

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: P648379

Luminaire Tested: **GALN-SA4B-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648379
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-SA4B-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA 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: 9743.7 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

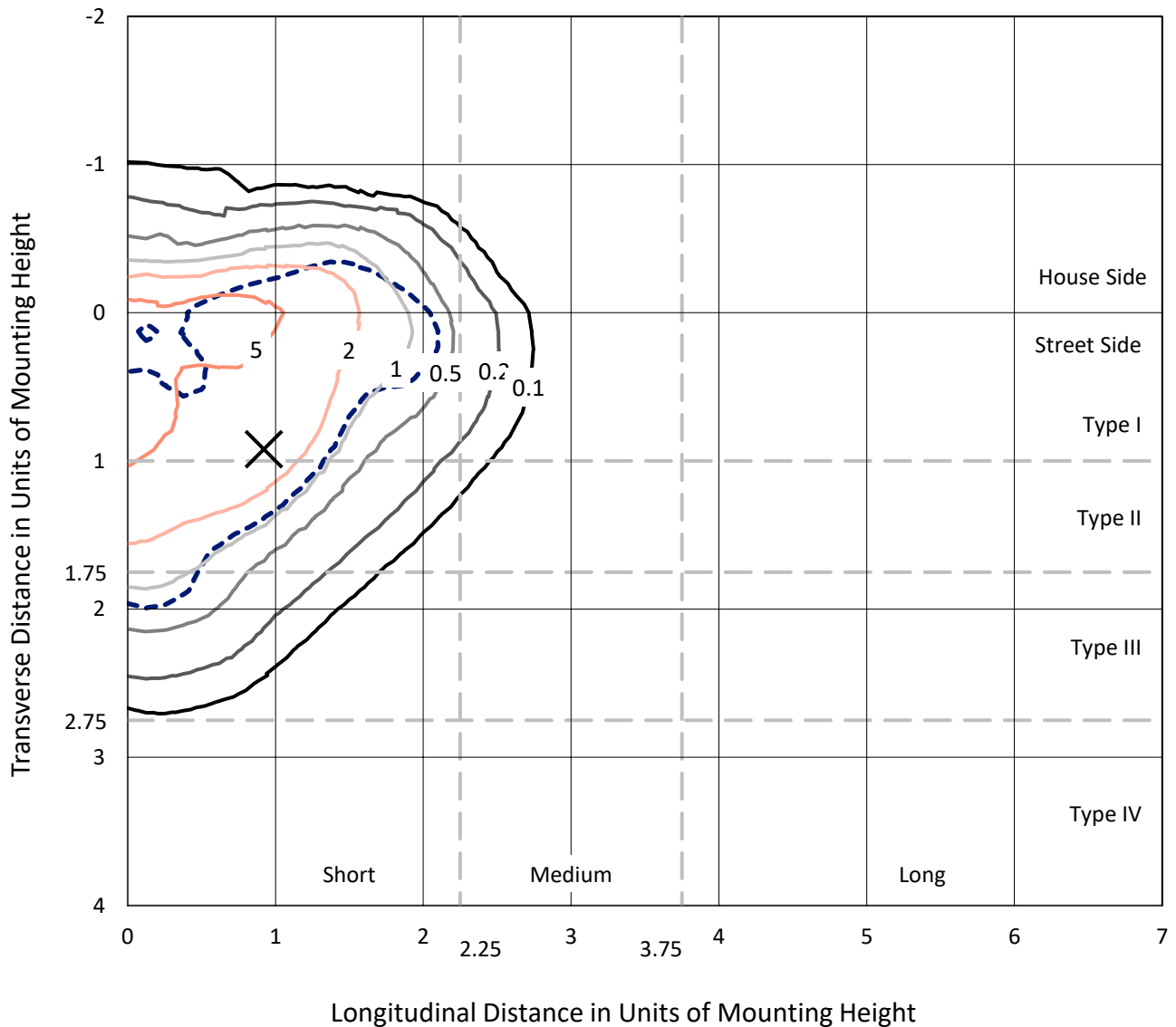
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

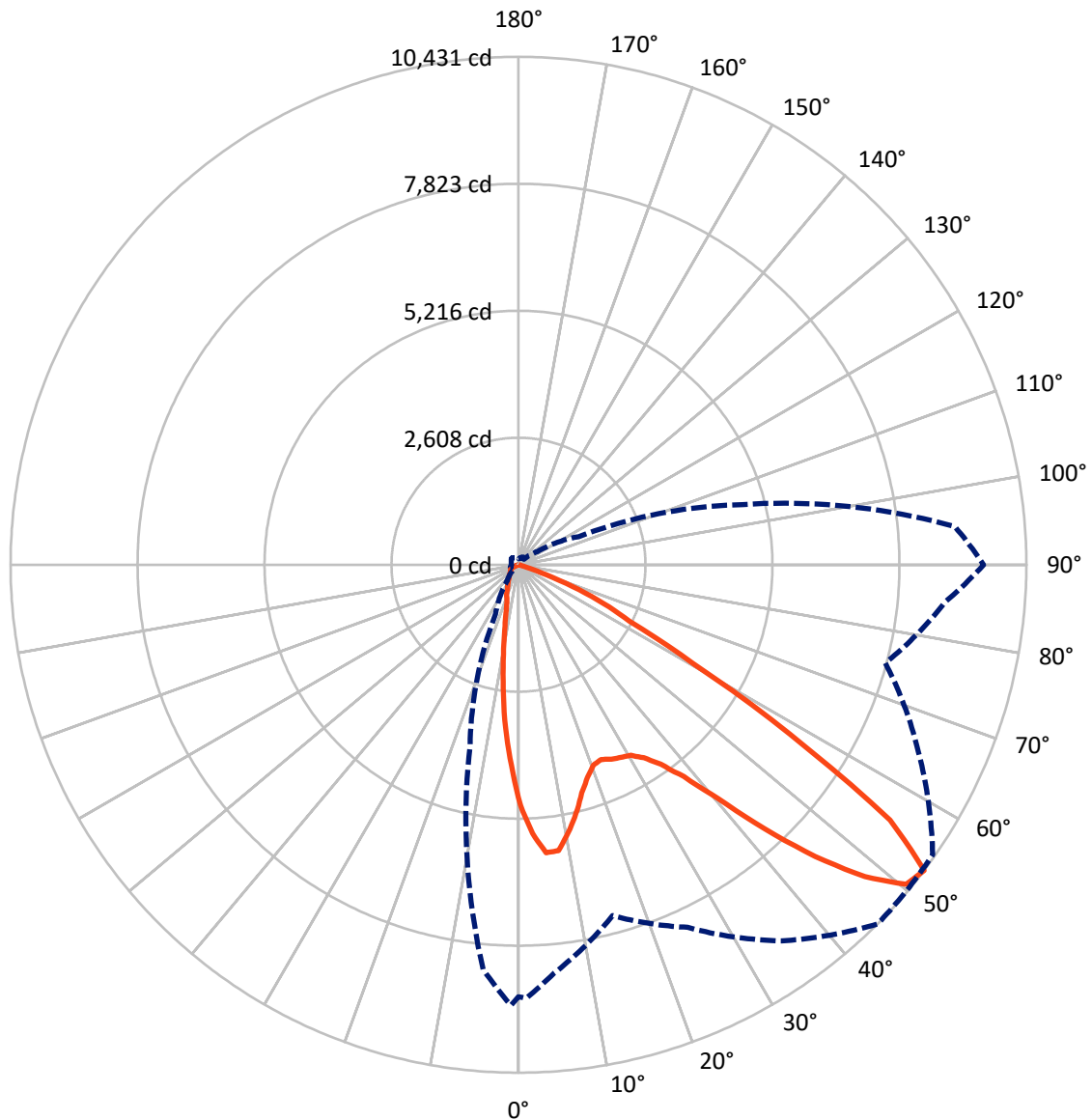
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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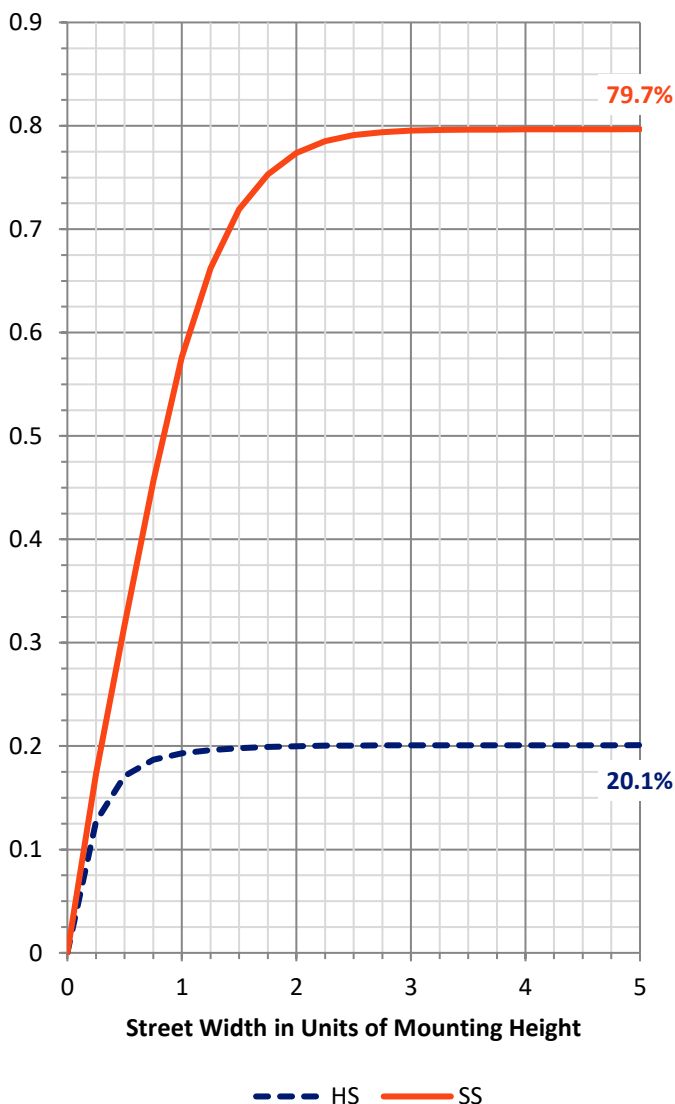
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1977.5	0.0	1977.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7766.2	0.0	7766.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	9743.7	0.0	9743.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.3	3.7
10°-20°	710.9	7.3
20°-30°	1081.8	11.1
30°-40°	1616.9	16.6
40°-50°	2302.6	23.6
50°-60°	2475.2	25.4
60°-70°	1096.8	11.3
70°-80°	88.7	0.9
80°-90°	10.3	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°	9743.7	100.0
0°-180°	9743.7	100.0

Coefficient of Utilization



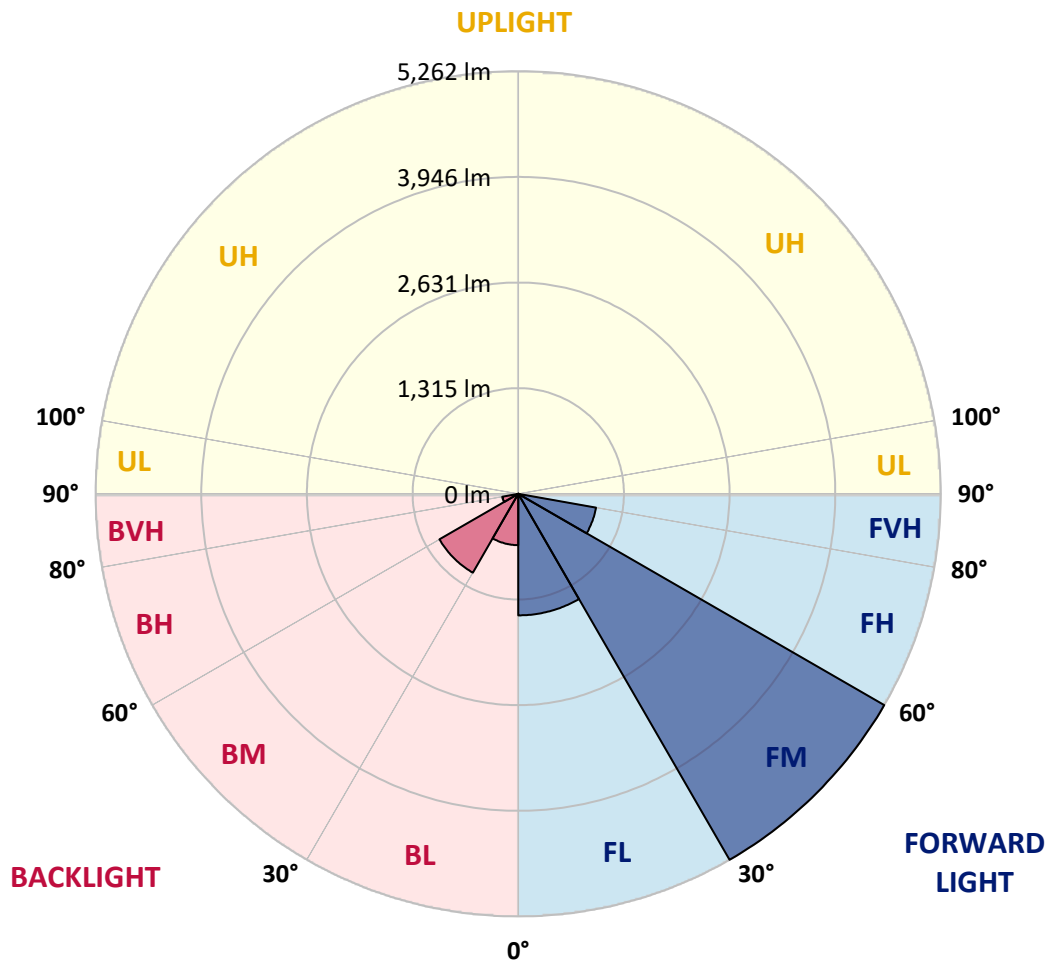
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.4	15.5			
FM (30°-60°)	5261.9	54.0			
FH (60°-80°)	983.3	10.1			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	639.6	6.6	B2/1000		
BM (30°-60°)	1132.9	11.6	B2/2500		
BH (60°-80°)	202.3	2.1	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5
2.5°	5227.9	5243.3	5327.6	5433.0	5488.6	5615.0	5526.9	5549.9	5502.0	5333.3	5201.1
5°	5068.9	5066.9	5174.3	5434.9	5682.2	5933.2	5940.9	5806.7	5571.0	5312.3	4942.4
7.5°	4589.8	4664.5	4775.7	5191.5	5649.6	5837.3	5927.5	5770.3	5408.1	5038.2	4637.7
10°	4227.6	4265.9	4453.7	4955.8	5291.2	5542.2	5597.8	5507.8	5229.9	4768.0	4319.6
12.5°	4018.7	4037.9	4258.3	4679.8	5034.4	5220.3	5247.1	5289.2	5090.0	4656.9	4118.3
15°	4020.6	4036.0	4333.0	4685.6	4825.5	4775.7	4863.8	4861.9	4948.2	4635.8	4287.0
17.5°	4310.0	4327.2	4595.5	4770.0	4708.6	4591.7	4586.0	4674.1	4856.2	4898.3	4541.9
20°	4808.2	4848.5	5045.9	5036.3	4691.3	4455.7	4390.5	4457.5	4881.1	5120.7	5055.4
22.5°	5479.0	5534.6	5672.5	5408.1	4770.0	4363.7	4342.6	4472.9	5045.9	5617.0	5638.1
25°	6257.0	6351.0	6418.0	6078.8	5049.7	4522.7	4423.1	4647.3	5268.2	6155.5	6379.7
27.5°	6772.6	6870.3	6855.0	6370.1	5237.6	4564.9	4480.6	4689.5	5461.7	6283.9	6766.8
30°	7175.0	7234.5	7341.7	6527.2	5425.3	4683.7	4540.0	4867.7	5525.0	6506.2	7234.5
32.5°	7644.5	7684.8	7692.4	6805.1	5714.7	4833.1	4723.9	5090.0	5804.8	6718.9	7648.3
35°	8117.9	8177.3	8052.7	7148.2	5892.9	5111.0	5030.5	5475.1	6029.0	6939.3	8104.4
37.5°	8631.5	8662.2	8374.7	7290.0	6147.8	5563.3	5519.2	5891.1	6418.0	7337.9	8610.4
40°	9062.7	9091.4	8717.7	7464.4	6416.1	6195.7	6308.8	6684.4	6946.9	7596.6	8863.3
42.5°	9302.2	9369.3	8832.7	7368.6	6954.6	6912.5	7414.5	7546.8	7560.2	7669.4	9089.5
45°	9367.3	9336.7	8643.0	7447.1	7426.1	8091.1	8547.1	8721.5	8169.6	7803.6	9147.0
47.5°	9066.5	9106.8	8363.1	7378.1	8045.1	8984.1	9574.4	9898.2	8623.8	7686.7	9005.2
50°	8823.1	8771.4	8273.1	7328.3	8211.8	9405.7	10316.0	10388.8	9041.6	7830.4	8849.9
52.5°	8871.0	8903.6	8416.9	7460.6	8215.6	9430.6	10431.0	10381.2	9055.0	7797.8	8794.3
55°	8972.6	8828.9	8355.5	7169.2	7665.6	8735.0	9258.1	9181.5	8357.4	7450.9	8658.3
57.5°	7742.2	7964.6	7682.9	6400.8	6291.6	6581.0	6571.3	6807.1	6234.1	6412.3	7882.1
60°	6283.9	6322.2	6427.6	5475.1	4354.0	4254.4	4116.5	3967.0	4195.0	5482.8	7169.2
62.5°	5526.9	5480.9	5856.5	4980.7	3073.9	2573.7	2550.7	2642.7	3236.8	5229.9	6724.6
65°	4016.8	4074.3	4346.4	3865.4	2307.3	1964.3	1929.8	2202.0	2619.7	4191.2	5132.1
67.5°	2453.0	2564.2	2589.1	2384.0	1565.7	1243.7	1193.9	1441.1	1891.5	2711.7	3008.8
70°	1132.6	1266.7	1393.2	1301.3	906.5	511.7	483.0	605.6	954.4	1560.0	1596.4
72.5°	343.0	345.0	483.0	504.0	293.2	115.0	101.6	134.1	323.8	515.5	542.3
75°	24.9	26.9	65.1	74.8	55.6	28.7	30.7	36.4	69.0	115.0	86.2
77.5°	1.9	1.9	1.9	9.6	17.2	19.2	24.9	28.7	36.4	42.1	38.4
80°	1.9	0.0	1.9	7.7	13.4	19.2	23.0	26.9	28.7	32.6	28.7
82.5°	0.0	0.0	0.0	5.7	13.4	19.2	21.1	28.7	32.6	38.4	32.6
85°	0.0	0.0	0.0	5.7	13.4	21.1	19.2	9.6	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°	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5
2.5°	5224.1	5149.4	4978.8	4892.6	4689.5	4660.7	4461.4	4428.8	4361.7	4325.3	4237.1
5°	4779.5	4689.5	4411.6	4177.8	3905.6	3715.9	3570.2	3438.0	3361.3	3290.5	3323.1
7.5°	4417.3	4154.8	3846.3	3455.3	3141.0	2937.8	2715.5	2533.5	2426.2	2353.3	2370.6
10°	4037.9	3867.3	3438.0	2999.2	2619.7	2476.0	2301.6	2161.7	2010.3	1880.0	1818.7
12.5°	3919.1	3666.1	3127.5	2681.1	2393.6	2253.7	2054.4	1893.4	1699.8	1540.8	1485.2
15°	3940.1	3696.8	3043.2	2566.0	2226.9	1985.4	1747.7	1548.5	1335.7	1224.6	1167.1
17.5°	4283.2	3861.5	3098.8	2445.3	1995.0	1659.6	1366.4	1113.4	954.4	839.4	814.5
20°	4704.7	4218.0	3217.7	2357.1	1805.3	1320.4	998.5	779.9	647.8	628.6	622.8
22.5°	5321.8	4800.6	3472.5	2297.8	1573.4	1029.1	684.2	567.3	530.9	527.0	528.9
25°	6184.2	5530.7	3750.4	2247.9	1399.0	793.4	559.6	481.0	469.5	463.8	473.3
27.5°	6557.9	5971.5	3897.9	2140.6	1239.9	714.8	551.9	477.2	444.6	435.0	440.8
30°	7019.8	6264.7	4129.9	1956.6	1006.1	588.3	515.5	519.4	504.0	456.1	440.8
32.5°	7633.0	6630.8	4246.8	1826.3	898.8	486.8	377.6	346.9	387.1	394.8	408.2
35°	8025.9	7002.5	4306.2	1749.7	843.2	415.9	320.0	291.3	281.7	283.6	291.3
37.5°	8756.1	7504.7	4380.9	1669.2	801.1	362.2	289.4	262.5	249.2	249.2	256.8
40°	9193.0	7903.2	4482.4	1625.1	758.9	329.6	262.5	239.5	228.1	228.1	231.8
42.5°	9302.2	8100.6	4448.0	1609.8	711.0	322.0	239.5	222.3	208.9	206.9	205.1
45°	9497.7	8401.5	4453.7	1592.5	661.2	293.2	226.1	206.9	187.8	185.9	184.0
47.5°	9712.3	8618.1	4465.2	1525.4	613.2	245.3	235.7	191.7	168.7	164.8	164.8
50°	9528.3	8790.5	4564.9	1458.4	551.9	199.3	231.8	180.2	149.5	143.8	145.6
52.5°	9551.3	8993.7	4775.7	1364.5	475.3	159.0	187.8	170.5	136.1	126.5	128.4
55°	9183.4	8779.1	4804.4	1264.9	371.8	122.6	143.8	149.5	115.0	111.2	111.2
57.5°	7905.2	7433.7	4239.1	1025.3	245.3	101.6	103.5	130.3	99.7	95.8	97.7
60°	6764.9	5967.7	3411.2	676.5	153.3	80.5	74.8	132.2	88.2	86.2	92.0
62.5°	6167.0	4904.1	2587.1	419.7	105.4	61.3	51.8	107.3	76.7	76.7	84.3
65°	4455.7	3294.3	1504.4	220.4	74.8	47.9	38.4	61.3	63.3	65.1	69.0
67.5°	2759.6	1663.4	634.3	107.3	49.8	32.6	24.9	38.4	42.1	42.1	46.0
70°	1362.6	663.0	210.8	61.3	38.4	26.9	17.2	21.1	21.1	19.2	21.1
72.5°	421.6	199.3	53.6	38.4	26.9	17.2	9.6	7.7	3.8	0.0	1.9
75°	47.9	38.4	34.5	26.9	17.2	7.7	1.9	0.0	0.0	0.0	0.0
77.5°	28.7	32.6	32.6	26.9	17.2	5.7	0.0	0.0	0.0	0.0	0.0
80°	23.0	24.9	26.9	24.9	15.3	7.7	0.0	0.0	0.0	0.0	0.0
82.5°	28.7	32.6	36.4	32.6	21.1	9.6	3.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.7	1.9	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°	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5
2.5°	4200.7	4158.6	4218.0	4129.9	4127.9	4129.9	4105.0	4081.9	4118.3	4216.1	4225.7
5°	3206.2	3296.2	3324.9	3418.9	3367.1	3290.5	3305.8	3254.1	3380.5	3436.1	3392.0
7.5°	2334.2	2328.4	2522.0	2533.5	2558.4	2560.3	2556.5	2454.9	2351.4	2374.4	2443.4
10°	1811.0	1713.3	1807.2	1797.6	1858.9	1841.7	1866.6	1757.4	1793.8	1793.8	1837.9
12.5°	1475.6	1372.1	1354.9	1330.0	1354.9	1364.5	1374.1	1352.9	1414.3	1443.1	1473.7
15°	1126.8	1069.3	1054.0	1006.1	1013.8	1040.6	1063.6	1073.2	1054.0	1098.1	1101.9
17.5°	818.3	816.4	826.0	824.0	816.4	810.6	808.8	783.8	776.1	779.9	795.3
20°	620.9	636.3	668.8	701.4	718.6	697.6	668.8	626.6	609.4	613.2	615.2
22.5°	530.9	553.8	597.9	634.3	651.6	613.2	561.5	525.1	517.4	515.5	513.6
25°	481.0	507.9	540.4	551.9	550.0	527.0	488.7	473.3	469.5	465.7	448.4
27.5°	454.2	463.8	469.5	483.0	488.7	473.3	463.8	440.8	436.9	436.9	425.4
30°	438.9	433.1	440.8	431.2	438.9	427.4	429.2	429.2	419.7	423.5	423.5
32.5°	408.2	410.1	410.1	391.0	396.7	383.3	396.7	408.2	410.1	412.0	427.4
35°	298.9	333.5	350.7	350.7	356.4	346.9	345.0	331.5	314.3	297.1	289.4
37.5°	262.5	275.9	298.9	312.3	322.0	314.3	297.1	275.9	266.4	258.7	251.0
40°	233.8	245.3	260.7	275.9	295.1	285.6	258.7	249.2	237.6	237.6	230.0
42.5°	210.8	216.6	226.1	249.2	270.2	251.0	231.8	224.3	218.5	216.6	214.6
45°	189.7	191.7	201.2	220.4	245.3	226.1	206.9	197.4	199.3	201.2	199.3
47.5°	170.5	174.4	180.2	203.1	218.5	208.9	187.8	182.0	182.0	182.0	184.0
50°	147.6	157.1	168.7	187.8	199.3	193.6	176.3	168.7	164.8	164.8	166.7
52.5°	132.2	139.9	155.2	178.2	193.6	184.0	166.7	155.2	147.6	145.6	149.5
55°	115.0	128.4	153.3	170.5	191.7	182.0	162.9	149.5	136.1	134.1	134.1
57.5°	103.5	124.6	147.6	168.7	185.9	178.2	162.9	145.6	128.4	126.5	126.5
60°	97.7	120.7	143.8	162.9	185.9	174.4	161.0	141.8	122.6	122.6	120.7
62.5°	92.0	113.1	136.1	155.2	178.2	168.7	155.2	136.1	116.9	116.9	113.1
65°	76.7	97.7	113.1	130.3	155.2	145.6	132.2	118.8	103.5	99.7	101.6
67.5°	53.6	67.1	82.4	99.7	115.0	111.2	105.4	95.8	82.4	80.5	78.5
70°	26.9	36.4	49.8	67.1	80.5	76.7	72.8	65.1	57.5	55.6	55.6
72.5°	3.8	11.5	21.1	30.7	42.1	44.1	42.1	40.2	38.4	36.4	38.4
75°	0.0	0.0	0.0	7.7	17.2	21.1	24.9	28.7	28.7	24.9	30.7
77.5°	0.0	0.0	0.0	0.0	1.9	9.6	19.2	24.9	30.7	26.9	36.4
80°	0.0	0.0	0.0	0.0	1.9	11.5	19.2	26.9	30.7	26.9	38.4
82.5°	0.0	0.0	0.0	0.0	1.9	13.4	19.2	24.9	28.7	26.9	34.5
85°	0.0	0.0	0.0	0.0	5.7	11.5	7.7	3.8	1.9	1.9	5.7
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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CATALOG NUMBER: GALN-SA4B-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5	4940.5
2.5°	4279.3	4415.4	4561.1	4616.6	4789.1	4919.4	5007.5	5197.3	5226.1	5227.9
5°	3438.0	3507.0	3756.1	3873.0	4129.9	4329.1	4541.9	4848.5	5053.6	5068.9
7.5°	2443.4	2635.0	2740.4	3045.2	3361.3	3673.8	3989.9	4346.4	4584.0	4589.8
10°	1966.2	2090.8	2278.6	2506.6	2773.1	3091.1	3512.8	3926.7	4168.1	4227.6
12.5°	1582.9	1801.4	2016.1	2251.8	2454.9	2694.5	3148.7	3700.5	3899.9	4018.7
15°	1218.8	1418.2	1671.1	1947.1	2177.1	2497.1	3014.5	3645.0	3980.4	4020.6
17.5°	898.8	1077.0	1310.8	1571.5	1916.4	2370.6	3037.5	3926.7	4242.9	4310.0
20°	645.8	749.3	933.3	1236.0	1674.9	2223.0	3060.5	4212.2	4693.3	4808.2
22.5°	511.7	553.8	674.6	942.9	1404.7	2067.8	3223.4	4758.4	5312.3	5479.0
25°	444.6	467.6	525.1	743.5	1234.2	2052.5	3484.0	5413.8	6136.3	6257.0
27.5°	429.2	433.1	483.0	682.2	1142.2	1950.9	3583.6	5879.5	6649.9	6772.6
30°	452.3	513.6	517.4	576.8	971.6	1749.7	3635.4	6329.9	7085.0	7175.0
32.5°	391.0	371.8	385.2	446.5	854.7	1632.8	3733.2	6722.8	7581.3	7644.5
35°	272.1	285.6	316.2	387.1	747.4	1510.1	3758.1	7155.8	8052.7	8117.9
37.5°	251.0	258.7	283.6	329.6	657.3	1441.1	3723.6	7472.1	8541.4	8631.5
40°	233.8	243.4	256.8	298.9	590.2	1364.5	3675.6	7757.6	8840.4	9062.7
42.5°	220.4	228.1	239.5	285.6	532.8	1287.8	3608.6	8160.0	9108.6	9302.2
45°	205.1	216.6	230.0	277.9	500.2	1236.0	3558.7	8135.1	9263.9	9367.3
47.5°	189.7	208.9	224.3	258.7	490.6	1211.1	3579.9	8041.3	9137.4	9066.5
50°	174.4	199.3	226.1	214.6	467.6	1161.3	3604.8	8169.6	8836.5	8823.1
52.5°	161.0	189.7	210.8	176.3	415.9	1113.4	3846.3	8338.2	9049.3	8871.0
55°	141.8	170.5	168.7	141.8	337.3	1077.0	4036.0	8342.1	8905.5	8972.6
57.5°	128.4	151.4	132.2	118.8	249.2	900.7	3727.4	6994.9	7623.4	7742.2
60°	118.8	147.6	99.7	93.9	162.9	649.7	3254.1	5417.7	6059.6	6283.9
62.5°	109.2	139.9	78.5	76.7	113.1	461.9	2675.3	4534.2	5222.2	5526.9
65°	95.8	99.7	63.3	59.4	80.5	249.2	1629.0	3121.8	3903.7	4016.8
67.5°	78.5	76.7	51.8	47.9	53.6	120.7	718.6	1563.8	2263.3	2453.0
70°	63.3	63.3	44.1	38.4	38.4	55.6	187.8	622.8	1023.4	1132.6
72.5°	46.0	47.9	34.5	30.7	28.7	26.9	30.7	124.6	268.3	343.0
75°	40.2	42.1	34.5	26.9	21.1	17.2	13.4	11.5	15.3	24.9
77.5°	44.1	44.1	36.4	24.9	19.2	13.4	7.7	3.8	3.8	1.9
80°	55.6	57.5	47.9	32.6	23.0	15.3	9.6	3.8	1.9	1.9
82.5°	59.4	65.1	53.6	40.2	28.7	17.2	9.6	1.9	0.0	0.0
85°	15.3	24.9	42.1	36.4	28.7	17.2	9.6	1.9	0.0	0.0
87.5°	0.0	1.9	5.7	5.7	7.7	7.7	5.7	1.9	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)