

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: P652617

Luminaire Tested: **GALN-SA9B-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37395.1 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

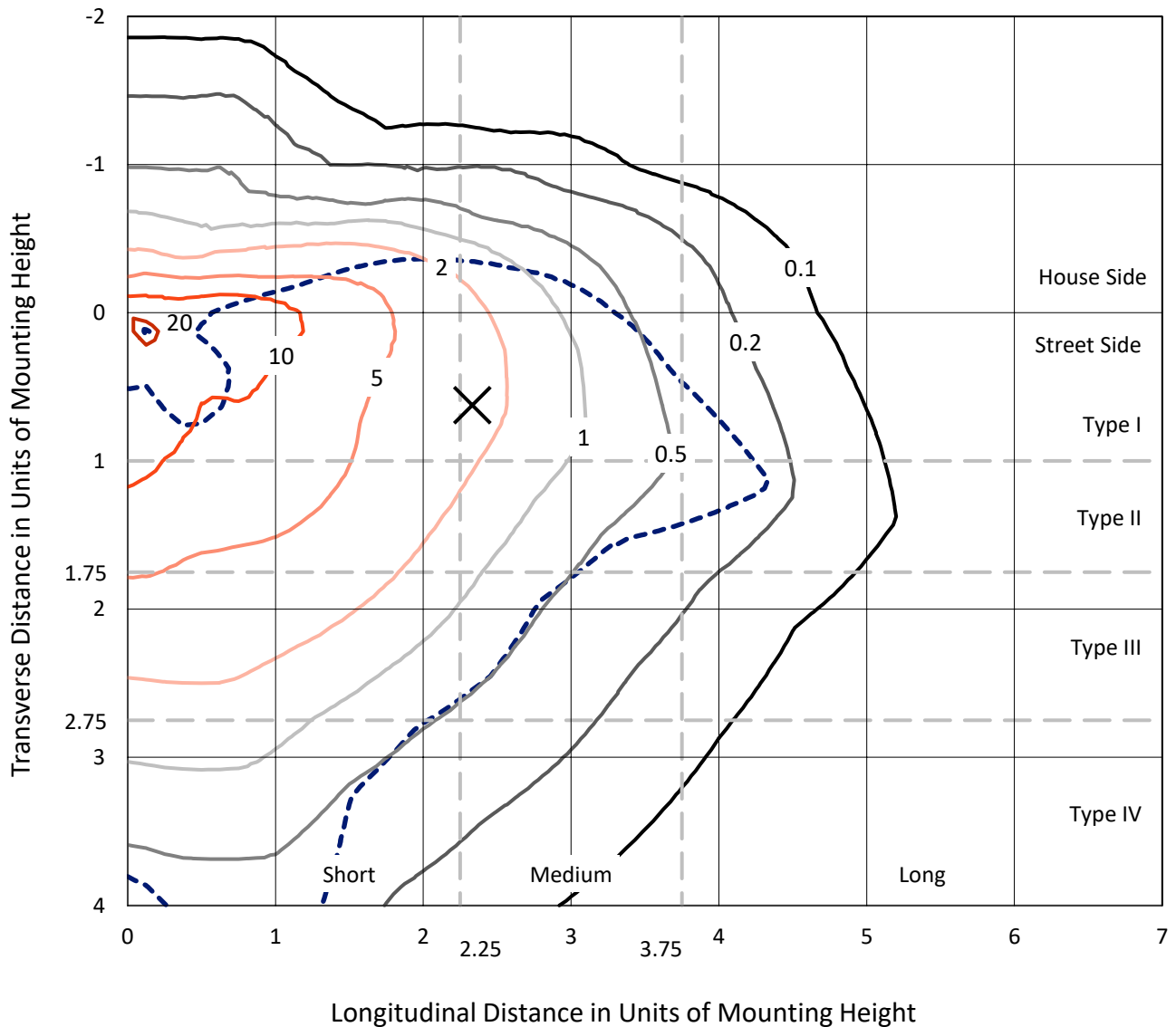
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

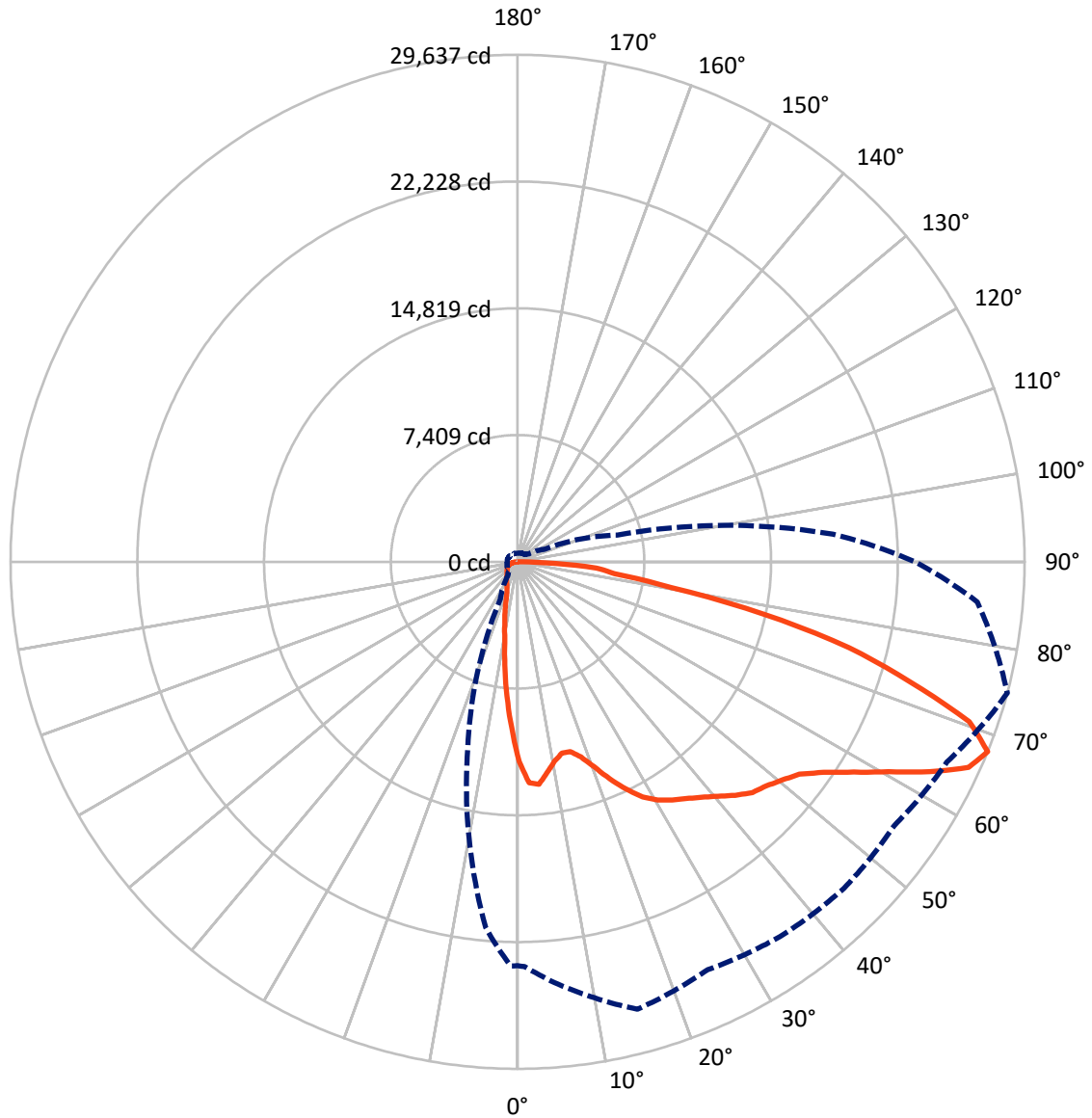
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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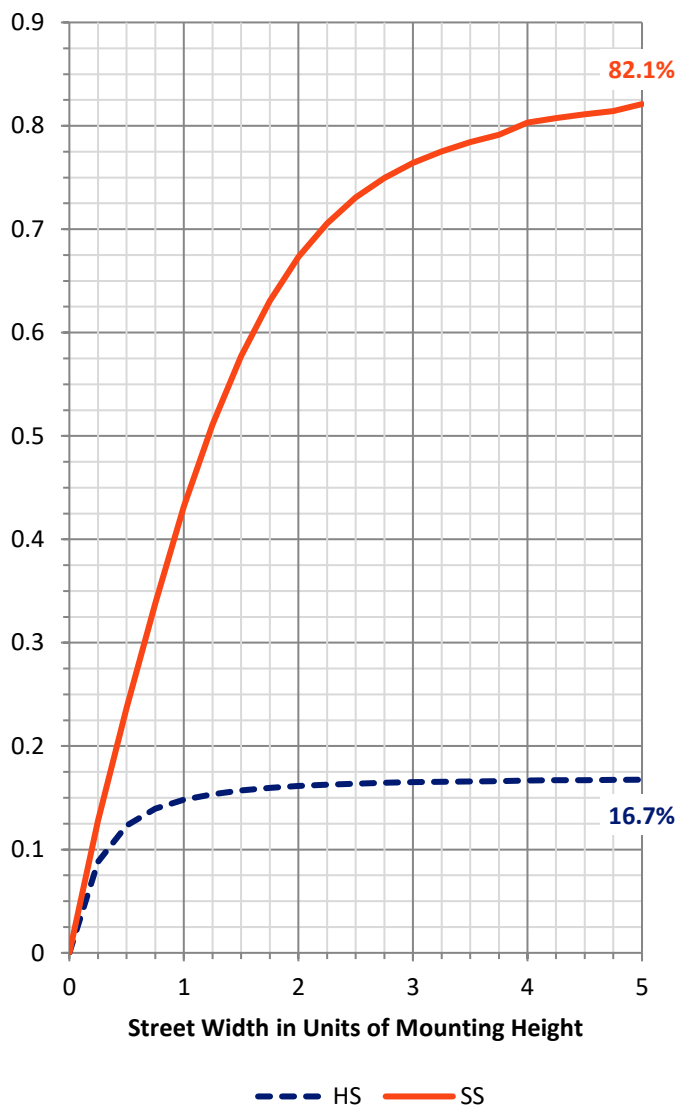
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6320.6	0.0	6320.6
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	31074.5	0.0	31074.5
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	37395.1	0.0	37395.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	886.1	2.4
10°-20°	1848.1	4.9
20°-30°	2659.4	7.1
30°-40°	3830.2	10.2
40°-50°	5380.4	14.4
50°-60°	7503.8	20.1
60°-70°	8921.6	23.9
70°-80°	5254.3	14.1
80°-90°	1111.1	3.0
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°	37395.1	100.0
0°-180°	37395.1	100.0

**Coefficient of Utilization**

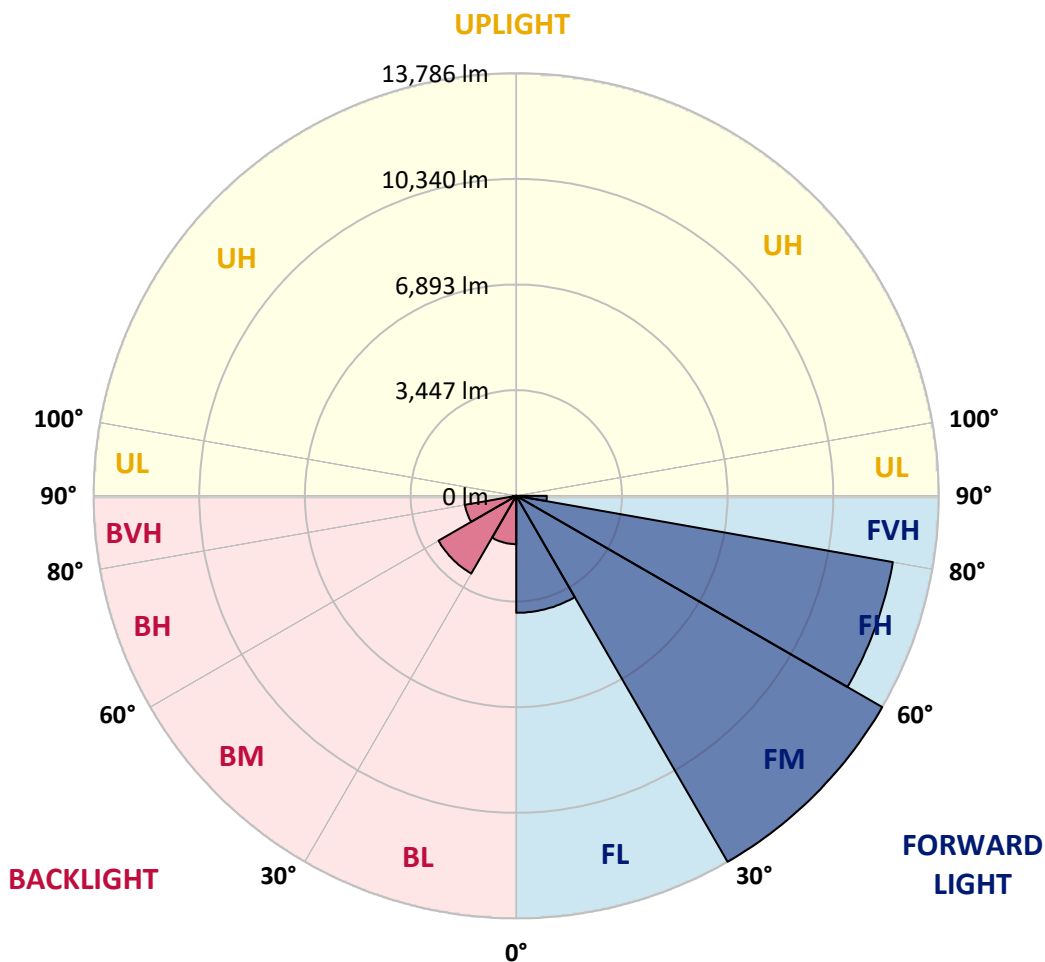


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3817.0	10.2			
FM (30°-60°)	13786.2	36.9			
FH (60°-80°)	12475.1	33.4			G5
FVH (80°-90°)	996.2	2.7			G5
BL (0°-30°)	1576.5	4.2	B3/2500		
BM (30°-60°)	2928.3	7.8	B3/5000		
BH (60°-80°)	1700.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	114.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1
2.5°	12596.8	12613.6	12721.5	13035.6	13251.4	13330.5	13385.7	13282.6	13181.8	12937.3	12568.0
5°	12558.4	12656.7	12937.3	13642.3	14198.6	14438.5	14510.4	14201.0	13690.2	13062.0	12306.6
7.5°	11824.5	11956.5	12388.1	13570.4	14551.2	15112.3	15037.9	14479.2	13558.3	12438.5	11383.4
10°	10954.1	11100.4	11620.8	13050.0	14313.7	15085.9	15085.9	14404.8	13181.8	11851.0	10635.2
12.5°	10263.5	10417.0	11011.6	12515.2	13819.7	14551.2	14673.4	14088.3	12910.9	11479.3	10143.6
15°	10035.7	10184.3	10824.6	12191.5	13297.0	13743.0	13783.7	13591.9	12779.0	11505.6	10122.0
17.5°	10318.6	10510.5	11158.0	12287.4	12817.3	12843.8	12875.0	13026.0	12793.4	11987.6	10558.4
20°	11136.4	11342.6	12018.8	12596.8	12397.7	12124.4	12141.1	12529.6	12963.7	12783.8	11601.6
22.5°	12316.2	12496.0	13189.1	13141.1	12220.2	11656.8	11539.2	12081.1	13215.4	13776.6	12711.9
25°	13589.6	13800.6	14596.6	13949.2	12270.6	11378.6	11304.2	11817.4	13476.8	14704.6	13994.7
27.5°	15047.5	15253.7	15882.0	14764.5	12534.4	11356.9	11268.2	11793.4	13711.8	15563.0	15220.2
30°	16131.4	16320.9	16747.7	15450.3	12858.1	11500.8	11390.6	11982.8	13913.3	16150.6	16414.4
32.5°	16982.7	17179.4	17412.0	15877.2	13284.9	11762.2	11558.4	12328.1	14177.1	16599.0	17299.2
35°	17870.0	18102.6	18085.8	16256.1	13683.1	12064.4	11865.3	12826.9	14591.9	16989.9	18421.5
37.5°	18994.7	19088.2	18968.3	16596.6	14160.3	12608.8	12498.4	13567.9	15181.8	17462.3	19733.2
40°	20136.1	20323.1	19706.8	17009.1	14740.5	13632.7	13620.7	14663.8	15882.0	18016.2	21004.1
42.5°	21114.5	21272.8	20397.4	17368.8	15443.2	14882.1	14973.2	16133.8	16800.5	18658.9	22025.7
45°	21850.7	21992.1	21035.3	17716.5	16368.8	16325.7	16862.8	17709.3	17958.7	19236.9	22625.3
47.5°	22476.6	22613.2	21479.0	18244.1	17512.6	18049.8	18985.1	19351.9	18949.1	19567.8	23296.6
50°	23004.1	23044.9	21783.5	18872.4	18932.3	20162.5	21068.9	21306.3	19927.5	20042.5	23879.4
52.5°	23553.2	23500.5	22308.7	19663.7	20467.0	22167.2	22826.7	23073.7	20865.0	20627.7	24728.3
55°	24783.4	24833.8	23486.1	20661.3	22018.6	24135.9	25004.0	24766.6	21903.4	21704.4	25807.3
57.5°	26270.2	26227.0	25143.1	22222.3	23598.8	25968.1	26615.5	26234.2	23289.5	23183.9	26900.9
60°	26848.1	26905.7	26529.2	23901.0	25157.5	27572.4	28234.1	27641.8	24951.3	24903.4	27725.8
62.5°	26267.8	26591.5	26845.7	25394.9	26486.0	28752.1	29409.2	28732.9	26685.0	27032.8	28303.7
65°	25111.9	25181.5	26047.2	26661.0	27126.3	28946.4	29289.3	28929.6	28133.5	28972.8	28277.4
67.5°	23610.8	23670.8	24685.1	27075.9	26301.3	26740.2	26980.0	26874.5	27685.0	29637.0	26975.2
70°	22181.6	22133.6	23205.5	26018.4	22896.2	22229.6	22428.5	22097.7	23888.9	28013.5	24421.3
72.5°	19399.9	19572.6	20723.6	23078.5	18128.9	17045.1	17479.1	16623.0	18373.6	23992.0	19821.9
75°	15196.2	15237.0	17157.7	19368.7	13675.8	11966.1	12553.6	12196.3	14073.9	20013.8	13687.9
77.5°	10522.5	10431.3	12496.0	14793.4	9752.7	8759.9	8769.5	8599.2	9827.1	14735.7	9299.4
80°	6683.3	6544.2	7822.3	9138.8	6702.4	7170.0	6935.1	6927.8	6397.9	9090.9	5623.3
82.5°	3611.4	3764.9	4942.3	5728.8	4808.0	5541.8	5079.0	4930.3	4390.8	5690.5	3597.0
85°	1645.0	1788.9	2635.4	3896.8	3652.2	3692.9	2467.6	2911.2	3633.0	4621.0	1920.8
87.5°	160.6	206.2	544.4	1839.3	1247.0	983.2	366.9	707.4	913.7	1642.6	153.5
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: P652617  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1
2.5°	12416.9	12292.2	11867.8	11517.7	11145.9	10862.9	10493.7	10246.7	10076.4	9819.9	9788.7
5°	11846.2	11541.6	10803.1	10050.0	9400.2	8911.0	8414.6	7959.0	7690.4	7606.5	7498.6
7.5°	10884.6	10371.4	9421.8	8558.5	7812.7	7083.7	6522.6	6124.5	5858.3	5702.5	5515.4
10°	10093.3	9498.5	8342.6	7285.2	6671.2	6218.0	5724.0	5297.2	4968.7	4688.1	4534.7
12.5°	9560.8	8889.5	7589.7	6731.2	6256.4	5774.4	5196.5	4716.9	4232.5	3913.6	3776.8
15°	9400.2	8690.4	7357.1	6455.4	5774.4	5143.7	4496.2	3870.4	3390.7	3088.7	2987.9
17.5°	9793.4	8935.0	7354.7	6088.6	5208.5	4455.5	3625.8	3038.3	2546.7	2321.2	2249.3
20°	10527.3	9405.0	7376.2	5726.5	4594.6	3534.6	2637.8	2155.8	1920.8	1824.9	1788.9
22.5°	11551.2	10122.0	7441.0	5369.1	3923.2	2714.6	1975.9	1731.4	1647.4	1630.6	1623.5
25°	12812.6	11009.3	7659.2	5047.9	3357.2	2071.9	1652.2	1541.9	1494.0	1477.1	1474.8
27.5°	13973.2	12155.5	7923.1	4772.0	2810.5	1786.5	1494.0	1400.4	1352.5	1350.1	1354.9
30°	15021.1	13114.7	8143.7	4462.7	2395.6	1587.5	1390.8	1297.3	1251.7	1249.4	1263.8
32.5°	15927.6	13903.7	8306.7	4158.2	2165.4	1465.2	1297.3	1196.6	1158.2	1151.1	1158.2
35°	16896.4	14690.2	8232.4	3920.7	2033.5	1364.4	1227.8	1129.5	1083.9	1062.4	1062.4
37.5°	18001.9	15500.7	8105.3	3724.1	1973.6	1280.5	1167.8	1071.9	1026.4	1004.7	1002.4
40°	19208.0	16311.3	7930.2	3549.0	1913.6	1230.2	1127.0	1026.4	971.2	949.6	944.8
42.5°	20272.8	17004.3	7786.3	3434.0	1815.3	1239.8	1091.1	992.8	923.2	894.5	892.0
45°	21198.4	17702.1	7760.0	3366.8	1733.7	1225.4	1081.5	966.4	884.9	853.7	848.9
47.5°	21922.6	18428.7	7911.0	3328.4	1645.0	1148.6	1143.8	949.6	851.3	817.7	812.9
50°	22805.1	19459.8	8256.3	3249.3	1563.5	1076.7	1208.6	947.2	824.9	781.7	769.8
52.5°	23980.1	20802.7	8723.9	3107.8	1446.0	1009.5	1153.4	947.2	793.7	750.6	736.2
55°	25757.1	22514.9	9182.0	2908.8	1280.5	920.8	1040.7	918.5	748.2	709.8	700.2
57.5°	26934.5	23766.7	9474.5	2633.0	1074.3	856.1	896.8	872.9	702.7	661.9	661.9
60°	26994.4	24102.4	9335.4	2285.3	944.8	796.2	779.4	880.1	661.9	618.7	613.9
62.5°	26303.8	23279.9	8611.3	1973.6	875.3	731.4	705.0	772.1	621.1	577.9	570.7
65°	25224.7	21181.6	7354.7	1824.9	836.9	673.8	635.5	633.1	577.9	537.1	527.6
67.5°	23241.5	18510.2	6043.0	1738.5	817.7	609.1	573.1	561.1	527.6	494.0	489.2
70°	20318.3	15503.2	4846.3	1702.6	808.1	541.9	513.2	498.8	470.0	443.6	441.3
72.5°	15807.7	12575.1	3999.9	1678.6	803.3	479.6	448.4	429.2	412.4	388.5	388.5
75°	11354.6	9251.5	3052.7	1513.1	743.4	412.4	378.9	366.9	342.9	323.7	328.5
77.5°	7158.1	6230.0	2009.6	1112.6	575.5	330.9	302.2	294.9	275.8	249.4	266.2
80°	4834.4	4381.2	1172.6	700.2	362.1	242.2	232.6	230.2	208.7	179.9	182.2
82.5°	3290.1	3227.8	609.1	398.0	208.7	141.5	136.7	141.5	117.5	96.0	96.0
85°	1285.3	1755.3	287.8	155.8	67.1	21.6	31.2	33.6	19.2	9.6	12.0
87.5°	24.0	179.9	7.2	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°	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1
2.5°	9740.7	9719.1	9755.1	9601.6	9632.8	9690.3	9719.1	9735.9	9973.3	9918.2	10069.2
5°	7599.3	7577.7	7716.8	7735.9	7807.9	7793.5	7863.1	7879.8	7966.2	7997.3	8208.4
7.5°	5527.4	5620.9	5779.2	5860.8	5983.0	6021.4	5985.4	6074.1	5894.3	6023.8	6062.2
10°	4441.2	4328.4	4261.3	4448.3	4472.3	4649.7	4577.8	4520.2	4625.8	4630.5	4731.3
12.5°	3697.7	3455.5	3294.9	3347.6	3405.2	3481.9	3493.9	3609.0	3685.8	3757.7	3817.6
15°	2899.2	2815.2	2669.0	2597.0	2678.6	2709.8	2784.1	2880.0	2961.6	2983.1	3064.7
17.5°	2225.4	2239.8	2215.8	2172.6	2222.9	2246.9	2251.7	2254.1	2275.7	2261.4	2381.2
20°	1791.3	1841.7	1901.6	1911.2	1928.0	1940.0	1918.4	1836.9	1839.3	1889.6	1928.0
22.5°	1621.0	1630.6	1697.8	1719.3	1772.2	1750.5	1688.2	1649.8	1645.0	1657.0	1676.2
25°	1486.8	1501.2	1549.1	1582.7	1623.5	1585.1	1539.5	1503.5	1498.7	1510.8	1529.9
27.5°	1366.9	1388.4	1431.6	1465.2	1503.5	1467.5	1424.4	1393.3	1390.8	1388.4	1400.4
30°	1270.9	1294.9	1326.1	1364.4	1390.8	1359.6	1318.9	1302.1	1299.7	1294.9	1299.7
32.5°	1175.0	1213.4	1244.6	1263.8	1290.1	1266.1	1235.0	1225.4	1208.6	1194.2	1187.0
35°	1067.1	1107.8	1155.9	1179.8	1206.2	1182.2	1160.7	1119.9	1091.1	1088.7	1093.5
37.5°	1004.7	1021.6	1059.9	1100.7	1127.0	1115.1	1074.3	1033.5	1026.4	1026.4	1031.2
40°	949.6	956.8	973.6	1026.4	1074.3	1038.3	988.0	976.0	976.0	973.6	976.0
42.5°	894.5	901.6	901.6	942.4	1019.1	961.6	923.2	923.2	923.2	925.6	932.8
45°	844.1	846.5	844.1	872.9	944.8	896.8	870.5	877.7	882.5	887.3	892.0
47.5°	801.0	803.3	801.0	824.9	860.8	841.7	827.3	836.9	846.5	853.7	858.5
50°	762.5	760.2	765.0	779.4	796.2	801.0	791.4	805.8	810.6	820.1	832.1
52.5°	729.0	726.6	731.4	738.6	762.5	762.5	762.5	774.6	784.1	793.7	810.6
55°	690.6	693.0	700.2	709.8	741.0	736.2	738.6	748.2	757.7	772.1	781.7
57.5°	654.6	659.4	669.0	683.4	714.6	712.2	714.6	719.4	731.4	738.6	748.2
60°	613.9	623.5	635.5	645.0	676.2	673.8	685.8	695.4	702.7	702.7	707.4
62.5°	573.1	587.5	599.5	606.7	640.3	642.7	659.4	666.7	671.5	666.7	673.8
65°	532.4	554.0	558.8	568.3	601.9	604.3	623.5	640.3	635.5	630.7	642.7
67.5°	491.6	518.0	515.5	527.6	561.1	565.9	582.7	611.5	601.9	597.1	606.7
70°	446.1	465.2	467.6	474.8	520.3	513.2	539.6	565.9	558.8	561.1	561.1
72.5°	395.7	412.4	412.4	426.8	474.8	462.8	484.4	513.2	513.2	510.7	510.7
75°	335.7	345.3	354.9	376.5	426.8	412.4	426.8	453.2	458.0	453.2	453.2
77.5°	271.0	285.4	290.1	318.9	354.9	352.5	366.9	378.9	388.5	383.7	383.7
80°	191.8	206.2	225.4	256.6	278.2	285.4	292.6	302.2	307.0	307.0	311.8
82.5°	107.9	129.5	146.2	177.5	187.0	223.0	220.6	227.8	220.6	194.3	215.8
85°	24.0	45.6	64.8	81.5	93.5	129.5	136.7	153.5	127.1	117.5	117.5
87.5°	0.0	0.0	0.0	0.0	0.0	19.2	38.3	52.7	45.6	38.3	38.3
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: P652617  
 CATALOG NUMBER: GALN-SA9B-840-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1	11683.1
2.5°	10196.4	10404.9	10656.7	11090.8	11395.4	11723.9	12054.8	12407.3	12500.8	12596.8
5°	8265.9	8676.0	8899.0	9481.8	10093.3	10870.2	11505.6	12201.1	12491.2	12558.4
7.5°	6261.2	6539.4	7124.4	7714.4	8472.1	9287.5	10261.1	11345.0	11683.1	11824.5
10°	4963.9	5342.8	5856.0	6489.0	7153.3	8031.0	9129.2	10395.3	10875.0	10954.1
12.5°	4225.3	4647.4	5206.0	5875.1	6503.4	7165.2	8273.2	9580.1	10093.3	10263.5
15°	3378.8	3889.5	4534.7	5239.7	5923.1	6647.3	7769.6	9244.4	9836.7	10035.7
17.5°	2654.6	3067.0	3764.9	4529.9	5340.3	6256.4	7664.0	9405.0	10134.0	10318.6
20°	2031.1	2326.0	2913.6	3721.7	4671.3	5870.3	7690.4	10011.7	10884.6	11136.4
22.5°	1755.3	1906.4	2263.7	3033.5	4095.8	5534.6	7798.3	10843.8	11896.5	12316.2
25°	1589.9	1669.0	1870.5	2374.1	3546.7	5208.5	8045.3	11963.6	13311.3	13589.6
27.5°	1448.4	1506.0	1630.6	1992.7	3047.9	4906.3	8333.0	13205.8	14632.6	15047.5
30°	1314.1	1390.8	1508.3	1769.7	2729.0	4630.5	8695.2	14213.0	15745.4	16131.4
32.5°	1211.0	1287.7	1395.6	1613.9	2458.0	4340.4	8911.0	15097.9	16654.2	16982.7
35°	1127.0	1191.8	1304.6	1489.2	2251.7	4119.8	8867.8	15800.5	17534.3	17870.0
37.5°	1067.1	1122.2	1235.0	1371.7	2095.9	3889.5	8846.2	16728.5	18606.1	18994.7
40°	1012.0	1069.5	1172.6	1294.9	1940.0	3618.6	8858.3	17649.3	19747.6	20136.1
42.5°	968.8	1033.5	1117.4	1273.4	1779.3	3400.4	8858.3	18450.3	20740.4	21114.5
45°	932.8	1002.4	1083.9	1270.9	1652.2	3234.9	8798.3	19138.6	21531.7	21850.7
47.5°	901.6	978.4	1095.9	1227.8	1621.0	3115.0	8745.6	19690.1	22176.8	22476.6
50°	880.1	971.2	1165.5	1177.4	1630.6	3079.1	8999.7	20385.5	22745.1	23004.1
52.5°	863.3	973.6	1163.0	1103.1	1613.9	3103.0	9529.7	21471.7	23534.0	23553.2
55°	829.7	971.2	1103.1	1019.1	1544.3	3143.8	10210.7	23049.7	24769.0	24783.4
57.5°	796.2	944.8	1023.9	947.2	1402.9	3143.8	11030.8	24543.7	26258.2	26270.2
60°	762.5	983.2	899.3	884.9	1218.2	3086.2	11896.5	25200.6	26725.8	26848.1
62.5°	729.0	990.4	803.3	829.7	1083.9	2947.1	12541.6	24474.1	26092.8	26267.8
65°	690.6	798.5	741.0	772.1	1014.3	2714.6	12337.7	23143.2	24903.4	25111.9
67.5°	645.0	676.2	673.8	712.2	990.4	2371.6	11263.4	21459.8	23622.8	23610.8
70°	589.9	606.7	613.9	654.6	944.8	2105.4	9385.8	19275.2	21913.0	22181.6
72.5°	532.4	546.7	554.0	589.9	899.3	1954.4	7285.2	16265.7	18980.3	19399.9
75°	470.0	479.6	489.2	520.3	851.3	1731.4	5189.3	12416.9	14536.8	15196.2
77.5°	405.3	405.3	417.2	448.4	717.0	1429.2	3481.9	8709.6	9848.6	10522.5
80°	328.5	330.9	326.1	359.7	527.6	978.4	1978.4	5817.5	6553.7	6683.3
82.5°	251.8	244.6	247.0	263.8	393.3	666.7	1055.1	3613.8	3683.3	3611.4
85°	158.3	158.3	153.5	172.7	251.8	347.7	575.5	2213.3	1728.9	1645.0
87.5°	64.8	52.7	60.0	69.6	119.9	141.5	225.4	455.7	175.1	160.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)