

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: P455899

Luminaire Tested: **GALN-SA7A-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22937 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

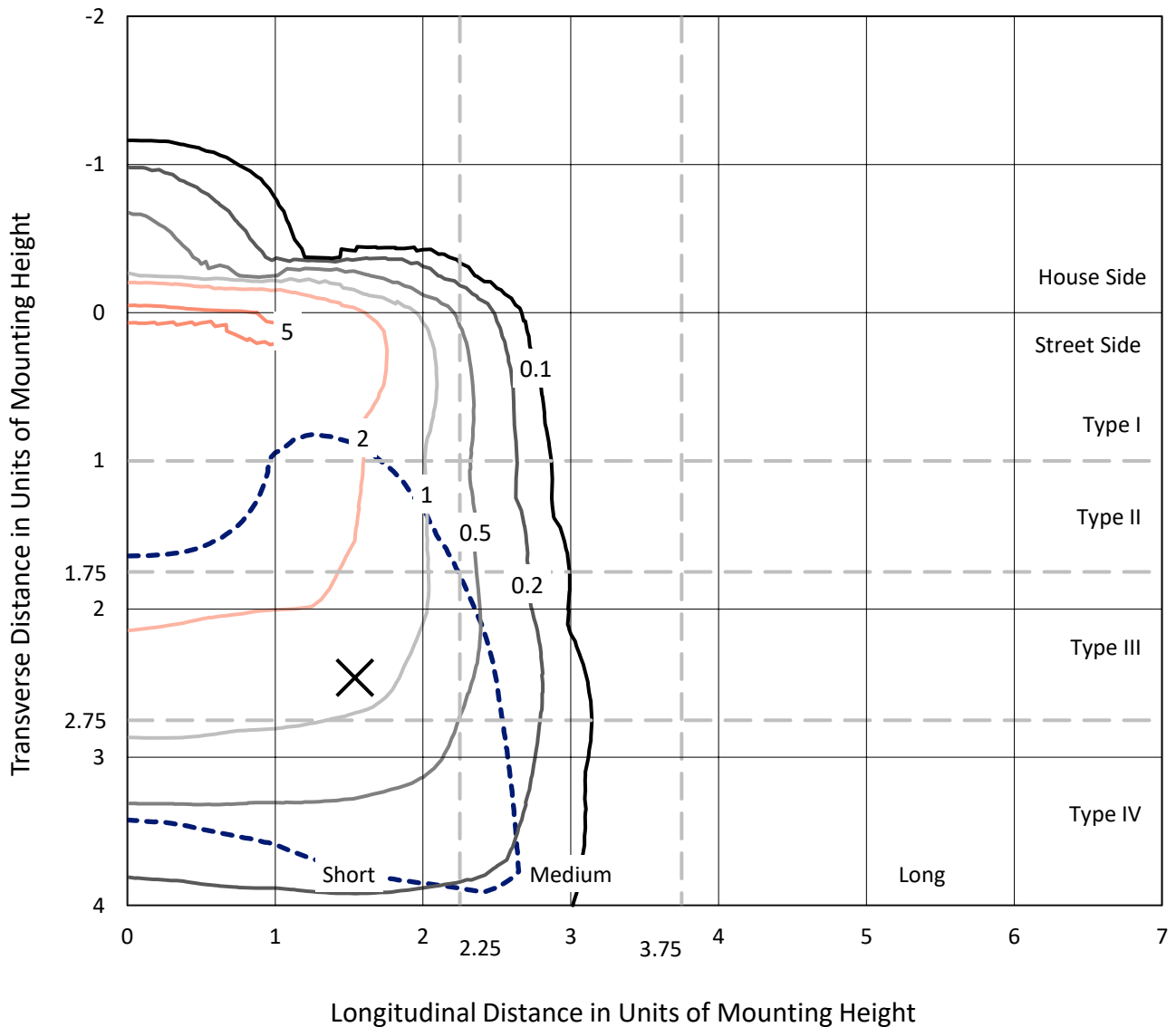
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

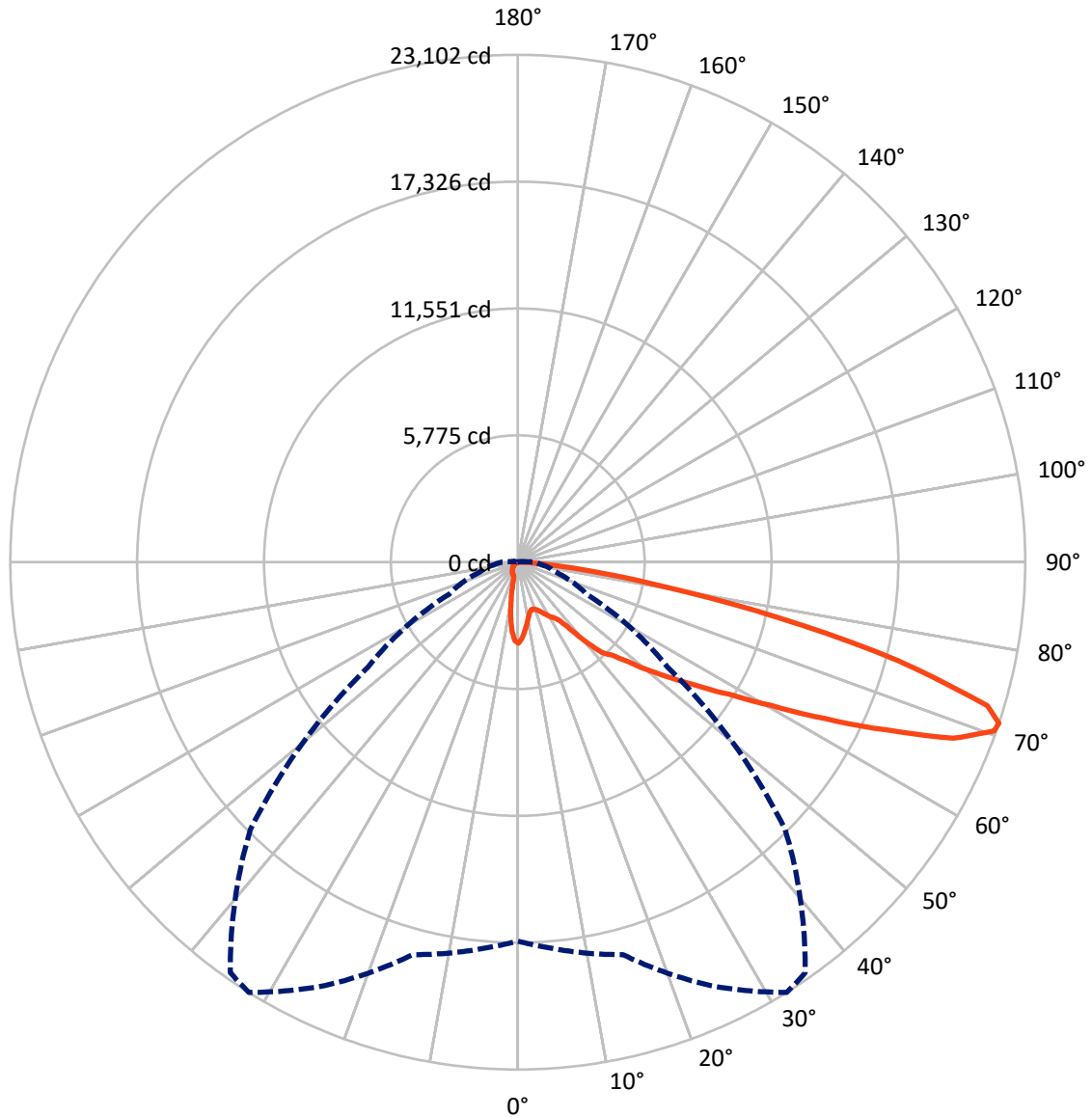
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1921.2 | 0.0 | 1921.2 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 21015.8 | 0.0 | 21015.8 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 22937.0 | 0.0 | 22937.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 299.9 | 1.3 |
| 10°-20° | 651.0 | 2.8 |
| 20°-30° | 1012.7 | 4.4 |
| 30°-40° | 1687.1 | 7.4 |
| 40°-50° | 3138.3 | 13.7 |
| 50°-60° | 5038.7 | 22.0 |
| 60°-70° | 6777.3 | 29.5 |
| 70°-80° | 4021.1 | 17.5 |
| 80°-90° | 310.8 | 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° | 22937.0 | 100.0 |
| 0°-180° | 22937.0 | 100.0 |



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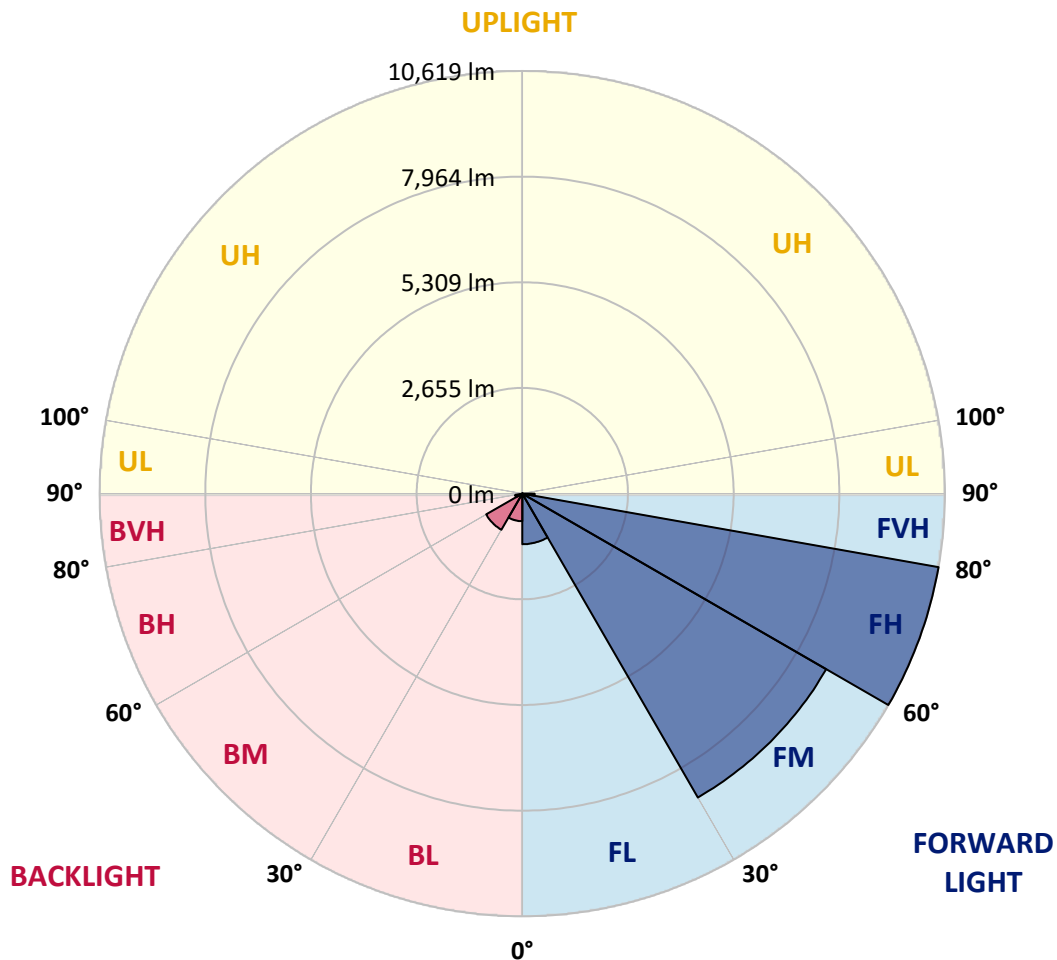
CATALOG NUMBER: GALN-SA7A-760-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1271.3 | 5.5 | | | |
| FM | (30°-60°) | 8816.1 | 38.4 | | | |
| FH | (60°-80°) | 10618.7 | 46.3 | | | G4/12000 |
| FVH | (80°-90°) | 309.6 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 692.3 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1048.1 | 4.6 | B2/2500 | | |
| BH | (60°-80°) | 179.7 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.2 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 |
| 2.5° | 3421.0 | 3456.2 | 3450.9 | 3463.3 | 3493.2 | 3505.5 | 3539.0 | 3575.9 | 3627.0 | 3662.2 | 3685.1 |
| 5° | 3063.6 | 3090.0 | 3093.5 | 3155.1 | 3185.1 | 3218.5 | 3317.1 | 3424.5 | 3544.3 | 3639.3 | 3702.7 |
| 7.5° | 2681.5 | 2695.6 | 2723.8 | 2804.8 | 2880.5 | 2913.9 | 3063.6 | 3250.2 | 3438.6 | 3616.4 | 3730.9 |
| 10° | 2366.4 | 2382.2 | 2433.3 | 2519.5 | 2590.0 | 2634.0 | 2841.7 | 3075.9 | 3340.0 | 3604.1 | 3771.4 |
| 12.5° | 2186.8 | 2195.6 | 2214.9 | 2292.4 | 2382.2 | 2429.7 | 2653.3 | 2921.0 | 3260.8 | 3609.4 | 3840.0 |
| 15° | 2174.4 | 2170.9 | 2148.0 | 2179.7 | 2260.7 | 2310.0 | 2528.3 | 2815.3 | 3190.4 | 3627.0 | 3921.0 |
| 17.5° | 2239.6 | 2230.8 | 2176.2 | 2176.2 | 2243.1 | 2283.6 | 2475.5 | 2759.0 | 3155.1 | 3667.5 | 4035.5 |
| 20° | 2339.9 | 2325.9 | 2236.1 | 2229.0 | 2294.2 | 2336.4 | 2507.2 | 2762.5 | 3162.2 | 3743.2 | 4188.7 |
| 22.5° | 2466.7 | 2450.9 | 2315.3 | 2318.8 | 2389.2 | 2431.5 | 2598.8 | 2825.9 | 3206.2 | 3836.5 | 4352.4 |
| 25° | 2632.2 | 2614.6 | 2454.4 | 2447.3 | 2521.3 | 2558.3 | 2734.3 | 2938.6 | 3267.8 | 3952.7 | 4567.2 |
| 27.5° | 2852.3 | 2815.3 | 2623.4 | 2612.9 | 2692.1 | 2739.6 | 2898.1 | 3090.0 | 3377.0 | 4113.0 | 4856.0 |
| 30° | 3033.7 | 2993.2 | 2810.0 | 2781.9 | 2866.4 | 2903.4 | 3067.1 | 3294.2 | 3591.8 | 4392.9 | 5255.6 |
| 32.5° | 3271.3 | 3211.5 | 2996.7 | 2922.7 | 3012.5 | 3060.1 | 3311.8 | 3674.5 | 3910.5 | 4688.7 | 5731.0 |
| 35° | 3806.6 | 3769.6 | 3507.3 | 3248.5 | 3243.2 | 3303.0 | 3672.8 | 4058.4 | 4238.0 | 5150.0 | 6378.9 |
| 37.5° | 4572.5 | 4546.1 | 4267.9 | 3921.0 | 3820.7 | 3792.5 | 4111.2 | 4480.9 | 4760.9 | 5783.8 | 7132.5 |
| 40° | 5461.6 | 5400.0 | 5144.7 | 4850.7 | 4720.4 | 4637.6 | 4628.8 | 5109.5 | 5444.0 | 6644.8 | 7917.8 |
| 42.5° | 6099.0 | 5986.3 | 5676.4 | 5655.3 | 5627.1 | 5540.9 | 5290.8 | 6028.6 | 6326.1 | 7570.9 | 8757.6 |
| 45° | 6768.1 | 6597.3 | 6136.0 | 6056.7 | 6046.2 | 6040.9 | 6290.9 | 7116.7 | 7287.5 | 8574.5 | 9620.4 |
| 47.5° | 7287.5 | 7151.9 | 6773.3 | 6738.1 | 6782.1 | 6901.9 | 7613.2 | 8271.7 | 8236.5 | 9468.9 | 10344.0 |
| 50° | 7979.4 | 7877.3 | 7456.5 | 7523.4 | 7750.5 | 7946.0 | 9104.5 | 9530.6 | 9016.5 | 10173.2 | 10870.4 |
| 52.5° | 8796.4 | 8608.0 | 8217.1 | 8398.5 | 8747.1 | 9072.8 | 10687.3 | 10632.8 | 9564.0 | 10703.2 | 11263.1 |
| 55° | 9504.2 | 9370.3 | 9236.5 | 9424.9 | 9946.1 | 10352.8 | 12117.0 | 11458.5 | 9961.9 | 11129.3 | 11435.6 |
| 57.5° | 10701.4 | 10669.7 | 10532.4 | 10724.3 | 11356.4 | 11779.0 | 13397.0 | 12099.4 | 10217.2 | 11351.1 | 11233.1 |
| 60° | 12472.7 | 12421.6 | 12166.3 | 12411.0 | 13235.0 | 13898.8 | 14576.7 | 12675.1 | 10275.3 | 11264.8 | 10650.4 |
| 62.5° | 14603.1 | 14428.8 | 14210.5 | 14571.4 | 15701.8 | 15994.0 | 15687.7 | 13016.7 | 10058.8 | 10578.2 | 9245.3 |
| 65° | 16592.7 | 16413.1 | 16418.4 | 17179.0 | 18409.7 | 18608.6 | 16983.5 | 12965.7 | 9424.9 | 8858.0 | 6819.1 |
| 67.5° | 18115.7 | 18085.7 | 18300.5 | 19784.8 | 21394.0 | 21256.7 | 18142.1 | 12201.5 | 7546.3 | 5741.6 | 3623.5 |
| 70° | 18193.1 | 18251.2 | 18867.5 | 21372.9 | 23006.8 | 22788.5 | 18043.5 | 9917.9 | 4704.5 | 2641.0 | 1427.9 |
| 71° | 17256.4 | 17647.3 | 18499.5 | 21323.6 | 23101.9 | 22818.4 | 17212.4 | 8306.9 | 3450.9 | 1841.7 | 1030.0 |
| 72.5° | 14705.2 | 14911.2 | 16752.9 | 20068.2 | 22350.1 | 21744.4 | 15104.9 | 5822.6 | 2209.7 | 1126.8 | 591.6 |
| 75° | 8099.1 | 8606.2 | 11219.1 | 15744.0 | 17876.2 | 17344.5 | 9844.0 | 2766.0 | 1102.2 | 616.2 | 244.7 |
| 77.5° | 3855.9 | 3757.3 | 5474.0 | 9363.3 | 12120.5 | 12092.4 | 4959.8 | 1229.0 | 642.6 | 417.3 | 123.2 |
| 80° | 1102.2 | 1239.5 | 2095.2 | 4451.0 | 6729.3 | 6803.3 | 1905.1 | 593.3 | 445.5 | 325.7 | 63.4 |
| 82.5° | 332.8 | 339.8 | 769.4 | 1968.4 | 3347.1 | 3155.1 | 714.8 | 302.8 | 320.4 | 258.8 | 37.0 |
| 85° | 58.1 | 72.2 | 227.1 | 693.7 | 1276.5 | 968.4 | 179.6 | 144.4 | 211.3 | 170.8 | 21.1 |
| 87.5° | 3.5 | 5.3 | 75.7 | 79.2 | 112.7 | 65.1 | 31.7 | 21.1 | 45.8 | 45.8 | 12.3 |
| 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-SA7A-760-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 | 3688.6 |
| 2.5° | 3701.0 | 3711.5 | 3704.5 | 3688.6 | 3662.2 | 3630.5 | 3588.3 | 3553.1 | 3523.1 | 3507.3 | 3526.6 |
| 5° | 3723.8 | 3737.9 | 3702.7 | 3623.5 | 3503.8 | 3373.5 | 3225.6 | 3111.1 | 3021.3 | 2993.2 | 2982.6 |
| 7.5° | 3759.1 | 3767.9 | 3672.8 | 3496.7 | 3243.2 | 2935.1 | 2665.7 | 2438.5 | 2262.5 | 2209.7 | 2132.2 |
| 10° | 3804.8 | 3799.6 | 3620.0 | 3292.5 | 2847.0 | 2384.0 | 1966.7 | 1656.8 | 1422.6 | 1338.1 | 1331.1 |
| 12.5° | 3875.3 | 3847.1 | 3553.1 | 3014.3 | 2375.2 | 1769.5 | 1253.6 | 980.7 | 832.8 | 783.5 | 772.9 |
| 15° | 3963.3 | 3896.4 | 3447.4 | 2688.6 | 1818.8 | 1142.7 | 772.9 | 690.2 | 670.8 | 667.3 | 663.8 |
| 17.5° | 4067.2 | 3961.5 | 3308.3 | 2288.9 | 1278.3 | 741.2 | 646.2 | 644.4 | 646.2 | 642.6 | 640.9 |
| 20° | 4208.0 | 4030.2 | 3142.8 | 1815.3 | 845.1 | 625.0 | 616.2 | 616.2 | 618.0 | 616.2 | 616.2 |
| 22.5° | 4357.7 | 4111.2 | 2938.6 | 1385.7 | 637.4 | 593.3 | 591.6 | 595.1 | 598.6 | 596.9 | 596.9 |
| 25° | 4542.6 | 4216.8 | 2669.2 | 949.0 | 570.5 | 566.9 | 568.7 | 575.7 | 582.8 | 584.5 | 582.8 |
| 27.5° | 4810.2 | 4347.1 | 2380.4 | 653.2 | 522.9 | 526.4 | 544.1 | 561.7 | 572.2 | 574.0 | 574.0 |
| 30° | 5111.3 | 4491.5 | 2003.7 | 530.0 | 484.2 | 484.2 | 505.3 | 538.8 | 561.7 | 565.2 | 566.9 |
| 32.5° | 5498.6 | 4658.8 | 1586.4 | 477.1 | 447.2 | 443.7 | 463.1 | 503.6 | 545.8 | 558.1 | 558.1 |
| 35° | 5977.5 | 4856.0 | 1179.7 | 443.7 | 420.8 | 412.0 | 422.6 | 456.0 | 510.6 | 545.8 | 549.3 |
| 37.5° | 6539.2 | 5042.6 | 862.7 | 413.8 | 396.2 | 383.8 | 390.9 | 417.3 | 461.3 | 514.1 | 528.2 |
| 40° | 7058.6 | 5208.1 | 644.4 | 389.1 | 371.5 | 362.7 | 368.0 | 380.3 | 417.3 | 466.6 | 475.4 |
| 42.5° | 7625.5 | 5336.6 | 512.4 | 362.7 | 346.9 | 343.3 | 343.3 | 348.6 | 373.3 | 401.4 | 403.2 |
| 45° | 8190.7 | 5382.4 | 429.6 | 331.0 | 320.4 | 324.0 | 322.2 | 318.7 | 329.2 | 325.7 | 325.7 |
| 47.5° | 8593.9 | 5327.8 | 355.7 | 301.1 | 301.1 | 306.4 | 297.6 | 285.2 | 279.9 | 258.8 | 260.6 |
| 50° | 8870.3 | 5128.9 | 292.3 | 265.9 | 279.9 | 287.0 | 269.4 | 250.0 | 230.6 | 207.8 | 202.5 |
| 52.5° | 8984.8 | 4775.0 | 239.5 | 220.1 | 248.3 | 257.1 | 235.9 | 213.0 | 183.1 | 163.7 | 158.5 |
| 55° | 8910.8 | 4338.3 | 199.0 | 179.6 | 209.5 | 220.1 | 199.0 | 172.5 | 139.1 | 118.0 | 114.4 |
| 57.5° | 8585.1 | 3817.2 | 169.0 | 142.6 | 167.3 | 174.3 | 160.2 | 132.1 | 98.6 | 77.5 | 77.5 |
| 60° | 8021.7 | 3278.4 | 137.3 | 112.7 | 125.0 | 135.6 | 121.5 | 95.1 | 66.9 | 47.5 | 44.0 |
| 62.5° | 6879.0 | 2662.2 | 110.9 | 88.0 | 88.0 | 96.8 | 84.5 | 68.7 | 42.3 | 24.6 | 22.9 |
| 65° | 4966.9 | 1825.8 | 88.0 | 65.1 | 63.4 | 63.4 | 52.8 | 45.8 | 24.6 | 10.6 | 7.0 |
| 67.5° | 2699.1 | 1030.0 | 70.4 | 49.3 | 44.0 | 42.3 | 33.5 | 26.4 | 10.6 | 1.8 | 0.0 |
| 70° | 1061.7 | 396.2 | 54.6 | 33.5 | 28.2 | 26.4 | 17.6 | 12.3 | 7.0 | 0.0 | 0.0 |
| 71° | 720.1 | 272.9 | 47.5 | 28.2 | 22.9 | 19.4 | 14.1 | 10.6 | 5.3 | 0.0 | 0.0 |
| 72.5° | 412.0 | 169.0 | 37.0 | 21.1 | 17.6 | 14.1 | 10.6 | 7.0 | 5.3 | 0.0 | 0.0 |
| 75° | 179.6 | 86.3 | 22.9 | 15.8 | 12.3 | 8.8 | 7.0 | 5.3 | 1.8 | 0.0 | 0.0 |
| 77.5° | 91.6 | 47.5 | 15.8 | 12.3 | 7.0 | 5.3 | 3.5 | 1.8 | 0.0 | 0.0 | 0.0 |
| 80° | 51.1 | 24.6 | 10.6 | 7.0 | 5.3 | 3.5 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 28.2 | 14.1 | 5.3 | 3.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 17.6 | 8.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.8 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 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)