

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: P457309

Luminaire Tested: **GALN-SA8C-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457309
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-SA8C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 29971 lumens
Efficiency: N/A
Efficacy: 69.9 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

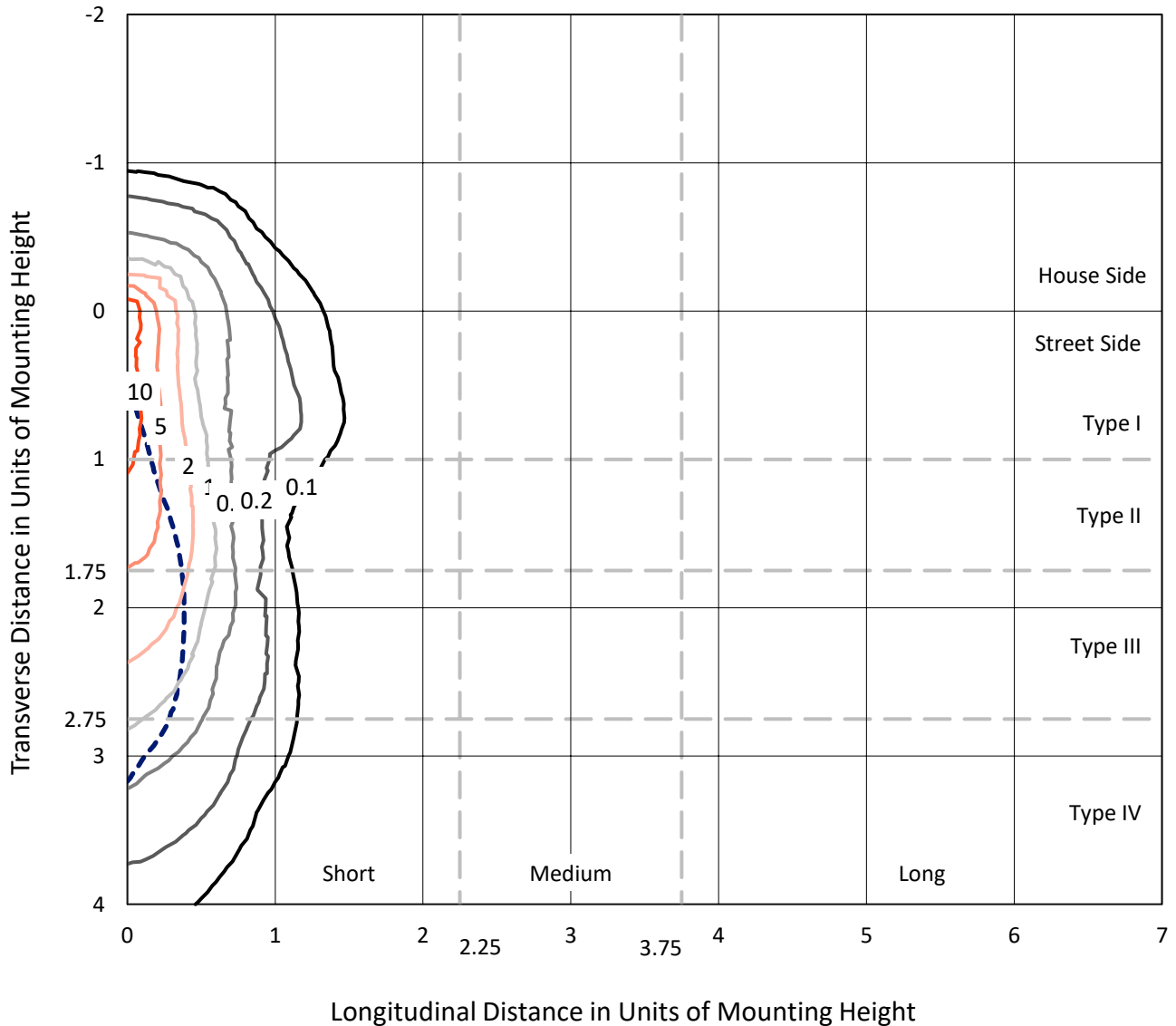
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

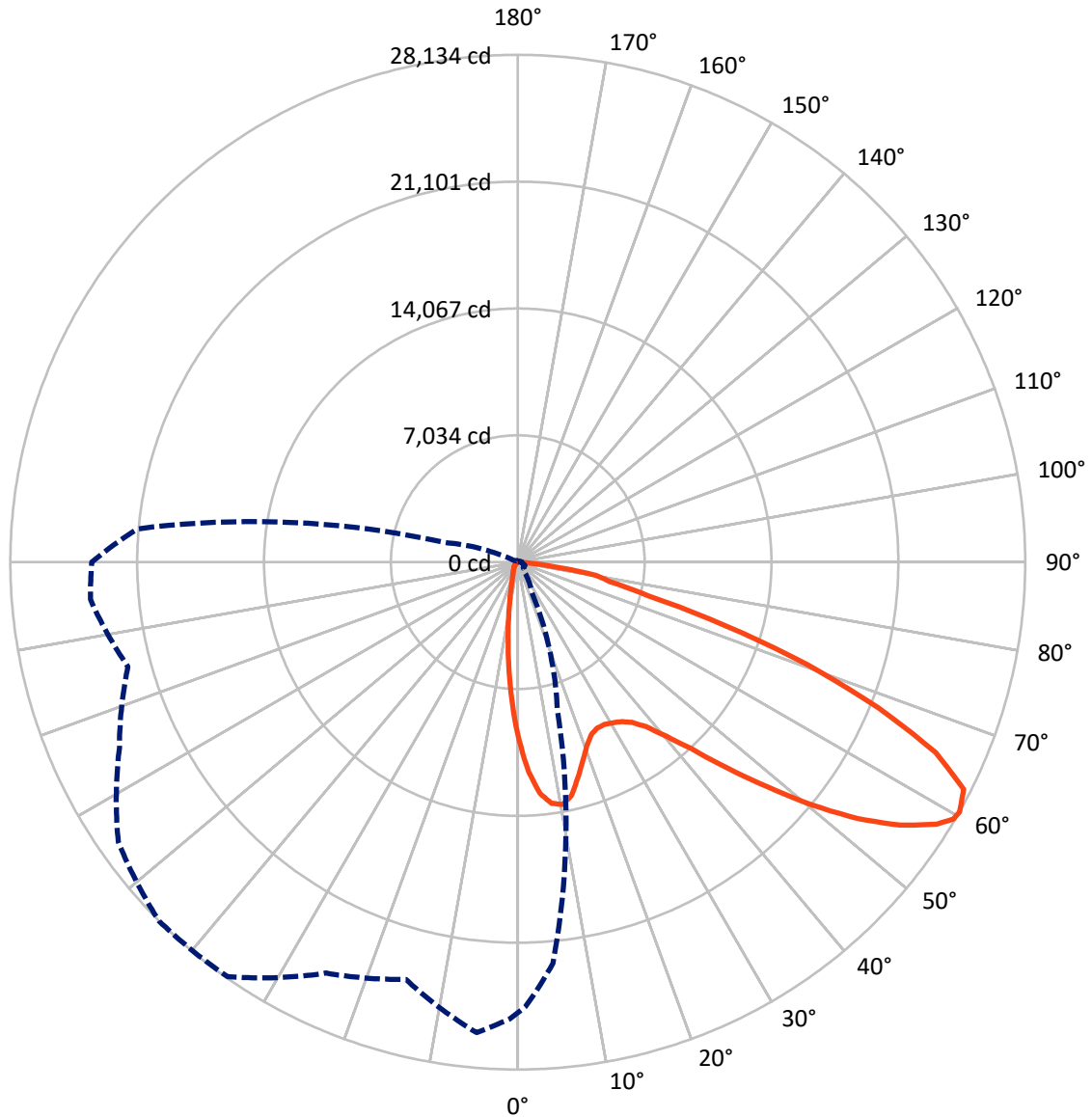
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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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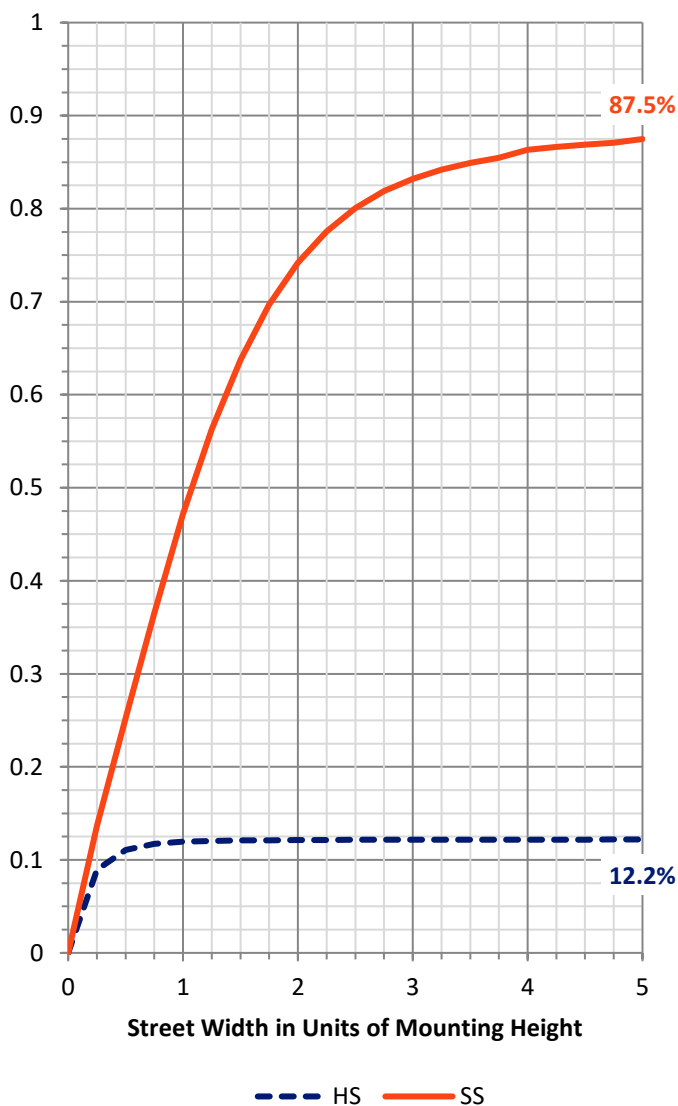
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3696.6	0.0	3696.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	26274.4	0.0	26274.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	29971.0	0.0	29971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.8	2.5
10°-20°	1463.2	4.9
20°-30°	2145.5	7.2
30°-40°	3190.7	10.6
40°-50°	4643.5	15.5
50°-60°	6696.2	22.3
60°-70°	7365.1	24.6
70°-80°	3299.0	11.0
80°-90°	431.1	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°	29971.0	100.0
0°-180°	29971.0	100.0

Coefficient of Utilization



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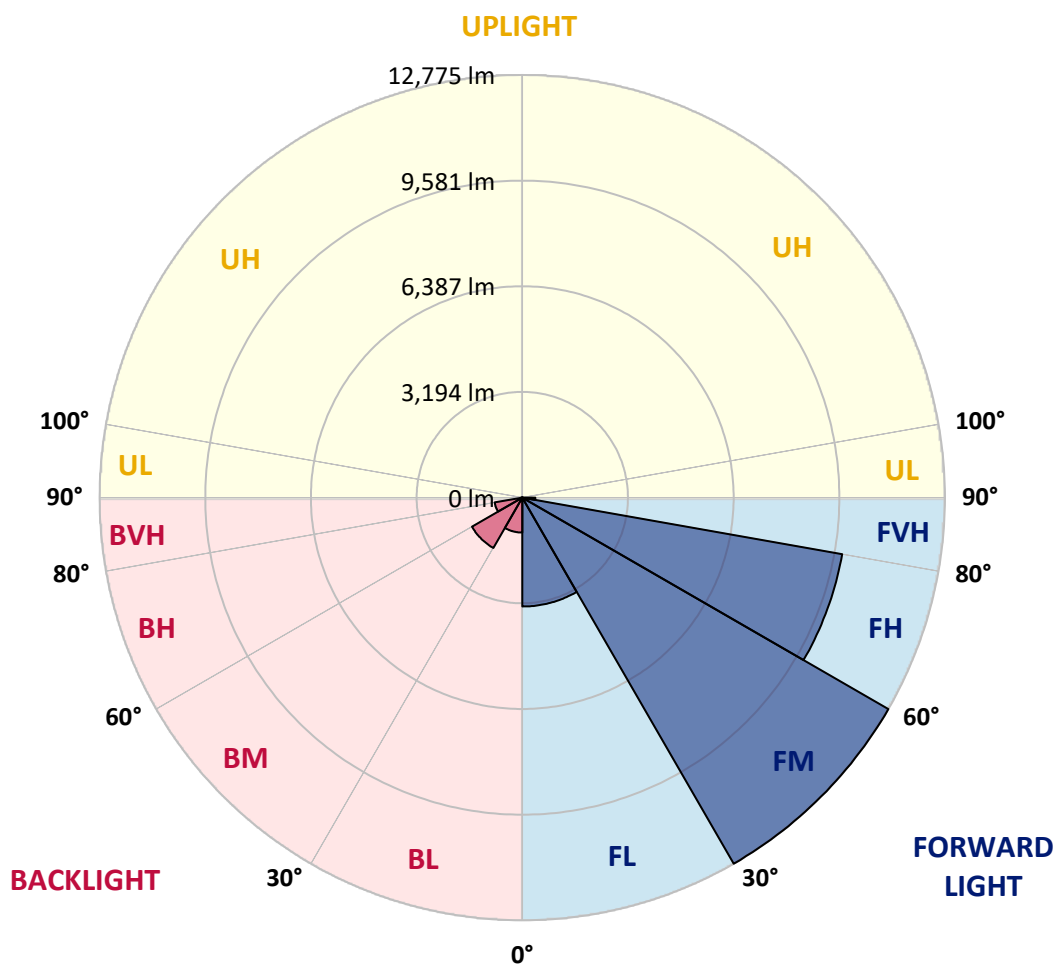
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3289.2	11.0			
FM	(30°-60°)	12774.6	42.6			
FH	(60°-80°)	9816.4	32.8			G4/12000
FVH	(80°-90°)	394.2	1.3			G3/500
BL	(0°-30°)	1056.2	3.5	B3/2500		
BM	(30°-60°)	1755.8	5.9	B2/2500		
BH	(60°-80°)	847.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	36.8	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°	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8
2.5°	10890.0	10842.2	10732.8	10400.2	10110.9	9732.7	9350.0	9049.2	8864.7	8525.2	8370.3
5°	10550.6	10573.4	10256.7	9573.2	8812.3	8292.8	7725.6	7274.5	6777.8	6463.4	6133.1
7.5°	9664.3	9618.8	9274.8	8322.5	7397.5	6645.7	5928.0	5344.8	4978.0	4684.1	4438.0
10°	8905.7	8871.5	8431.8	7206.1	6212.8	5650.1	5164.8	4654.5	4260.3	3829.7	3485.7
12.5°	8429.5	8352.1	7846.3	6565.9	5757.1	5233.1	4704.6	4173.8	3629.3	3194.1	2777.2
15°	8270.1	8158.4	7595.7	6344.9	5465.5	4800.3	4137.3	3526.7	2900.2	2419.5	2105.1
17.5°	8559.4	8374.9	7775.7	6306.2	5117.0	4235.3	3419.7	2624.5	1973.0	1606.2	1412.5
20°	9222.4	9010.5	8231.3	6267.5	4729.7	3601.9	2599.5	1854.5	1364.7	1164.2	1057.1
22.5°	10206.6	9915.0	8905.7	6329.0	4372.0	2984.5	1877.3	1310.0	1084.4	959.1	884.0
25°	11389.0	11145.2	9760.0	6547.7	4089.5	2499.2	1451.2	1070.8	913.6	836.1	779.2
27.5°	12685.3	12295.7	10865.0	6809.7	3832.0	2123.3	1273.5	956.9	813.3	742.7	713.1
30°	13608.0	13305.0	11790.0	6992.0	3510.8	1840.8	1164.2	943.2	815.6	731.3	676.6
32.5°	14519.3	14132.0	12564.6	7076.3	3276.1	1644.9	1007.0	822.4	715.4	672.1	617.4
35°	15494.4	15088.9	13336.9	7030.7	3100.7	1515.0	913.6	733.6	612.9	539.9	485.3
37.5°	16480.9	16052.6	14104.7	6866.7	2991.3	1462.6	840.7	697.1	578.7	503.5	444.3
40°	17651.9	17080.1	14824.6	6732.2	2877.4	1435.3	792.8	674.4	553.6	473.9	414.6
42.5°	18608.8	18064.3	15505.8	6661.6	2800.0	1371.5	792.8	656.1	537.7	448.8	387.3
45°	19515.5	18950.5	16241.7	6718.6	2768.1	1291.8	801.9	653.9	526.3	430.6	369.1
47.5°	20274.2	19784.3	16998.0	6932.7	2727.1	1205.2	754.1	685.8	519.4	414.6	350.9
50°	21169.5	20695.6	17998.2	7365.6	2654.2	1118.6	694.9	738.2	517.2	401.0	334.9
52.5°	22431.7	21919.1	19378.8	7857.7	2538.0	986.5	640.2	731.3	508.1	378.2	319.0
55°	23974.1	23559.4	20978.2	8447.8	2378.5	838.4	553.6	649.3	480.7	339.5	291.6
57.5°	24962.8	24609.7	22176.5	8702.9	2134.7	685.8	487.5	544.5	439.7	303.0	259.7
59°	25079.0	24760.1	22427.1	8618.6	1975.2	626.5	455.7	467.0	428.3	282.5	241.5
60°	24981.0	24650.7	22326.9	8454.6	1827.2	585.5	428.3	414.6	430.6	271.1	227.8
62.5°	24352.2	23787.2	21354.1	7623.0	1597.1	537.7	380.5	339.5	380.5	243.8	202.8
65°	23137.9	22290.4	19428.9	6452.0	1505.9	510.3	323.5	284.8	289.3	214.2	175.4
67.5°	21016.9	19948.4	16865.9	5242.3	1467.2	512.6	273.4	255.2	223.3	182.3	154.9
70°	17663.3	16597.1	13532.8	4312.7	1449.0	512.6	232.4	218.7	186.8	152.6	134.4
72.5°	12516.7	11368.5	9129.0	3387.8	1305.4	510.3	198.2	198.2	152.6	127.6	109.4
75°	7071.7	7080.8	5738.9	2396.7	1084.4	421.5	159.5	157.2	111.6	98.0	82.0
77.5°	4121.4	4048.5	3868.5	1029.8	503.5	191.4	111.6	95.7	77.5	70.6	59.2
80°	2118.8	1742.9	1697.3	373.6	180.0	120.7	77.5	54.7	50.1	45.6	41.0
82.5°	626.5	628.8	560.5	150.4	100.2	79.7	38.7	29.6	27.3	25.1	25.1
85°	43.3	27.3	31.9	45.6	61.5	31.9	2.3	6.8	6.8	9.1	11.4
87.5°	4.6	2.3	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°	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8
2.5°	8199.4	8299.7	8112.9	8117.4	7962.5	8012.6	7830.4	7889.6	7782.5	7864.5	8106.0
5°	6169.5	6192.3	6041.9	5994.1	6016.9	6110.3	6146.7	5980.4	6051.0	5912.1	5903.0
7.5°	4346.9	4374.2	4287.7	4276.3	4440.3	4401.6	4472.2	4301.3	4139.6	4210.2	4080.4
10°	3376.4	3262.5	3084.8	3034.6	3002.7	3023.2	3023.2	2868.3	2845.5	2784.0	2877.4
12.5°	2665.6	2526.6	2358.0	2130.2	2073.2	2068.7	1984.4	1847.7	1804.4	1752.0	1829.4
15°	1936.5	1879.6	1738.3	1610.7	1480.9	1455.8	1319.1	1207.5	1059.4	1038.9	1032.0
17.5°	1362.4	1278.1	1275.8	1202.9	1127.7	1077.6	950.0	822.4	765.5	758.7	758.7
20°	1020.7	991.0	943.2	934.1	911.3	854.3	740.4	672.1	644.7	647.0	656.1
22.5°	858.9	838.4	795.1	774.6	765.5	715.4	631.1	585.5	571.8	571.8	574.1
25°	767.8	749.5	701.7	669.8	658.4	622.0	555.9	521.7	510.3	510.3	510.3
27.5°	699.4	676.6	626.5	599.2	578.7	537.7	496.7	462.5	451.1	451.1	453.4
30°	651.6	626.5	581.0	544.5	512.6	476.2	442.0	412.4	398.7	396.4	398.7
32.5°	587.8	565.0	519.4	496.7	460.2	416.9	389.6	362.2	348.6	350.9	348.6
35°	457.9	451.1	419.2	426.0	405.5	369.1	344.0	314.4	298.5	296.2	300.7
37.5°	416.9	389.6	353.1	355.4	348.6	334.9	293.9	262.0	250.6	250.6	252.9
40°	385.0	357.7	316.7	296.2	298.5	298.5	255.2	221.0	209.6	207.3	211.9
42.5°	357.7	330.3	284.8	250.6	241.5	252.9	216.4	182.3	170.9	166.3	170.9
45°	339.5	309.8	257.4	218.7	191.4	205.0	177.7	150.4	136.7	136.7	134.4
47.5°	321.2	293.9	236.9	189.1	159.5	152.6	145.8	120.7	107.1	104.8	107.1
50°	305.3	277.9	214.2	164.0	134.4	118.5	118.5	95.7	86.6	82.0	84.3
52.5°	289.3	259.7	193.7	145.8	116.2	95.7	84.3	77.5	70.6	68.3	70.6
55°	266.6	236.9	173.1	125.3	100.2	79.7	66.1	63.8	59.2	54.7	59.2
57.5°	239.2	211.9	152.6	107.1	79.7	61.5	54.7	52.4	47.8	45.6	45.6
59°	223.3	198.2	141.3	93.4	70.6	54.7	50.1	47.8	43.3	38.7	41.0
60°	214.2	193.7	134.4	86.6	63.8	50.1	45.6	43.3	38.7	36.5	38.7
62.5°	189.1	173.1	118.5	70.6	50.1	36.5	31.9	34.2	31.9	29.6	31.9
65°	166.3	152.6	100.2	54.7	38.7	25.1	22.8	29.6	27.3	25.1	27.3
67.5°	148.1	132.1	84.3	41.0	27.3	13.7	15.9	25.1	25.1	22.8	25.1
70°	127.6	113.9	68.3	29.6	13.7	6.8	11.4	18.2	22.8	20.5	22.8
72.5°	104.8	88.9	52.4	20.5	6.8	0.0	6.8	15.9	22.8	20.5	22.8
75°	82.0	66.1	38.7	11.4	0.0	0.0	2.3	13.7	22.8	20.5	22.8
77.5°	59.2	47.8	22.8	2.3	0.0	0.0	2.3	13.7	22.8	20.5	22.8
80°	38.7	34.2	9.1	0.0	0.0	0.0	2.3	13.7	22.8	22.8	25.1
82.5°	25.1	18.2	0.0	0.0	0.0	0.0	4.6	18.2	25.1	27.3	27.3
85°	11.4	0.0	0.0	0.0	0.0	0.0	9.1	22.8	29.6	29.6	29.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.6	15.9	27.3	34.2	34.2	34.2
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°	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8
2.5°	8147.0	8290.6	8493.3	8805.4	9058.3	9457.0	9762.3	10179.2	10600.7	10728.3	10926.5
5°	5996.4	6180.9	6641.1	7060.3	7324.6	8167.5	8700.6	9541.3	10295.4	10657.7	11051.8
7.5°	4164.6	4383.4	4734.2	5319.7	5875.6	6561.4	7422.5	8384.0	9488.9	10006.1	10562.0
10°	2923.0	3196.4	3690.8	4171.5	4870.9	5522.5	6372.3	7433.9	8652.8	9263.4	9960.5
12.5°	1845.4	2089.2	2743.0	3283.0	4155.5	4911.9	5695.6	6657.1	8069.6	8696.1	9427.4
15°	1054.8	1259.9	1565.2	2257.7	3226.0	4226.2	5203.5	6319.9	7771.1	8543.4	9334.0
17.5°	786.0	840.7	977.4	1369.2	2250.9	3419.7	4750.2	6217.4	7973.9	8880.6	9782.8
20°	660.7	697.1	760.9	915.9	1435.3	2633.7	4308.2	6235.6	8630.0	9769.1	10625.8
22.5°	592.3	615.1	667.5	767.8	979.6	1918.3	3791.0	6342.7	9425.1	10860.4	11849.2
25°	519.4	549.1	594.6	681.2	815.6	1330.5	3280.7	6581.9	10539.2	12245.6	13175.1
27.5°	462.5	489.8	535.4	615.1	715.4	1016.1	2686.1	6786.9	11714.8	13639.9	14400.8
30°	405.5	432.9	478.4	542.2	633.4	822.4	2045.9	6907.7	12856.2	14685.6	15271.1
32.5°	357.7	380.5	423.8	480.7	555.9	697.1	1613.0	6782.4	13728.8	15635.7	16027.5
35°	309.8	337.2	373.6	426.0	492.1	594.6	1341.9	6349.5	14478.3	16613.0	16754.3
37.5°	259.7	291.6	330.3	378.2	430.6	546.8	1077.6	5871.1	15280.2	17831.9	17599.5
40°	218.7	248.3	284.8	337.2	385.0	501.2	829.3	5360.7	16146.0	18975.6	18522.2
42.5°	177.7	209.6	252.9	300.7	380.5	437.4	642.5	4832.2	16922.9	19971.2	19356.0
45°	141.3	168.6	214.2	275.7	378.2	375.9	496.7	4310.5	17508.4	20682.0	19978.0
47.5°	111.6	134.4	180.0	268.8	348.6	319.0	398.7	3986.9	18123.5	21322.2	20454.2
50°	88.9	111.6	154.9	280.2	305.3	273.4	334.9	4039.3	18718.1	21648.0	20650.1
52.5°	75.2	98.0	134.4	221.0	234.7	239.2	293.9	4280.8	19485.9	21996.5	21039.7
55°	66.1	86.6	113.9	154.9	182.3	214.2	268.8	4456.3	20513.4	22743.8	21898.6
57.5°	52.4	75.2	102.5	132.1	150.4	186.8	248.3	4469.9	21442.9	23702.9	23040.0
59°	47.8	68.3	95.7	125.3	134.4	168.6	234.7	4353.7	21477.1	23846.5	23564.0
60°	43.3	66.1	91.1	116.2	127.6	159.5	223.3	4219.3	21167.2	23618.6	23780.4
62.5°	36.5	57.0	79.7	93.4	109.4	132.1	193.7	3731.8	19665.9	22586.6	23379.4
65°	31.9	50.1	68.3	77.5	91.1	113.9	170.9	2986.8	18007.3	21187.8	22231.2
67.5°	29.6	45.6	59.2	66.1	79.7	104.8	152.6	2109.7	15858.9	19413.0	20506.6
70°	27.3	43.3	52.4	61.5	70.6	88.9	129.9	1230.3	12216.0	16300.9	17456.0
72.5°	27.3	41.0	45.6	52.4	61.5	79.7	120.7	665.2	8352.1	12434.7	13927.0
75°	27.3	38.7	41.0	45.6	54.7	72.9	107.1	348.6	5399.5	8639.1	10662.2
77.5°	27.3	36.5	41.0	43.3	52.4	63.8	93.4	218.7	3597.4	6051.0	7206.1
80°	29.6	36.5	38.7	43.3	50.1	59.2	77.5	145.8	2114.2	3640.6	4385.6
82.5°	31.9	36.5	41.0	45.6	52.4	57.0	68.3	91.1	975.1	2408.1	2724.8
85°	34.2	38.7	43.3	47.8	54.7	57.0	63.8	66.1	159.5	1086.7	1469.5
87.5°	36.5	41.0	45.6	50.1	59.2	59.2	59.2	59.2	54.7	116.2	296.2
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: P457309

CATALOG NUMBER: GALN-SA8C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8	9905.8
2.5°	11177.1	11434.6	11614.5	11660.1	11530.2	11471.0	11307.0	11051.8	10896.9	10890.0
5°	11778.6	12382.3	12801.5	12872.1	12621.5	12197.8	11694.3	11045.0	10664.5	10550.6
7.5°	11676.0	12733.2	13407.5	13505.5	13084.0	12275.2	11300.1	10254.4	9839.8	9664.3
10°	11254.6	12544.1	13507.8	13662.7	13100.0	11960.8	10721.5	9555.0	9040.1	8905.7
12.5°	10894.6	12197.8	13054.4	13268.5	12842.5	11705.7	10375.2	9106.2	8554.8	8429.5
15°	10737.4	11787.7	12311.7	12421.0	12350.4	11546.2	10338.7	9037.8	8406.8	8270.1
17.5°	10894.6	11439.1	11505.2	11616.8	11774.0	11530.2	10689.6	9409.2	8728.0	8559.4
20°	11307.0	11136.1	10862.7	10910.6	11270.5	11596.3	11313.8	10231.6	9402.3	9222.4
22.5°	12008.7	11060.9	10441.2	10400.2	10855.9	11817.3	12229.7	11345.7	10384.3	10206.6
25°	12869.9	11250.0	10286.3	10197.5	10694.1	12140.8	13225.3	12710.4	11660.1	11389.0
27.5°	13808.5	11641.9	10286.3	10199.7	10680.4	12427.9	14077.3	13917.8	12981.5	12685.3
30°	14323.4	11965.4	10434.4	10336.4	10849.0	12594.2	14533.0	14990.9	13974.8	13608.0
32.5°	14783.6	12414.2	10723.7	10539.2	11202.2	12840.2	14940.8	15902.2	14765.4	14519.3
35°	15207.3	12894.9	11122.4	10908.3	11666.9	13177.4	15391.9	16859.1	15865.8	15494.4
37.5°	15674.4	13453.1	11744.4	11562.1	12443.8	13833.6	15927.3	18116.7	16947.9	16480.9
40°	16182.4	14100.1	12767.3	12689.9	13678.6	14576.3	16603.9	19458.6	18182.7	17651.9
42.5°	16699.6	14845.1	14020.4	14148.0	15077.5	15617.4	17298.8	20490.6	19194.3	18608.8
45°	17168.9	15797.4	15649.3	16280.4	16708.7	16633.5	17813.7	21217.4	20076.0	19515.5
47.5°	17761.3	17184.9	17620.0	18592.8	18604.2	17738.5	18203.2	21812.0	20834.6	20274.2
50°	18424.2	18822.9	20164.8	21155.9	20889.3	18825.2	18658.9	22516.0	21618.3	21169.5
52.5°	19192.0	20656.9	22516.0	23616.4	22994.4	20009.9	19417.5	23276.9	22862.3	22431.7
55°	20085.1	21907.7	24860.3	25737.4	25110.9	21481.6	20570.3	24309.0	24268.0	23974.1
57.5°	21094.3	23229.1	26218.1	27405.1	26846.9	23208.6	22181.1	25281.8	25126.9	24962.8
59°	21891.7	23908.0	26817.3	28047.6	27710.4	24418.3	23263.2	25887.8	25325.1	25079.0
60°	22374.7	24368.2	27038.3	28134.1	28056.7	25138.2	23949.0	26184.0	25322.8	24981.0
62.5°	23807.7	25172.4	26954.0	27749.1	28052.1	26518.9	25960.7	26509.8	24853.5	24352.2
65°	24318.1	24905.9	25557.4	25459.5	25719.2	26448.2	27245.6	26152.1	23851.0	23137.9
67.5°	23324.8	21982.9	22213.0	21559.1	21431.5	23513.8	26723.9	24402.4	21889.5	21016.9
70°	19661.3	16840.8	16724.7	17025.4	16200.7	19037.1	23996.8	21032.8	18652.1	17663.3
72.5°	15476.2	11901.6	10921.9	12029.2	12004.1	14523.9	19934.7	14924.8	12601.0	12516.7
75°	12170.4	8286.0	7272.2	7452.2	7798.5	10514.1	15877.1	9477.5	7759.7	7071.7
77.5°	8169.8	5871.1	5476.9	5255.9	5629.6	6750.5	10044.8	5139.7	4351.5	4121.4
80°	4709.1	4264.9	4843.6	4397.0	4597.5	4253.5	4996.2	2358.0	1957.0	2118.8
82.5°	3064.3	2428.6	2588.1	1922.8	2629.1	2651.9	1603.9	697.1	590.1	626.5
85°	1916.0	1139.1	640.2	455.7	906.7	1667.7	501.2	43.3	50.1	43.3
87.5°	496.7	189.1	79.7	118.5	145.8	129.9	116.2	6.8	2.3	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)