

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: P648656

Luminaire Tested: **GALN-SA9B-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29007 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

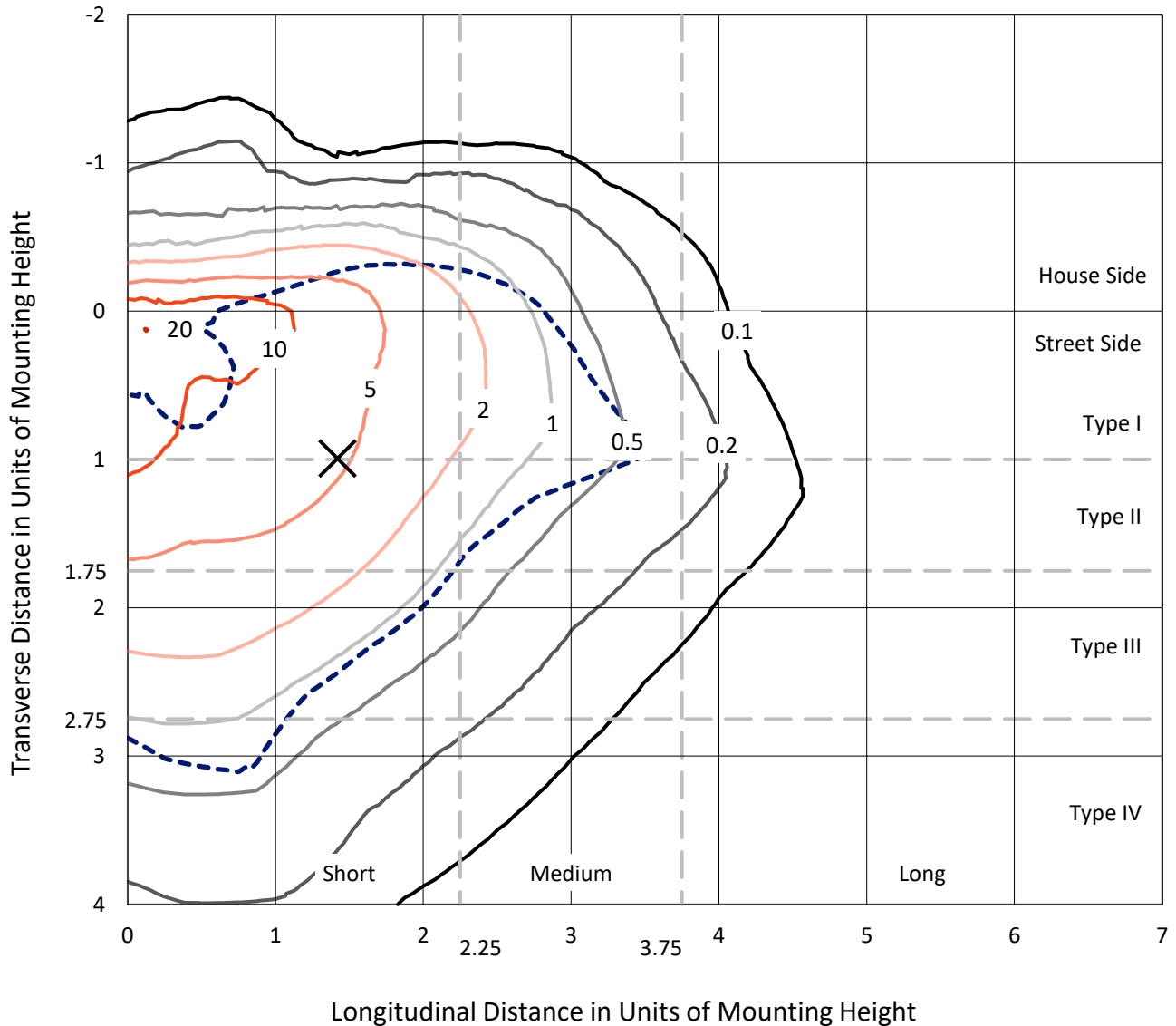




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Iso-Footcandle Lines of Horizontal Illumination

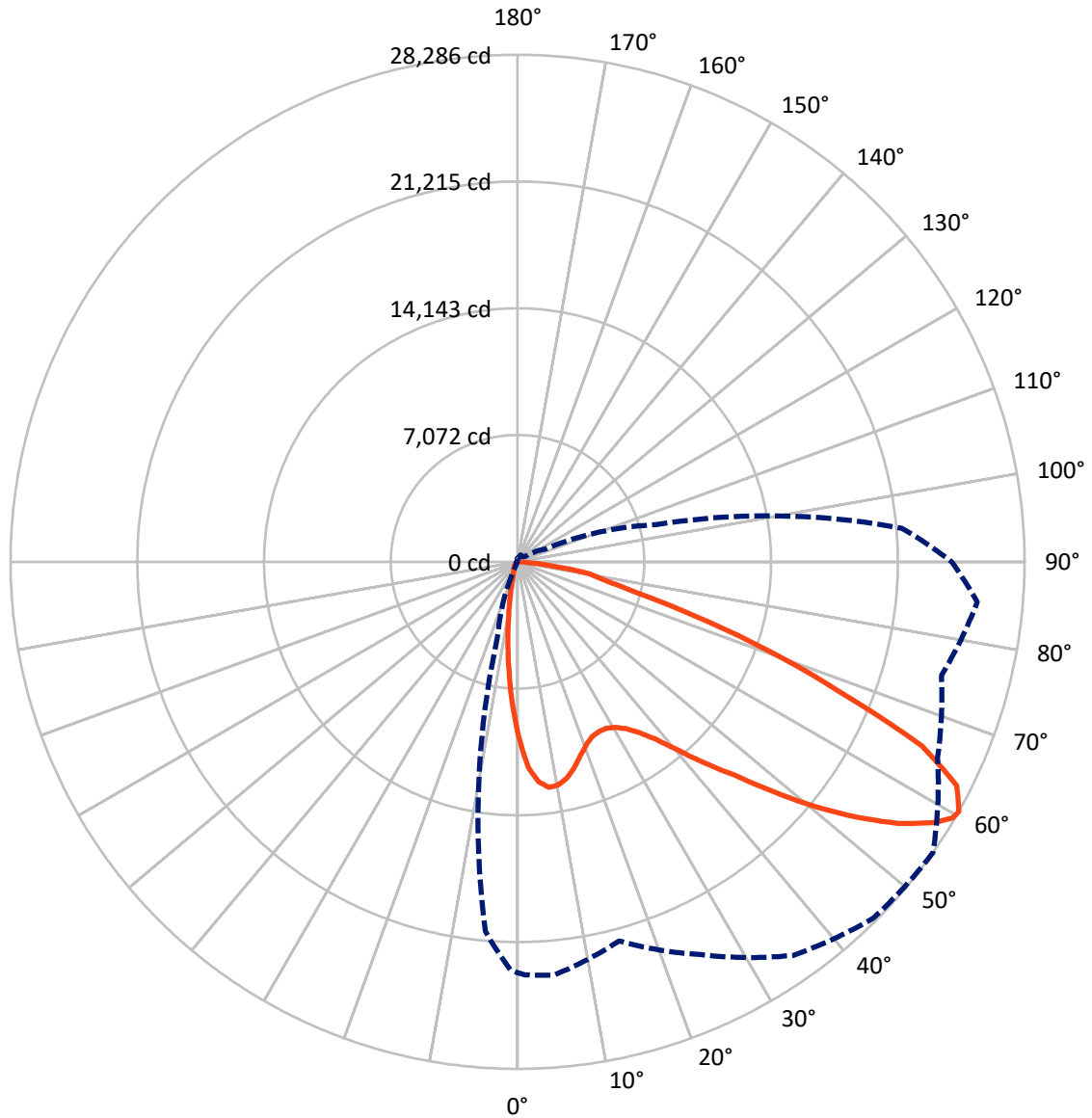
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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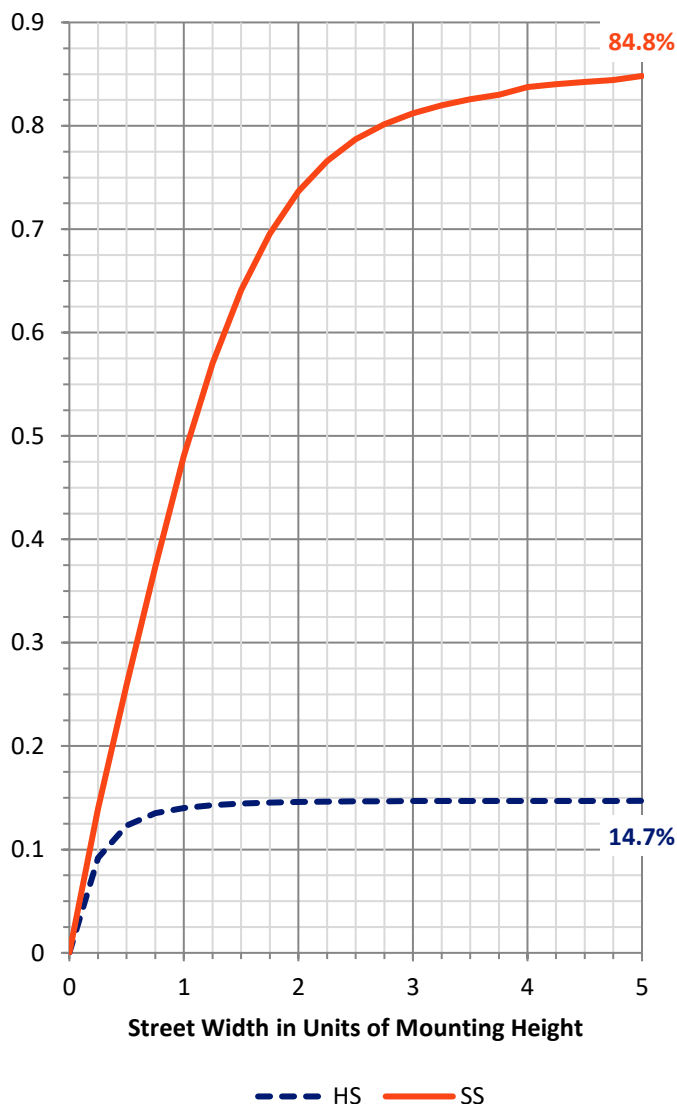
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4304.9	0.0	4304.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	24702.1	0.0	24702.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	29007.0	0.0	29007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.3	2.5
10°-20°	1432.2	4.9
20°-30°	2120.0	7.3
30°-40°	3160.1	10.9
40°-50°	4627.9	16.0
50°-60°	6681.3	23.0
60°-70°	7028.4	24.2
70°-80°	2891.2	10.0
80°-90°	338.6	1.2
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°	29007.0	100.0
0°-180°	29007.0	100.0

Coefficient of Utilization



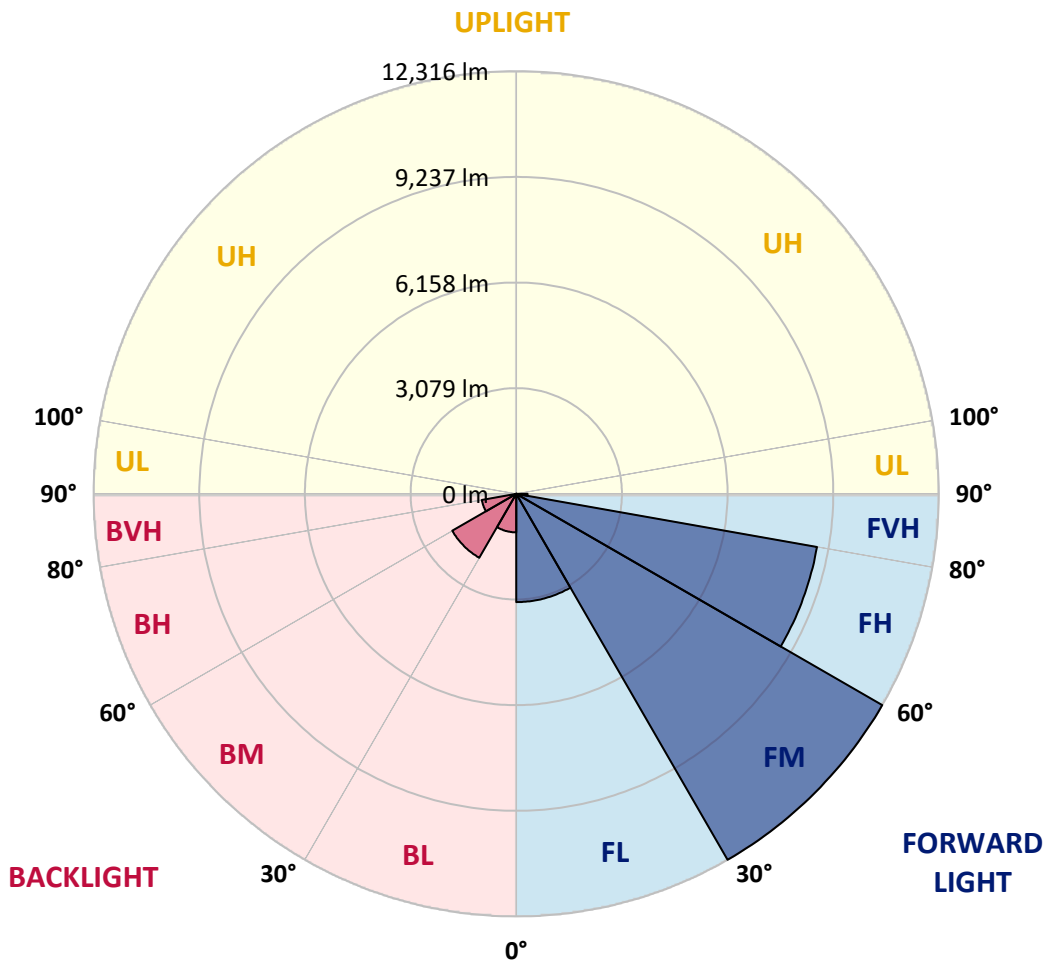
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3156.4	10.9			
FM (30°-60°)	12316.4	42.5			
FH (60°-80°)	8900.7	30.7			G4/12000
FVH (80°-90°)	328.7	1.1			G3/500
BL (0°-30°)	1123.2	3.9	B3/2500		
BM (30°-60°)	2152.8	7.4	B2/2500		
BH (60°-80°)	1018.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	10.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7
2.5°	10730.4	10712.5	10871.1	11130.0	11391.3	11527.5	11500.7	11489.5	11272.9	11114.5	10781.8
5°	10708.1	10799.6	11083.2	11784.2	12315.7	12572.4	12648.3	12329.0	11907.1	11295.3	10540.7
7.5°	10067.3	10181.2	10643.3	11739.6	12684.1	13242.2	13222.1	12710.8	11840.1	10893.4	9817.3
10°	9272.4	9406.4	9949.0	11279.7	12505.4	13242.2	13282.4	12634.9	11552.1	10337.5	9205.5
12.5°	8712.0	8870.5	9471.2	10851.0	12045.5	12771.1	12818.0	12349.2	11335.5	10123.1	8872.8
15°	8522.3	8671.9	9281.4	10634.4	11556.5	11947.2	11936.1	11887.0	11250.6	10174.5	8890.7
17.5°	8848.2	8971.1	9658.7	10732.7	11098.8	11058.6	11116.6	11353.3	11268.5	10605.3	9453.3
20°	9689.9	9815.0	10554.1	11034.0	10748.2	10493.8	10520.5	10915.7	11433.7	11415.8	10333.0
22.5°	10848.8	11060.8	11730.7	11619.0	10701.4	10143.2	10087.4	10600.9	11715.0	12349.2	11520.8
25°	12315.7	12530.0	13052.5	12552.3	10931.4	10060.6	10009.2	10504.9	12056.6	13260.1	12858.2
27.5°	13548.1	13711.1	14231.3	13461.0	11270.7	10096.3	10011.4	10518.3	12333.5	14034.8	13985.7
30°	14535.0	14655.5	14961.4	13885.3	11563.2	10252.6	10154.3	10714.8	12456.3	14412.1	14898.8
32.5°	15329.8	15533.0	15629.0	14338.5	11983.0	10547.3	10379.8	11092.1	12755.5	14878.8	15856.7
35°	16238.5	16472.9	16350.1	14771.6	12536.7	11007.3	10801.9	11703.9	13208.7	15309.7	16968.6
37.5°	17390.6	17660.7	17180.7	15227.1	13121.7	11699.4	11603.4	12563.5	13896.4	15925.9	18160.9
40°	18582.9	18739.1	17986.7	15780.8	13840.5	12706.4	12797.9	13840.5	14796.2	16665.0	19429.0
42.5°	19513.9	19661.3	18815.0	16245.2	14575.2	13900.8	14282.6	15381.2	15827.7	17421.8	20375.7
45°	20226.1	20351.2	19388.9	16752.1	15566.4	15631.2	16352.4	16968.6	16861.4	17884.0	21105.8
47.5°	20779.9	20887.0	19831.0	17296.8	17051.2	17747.8	18850.8	19112.0	17933.1	18384.1	21766.7
50°	21007.6	21038.8	19969.4	17991.1	18736.9	20444.9	21594.7	21436.3	19161.1	18940.1	22470.0
52.5°	21304.5	21297.8	20364.6	18652.1	20322.1	22856.2	24003.9	23644.4	20549.8	19772.9	23260.3
55°	22083.7	22092.7	21210.8	19589.8	21672.9	24803.2	26031.1	25769.9	22014.5	21179.5	24182.5
57.5°	23030.4	23063.9	22414.2	20686.1	22963.4	26214.3	27544.9	27444.5	23995.0	22744.7	25053.3
59°	23153.2	23220.2	22983.6	21458.6	23729.3	26647.4	28063.0	28161.2	25055.5	23776.1	25524.4
60°	22929.9	23041.6	23148.8	21896.2	24178.0	26803.7	28094.2	28286.2	25852.5	24477.2	25738.7
62.5°	21956.5	22132.8	22671.0	23242.5	24738.4	26316.9	27096.2	27498.1	26839.4	26319.2	25758.8
65°	20681.6	20773.1	21550.1	23481.4	23651.1	24044.1	24285.2	24801.0	25653.8	27029.2	24836.7
67.5°	18591.8	18861.9	19813.1	22094.9	20442.7	19978.3	19918.0	19404.5	21619.3	25336.8	22563.8
70°	15358.9	15479.4	16651.6	18114.0	15428.0	14713.6	14999.4	14807.3	16758.7	21811.3	18160.9
72.5°	11614.6	11887.0	13032.3	14438.9	10498.2	9571.6	10359.8	10288.3	12588.1	17529.0	12476.4
75°	8263.2	8439.6	9899.9	11299.8	7352.3	6229.2	6512.8	6778.5	8787.9	13840.5	7372.4
77.5°	5677.8	5829.6	6925.9	7472.9	5363.0	5137.5	4699.9	4956.6	5758.2	8211.9	4012.2
80°	3425.0	3418.3	4139.4	4273.4	3735.3	4338.1	3639.3	4085.9	3480.8	3514.3	1553.9
82.5°	2223.8	2201.5	2531.9	2759.6	2078.6	2185.8	1466.9	2114.4	2268.4	980.2	491.2
85°	995.8	1038.2	1216.9	1605.3	910.9	484.5	299.2	649.7	966.8	493.4	0.0
87.5°	102.7	80.4	214.3	390.7	125.0	13.4	44.6	22.3	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°	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7
2.5°	10627.7	10498.2	10112.0	9750.2	9439.9	9060.3	8814.8	8428.4	8194.0	8122.6	8133.8
5°	10201.2	9828.4	9093.8	8506.6	7852.5	7479.6	6912.5	6367.7	6072.9	5963.6	5914.5
7.5°	9308.1	8908.5	8022.1	7100.0	6398.9	5744.8	5322.8	4842.8	4514.5	4244.4	4197.5
10°	8645.0	8120.3	7021.9	6030.6	5476.9	4985.7	4563.6	4083.7	3697.4	3389.3	3304.4
12.5°	8247.7	7660.4	6434.7	5604.1	5079.4	4574.8	4025.6	3469.6	3074.4	2741.8	2587.7
15°	8176.2	7495.2	6269.5	5298.2	4650.7	4041.2	3311.1	2710.5	2304.1	1989.4	1893.4
17.5°	8607.1	7792.2	6244.9	4978.9	4090.3	3226.3	2467.2	1969.2	1511.6	1335.2	1266.0
20°	9375.2	8316.9	6242.6	4608.3	3514.3	2485.0	1732.6	1283.8	1098.5	1013.7	973.4
22.5°	10422.3	9031.3	6361.0	4289.0	2915.9	1833.1	1236.9	1022.6	915.4	846.2	830.6
25°	11701.6	10089.7	6651.3	4072.5	2458.2	1437.9	1020.3	875.2	785.9	754.7	741.3
27.5°	12838.1	11103.3	6970.5	3849.2	2130.0	1272.6	946.6	801.6	730.1	705.6	685.4
30°	13818.2	12023.1	7124.6	3554.5	1866.5	1165.5	960.0	857.4	763.6	689.9	656.4
32.5°	14635.4	12728.7	7225.1	3286.6	1643.3	953.4	759.1	663.1	620.7	593.9	571.6
35°	15658.0	13492.3	7164.8	3134.7	1529.4	868.5	692.2	571.6	500.1	446.5	424.2
37.5°	16729.7	14255.8	7059.8	3009.7	1478.1	806.0	658.7	542.5	464.4	408.6	379.6
40°	17839.3	14963.6	6937.1	2893.6	1431.2	765.9	638.5	518.0	439.8	379.6	348.3
42.5°	18855.3	15653.5	6887.9	2817.7	1355.3	772.5	623.0	506.8	415.3	352.7	326.0
45°	19676.9	16307.7	6954.9	2777.5	1272.6	761.4	627.4	493.4	395.2	334.9	308.1
47.5°	20554.4	17232.0	7171.5	2737.3	1192.3	707.8	660.9	491.2	386.3	323.8	294.7
50°	21574.7	18415.4	7667.1	2639.1	1094.0	649.7	703.3	489.0	375.1	310.4	281.3
52.5°	22934.4	19759.5	8178.4	2467.2	951.1	593.9	672.0	482.2	352.7	294.7	265.7
55°	24155.7	21175.1	8611.6	2264.0	770.3	513.5	605.1	453.3	314.8	267.9	241.2
57.5°	24660.3	21974.3	8598.2	1982.6	616.2	451.0	497.9	415.3	274.6	236.7	214.3
59°	24475.0	21873.9	8310.1	1775.0	562.7	417.5	413.0	410.8	256.7	214.3	196.5
60°	24213.7	21507.7	7999.8	1672.3	529.2	395.2	379.6	406.4	241.2	200.9	183.1
62.5°	23213.5	19989.4	6970.5	1498.1	484.5	334.9	303.6	343.8	214.3	174.1	158.6
65°	21764.5	17656.3	5901.1	1449.0	471.1	276.9	252.3	245.6	183.1	147.4	134.0
67.5°	18937.9	14941.3	4780.2	1415.5	475.6	232.2	221.0	185.3	151.8	122.8	113.8
70°	15162.3	11650.3	3913.9	1377.6	480.1	189.8	185.3	147.4	122.8	102.7	93.8
72.5°	9212.2	6905.7	3081.1	1196.7	466.7	151.8	165.2	111.7	89.3	73.7	69.2
75°	5695.6	4726.7	1911.2	931.1	308.1	111.7	116.1	69.2	60.3	46.9	46.9
77.5°	3300.0	2985.1	683.2	334.9	136.2	66.9	51.4	35.7	33.5	20.1	20.1
80°	1368.7	1096.3	236.7	113.8	73.7	31.2	11.2	2.3	0.0	0.0	0.0
82.5°	399.6	355.0	64.8	51.4	22.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7
2.5°	7944.0	7870.3	7836.8	7950.7	7845.7	7979.7	7877.0	7921.7	8053.4	8111.4	8261.0
5°	5945.7	5869.8	5834.1	6006.0	5997.1	6081.9	6072.9	6151.1	6218.1	6068.5	6222.6
7.5°	4141.7	4090.3	4175.2	4309.2	4452.1	4405.2	4405.2	4300.2	4335.9	4313.6	4306.9
10°	3150.3	2974.0	2929.3	2924.8	2978.5	2989.6	2929.3	2784.2	2837.7	2853.4	2947.2
12.5°	2478.3	2342.1	2134.5	2040.7	2016.1	2036.3	1837.5	1710.2	1770.5	1734.8	1826.3
15°	1777.3	1665.6	1542.8	1437.9	1408.9	1368.7	1152.1	1000.3	982.4	989.1	1004.7
17.5°	1268.1	1192.3	1192.3	1080.6	1020.3	899.7	790.4	723.4	716.7	723.4	734.5
20°	935.5	895.3	890.8	861.8	794.8	714.5	638.5	625.1	620.7	631.9	636.3
22.5°	806.0	763.6	727.9	725.6	663.1	596.1	560.4	542.5	544.8	549.3	560.4
25°	721.1	676.5	638.5	616.2	571.6	524.7	491.2	482.2	482.2	489.0	491.2
27.5°	660.9	605.1	571.6	540.3	500.1	459.9	430.9	424.2	419.8	424.2	435.3
30°	618.5	562.7	520.2	473.3	442.1	404.1	379.6	370.6	368.4	370.6	379.6
32.5°	529.2	495.6	462.2	419.8	381.8	357.2	330.4	314.8	314.8	319.3	328.2
35°	399.6	381.8	379.6	368.4	337.2	310.4	279.1	263.5	263.5	272.4	276.9
37.5°	352.7	319.3	314.8	310.4	296.9	261.2	232.2	218.8	216.6	223.2	232.2
40°	321.5	283.5	263.5	259.0	261.2	221.0	189.8	176.4	176.4	178.6	187.5
42.5°	296.9	252.3	216.6	212.1	221.0	185.3	154.1	140.6	140.6	140.6	151.8
45°	276.9	225.5	183.1	160.7	174.1	151.8	125.0	111.7	107.2	111.7	116.1
47.5°	263.5	205.4	160.7	129.5	129.5	120.6	100.5	84.9	80.4	82.6	89.3
50°	252.3	187.5	136.2	104.9	93.8	96.0	76.0	64.8	60.3	60.3	66.9
52.5°	234.4	169.7	118.3	89.3	71.4	64.8	55.8	46.9	44.6	46.9	51.4
55°	212.1	154.1	102.7	73.7	55.8	44.6	40.2	33.5	31.2	33.5	40.2
57.5°	187.5	129.5	82.6	58.0	38.0	29.0	26.8	22.3	17.9	20.1	24.6
59°	171.9	116.1	71.4	46.9	29.0	20.1	20.1	15.7	11.2	13.4	20.1
60°	165.2	107.2	60.3	40.2	24.6	15.7	15.7	11.2	6.7	8.9	15.7
62.5°	140.6	89.3	46.9	24.6	11.2	2.3	6.7	2.3	0.0	2.3	6.7
65°	118.3	71.4	31.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	98.3	53.6	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	78.1	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	53.6	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	33.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P648656
 CATALOG NUMBER: GALN-SA9B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7	9821.7
2.5°	8270.0	8589.3	8785.7	9156.3	9535.9	9828.4	10194.6	10522.7	10659.0	10730.4
5°	6378.9	6823.1	7200.5	7765.4	8290.1	8928.6	9576.1	10339.7	10632.2	10708.1
7.5°	4476.6	4929.8	5325.0	5979.2	6727.1	7582.3	8551.3	9520.3	9946.8	10067.3
10°	3232.9	3717.4	4199.7	4853.9	5552.7	6479.3	7488.5	8687.5	9178.6	9272.4
12.5°	2040.7	2561.0	3344.6	4152.9	4891.9	5637.6	6693.6	7997.6	8540.1	8712.0
15°	1183.3	1571.8	2163.5	3217.3	4157.3	5144.2	6296.3	7738.5	8345.8	8522.3
17.5°	792.6	926.6	1332.9	2138.9	3380.3	4688.7	6195.8	7950.7	8622.7	8848.2
20°	667.6	727.9	870.8	1303.9	2603.3	4282.3	6222.6	8526.7	9408.6	9689.9
22.5°	587.2	643.0	734.5	937.7	1817.4	3777.7	6349.8	9350.6	10489.3	10848.8
25°	518.0	573.8	654.2	777.0	1221.3	3195.0	6629.0	10556.2	11920.5	12315.7
27.5°	459.9	511.3	580.5	685.4	940.0	2545.3	6876.8	11730.7	13226.6	13548.1
30°	406.4	448.7	515.8	596.1	781.4	1962.6	7001.8	12757.7	14177.7	14535.0
32.5°	352.7	393.0	457.7	522.4	643.0	1495.9	6914.7	13512.4	15102.0	15329.8
35°	301.5	343.8	397.5	457.7	555.9	1207.9	6479.3	14360.8	16059.9	16238.5
37.5°	259.0	294.7	350.5	397.5	502.4	966.8	5952.4	15124.3	17133.8	17390.6
40°	218.8	254.6	310.4	352.7	462.2	761.4	5476.9	15972.8	18265.8	18582.9
42.5°	178.6	221.0	270.1	339.4	397.5	580.5	4900.8	16660.5	19116.5	19513.9
45°	142.9	189.8	243.4	337.2	346.1	442.1	4344.9	17196.3	19868.9	20226.1
47.5°	113.8	160.7	234.4	314.8	283.5	350.5	4027.8	17756.7	20494.1	20779.9
50°	91.5	134.0	245.6	276.9	236.7	296.9	4018.9	18381.9	20817.8	21007.6
52.5°	73.7	109.4	207.7	212.1	200.9	261.2	4260.0	19085.2	21148.2	21304.5
55°	62.5	91.5	136.2	156.3	180.9	236.7	4440.9	20168.0	21936.4	22083.7
57.5°	49.1	78.1	104.9	125.0	160.7	216.6	4465.4	21003.1	22934.4	23030.4
59°	42.4	66.9	93.8	111.7	147.4	203.2	4364.9	21054.5	22999.1	23153.2
60°	35.7	60.3	82.6	104.9	136.2	192.0	4255.5	20681.6	22758.1	22929.9
62.5°	26.8	46.9	60.3	84.9	111.7	165.2	3737.6	19380.0	21835.9	21956.5
65°	17.9	33.5	44.6	62.5	87.1	142.9	3045.4	17692.0	20411.5	20681.6
67.5°	11.2	24.6	35.7	46.9	71.4	120.6	2170.2	15171.3	18417.6	18591.8
70°	6.7	15.7	26.8	38.0	55.8	96.0	1288.3	11991.9	15323.1	15358.9
72.5°	4.5	11.2	17.9	26.8	44.6	87.1	625.1	7816.7	11188.1	11614.6
75°	2.3	6.7	11.2	20.1	35.7	71.4	299.2	5222.3	8140.5	8263.2
77.5°	0.0	2.3	6.7	13.4	26.8	55.8	174.1	3429.5	5550.5	5677.8
80°	0.0	0.0	4.5	11.2	20.1	35.7	104.9	2022.8	3362.4	3425.0
82.5°	0.0	0.0	2.3	8.9	13.4	26.8	53.6	888.6	2201.5	2223.8
85°	0.0	0.0	2.3	8.9	11.2	17.9	20.1	120.6	977.9	995.8
87.5°	0.0	0.0	2.3	11.2	11.2	11.2	11.2	6.7	82.6	102.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)