

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: P532137

Luminaire Tested: **GALN-SA7C-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532137  
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-SA7C-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA 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: 22640 lumens  
Efficiency: N/A  
Efficacy: 60.1 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

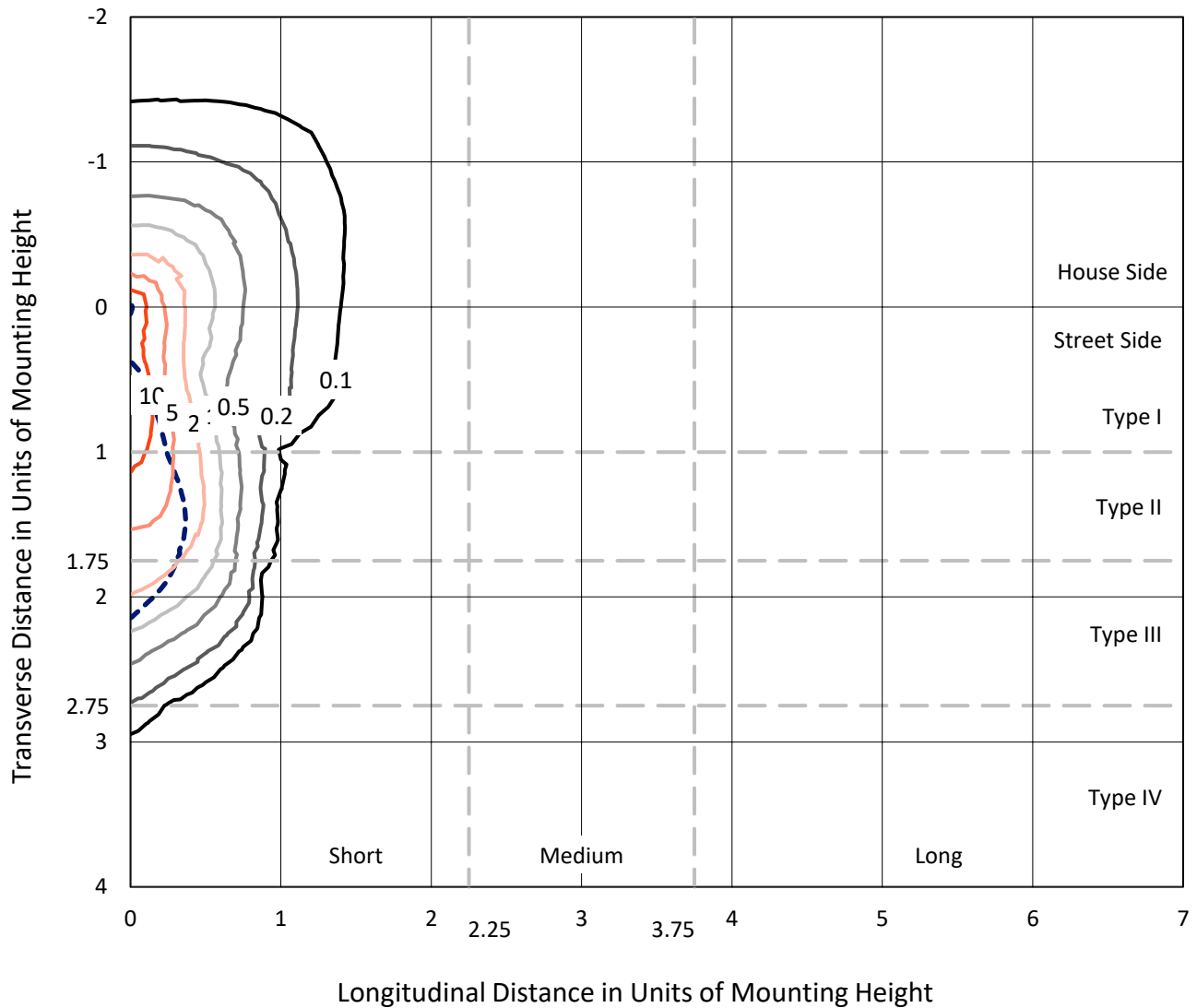
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

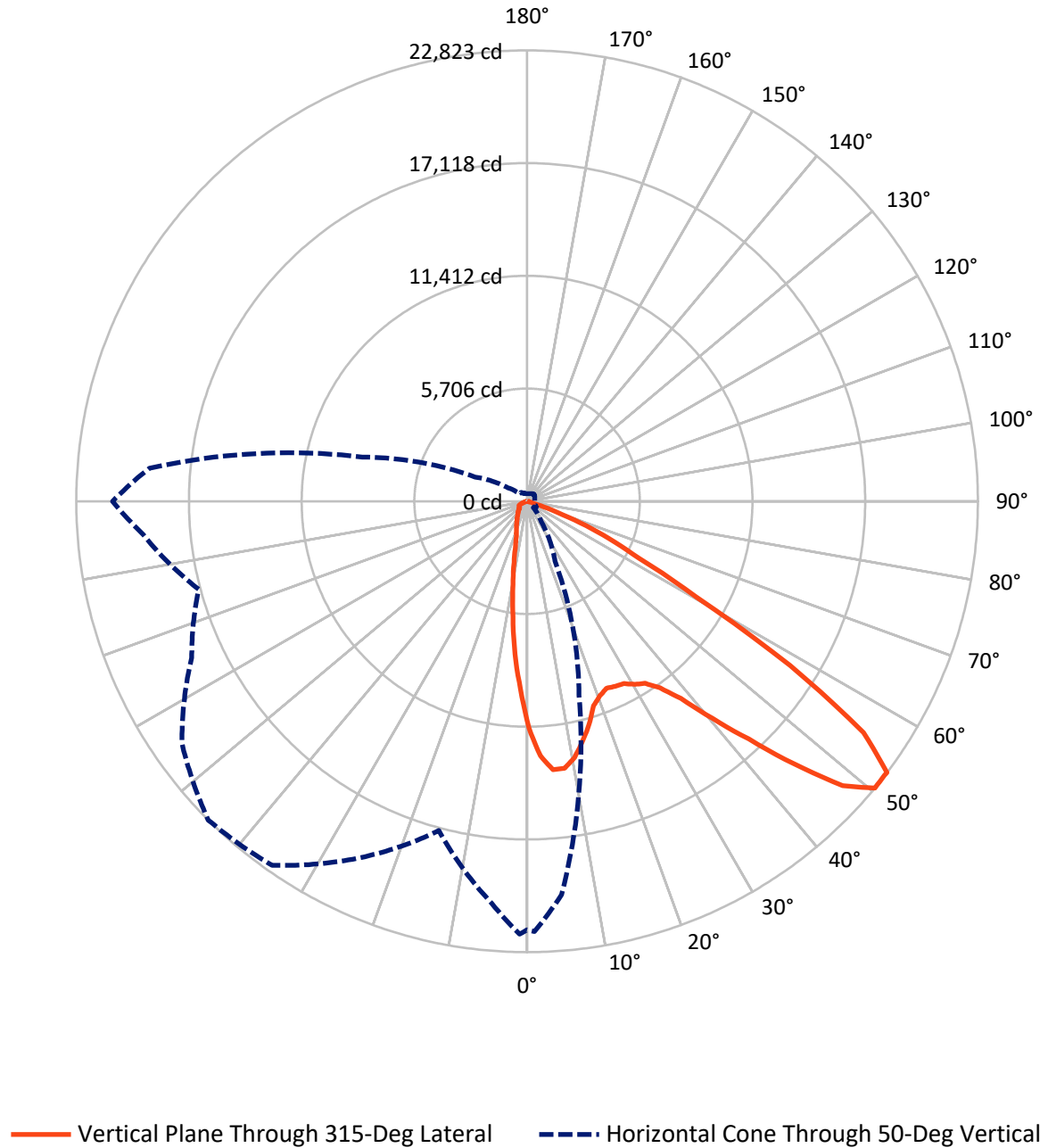
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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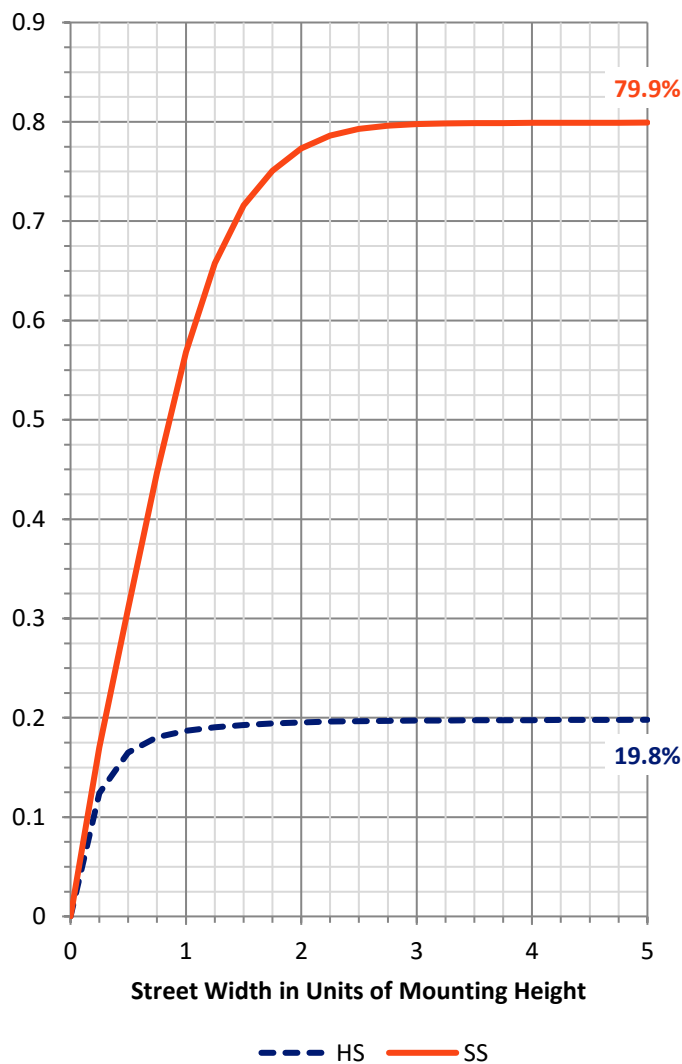
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4534.8	0.0	4534.8
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	18105.2	0.0	18105.2
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	22640.0	0.0	22640.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	836.9	3.7
10°-20°	1663.2	7.3
20°-30°	2498.7	11.0
30°-40°	3750.5	16.6
40°-50°	5271.0	23.3
50°-60°	5685.7	25.1
60°-70°	2639.9	11.7
70°-80°	248.4	1.1
80°-90°	45.8	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°	22640.0	100.0
0°-180°	22640.0	100.0

**Coefficient of Utilization**



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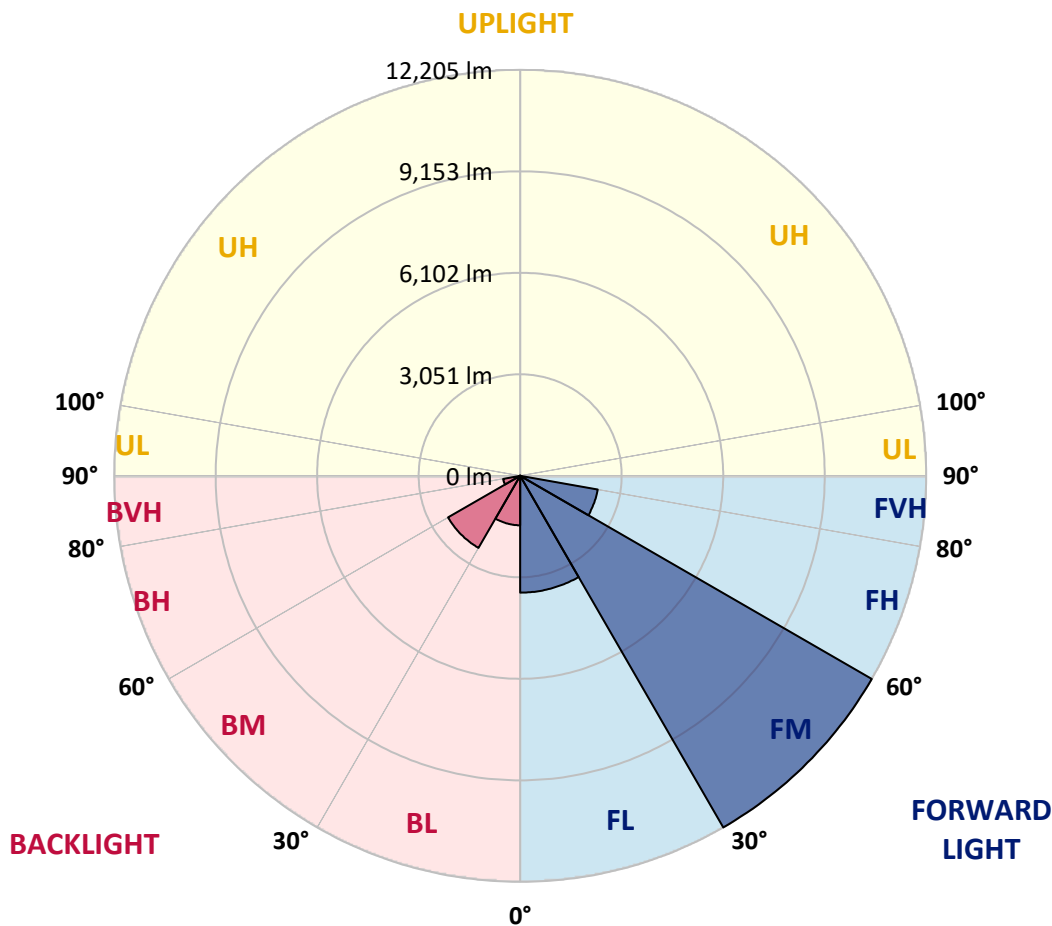
CATALOG NUMBER: GALN-SA7C-727-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3512.4	15.5			
FM (30°-60°)	12204.7	53.9			
FH (60°-80°)	2367.5	10.5			G2/5000
FVH (80°-90°)	20.6	0.1			G1/100
BL (0°-30°)	1486.4	6.6	B3/2500		
BM (30°-60°)	2502.5	11.1	B3/5000		
BH (60°-80°)	520.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	25.2	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°	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3
2.5°	11935.0	11750.8	11517.3	11324.1	11036.6	10457.2	10300.0	10111.3	9954.1	9743.0	9446.5
5°	10852.5	10794.1	10686.3	9958.6	9433.0	8732.3	8157.3	7914.8	7595.8	7335.3	7146.6
7.5°	10026.0	9792.4	9451.0	8718.8	7878.8	7128.7	6490.8	6118.0	5695.7	5552.0	5296.0
10°	9141.0	9194.9	8691.9	7663.2	6648.0	6041.6	5646.3	5287.0	4905.2	4653.6	4289.8
12.5°	8858.1	8682.9	8296.6	7025.4	6158.4	5592.4	5111.8	4667.1	4262.8	3858.6	3508.2
15°	9042.2	8772.7	8233.7	6890.6	5781.1	5075.9	4473.9	3872.0	3499.2	2982.6	2618.8
17.5°	9702.5	9486.9	8763.7	7034.3	5587.9	4581.8	3687.9	3068.0	2497.5	2030.3	1846.2
20°	10803.1	10497.6	9590.2	7218.5	5300.5	3984.3	2991.6	2228.0	1689.0	1491.3	1388.0
22.5°	11881.1	11714.9	10569.5	7573.4	5044.4	3454.3	2246.0	1500.3	1262.2	1226.3	1158.9
25°	13933.9	13435.3	12065.3	8215.7	4846.8	2955.7	1693.5	1208.3	1069.1	1042.1	1051.1
27.5°	15155.7	14738.0	13448.8	8642.4	4626.7	2573.9	1432.9	1109.5	1015.2	956.8	934.3
30°	16328.1	15843.0	14136.1	8894.0	4155.0	2169.6	1271.2	1064.6	1042.1	956.8	929.8
32.5°	17231.0	16754.8	15128.8	9271.3	3961.9	1909.1	1046.6	831.0	772.6	763.6	844.5
35°	18614.5	18106.9	15977.7	9477.9	3813.6	1774.3	907.4	741.2	673.8	646.8	651.3
37.5°	19903.7	19557.8	16763.8	9558.8	3656.4	1733.9	813.0	664.8	606.4	588.4	583.9
40°	20981.7	20209.1	17509.5	9644.1	3589.0	1657.5	754.6	606.4	566.0	539.0	539.0
42.5°	21475.8	20689.8	18345.0	9594.7	3571.1	1536.2	754.6	557.0	525.6	498.6	494.1
45°	21368.0	21049.1	18717.8	9572.3	3571.1	1415.0	687.3	543.5	498.6	462.7	453.7
47.5°	21646.5	21228.8	19185.0	9666.6	3499.2	1329.6	579.5	570.5	471.7	426.7	417.7
50°	21695.9	21776.8	19998.0	10156.2	3342.0	1221.8	453.7	561.5	453.7	386.3	377.3
52°	22019.4	21516.3	20245.1	10416.8	3175.8	1140.9	381.8	480.6	435.7	359.4	350.4
52.5°	21574.7	21902.6	20303.5	10511.1	3193.8	1087.0	368.3	471.7	426.7	359.4	336.9
55°	21076.1	21390.5	20065.4	10713.2	2928.7	853.5	287.5	341.4	386.3	314.4	301.0
57.5°	18318.0	18637.0	17437.6	9810.3	2385.2	601.9	238.1	256.0	341.4	292.0	278.5
60°	16283.2	16054.1	14634.7	8184.3	1693.5	336.9	188.7	197.6	372.8	269.5	265.0
62.5°	14881.7	14392.1	12231.5	6320.1	1033.1	224.6	148.2	152.7	287.5	251.5	251.5
65°	11009.7	10461.7	8125.9	3822.6	507.6	157.2	112.3	121.3	179.7	215.6	215.6
67.5°	6284.2	6073.1	3925.9	1724.9	211.1	98.8	85.3	94.3	139.2	175.2	166.2
70°	2888.3	2591.8	1509.3	363.8	98.8	67.4	67.4	76.4	112.3	130.3	121.3
72.5°	844.5	799.6	368.3	58.4	40.4	40.4	44.9	58.4	85.3	98.8	89.8
75°	62.9	40.4	27.0	18.0	18.0	27.0	35.9	58.4	85.3	94.3	76.4
77.5°	4.5	9.0	4.5	4.5	13.5	27.0	40.4	71.9	112.3	116.8	85.3
80°	4.5	4.5	0.0	4.5	13.5	27.0	44.9	80.9	125.8	134.8	71.9
82.5°	0.0	0.0	0.0	4.5	18.0	35.9	53.9	85.3	116.8	143.7	76.4
85°	0.0	0.0	0.0	4.5	27.0	49.4	62.9	22.5	13.5	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°	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3
2.5°	9657.6	9540.8	9495.9	9536.3	9522.9	9509.4	9756.4	9702.5	9693.6	9774.4	9756.4
5°	7250.0	7043.3	7609.3	7380.2	7618.3	7762.0	7789.0	7802.5	7968.7	7793.5	8022.6
7.5°	5165.7	5219.6	5215.1	5367.8	5641.8	5884.4	6028.1	5915.9	5906.9	5884.4	5785.6
10°	4128.1	4033.7	4015.8	3979.8	4065.2	4271.8	4447.0	4307.7	4208.9	4343.7	4303.3
12.5°	3373.4	3243.2	3171.3	3027.6	3032.0	3171.3	3171.3	3171.3	3270.1	3346.5	3404.9
15°	2587.3	2479.5	2479.5	2335.8	2304.4	2308.8	2380.7	2389.7	2546.9	2591.8	2614.3
17.5°	1810.2	1751.8	1819.2	1877.6	1841.7	1850.7	1877.6	1886.6	1909.1	1891.1	1936.0
20°	1392.5	1383.5	1401.5	1504.8	1581.2	1626.1	1594.6	1549.7	1522.8	1459.9	1459.9
22.5°	1181.4	1199.3	1230.8	1316.1	1415.0	1441.9	1406.0	1302.7	1221.8	1212.8	1217.3
25°	1051.1	1069.1	1118.5	1172.4	1226.3	1271.2	1235.3	1158.9	1114.0	1073.6	1073.6
27.5°	970.3	979.2	1006.2	1046.6	1091.5	1127.5	1114.0	1073.6	1024.2	1006.2	965.8
30°	907.4	920.8	952.3	961.3	1001.7	1019.7	997.2	988.2	956.8	934.3	920.8
32.5°	875.9	871.4	893.9	902.9	907.4	920.8	893.9	907.4	902.9	866.9	853.5
35°	660.3	696.2	754.6	804.1	817.5	835.5	831.0	813.0	763.6	723.2	673.8
37.5°	592.9	615.4	646.8	687.3	741.2	763.6	754.6	709.7	651.3	624.4	615.4
40°	548.0	561.5	588.4	615.4	669.3	709.7	678.3	637.9	592.9	570.5	557.0
42.5°	507.6	512.1	525.6	552.5	592.9	655.8	601.9	548.0	530.0	516.6	507.6
45°	462.7	462.7	480.6	494.1	539.0	597.4	543.5	494.1	485.1	476.1	471.7
47.5°	426.7	431.2	440.2	458.2	494.1	534.5	498.6	458.2	435.7	431.2	422.2
50°	381.8	386.3	404.3	422.2	467.2	489.6	467.2	422.2	399.8	386.3	386.3
52°	345.9	359.4	377.3	413.3	444.7	480.6	453.7	404.3	377.3	363.8	354.9
52.5°	341.4	350.4	368.3	408.8	444.7	476.1	449.2	399.8	368.3	359.4	350.4
55°	305.5	318.9	350.4	399.8	440.2	476.1	440.2	395.3	350.4	327.9	318.9
57.5°	292.0	301.0	341.4	404.3	435.7	476.1	440.2	395.3	350.4	309.9	301.0
60°	278.5	296.5	341.4	390.8	431.2	480.6	444.7	390.8	341.4	292.0	292.0
62.5°	265.0	278.5	336.9	381.8	413.3	462.7	426.7	381.8	327.9	278.5	274.0
65°	229.1	251.5	296.5	318.9	354.9	399.8	363.8	332.4	287.5	247.1	242.6
67.5°	175.2	184.2	220.1	247.1	269.5	309.9	292.0	251.5	220.1	188.7	188.7
70°	121.3	130.3	157.2	170.7	193.2	215.6	202.1	170.7	148.2	130.3	125.8
72.5°	85.3	89.8	98.8	107.8	116.8	125.8	121.3	98.8	85.3	80.9	76.4
75°	67.4	76.4	80.9	76.4	71.9	67.4	67.4	58.4	49.4	44.9	44.9
77.5°	67.4	71.9	67.4	58.4	49.4	44.9	40.4	35.9	27.0	22.5	27.0
80°	58.4	58.4	58.4	49.4	44.9	40.4	35.9	31.4	27.0	22.5	22.5
82.5°	62.9	62.9	58.4	49.4	49.4	40.4	40.4	35.9	31.4	22.5	22.5
85°	0.0	0.0	0.0	9.0	22.5	40.4	40.4	35.9	31.4	27.0	27.0
87.5°	0.0	0.0	0.0	0.0	4.5	9.0	18.0	22.5	27.0	27.0	27.0
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°	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3
2.5°	9918.1	10088.8	10412.3	10735.7	10933.3	11166.9	11589.1	11813.7	12105.7	12249.5	12532.4
5°	7991.1	8395.4	8539.1	8907.5	9302.8	9698.0	10326.9	11018.7	11593.6	11988.9	12501.0
7.5°	5830.5	5924.8	6481.8	6728.9	7375.7	8094.4	8952.4	9823.8	10551.5	11198.3	11589.1
10°	4370.6	4716.5	5066.9	5538.5	6059.6	6800.8	7622.8	8584.0	9527.4	10174.2	10668.3
12.5°	3512.7	3786.7	4253.8	4761.4	5403.8	5893.4	6719.9	7672.2	8894.0	9527.4	10178.7
15°	2659.2	3009.6	3539.6	4065.2	4743.5	5260.0	6095.5	7294.9	8867.0	9738.5	10300.0
17.5°	1972.0	2210.0	2686.2	3274.6	3966.4	4694.1	5821.5	7254.4	9168.0	10205.6	10785.1
20°	1509.3	1590.1	1891.1	2416.7	3166.8	4119.1	5376.8	7429.6	10057.4	11342.1	11930.5
22.5°	1221.8	1257.7	1374.5	1738.4	2466.1	3616.0	5165.7	7550.9	11059.1	12703.1	13489.2
25°	1064.6	1055.6	1132.0	1289.2	1927.0	3144.3	4896.2	8009.1	12285.4	14302.3	15007.5
27.5°	970.3	970.3	1006.2	1118.5	1599.1	2838.9	4725.5	8337.0	13520.7	15708.2	16090.0
30°	920.8	929.8	1033.1	1069.1	1329.6	2475.0	4442.5	8669.4	14702.0	16606.6	17132.2
32.5°	853.5	817.5	795.1	884.9	1118.5	2147.1	4159.5	8808.6	15658.8	17707.1	18156.3
35°	655.8	637.9	664.8	732.2	961.3	1868.6	3845.1	8965.9	16759.3	18982.8	19072.7
37.5°	592.9	588.4	606.4	664.8	808.5	1626.1	3620.5	8925.4	17599.3	20038.4	19795.9
40°	548.0	548.0	561.5	610.9	723.2	1455.4	3386.9	8889.5	18412.4	21224.3	20514.6
42.5°	512.1	512.1	534.5	566.0	687.3	1343.1	3211.7	8840.1	19095.1	21952.0	20936.8
45°	462.7	476.1	512.1	543.5	696.2	1266.7	3081.5	8651.4	19328.7	21943.0	20734.7
47.5°	426.7	444.7	480.6	525.6	628.9	1244.3	2991.6	8485.2	19247.9	21404.0	20101.3
50°	386.3	408.8	458.2	534.5	534.5	1199.3	2897.3	8633.5	19189.5	20986.2	19494.9
52°	359.4	377.3	440.2	521.1	467.2	1105.0	2838.9	8920.9	19427.5	20932.3	19225.4
52.5°	354.9	368.3	426.7	512.1	444.7	1087.0	2798.5	8988.3	19503.9	20797.6	19409.6
55°	314.4	332.4	390.8	399.8	363.8	893.9	2668.2	9141.0	19126.6	20532.5	19234.4
57.5°	296.5	305.5	345.9	327.9	314.4	673.8	2295.4	8903.0	16988.4	18237.2	17895.8
60°	274.0	283.0	323.4	256.0	265.0	471.7	1724.9	7730.6	13641.9	15196.1	15811.5
62.5°	265.0	260.5	305.5	206.6	224.6	341.4	1217.3	6284.2	10511.1	12510.0	13574.6
65°	233.6	229.1	220.1	175.2	193.2	265.0	727.7	4101.1	7407.2	9464.5	10048.4
67.5°	179.7	188.7	161.7	139.2	161.7	206.6	404.3	1837.2	3885.5	5677.8	6149.4
70°	125.8	134.8	130.3	121.3	143.7	170.7	233.6	628.9	1608.1	2982.6	3288.1
72.5°	76.4	94.3	98.8	103.3	125.8	148.2	166.2	202.1	426.7	1055.6	1311.6
75°	44.9	62.9	76.4	89.8	103.3	125.8	139.2	143.7	148.2	197.6	318.9
77.5°	31.4	44.9	67.4	85.3	103.3	125.8	148.2	157.2	148.2	139.2	148.2
80°	27.0	44.9	62.9	80.9	107.8	130.3	148.2	148.2	143.7	125.8	134.8
82.5°	27.0	44.9	67.4	85.3	103.3	125.8	143.7	148.2	134.8	125.8	130.3
85°	31.4	49.4	71.9	89.8	112.3	103.3	94.3	76.4	71.9	58.4	62.9
87.5°	31.4	44.9	44.9	49.4	53.9	53.9	53.9	49.4	40.4	35.9	35.9
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: P532137

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3	11481.3
2.5°	12545.9	12905.3	12891.8	12900.8	12846.9	12483.0	12307.8	11863.1	11988.9	11935.0
5°	13026.6	13381.4	13686.9	13650.9	13237.7	12743.6	12011.4	11319.6	11131.0	10852.5
7.5°	12545.9	13399.4	13682.4	13641.9	13031.0	12397.7	11229.8	10538.0	10210.1	10026.0
10°	11782.3	12770.5	13120.9	13192.8	12779.5	11818.2	10744.7	9635.2	9460.0	9141.0
12.5°	11346.6	12065.3	12280.9	12474.0	12330.3	11611.6	10376.3	9311.7	9069.2	8858.1
15°	10991.7	11418.4	11508.3	11728.4	11813.7	11427.4	10569.5	9662.1	9064.7	9042.2
17.5°	11319.6	11144.4	10816.5	10883.9	11153.4	11431.9	11068.1	10353.9	9774.4	9702.5
20°	11863.1	11090.5	10349.4	10515.6	10740.2	11593.6	11822.7	11319.6	10987.2	10803.1
22.5°	12487.5	11184.9	10201.1	10282.0	10708.7	11957.5	13044.5	12766.0	12146.1	11881.1
25°	13641.9	11445.4	10317.9	10371.8	10955.8	12465.1	14149.5	14356.2	13987.8	13933.9
27.5°	14769.4	12119.2	10574.0	10452.7	11081.6	12959.2	14818.8	15928.3	15281.5	15155.7
30°	15344.4	12667.2	10955.8	10749.2	11602.6	13260.1	15223.1	16952.5	16386.5	16328.1
32.5°	16224.8	13165.8	11252.2	10987.2	11894.6	13633.0	15977.7	18071.0	17523.0	17231.0
35°	16593.1	13709.3	11903.6	11593.6	12730.1	14154.0	16364.0	19068.2	18897.5	18614.5
37.5°	17302.9	14293.3	12671.7	12653.7	13740.8	14832.3	17060.3	20424.7	20393.3	19903.7
40°	17361.3	14931.1	13884.5	14450.5	15304.0	16013.7	17671.2	20802.1	21314.1	20981.7
42.5°	17451.1	16049.6	15982.2	16449.4	17181.6	17028.8	17693.7	20891.9	21673.5	21475.8
45°	17491.5	17168.1	18115.9	18978.3	19283.8	18358.5	17482.5	20721.2	21862.1	21368.0
47.5°	17168.1	18129.4	19840.8	21507.3	21597.1	19176.0	17392.7	20546.0	21974.4	21646.5
50°	17213.0	18731.3	21332.1	22823.4	22495.5	19899.2	17253.4	20438.2	21916.1	21695.9
52°	17105.2	18744.8	21543.2	22796.5	22567.4	19499.4	17015.4	20025.0	21862.1	22019.4
52.5°	17226.5	18663.9	21323.1	22814.4	22518.0	19697.0	16983.9	20254.0	21893.6	21574.7
55°	16808.7	17702.6	20033.9	20667.3	20622.4	17877.8	16018.2	19494.9	21071.6	21076.1
57.5°	15191.7	15344.4	15712.7	15699.2	15492.6	14055.2	13700.3	17927.2	18785.2	18318.0
60°	13385.9	11234.3	10241.6	9837.3	9608.2	9374.6	12119.2	16400.0	16480.8	16283.2
62.5°	11566.7	7789.0	6468.4	6356.1	6410.0	7263.4	11714.9	15793.6	15308.4	14881.7
65°	9334.2	5677.8	4698.5	4550.3	5075.9	5996.7	9482.4	12110.2	11364.5	11009.7
67.5°	5861.9	4141.5	3175.8	2897.3	3530.6	4128.1	6230.3	7609.3	6773.8	6284.2
70°	3476.7	2313.3	1437.4	1289.2	1450.9	2201.0	3490.2	3795.7	3139.8	2888.3
72.5°	1370.0	849.0	399.8	341.4	354.9	772.6	1284.7	1253.2	947.8	844.5
75°	368.3	256.0	139.2	112.3	94.3	143.7	206.6	134.8	49.4	62.9
77.5°	170.7	152.7	121.3	94.3	71.9	53.9	27.0	9.0	9.0	4.5
80°	148.2	130.3	112.3	94.3	71.9	44.9	22.5	4.5	4.5	4.5
82.5°	139.2	121.3	103.3	85.3	67.4	44.9	22.5	4.5	0.0	0.0
85°	58.4	76.4	85.3	80.9	71.9	44.9	22.5	4.5	0.0	0.0
87.5°	31.4	27.0	22.5	18.0	13.5	9.0	9.0	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

(END OF REPORT)