

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: P454525

Luminaire Tested: **GALN-SA5C-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18587 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

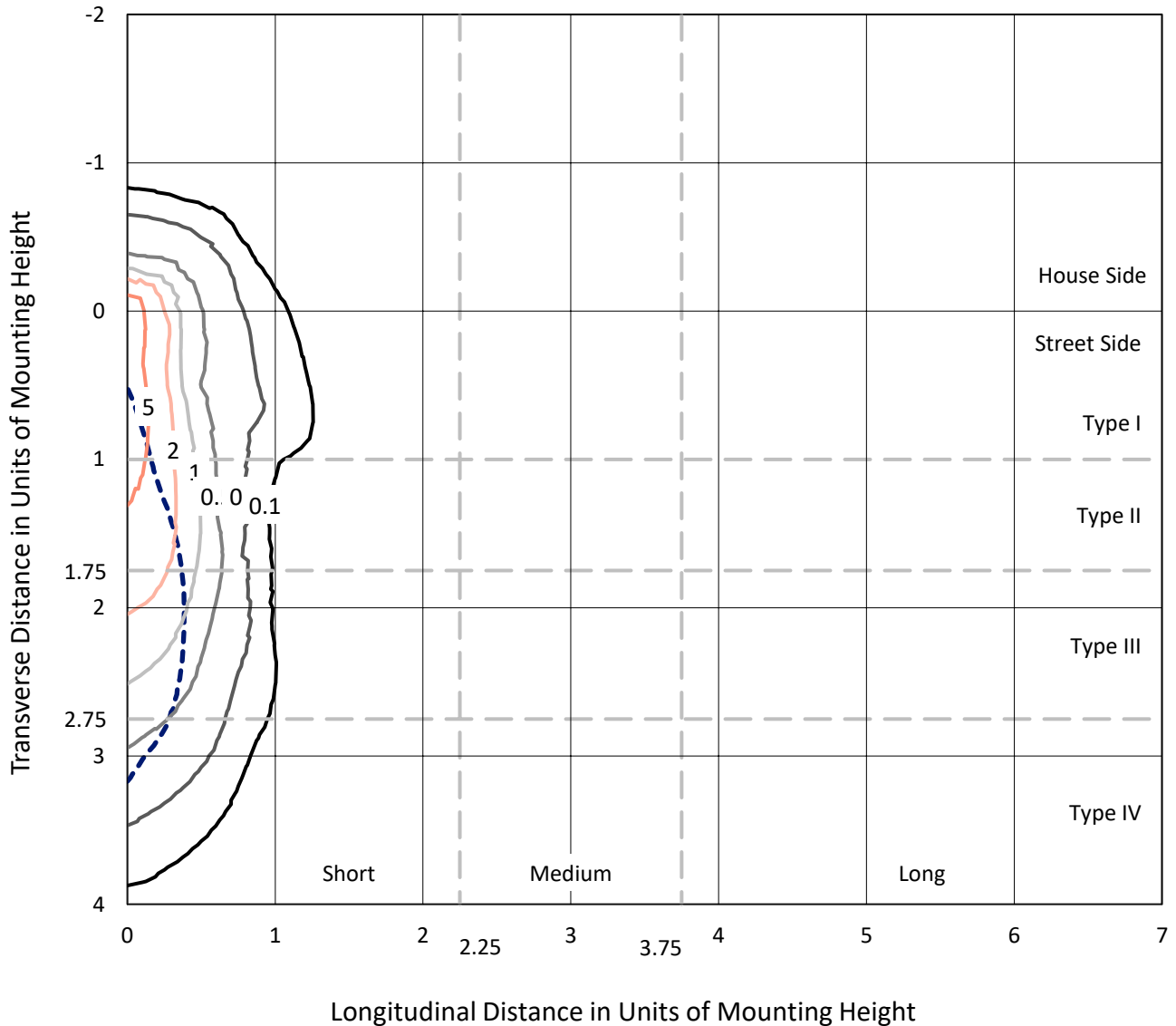
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

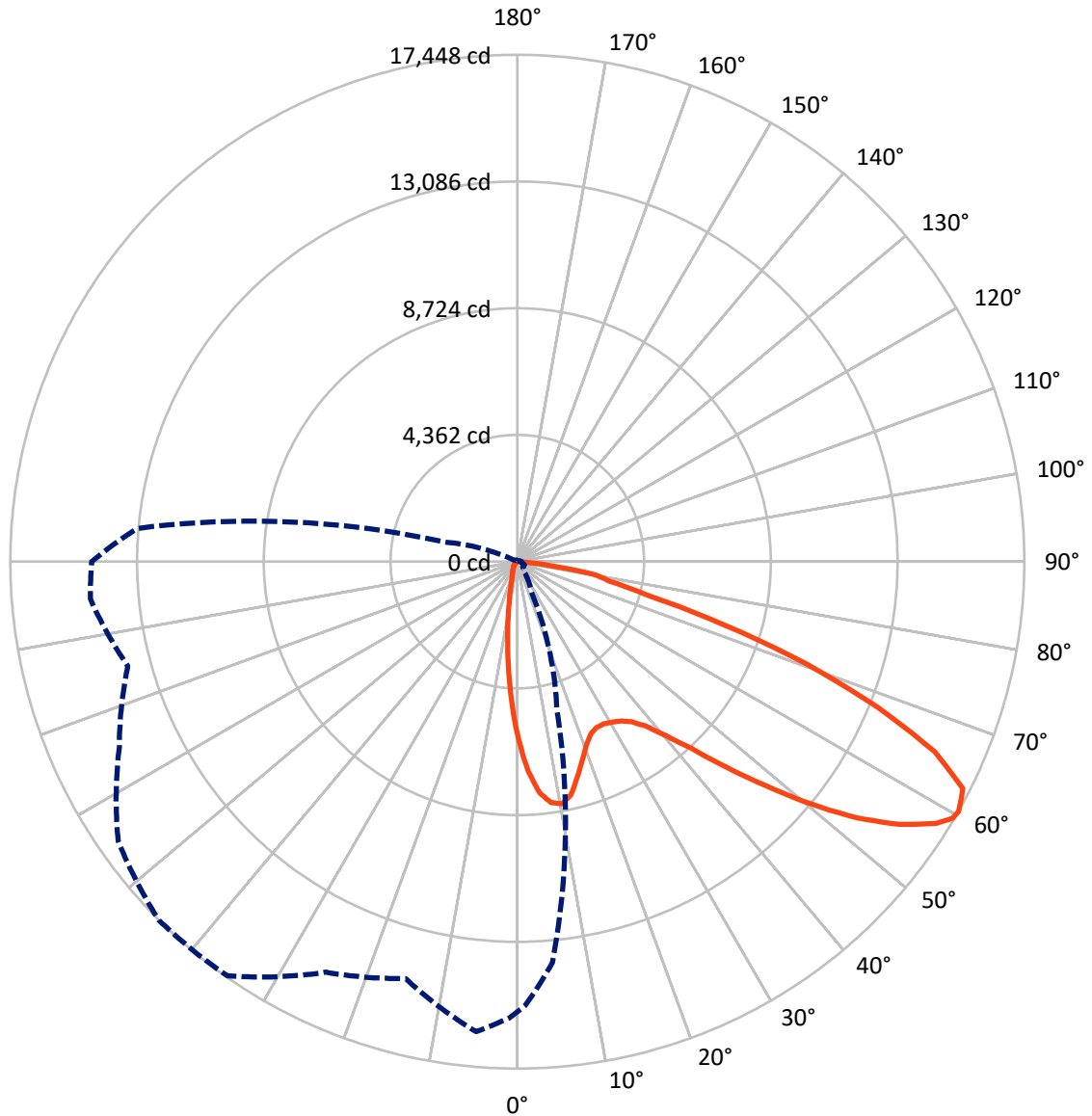
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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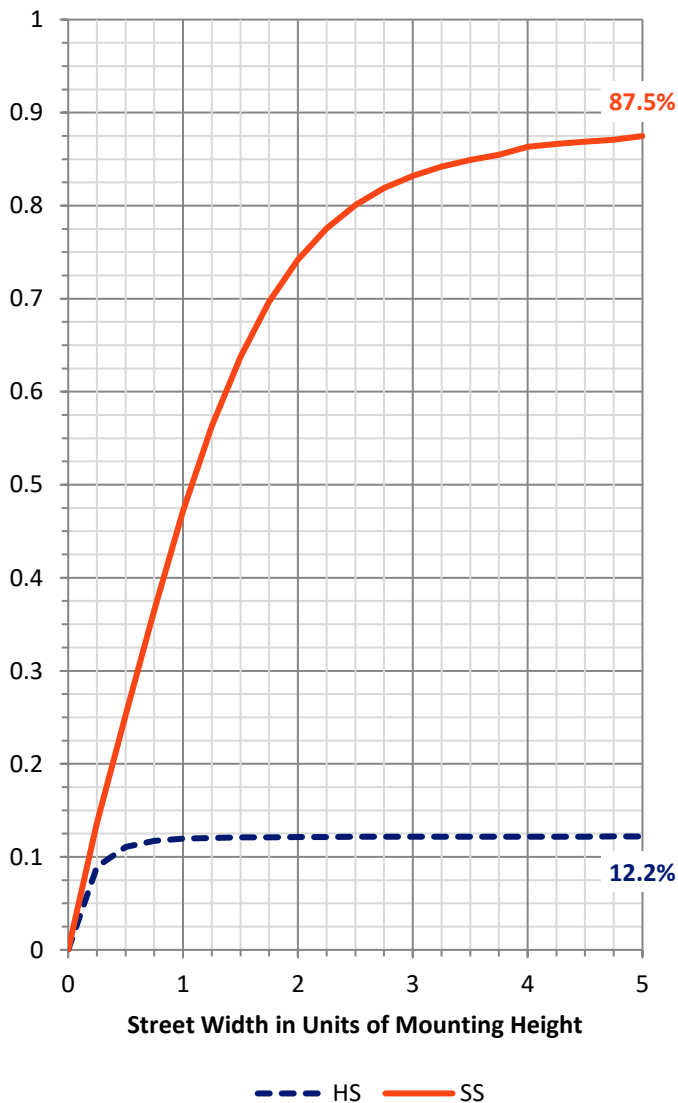
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2292.5	0.0	2292.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16294.5	0.0	16294.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	18587.0	0.0	18587.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.9	2.5
10°-20°	907.4	4.9
20°-30°	1330.6	7.2
30°-40°	1978.8	10.6
40°-50°	2879.7	15.5
50°-60°	4152.8	22.3
60°-70°	4567.6	24.6
70°-80°	2045.9	11.0
80°-90°	267.3	1.4
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°	18587.0	100.0
0°-180°	18587.0	100.0



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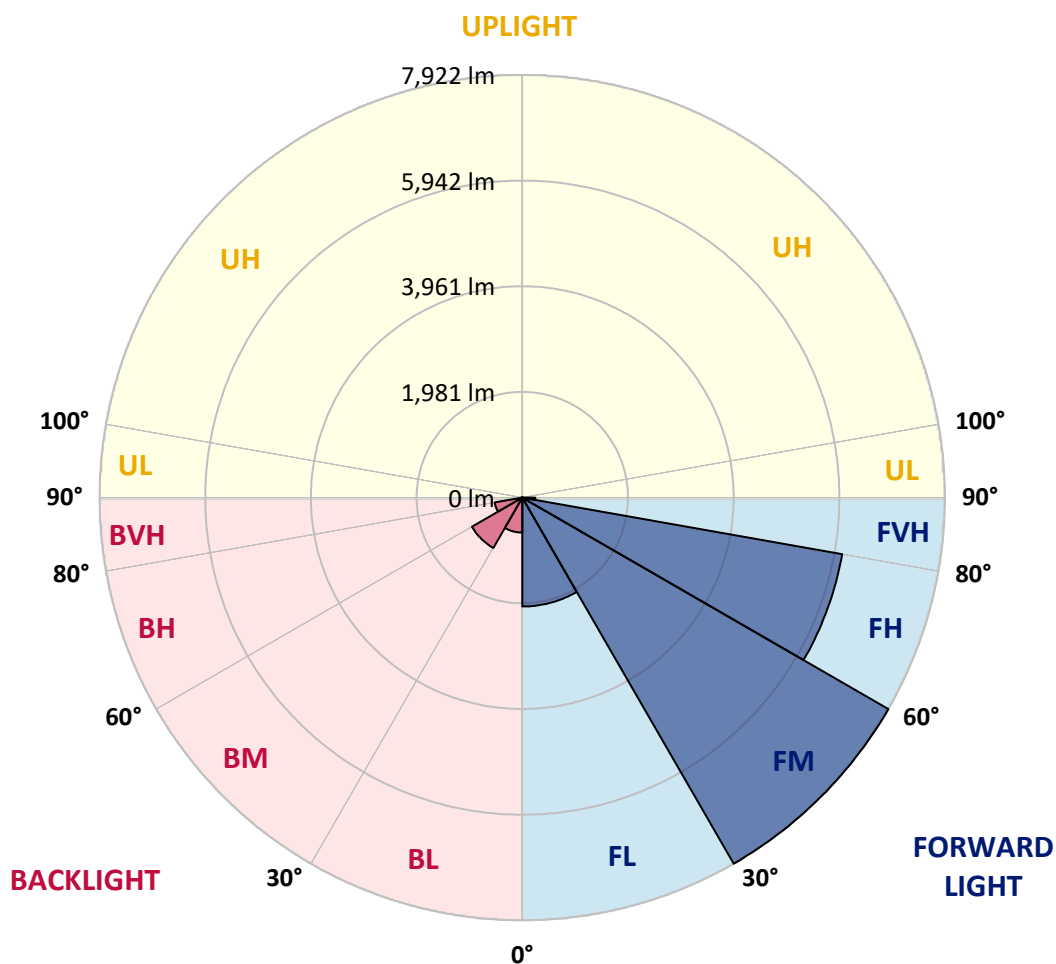
CATALOG NUMBER: GALN-SA5C-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2039.9	11.0			
FM	(30°-60°)	7922.3	42.6			
FH	(60°-80°)	6087.8	32.8			G3/7500
FVH	(80°-90°)	244.5	1.3			G3/500
BL	(0°-30°)	655.0	3.5	B2/1000		
BM	(30°-60°)	1088.9	5.9	B2/2500		
BH	(60°-80°)	525.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	22.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3
2.5°	6753.6	6724.0	6656.2	6449.9	6270.4	6035.9	5798.5	5612.0	5497.6	5287.1	5191.0
5°	6543.1	6557.2	6360.9	5937.0	5465.1	5142.9	4791.1	4511.4	4203.4	4008.4	3803.5
7.5°	5993.5	5965.2	5751.9	5161.3	4587.7	4121.4	3676.4	3314.7	3087.2	2904.9	2752.3
10°	5523.0	5501.8	5229.1	4469.0	3853.0	3504.0	3203.0	2886.5	2642.1	2375.1	2161.7
12.5°	5227.7	5179.7	4866.0	4072.0	3570.4	3245.4	2917.6	2588.4	2250.7	1980.9	1722.3
15°	5128.8	5059.6	4710.6	3934.9	3389.5	2977.0	2565.8	2187.2	1798.6	1500.5	1305.5
17.5°	5308.2	5193.8	4822.2	3910.9	3173.4	2626.6	2120.8	1627.7	1223.6	996.1	876.0
20°	5719.4	5588.0	5104.8	3886.9	2933.2	2233.8	1612.1	1150.1	846.3	722.0	655.6
22.5°	6329.8	6148.9	5523.0	3925.0	2711.3	1850.9	1164.2	812.4	672.5	594.8	548.2
25°	7063.1	6911.9	6052.8	4060.7	2536.1	1549.9	900.0	664.1	566.6	518.5	483.2
27.5°	7867.0	7625.4	6738.1	4223.1	2376.5	1316.8	789.8	593.4	504.4	460.6	442.2
30°	8439.2	8251.3	7311.7	4336.2	2177.3	1141.6	722.0	584.9	505.8	453.5	419.6
32.5°	9004.4	8764.2	7792.1	4388.5	2031.7	1020.1	624.5	510.1	443.6	416.8	382.9
35°	9609.1	9357.6	8271.1	4360.2	1923.0	939.6	566.6	455.0	380.1	334.9	300.9
37.5°	10220.9	9955.3	8747.2	4258.5	1855.1	907.1	521.4	432.3	358.9	312.2	275.5
40°	10947.1	10592.5	9193.7	4175.1	1784.5	890.1	491.7	418.2	343.3	293.9	257.1
42.5°	11540.5	11202.8	9616.2	4131.3	1736.4	850.6	491.7	406.9	333.4	278.3	240.2
45°	12102.9	11752.5	10072.5	4166.6	1716.7	801.1	497.3	405.5	326.4	267.0	228.9
47.5°	12573.4	12269.6	10541.6	4299.4	1691.2	747.4	467.7	425.3	322.1	257.1	217.6
50°	13128.6	12834.7	11161.9	4567.9	1646.0	693.7	430.9	457.8	320.7	248.7	207.7
52.5°	13911.4	13593.5	12018.1	4873.1	1574.0	611.8	397.0	453.5	315.1	234.5	197.8
55°	14867.9	14610.8	13009.9	5239.0	1475.1	519.9	343.3	402.7	298.1	210.5	180.9
57.5°	15481.1	15262.1	13753.1	5397.3	1323.9	425.3	302.4	337.7	272.7	187.9	161.1
59°	15553.2	15355.3	13908.5	5345.0	1225.0	388.5	282.6	289.6	265.6	175.2	149.8
60°	15492.4	15287.5	13846.4	5243.3	1133.1	363.1	265.6	257.1	267.0	168.1	141.3
62.5°	15102.4	14752.0	13243.1	4727.5	990.4	333.4	236.0	210.5	236.0	151.2	125.7
65°	14349.4	13823.8	12049.2	4001.3	933.9	316.5	200.6	176.6	179.4	132.8	108.8
67.5°	13034.0	12371.3	10459.7	3251.1	909.9	317.9	169.5	158.2	138.5	113.0	96.1
70°	10954.2	10292.9	8392.6	2674.6	898.6	317.9	144.1	135.6	115.9	94.7	83.4
72.5°	7762.4	7050.3	5661.5	2101.0	809.6	316.5	122.9	122.9	94.7	79.1	67.8
75°	4385.6	4391.3	3559.1	1486.4	672.5	261.4	98.9	97.5	69.2	60.8	50.9
77.5°	2555.9	2510.7	2399.1	638.6	312.2	118.7	69.2	59.3	48.0	43.8	36.7
80°	1314.0	1080.9	1052.6	231.7	111.6	74.9	48.0	33.9	31.1	28.3	25.4
82.5°	388.5	390.0	347.6	93.3	62.2	49.5	24.0	18.4	17.0	15.5	15.5
85°	26.8	17.0	19.8	28.3	38.1	19.8	1.4	4.2	4.2	5.7	7.1
87.5°	2.8	1.4	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°	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3
2.5°	5085.0	5147.2	5031.3	5034.1	4938.1	4969.2	4856.1	4892.9	4826.5	4877.3	5027.1
5°	3826.1	3840.2	3747.0	3717.3	3731.5	3789.4	3812.0	3708.9	3752.7	3666.5	3660.8
7.5°	2695.8	2712.8	2659.1	2652.0	2753.7	2729.7	2773.5	2667.5	2567.2	2611.0	2530.5
10°	2093.9	2023.3	1913.1	1882.0	1862.2	1874.9	1874.9	1778.8	1764.7	1726.6	1784.5
12.5°	1653.1	1566.9	1462.3	1321.1	1285.7	1282.9	1230.6	1145.9	1119.0	1086.5	1134.6
15°	1201.0	1165.6	1078.0	998.9	918.4	902.8	818.1	748.8	657.0	644.3	640.0
17.5°	844.9	792.6	791.2	746.0	699.4	668.3	589.2	510.1	474.7	470.5	470.5
20°	633.0	614.6	584.9	579.3	565.2	529.8	459.2	416.8	399.8	401.3	406.9
22.5°	532.7	519.9	493.1	480.4	474.7	443.6	391.4	363.1	354.6	354.6	356.0
25°	476.1	464.8	435.2	415.4	408.3	385.7	344.7	323.6	316.5	316.5	316.5
27.5°	433.8	419.6	388.5	371.6	358.9	333.4	308.0	286.8	279.8	279.8	281.2
30°	404.1	388.5	360.3	337.7	317.9	295.3	274.1	255.7	247.3	245.8	247.3
32.5°	364.5	350.4	322.1	308.0	285.4	258.6	241.6	224.7	216.2	217.6	216.2
35°	284.0	279.8	260.0	264.2	251.5	228.9	213.3	195.0	185.1	183.7	186.5
37.5°	258.6	241.6	219.0	220.4	216.2	207.7	182.3	162.5	155.4	155.4	156.8
40°	238.8	221.8	196.4	183.7	185.1	185.1	158.2	137.1	130.0	128.6	131.4
42.5°	221.8	204.9	176.6	155.4	149.8	156.8	134.2	113.0	106.0	103.1	106.0
45°	210.5	192.2	159.7	135.6	118.7	127.2	110.2	93.3	84.8	84.8	83.4
47.5°	199.2	182.3	146.9	117.3	98.9	94.7	90.4	74.9	66.4	65.0	66.4
50°	189.3	172.4	132.8	101.7	83.4	73.5	73.5	59.3	53.7	50.9	52.3
52.5°	179.4	161.1	120.1	90.4	72.1	59.3	52.3	48.0	43.8	42.4	43.8
55°	165.3	146.9	107.4	77.7	62.2	49.5	41.0	39.6	36.7	33.9	36.7
57.5°	148.4	131.4	94.7	66.4	49.5	38.1	33.9	32.5	29.7	28.3	28.3
59°	138.5	122.9	87.6	57.9	43.8	33.9	31.1	29.7	26.8	24.0	25.4
60°	132.8	120.1	83.4	53.7	39.6	31.1	28.3	26.8	24.0	22.6	24.0
62.5°	117.3	107.4	73.5	43.8	31.1	22.6	19.8	21.2	19.8	18.4	19.8
65°	103.1	94.7	62.2	33.9	24.0	15.5	14.1	18.4	17.0	15.5	17.0
67.5°	91.8	81.9	52.3	25.4	17.0	8.5	9.9	15.5	15.5	14.1	15.5
70°	79.1	70.6	42.4	18.4	8.5	4.2	7.1	11.3	14.1	12.7	14.1
72.5°	65.0	55.1	32.5	12.7	4.2	0.0	4.2	9.9	14.1	12.7	14.1
75°	50.9	41.0	24.0	7.1	0.0	0.0	1.4	8.5	14.1	12.7	14.1
77.5°	36.7	29.7	14.1	1.4	0.0	0.0	1.4	8.5	14.1	12.7	14.1
80°	24.0	21.2	5.7	0.0	0.0	0.0	1.4	8.5	14.1	14.1	15.5
82.5°	15.5	11.3	0.0	0.0	0.0	0.0	2.8	11.3	15.5	17.0	17.0
85°	7.1	0.0	0.0	0.0	0.0	0.0	5.7	14.1	18.4	18.4	18.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	9.9	17.0	21.2	21.2	21.2
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°	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3
2.5°	5052.5	5141.5	5267.3	5460.8	5617.7	5864.9	6054.3	6312.8	6574.2	6653.3	6776.2
5°	3718.7	3833.2	4118.6	4378.6	4542.5	5065.2	5395.8	5917.2	6384.9	6609.5	6854.0
7.5°	2582.8	2718.4	2936.0	3299.1	3643.9	4069.1	4603.2	5199.5	5884.7	6205.4	6550.2
10°	1812.7	1982.3	2288.9	2587.0	3020.8	3424.9	3951.9	4610.3	5366.2	5744.8	6177.2
12.5°	1144.4	1295.6	1701.1	2036.0	2577.1	3046.2	3532.2	4128.5	5004.5	5393.0	5846.6
15°	654.2	781.3	970.7	1400.2	2000.7	2620.9	3227.1	3919.4	4819.4	5298.4	5788.6
17.5°	487.4	521.4	606.1	849.2	1395.9	2120.8	2945.9	3855.8	4945.1	5507.5	6067.0
20°	409.7	432.3	471.9	568.0	890.1	1633.3	2671.8	3867.1	5352.0	6058.5	6589.7
22.5°	367.4	381.5	414.0	476.1	607.5	1189.7	2351.1	3933.5	5845.1	6735.3	7348.5
25°	322.1	340.5	368.8	422.5	505.8	825.1	2034.6	4081.9	6536.1	7594.3	8170.8
27.5°	286.8	303.8	332.0	381.5	443.6	630.2	1665.8	4209.0	7265.1	8459.0	8930.9
30°	251.5	268.5	296.7	336.3	392.8	510.1	1268.8	4283.9	7973.0	9107.5	9470.6
32.5°	221.8	236.0	262.8	298.1	344.7	432.3	1000.3	4206.2	8514.1	9696.7	9939.7
35°	192.2	209.1	231.7	264.2	305.2	368.8	832.2	3937.7	8979.0	10302.8	10390.4
37.5°	161.1	180.9	204.9	234.5	267.0	339.1	668.3	3641.0	9476.3	11058.7	10914.6
40°	135.6	154.0	176.6	209.1	238.8	310.8	514.3	3324.5	10013.2	11768.0	11486.8
42.5°	110.2	130.0	156.8	186.5	236.0	271.3	398.4	2996.8	10495.0	12385.4	12004.0
45°	87.6	104.6	132.8	171.0	234.5	233.1	308.0	2673.2	10858.1	12826.3	12389.7
47.5°	69.2	83.4	111.6	166.7	216.2	197.8	247.3	2472.6	11239.6	13223.3	12685.0
50°	55.1	69.2	96.1	173.8	189.3	169.5	207.7	2505.1	11608.3	13425.3	12806.5
52.5°	46.6	60.8	83.4	137.1	145.5	148.4	182.3	2654.8	12084.5	13641.5	13048.1
55°	41.0	53.7	70.6	96.1	113.0	132.8	166.7	2763.6	12721.7	14104.9	13580.8
57.5°	32.5	46.6	63.6	81.9	93.3	115.9	154.0	2772.1	13298.2	14699.8	14288.6
59°	29.7	42.4	59.3	77.7	83.4	104.6	145.5	2700.0	13319.4	14788.8	14613.6
60°	26.8	41.0	56.5	72.1	79.1	98.9	138.5	2616.7	13127.2	14647.5	14747.8
62.5°	22.6	35.3	49.5	57.9	67.8	81.9	120.1	2314.3	12196.1	14007.4	14499.1
65°	19.8	31.1	42.4	48.0	56.5	70.6	106.0	1852.3	11167.5	13139.9	13787.0
67.5°	18.4	28.3	36.7	41.0	49.5	65.0	94.7	1308.3	9835.2	12039.3	12717.5
70°	17.0	26.8	32.5	38.1	43.8	55.1	80.5	763.0	7575.9	10109.3	10825.6
72.5°	17.0	25.4	28.3	32.5	38.1	49.5	74.9	412.6	5179.7	7711.6	8637.0
75°	17.0	24.0	25.4	28.3	33.9	45.2	66.4	216.2	3348.6	5357.7	6612.4
77.5°	17.0	22.6	25.4	26.8	32.5	39.6	57.9	135.6	2231.0	3752.7	4469.0
80°	18.4	22.6	24.0	26.8	31.1	36.7	48.0	90.4	1311.2	2257.8	2719.8
82.5°	19.8	22.6	25.4	28.3	32.5	35.3	42.4	56.5	604.7	1493.4	1689.8
85°	21.2	24.0	26.8	29.7	33.9	35.3	39.6	41.0	98.9	674.0	911.3
87.5°	22.6	25.4	28.3	31.1	36.7	36.7	36.7	36.7	33.9	72.1	183.7
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: P454525

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3
2.5°	6931.7	7091.3	7202.9	7231.2	7150.7	7113.9	7012.2	6854.0	6757.9	6753.6
5°	7304.7	7679.1	7939.1	7982.9	7827.4	7564.6	7252.4	6849.7	6613.8	6543.1
7.5°	7241.1	7896.7	8314.9	8375.6	8114.3	7612.7	7008.0	6359.4	6102.3	5993.5
10°	6979.7	7779.4	8377.1	8473.1	8124.1	7417.7	6649.1	5925.7	5606.4	5523.0
12.5°	6756.5	7564.6	8095.9	8228.7	7964.5	7259.5	6434.3	5647.3	5305.4	5227.7
15°	6659.0	7310.3	7635.3	7703.1	7659.3	7160.6	6411.7	5605.0	5213.6	5128.8
17.5°	6756.5	7094.1	7135.1	7204.4	7301.8	7150.7	6629.3	5835.3	5412.8	5308.2
20°	7012.2	6906.2	6736.7	6766.4	6989.6	7191.6	7016.4	6345.3	5831.0	5719.4
22.5°	7447.4	6859.6	6475.3	6449.9	6732.4	7328.7	7584.4	7036.2	6440.0	6329.8
25°	7981.4	6976.9	6379.2	6324.1	6632.1	7529.3	8201.9	7882.5	7231.2	7063.1
27.5°	8563.6	7219.9	6379.2	6325.5	6623.7	7707.3	8730.3	8631.4	8050.7	7867.0
30°	8882.9	7420.5	6471.1	6410.3	6728.2	7810.5	9012.9	9296.9	8666.7	8439.2
32.5°	9168.3	7698.9	6650.5	6536.1	6947.2	7963.1	9265.8	9862.0	9157.0	9004.4
35°	9431.1	7997.0	6897.8	6764.9	7235.4	8172.2	9545.5	10455.4	9839.4	9609.1
37.5°	9720.7	8343.1	7283.5	7170.4	7717.2	8579.1	9877.6	11235.3	10510.5	10220.9
40°	10035.8	8744.4	7917.9	7869.8	8483.0	9039.7	10297.2	12067.5	11276.3	10947.1
42.5°	10356.5	9206.4	8695.0	8774.1	9350.5	9685.4	10728.1	12707.6	11903.6	11540.5
45°	10647.6	9797.0	9705.2	10096.6	10362.2	10315.5	11047.4	13158.3	12450.4	12102.9
47.5°	11014.9	10657.5	10927.3	11530.6	11537.7	11000.8	11289.0	13527.1	12920.9	12573.4
50°	11426.1	11673.3	12505.5	13120.1	12954.8	11674.8	11571.6	13963.6	13407.0	13128.6
52.5°	11902.2	12810.7	13963.6	14646.1	14260.4	12409.5	12042.1	14435.6	14178.4	13911.4
55°	12456.1	13586.4	15417.5	15961.5	15572.9	13322.2	12757.0	15075.6	15050.2	14867.9
57.5°	13082.0	14405.9	16259.6	16995.7	16649.6	14393.2	13755.9	15678.9	15582.8	15481.1
59°	13576.5	14826.9	16631.2	17394.2	17185.0	15143.4	14427.1	16054.7	15705.7	15553.2
60°	13876.0	15112.3	16768.2	17447.8	17399.8	15589.9	14852.4	16238.4	15704.3	15492.4
62.5°	14764.8	15611.1	16716.0	17209.1	17397.0	16446.1	16099.9	16440.5	15413.3	15102.4
65°	15081.2	15445.8	15849.9	15789.1	15950.2	16402.3	16896.8	16218.6	14791.6	14349.4
67.5°	14465.2	13633.0	13775.7	13370.2	13291.1	14582.5	16573.3	15133.5	13575.1	13034.0
70°	12193.3	10444.1	10372.1	10558.6	10047.1	11806.2	14882.0	13043.9	11567.4	10954.2
72.5°	9597.8	7381.0	6773.4	7460.1	7444.5	9007.2	12362.8	9255.9	7814.7	7762.4
75°	7547.7	5138.7	4510.0	4621.6	4836.3	6520.5	9846.5	5877.6	4812.3	4385.6
77.5°	5066.6	3641.0	3396.6	3259.5	3491.3	4186.4	6229.5	3187.5	2698.6	2555.9
80°	2920.5	2644.9	3003.8	2726.9	2851.2	2637.9	3098.5	1462.3	1213.7	1314.0
82.5°	1900.3	1506.1	1605.0	1192.5	1630.5	1644.6	994.7	432.3	365.9	388.5
85°	1188.2	706.4	397.0	282.6	562.3	1034.2	310.8	26.8	31.1	26.8
87.5°	308.0	117.3	49.5	73.5	90.4	80.5	72.1	4.2	1.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)