

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: P456765

Luminaire Tested: **GALN-SA8A-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27112 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

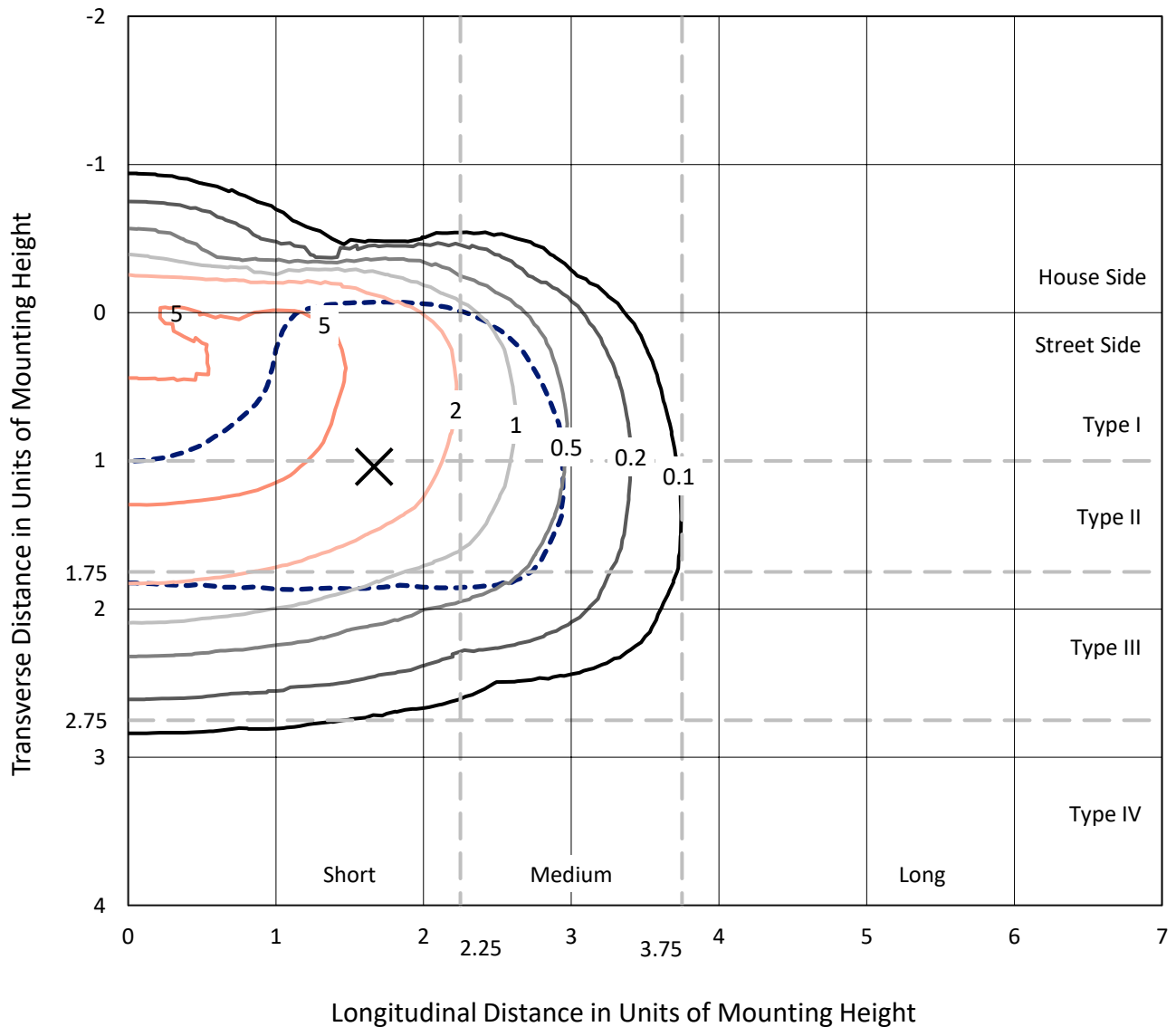
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

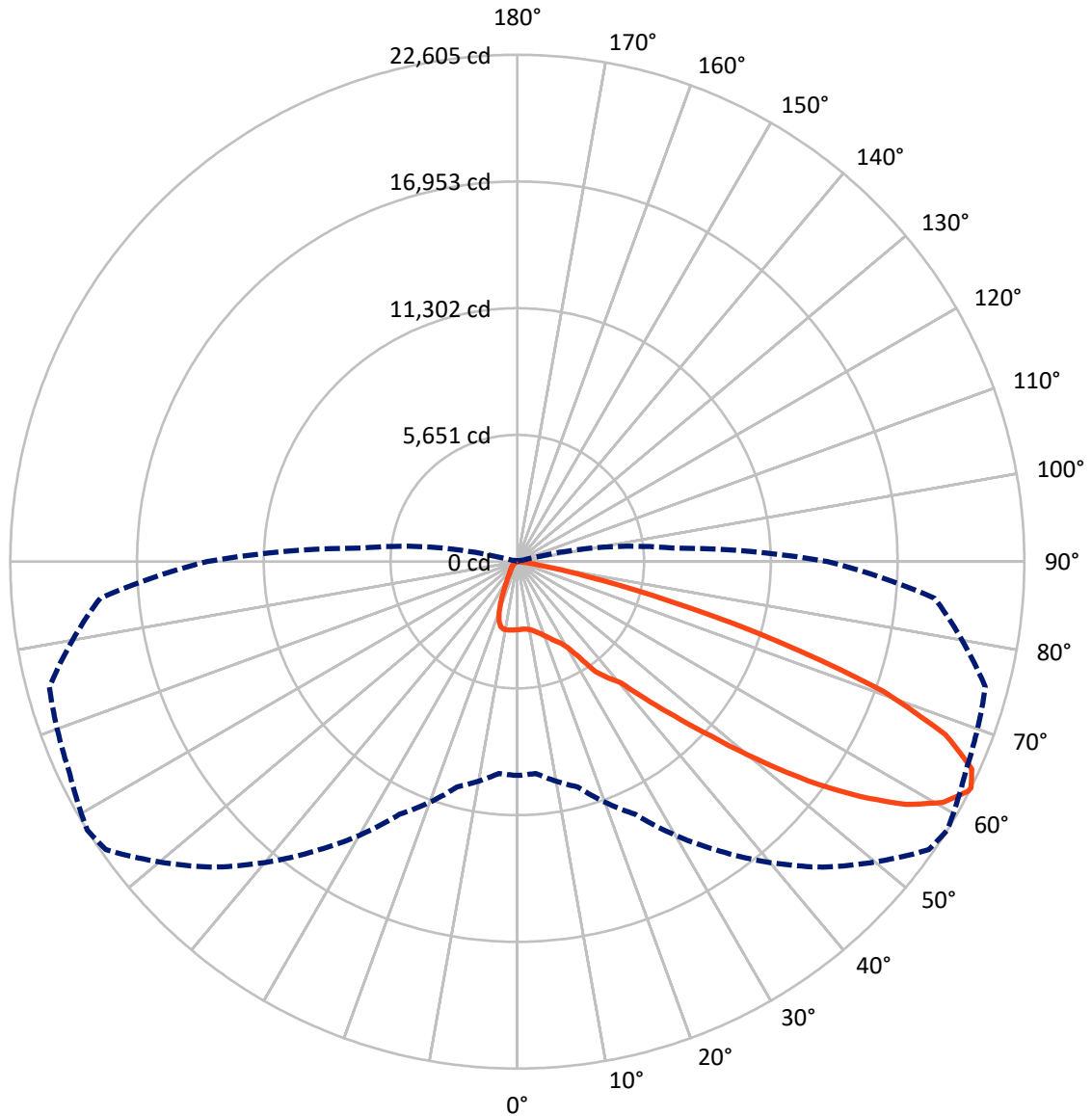
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2807.3 | 0.0 | 2807.3 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 24304.7 | 0.0 | 24304.7 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 27112.0 | 0.0 | 27112.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 284.1 | 1.0 |
| 10°-20° | 773.9 | 2.9 |
| 20°-30° | 1343.2 | 5.0 |
| 30°-40° | 2468.2 | 9.1 |
| 40°-50° | 4646.3 | 17.1 |
| 50°-60° | 7947.2 | 29.3 |
| 60°-70° | 7609.4 | 28.1 |
| 70°-80° | 1940.4 | 7.2 |
| 80°-90° | 99.2 | 0.4 |
| 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° | 27112.0 | 100.0 |
| 0°-180° | 27112.0 | 100.0 |

Coefficient of Utilization



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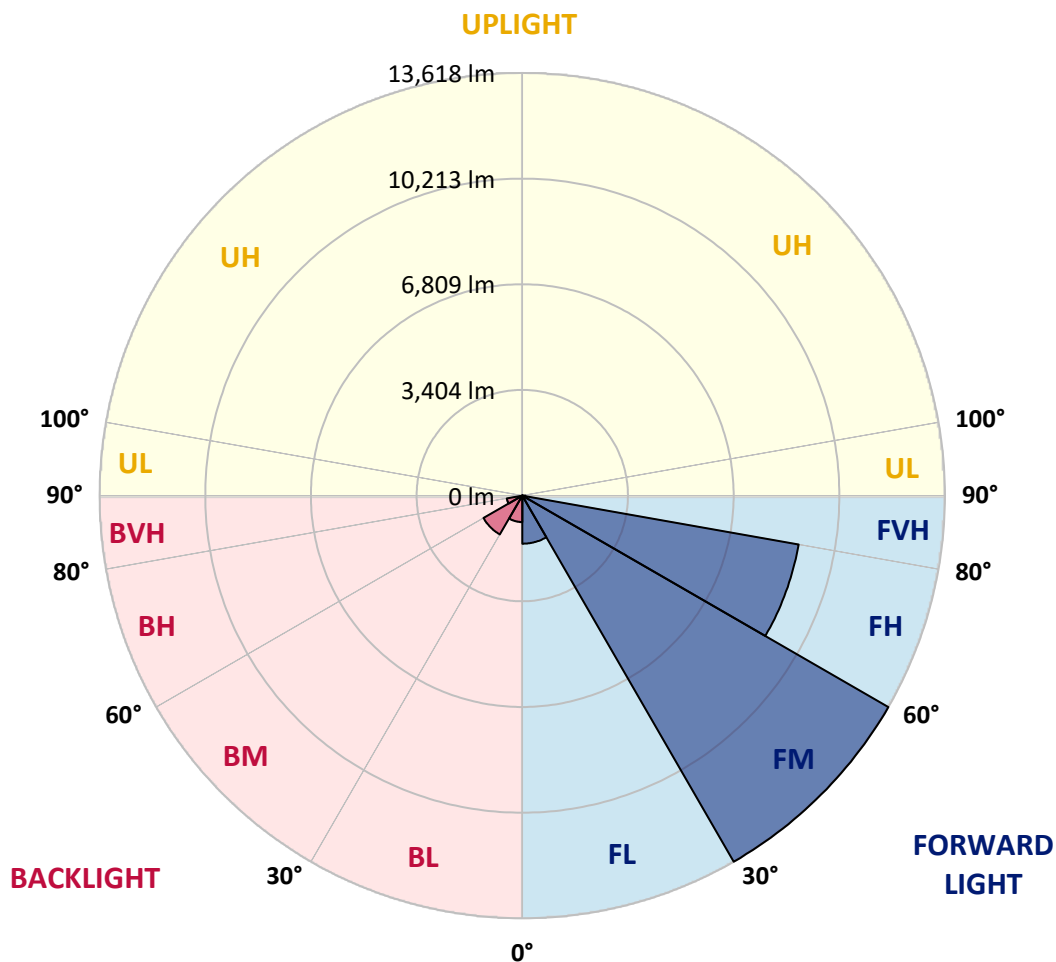
CATALOG NUMBER: GALN-SA8A-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1549.8 | 5.7 | | | |
| FM | (30°-60°) | 13617.8 | 50.2 | | | |
| FH | (60°-80°) | 9041.7 | 33.3 | | | G4/12000 |
| FVH | (80°-90°) | 95.4 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 851.4 | 3.1 | B2/1000 | | |
| BM | (30°-60°) | 1443.9 | 5.3 | B2/2500 | | |
| BH | (60°-80°) | 508.2 | 1.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 3.8 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 |
| 2.5° | 2959.8 | 2970.0 | 2980.2 | 2984.3 | 2998.6 | 3012.8 | 3023.0 | 3021.0 | 3037.3 | 3045.5 | 3045.5 |
| 5° | 2841.4 | 2841.4 | 2867.9 | 2892.4 | 2933.2 | 2974.1 | 3012.8 | 3021.0 | 3051.6 | 3080.2 | 3090.4 |
| 7.5° | 2741.4 | 2747.5 | 2767.9 | 2812.8 | 2867.9 | 2939.4 | 3016.9 | 3035.3 | 3088.4 | 3151.6 | 3178.2 |
| 10° | 2694.4 | 2698.5 | 2725.0 | 2772.0 | 2841.4 | 2939.4 | 3047.5 | 3082.2 | 3163.9 | 3263.9 | 3300.7 |
| 12.5° | 2684.2 | 2690.3 | 2716.9 | 2769.9 | 2849.5 | 2967.9 | 3114.9 | 3151.6 | 3270.0 | 3398.6 | 3453.7 |
| 15° | 2702.6 | 2706.7 | 2733.2 | 2790.3 | 2878.1 | 3019.0 | 3204.7 | 3255.7 | 3396.6 | 3545.6 | 3617.0 |
| 17.5° | 2767.9 | 2763.8 | 2782.2 | 2829.1 | 2927.1 | 3082.2 | 3312.9 | 3374.1 | 3539.5 | 3743.6 | 3790.5 |
| 20° | 3045.5 | 3019.0 | 3002.6 | 2961.8 | 3000.6 | 3172.1 | 3443.5 | 3533.4 | 3737.5 | 3945.7 | 3978.3 |
| 22.5° | 3643.6 | 3584.4 | 3468.0 | 3308.8 | 3186.3 | 3294.5 | 3600.7 | 3704.8 | 3968.1 | 4172.3 | 4172.3 |
| 25° | 4405.0 | 4329.4 | 4213.1 | 3866.1 | 3566.0 | 3496.6 | 3778.3 | 3908.9 | 4219.2 | 4425.4 | 4358.0 |
| 27.5° | 5358.2 | 5299.0 | 5072.4 | 4668.3 | 4209.0 | 3849.7 | 3984.5 | 4104.9 | 4441.7 | 4690.7 | 4549.9 |
| 30° | 6133.9 | 6105.3 | 5919.5 | 5558.2 | 5052.0 | 4527.4 | 4368.2 | 4447.8 | 4737.7 | 5025.5 | 4880.6 |
| 32.5° | 6789.1 | 6789.1 | 6599.3 | 6262.5 | 5788.9 | 5323.5 | 5019.4 | 5076.5 | 5354.1 | 5686.8 | 5417.4 |
| 35° | 7509.6 | 7485.2 | 7332.1 | 7011.6 | 6480.9 | 6070.6 | 5946.1 | 6023.6 | 6274.7 | 6521.7 | 5858.3 |
| 37.5° | 8266.9 | 8258.8 | 8099.6 | 7789.3 | 7356.6 | 6840.1 | 6548.2 | 6568.6 | 6697.2 | 6848.3 | 6374.7 |
| 40° | 9089.6 | 9101.8 | 8893.6 | 8701.7 | 8293.5 | 7764.8 | 7205.5 | 7076.9 | 7197.3 | 7624.0 | 7328.0 |
| 42.5° | 10061.2 | 10032.6 | 9942.8 | 9681.5 | 9352.9 | 9036.5 | 8364.9 | 8318.0 | 8424.1 | 8881.3 | 8560.9 |
| 45° | 11190.0 | 11230.8 | 11075.7 | 10930.7 | 10710.3 | 10447.0 | 9885.6 | 9804.0 | 9920.3 | 10630.7 | 10175.5 |
| 47.5° | 12320.8 | 12282.0 | 12382.0 | 12355.5 | 12473.9 | 12277.9 | 11781.9 | 11614.5 | 11894.2 | 12567.8 | 11898.3 |
| 50° | 13182.2 | 13225.1 | 13433.3 | 13737.4 | 14245.7 | 14355.9 | 13880.3 | 13823.1 | 13947.7 | 14380.4 | 13439.4 |
| 52.5° | 13741.5 | 13884.4 | 14211.0 | 14992.8 | 15909.3 | 16621.6 | 16260.4 | 16229.7 | 16178.7 | 16295.1 | 14913.1 |
| 55° | 14106.9 | 14251.8 | 14678.4 | 15829.7 | 17407.5 | 18564.9 | 18583.3 | 18452.6 | 18115.8 | 18032.1 | 16291.0 |
| 57.5° | 13882.3 | 13910.9 | 14519.2 | 16058.3 | 18238.3 | 19950.9 | 20551.0 | 20420.4 | 19797.8 | 19481.4 | 17507.5 |
| 60° | 12478.0 | 12537.2 | 13384.3 | 15192.8 | 17877.0 | 20404.0 | 21855.3 | 21796.1 | 21114.4 | 20757.2 | 18454.7 |
| 62.5° | 9989.7 | 10161.2 | 11032.8 | 13049.5 | 16197.1 | 19640.6 | 22384.0 | 22551.4 | 22020.7 | 21528.7 | 18752.7 |
| 63° | 9532.5 | 9477.4 | 10398.0 | 12424.9 | 15752.1 | 19263.0 | 22392.2 | 22604.5 | 22061.5 | 21602.2 | 18671.0 |
| 65° | 7056.5 | 7221.8 | 7819.9 | 9797.9 | 13108.7 | 17505.5 | 21888.0 | 22263.6 | 21910.4 | 21277.7 | 17766.8 |
| 67.5° | 3962.0 | 3953.8 | 4615.2 | 6411.5 | 9175.3 | 13731.3 | 19791.7 | 20585.7 | 20512.2 | 19093.6 | 14727.4 |
| 70° | 1939.2 | 1969.8 | 2241.3 | 3323.1 | 5321.5 | 9473.3 | 16446.1 | 17303.4 | 17330.0 | 14996.8 | 10183.6 |
| 72.5° | 877.7 | 892.0 | 1085.9 | 1618.7 | 2735.2 | 5043.9 | 11332.9 | 12151.4 | 12000.3 | 9557.0 | 5623.6 |
| 75° | 463.4 | 494.0 | 598.1 | 814.4 | 1318.6 | 2080.0 | 6164.5 | 6956.5 | 6640.1 | 4366.2 | 2069.8 |
| 77.5° | 342.9 | 353.1 | 406.2 | 518.5 | 706.3 | 810.4 | 2659.7 | 3163.9 | 2963.9 | 1579.9 | 685.8 |
| 80° | 251.1 | 259.2 | 302.1 | 367.4 | 445.0 | 412.3 | 1002.2 | 1149.2 | 1030.8 | 536.8 | 210.2 |
| 82.5° | 153.1 | 155.1 | 220.5 | 273.5 | 279.6 | 230.7 | 330.7 | 355.2 | 371.5 | 302.1 | 114.3 |
| 85° | 55.1 | 69.4 | 149.0 | 198.0 | 165.3 | 116.3 | 138.8 | 153.1 | 167.4 | 191.9 | 67.4 |
| 87.5° | 6.1 | 8.2 | 71.4 | 95.9 | 46.9 | 42.9 | 51.0 | 57.2 | 61.2 | 71.4 | 32.7 |
| 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-SA8A-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 | 3035.3 |
| 2.5° | 3053.7 | 3061.8 | 3055.7 | 3045.5 | 3043.5 | 3037.3 | 3025.1 | 3025.1 | 3025.1 | 3029.2 | 3025.1 |
| 5° | 3098.6 | 3104.7 | 3090.4 | 3070.0 | 3047.5 | 3019.0 | 2988.3 | 2970.0 | 2967.9 | 2963.9 | 2953.6 |
| 7.5° | 3184.3 | 3192.5 | 3159.8 | 3110.8 | 3049.6 | 2980.2 | 2914.9 | 2853.6 | 2825.0 | 2802.6 | 2802.6 |
| 10° | 3308.8 | 3317.0 | 3251.7 | 3163.9 | 3041.4 | 2900.6 | 2745.4 | 2604.6 | 2494.4 | 2443.3 | 2431.1 |
| 12.5° | 3457.8 | 3461.9 | 3353.7 | 3200.6 | 2998.6 | 2727.1 | 2396.4 | 2088.2 | 1873.8 | 1775.9 | 1765.7 |
| 15° | 3621.1 | 3592.5 | 3449.7 | 3214.9 | 2876.1 | 2369.9 | 1798.3 | 1420.7 | 1198.2 | 1132.9 | 1157.4 |
| 17.5° | 3786.5 | 3733.4 | 3523.1 | 3192.5 | 2600.5 | 1798.3 | 1208.4 | 969.6 | 900.2 | 881.8 | 881.8 |
| 20° | 3941.6 | 3868.1 | 3576.2 | 3094.5 | 2122.9 | 1239.0 | 896.1 | 838.9 | 826.7 | 814.4 | 816.5 |
| 22.5° | 4096.7 | 3984.5 | 3623.2 | 2876.1 | 1581.9 | 885.9 | 802.2 | 783.8 | 767.5 | 751.2 | 749.1 |
| 25° | 4247.8 | 4092.6 | 3641.5 | 2471.9 | 1077.8 | 761.4 | 732.8 | 708.3 | 675.6 | 657.3 | 653.2 |
| 27.5° | 4405.0 | 4223.3 | 3629.3 | 1961.6 | 785.9 | 681.8 | 653.2 | 618.5 | 579.7 | 547.0 | 547.0 |
| 30° | 4707.1 | 4472.3 | 3586.4 | 1410.5 | 661.4 | 600.1 | 563.4 | 508.3 | 465.4 | 432.7 | 430.7 |
| 32.5° | 5119.4 | 4796.9 | 3439.5 | 992.0 | 587.9 | 528.7 | 473.6 | 412.3 | 367.4 | 342.9 | 342.9 |
| 35° | 5486.8 | 5123.5 | 3163.9 | 730.8 | 528.7 | 459.3 | 391.9 | 332.7 | 298.0 | 281.7 | 275.6 |
| 37.5° | 6046.1 | 5601.1 | 2784.2 | 594.0 | 471.5 | 398.0 | 328.6 | 273.5 | 244.9 | 232.7 | 232.7 |
| 40° | 6885.0 | 6184.9 | 2318.8 | 520.5 | 416.4 | 338.8 | 273.5 | 230.7 | 208.2 | 193.9 | 193.9 |
| 42.5° | 7926.1 | 6899.3 | 1847.3 | 467.4 | 365.4 | 291.9 | 228.6 | 196.0 | 175.5 | 165.3 | 163.3 |
| 45° | 9236.5 | 7652.5 | 1422.7 | 418.4 | 324.6 | 249.0 | 193.9 | 165.3 | 144.9 | 138.8 | 140.8 |
| 47.5° | 10604.1 | 8315.9 | 1102.3 | 375.6 | 281.7 | 210.2 | 165.3 | 142.9 | 128.6 | 120.4 | 120.4 |
| 50° | 11771.7 | 8773.2 | 836.9 | 326.6 | 249.0 | 177.6 | 144.9 | 128.6 | 116.3 | 112.3 | 110.2 |
| 52.5° | 12747.4 | 8905.8 | 640.9 | 283.7 | 218.4 | 153.1 | 128.6 | 116.3 | 106.1 | 100.0 | 100.0 |
| 55° | 13578.2 | 8789.5 | 502.1 | 238.8 | 183.7 | 132.7 | 114.3 | 104.1 | 91.9 | 85.7 | 83.7 |
| 57.5° | 14064.0 | 8415.9 | 383.7 | 198.0 | 149.0 | 110.2 | 100.0 | 87.8 | 73.5 | 63.3 | 63.3 |
| 60° | 14308.9 | 7873.0 | 293.9 | 163.3 | 114.3 | 87.8 | 81.6 | 65.3 | 51.0 | 42.9 | 40.8 |
| 62.5° | 14015.0 | 7152.4 | 222.5 | 128.6 | 85.7 | 65.3 | 55.1 | 46.9 | 32.7 | 24.5 | 24.5 |
| 63° | 13833.3 | 6944.2 | 214.3 | 122.5 | 79.6 | 61.2 | 51.0 | 42.9 | 28.6 | 22.5 | 20.4 |
| 65° | 12610.7 | 6035.9 | 175.5 | 98.0 | 63.3 | 42.9 | 34.7 | 30.6 | 20.4 | 10.2 | 8.2 |
| 67.5° | 10014.2 | 4617.2 | 138.8 | 73.5 | 44.9 | 30.6 | 20.4 | 18.4 | 6.1 | 0.0 | 0.0 |
| 70° | 6770.7 | 2982.2 | 108.2 | 53.1 | 30.6 | 18.4 | 10.2 | 8.2 | 2.0 | 0.0 | 0.0 |
| 72.5° | 3531.3 | 1528.9 | 83.7 | 38.8 | 18.4 | 12.2 | 6.1 | 2.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1249.2 | 520.5 | 61.2 | 24.5 | 12.2 | 6.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 377.6 | 193.9 | 38.8 | 18.4 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 132.7 | 71.4 | 22.5 | 12.2 | 6.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 65.3 | 34.7 | 14.3 | 10.2 | 6.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 36.7 | 22.5 | 12.2 | 10.2 | 6.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 26.5 | 16.3 | 12.2 | 10.2 | 8.2 | 4.1 | 2.0 | 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 |

(END OF REPORT)