

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: P652288

Luminaire Tested: **GALN-SA3B-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652288  
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-SA3B-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA 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: 7897.8 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

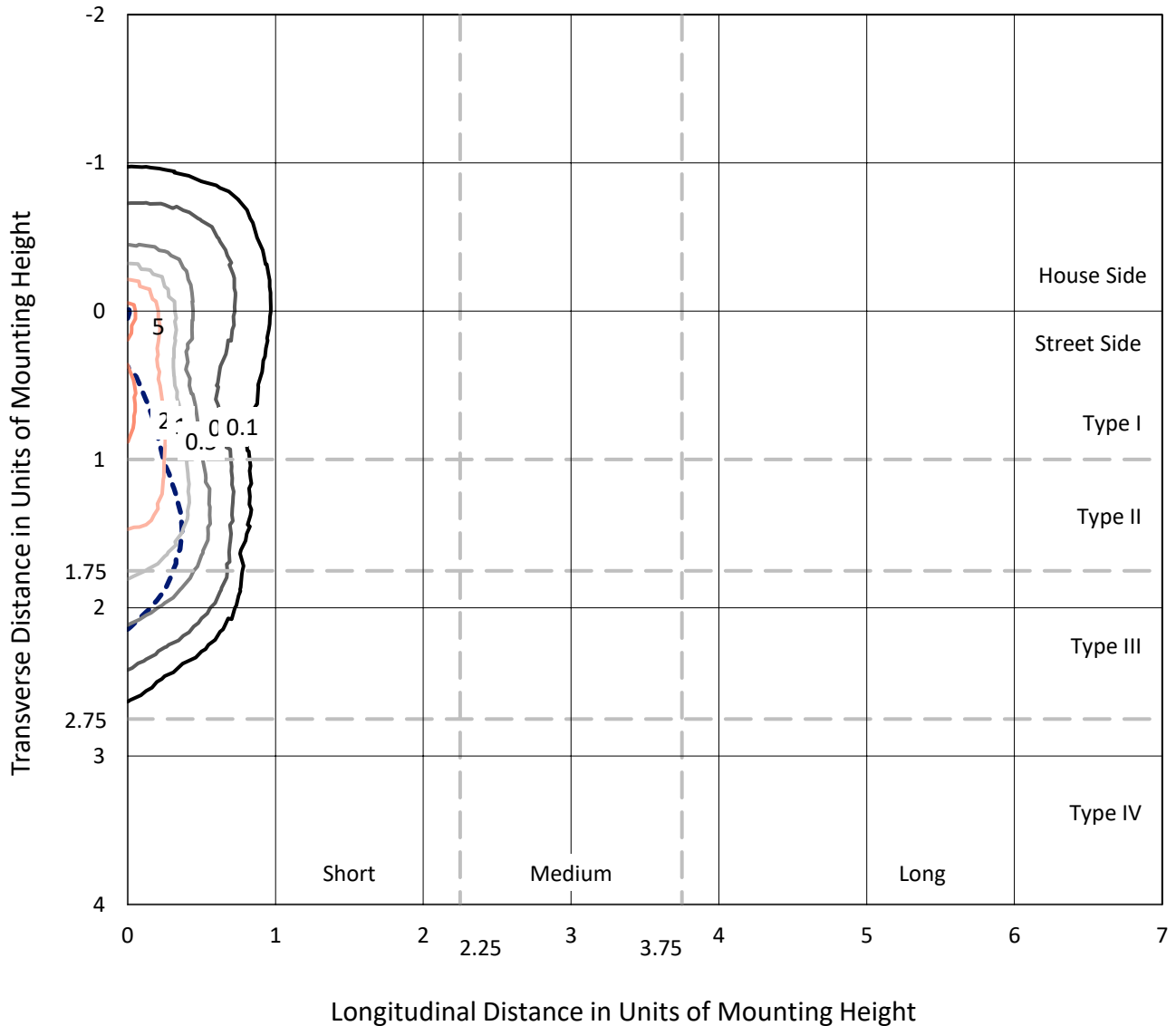
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

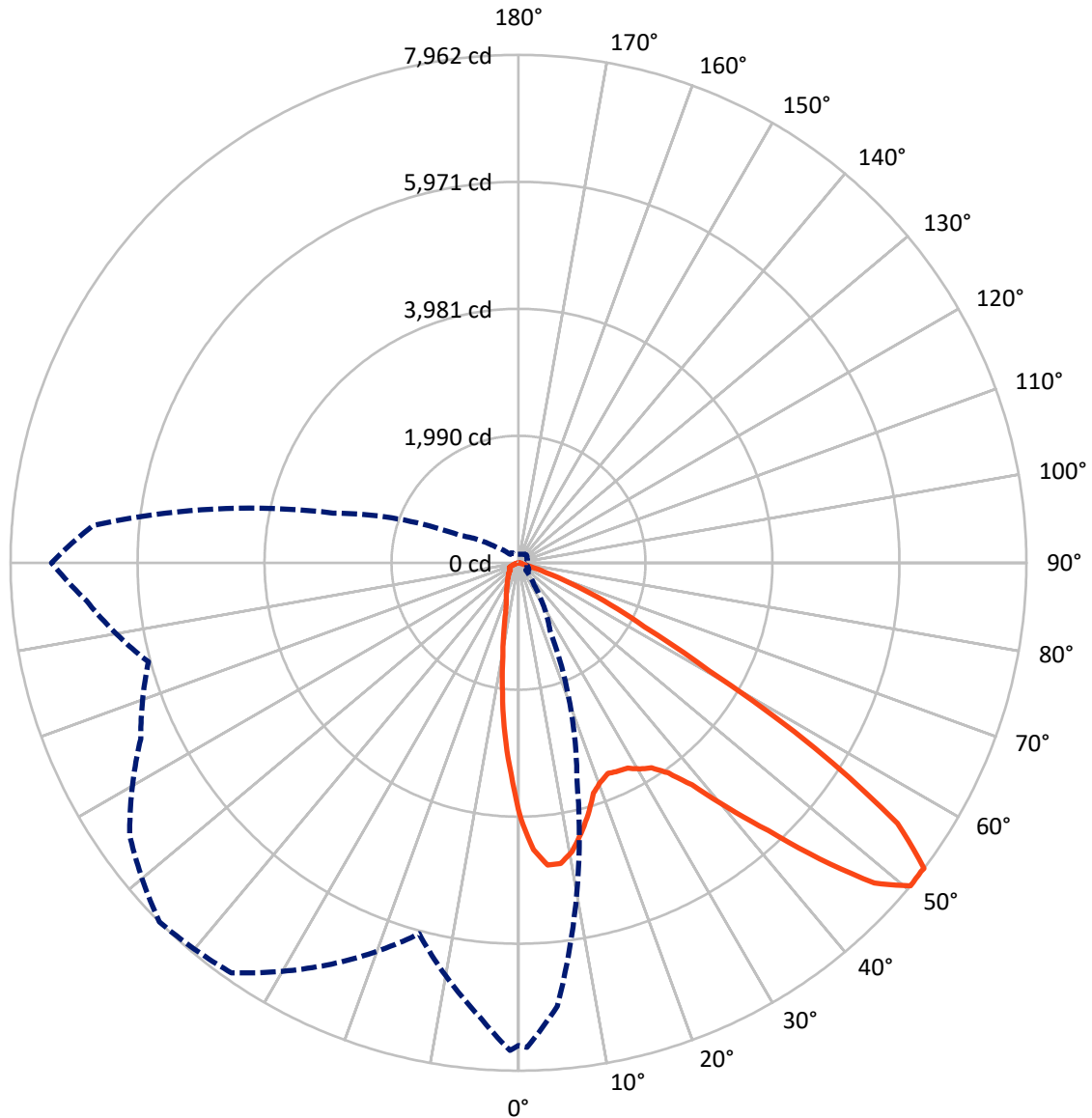
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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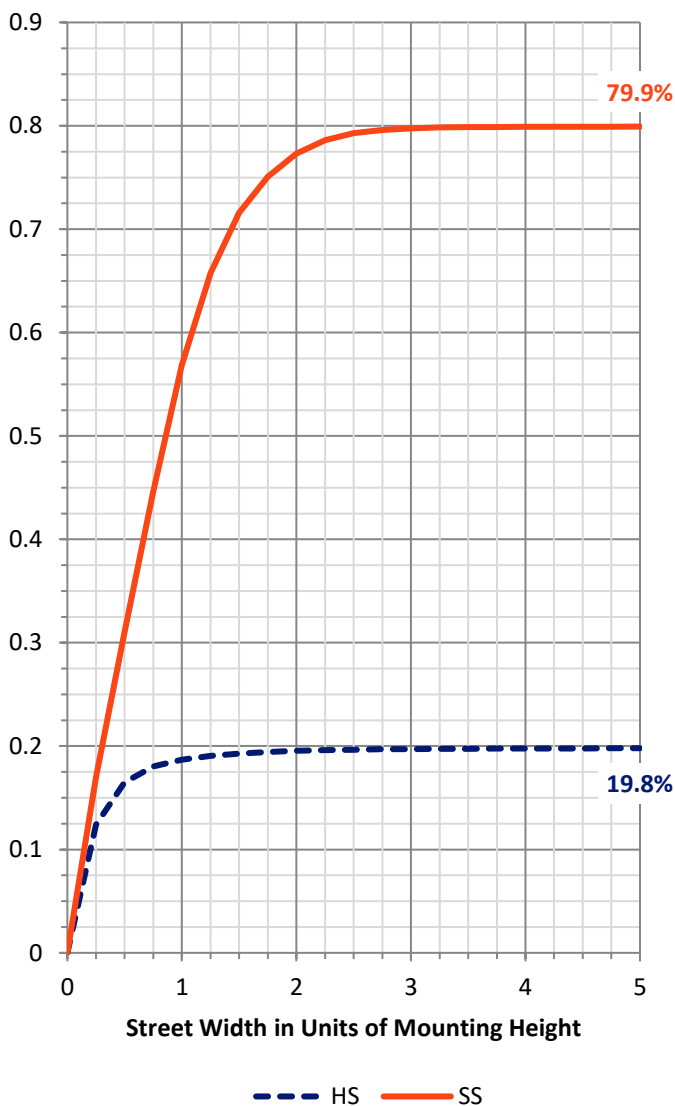
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1581.9	0.0	1581.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	6315.9	0.0	6315.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	7897.8	0.0	7897.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.9	3.7
10°-20°	580.2	7.3
20°-30°	871.7	11.0
30°-40°	1308.3	16.6
40°-50°	1838.8	23.3
50°-60°	1983.4	25.1
60°-70°	920.9	11.7
70°-80°	86.6	1.1
80°-90°	16.0	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°	7897.8	100.0
0°-180°	7897.8	100.0

**Coefficient of Utilization**



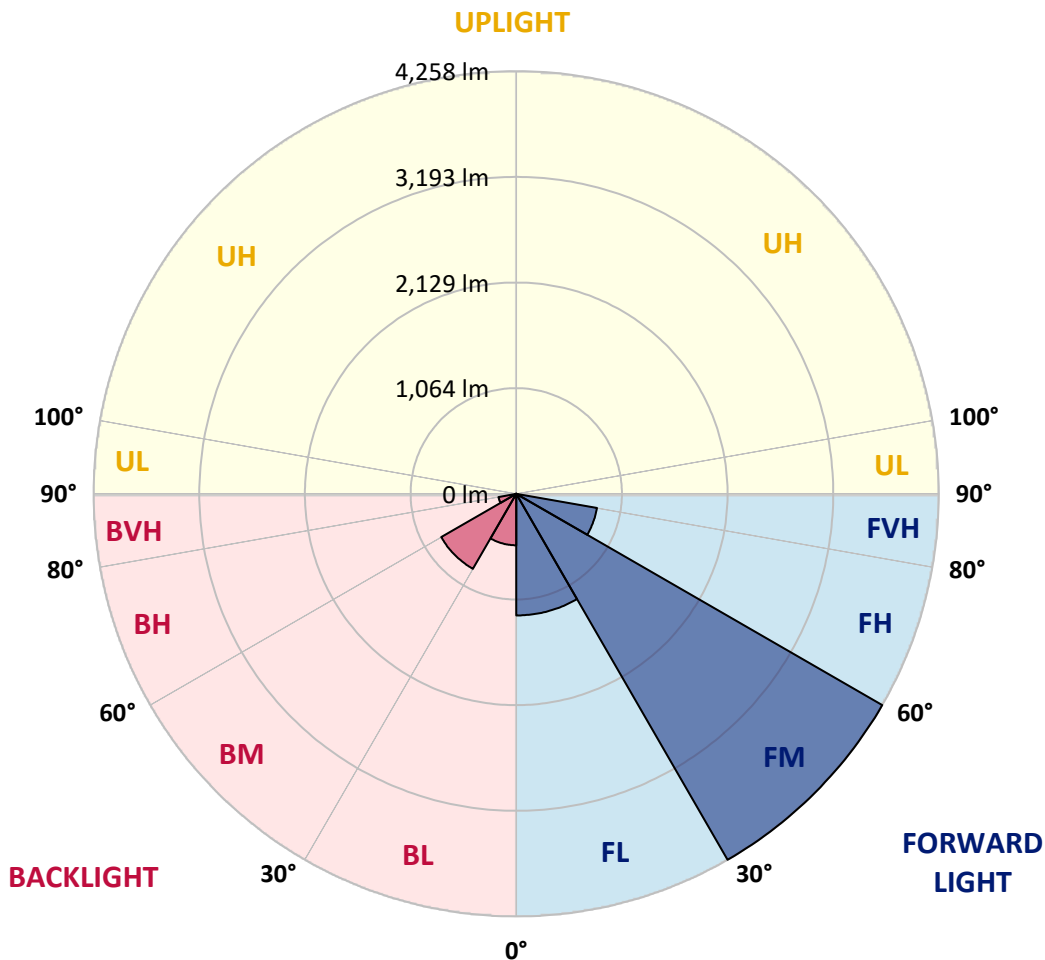
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.3	15.5			
FM (30°-60°)	4257.5	53.9			
FH (60°-80°)	825.9	10.5			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	518.5	6.6	B2/1000		
BM (30°-60°)	873.0	11.1	B1/1000		
BH (60°-80°)	181.6	2.3	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2
2.5°	4163.5	4099.2	4017.7	3950.3	3850.1	3647.9	3593.1	3527.2	3472.4	3398.8	3295.4
5°	3785.8	3765.4	3727.8	3474.0	3290.7	3046.2	2845.6	2761.0	2649.7	2558.9	2493.1
7.5°	3497.5	3416.0	3296.9	3041.5	2748.5	2486.8	2264.3	2134.2	1986.9	1936.8	1847.5
10°	3188.8	3207.6	3032.1	2673.3	2319.1	2107.5	1969.7	1844.3	1711.1	1623.4	1496.5
12.5°	3090.1	3028.9	2894.2	2450.8	2148.3	1950.9	1783.3	1628.1	1487.1	1346.0	1223.8
15°	3154.3	3060.3	2872.3	2403.7	2016.7	1770.7	1560.7	1350.7	1220.7	1040.5	913.6
17.5°	3384.7	3309.4	3057.2	2453.9	1949.4	1598.3	1286.5	1070.3	871.3	708.3	644.0
20°	3768.6	3662.1	3345.5	2518.1	1849.0	1389.9	1043.6	777.3	589.2	520.2	484.2
22.5°	4144.6	4086.7	3687.1	2641.9	1759.7	1205.0	783.5	523.4	440.3	427.8	404.3
25°	4860.7	4686.8	4208.9	2866.0	1690.7	1031.1	590.7	421.5	372.9	363.6	366.7
27.5°	5286.9	5141.3	4691.5	3014.9	1614.0	897.9	499.9	387.0	354.1	333.8	326.0
30°	5695.9	5526.7	4931.3	3102.6	1449.5	756.8	443.5	371.4	363.6	333.8	324.4
32.5°	6011.0	5844.9	5277.6	3234.2	1382.1	666.0	365.1	289.9	269.5	266.3	294.6
35°	6493.5	6316.5	5573.7	3306.3	1330.4	619.0	316.6	258.5	235.1	225.6	227.2
37.5°	6943.3	6822.6	5848.0	3334.6	1275.5	604.8	283.6	231.9	211.5	205.3	203.7
40°	7319.4	7049.9	6108.1	3364.3	1252.0	578.2	263.2	211.5	197.5	188.0	188.0
42.5°	7491.7	7217.5	6399.5	3347.1	1245.8	535.9	263.2	194.3	183.3	173.9	172.4
45°	7454.1	7342.9	6529.6	3339.2	1245.8	493.6	239.8	189.6	173.9	161.4	158.3
47.5°	7551.3	7405.5	6692.6	3372.2	1220.7	463.8	202.2	199.0	164.5	148.9	145.7
50°	7568.5	7596.7	6976.2	3543.0	1165.8	426.2	158.3	195.9	158.3	134.7	131.6
52°	7681.4	7505.8	7062.4	3633.8	1107.8	398.0	133.2	167.7	152.0	125.4	122.2
52.5°	7526.2	7640.6	7082.7	3666.8	1114.2	379.2	128.5	164.5	148.9	125.4	117.5
55°	7352.3	7461.9	6999.7	3737.2	1021.6	297.7	100.2	119.1	134.7	109.7	105.0
57.5°	6390.2	6501.4	6083.0	3422.3	832.1	210.0	83.1	89.3	119.1	101.8	97.1
60°	5680.3	5600.4	5105.2	2855.0	590.7	117.5	65.9	69.0	130.0	94.0	92.4
62.5°	5191.4	5020.6	4266.9	2204.8	360.4	78.4	51.7	53.2	100.2	87.7	87.7
65°	3840.7	3649.5	2834.7	1333.5	177.0	54.8	39.2	42.3	62.7	75.2	75.2
67.5°	2192.2	2118.6	1369.6	601.7	73.7	34.5	29.8	32.9	48.6	61.1	57.9
70°	1007.6	904.2	526.5	126.9	34.5	23.5	23.5	26.7	39.2	45.4	42.3
72.5°	294.6	279.0	128.5	20.4	14.1	14.1	15.6	20.4	29.8	34.5	31.4
75°	22.0	14.1	9.4	6.3	6.3	9.4	12.5	20.4	29.8	32.9	26.7
77.5°	1.6	3.1	1.6	1.6	4.7	9.4	14.1	25.1	39.2	40.7	29.8
80°	1.6	1.6	0.0	1.6	4.7	9.4	15.6	28.2	43.9	47.0	25.1
82.5°	0.0	0.0	0.0	1.6	6.3	12.5	18.8	29.8	40.7	50.1	26.7
85°	0.0	0.0	0.0	1.6	9.4	17.2	22.0	7.8	4.7	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°	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2
2.5°	3369.0	3328.3	3312.6	3326.7	3322.0	3317.3	3403.4	3384.7	3381.6	3409.8	3403.4
5°	2529.1	2457.0	2654.4	2574.6	2657.6	2707.8	2717.1	2721.8	2779.8	2718.7	2798.6
7.5°	1802.0	1820.8	1819.3	1872.6	1968.1	2052.7	2102.9	2063.7	2060.5	2052.7	2018.2
10°	1440.0	1407.2	1400.9	1388.3	1418.1	1490.2	1551.3	1502.7	1468.2	1515.2	1501.2
12.5°	1176.8	1131.4	1106.3	1056.1	1057.7	1106.3	1106.3	1106.3	1140.7	1167.4	1187.7
15°	902.6	865.0	865.0	814.8	803.8	805.4	830.5	833.6	888.5	904.2	912.0
17.5°	631.5	611.2	634.6	655.0	642.4	645.6	655.0	658.2	666.0	659.7	675.4
20°	485.8	482.6	488.9	525.0	551.6	567.3	556.2	540.6	531.2	509.3	509.3
22.5°	412.1	418.4	429.3	459.1	493.6	503.0	490.5	454.4	426.2	423.1	424.6
25°	366.7	372.9	390.1	409.0	427.8	443.5	430.9	404.3	388.6	374.5	374.5
27.5°	338.5	341.6	351.0	365.1	380.8	393.3	388.6	374.5	357.3	351.0	336.9
30°	316.6	321.3	332.2	335.3	349.4	355.7	347.8	344.7	333.8	326.0	321.3
32.5°	305.5	304.0	311.8	315.0	316.6	321.3	311.8	316.6	315.0	302.4	297.7
35°	230.3	242.9	263.2	280.5	285.2	291.5	289.9	283.6	266.3	252.3	235.1
37.5°	206.8	214.7	225.6	239.8	258.5	266.3	263.2	247.6	227.2	217.8	214.7
40°	191.2	195.9	205.3	214.7	233.5	247.6	236.6	222.5	206.8	199.0	194.3
42.5°	177.0	178.6	183.3	192.8	206.8	228.8	210.0	191.2	184.9	180.2	177.0
45°	161.4	161.4	167.7	172.4	188.0	208.4	189.6	172.4	169.2	166.1	164.5
47.5°	148.9	150.5	153.6	159.8	172.4	186.4	173.9	159.8	152.0	150.5	147.3
50°	133.2	134.7	141.0	147.3	163.0	170.8	163.0	147.3	139.4	134.7	134.7
52°	120.7	125.4	131.6	144.1	155.2	167.7	158.3	141.0	131.6	126.9	123.8
52.5°	119.1	122.2	128.5	142.6	155.2	166.1	156.7	139.4	128.5	125.4	122.2
55°	106.6	111.3	122.2	139.4	153.6	166.1	153.6	137.9	122.2	114.4	111.3
57.5°	101.8	105.0	119.1	141.0	152.0	166.1	153.6	137.9	122.2	108.2	105.0
60°	97.1	103.4	119.1	136.3	150.5	167.7	155.2	136.3	119.1	101.8	101.8
62.5°	92.4	97.1	117.5	133.2	144.1	161.4	148.9	133.2	114.4	97.1	95.6
65°	79.9	87.7	103.4	111.3	123.8	139.4	126.9	116.0	100.2	86.2	84.6
67.5°	61.1	64.3	76.8	86.2	94.0	108.2	101.8	87.7	76.8	65.9	65.9
70°	42.3	45.4	54.8	59.5	67.4	75.2	70.5	59.5	51.7	45.4	43.9
72.5°	29.8	31.4	34.5	37.6	40.7	43.9	42.3	34.5	29.8	28.2	26.7
75°	23.5	26.7	28.2	26.7	25.1	23.5	23.5	20.4	17.2	15.6	15.6
77.5°	23.5	25.1	23.5	20.4	17.2	15.6	14.1	12.5	9.4	7.8	9.4
80°	20.4	20.4	20.4	17.2	15.6	14.1	12.5	10.9	9.4	7.8	7.8
82.5°	22.0	22.0	20.4	17.2	17.2	14.1	14.1	12.5	10.9	7.8	7.8
85°	0.0	0.0	0.0	3.1	7.8	14.1	14.1	12.5	10.9	9.4	9.4
87.5°	0.0	0.0	0.0	0.0	1.6	3.1	6.3	7.8	9.4	9.4	9.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2
2.5°	3459.9	3519.4	3632.3	3745.1	3814.0	3895.5	4042.8	4121.2	4223.0	4273.1	4371.9
5°	2787.7	2928.7	2978.8	3107.3	3245.3	3383.1	3602.5	3843.8	4044.4	4182.3	4360.9
7.5°	2034.0	2066.8	2261.1	2347.3	2573.0	2823.7	3123.0	3427.0	3680.8	3906.4	4042.8
10°	1524.6	1645.3	1767.5	1932.1	2113.9	2372.4	2659.2	2994.5	3323.5	3549.2	3721.6
12.5°	1225.3	1321.0	1483.9	1661.0	1885.1	2055.9	2344.2	2676.4	3102.6	3323.5	3550.8
15°	927.6	1049.9	1234.8	1418.1	1654.8	1834.9	2126.4	2544.8	3093.2	3397.2	3593.1
17.5°	687.9	770.9	937.0	1142.3	1383.6	1637.5	2030.8	2530.7	3198.2	3560.2	3762.3
20°	526.5	554.7	659.7	843.0	1104.7	1436.9	1875.7	2591.8	3508.5	3956.7	4161.9
22.5°	426.2	438.7	479.5	606.4	860.3	1261.4	1802.0	2634.1	3857.9	4431.4	4705.6
25°	371.4	368.3	394.8	449.7	672.2	1096.9	1708.0	2793.9	4285.7	4989.2	5235.3
27.5°	338.5	338.5	351.0	390.1	557.8	990.4	1648.4	2908.3	4716.6	5479.7	5612.9
30°	321.3	324.4	360.4	372.9	463.8	863.4	1549.7	3024.2	5128.8	5793.1	5976.5
32.5°	297.7	285.2	277.4	308.7	390.1	749.0	1451.1	3072.8	5462.5	6177.1	6333.7
35°	228.8	222.5	231.9	255.4	335.3	651.9	1341.3	3127.7	5846.4	6622.0	6653.4
37.5°	206.8	205.3	211.5	231.9	282.1	567.3	1263.0	3113.6	6139.4	6990.3	6905.7
40°	191.2	191.2	195.9	213.1	252.3	507.7	1181.5	3101.0	6423.1	7404.0	7156.4
42.5°	178.6	178.6	186.4	197.5	239.8	468.5	1120.4	3083.8	6661.2	7657.8	7303.7
45°	161.4	166.1	178.6	189.6	242.9	441.9	1075.0	3018.0	6742.7	7654.7	7233.2
47.5°	148.9	155.2	167.7	183.3	219.4	434.0	1043.6	2960.0	6714.5	7466.7	7012.3
50°	134.7	142.6	159.8	186.4	186.4	418.4	1010.7	3011.7	6694.1	7320.9	6800.7
52°	125.4	131.6	153.6	181.7	163.0	385.5	990.4	3112.0	6777.2	7302.2	6706.6
52.5°	123.8	128.5	148.9	178.6	155.2	379.2	976.2	3135.5	6803.9	7255.1	6770.9
55°	109.7	116.0	136.3	139.4	126.9	311.8	930.8	3188.8	6672.2	7162.6	6709.8
57.5°	103.4	106.6	120.7	114.4	109.7	235.1	800.7	3105.7	5926.3	6361.9	6242.8
60°	95.6	98.7	112.9	89.3	92.4	164.5	601.7	2696.8	4758.9	5301.1	5515.8
62.5°	92.4	90.9	106.6	72.1	78.4	119.1	424.6	2192.2	3666.8	4364.0	4735.4
65°	81.5	79.9	76.8	61.1	67.4	92.4	253.8	1430.6	2584.0	3301.6	3505.3
67.5°	62.7	65.9	56.4	48.6	56.4	72.1	141.0	640.9	1355.4	1980.6	2145.2
70°	43.9	47.0	45.4	42.3	50.1	59.5	81.5	219.4	560.9	1040.5	1147.0
72.5°	26.7	32.9	34.5	36.1	43.9	51.7	57.9	70.5	148.9	368.3	457.6
75°	15.6	22.0	26.7	31.4	36.1	43.9	48.6	50.1	51.7	69.0	111.3
77.5°	10.9	15.6	23.5	29.8	36.1	43.9	51.7	54.8	51.7	48.6	51.7
80°	9.4	15.6	22.0	28.2	37.6	45.4	51.7	51.7	50.1	43.9	47.0
82.5°	9.4	15.6	23.5	29.8	36.1	43.9	50.1	51.7	47.0	43.9	45.4
85°	10.9	17.2	25.1	31.4	39.2	36.1	32.9	26.7	25.1	20.4	22.0
87.5°	10.9	15.6	15.6	17.2	18.8	18.8	18.8	17.2	14.1	12.5	12.5
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: P652288

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2
2.5°	4376.6	4502.0	4497.2	4500.4	4481.5	4354.6	4293.6	4138.4	4182.3	4163.5
5°	4544.3	4668.1	4774.6	4762.1	4617.8	4445.5	4190.1	3948.7	3883.0	3785.8
7.5°	4376.6	4674.3	4773.0	4758.9	4545.8	4324.8	3917.5	3676.1	3561.7	3497.5
10°	4110.2	4454.9	4577.1	4602.2	4458.1	4122.8	3748.3	3361.1	3300.1	3188.8
12.5°	3958.2	4208.9	4284.1	4351.5	4301.4	4050.7	3619.7	3248.4	3163.8	3090.1
15°	3834.4	3983.2	4014.6	4091.4	4121.2	3986.4	3687.1	3370.6	3162.2	3154.3
17.5°	3948.7	3887.7	3773.3	3796.8	3890.8	3987.9	3861.0	3611.8	3409.8	3384.7
20°	4138.4	3868.9	3610.3	3668.3	3746.7	4044.4	4124.3	3948.7	3832.9	3768.6
22.5°	4356.2	3901.7	3558.6	3586.8	3735.6	4171.3	4550.5	4453.3	4237.1	4144.6
25°	4758.9	3992.6	3599.3	3618.2	3821.8	4348.4	4936.0	5008.1	4879.6	4860.7
27.5°	5152.2	4227.7	3688.6	3646.3	3865.7	4520.7	5169.5	5556.5	5330.8	5286.9
30°	5352.8	4418.9	3821.8	3749.8	4047.5	4625.8	5310.5	5913.7	5716.4	5695.9
32.5°	5659.9	4592.8	3925.3	3832.9	4149.3	4755.8	5573.7	6304.0	6112.8	6011.0
35°	5788.4	4782.4	4152.5	4044.4	4440.8	4937.5	5708.5	6651.8	6592.3	6493.5
37.5°	6036.0	4986.1	4420.5	4414.2	4793.4	5174.2	5951.4	7125.0	7114.1	6943.3
40°	6056.4	5208.6	4843.5	5041.0	5338.7	5586.3	6164.5	7256.7	7435.3	7319.4
42.5°	6087.7	5598.8	5575.3	5738.3	5993.7	5940.4	6172.4	7288.0	7560.7	7491.7
45°	6101.8	5989.0	6319.6	6620.5	6727.1	6404.2	6098.7	7228.5	7626.4	7454.1
47.5°	5989.0	6324.3	6921.3	7502.7	7534.0	6689.4	6067.3	7167.3	7665.6	7551.3
50°	6004.7	6534.3	7441.6	7961.8	7847.5	6941.7	6018.8	7129.7	7645.3	7568.5
52°	5967.1	6539.0	7515.3	7952.4	7872.5	6802.3	5935.7	6985.6	7626.4	7681.4
52.5°	6009.4	6510.8	7438.5	7958.7	7855.3	6871.2	5924.8	7065.5	7637.5	7526.2
55°	5863.6	6175.5	6988.7	7209.6	7194.0	6236.6	5587.9	6800.7	7350.7	7352.3
57.5°	5299.6	5352.8	5481.3	5476.6	5404.5	4903.1	4779.3	6253.8	6553.1	6390.2
60°	4669.6	3919.0	3572.7	3431.7	3351.8	3270.3	4227.7	5721.1	5749.2	5680.3
62.5°	4034.9	2717.1	2256.5	2217.3	2236.1	2533.8	4086.7	5509.5	5340.3	5191.4
65°	3256.2	1980.6	1639.0	1587.4	1770.7	2091.9	3307.9	4224.6	3964.5	3840.7
67.5°	2044.9	1444.8	1107.8	1010.7	1231.6	1440.0	2173.4	2654.4	2363.0	2192.2
70°	1212.8	807.0	501.4	449.7	506.1	767.8	1217.5	1324.1	1095.3	1007.6
72.5°	477.9	296.2	139.4	119.1	123.8	269.5	448.2	437.2	330.6	294.6
75°	128.5	89.3	48.6	39.2	32.9	50.1	72.1	47.0	17.2	22.0
77.5°	59.5	53.2	42.3	32.9	25.1	18.8	9.4	3.1	3.1	1.6
80°	51.7	45.4	39.2	32.9	25.1	15.6	7.8	1.6	1.6	1.6
82.5°	48.6	42.3	36.1	29.8	23.5	15.6	7.8	1.6	0.0	0.0
85°	20.4	26.7	29.8	28.2	25.1	15.6	7.8	1.6	0.0	0.0
87.5°	10.9	9.4	7.8	6.3	4.7	3.1	3.1	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)