

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: P650854

Luminaire Tested: **GALN-SA4C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650854
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-SA4C-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 12930.4 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

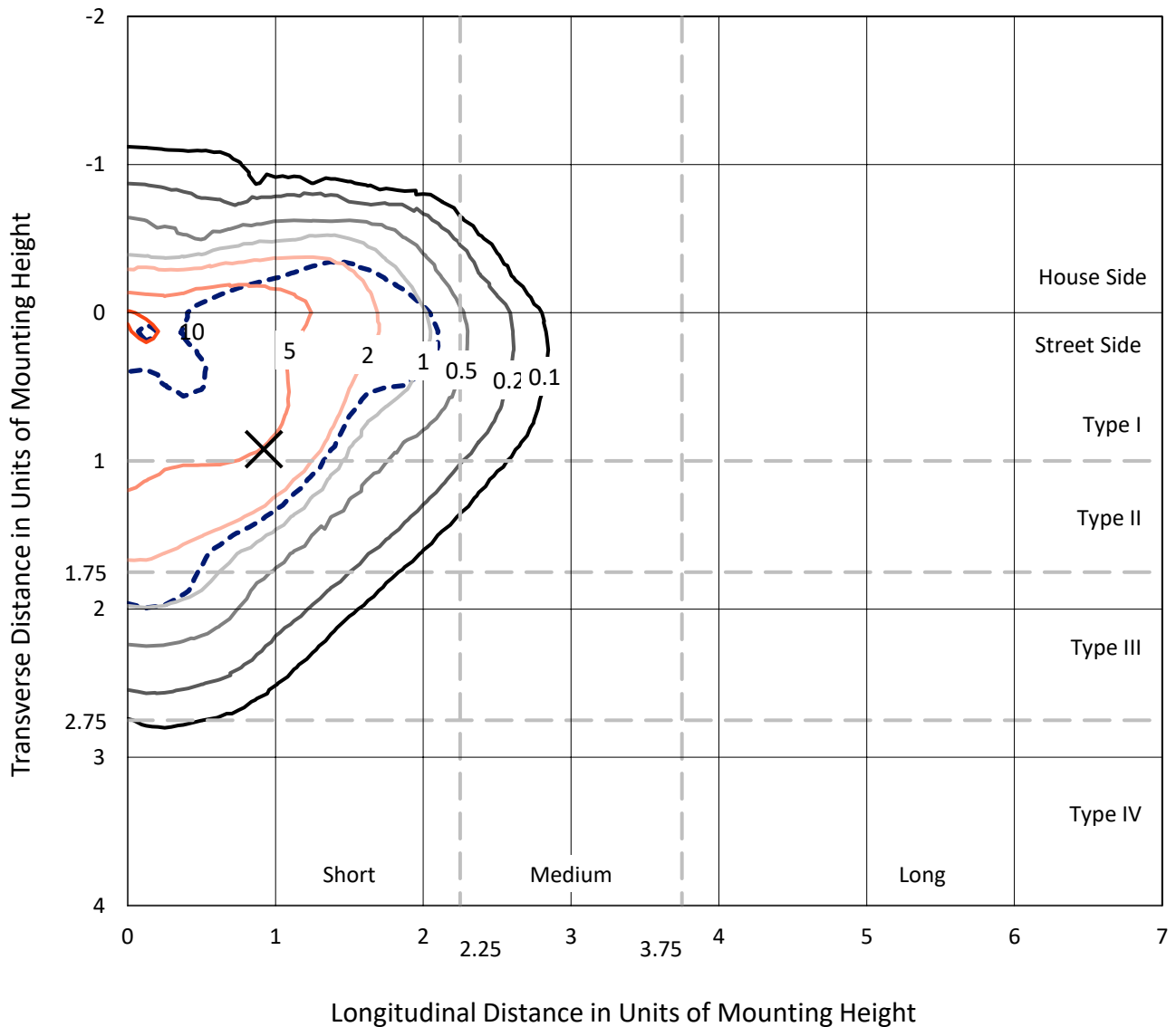
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

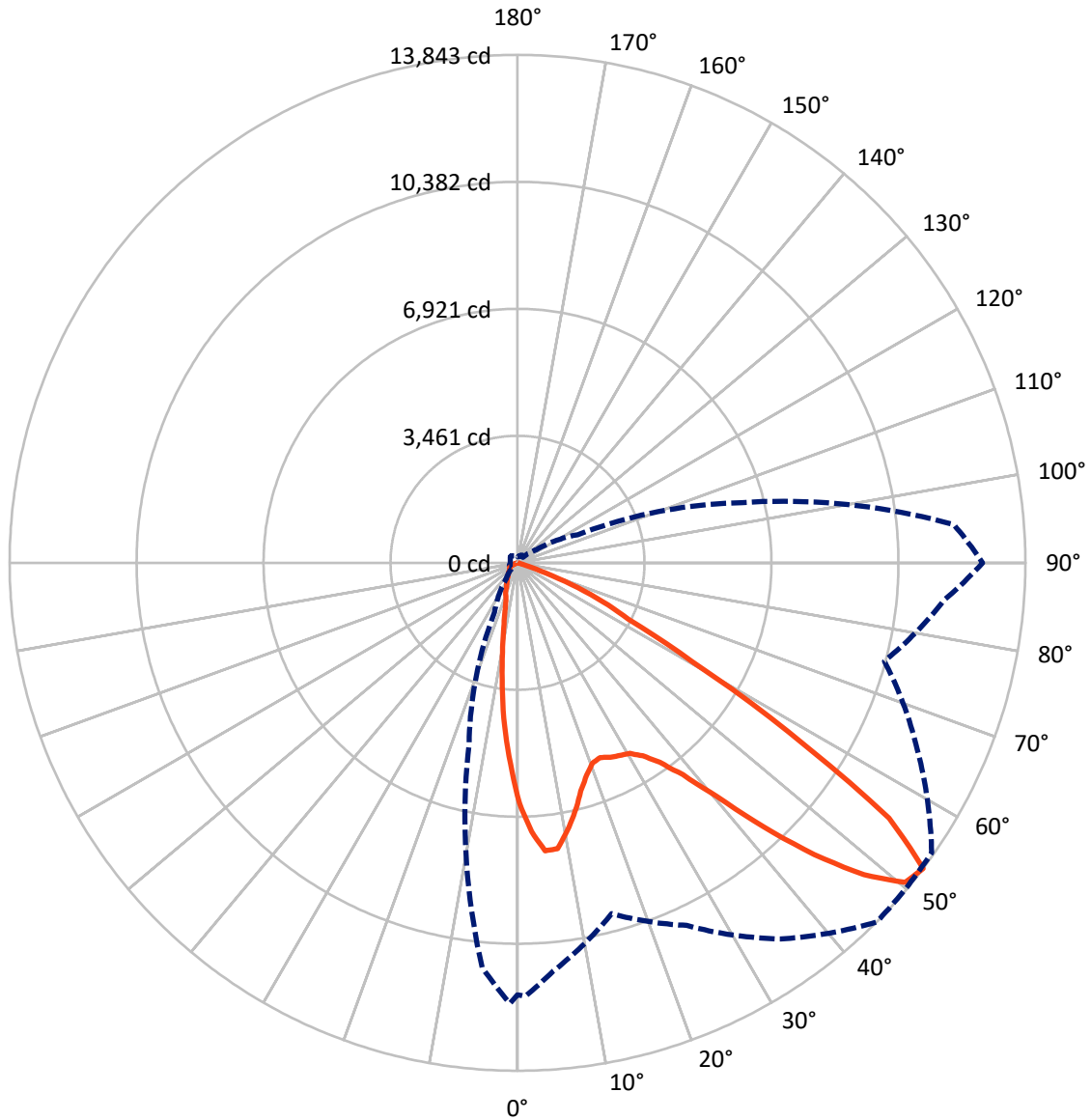
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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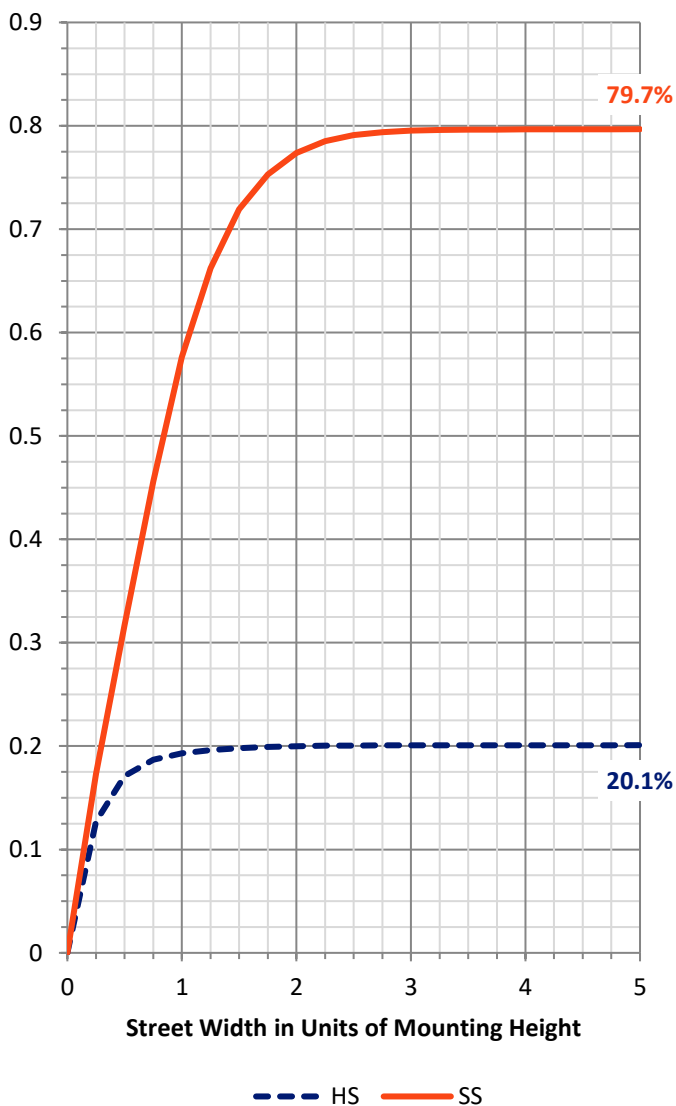
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2624.2	0.0	2624.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10306.2	0.0	10306.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	12930.4	0.0	12930.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.1	3.7
10°-20°	943.4	7.3
20°-30°	1435.6	11.1
30°-40°	2145.7	16.6
40°-50°	3055.7	23.6
50°-60°	3284.8	25.4
60°-70°	1455.6	11.3
70°-80°	117.8	0.9
80°-90°	13.7	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°	12930.4	100.0
0°-180°	12930.4	100.0

Coefficient of Utilization



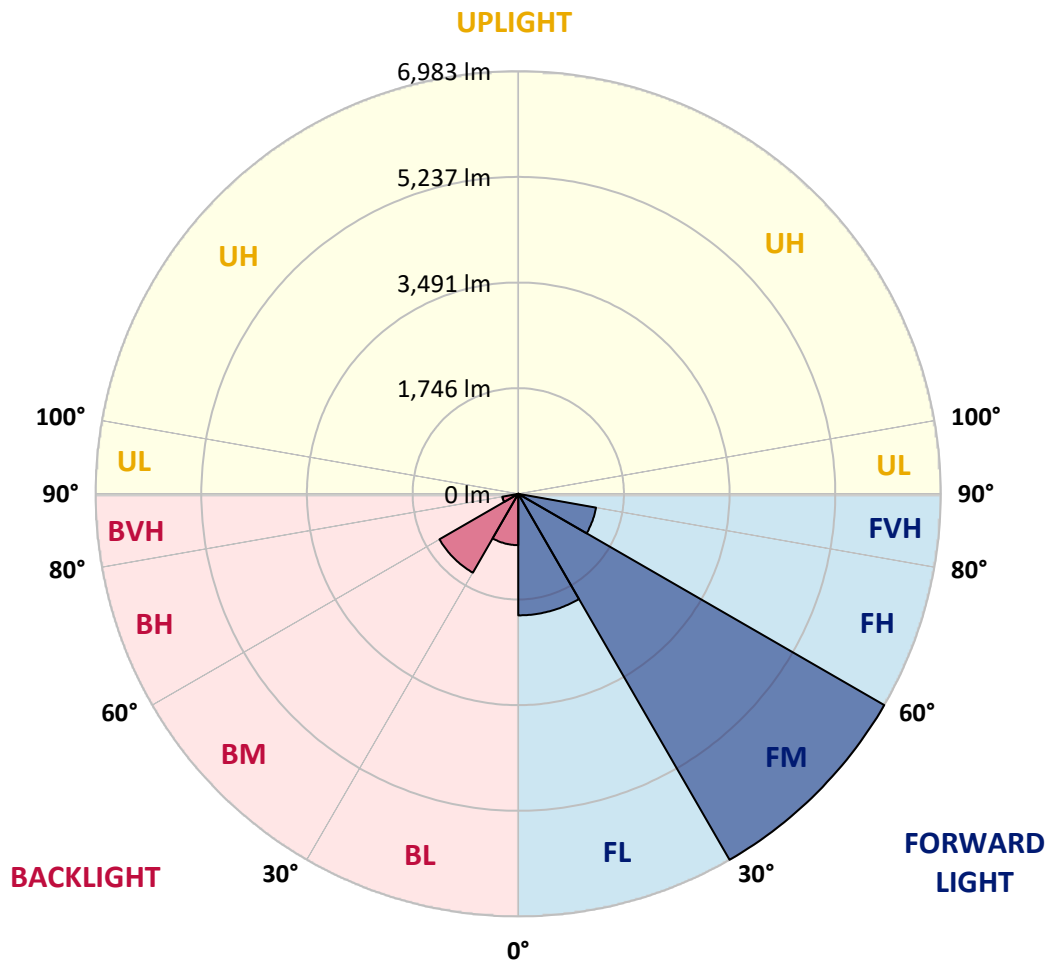
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.4	15.5			
FM (30°-60°)	6982.8	54.0			
FH (60°-80°)	1304.8	10.1			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	848.8	6.6	B2/1000		
BM (30°-60°)	1503.4	11.6	B2/2500		
BH (60°-80°)	268.5	2.1	B1/500		G1/500
BVH (80°-90°)	3.6	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°	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3
2.5°	6937.7	6958.1	7070.0	7209.9	7283.6	7451.5	7334.5	7365.1	7301.5	7077.7	6902.2
5°	6726.7	6724.1	6866.6	7212.4	7540.5	7873.7	7883.9	7705.8	7393.0	7049.7	6558.9
7.5°	6090.9	6190.1	6337.6	6889.5	7497.3	7746.5	7866.0	7657.5	7176.8	6686.0	6154.4
10°	5610.2	5661.1	5910.3	6576.6	7021.7	7354.9	7428.6	7309.0	6940.4	6327.4	5732.3
12.5°	5333.0	5358.4	5650.9	6210.4	6680.9	6927.6	6963.2	7019.2	6754.7	6179.9	5465.2
15°	5335.6	5355.9	5750.1	6218.0	6403.7	6337.6	6454.6	6452.1	6566.4	6151.9	5689.1
17.5°	5719.6	5742.5	6098.5	6330.0	6248.5	6093.5	6085.8	6202.8	6444.4	6500.3	6027.4
20°	6380.8	6434.2	6696.2	6683.4	6225.7	5912.9	5826.4	5915.4	6477.5	6795.4	6708.9
22.5°	7270.9	7344.7	7527.8	7176.8	6330.0	5790.8	5762.9	5935.8	6696.2	7454.0	7482.0
25°	8303.4	8428.1	8517.1	8067.0	6701.3	6001.9	5869.7	6167.2	6991.1	8168.6	8466.3
27.5°	8987.6	9117.3	9096.9	8453.5	6950.5	6057.8	5946.0	6223.1	7248.1	8339.1	8979.9
30°	9521.6	9600.5	9742.9	8662.0	7199.7	6215.5	6024.8	6459.6	7332.0	8634.0	9600.5
32.5°	10144.7	10198.1	10208.3	9030.8	7583.7	6413.9	6268.9	6754.7	7703.3	8916.4	10149.8
35°	10772.9	10851.8	10686.4	9486.1	7820.3	6782.7	6675.9	7265.8	8000.9	9208.9	10755.0
37.5°	11454.4	11495.1	11113.6	9674.2	8158.5	7382.8	7324.4	7817.7	8517.1	9737.8	11426.5
40°	12026.6	12064.8	11568.9	9905.6	8514.5	8222.1	8372.2	8870.6	9219.0	10081.2	11762.1
42.5°	12344.5	12433.6	11721.5	9778.5	9229.2	9173.2	9839.5	10015.0	10032.8	10177.8	12062.3
45°	12431.1	12390.4	11469.7	9882.8	9854.8	10737.3	11342.6	11574.0	10841.6	10355.8	12138.6
47.5°	12031.8	12085.2	11098.4	9791.3	10676.2	11922.4	12705.7	13135.5	11444.2	10200.7	11950.4
50°	11708.7	11640.1	10978.9	9725.1	10897.5	12481.9	13689.9	13786.5	11998.7	10391.4	11744.4
52.5°	11772.3	11815.5	11169.7	9900.6	10902.6	12514.9	13842.5	13776.3	12016.5	10348.2	11670.6
55°	11907.1	11716.4	11088.2	9514.0	10172.7	11591.8	12286.1	12184.3	11090.8	9887.9	11490.1
57.5°	10274.4	10569.4	10195.6	8494.2	8349.3	8733.3	8720.6	9033.3	8272.9	8509.5	10460.1
60°	8339.1	8389.9	8529.8	7265.8	5778.1	5645.9	5462.7	5264.4	5567.0	7276.0	9514.0
62.5°	7334.5	7273.5	7771.9	6609.7	4079.3	3415.5	3384.9	3507.1	4295.4	6940.4	8924.0
65°	5330.5	5406.8	5767.9	5129.6	3062.0	2606.8	2561.0	2922.1	3476.5	5562.0	6810.6
67.5°	3255.3	3402.8	3435.8	3163.7	2077.8	1650.5	1584.4	1912.4	2510.1	3598.6	3992.8
70°	1503.0	1681.1	1848.9	1726.8	1202.9	679.0	640.8	803.7	1266.5	2070.1	2118.5
72.5°	455.2	457.8	640.8	668.8	389.1	152.6	134.8	178.0	429.8	684.2	719.7
75°	33.1	35.6	86.5	99.2	73.8	38.2	40.7	48.4	91.6	152.6	114.5
77.5°	2.5	2.5	2.5	12.7	22.9	25.4	33.1	38.2	48.4	55.9	50.9
80°	2.5	0.0	2.5	10.2	17.8	25.4	30.5	35.6	38.2	43.2	38.2
82.5°	0.0	0.0	0.0	7.7	17.8	25.4	28.0	38.2	43.2	50.9	43.2
85°	0.0	0.0	0.0	7.7	17.8	28.0	25.4	12.7	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°	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3
2.5°	6932.7	6833.5	6607.1	6492.7	6223.1	6185.0	5920.5	5877.2	5788.3	5739.9	5622.9
5°	6342.7	6223.1	5854.4	5544.1	5183.0	4931.2	4737.9	4562.4	4460.7	4366.6	4409.9
7.5°	5862.0	5513.6	5104.1	4585.3	4168.2	3898.7	3603.7	3362.1	3219.7	3123.1	3145.9
10°	5358.4	5132.1	4562.4	3980.0	3476.5	3285.8	3054.3	2868.7	2667.8	2494.8	2413.5
12.5°	5200.8	4865.1	4150.4	3557.9	3176.5	2990.8	2726.3	2512.7	2255.8	2044.7	1971.0
15°	5228.7	4905.8	4038.6	3405.3	2955.2	2634.8	2319.4	2054.9	1772.6	1625.1	1548.8
17.5°	5684.0	5124.5	4112.3	3245.1	2647.5	2202.4	1813.3	1477.6	1266.5	1113.9	1080.9
20°	6243.5	5597.5	4270.0	3128.1	2395.7	1752.2	1325.0	1035.1	859.6	834.2	826.5
22.5°	7062.4	6370.7	4608.3	3049.3	2088.0	1365.7	907.9	752.8	704.4	699.4	701.9
25°	8206.8	7339.6	4977.0	2983.1	1856.5	1052.8	742.6	638.3	623.1	615.4	628.1
27.5°	8702.8	7924.5	5172.8	2840.7	1645.4	948.6	732.4	633.3	590.0	577.3	584.9
30°	9315.7	8313.6	5480.5	2596.6	1335.2	780.8	684.2	689.2	668.8	605.3	584.9
32.5°	10129.4	8799.4	5635.7	2423.7	1192.8	646.0	501.0	460.3	513.7	523.9	541.7
35°	10650.8	9292.8	5714.5	2321.9	1119.0	551.9	424.7	386.5	373.8	376.4	386.5
37.5°	11619.8	9959.0	5813.7	2215.1	1063.0	480.6	384.0	348.4	330.6	330.6	340.8
40°	12199.6	10488.0	5948.5	2156.6	1007.1	437.4	348.4	317.9	302.7	302.7	307.7
42.5°	12344.5	10750.0	5902.7	2136.2	943.5	427.2	317.9	295.0	277.2	274.7	272.1
45°	12604.0	11149.3	5910.3	2113.3	877.4	389.1	300.1	274.7	249.3	246.7	244.1
47.5°	12888.8	11436.7	5925.6	2024.4	813.8	325.6	312.9	254.3	223.8	218.7	218.7
50°	12644.7	11665.5	6057.8	1935.4	732.4	264.5	307.7	239.1	198.4	190.7	193.3
52.5°	12675.2	11935.1	6337.6	1810.8	630.7	211.1	249.3	226.3	180.6	167.9	170.4
55°	12186.8	11650.3	6375.7	1678.5	493.4	162.7	190.7	198.4	152.6	147.5	147.5
57.5°	10490.5	9864.9	5625.5	1360.6	325.6	134.8	137.3	172.9	132.2	127.2	129.7
60°	8977.4	7919.4	4526.9	897.8	203.4	106.8	99.2	175.5	117.0	114.5	122.1
62.5°	8183.9	6508.0	3433.3	557.0	139.9	81.4	68.6	142.4	101.8	101.8	111.9
65°	5912.9	4371.7	1996.4	292.5	99.2	63.6	50.9	81.4	83.9	86.5	91.6
67.5°	3662.1	2207.5	841.8	142.4	66.1	43.2	33.1	50.9	55.9	55.9	61.1
70°	1808.2	879.9	279.7	81.4	50.9	35.6	22.9	28.0	28.0	25.4	28.0
72.5°	559.5	264.5	71.2	50.9	35.6	22.9	12.7	10.2	5.0	0.0	2.5
75°	63.6	50.9	45.8	35.6	22.9	10.2	2.5	0.0	0.0	0.0	0.0
77.5°	38.2	43.2	43.2	35.6	22.9	7.7	0.0	0.0	0.0	0.0	0.0
80°	30.5	33.1	35.6	33.1	20.4	10.2	0.0	0.0	0.0	0.0	0.0
82.5°	38.2	43.2	48.4	43.2	28.0	12.7	5.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.7	2.5	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°	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3
2.5°	5574.7	5518.7	5597.5	5480.5	5478.0	5480.5	5447.5	5417.0	5465.2	5595.0	5607.7
5°	4254.7	4374.3	4412.4	4537.0	4468.3	4366.6	4387.0	4318.3	4486.1	4559.9	4501.5
7.5°	3097.6	3089.9	3346.8	3362.1	3395.1	3397.6	3392.6	3257.8	3120.4	3151.0	3242.6
10°	2403.3	2273.6	2398.2	2385.5	2466.9	2444.0	2477.1	2332.1	2380.5	2380.5	2438.9
12.5°	1958.3	1820.9	1798.1	1764.9	1798.1	1810.8	1823.5	1795.5	1876.9	1915.0	1955.7
15°	1495.4	1419.1	1398.8	1335.2	1345.3	1380.9	1411.5	1424.1	1398.8	1457.2	1462.3
17.5°	1085.9	1083.4	1096.1	1093.6	1083.4	1075.7	1073.2	1040.1	1030.0	1035.1	1055.5
20°	824.0	844.4	887.6	930.8	953.7	925.7	887.6	831.6	808.7	813.8	816.4
22.5°	704.4	734.9	793.5	841.8	864.7	813.8	745.1	696.9	686.7	684.2	681.5
25°	638.3	674.0	717.2	732.4	729.9	699.4	648.5	628.1	623.1	618.0	595.1
27.5°	602.7	615.4	623.1	640.8	648.5	628.1	615.4	584.9	579.9	579.9	564.6
30°	582.4	574.7	584.9	572.2	582.4	567.1	569.7	569.7	557.0	562.0	562.0
32.5°	541.7	544.2	544.2	518.8	526.5	508.6	526.5	541.7	544.2	546.8	567.1
35°	396.7	442.5	465.4	465.4	473.1	460.3	457.8	439.9	417.1	394.2	384.0
37.5°	348.4	366.3	396.7	414.5	427.2	417.1	394.2	366.3	353.5	343.3	333.1
40°	310.2	325.6	345.9	366.3	391.7	379.0	343.3	330.6	315.4	315.4	305.2
42.5°	279.7	287.4	300.1	330.6	358.6	333.1	307.7	297.5	289.9	287.4	284.8
45°	251.8	254.3	267.0	292.5	325.6	300.1	274.7	262.0	264.5	267.0	264.5
47.5°	226.3	231.4	239.1	269.5	289.9	277.2	249.3	241.6	241.6	241.6	244.1
50°	195.8	208.6	223.8	249.3	264.5	256.8	234.0	223.8	218.7	218.7	221.3
52.5°	175.5	185.7	206.0	236.5	256.8	244.1	221.3	206.0	195.8	193.3	198.4
55°	152.6	170.4	203.4	226.3	254.3	241.6	216.1	198.4	180.6	178.0	178.0
57.5°	137.3	165.3	195.8	223.8	246.7	236.5	216.1	193.3	170.4	167.9	167.9
60°	129.7	160.2	190.7	216.1	246.7	231.4	213.6	188.2	162.7	162.7	160.2
62.5°	122.1	150.0	180.6	206.0	236.5	223.8	206.0	180.6	155.2	155.2	150.0
65°	101.8	129.7	150.0	172.9	206.0	193.3	175.5	157.7	137.3	132.2	134.8
67.5°	71.2	89.0	109.3	132.2	152.6	147.5	139.9	127.2	109.3	106.8	104.3
70°	35.6	48.4	66.1	89.0	106.8	101.8	96.6	86.5	76.3	73.8	73.8
72.5°	5.0	15.2	28.0	40.7	55.9	58.5	55.9	53.4	50.9	48.4	50.9
75°	0.0	0.0	0.0	10.2	22.9	28.0	33.1	38.2	38.2	33.1	40.7
77.5°	0.0	0.0	0.0	0.0	2.5	12.7	25.4	33.1	40.7	35.6	48.4
80°	0.0	0.0	0.0	0.0	2.5	15.2	25.4	35.6	40.7	35.6	50.9
82.5°	0.0	0.0	0.0	0.0	2.5	17.8	25.4	33.1	38.2	35.6	45.8
85°	0.0	0.0	0.0	0.0	7.7	15.2	10.2	5.0	2.5	2.5	7.7
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-SA4C-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3	6556.3
2.5°	5678.9	5859.5	6052.8	6126.5	6355.4	6528.3	6645.3	6897.1	6935.2	6937.7
5°	4562.4	4654.0	4984.6	5139.8	5480.5	5745.0	6027.4	6434.2	6706.4	6726.7
7.5°	3242.6	3496.9	3636.7	4041.1	4460.7	4875.3	5294.9	5767.9	6083.3	6090.9
10°	2609.3	2774.6	3023.8	3326.5	3680.0	4102.1	4661.7	5211.0	5531.4	5610.2
12.5°	2100.6	2390.5	2675.4	2988.2	3257.8	3575.7	4178.4	4910.9	5175.3	5333.0
15°	1617.5	1882.0	2217.6	2583.9	2889.0	3313.8	4000.4	4837.1	5282.2	5335.6
17.5°	1192.8	1429.3	1739.5	2085.4	2543.2	3145.9	4030.9	5211.0	5630.6	5719.6
20°	857.1	994.4	1238.5	1640.4	2222.8	2950.1	4061.4	5589.9	6228.2	6380.8
22.5°	679.0	734.9	895.2	1251.2	1864.2	2744.1	4277.6	6314.7	7049.7	7270.9
25°	590.0	620.6	696.9	986.7	1637.8	2723.7	4623.5	7184.5	8143.2	8303.4
27.5°	569.7	574.7	640.8	905.3	1515.7	2588.9	4755.8	7802.5	8824.8	8987.6
30°	600.2	681.5	686.7	765.5	1289.4	2321.9	4824.4	8400.1	9402.1	9521.6
32.5°	518.8	493.4	511.2	592.6	1134.3	2166.8	4954.1	8921.4	10060.8	10144.7
35°	361.1	379.0	419.7	513.7	991.9	2004.0	4987.1	9496.2	10686.4	10772.9
37.5°	333.1	343.3	376.4	437.4	872.3	1912.4	4941.4	9915.8	11334.9	11454.4
40°	310.2	322.9	340.8	396.7	783.3	1810.8	4877.8	10294.8	11731.7	12026.6
42.5°	292.5	302.7	317.9	379.0	707.0	1709.0	4788.8	10828.8	12087.7	12344.5
45°	272.1	287.4	305.2	368.8	663.8	1640.4	4722.6	10795.7	12293.7	12431.1
47.5°	251.8	277.2	297.5	343.3	651.0	1607.3	4750.6	10671.2	12125.9	12031.8
50°	231.4	264.5	300.1	284.8	620.6	1541.1	4783.7	10841.6	11726.6	11708.7
52.5°	213.6	251.8	279.7	234.0	551.9	1477.6	5104.1	11065.4	12008.9	11772.3
55°	188.2	226.3	223.8	188.2	447.6	1429.3	5355.9	11070.4	11818.2	11907.1
57.5°	170.4	200.9	175.5	157.7	330.6	1195.3	4946.5	9282.6	10116.7	10274.4
60°	157.7	195.8	132.2	124.6	216.1	862.1	4318.3	7189.5	8041.5	8339.1
62.5°	145.0	185.7	104.3	101.8	150.0	612.9	3550.3	6017.2	6930.2	7334.5
65°	127.2	132.2	83.9	78.8	106.8	330.6	2161.7	4142.9	5180.5	5330.5
67.5°	104.3	101.8	68.6	63.6	71.2	160.2	953.7	2075.3	3003.5	3255.3
70°	83.9	83.9	58.5	50.9	50.9	73.8	249.3	826.5	1358.0	1503.0
72.5°	61.1	63.6	45.8	40.7	38.2	35.6	40.7	165.3	356.1	455.2
75°	53.4	55.9	45.8	35.6	28.0	22.9	17.8	15.2	20.4	33.1
77.5°	58.5	58.5	48.4	33.1	25.4	17.8	10.2	5.0	5.0	2.5
80°	73.8	76.3	63.6	43.2	30.5	20.4	12.7	5.0	2.5	2.5
82.5°	78.8	86.5	71.2	53.4	38.2	22.9	12.7	2.5	0.0	0.0
85°	20.4	33.1	55.9	48.4	38.2	22.9	12.7	2.5	0.0	0.0
87.5°	0.0	2.5	7.7	7.7	10.2	10.2	7.7	2.5	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

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