

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: P455887

Luminaire Tested: **GALN-SA7A-760-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
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-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27456 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - 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

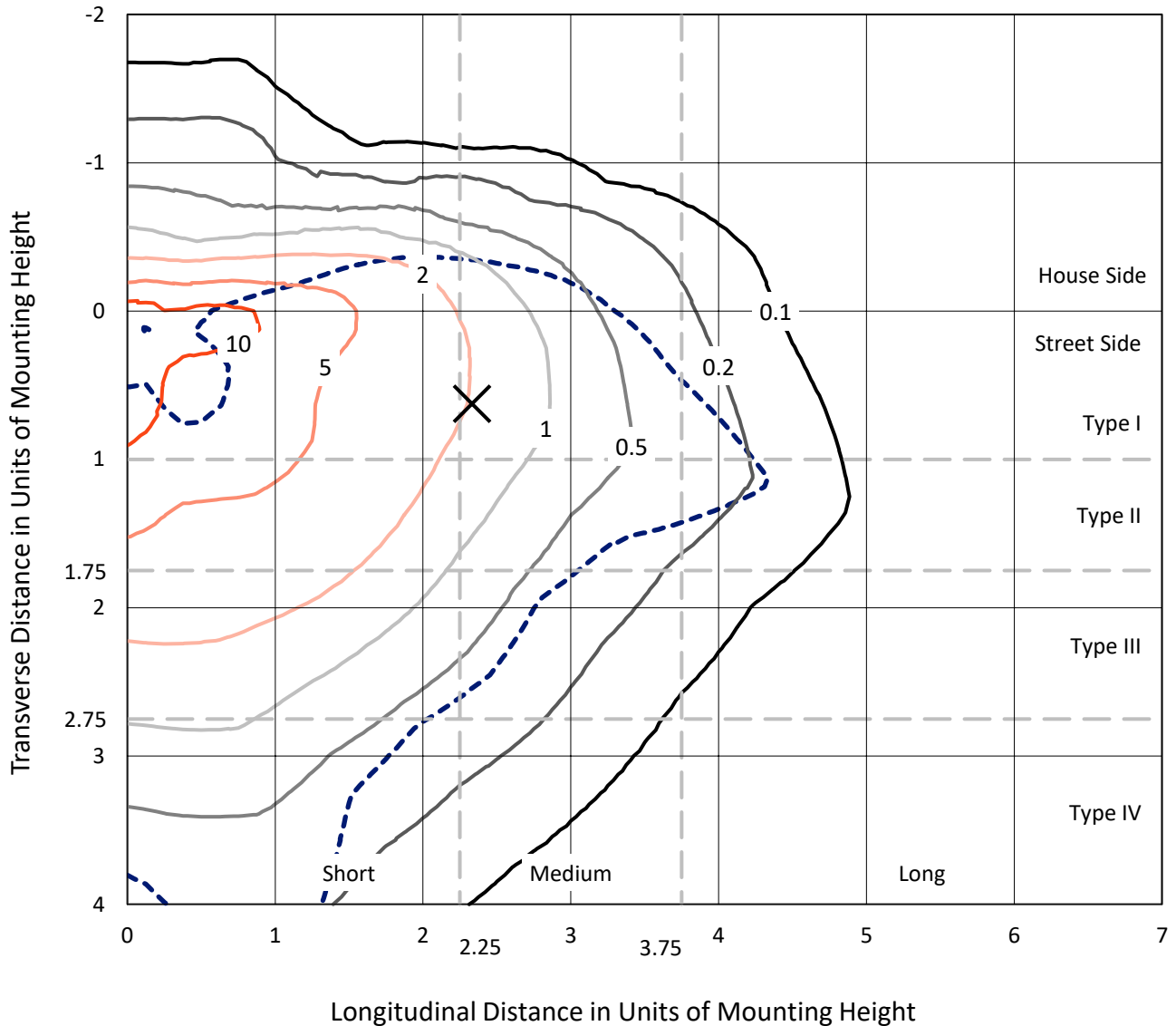




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Iso-Footcandle Lines of Horizontal Illumination

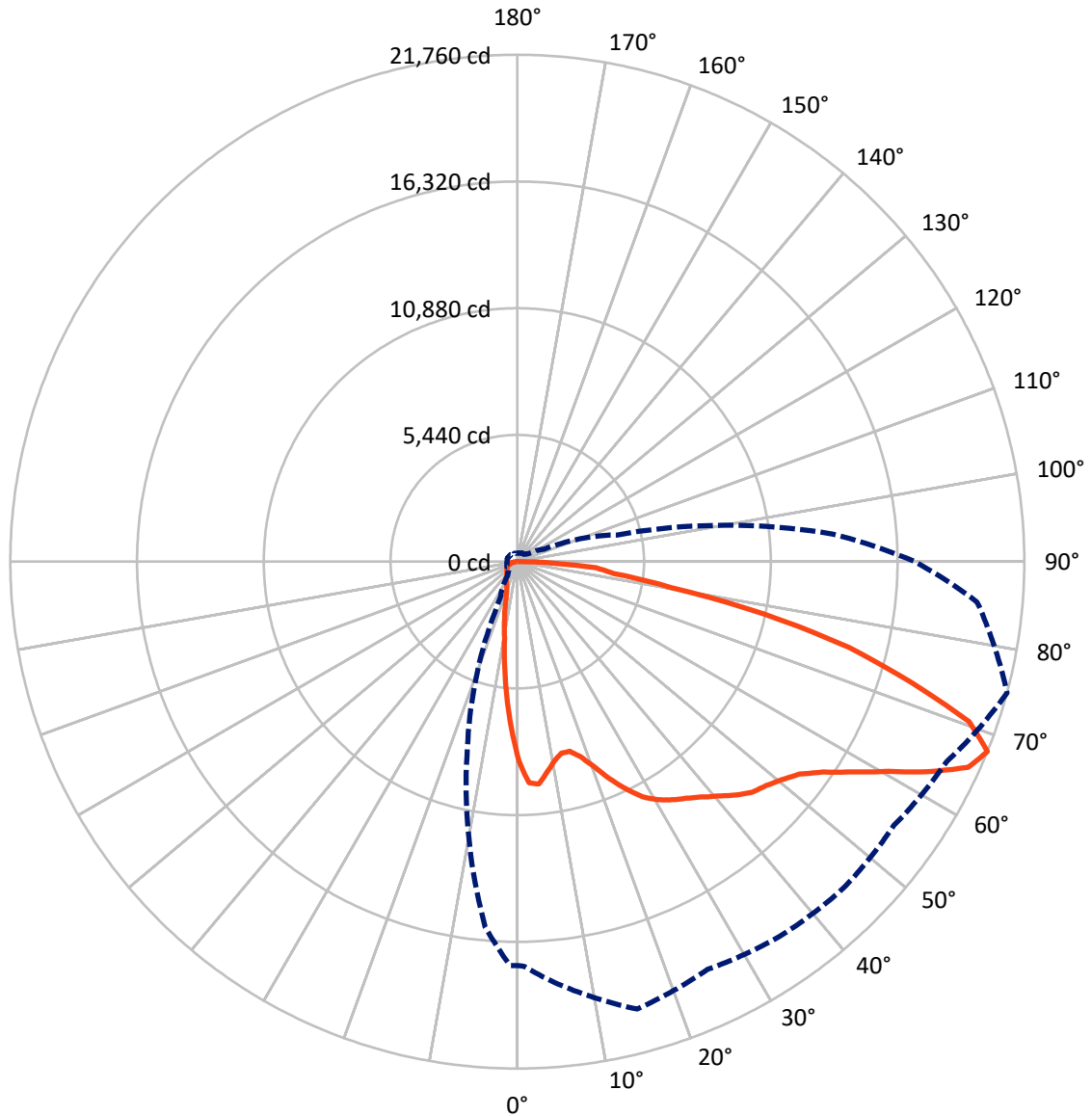
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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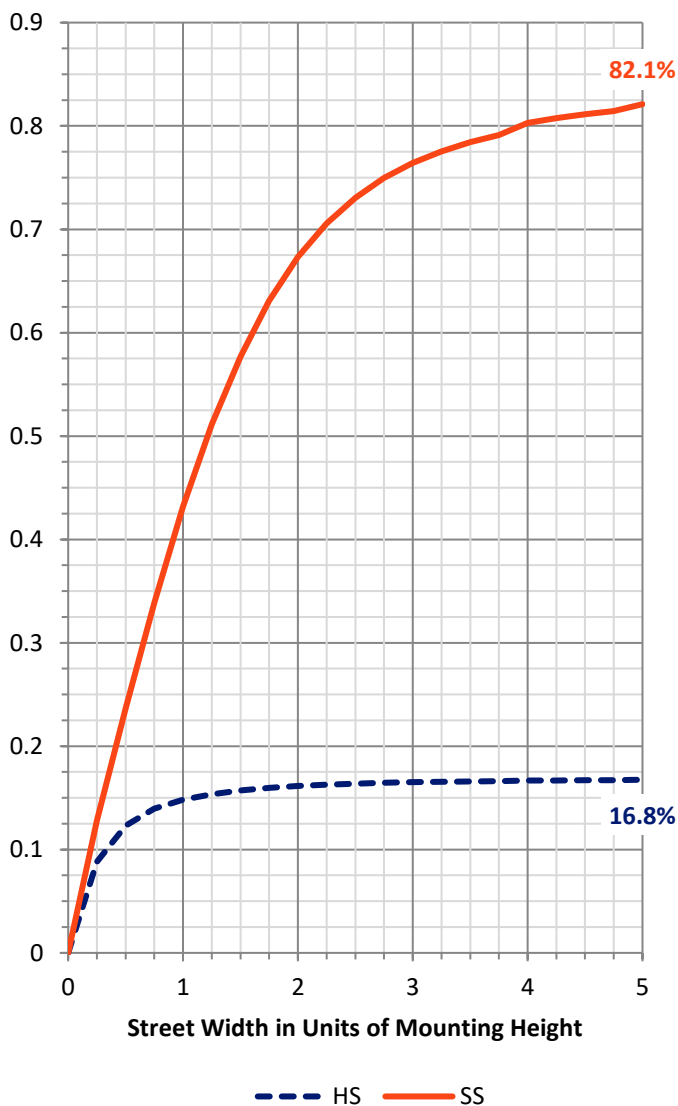
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4640.7 | 0.0 | 4640.7 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 22815.3 | 0.0 | 22815.3 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 27456.0 | 0.0 | 27456.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 650.6 | 2.4 |
| 10°-20° | 1356.9 | 4.9 |
| 20°-30° | 1952.6 | 7.1 |
| 30°-40° | 2812.2 | 10.2 |
| 40°-50° | 3950.4 | 14.4 |
| 50°-60° | 5509.4 | 20.1 |
| 60°-70° | 6550.3 | 23.9 |
| 70°-80° | 3857.8 | 14.1 |
| 80°-90° | 815.8 | 3.0 |
| 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° | 27456.0 | 100.0 |
| 0°-180° | 27456.0 | 100.0 |

Coefficient of Utilization



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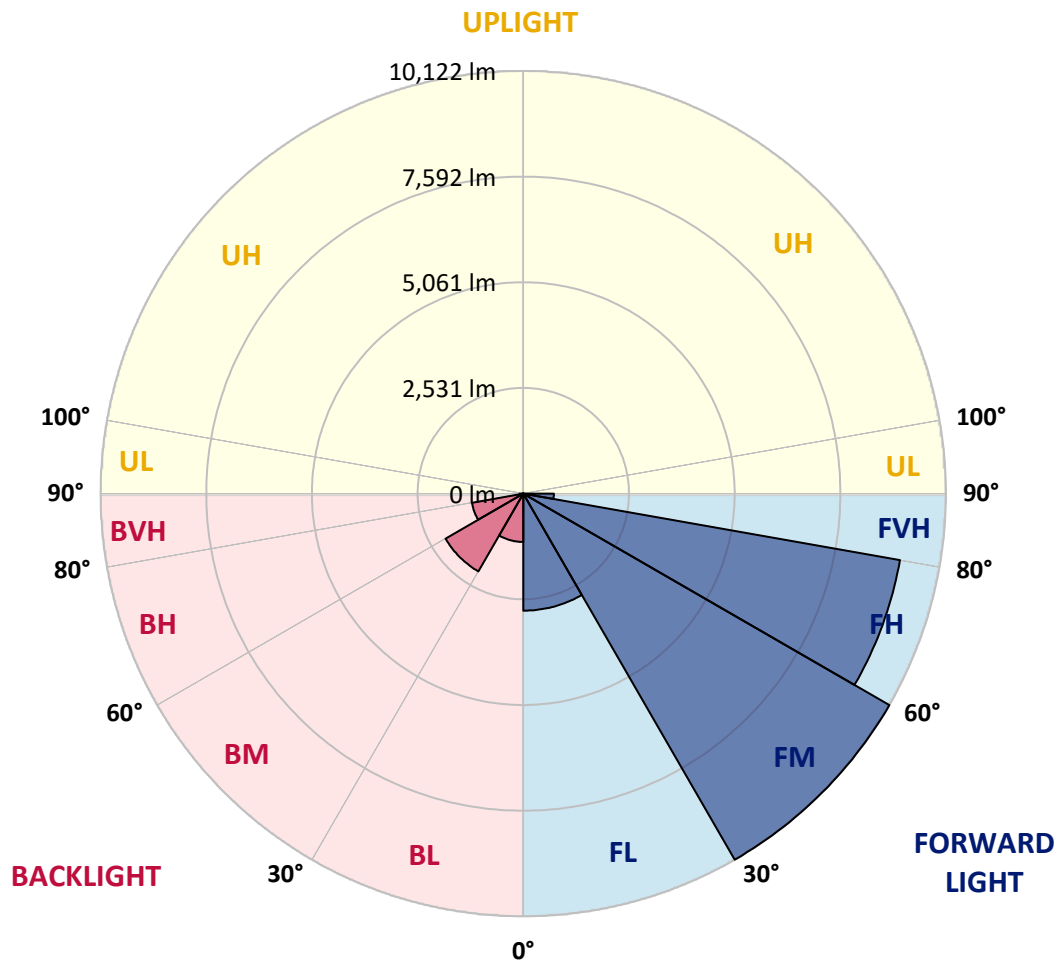
CATALOG NUMBER: GALN-SA7A-760-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2802.5 | 10.2 | | | |
| FM | (30°-60°) | 10122.0 | 36.9 | | | |
| FH | (60°-80°) | 9159.4 | 33.4 | | | G4/12000 |
| FVH | (80°-90°) | 731.4 | 2.7 | | | G4/750 |
| BL | (0°-30°) | 1157.5 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2150.0 | 7.8 | B2/2500 | | |
| BH | (60°-80°) | 1248.7 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 84.4 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 |
| 2.5° | 9248.7 | 9261.0 | 9340.3 | 9570.9 | 9729.4 | 9787.5 | 9828.0 | 9752.3 | 9678.3 | 9498.7 | 9227.6 |
| 5° | 9220.5 | 9292.7 | 9498.7 | 10016.4 | 10424.8 | 10600.9 | 10653.7 | 10426.6 | 10051.6 | 9590.3 | 9035.7 |
| 7.5° | 8681.8 | 8778.6 | 9095.5 | 9963.5 | 10683.6 | 11095.6 | 11041.1 | 10630.8 | 9954.7 | 9132.5 | 8357.8 |
| 10° | 8042.7 | 8150.1 | 8532.1 | 9581.5 | 10509.3 | 11076.3 | 11076.3 | 10576.2 | 9678.3 | 8701.1 | 7808.5 |
| 12.5° | 7535.6 | 7648.3 | 8084.9 | 9188.9 | 10146.6 | 10683.6 | 10773.4 | 10343.8 | 9479.4 | 8428.2 | 7447.6 |
| 15° | 7368.3 | 7477.5 | 7947.6 | 8951.2 | 9762.8 | 10090.3 | 10120.2 | 9979.4 | 9382.5 | 8447.6 | 7431.7 |
| 17.5° | 7576.1 | 7716.9 | 8192.3 | 9021.6 | 9410.7 | 9430.1 | 9452.9 | 9563.9 | 9393.1 | 8801.5 | 7752.2 |
| 20° | 8176.5 | 8327.9 | 8824.4 | 9248.7 | 9102.6 | 8901.9 | 8914.2 | 9199.4 | 9518.1 | 9386.0 | 8518.0 |
| 22.5° | 9042.7 | 9174.8 | 9683.6 | 9648.4 | 8972.3 | 8558.5 | 8472.3 | 8870.2 | 9703.0 | 10115.0 | 9333.2 |
| 25° | 9977.6 | 10132.6 | 10717.1 | 10241.7 | 9009.3 | 8354.3 | 8299.7 | 8676.5 | 9894.9 | 10796.3 | 10275.2 |
| 27.5° | 11048.1 | 11199.5 | 11660.8 | 10840.3 | 9202.9 | 8338.5 | 8273.3 | 8658.9 | 10067.4 | 11426.6 | 11174.9 |
| 30° | 11843.9 | 11983.0 | 12296.4 | 11343.9 | 9440.6 | 8444.1 | 8363.1 | 8798.0 | 10215.3 | 11858.0 | 12051.7 |
| 32.5° | 12468.9 | 12613.3 | 12784.1 | 11657.3 | 9754.0 | 8636.0 | 8486.4 | 9051.5 | 10409.0 | 12187.2 | 12701.4 |
| 35° | 13120.4 | 13291.2 | 13278.8 | 11935.5 | 10046.3 | 8857.8 | 8711.7 | 9417.7 | 10713.6 | 12474.2 | 13525.3 |
| 37.5° | 13946.1 | 14014.8 | 13926.8 | 12185.5 | 10396.7 | 9257.5 | 9176.5 | 9961.8 | 11146.7 | 12821.1 | 14488.4 |
| 40° | 14784.2 | 14921.5 | 14469.1 | 12488.3 | 10822.7 | 10009.3 | 10000.5 | 10766.4 | 11660.8 | 13227.8 | 15421.6 |
| 42.5° | 15502.6 | 15618.8 | 14976.1 | 12752.4 | 11338.6 | 10926.6 | 10993.5 | 11845.7 | 12335.1 | 13699.6 | 16171.6 |
| 45° | 16043.1 | 16147.0 | 15444.5 | 13007.7 | 12018.2 | 11986.5 | 12380.9 | 13002.4 | 13185.5 | 14124.0 | 16611.8 |
| 47.5° | 16502.6 | 16603.0 | 15770.2 | 13395.1 | 12858.1 | 13252.4 | 13939.1 | 14208.5 | 13912.7 | 14366.9 | 17104.7 |
| 50° | 16889.9 | 16919.9 | 15993.8 | 13856.3 | 13900.4 | 14803.6 | 15469.1 | 15643.4 | 14631.0 | 14715.5 | 17532.6 |
| 52.5° | 17293.1 | 17254.4 | 16379.4 | 14437.4 | 15027.2 | 16275.5 | 16759.7 | 16941.0 | 15319.4 | 15145.1 | 18155.9 |
| 55° | 18196.4 | 18233.3 | 17243.8 | 15169.8 | 16166.3 | 17721.0 | 18358.3 | 18184.0 | 16081.8 | 15935.7 | 18948.2 |
| 57.5° | 19288.0 | 19256.3 | 18460.5 | 16316.0 | 17326.6 | 19066.1 | 19541.5 | 19261.5 | 17099.5 | 17022.0 | 19751.0 |
| 60° | 19712.3 | 19754.5 | 19478.1 | 17548.4 | 18471.0 | 20244.0 | 20729.9 | 20295.1 | 18319.6 | 18284.4 | 20356.7 |
| 62.5° | 19286.2 | 19523.9 | 19710.5 | 18645.3 | 19446.4 | 21110.2 | 21592.7 | 21096.2 | 19592.6 | 19847.8 | 20781.0 |
| 65° | 18437.6 | 18488.6 | 19124.2 | 19574.9 | 19916.5 | 21252.8 | 21504.6 | 21240.5 | 20656.0 | 21272.2 | 20761.6 |
| 67.5° | 17335.4 | 17379.4 | 18124.2 | 19879.5 | 19310.8 | 19633.0 | 19809.1 | 19731.6 | 20326.7 | 21759.9 | 19805.6 |
| 70° | 16286.0 | 16250.8 | 17037.8 | 19103.1 | 16810.7 | 16321.3 | 16467.4 | 16224.4 | 17539.6 | 20568.0 | 17930.5 |
| 72.5° | 14243.7 | 14370.5 | 15215.6 | 16944.5 | 13310.5 | 12514.7 | 12833.4 | 12204.9 | 13490.1 | 17615.3 | 14553.6 |
| 75° | 11157.3 | 11187.2 | 12597.5 | 14220.8 | 10041.0 | 8785.7 | 9217.0 | 8954.7 | 10333.3 | 14694.4 | 10049.8 |
| 77.5° | 7725.7 | 7658.8 | 9174.8 | 10861.5 | 7160.6 | 6431.7 | 6438.7 | 6313.7 | 7215.2 | 10819.2 | 6827.8 |
| 80° | 4906.9 | 4804.8 | 5743.3 | 6709.9 | 4921.0 | 5264.4 | 5091.8 | 5086.5 | 4697.4 | 6674.6 | 4128.7 |
| 82.5° | 2651.5 | 2764.2 | 3628.7 | 4206.2 | 3530.1 | 4068.9 | 3729.1 | 3619.9 | 3223.8 | 4178.0 | 2641.0 |
| 85° | 1207.8 | 1313.4 | 1935.0 | 2861.1 | 2681.5 | 2711.4 | 1811.7 | 2137.4 | 2667.4 | 3392.8 | 1410.3 |
| 87.5° | 118.0 | 151.4 | 399.7 | 1350.4 | 915.5 | 721.9 | 269.4 | 519.4 | 670.8 | 1206.0 | 112.7 |
| 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-SA7A-760-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 |
| 2.5° | 9116.7 | 9025.1 | 8713.5 | 8456.4 | 8183.5 | 7975.8 | 7704.6 | 7523.3 | 7398.3 | 7209.9 | 7187.0 |
| 5° | 8697.6 | 8474.0 | 7931.7 | 7378.9 | 6901.8 | 6542.6 | 6178.1 | 5843.6 | 5646.4 | 5584.8 | 5505.6 |
| 7.5° | 7991.6 | 7614.8 | 6917.6 | 6283.8 | 5736.2 | 5201.0 | 4789.0 | 4496.7 | 4301.3 | 4186.8 | 4049.5 |
| 10° | 7410.6 | 6973.9 | 6125.3 | 5348.9 | 4898.1 | 4565.4 | 4202.7 | 3889.3 | 3648.1 | 3442.1 | 3329.4 |
| 12.5° | 7019.7 | 6526.7 | 5572.5 | 4942.2 | 4593.5 | 4239.7 | 3815.3 | 3463.2 | 3107.6 | 2873.4 | 2773.0 |
| 15° | 6901.8 | 6380.6 | 5401.7 | 4739.7 | 4239.7 | 3776.6 | 3301.2 | 2841.7 | 2489.6 | 2267.7 | 2193.8 |
| 17.5° | 7190.5 | 6560.2 | 5399.9 | 4470.3 | 3824.1 | 3271.3 | 2662.1 | 2230.7 | 1869.8 | 1704.3 | 1651.5 |
| 20° | 7729.3 | 6905.3 | 5415.8 | 4204.4 | 3373.4 | 2595.2 | 1936.7 | 1582.8 | 1410.3 | 1339.9 | 1313.4 |
| 22.5° | 8481.1 | 7431.7 | 5463.3 | 3942.1 | 2880.4 | 1993.1 | 1450.8 | 1271.2 | 1209.6 | 1197.2 | 1192.0 |
| 25° | 9407.2 | 8083.2 | 5623.5 | 3706.2 | 2464.9 | 1521.2 | 1213.1 | 1132.1 | 1096.9 | 1084.6 | 1082.8 |
| 27.5° | 10259.3 | 8924.8 | 5817.2 | 3503.7 | 2063.5 | 1311.7 | 1096.9 | 1028.2 | 993.0 | 991.2 | 994.8 |
| 30° | 11028.7 | 9629.0 | 5979.2 | 3276.6 | 1758.9 | 1165.6 | 1021.2 | 952.5 | 919.1 | 917.3 | 927.9 |
| 32.5° | 11694.3 | 10208.3 | 6098.9 | 3053.0 | 1589.9 | 1075.8 | 952.5 | 878.6 | 850.4 | 845.1 | 850.4 |
| 35° | 12405.6 | 10785.8 | 6044.3 | 2878.7 | 1493.0 | 1001.8 | 901.5 | 829.3 | 795.8 | 780.0 | 780.0 |
| 37.5° | 13217.2 | 11380.9 | 5951.0 | 2734.3 | 1449.0 | 940.2 | 857.4 | 787.0 | 753.6 | 737.7 | 736.0 |
| 40° | 14102.8 | 11976.0 | 5822.5 | 2605.8 | 1405.0 | 903.2 | 827.5 | 753.6 | 713.1 | 697.2 | 693.7 |
| 42.5° | 14884.6 | 12484.8 | 5716.8 | 2521.3 | 1332.8 | 910.3 | 801.1 | 728.9 | 677.9 | 656.7 | 655.0 |
| 45° | 15564.2 | 12997.1 | 5697.5 | 2472.0 | 1273.0 | 899.7 | 794.1 | 709.5 | 649.7 | 626.8 | 623.3 |
| 47.5° | 16095.9 | 13530.6 | 5808.4 | 2443.8 | 1207.8 | 843.4 | 839.8 | 697.2 | 625.0 | 600.4 | 596.9 |
| 50° | 16743.8 | 14287.7 | 6061.9 | 2385.7 | 1147.9 | 790.5 | 887.4 | 695.5 | 605.7 | 574.0 | 565.2 |
| 52.5° | 17606.5 | 15273.7 | 6405.3 | 2281.8 | 1061.7 | 741.2 | 846.9 | 695.5 | 582.8 | 551.1 | 540.5 |
| 55° | 18911.2 | 16530.8 | 6741.5 | 2135.7 | 940.2 | 676.1 | 764.1 | 674.3 | 549.3 | 521.2 | 514.1 |
| 57.5° | 19775.7 | 17449.8 | 6956.3 | 1933.2 | 788.8 | 628.6 | 658.5 | 640.9 | 515.9 | 485.9 | 485.9 |
| 60° | 19819.7 | 17696.3 | 6854.2 | 1677.9 | 693.7 | 584.5 | 572.2 | 646.2 | 485.9 | 454.2 | 450.7 |
| 62.5° | 19312.6 | 17092.4 | 6322.5 | 1449.0 | 642.6 | 537.0 | 517.6 | 566.9 | 456.0 | 424.3 | 419.0 |
| 65° | 18520.3 | 15551.9 | 5399.9 | 1339.9 | 614.5 | 494.7 | 466.6 | 464.8 | 424.3 | 394.4 | 387.3 |
| 67.5° | 17064.3 | 13590.5 | 4436.8 | 1276.5 | 600.4 | 447.2 | 420.8 | 412.0 | 387.3 | 362.7 | 359.2 |
| 70° | 14918.0 | 11382.6 | 3558.3 | 1250.1 | 593.3 | 397.9 | 376.8 | 366.2 | 345.1 | 325.7 | 324.0 |
| 72.5° | 11606.2 | 9232.9 | 2936.8 | 1232.5 | 589.8 | 352.1 | 329.2 | 315.2 | 302.8 | 285.2 | 285.2 |
| 75° | 8336.7 | 6792.6 | 2241.3 | 1111.0 | 545.8 | 302.8 | 278.2 | 269.4 | 251.8 | 237.7 | 241.2 |
| 77.5° | 5255.6 | 4574.2 | 1475.4 | 816.9 | 422.6 | 243.0 | 221.8 | 216.6 | 202.5 | 183.1 | 195.4 |
| 80° | 3549.5 | 3216.7 | 861.0 | 514.1 | 265.9 | 177.8 | 170.8 | 169.0 | 153.2 | 132.0 | 133.8 |
| 82.5° | 2415.6 | 2369.8 | 447.2 | 292.3 | 153.2 | 103.9 | 100.4 | 103.9 | 86.3 | 70.4 | 70.4 |
| 85° | 943.7 | 1288.8 | 211.3 | 114.4 | 49.3 | 15.8 | 22.9 | 24.6 | 14.1 | 7.0 | 8.8 |
| 87.5° | 17.6 | 132.0 | 5.3 | 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° | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 | 8577.9 |
| 2.5° | 7151.8 | 7135.9 | 7162.3 | 7049.7 | 7072.5 | 7114.8 | 7135.9 | 7148.3 | 7322.6 | 7282.1 | 7393.0 |
| 5° | 5579.5 | 5563.7 | 5665.8 | 5679.9 | 5732.7 | 5722.1 | 5773.2 | 5785.5 | 5848.9 | 5871.8 | 6026.7 |
| 7.5° | 4058.3 | 4127.0 | 4243.2 | 4303.0 | 4392.8 | 4421.0 | 4394.6 | 4459.7 | 4327.7 | 4422.8 | 4450.9 |
| 10° | 3260.7 | 3178.0 | 3128.7 | 3266.0 | 3283.6 | 3413.9 | 3361.1 | 3318.8 | 3396.3 | 3399.8 | 3473.8 |
| 12.5° | 2714.9 | 2537.1 | 2419.1 | 2457.9 | 2500.1 | 2556.5 | 2565.3 | 2649.8 | 2706.1 | 2758.9 | 2803.0 |
| 15° | 2128.6 | 2067.0 | 1959.6 | 1906.8 | 1966.7 | 1989.5 | 2044.1 | 2114.5 | 2174.4 | 2190.3 | 2250.1 |
| 17.5° | 1633.9 | 1644.5 | 1626.8 | 1595.2 | 1632.1 | 1649.7 | 1653.3 | 1655.0 | 1670.9 | 1660.3 | 1748.3 |
| 20° | 1315.2 | 1352.2 | 1396.2 | 1403.2 | 1415.6 | 1424.4 | 1408.5 | 1348.7 | 1350.4 | 1387.4 | 1415.6 |
| 22.5° | 1190.2 | 1197.2 | 1246.5 | 1262.4 | 1301.1 | 1285.3 | 1239.5 | 1211.3 | 1207.8 | 1216.6 | 1230.7 |
| 25° | 1091.6 | 1102.2 | 1137.4 | 1162.0 | 1192.0 | 1163.8 | 1130.3 | 1103.9 | 1100.4 | 1109.2 | 1123.3 |
| 27.5° | 1003.6 | 1019.4 | 1051.1 | 1075.8 | 1103.9 | 1077.5 | 1045.8 | 1022.9 | 1021.2 | 1019.4 | 1028.2 |
| 30° | 933.1 | 950.8 | 973.6 | 1001.8 | 1021.2 | 998.3 | 968.4 | 956.0 | 954.3 | 950.8 | 954.3 |
| 32.5° | 862.7 | 890.9 | 913.8 | 927.9 | 947.2 | 929.6 | 906.7 | 899.7 | 887.4 | 876.8 | 871.5 |
| 35° | 783.5 | 813.4 | 848.6 | 866.2 | 885.6 | 868.0 | 852.2 | 822.2 | 801.1 | 799.3 | 802.9 |
| 37.5° | 737.7 | 750.0 | 778.2 | 808.1 | 827.5 | 818.7 | 788.8 | 758.8 | 753.6 | 753.6 | 757.1 |
| 40° | 697.2 | 702.5 | 714.8 | 753.6 | 788.8 | 762.4 | 725.4 | 716.6 | 716.6 | 714.8 | 716.6 |
| 42.5° | 656.7 | 662.0 | 662.0 | 691.9 | 748.3 | 706.0 | 677.9 | 677.9 | 677.9 | 679.6 | 684.9 |
| 45° | 619.8 | 621.5 | 619.8 | 640.9 | 693.7 | 658.5 | 639.1 | 644.4 | 647.9 | 651.4 | 655.0 |
| 47.5° | 588.1 | 589.8 | 588.1 | 605.7 | 632.1 | 618.0 | 607.4 | 614.5 | 621.5 | 626.8 | 630.3 |
| 50° | 559.9 | 558.1 | 561.6 | 572.2 | 584.5 | 588.1 | 581.0 | 591.6 | 595.1 | 602.1 | 610.9 |
| 52.5° | 535.2 | 533.5 | 537.0 | 542.3 | 559.9 | 559.9 | 559.9 | 568.7 | 575.7 | 582.8 | 595.1 |
| 55° | 507.1 | 508.8 | 514.1 | 521.2 | 544.0 | 540.5 | 542.3 | 549.3 | 556.4 | 566.9 | 574.0 |
| 57.5° | 480.7 | 484.2 | 491.2 | 501.8 | 524.7 | 522.9 | 524.7 | 528.2 | 537.0 | 542.3 | 549.3 |
| 60° | 450.7 | 457.8 | 466.6 | 473.6 | 496.5 | 494.7 | 503.5 | 510.6 | 515.9 | 515.9 | 519.4 |
| 62.5° | 420.8 | 431.4 | 440.2 | 445.4 | 470.1 | 471.9 | 484.2 | 489.5 | 493.0 | 489.5 | 494.7 |
| 65° | 390.9 | 406.7 | 410.2 | 417.3 | 441.9 | 443.7 | 457.8 | 470.1 | 466.6 | 463.1 | 471.9 |
| 67.5° | 360.9 | 380.3 | 378.5 | 387.3 | 412.0 | 415.5 | 427.8 | 449.0 | 441.9 | 438.4 | 445.4 |
| 70° | 327.5 | 341.6 | 343.3 | 348.6 | 382.1 | 376.8 | 396.1 | 415.5 | 410.2 | 412.0 | 412.0 |
| 72.5° | 290.5 | 302.8 | 302.8 | 313.4 | 348.6 | 339.8 | 355.7 | 376.8 | 376.8 | 375.0 | 375.0 |
| 75° | 246.5 | 253.5 | 260.6 | 276.4 | 313.4 | 302.8 | 313.4 | 332.8 | 336.3 | 332.8 | 332.8 |
| 77.5° | 199.0 | 209.5 | 213.0 | 234.2 | 260.6 | 258.8 | 269.4 | 278.2 | 285.2 | 281.7 | 281.7 |
| 80° | 140.9 | 151.4 | 165.5 | 188.4 | 204.2 | 209.5 | 214.8 | 221.8 | 225.4 | 225.4 | 228.9 |
| 82.5° | 79.2 | 95.1 | 107.4 | 130.3 | 137.3 | 163.7 | 162.0 | 167.3 | 162.0 | 142.6 | 158.5 |
| 85° | 17.6 | 33.5 | 47.5 | 59.9 | 68.7 | 95.1 | 100.4 | 112.7 | 93.3 | 86.3 | 86.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.1 | 28.2 | 38.7 | 33.5 | 28.2 | 28.2 |
| 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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| 22.5° | 1288.8 | 1399.7 | 1662.1 | 2227.2 | 3007.2 | 4063.6 | 5725.6 | 7961.7 | 8734.6 | 9042.7 |
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| 27.5° | 1063.4 | 1105.7 | 1197.2 | 1463.1 | 2237.8 | 3602.3 | 6118.3 | 9695.9 | 10743.5 | 11048.1 |
| 30° | 964.8 | 1021.2 | 1107.5 | 1299.4 | 2003.6 | 3399.8 | 6384.1 | 10435.4 | 11560.5 | 11843.9 |
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| 62.5° | 535.2 | 727.1 | 589.8 | 609.2 | 795.8 | 2163.8 | 9208.2 | 17969.2 | 19157.7 | 19286.2 |
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| 70° | 433.1 | 445.4 | 450.7 | 480.7 | 693.7 | 1545.9 | 6891.2 | 14152.1 | 16088.9 | 16286.0 |
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| 75° | 345.1 | 352.1 | 359.2 | 382.1 | 625.0 | 1271.2 | 3810.1 | 9116.7 | 10673.1 | 11157.3 |
| 77.5° | 297.6 | 297.6 | 306.4 | 329.2 | 526.4 | 1049.3 | 2556.5 | 6394.7 | 7231.0 | 7725.7 |
| 80° | 241.2 | 243.0 | 239.4 | 264.1 | 387.3 | 718.3 | 1452.5 | 4271.3 | 4811.9 | 4906.9 |
| 82.5° | 184.9 | 179.6 | 181.3 | 193.7 | 288.7 | 489.5 | 774.7 | 2653.3 | 2704.4 | 2651.5 |
| 85° | 116.2 | 116.2 | 112.7 | 126.8 | 184.9 | 255.3 | 422.6 | 1625.1 | 1269.4 | 1207.8 |
| 87.5° | 47.5 | 38.7 | 44.0 | 51.1 | 88.0 | 103.9 | 165.5 | 334.5 | 128.5 | 118.0 |
| 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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