

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: P651129

Luminaire Tested: **GALN-SA9C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29632.7 lumens  
Efficiency: N/A  
Efficacy: 61.6 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

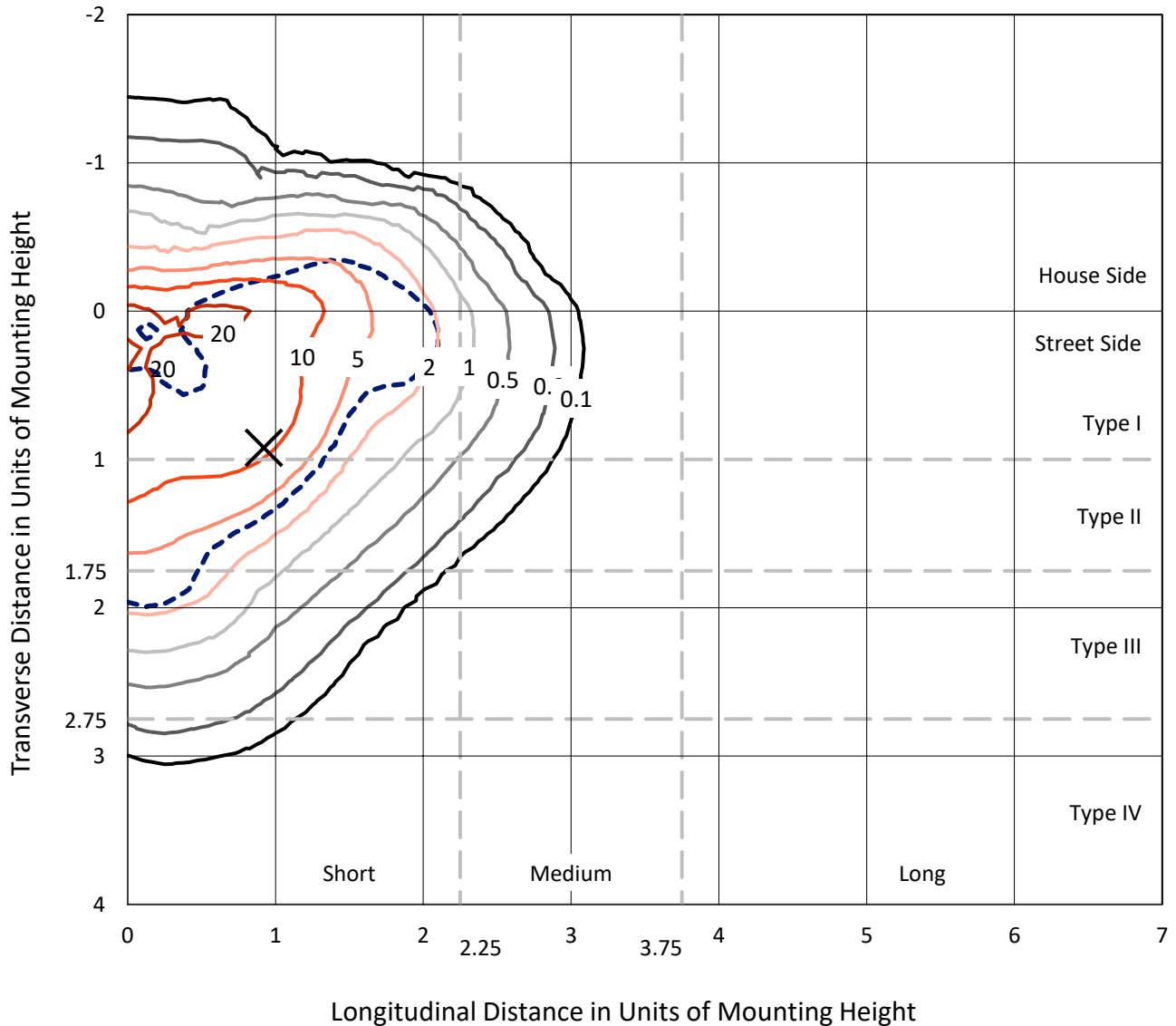
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

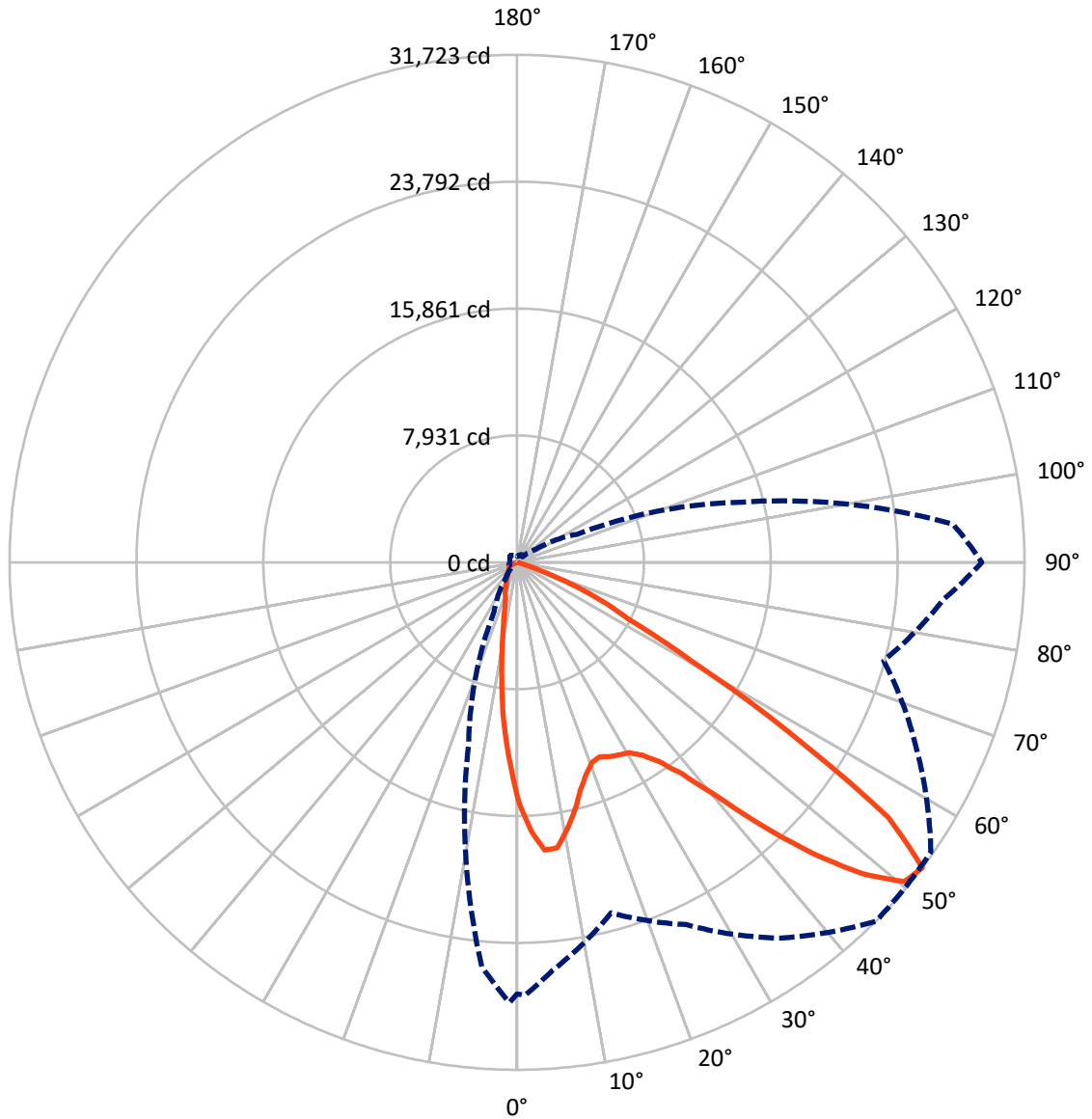
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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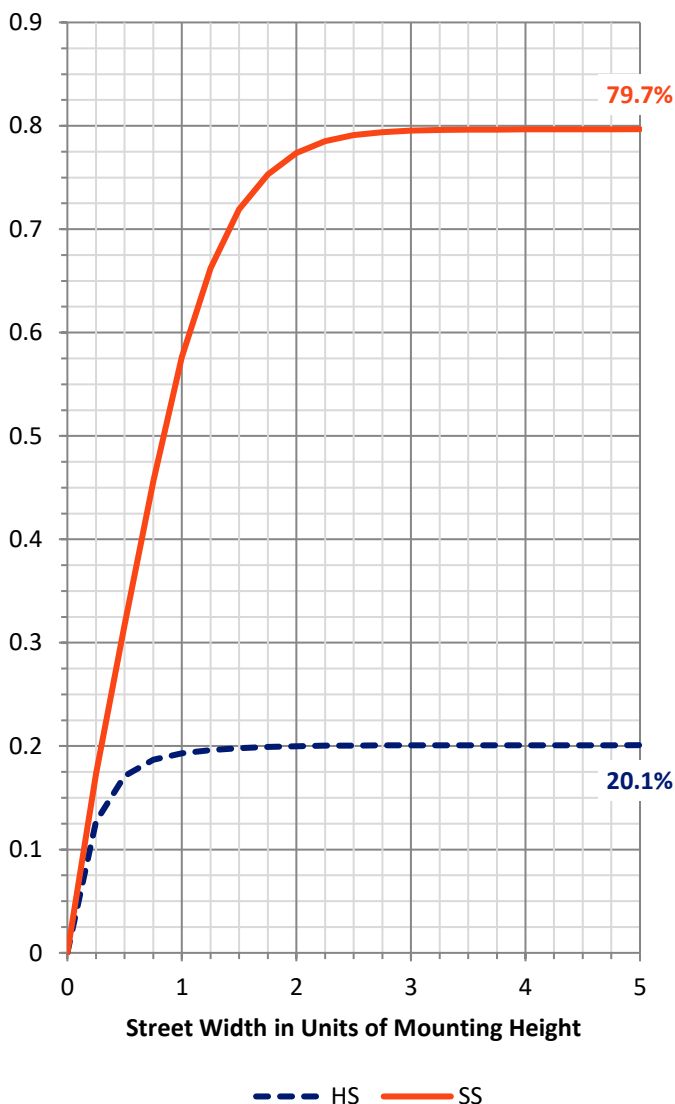
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6014.0	0.0	6014.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	23618.7	0.0	23618.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	29632.7	0.0	29632.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1095.8	3.7
10°-20°	2161.9	7.3
20°-30°	3290.0	11.1
30°-40°	4917.4	16.6
40°-50°	7002.8	23.6
50°-60°	7527.8	25.4
60°-70°	3335.7	11.3
70°-80°	269.9	0.9
80°-90°	31.5	0.1
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°	29632.7	100.0
0°-180°	29632.7	100.0

**Coefficient of Utilization**



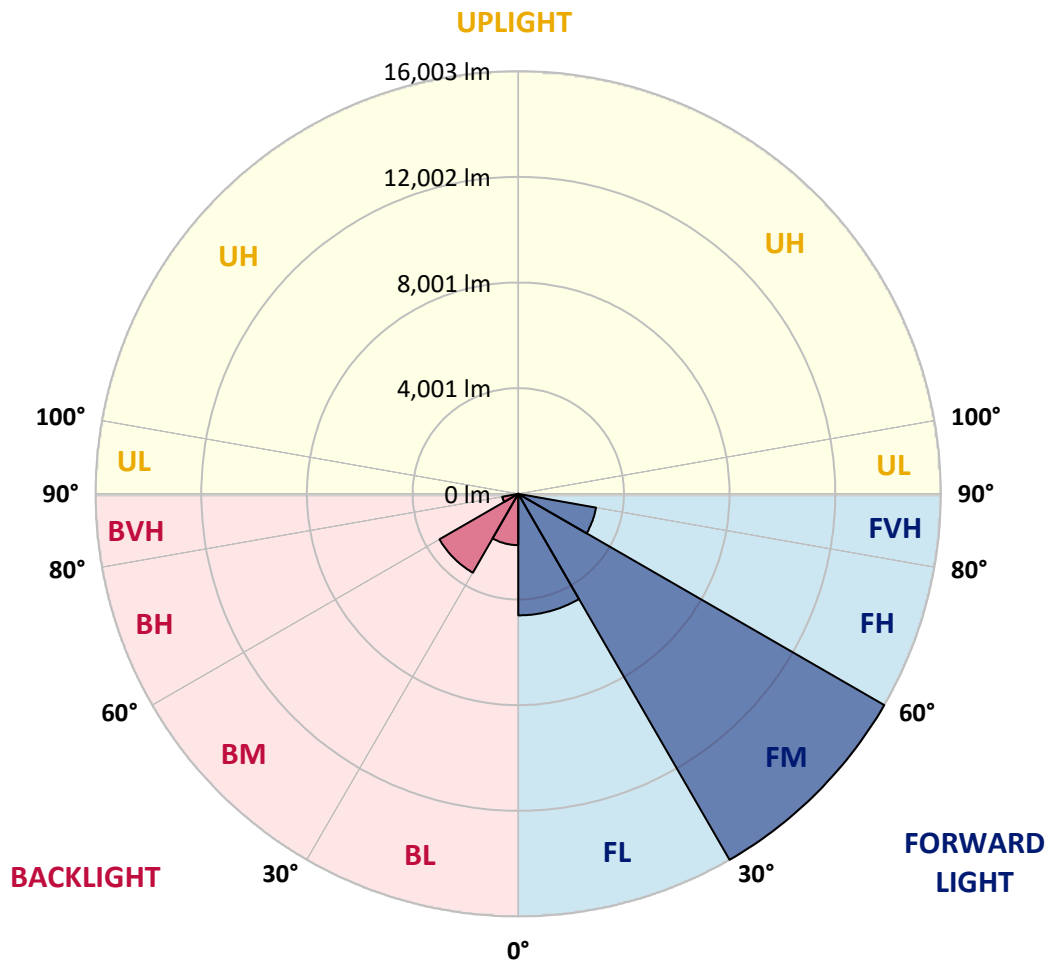
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4602.6	15.5			
FM (30°-60°)	16002.6	54.0			
FH (60°-80°)	2990.3	10.1			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	1945.1	6.6	B3/2500		
BM (30°-60°)	3445.3	11.6	B3/5000		
BH (60°-80°)	615.3	2.1	B2/1000		G2/1000
BVH (80°-90°)	8.2	0.0			G0/10
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°	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1
2.5°	15899.4	15945.9	16202.5	16523.0	16692.0	17076.7	16808.6	16878.5	16732.8	16219.9	15817.8
5°	15415.6	15409.8	15736.2	16528.8	17280.6	18044.2	18067.5	17659.5	16942.6	16155.8	15030.9
7.5°	13958.6	14185.8	14523.9	15788.6	17181.5	17752.8	18026.7	17548.7	16447.2	15322.3	14104.2
10°	12857.0	12973.6	13544.7	15071.7	16091.7	16855.2	17024.2	16750.3	15905.2	14500.6	13136.8
12.5°	12221.7	12280.0	12950.3	14232.5	15310.7	15876.1	15957.6	16085.9	15479.7	14162.5	12524.8
15°	12227.6	12274.2	13177.5	14250.0	14675.4	14523.9	14792.0	14786.1	15048.4	14098.4	13037.7
17.5°	13107.7	13160.1	13976.1	14506.4	14319.9	13964.4	13946.9	14215.0	14768.7	14896.9	13812.8
20°	14623.0	14745.3	15345.6	15316.5	14267.5	13550.6	13352.4	13556.4	14844.4	15573.0	15374.8
22.5°	16662.8	16831.9	17251.5	16447.2	14506.4	13270.8	13206.7	13603.0	15345.6	17082.5	17146.6
25°	19029.1	19314.7	19518.7	18487.1	15357.3	13754.6	13451.5	14133.4	16021.7	18720.2	19402.1
27.5°	20596.9	20894.1	20847.5	19372.9	15928.5	13882.8	13626.4	14261.6	16610.4	19110.7	20579.4
30°	21820.8	22001.5	22327.9	19850.9	16499.7	14244.2	13807.0	14803.6	16802.8	19786.8	22001.5
32.5°	23248.7	23371.1	23394.4	20696.0	17379.7	14698.7	14366.6	15479.7	17653.7	20433.7	23260.4
35°	24688.3	24869.0	24490.2	21739.3	17921.7	15543.9	15299.1	16651.2	18335.6	21104.0	24647.5
37.5°	26250.2	26343.5	25469.3	22170.5	18696.9	16919.3	16785.3	17915.9	19518.7	22316.2	26186.1
40°	27561.6	27649.1	26512.5	22700.9	19512.9	18842.6	19186.5	20328.8	21127.3	23103.0	26955.5
42.5°	28290.1	28494.1	26862.2	22409.5	21150.6	21022.3	22549.3	22951.5	22992.3	23324.5	27643.2
45°	28488.3	28395.0	26285.2	22648.4	22584.3	24606.7	25993.8	26524.2	24845.7	23732.4	27818.0
47.5°	27573.3	27695.6	25434.3	22438.6	24466.8	27322.7	29117.8	30102.7	26226.9	23376.9	27386.7
50°	26833.1	26675.7	25160.4	22287.1	24973.9	28604.8	31373.3	31594.7	27497.5	23814.1	26914.7
52.5°	26978.8	27077.8	25597.5	22689.3	24985.5	28680.6	31722.9	31571.4	27538.3	23715.0	26745.7
55°	27287.7	26850.5	25411.0	21803.3	23312.9	26565.0	28156.1	27923.0	25416.8	22660.1	26331.9
57.5°	23546.0	24222.1	23365.3	19466.2	19134.0	20014.0	19984.9	20701.8	18959.2	19501.2	23971.4
60°	19110.7	19227.3	19547.8	16651.2	13241.7	12938.6	12519.0	12064.4	12758.0	16674.5	21803.3
62.5°	16808.6	16668.7	17811.0	15147.5	9348.5	7827.3	7757.4	8037.1	9843.8	15905.2	20451.2
65°	12215.9	12390.8	13218.4	11755.5	7017.1	5973.9	5869.0	6696.6	7967.1	12746.3	15608.0
67.5°	7460.1	7798.2	7873.9	7250.3	4761.7	3782.5	3630.9	4382.8	5752.4	8246.9	9150.2
70°	3444.5	3852.5	4237.1	3957.3	2756.7	1556.1	1468.7	1841.7	2902.5	4744.2	4854.9
72.5°	1043.3	1049.1	1468.7	1532.8	891.7	349.7	308.9	408.0	985.0	1567.8	1649.4
75°	75.8	81.6	198.1	227.3	169.0	87.5	93.3	110.8	209.8	349.7	262.3
77.5°	5.8	5.8	5.8	29.2	52.5	58.3	75.8	87.5	110.8	128.3	116.6
80°	5.8	0.0	5.8	23.3	40.8	58.3	70.0	81.6	87.5	99.1	87.5
82.5°	0.0	0.0	0.0	17.5	40.8	58.3	64.1	87.5	99.1	116.6	99.1
85°	0.0	0.0	0.0	17.5	40.8	64.1	58.3	29.2	0.0	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°	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1
2.5°	15887.7	15660.4	15141.7	14879.4	14261.6	14174.2	13568.1	13469.0	13265.0	13154.2	12886.1
5°	14535.6	14261.6	13416.6	12705.5	11877.9	11300.9	10858.0	10455.8	10222.7	10007.1	10106.1
7.5°	13434.0	12635.5	11697.2	10508.3	9552.4	8934.6	8258.5	7704.9	7378.5	7157.1	7209.5
10°	12280.0	11761.3	10455.8	9121.1	7967.1	7530.1	6999.6	6574.2	6113.8	5717.5	5531.0
12.5°	11918.7	11149.4	9511.6	8153.7	7279.4	6854.0	6247.9	5758.2	5169.6	4685.9	4516.8
15°	11982.8	11242.7	9255.2	7804.0	6772.4	6038.0	5315.3	4709.2	4062.3	3724.2	3549.4
17.5°	13026.1	11743.8	9424.2	7436.8	6067.1	5047.3	4155.5	3386.2	2902.5	2552.8	2477.0
20°	14308.3	12827.9	9785.5	7168.7	5490.1	4015.6	3036.5	2372.0	1970.0	1911.7	1894.2
22.5°	16185.0	14599.7	10560.7	6988.0	4785.0	3129.8	2080.6	1725.1	1614.4	1602.8	1608.6
25°	18807.6	16820.3	11405.8	6836.5	4254.6	2412.9	1701.8	1462.9	1427.9	1410.4	1439.5
27.5°	19944.1	18160.7	11854.6	6510.1	3770.9	2173.9	1678.6	1451.2	1352.2	1323.0	1340.5
30°	21348.7	19052.4	12559.8	5950.6	3059.8	1789.2	1567.8	1579.5	1532.8	1387.1	1340.5
32.5°	23213.8	20165.6	12915.3	5554.3	2733.4	1480.3	1148.1	1054.9	1177.3	1200.6	1241.4
35°	24408.5	21296.3	13096.0	5321.2	2564.4	1264.7	973.3	885.9	856.7	862.6	885.9
37.5°	26629.1	22823.2	13323.3	5076.4	2436.2	1101.5	880.0	798.4	757.7	757.7	781.0
40°	27958.0	24035.5	13632.2	4942.3	2308.0	1002.5	798.4	728.6	693.6	693.6	705.2
42.5°	28290.1	24635.8	13527.2	4895.7	2162.3	979.2	728.6	676.1	635.3	629.5	623.6
45°	28884.6	25550.8	13544.7	4843.2	2010.7	891.7	687.8	629.5	571.1	565.3	559.5
47.5°	29537.3	26209.4	13579.7	4639.3	1865.0	746.1	716.9	582.8	512.8	501.2	501.2
50°	28977.8	26734.0	13882.8	4435.3	1678.6	606.1	705.2	547.8	454.6	437.2	443.0
52.5°	29047.8	27351.8	14523.9	4149.7	1445.4	483.7	571.1	518.7	413.8	384.7	390.5
55°	27928.8	26699.1	14611.3	3846.6	1130.6	373.0	437.2	454.6	349.7	338.0	338.0
57.5°	24041.3	22607.6	12892.0	3118.1	746.1	308.9	314.7	396.3	303.1	291.4	297.2
60°	20573.6	18149.0	10374.2	2057.3	466.3	244.8	227.3	402.2	268.1	262.3	279.7
62.5°	18755.1	14914.4	7868.1	1276.4	320.6	186.5	157.4	326.4	233.1	233.1	256.4
65°	13550.6	10018.7	4575.1	670.3	227.3	145.7	116.6	186.5	192.3	198.1	209.8
67.5°	8392.6	5058.9	1929.2	326.4	151.5	99.1	75.8	116.6	128.3	128.3	139.9
70°	4143.9	2016.5	641.1	186.5	116.6	81.6	52.5	64.1	64.1	58.3	64.1
72.5°	1282.2	606.1	163.2	116.6	81.6	52.5	29.2	23.3	11.7	0.0	5.8
75°	145.7	116.6	104.9	81.6	52.5	23.3	5.8	0.0	0.0	0.0	0.0
77.5°	87.5	99.1	99.1	81.6	52.5	17.5	0.0	0.0	0.0	0.0	0.0
80°	70.0	75.8	81.6	75.8	46.6	23.3	0.0	0.0	0.0	0.0	0.0
82.5°	87.5	99.1	110.8	99.1	64.1	29.2	11.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	17.5	5.8	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1
2.5°	12775.5	12647.2	12827.9	12559.8	12553.9	12559.8	12484.1	12414.1	12524.8	12822.1	12851.2
5°	9750.6	10024.6	10111.9	10397.5	10240.2	10007.1	10053.7	9896.3	10281.0	10450.0	10316.0
7.5°	7098.8	7081.3	7669.9	7704.9	7780.7	7786.5	7774.8	7466.0	7151.2	7221.2	7431.0
10°	5507.6	5210.4	5496.0	5466.8	5653.4	5600.9	5676.7	5344.5	5455.2	5455.2	5589.3
12.5°	4487.7	4173.0	4120.6	4044.8	4120.6	4149.7	4178.8	4114.7	4301.2	4388.7	4481.9
15°	3427.0	3252.1	3205.6	3059.8	3083.1	3164.7	3234.7	3263.8	3205.6	3339.5	3351.2
17.5°	2488.7	2482.8	2512.0	2506.1	2482.8	2465.3	2459.5	2383.7	2360.4	2372.0	2418.7
20°	1888.4	1935.0	2034.0	2133.1	2185.6	2121.5	2034.0	1905.8	1853.4	1865.0	1870.9
22.5°	1614.4	1684.4	1818.4	1929.2	1981.6	1865.0	1707.7	1596.9	1573.6	1567.8	1562.0
25°	1462.9	1544.5	1643.6	1678.6	1672.7	1602.8	1486.2	1439.5	1427.9	1416.2	1363.8
27.5°	1381.3	1410.4	1427.9	1468.7	1486.2	1439.5	1410.4	1340.5	1328.9	1328.9	1293.9
30°	1334.7	1317.2	1340.5	1311.4	1334.7	1299.7	1305.5	1305.5	1276.4	1288.1	1288.1
32.5°	1241.4	1247.2	1247.2	1188.9	1206.4	1165.6	1206.4	1241.4	1247.2	1253.1	1299.7
35°	909.2	1014.1	1066.6	1066.6	1084.0	1054.9	1049.1	1008.3	955.8	903.4	880.0
37.5°	798.4	839.2	909.2	950.0	979.2	955.8	903.4	839.2	810.1	786.8	763.5
40°	711.1	746.1	792.6	839.2	897.5	868.4	786.8	757.7	722.7	722.7	699.4
42.5°	641.1	658.6	687.8	757.7	821.7	763.5	705.2	681.9	664.4	658.6	652.8
45°	577.0	582.8	612.0	670.3	746.1	687.8	629.5	600.3	606.1	612.0	606.1
47.5°	518.7	530.3	547.8	617.8	664.4	635.3	571.1	553.7	553.7	553.7	559.5
50°	448.8	477.9	512.8	571.1	606.1	588.6	536.2	512.8	501.2	501.2	507.0
52.5°	402.2	425.5	472.1	542.0	588.6	559.5	507.0	472.1	448.8	443.0	454.6
55°	349.7	390.5	466.3	518.7	582.8	553.7	495.4	454.6	413.8	408.0	408.0
57.5°	314.7	378.9	448.8	512.8	565.3	542.0	495.4	443.0	390.5	384.7	384.7
60°	297.2	367.2	437.2	495.4	565.3	530.3	489.5	431.3	373.0	373.0	367.2
62.5°	279.7	343.9	413.8	472.1	542.0	512.8	472.1	413.8	355.5	355.5	343.9
65°	233.1	297.2	343.9	396.3	472.1	443.0	402.2	361.4	314.7	303.1	308.9
67.5°	163.2	204.0	250.6	303.1	349.7	338.0	320.6	291.4	250.6	244.8	238.9
70°	81.6	110.8	151.5	204.0	244.8	233.1	221.4	198.1	174.8	169.0	169.0
72.5°	11.7	35.0	64.1	93.3	128.3	134.1	128.3	122.4	116.6	110.8	116.6
75°	0.0	0.0	0.0	23.3	52.5	64.1	75.8	87.5	87.5	75.8	93.3
77.5°	0.0	0.0	0.0	0.0	5.8	29.2	58.3	75.8	93.3	81.6	110.8
80°	0.0	0.0	0.0	0.0	5.8	35.0	58.3	81.6	93.3	81.6	116.6
82.5°	0.0	0.0	0.0	0.0	5.8	40.8	58.3	75.8	87.5	81.6	104.9
85°	0.0	0.0	0.0	0.0	17.5	35.0	23.3	11.7	5.8	5.8	17.5
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



REPORT NUMBER: P651129

CATALOG NUMBER: GALN-SA9C-840-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1	15025.1
2.5°	13014.4	13428.2	13871.1	14040.2	14564.7	14961.1	15229.1	15806.1	15893.6	15899.4
5°	10455.8	10665.6	11423.3	11778.8	12559.8	13165.9	13812.8	14745.3	15369.0	15415.6
7.5°	7431.0	8013.8	8334.3	9261.0	10222.7	11172.7	12134.4	13218.4	13941.1	13958.6
10°	5979.8	6358.5	6929.8	7623.3	8433.4	9400.9	10683.1	11942.0	12676.4	12857.0
12.5°	4814.1	5478.5	6131.3	6848.2	7466.0	8194.5	9575.7	11254.3	11860.4	12221.7
15°	3706.7	4312.9	5082.2	5921.5	6620.9	7594.1	9167.7	11085.2	12105.2	12227.6
17.5°	2733.4	3275.4	3986.5	4779.2	5828.2	7209.5	9237.7	11942.0	12903.6	13107.7
20°	1964.1	2278.9	2838.4	3759.2	5093.9	6760.7	9307.7	12810.4	14273.3	14623.0
22.5°	1556.1	1684.4	2051.5	2867.5	4272.1	6288.7	9803.0	14471.4	16155.8	16662.8
25°	1352.2	1422.0	1596.9	2261.4	3753.4	6242.0	10595.7	16464.7	18662.0	19029.1
27.5°	1305.5	1317.2	1468.7	2074.8	3473.6	5933.1	10898.8	17880.9	20223.9	20596.9
30°	1375.5	1562.0	1573.6	1754.3	2954.9	5321.2	11056.1	19250.6	21546.9	21820.8
32.5°	1188.9	1130.6	1171.4	1358.0	2599.4	4965.6	11353.3	20445.4	23056.4	23248.7
35°	827.6	868.4	961.7	1177.3	2273.0	4592.6	11429.1	21762.6	24490.2	24688.3
37.5°	763.5	786.8	862.6	1002.5	1999.1	4382.8	11324.2	22724.2	25976.3	26250.2
40°	711.1	740.2	781.0	909.2	1795.1	4149.7	11178.5	23592.6	26885.5	27561.6
42.5°	670.3	693.6	728.6	868.4	1620.3	3916.5	10974.5	24816.5	27701.4	28290.1
45°	623.6	658.6	699.4	845.1	1521.2	3759.2	10823.0	24740.7	28173.6	28488.3
47.5°	577.0	635.3	681.9	786.8	1492.0	3683.4	10887.1	24455.2	27788.9	27573.3
50°	530.3	606.1	687.8	652.8	1422.0	3531.9	10962.9	24845.7	26873.9	26833.1
52.5°	489.5	577.0	641.1	536.2	1264.7	3386.2	11697.2	25358.5	27520.8	26978.8
55°	431.3	518.7	512.8	431.3	1025.8	3275.4	12274.2	25370.2	27083.6	27287.7
57.5°	390.5	460.4	402.2	361.4	757.7	2739.2	11335.8	21272.9	23184.6	23546.0
60°	361.4	448.8	303.1	285.6	495.4	1975.8	9896.3	16476.4	18428.8	19110.7
62.5°	332.2	425.5	238.9	233.1	343.9	1404.6	8136.2	13789.5	15881.9	16808.6
65°	291.4	303.1	192.3	180.6	244.8	757.7	4954.0	9494.1	11872.1	12215.9
67.5°	238.9	233.1	157.4	145.7	163.2	367.2	2185.6	4755.9	6883.1	7460.1
70°	192.3	192.3	134.1	116.6	116.6	169.0	571.1	1894.2	3112.3	3444.5
72.5°	139.9	145.7	104.9	93.3	87.5	81.6	93.3	378.9	815.9	1043.3
75°	122.4	128.3	104.9	81.6	64.1	52.5	40.8	35.0	46.6	75.8
77.5°	134.1	134.1	110.8	75.8	58.3	40.8	23.3	11.7	11.7	5.8
80°	169.0	174.8	145.7	99.1	70.0	46.6	29.2	11.7	5.8	5.8
82.5°	180.6	198.1	163.2	122.4	87.5	52.5	29.2	5.8	0.0	0.0
85°	46.6	75.8	128.3	110.8	87.5	52.5	29.2	5.8	0.0	0.0
87.5°	0.0	5.8	17.5	17.5	23.3	23.3	17.5	5.8	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)