

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: P527924

Luminaire Tested: **GALN-SA3A-727-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8503 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

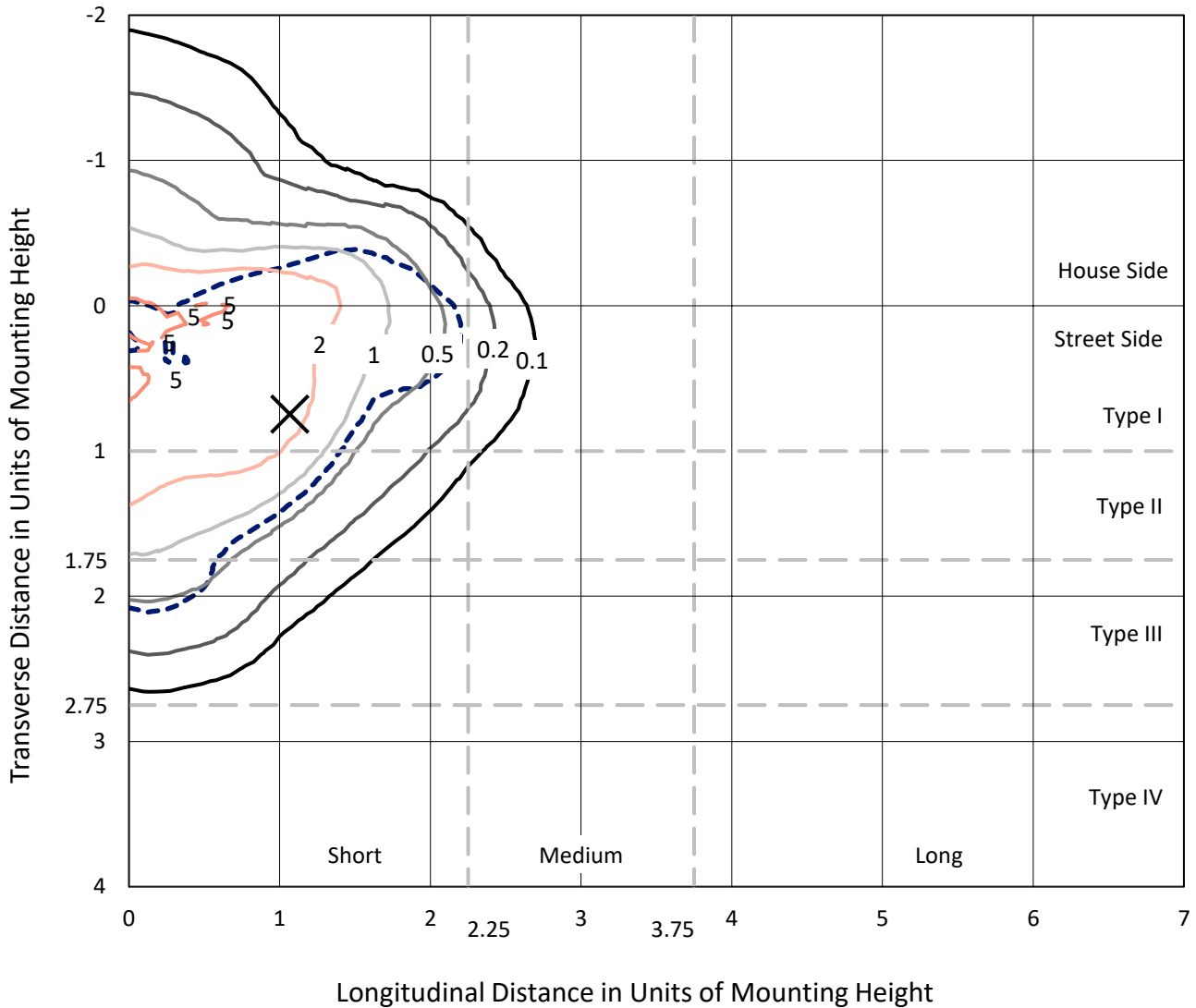
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527924
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Iso-Footcandle Lines of Horizontal Illumination

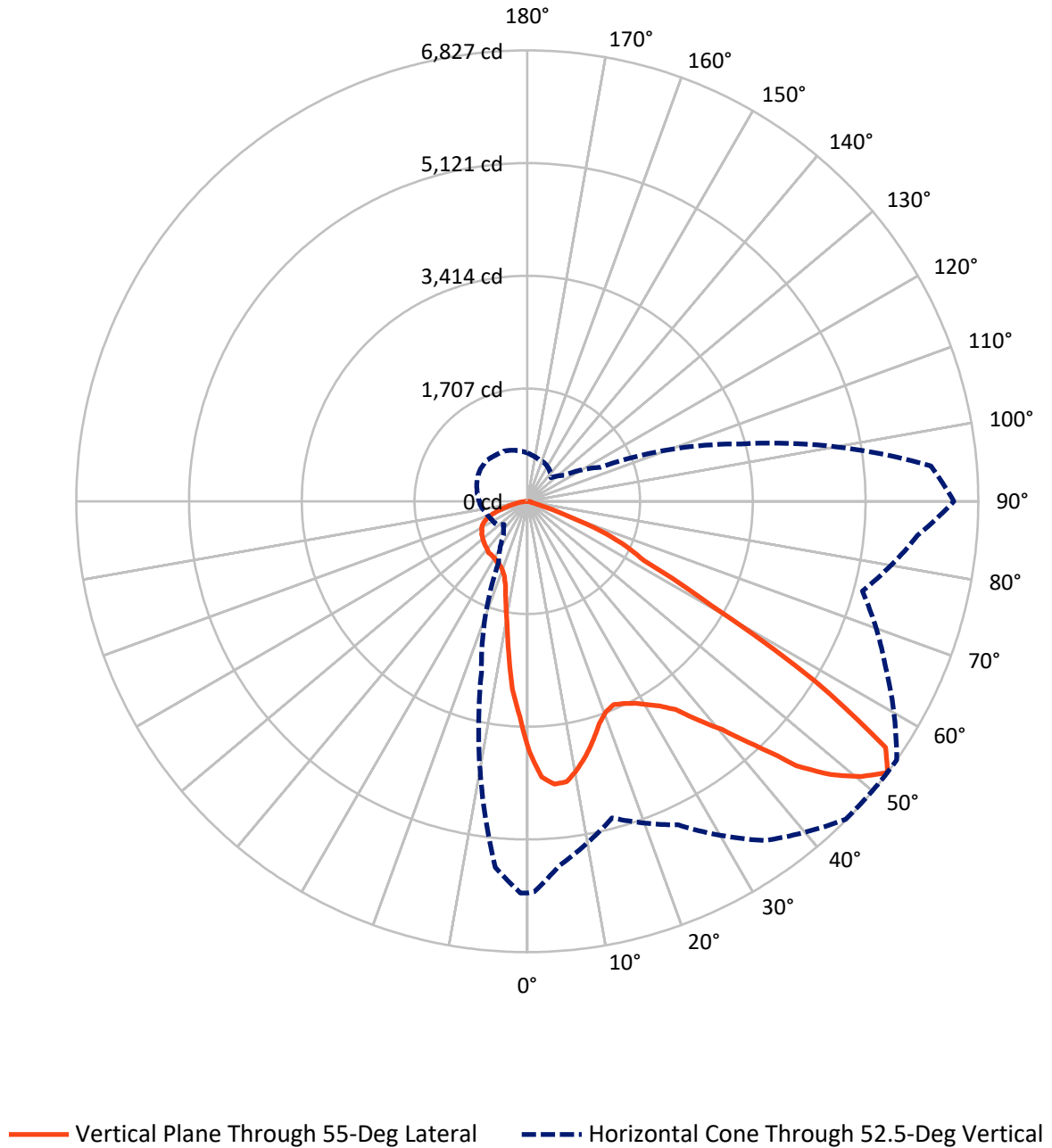
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2593.9 | 0.0 | 2593.9 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 5909.1 | 0.0 | 5909.1 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 8503.0 | 0.0 | 8503.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 289.8 | 3.4 |
| 10°-20° | 624.8 | 7.3 |
| 20°-30° | 947.4 | 11.1 |
| 30°-40° | 1368.8 | 16.1 |
| 40°-50° | 1829.1 | 21.5 |
| 50°-60° | 2041.7 | 24.0 |
| 60°-70° | 1120.0 | 13.2 |
| 70°-80° | 242.1 | 2.8 |
| 80°-90° | 39.2 | 0.5 |
| 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° | 8503.0 | 100.0 |
| 0°-180° | 8503.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P527924

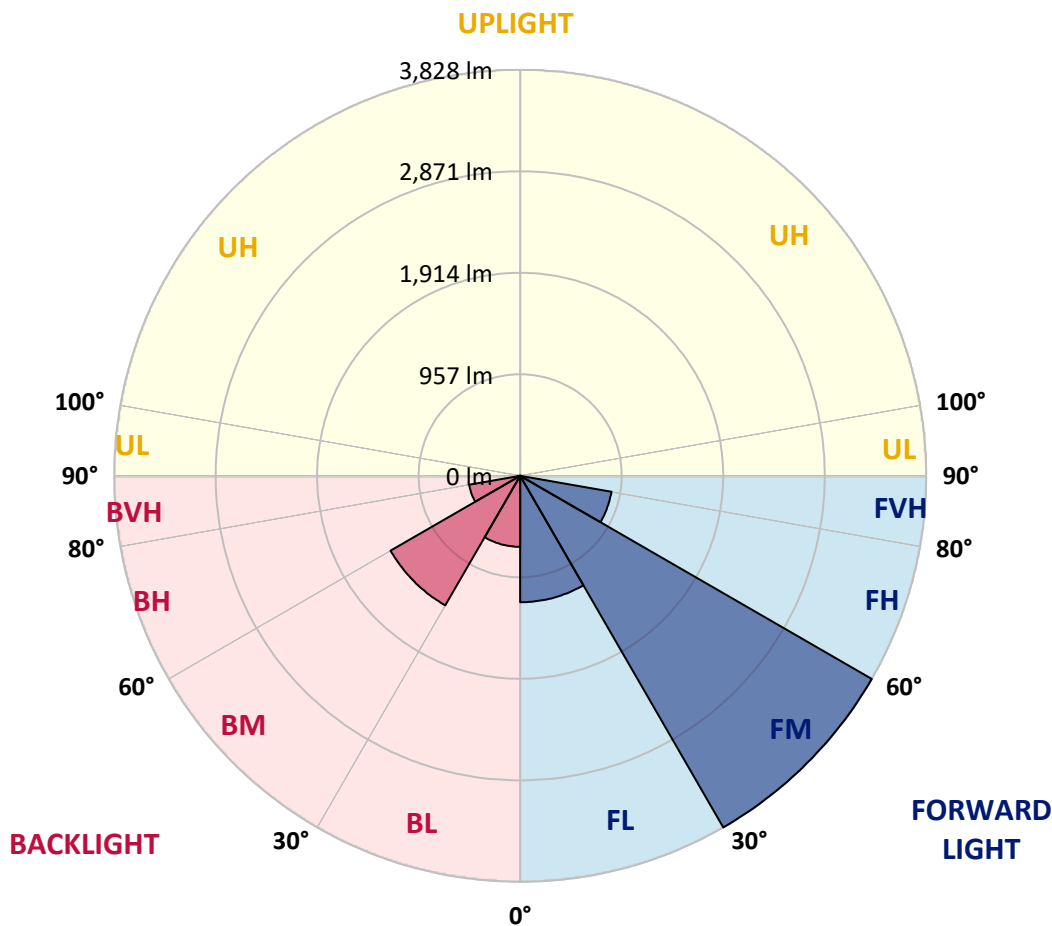
CATALOG NUMBER: GALN-SA3A-727-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1192.3 | 14.0 | | | |
| FM (30°-60°) | 3828.4 | 45.0 | | | |
| FH (60°-80°) | 873.9 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 14.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 669.7 | 7.9 | B2/1000 | | |
| BM (30°-60°) | 1411.3 | 16.6 | B2/2500 | | |
| BH (60°-80°) | 488.2 | 5.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P527924

CATALOG NUMBER: GALN-SA3A-727-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 |
| 2.5° | 3980.5 | 3958.1 | 3978.0 | 4072.3 | 4127.0 | 4164.2 | 4187.8 | 4184.1 | 4094.7 | 4007.8 | 4007.8 |
| 5° | 3863.8 | 3835.2 | 3876.2 | 4089.7 | 4304.5 | 4323.1 | 4354.2 | 4303.3 | 4171.7 | 4012.8 | 3814.1 |
| 7.5° | 3526.1 | 3547.2 | 3615.5 | 3896.0 | 4175.4 | 4315.7 | 4352.9 | 4288.4 | 4074.8 | 3778.1 | 3486.3 |
| 10° | 3234.3 | 3284.0 | 3441.6 | 3744.6 | 4001.6 | 4184.1 | 4225.1 | 4134.4 | 3965.6 | 3601.8 | 3341.1 |
| 12.5° | 3133.7 | 3102.7 | 3277.7 | 3580.7 | 3826.5 | 3924.6 | 3943.2 | 3949.4 | 3835.2 | 3512.4 | 3194.6 |
| 15° | 3121.3 | 3141.2 | 3277.7 | 3507.4 | 3658.9 | 3663.9 | 3694.9 | 3743.3 | 3758.2 | 3573.2 | 3262.8 |
| 17.5° | 3300.1 | 3276.5 | 3416.8 | 3599.3 | 3527.3 | 3455.3 | 3462.7 | 3532.3 | 3655.2 | 3625.4 | 3477.6 |
| 20° | 3564.5 | 3617.9 | 3728.4 | 3709.8 | 3516.1 | 3333.6 | 3334.9 | 3400.7 | 3642.8 | 3841.4 | 3776.9 |
| 22.5° | 4004.1 | 4056.2 | 4138.2 | 3913.4 | 3516.1 | 3297.6 | 3255.4 | 3344.8 | 3722.2 | 4098.4 | 4114.6 |
| 25° | 4405.1 | 4500.7 | 4523.0 | 4258.6 | 3692.4 | 3331.1 | 3303.8 | 3392.0 | 3801.7 | 4349.2 | 4501.9 |
| 27.5° | 4770.1 | 4804.9 | 4903.0 | 4480.8 | 3790.5 | 3353.5 | 3351.0 | 3464.0 | 3902.3 | 4474.6 | 4848.3 |
| 30° | 5058.2 | 5054.4 | 5110.3 | 4621.1 | 3947.0 | 3478.9 | 3358.4 | 3572.0 | 4033.9 | 4682.0 | 5168.7 |
| 32.5° | 5254.3 | 5296.5 | 5414.5 | 4816.0 | 4012.8 | 3598.1 | 3503.7 | 3698.6 | 4194.0 | 4780.0 | 5394.6 |
| 35° | 5599.5 | 5672.7 | 5523.7 | 4924.1 | 4221.3 | 3716.0 | 3605.5 | 3871.2 | 4273.5 | 4886.8 | 5671.5 |
| 37.5° | 5924.8 | 5868.9 | 5717.4 | 4982.4 | 4356.7 | 3934.5 | 3831.5 | 4205.2 | 4520.6 | 5119.0 | 5855.2 |
| 40° | 6133.4 | 6132.1 | 5862.7 | 5029.6 | 4452.3 | 4268.5 | 4262.3 | 4544.1 | 4823.5 | 5265.5 | 6061.3 |
| 42.5° | 6224.0 | 6310.9 | 5922.3 | 5024.6 | 4653.4 | 4673.3 | 4798.7 | 5050.7 | 5038.3 | 5295.3 | 6056.4 |
| 44° | 6348.1 | 6400.3 | 6025.3 | 5035.8 | 4787.5 | 4946.4 | 5241.9 | 5402.1 | 5225.8 | 5279.2 | 6050.2 |
| 45° | 6343.2 | 6346.9 | 5878.8 | 5050.7 | 4901.7 | 5174.9 | 5439.3 | 5710.0 | 5390.9 | 5244.4 | 6132.1 |
| 47.5° | 6197.9 | 6155.7 | 5754.7 | 4940.2 | 5258.0 | 5778.3 | 6022.9 | 6186.7 | 5594.5 | 5169.9 | 6030.3 |
| 50° | 5911.1 | 5862.7 | 5453.0 | 4893.0 | 5332.5 | 6153.2 | 6490.9 | 6550.5 | 5779.5 | 5096.6 | 5929.7 |
| 52.5° | 5931.0 | 5917.3 | 5538.6 | 4963.8 | 5407.0 | 6271.2 | 6812.5 | 6827.4 | 5989.3 | 5250.6 | 5931.0 |
| 55° | 6286.1 | 6238.9 | 5784.5 | 5051.9 | 5352.4 | 6133.4 | 6607.6 | 6581.6 | 5918.6 | 5157.5 | 6040.2 |
| 57.5° | 5752.2 | 5783.2 | 5444.3 | 4703.1 | 4684.4 | 4986.1 | 5194.7 | 5130.2 | 4939.0 | 4654.6 | 5619.3 |
| 60° | 4641.0 | 4729.1 | 4761.4 | 3933.3 | 3534.7 | 3379.6 | 3317.5 | 3203.3 | 3235.5 | 3824.0 | 4936.5 |
| 62.5° | 3980.5 | 3975.5 | 4177.9 | 3565.8 | 2315.5 | 1991.5 | 1961.7 | 1987.8 | 2360.2 | 3764.4 | 4834.7 |
| 65° | 3156.1 | 3240.5 | 3302.6 | 3022.0 | 1832.6 | 1478.7 | 1477.5 | 1642.6 | 2042.4 | 3146.1 | 3903.5 |
| 67.5° | 2003.9 | 2114.4 | 2191.4 | 1933.1 | 1225.4 | 1052.9 | 1024.3 | 1222.9 | 1415.4 | 2063.5 | 2350.3 |
| 70° | 1129.8 | 1182.0 | 1216.7 | 1114.9 | 779.7 | 546.3 | 514.0 | 561.2 | 855.4 | 1335.9 | 1393.0 |
| 72.5° | 435.8 | 459.4 | 506.6 | 510.3 | 294.3 | 176.3 | 142.8 | 171.3 | 360.1 | 528.9 | 504.1 |
| 75° | 67.0 | 72.0 | 101.8 | 121.7 | 84.4 | 64.6 | 68.3 | 70.8 | 100.6 | 136.6 | 114.2 |
| 77.5° | 32.3 | 32.3 | 31.0 | 36.0 | 42.2 | 45.9 | 49.7 | 54.6 | 59.6 | 65.8 | 63.3 |
| 80° | 21.1 | 21.1 | 21.1 | 24.8 | 31.0 | 37.2 | 42.2 | 44.7 | 47.2 | 52.1 | 49.7 |
| 82.5° | 13.7 | 13.7 | 13.7 | 18.6 | 24.8 | 31.0 | 33.5 | 39.7 | 44.7 | 52.1 | 48.4 |
| 85° | 7.4 | 7.4 | 7.4 | 12.4 | 18.6 | 26.1 | 24.8 | 19.9 | 11.2 | 1.2 | 2.5 |
| 87.5° | 2.5 | 2.5 | 2.5 | 2.5 | 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: P527924

CATALOG NUMBER: GALN-SA3A-727-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 |
| 2.5° | 3903.5 | 3846.4 | 3841.4 | 3724.7 | 3620.4 | 3569.5 | 3528.5 | 3414.3 | 3439.1 | 3373.3 | 3372.1 |
| 5° | 3714.8 | 3598.1 | 3409.4 | 3254.2 | 3099.0 | 3067.9 | 2932.6 | 2814.6 | 2818.4 | 2733.9 | 2748.8 |
| 7.5° | 3375.8 | 3295.1 | 3065.4 | 2822.1 | 2616.0 | 2469.5 | 2341.6 | 2264.6 | 2166.5 | 2133.0 | 2115.6 |
| 10° | 3161.0 | 3061.7 | 2803.5 | 2498.0 | 2267.1 | 2188.9 | 2066.0 | 1997.7 | 1897.1 | 1847.5 | 1812.7 |
| 12.5° | 3066.7 | 2921.4 | 2598.6 | 2288.2 | 2134.3 | 2053.6 | 1949.3 | 1825.1 | 1705.9 | 1660.0 | 1596.7 |
| 15° | 3076.6 | 2902.8 | 2539.0 | 2203.8 | 2018.8 | 1862.4 | 1769.2 | 1631.4 | 1509.7 | 1429.0 | 1383.1 |
| 17.5° | 3226.8 | 3015.8 | 2566.3 | 2139.2 | 1873.5 | 1677.4 | 1494.9 | 1345.9 | 1249.0 | 1188.2 | 1173.3 |
| 20° | 3581.9 | 3295.1 | 2612.3 | 2034.9 | 1728.3 | 1483.7 | 1259.0 | 1103.8 | 1029.3 | 1028.0 | 1029.3 |
| 22.5° | 3877.4 | 3593.1 | 2705.4 | 1972.9 | 1583.0 | 1235.4 | 1011.9 | 962.2 | 947.3 | 978.4 | 982.1 |
| 25° | 4276.0 | 3928.3 | 2865.5 | 1940.6 | 1448.9 | 1052.9 | 915.0 | 896.4 | 895.2 | 934.9 | 936.1 |
| 27.5° | 4684.4 | 4221.3 | 2961.1 | 1846.2 | 1312.3 | 958.5 | 856.7 | 853.0 | 872.8 | 915.0 | 911.3 |
| 30° | 4962.6 | 4467.2 | 3133.7 | 1733.2 | 1150.9 | 875.3 | 833.1 | 838.1 | 865.4 | 897.7 | 902.6 |
| 32.5° | 5286.6 | 4709.3 | 3178.4 | 1671.2 | 1051.6 | 805.8 | 776.0 | 787.2 | 821.9 | 872.8 | 900.1 |
| 35° | 5657.8 | 4880.6 | 3246.7 | 1586.7 | 1014.4 | 752.4 | 737.5 | 749.9 | 792.1 | 825.6 | 855.4 |
| 37.5° | 5932.2 | 5183.6 | 3259.1 | 1520.9 | 973.4 | 722.6 | 699.0 | 740.0 | 764.8 | 812.0 | 826.9 |
| 40° | 6135.8 | 5403.3 | 3291.4 | 1480.0 | 941.1 | 684.1 | 684.1 | 711.4 | 744.9 | 788.4 | 818.2 |
| 42.5° | 6266.2 | 5563.5 | 3315.0 | 1442.7 | 879.0 | 672.9 | 666.7 | 694.0 | 738.7 | 780.9 | 794.6 |
| 44° | 6345.7 | 5631.8 | 3291.4 | 1407.9 | 861.6 | 659.3 | 659.3 | 682.9 | 717.6 | 767.3 | 783.4 |
| 45° | 6365.5 | 5717.4 | 3239.3 | 1406.7 | 840.5 | 643.1 | 640.7 | 685.3 | 708.9 | 769.8 | 779.7 |
| 47.5° | 6442.5 | 5823.0 | 3245.5 | 1367.0 | 789.6 | 604.6 | 648.1 | 668.0 | 689.1 | 742.5 | 776.0 |
| 50° | 6440.0 | 5888.8 | 3231.8 | 1308.6 | 752.4 | 561.2 | 633.2 | 655.5 | 676.7 | 731.3 | 744.9 |
| 52.5° | 6457.4 | 6134.6 | 3357.2 | 1215.5 | 685.3 | 505.3 | 583.5 | 633.2 | 659.3 | 705.2 | 733.8 |
| 55° | 6448.7 | 6274.9 | 3481.4 | 1146.0 | 591.0 | 471.8 | 541.3 | 599.7 | 636.9 | 685.3 | 699.0 |
| 57.5° | 5890.0 | 5546.1 | 3221.9 | 1015.6 | 489.2 | 432.1 | 481.7 | 564.9 | 612.1 | 661.8 | 679.1 |
| 60° | 4812.3 | 4274.7 | 2657.0 | 747.4 | 402.3 | 397.3 | 448.2 | 553.7 | 573.6 | 617.1 | 646.9 |
| 62.5° | 4447.3 | 3749.5 | 2106.9 | 571.1 | 343.9 | 363.8 | 413.4 | 500.4 | 531.4 | 584.8 | 612.1 |
| 65° | 3480.1 | 2490.6 | 1304.9 | 386.1 | 302.9 | 326.5 | 373.7 | 438.3 | 489.2 | 538.8 | 571.1 |
| 67.5° | 2061.0 | 1360.8 | 645.6 | 270.7 | 264.5 | 289.3 | 337.7 | 386.1 | 444.5 | 499.1 | 515.3 |
| 70° | 1122.4 | 669.2 | 275.6 | 206.1 | 224.7 | 247.1 | 294.3 | 327.8 | 383.6 | 425.9 | 453.2 |
| 72.5° | 360.1 | 203.6 | 137.8 | 152.7 | 171.3 | 197.4 | 226.0 | 266.9 | 306.7 | 331.5 | 353.8 |
| 75° | 86.9 | 85.7 | 98.1 | 106.8 | 124.2 | 144.0 | 167.6 | 188.7 | 219.8 | 243.3 | 263.2 |
| 77.5° | 60.8 | 65.8 | 75.7 | 88.2 | 94.4 | 101.8 | 116.7 | 132.8 | 146.5 | 163.9 | 176.3 |
| 80° | 47.2 | 50.9 | 58.4 | 64.6 | 70.8 | 77.0 | 84.4 | 90.6 | 99.3 | 110.5 | 116.7 |
| 82.5° | 44.7 | 47.2 | 54.6 | 58.4 | 55.9 | 54.6 | 59.6 | 62.1 | 63.3 | 67.0 | 70.8 |
| 85° | 3.7 | 0.0 | 2.5 | 8.7 | 21.1 | 31.0 | 33.5 | 33.5 | 32.3 | 34.8 | 34.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 5.0 | 3.7 |
| 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: P527924

CATALOG NUMBER: GALN-SA3A-727-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 |
| 2.5° | 3357.2 | 3315.0 | 3331.1 | 3351.0 | 3322.4 | 3256.6 | 3274.0 | 3266.6 | 3333.6 | 3328.6 | 3395.7 |
| 5° | 2814.6 | 2748.8 | 2756.3 | 2853.1 | 2822.1 | 2855.6 | 2788.6 | 2779.9 | 2792.3 | 2798.5 | 2809.7 |
| 7.5° | 2154.1 | 2145.4 | 2219.9 | 2301.9 | 2340.4 | 2300.6 | 2234.8 | 2219.9 | 2206.3 | 2179.0 | 2241.0 |
| 10° | 1758.1 | 1760.5 | 1755.6 | 1817.7 | 1861.1 | 1852.4 | 1812.7 | 1807.7 | 1781.7 | 1771.7 | 1806.5 |
| 12.5° | 1569.3 | 1535.8 | 1519.7 | 1499.8 | 1533.3 | 1555.7 | 1538.3 | 1525.9 | 1527.1 | 1539.5 | 1544.5 |
| 15° | 1386.8 | 1365.7 | 1331.0 | 1308.6 | 1324.8 | 1313.6 | 1307.4 | 1332.2 | 1326.0 | 1323.5 | 1353.3 |
| 17.5° | 1182.0 | 1199.4 | 1196.9 | 1172.0 | 1193.1 | 1184.5 | 1183.2 | 1165.8 | 1142.2 | 1124.9 | 1134.8 |
| 20° | 1046.6 | 1078.9 | 1103.8 | 1105.0 | 1116.2 | 1114.9 | 1096.3 | 1042.9 | 1025.5 | 1021.8 | 1024.3 |
| 22.5° | 998.2 | 1015.6 | 1045.4 | 1087.6 | 1087.6 | 1067.8 | 1045.4 | 983.3 | 967.2 | 949.8 | 942.4 |
| 25° | 959.7 | 993.3 | 1031.7 | 1036.7 | 1056.6 | 1038.0 | 1001.9 | 970.9 | 937.4 | 913.8 | 913.8 |
| 27.5° | 939.9 | 977.1 | 1005.7 | 1014.4 | 1041.7 | 1026.8 | 989.5 | 949.8 | 910.1 | 908.8 | 887.7 |
| 30° | 931.2 | 965.9 | 984.6 | 1005.7 | 1018.1 | 994.5 | 983.3 | 941.1 | 901.4 | 891.4 | 856.7 |
| 32.5° | 905.1 | 954.8 | 989.5 | 984.6 | 994.5 | 984.6 | 968.4 | 933.7 | 889.0 | 866.6 | 862.9 |
| 35° | 875.3 | 925.0 | 962.2 | 988.3 | 994.5 | 973.4 | 963.5 | 916.3 | 855.4 | 844.3 | 805.8 |
| 37.5° | 859.2 | 889.0 | 934.9 | 977.1 | 985.8 | 974.6 | 941.1 | 892.7 | 831.9 | 819.4 | 785.9 |
| 40° | 839.3 | 877.8 | 913.8 | 948.6 | 974.6 | 947.3 | 908.8 | 861.6 | 834.3 | 797.1 | 787.2 |
| 42.5° | 824.4 | 867.9 | 897.7 | 936.1 | 965.9 | 929.9 | 885.2 | 853.0 | 814.5 | 789.6 | 761.1 |
| 44° | 819.4 | 859.2 | 879.0 | 926.2 | 951.0 | 923.7 | 886.5 | 853.0 | 808.3 | 785.9 | 761.1 |
| 45° | 802.1 | 856.7 | 877.8 | 920.0 | 941.1 | 918.8 | 871.6 | 838.1 | 805.8 | 778.5 | 752.4 |
| 47.5° | 784.7 | 821.9 | 857.9 | 891.4 | 906.3 | 898.9 | 859.2 | 818.2 | 779.7 | 763.6 | 738.7 |
| 50° | 779.7 | 817.0 | 850.5 | 881.5 | 898.9 | 884.0 | 848.0 | 808.3 | 763.6 | 737.5 | 716.4 |
| 52.5° | 754.9 | 800.8 | 838.1 | 848.0 | 870.3 | 861.6 | 834.3 | 790.9 | 748.7 | 726.3 | 708.9 |
| 55° | 718.9 | 767.3 | 818.2 | 830.6 | 862.9 | 849.2 | 808.3 | 767.3 | 731.3 | 697.8 | 675.4 |
| 57.5° | 705.2 | 752.4 | 802.1 | 818.2 | 838.1 | 815.7 | 805.8 | 762.3 | 705.2 | 687.8 | 653.1 |
| 60° | 670.4 | 730.0 | 771.0 | 808.3 | 809.5 | 803.3 | 785.9 | 736.3 | 689.1 | 656.8 | 632.0 |
| 62.5° | 643.1 | 699.0 | 731.3 | 766.0 | 787.2 | 769.8 | 752.4 | 706.5 | 655.5 | 619.5 | 591.0 |
| 65° | 603.4 | 654.3 | 681.6 | 702.7 | 726.3 | 723.8 | 694.0 | 660.5 | 607.1 | 578.6 | 551.3 |
| 67.5° | 542.6 | 587.3 | 624.5 | 644.4 | 659.3 | 655.5 | 633.2 | 609.6 | 555.0 | 526.4 | 506.6 |
| 70° | 469.3 | 515.3 | 538.8 | 550.0 | 564.9 | 572.4 | 555.0 | 543.8 | 495.4 | 458.1 | 439.5 |
| 72.5° | 377.4 | 407.2 | 442.0 | 451.9 | 458.1 | 463.1 | 463.1 | 453.2 | 403.5 | 388.6 | 356.3 |
| 75° | 278.1 | 301.7 | 327.8 | 327.8 | 338.9 | 340.2 | 342.7 | 336.5 | 299.2 | 279.4 | 271.9 |
| 77.5° | 188.7 | 206.1 | 227.2 | 235.9 | 243.3 | 242.1 | 240.9 | 223.5 | 203.6 | 194.9 | 187.5 |
| 80° | 122.9 | 140.3 | 150.2 | 161.4 | 168.9 | 167.6 | 170.1 | 157.7 | 149.0 | 134.1 | 136.6 |
| 82.5° | 73.3 | 86.9 | 96.8 | 110.5 | 110.5 | 114.2 | 114.2 | 110.5 | 101.8 | 94.4 | 94.4 |
| 85° | 34.8 | 45.9 | 52.1 | 60.8 | 65.8 | 67.0 | 59.6 | 50.9 | 42.2 | 38.5 | 42.2 |
| 87.5° | 6.2 | 8.7 | 12.4 | 11.2 | 13.7 | 12.4 | 12.4 | 12.4 | 12.4 | 9.9 | 11.2 |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 | 3793.0 |
| 2.5° | 3370.9 | 3432.9 | 3476.4 | 3548.4 | 3672.6 | 3771.9 | 3873.7 | 3949.4 | 3958.1 | 3980.5 |
| 5° | 2850.6 | 2884.2 | 2994.7 | 3138.7 | 3240.5 | 3408.1 | 3516.1 | 3712.3 | 3785.5 | 3863.8 |
| 7.5° | 2226.1 | 2280.8 | 2428.5 | 2525.4 | 2748.8 | 2958.7 | 3175.9 | 3418.0 | 3514.9 | 3526.1 |
| 10° | 1877.3 | 1956.7 | 2057.3 | 2212.5 | 2334.2 | 2567.6 | 2838.2 | 3107.6 | 3215.7 | 3234.3 |
| 12.5° | 1648.8 | 1750.6 | 1884.7 | 1996.4 | 2113.2 | 2316.8 | 2576.3 | 2909.0 | 3049.3 | 3133.7 |
| 15° | 1429.0 | 1534.6 | 1682.3 | 1837.5 | 1940.6 | 2183.9 | 2489.3 | 2864.3 | 3046.8 | 3121.3 |
| 17.5° | 1203.1 | 1301.2 | 1422.8 | 1590.5 | 1797.8 | 2070.9 | 2475.7 | 3013.3 | 3213.2 | 3300.1 |
| 20° | 1009.4 | 1064.0 | 1205.6 | 1378.1 | 1637.6 | 1955.5 | 2480.7 | 3233.0 | 3526.1 | 3564.5 |
| 22.5° | 933.7 | 946.1 | 1001.9 | 1160.9 | 1445.2 | 1837.5 | 2568.8 | 3544.7 | 3877.4 | 4004.1 |
| 25° | 875.3 | 872.8 | 887.7 | 994.5 | 1304.9 | 1791.6 | 2655.7 | 3831.5 | 4267.3 | 4405.1 |
| 27.5° | 843.0 | 818.2 | 819.4 | 920.0 | 1205.6 | 1717.1 | 2767.5 | 4160.5 | 4709.3 | 4770.1 |
| 30° | 826.9 | 821.9 | 807.0 | 848.0 | 1097.5 | 1605.3 | 2786.1 | 4484.6 | 4970.0 | 5058.2 |
| 32.5° | 817.0 | 768.5 | 749.9 | 764.8 | 995.7 | 1483.7 | 2855.6 | 4698.1 | 5292.8 | 5254.3 |
| 35° | 767.3 | 723.8 | 711.4 | 726.3 | 923.7 | 1415.4 | 2809.7 | 4884.3 | 5534.9 | 5599.5 |
| 37.5° | 748.7 | 710.2 | 685.3 | 672.9 | 856.7 | 1358.3 | 2786.1 | 5171.1 | 5769.6 | 5924.8 |
| 40° | 731.3 | 690.3 | 660.5 | 648.1 | 804.5 | 1282.5 | 2778.6 | 5392.1 | 6040.2 | 6133.4 |
| 42.5° | 711.4 | 685.3 | 651.8 | 629.5 | 741.2 | 1206.8 | 2693.0 | 5460.4 | 6123.4 | 6224.0 |
| 44° | 705.2 | 665.5 | 630.7 | 623.3 | 716.4 | 1168.3 | 2675.6 | 5522.5 | 6195.4 | 6348.1 |
| 45° | 699.0 | 661.8 | 622.0 | 612.1 | 707.7 | 1147.2 | 2652.0 | 5537.4 | 6314.6 | 6343.2 |
| 47.5° | 681.6 | 658.0 | 619.5 | 592.2 | 689.1 | 1101.3 | 2581.2 | 5453.0 | 6193.0 | 6197.9 |
| 50° | 668.0 | 640.7 | 600.9 | 547.5 | 664.2 | 1062.8 | 2613.5 | 5421.9 | 5899.9 | 5911.1 |
| 52.5° | 653.1 | 612.1 | 589.7 | 497.9 | 623.3 | 1030.5 | 2681.8 | 5562.2 | 5933.5 | 5931.0 |
| 55° | 635.7 | 591.0 | 536.4 | 455.7 | 555.0 | 989.5 | 2846.9 | 5839.1 | 6243.9 | 6286.1 |
| 57.5° | 608.4 | 569.9 | 491.7 | 418.4 | 476.8 | 911.3 | 2793.5 | 5309.0 | 5744.7 | 5752.2 |
| 60° | 572.4 | 536.4 | 445.7 | 389.9 | 391.1 | 718.9 | 2498.0 | 4136.9 | 4533.0 | 4641.0 |
| 62.5° | 537.6 | 517.7 | 407.2 | 348.9 | 332.7 | 572.4 | 2111.9 | 3437.9 | 3891.1 | 3980.5 |
| 65° | 496.6 | 448.2 | 373.7 | 317.8 | 285.6 | 401.0 | 1496.1 | 2568.8 | 3035.6 | 3156.1 |
| 67.5° | 444.5 | 392.3 | 329.0 | 279.4 | 244.6 | 268.2 | 772.3 | 1460.1 | 1933.1 | 2003.9 |
| 70° | 388.6 | 340.2 | 276.9 | 235.9 | 197.4 | 185.0 | 340.2 | 696.5 | 1056.6 | 1129.8 |
| 72.5° | 319.1 | 274.4 | 221.0 | 186.2 | 147.7 | 127.9 | 114.2 | 186.2 | 375.0 | 435.8 |
| 75° | 230.9 | 199.9 | 166.4 | 132.8 | 104.3 | 81.9 | 67.0 | 55.9 | 62.1 | 67.0 |
| 77.5° | 170.1 | 145.3 | 122.9 | 94.4 | 73.3 | 58.4 | 45.9 | 34.8 | 33.5 | 32.3 |
| 80° | 132.8 | 117.9 | 98.1 | 75.7 | 57.1 | 43.5 | 32.3 | 23.6 | 21.1 | 21.1 |
| 82.5° | 104.3 | 96.8 | 80.7 | 62.1 | 47.2 | 34.8 | 23.6 | 16.1 | 13.7 | 13.7 |
| 85° | 39.7 | 39.7 | 58.4 | 50.9 | 36.0 | 24.8 | 16.1 | 8.7 | 7.4 | 7.4 |
| 87.5° | 9.9 | 9.9 | 9.9 | 9.9 | 8.7 | 7.4 | 7.4 | 3.7 | 2.5 | 2.5 |
| 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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