

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: P647175

Luminaire Tested: **GALN-SA9C-835-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647175  
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-SA9C-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 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: 35838.7 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

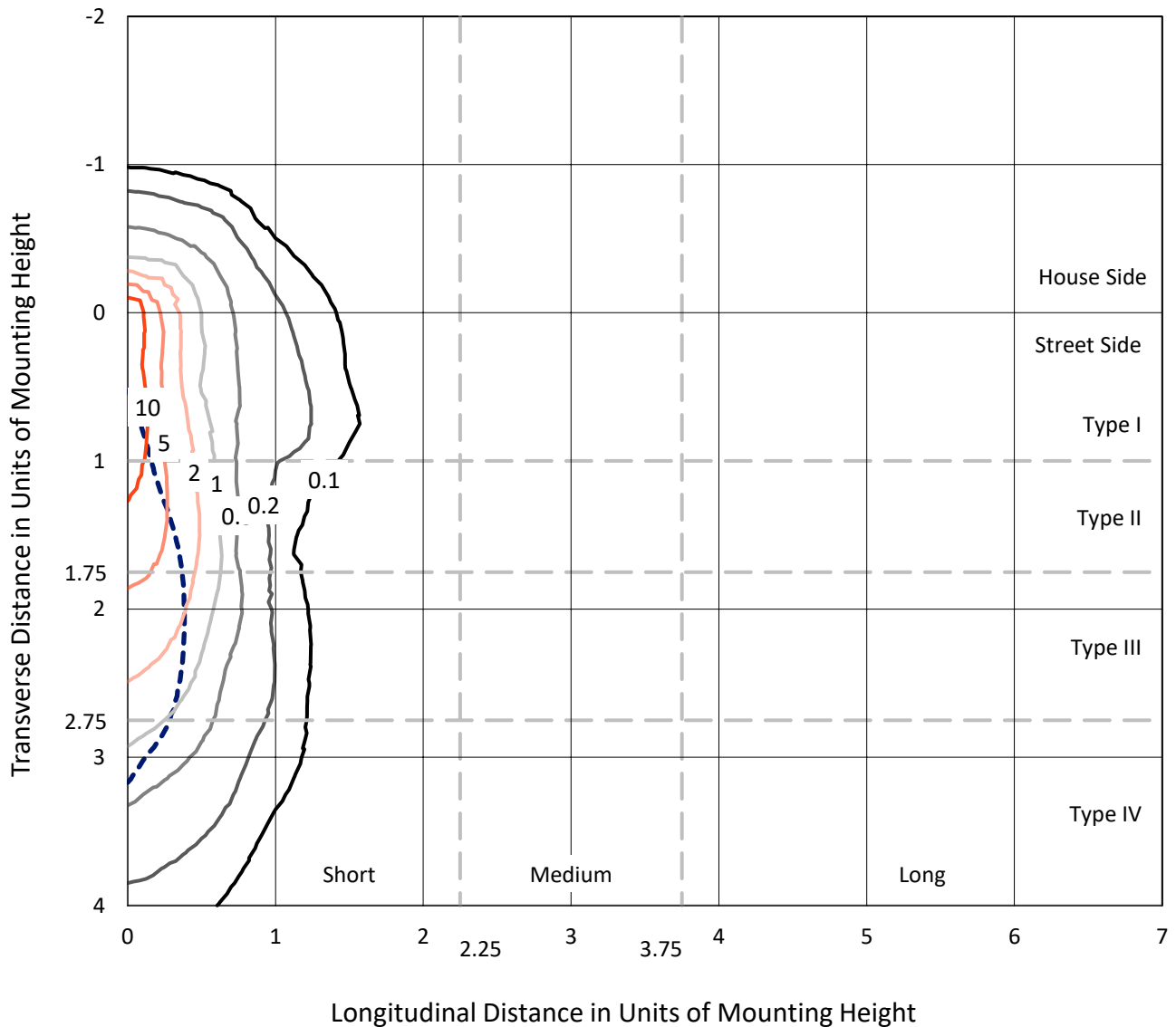
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

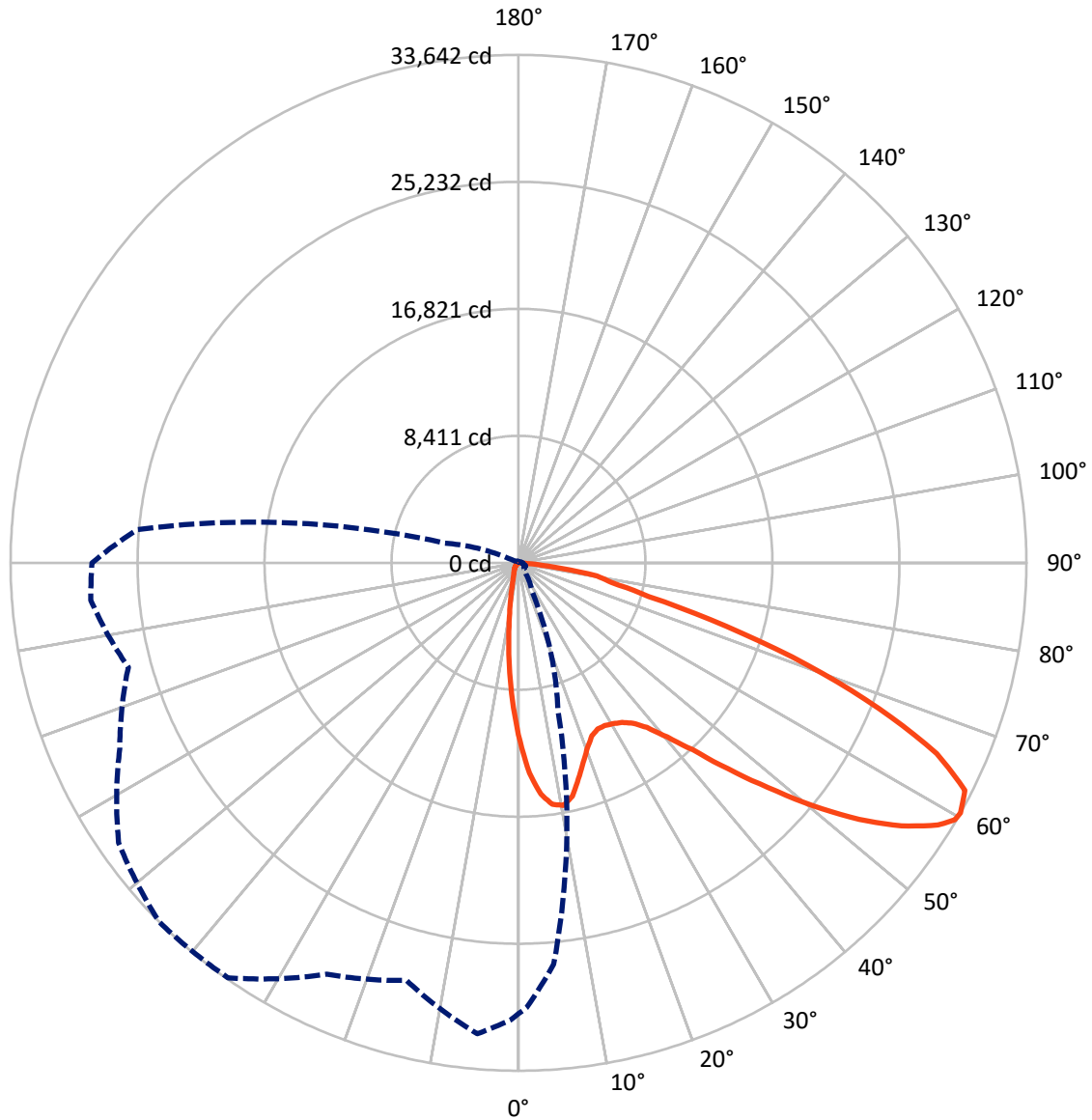
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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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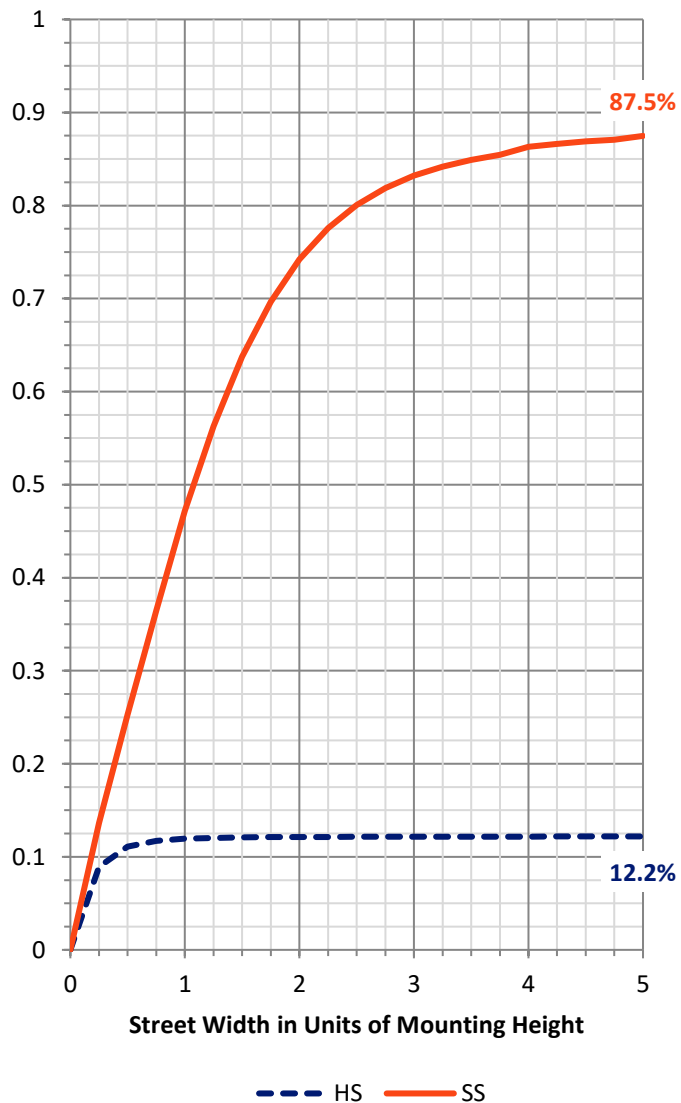
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4420.3	0.0	4420.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	31418.3	0.0	31418.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	35838.7	0.0	35838.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	881.0	2.5
10°-20°	1749.7	4.9
20°-30°	2565.5	7.2
30°-40°	3815.4	10.6
40°-50°	5552.5	15.5
50°-60°	8007.2	22.3
60°-70°	8807.1	24.6
70°-80°	3944.8	11.0
80°-90°	515.5	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°	35838.7	100.0
0°-180°	35838.7	100.0

**Coefficient of Utilization**



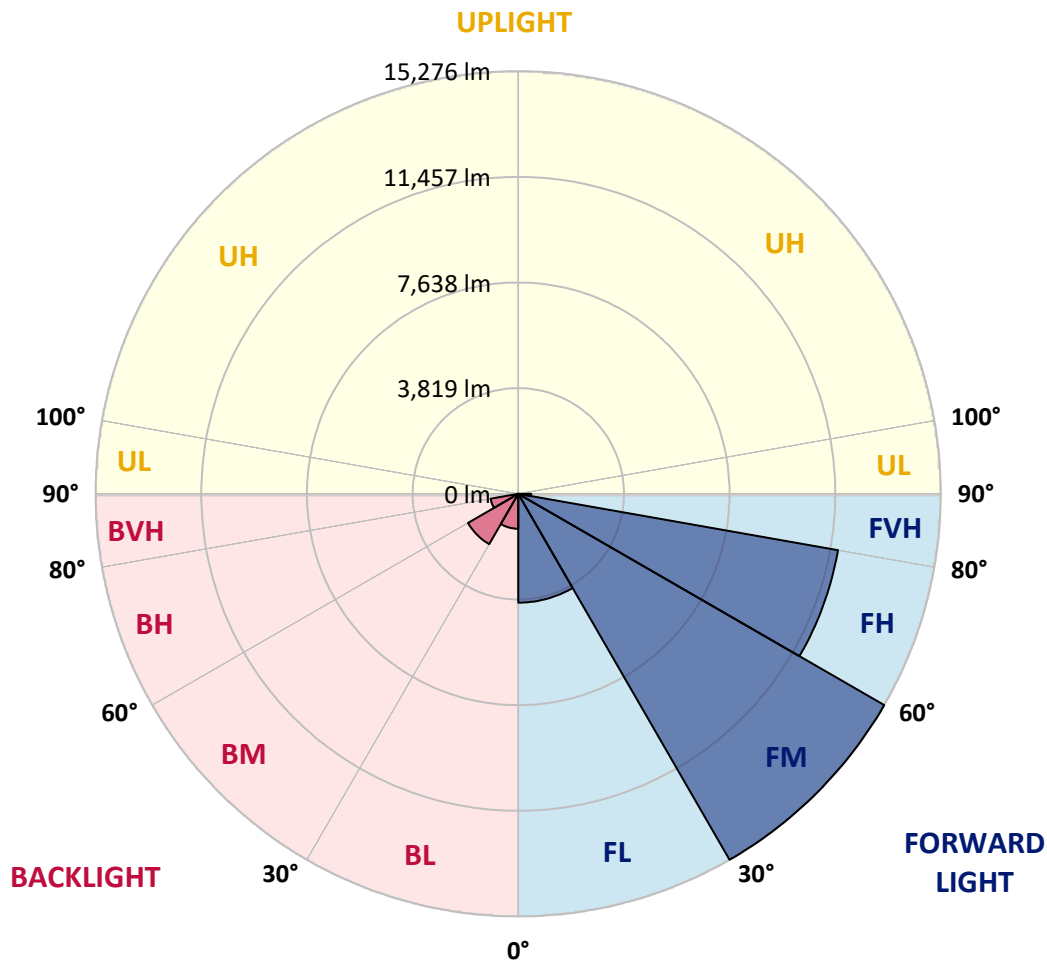
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3933.2	11.0			
FM (30°-60°)	15275.6	42.6			
FH (60°-80°)	11738.2	32.8			G4/12000
FVH (80°-90°)	471.4	1.3			G3/500
BL (0°-30°)	1263.0	3.5	B3/2500		
BM (30°-60°)	2099.6	5.9	B2/2500		
BH (60°-80°)	1013.7	2.8	B3/2500		G3/2500
BVH (80°-90°)	44.1	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2
2.5°	13022.1	12964.9	12834.2	12436.4	12090.4	11638.1	11180.5	10820.9	10600.2	10194.3	10009.0
5°	12616.2	12643.4	12264.8	11447.5	10537.5	9916.4	9238.1	8698.7	8104.8	7728.8	7333.8
7.5°	11556.5	11502.0	11090.6	9951.9	8845.8	7946.7	7088.6	6391.2	5952.6	5601.1	5306.9
10°	10649.3	10608.4	10082.6	8616.9	7429.1	6756.2	6176.0	5565.7	5094.4	4579.5	4168.1
12.5°	10079.9	9987.2	9382.5	7851.4	6884.3	6257.7	5625.6	4990.9	4339.8	3819.5	3320.9
15°	9889.1	9755.7	9082.8	7587.1	6535.5	5740.1	4947.3	4217.2	3468.0	2893.2	2517.3
17.5°	10235.1	10014.5	9298.0	7540.8	6118.8	5064.4	4089.1	3138.3	2359.3	1920.6	1689.1
20°	11027.9	10774.5	9842.9	7494.5	5655.6	4307.1	3108.4	2217.5	1631.9	1392.1	1264.1
22.5°	12204.8	11856.1	10649.3	7568.1	5227.9	3568.8	2244.8	1566.5	1296.7	1146.9	1057.0
25°	13618.7	13327.2	11670.8	7829.6	4890.1	2988.6	1735.4	1280.4	1092.4	999.8	931.7
27.5°	15168.8	14702.9	12992.2	8142.9	4582.3	2539.0	1522.9	1144.2	972.6	888.1	852.7
30°	16272.1	15909.9	14098.1	8360.9	4198.1	2201.2	1392.1	1127.8	975.3	874.5	809.2
32.5°	17361.9	16898.8	15024.4	8461.6	3917.5	1967.0	1204.1	983.4	855.4	803.7	738.3
35°	18527.9	18043.0	15948.0	8407.1	3707.7	1811.6	1092.4	877.2	732.8	645.7	580.3
37.5°	19707.5	19195.3	16866.1	8211.0	3577.0	1749.0	1005.3	833.7	691.9	602.0	531.3
40°	21107.8	20424.0	17727.0	8050.3	3440.7	1716.3	948.1	806.4	662.0	566.7	495.8
42.5°	22252.0	21600.9	18541.5	7965.9	3348.2	1640.0	948.1	784.6	642.9	536.7	463.1
45°	23336.2	22660.6	19421.5	8033.9	3310.0	1544.7	958.9	781.9	629.3	514.9	441.3
47.5°	24243.4	23657.7	20325.9	8290.0	3261.0	1441.1	901.7	820.0	621.2	495.8	419.5
50°	25314.1	24747.4	21521.9	8807.7	3173.8	1337.6	830.9	882.7	618.4	479.5	400.5
52.5°	26823.3	26210.4	23172.8	9396.1	3034.8	1179.6	765.5	874.5	607.5	452.3	381.4
55°	28667.7	28171.9	25085.2	10101.6	2844.2	1002.6	662.0	776.4	574.8	405.9	348.7
57.5°	29850.0	29427.7	26518.2	10406.8	2552.7	820.0	583.0	651.1	525.8	362.3	310.5
59°	29989.0	29607.6	26817.9	10306.0	2361.9	749.2	544.9	558.5	512.2	337.8	288.8
60°	29871.8	29476.8	26698.0	10109.9	2184.9	700.2	512.2	495.8	514.9	324.2	272.4
62.5°	29119.9	28444.3	25534.7	9115.5	1909.7	642.9	454.9	405.9	454.9	291.5	242.5
65°	27667.9	26654.4	23232.7	7715.2	1800.7	610.3	386.9	340.5	346.0	256.1	209.8
67.5°	25131.6	23853.9	20167.9	6268.6	1754.5	612.9	326.9	305.1	267.0	217.9	185.3
70°	21121.4	19846.5	16182.3	5157.1	1732.6	612.9	277.9	261.5	223.4	182.5	160.7
72.5°	14967.2	13594.2	10916.2	4051.0	1561.0	610.3	237.0	237.0	182.5	152.5	130.8
75°	8456.2	8467.0	6862.4	2865.9	1296.7	504.0	190.7	188.0	133.5	117.1	98.1
77.5°	4928.2	4841.1	4625.8	1231.3	602.0	228.9	133.5	114.4	92.6	84.5	70.9
80°	2533.6	2084.1	2029.6	446.8	215.2	144.4	92.6	65.4	59.9	54.5	49.0
82.5°	749.2	751.9	670.2	179.8	119.9	95.4	46.3	35.4	32.7	30.0	30.0
85°	51.8	32.7	38.1	54.5	73.5	38.1	2.7	8.1	8.1	10.9	13.6
87.5°	5.5	2.7	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°	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2
2.5°	9804.7	9924.6	9701.2	9706.6	9521.4	9581.3	9363.3	9434.2	9306.2	9404.2	9693.0
5°	7377.3	7404.6	7224.8	7167.6	7194.8	7306.6	7350.1	7151.2	7235.7	7069.6	7058.7
7.5°	5197.9	5230.6	5127.1	5113.5	5309.6	5263.3	5347.8	5143.4	4950.0	5034.5	4879.2
10°	4037.4	3901.1	3688.7	3628.7	3590.6	3615.1	3615.1	3429.9	3402.6	3329.1	3440.7
12.5°	3187.4	3021.2	2819.7	2547.2	2479.1	2473.7	2372.9	2209.4	2157.6	2095.0	2187.6
15°	2315.6	2247.5	2078.6	1926.1	1770.8	1740.8	1577.4	1443.9	1266.8	1242.3	1234.1
17.5°	1629.1	1528.3	1525.6	1438.4	1348.6	1288.6	1136.1	983.4	915.3	907.2	907.2
20°	1220.5	1185.1	1127.8	1116.9	1089.7	1021.6	885.4	803.7	770.9	773.7	784.6
22.5°	1027.1	1002.6	950.8	926.3	915.3	855.4	754.7	700.2	683.8	683.8	686.5
25°	918.1	896.3	839.1	800.9	787.3	743.7	664.7	623.9	610.3	610.3	610.3
27.5°	836.3	809.2	749.2	716.5	691.9	642.9	593.9	553.0	539.4	539.4	542.1
30°	779.2	749.2	694.7	651.1	612.9	569.4	528.5	493.1	476.8	474.0	476.8
32.5°	702.9	675.7	621.2	593.9	550.3	498.5	465.9	433.2	416.8	419.5	416.8
35°	547.6	539.4	501.3	509.4	484.9	441.3	411.4	375.9	356.9	354.2	359.6
37.5°	498.5	465.9	422.3	425.0	416.8	400.5	351.4	313.3	299.7	299.7	302.4
40°	460.4	427.7	378.7	354.2	356.9	356.9	305.1	264.3	250.6	247.9	253.4
42.5°	427.7	395.0	340.5	299.7	288.8	302.4	258.8	217.9	204.3	198.9	204.3
45°	405.9	370.5	307.9	261.5	228.9	245.2	212.5	179.8	163.5	163.5	160.7
47.5°	384.1	351.4	283.3	226.1	190.7	182.5	174.4	144.4	128.0	125.3	128.0
50°	365.0	332.4	256.1	196.1	160.7	141.6	141.6	114.4	103.5	98.1	100.8
52.5°	346.0	310.5	231.5	174.4	138.9	114.4	100.8	92.6	84.5	81.7	84.5
55°	318.8	283.3	207.0	149.9	119.9	95.4	79.0	76.3	70.9	65.4	70.9
57.5°	286.0	253.4	182.5	128.0	95.4	73.5	65.4	62.6	57.2	54.5	54.5
59°	267.0	237.0	168.9	111.7	84.5	65.4	59.9	57.2	51.8	46.3	49.0
60°	256.1	231.5	160.7	103.5	76.3	59.9	54.5	51.8	46.3	43.6	46.3
62.5°	226.1	207.0	141.6	84.5	59.9	43.6	38.1	40.9	38.1	35.4	38.1
65°	198.9	182.5	119.9	65.4	46.3	30.0	27.2	35.4	32.7	30.0	32.7
67.5°	177.1	158.0	100.8	49.0	32.7	16.4	19.1	30.0	30.0	27.2	30.0
70°	152.5	136.2	81.7	35.4	16.4	8.1	13.6	21.8	27.2	24.5	27.2
72.5°	125.3	106.3	62.6	24.5	8.1	0.0	8.1	19.1	27.2	24.5	27.2
75°	98.1	79.0	46.3	13.6	0.0	0.0	2.7	16.4	27.2	24.5	27.2
77.5°	70.9	57.2	27.2	2.7	0.0	0.0	2.7	16.4	27.2	24.5	27.2
80°	46.3	40.9	10.9	0.0	0.0	0.0	2.7	16.4	27.2	27.2	30.0
82.5°	30.0	21.8	0.0	0.0	0.0	0.0	5.5	21.8	30.0	32.7	32.7
85°	13.6	0.0	0.0	0.0	0.0	0.0	10.9	27.2	35.4	35.4	35.4
87.5°	0.0	0.0	0.0	0.0	0.0	5.5	19.1	32.7	40.9	40.9	40.9
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°	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2
2.5°	9742.1	9913.7	10156.1	10529.4	10831.8	11308.5	11673.6	12172.1	12676.1	12828.7	13065.7
5°	7170.3	7391.0	7941.3	8442.5	8758.6	9766.6	10404.0	11409.3	12311.0	12744.2	13215.6
7.5°	4980.0	5241.6	5661.1	6361.2	7025.9	7846.0	8875.7	10025.4	11346.7	11965.1	12629.8
10°	3495.2	3822.1	4413.4	4988.2	5824.5	6603.7	7619.8	8889.3	10346.9	11076.9	11910.6
12.5°	2206.7	2498.2	3280.1	3925.7	4969.1	5873.6	6810.7	7960.4	9649.5	10398.6	11273.1
15°	1261.3	1506.5	1871.6	2699.8	3857.6	5053.6	6222.3	7557.2	9292.6	10216.1	11161.4
17.5°	939.9	1005.3	1168.7	1637.3	2691.6	4089.1	5680.1	7434.6	9535.0	10619.3	11698.1
20°	790.0	833.7	909.9	1095.2	1716.3	3149.3	5151.6	7456.4	10319.6	11681.7	12706.1
22.5°	708.3	735.6	798.2	918.1	1171.4	2293.9	4533.2	7584.5	11270.3	12986.7	14169.0
25°	621.2	656.5	711.0	814.6	975.3	1591.0	3923.0	7870.5	12602.5	14643.0	15754.6
27.5°	553.0	585.7	640.2	735.6	855.4	1215.1	3211.9	8115.6	14008.3	16310.3	17220.2
30°	484.9	517.6	572.1	648.4	757.3	983.4	2446.4	8260.0	15373.2	17560.7	18260.9
32.5°	427.7	454.9	506.7	574.8	664.7	833.7	1928.8	8110.2	16416.5	18696.8	19165.3
35°	370.5	403.2	446.8	509.4	588.4	711.0	1604.6	7592.6	17312.8	19865.5	20034.4
37.5°	310.5	348.7	395.0	452.3	514.9	653.8	1288.6	7020.5	18271.8	21323.0	21045.1
40°	261.5	296.9	340.5	403.2	460.4	599.3	991.7	6410.3	19307.1	22690.6	22148.5
42.5°	212.5	250.6	302.4	359.6	454.9	523.0	768.3	5778.2	20236.0	23881.1	23145.6
45°	168.9	201.6	256.1	329.6	452.3	449.5	593.9	5154.3	20936.2	24731.1	23889.3
47.5°	133.5	160.7	215.2	321.5	416.8	381.4	476.8	4767.5	21671.7	25496.6	24458.6
50°	106.3	133.5	185.3	335.1	365.0	326.9	400.5	4830.2	22382.8	25886.2	24692.9
52.5°	89.9	117.1	160.7	264.3	280.6	286.0	351.4	5118.9	23300.8	26303.0	25158.8
55°	79.0	103.5	136.2	185.3	217.9	256.1	321.5	5328.7	24529.5	27196.6	26185.9
57.5°	62.6	89.9	122.6	158.0	179.8	223.4	296.9	5345.1	25641.0	28343.5	27550.7
59°	57.2	81.7	114.4	149.9	160.7	201.6	280.6	5206.1	25681.9	28515.1	28177.3
60°	51.8	79.0	109.0	138.9	152.5	190.7	267.0	5045.4	25311.3	28242.7	28436.1
62.5°	43.6	68.1	95.4	111.7	130.8	158.0	231.5	4462.4	23516.1	27008.6	27956.6
65°	38.1	59.9	81.7	92.6	109.0	136.2	204.3	3571.6	21532.7	25335.8	26583.6
67.5°	35.4	54.5	70.9	79.0	95.4	125.3	182.5	2522.7	18963.8	23213.7	24521.3
70°	32.7	51.8	62.6	73.5	84.5	106.3	155.3	1471.1	14607.6	19492.2	20873.4
72.5°	32.7	49.0	54.5	62.6	73.5	95.4	144.4	795.5	9987.2	14869.2	16653.5
75°	32.7	46.3	49.0	54.5	65.4	87.1	128.0	416.8	6456.5	10330.5	12749.7
77.5°	32.7	43.6	49.0	51.8	62.6	76.3	111.7	261.5	4301.6	7235.7	8616.9
80°	35.4	43.6	46.3	51.8	59.9	70.9	92.6	174.4	2528.2	4353.4	5244.2
82.5°	38.1	43.6	49.0	54.5	62.6	68.1	81.7	109.0	1166.0	2879.6	3258.2
85°	40.9	46.3	51.8	57.2	65.4	68.1	76.3	79.0	190.7	1299.5	1757.1
87.5°	43.6	49.0	54.5	59.9	70.9	70.9	70.9	70.9	65.4	138.9	354.2
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: P647175  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2	11845.2
2.5°	13365.3	13673.2	13888.4	13942.9	13787.6	13716.8	13520.6	13215.6	13030.3	13022.1
5°	14084.5	14806.5	15307.8	15392.2	15092.6	14585.8	13983.8	13207.3	12752.4	12616.2
7.5°	13962.0	15226.1	16032.4	16149.6	15645.6	14678.4	13512.5	12262.0	11766.2	11556.5
10°	13458.0	14999.9	16152.3	16337.5	15664.6	14302.5	12820.5	11425.7	10809.9	10649.3
12.5°	13027.6	14585.8	15610.2	15866.2	15356.8	13997.4	12406.4	10888.9	10229.7	10079.9
15°	12839.6	14095.5	14722.0	14852.8	14768.4	13806.7	12362.8	10807.3	10052.6	9889.1
17.5°	13027.6	13678.6	13757.6	13891.1	14079.1	13787.6	12782.3	11251.3	10436.8	10235.1
20°	13520.6	13316.3	12989.4	13046.6	13477.1	13866.6	13528.8	12234.8	11243.1	11027.9
22.5°	14359.8	13226.4	12485.4	12436.4	12981.2	14130.9	14623.9	13567.0	12417.3	12204.8
25°	15389.5	13452.6	12300.1	12193.9	12787.8	14517.8	15814.5	15198.8	13942.9	13618.7
27.5°	16511.9	13921.1	12300.1	12196.6	12771.4	14860.9	16833.4	16642.7	15523.0	15168.8
30°	17127.6	14308.0	12477.3	12360.1	12973.1	15059.8	17378.2	17925.8	16710.8	16272.1
32.5°	17677.9	14844.7	12823.2	12602.5	13395.3	15354.1	17865.9	19015.5	17656.1	17361.9
35°	18184.6	15419.5	13300.0	13043.9	13951.1	15757.2	18405.3	20159.7	18971.9	18527.9
37.5°	18743.1	16086.9	14043.7	13825.7	14880.1	16541.9	19045.5	21663.5	20266.0	19707.5
40°	19350.6	16860.6	15266.9	15174.3	16356.6	17430.0	19854.6	23268.1	21742.5	21107.8
42.5°	19969.0	17751.5	16765.3	16917.8	18029.4	18675.0	20685.5	24502.3	22952.2	22252.0
45°	20530.3	18890.2	18713.2	19467.7	19979.9	19890.0	21301.2	25371.3	24006.4	23336.2
47.5°	21238.6	20549.3	21069.7	22232.9	22246.5	21211.3	21767.1	26082.4	24913.6	24243.4
50°	22031.3	22508.0	24112.6	25297.7	24979.0	22510.8	22311.9	26924.2	25850.7	25314.1
52.5°	22949.4	24701.1	26924.2	28240.0	27496.2	23927.4	23219.1	27834.0	27338.2	26823.3
55°	24017.4	26196.8	29727.5	30776.3	30027.1	25687.3	24597.6	29068.2	29019.1	28667.7
57.5°	25224.2	27776.8	31351.1	32770.4	32103.0	27752.3	26523.7	30231.4	30046.1	29850.0
59°	26177.6	28588.7	32067.6	33538.7	33135.5	29198.9	27817.7	30956.1	30283.2	29989.0
60°	26755.2	29139.0	32331.9	33642.2	33549.6	30059.8	28637.7	31310.2	30280.5	29871.8
62.5°	28468.8	30100.6	32231.0	33181.8	33544.1	31710.7	31043.3	31699.8	29719.2	29119.9
65°	29079.1	29781.9	30561.0	30443.9	30754.4	31626.2	32579.8	31272.1	28520.5	27667.9
67.5°	27891.2	26286.6	26561.8	25780.0	25627.4	28117.4	31955.9	29179.8	26175.0	25131.6
70°	23510.6	20137.9	19999.0	20358.6	19372.4	22764.2	28694.9	25150.6	22303.8	21121.4
72.5°	18506.0	14231.7	13060.2	14384.3	14354.3	17367.3	23837.5	17846.8	15068.1	14967.2
75°	14553.2	9908.2	8695.9	8911.2	9325.2	12572.6	18985.6	11333.1	9278.9	8456.2
77.5°	9769.3	7020.5	6549.2	6284.9	6731.7	8072.0	12011.4	6146.0	5203.4	4928.2
80°	5631.1	5099.8	5791.9	5257.8	5497.6	5086.2	5974.4	2819.7	2340.2	2533.6
82.5°	3664.2	2904.1	3094.8	2299.3	3143.8	3171.1	1917.9	833.7	705.6	749.2
85°	2291.1	1362.1	765.5	544.9	1084.3	1994.1	599.3	51.8	59.9	51.8
87.5°	593.9	226.1	95.4	141.6	174.4	155.3	138.9	8.1	2.7	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)