8	211.2	274.0	382.5	485.2	645.1	782.1	884.9	930.5
80°	97.0	91.3	102.8	142.7	205.5	285.4	388.2	496.7	622.3	707.9	696.5
82.5°	57.1	62.8	62.8	97.0	142.7	205.5	279.7	376.8	462.4	536.6	491.0
85°	34.3	28.5	28.5	57.1	97.0	165.6	234.1	159.8	165.6	165.6	188.4
87.5°	11.4	11.4	11.4	5.7	11.4	11.4	17.1	28.5	34.3	40.0	51.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2
2.5°	15076.8	15253.8	15191.0	14968.3	15139.6	15168.1	15054.0	15447.9	15522.1	15402.2	15436.5
5°	12222.4	12268.1	12370.9	12587.8	12741.9	12924.6	12924.6	12936.0	12781.9	13170.1	13055.9
7.5°	9522.2	9550.7	9670.6	10133.0	10264.3	10612.6	10761.0	10658.2	10350.0	10218.7	10327.1
10°	8220.6	8055.0	8015.1	8072.2	8369.0	8517.5	8643.0	8608.8	8557.4	8454.7	8340.5
12.5°	7352.9	7233.0	7135.9	6998.9	7016.1	7158.8	7255.8	7175.9	7198.7	7221.6	7255.8
15°	6410.9	6325.3	6273.9	6068.4	6045.6	6142.6	6176.9	6222.5	6308.2	6313.9	6273.9
17.5°	5411.9	5337.7	5451.9	5566.0	5486.1	5491.8	5554.6	5594.6	5571.7	5469.0	5417.6
20°	4726.8	4806.8	4920.9	5029.4	5115.0	5166.4	5189.3	5126.5	5052.2	4841.0	4835.3
22.5°	4527.0	4629.8	4726.8	4892.4	4972.3	5103.6	4983.7	4841.0	4738.3	4635.5	4515.6
25°	4378.6	4464.2	4658.3	4721.1	4875.3	4983.7	4898.1	4755.4	4578.4	4430.0	4338.7
27.5°	4270.1	4367.2	4492.8	4664.0	4783.9	4846.7	4761.1	4704.0	4521.3	4344.4	4213.1
30°	4201.6	4304.4	4532.7	4675.5	4778.2	4829.6	4681.2	4612.7	4481.4	4332.9	4218.8
32.5°	4156.0	4247.3	4441.4	4624.1	4692.6	4692.6	4715.4	4635.5	4452.8	4201.6	4104.6
35°	4007.5	4133.1	4293.0	4504.2	4629.8	4704.0	4589.8	4498.5	4378.6	4121.7	3944.7
37.5°	3921.9	4007.5	4213.1	4412.9	4521.3	4601.3	4555.6	4395.7	4235.9	4024.7	3882.0
40°	3830.6	3967.6	4150.3	4338.7	4458.5	4538.5	4504.2	4315.8	4121.7	3921.9	3824.9
42.5°	3767.8	3859.1	4047.5	4258.7	4401.4	4555.6	4452.8	4218.8	4081.8	3807.7	3699.3
45°	3716.4	3864.8	4064.6	4150.3	4298.7	4458.5	4275.9	4133.1	3973.3	3773.5	3682.1
47.5°	3653.6	3790.6	3921.9	4150.3	4218.8	4293.0	4258.7	4030.4	3893.4	3676.4	3613.6
50°	3630.8	3682.1	3921.9	4047.5	4144.6	4218.8	4127.4	3956.2	3824.9	3602.2	3465.2
52.5°	3539.4	3636.5	3790.6	3956.2	4076.0	4167.4	4019.0	3910.5	3733.5	3499.5	3413.8
55°	3425.3	3482.3	3756.4	3927.6	3990.4	4053.2	3996.1	3819.2	3636.5	3396.7	3311.1
57.5°	3276.8	3408.1	3630.8	3870.5	3950.5	3984.7	3893.4	3750.6	3522.3	3311.1	3174.1
60°	3122.7	3259.7	3505.2	3699.3	3779.2	3904.8	3767.8	3682.1	3419.5	3185.5	3037.1
62.5°	2968.6	3122.7	3305.4	3550.8	3619.3	3670.7	3636.5	3516.6	3305.4	3042.8	2860.1
65°	2785.9	2900.0	3128.4	3254.0	3299.7	3419.5	3299.7	3254.0	3065.6	2814.4	2660.3
67.5°	2511.9	2608.9	2808.7	2928.6	2962.8	3014.2	3008.5	2957.1	2745.9	2574.6	2437.6
70°	2197.9	2283.5	2409.1	2551.8	2568.9	2631.7	2574.6	2563.2	2426.2	2192.2	2117.9
72.5°	1764.0	1843.9	2009.5	2072.3	2078.0	2100.8	2072.3	2032.3	1998.1	1752.6	1678.4
75°	1353.0	1398.6	1478.6	1535.7	1535.7	1564.2	1547.1	1507.1	1415.8	1261.6	1187.4
77.5°	941.9	987.6	1090.4	1124.6	1118.9	1130.3	1079.0	1039.0	902.0	822.1	759.3
80°	685.1	713.6	765.0	787.8	793.5	810.6	747.8	713.6	633.7	542.3	513.8
82.5°	496.7	513.8	519.5	548.0	548.0	519.5	502.4	468.1	411.0	353.9	331.1
85°	205.5	211.2	216.9	251.2	256.9	308.3	285.4	268.3	234.1	199.8	182.7
87.5°	51.4	57.1	74.2	62.8	74.2	74.2	79.9	91.3	91.3	74.2	74.2
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°	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2
2.5°	15567.8	15613.4	16195.7	16269.9	16555.4	16846.5	17434.5	17857.0	18199.5	18422.1	18484.9
5°	13175.8	13466.9	13735.3	14169.1	14563.0	15122.5	15767.6	16566.8	17571.5	18085.3	18290.8
7.5°	10315.7	10658.2	11046.4	11468.9	12045.5	13050.2	13912.2	14837.0	16121.5	16652.4	17457.4
10°	8420.4	8802.9	9316.7	9642.1	10338.5	11297.6	12302.4	13369.9	14597.3	15362.2	16292.8
12.5°	7444.2	7758.2	8232.0	8917.1	9436.6	10058.8	10806.7	12153.9	13912.2	14637.2	15276.6
15°	6365.3	6713.5	7261.5	8020.8	8643.0	9385.2	10224.4	11691.5	13564.0	14682.9	15225.2
17.5°	5474.7	5725.9	6302.5	6959.0	7672.6	8483.2	9687.7	11668.7	13929.4	15362.2	16247.1
20°	4858.1	4892.4	5206.4	5765.8	6736.3	7792.4	9356.6	11554.5	15099.6	16532.5	17651.5
22.5°	4470.0	4435.7	4441.4	4915.2	5594.6	7113.1	8837.1	11942.7	16429.8	18393.6	19147.1
25°	4275.9	4184.5	4127.4	4230.2	4846.7	6308.2	8443.2	12456.5	17862.7	19929.2	20854.1
27.5°	4173.1	4013.3	3899.1	3916.2	4367.2	5902.8	8197.8	12679.1	19284.2	22070.0	22395.4
30°	4133.1	3933.3	3767.8	3710.7	4007.5	5337.7	7672.6	13061.6	20557.2	23246.0	23525.8
32.5°	3990.4	3744.9	3585.1	3533.7	3653.6	4841.0	7295.8	13335.6	21681.8	24524.8	24427.7
35°	3824.9	3619.3	3419.5	3322.5	3408.1	4521.3	6993.2	13204.3	23006.3	25518.1	25466.7
37.5°	3807.7	3539.4	3373.9	3214.0	3208.3	4127.4	6582.2	13329.9	23851.2	27299.2	26597.1
40°	3659.3	3488.0	3271.1	3139.8	3065.6	3927.6	6182.6	13033.1	25090.0	28018.5	27327.8
42.5°	3665.0	3408.1	3219.7	3065.6	2991.4	3636.5	5908.6	12953.2	25523.8	29188.8	27670.3
45°	3573.7	3322.5	3162.6	2980.0	2940.0	3413.8	5646.0	12582.1	26288.8	29245.9	27242.2
47.5°	3482.3	3259.7	3088.4	2871.5	2780.2	3333.9	5440.4	12273.8	25889.2	28709.3	26648.4
50°	3419.5	3162.6	3002.8	2848.7	2591.8	3196.9	5172.1	12199.6	25329.7	27984.3	25546.7
52.5°	3311.1	3082.7	2917.2	2797.3	2386.3	3071.3	5069.4	12633.5	26014.8	27442.0	25227.0
55°	3208.3	2974.3	2763.0	2529.0	2215.0	2740.2	4783.9	13038.8	27013.8	28692.2	26677.0
57.5°	3099.9	2877.2	2648.9	2369.1	2049.4	2397.7	4487.1	13113.0	25141.3	26517.1	25324.0
60°	2957.1	2671.7	2500.4	2135.1	1872.5	1986.6	3556.6	11560.2	19501.1	22144.2	22184.2
62.5°	2797.3	2489.0	2340.6	1912.4	1689.8	1712.6	2900.0	9716.3	15818.9	18330.8	19421.2
65°	2586.1	2289.2	2112.2	1769.7	1558.5	1484.3	2123.7	7118.8	12016.9	14871.3	16110.1
67.5°	2312.0	2032.3	1809.7	1541.4	1392.9	1273.1	1450.0	4007.5	7096.0	9984.6	10361.4
70°	2020.9	1781.1	1547.1	1324.4	1158.9	1073.2	1061.8	1775.4	3391.0	5371.9	6114.1
72.5°	1592.7	1421.5	1233.1	1067.5	959.1	833.5	759.3	736.4	1147.5	2186.5	3019.9
75°	1141.8	999.0	890.6	782.1	702.2	633.7	576.6	525.2	479.5	548.0	753.6
77.5°	719.3	667.9	582.3	553.7	508.1	491.0	468.1	439.6	405.3	382.5	382.5
80°	485.2	451.0	422.4	416.7	399.6	393.9	399.6	371.1	336.8	308.3	319.7
82.5°	325.4	319.7	314.0	308.3	314.0	319.7	331.1	325.4	296.9	279.7	285.4
85°	194.1	205.5	216.9	228.4	251.2	222.6	182.7	154.1	137.0	125.6	119.9
87.5°	74.2	102.8	91.3	85.6	91.3	85.6	79.9	74.2	62.8	57.1	57.1
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: P533126

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2	17480.2
2.5°	18901.7	19015.8	19112.9	19090.1	18890.3	18621.9	18513.5	17959.7	17845.6	17771.3
5°	19158.6	19820.8	19963.5	19877.9	19358.4	18701.9	18062.5	17251.8	16778.0	16760.9
7.5°	18684.7	19501.1	19758.0	19952.1	19261.3	18119.6	17023.5	15807.5	15510.7	15533.5
10°	17480.2	18781.8	19415.5	19615.3	18821.7	17834.1	16315.6	15082.5	14448.8	14437.4
12.5°	16812.3	17834.1	18011.1	18290.8	18056.8	17057.7	15904.6	14523.1	13906.5	13895.1
15°	16218.6	16892.2	16943.6	17337.5	17463.1	16789.4	16013.0	14540.2	14043.5	13992.1
17.5°	16738.1	16269.9	16075.8	16127.2	16498.3	16743.8	16641.0	15510.7	15002.6	14717.2
20°	17086.3	16041.6	15453.6	15510.7	15950.2	16846.5	17577.2	16915.0	16110.1	16144.3
22.5°	18016.8	16075.8	15156.7	15093.9	15790.4	17383.1	18633.4	18690.4	17914.1	17725.7
25°	19409.8	16469.7	15065.4	15048.3	15716.2	17959.7	19866.5	20791.3	19997.8	19649.5
27.5°	20528.7	17086.3	15350.8	15407.9	15950.2	18427.8	20916.9	22144.2	21539.1	21111.0
30°	21510.6	17725.7	15750.4	15487.8	16578.2	18673.3	21367.9	23685.6	23200.4	22846.4
32.5°	21915.9	18633.4	16384.1	15950.2	17097.7	18970.2	22304.1	25181.3	24764.6	23891.1
35°	22600.9	19141.4	16726.6	16692.4	18005.4	19683.8	22743.7	26168.9	25997.6	25221.3
37.5°	23149.0	19655.2	17942.6	17565.8	19249.9	20882.6	23451.5	27533.3	27139.4	26774.0
40°	23571.4	20574.3	19078.6	19575.3	20779.9	21973.0	24102.3	27618.9	28755.0	27693.1
42.5°	23183.2	21396.4	20945.4	22132.8	23274.6	23217.5	24176.6	28281.1	29131.8	28578.0
45°	23086.2	22789.3	23896.8	24975.8	25238.4	24250.8	23645.6	27550.4	29017.6	28772.1
47.5°	22852.1	24159.4	26089.0	27847.3	27447.7	24941.5	23012.0	27419.1	29086.1	28646.5
50°	22772.2	24456.3	27710.3	29422.9	29183.1	25540.9	22715.1	26574.2	28600.8	28560.9
52.5°	22766.5	25067.1	28383.9	30279.2	30427.6	26488.6	23120.4	27002.4	28977.6	29314.4
55°	23023.4	24873.0	28298.3	29805.4	29748.3	26066.2	23166.1	27287.8	29440.0	29771.1
57.5°	21716.1	22281.3	23354.5	24547.6	24239.4	21590.5	20688.5	25227.0	27019.5	26779.7
60°	18753.2	16983.5	15773.3	15716.2	15116.8	14289.0	16932.2	22515.3	22515.3	22281.3
62.5°	16424.1	11149.2	9579.3	9134.0	9562.2	10515.5	16332.7	21898.8	21276.5	21008.2
65°	14363.2	8511.7	6924.7	6799.1	7541.3	8979.9	14768.5	18656.2	17560.1	16669.6
67.5°	9242.5	6234.0	5149.3	4926.7	5822.9	6593.6	9830.5	11474.6	10783.8	10435.6
70°	5959.9	4058.9	2865.8	2688.8	3037.1	4064.6	6279.6	6690.7	5685.9	5451.9
72.5°	2820.1	1752.6	1004.7	827.8	930.5	1552.8	2483.3	2671.7	2220.7	2032.3
75°	896.3	645.1	411.0	353.9	336.8	399.6	570.9	439.6	319.7	314.0
77.5°	399.6	382.5	325.4	274.0	239.8	199.8	165.6	137.0	142.7	148.4
80°	331.1	302.6	268.3	239.8	199.8	154.1	119.9	91.3	91.3	97.0
82.5°	291.1	262.6	234.1	199.8	171.3	125.6	91.3	62.8	57.1	57.1
85°	125.6	148.4	159.8	171.3	137.0	102.8	62.8	40.0	34.3	34.3
87.5°	51.4	45.7	40.0	34.3	28.5	28.5	22.8	17.1	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)