

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: P455886

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22875 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

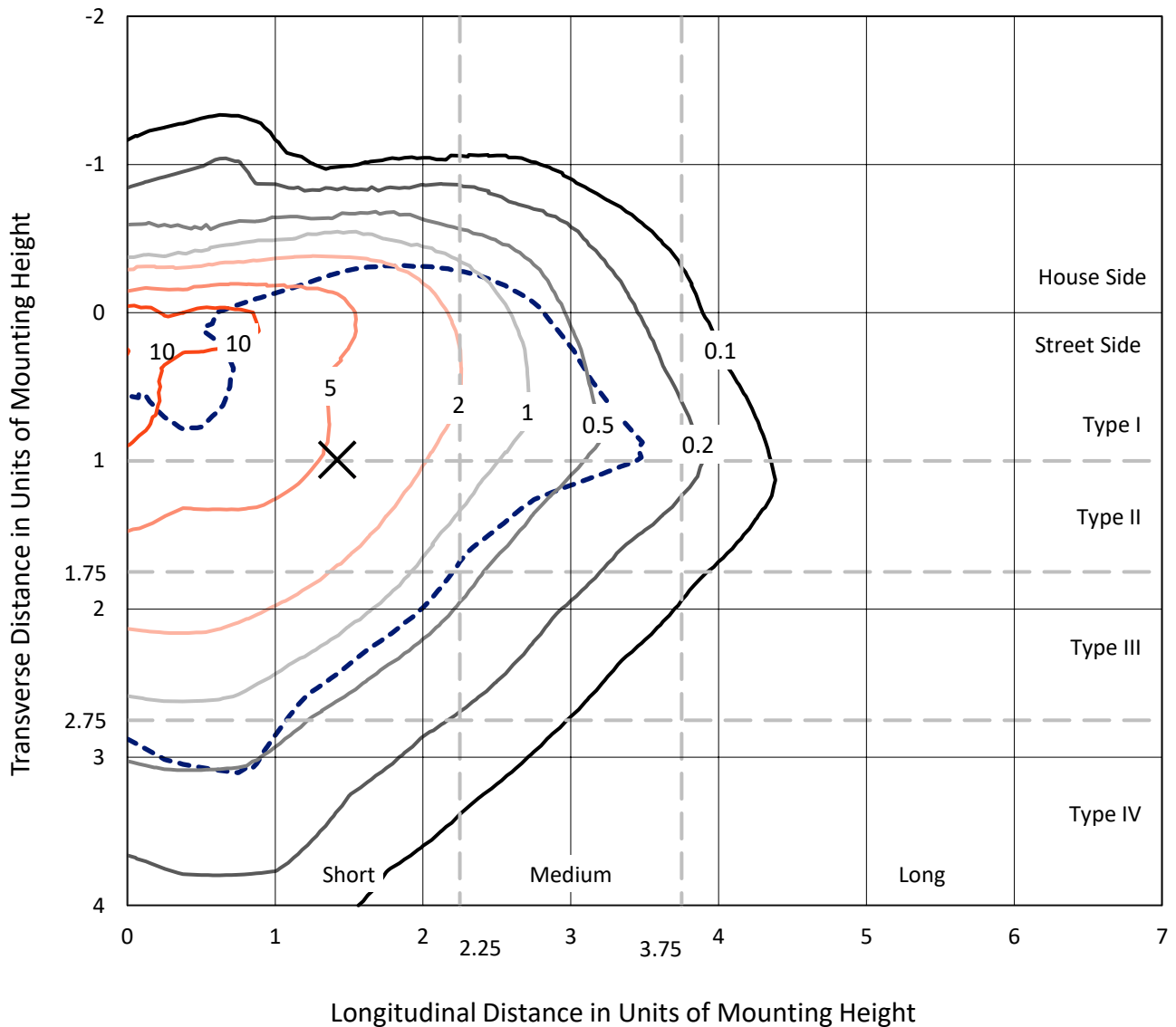
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455886
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Iso-Footcandle Lines of Horizontal Illumination

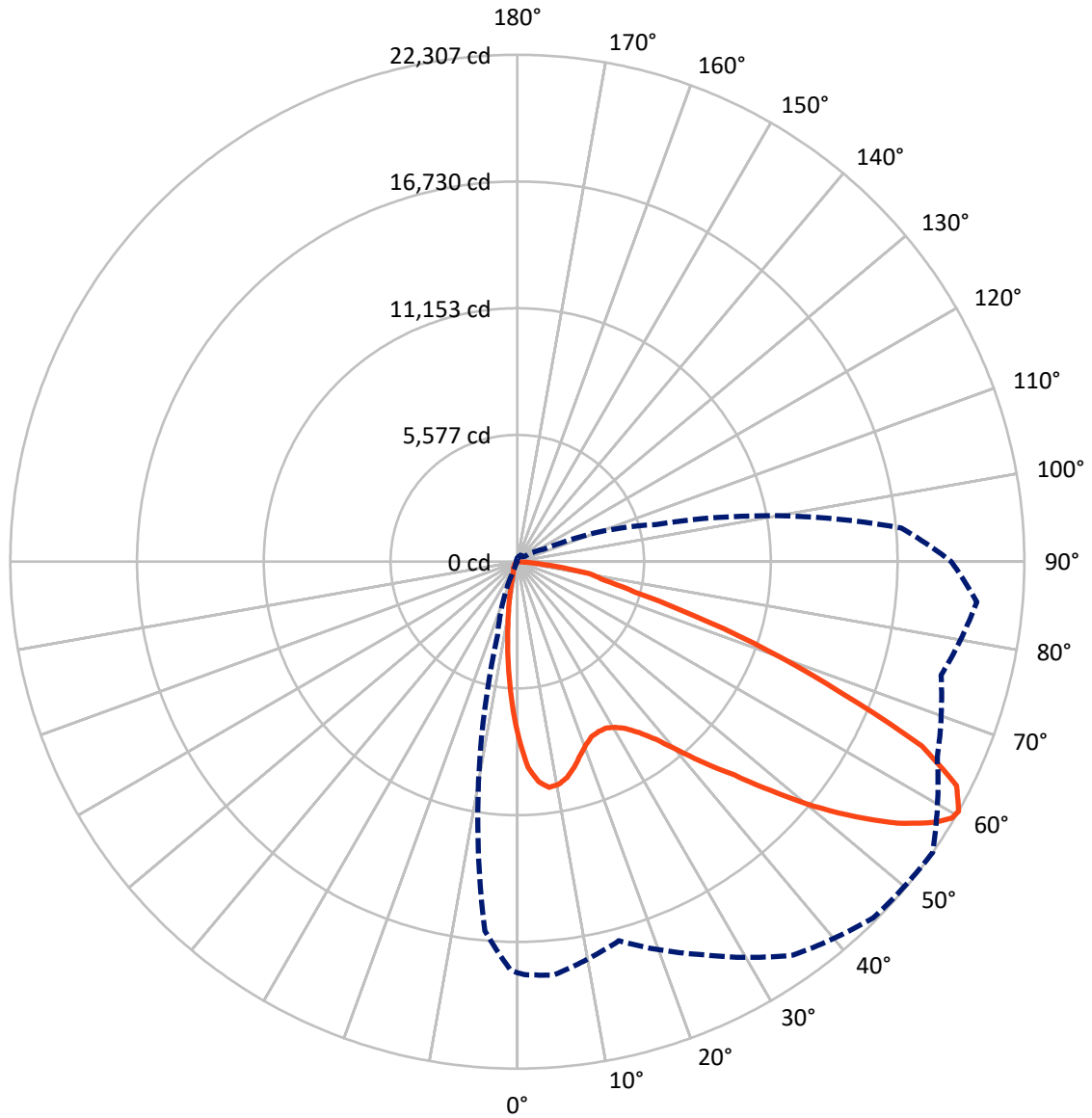
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3394.8 | 0.0 | 3394.8 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 19480.2 | 0.0 | 19480.2 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 22875.0 | 0.0 | 22875.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 573.6 | 2.5 |
| 10°-20° | 1129.5 | 4.9 |
| 20°-30° | 1671.8 | 7.3 |
| 30°-40° | 2492.0 | 10.9 |
| 40°-50° | 3649.6 | 16.0 |
| 50°-60° | 5268.9 | 23.0 |
| 60°-70° | 5542.6 | 24.2 |
| 70°-80° | 2280.0 | 10.0 |
| 80°-90° | 267.0 | 1.2 |
| 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° | 22875.0 | 100.0 |
| 0°-180° | 22875.0 | 100.0 |

Coefficient of Utilization



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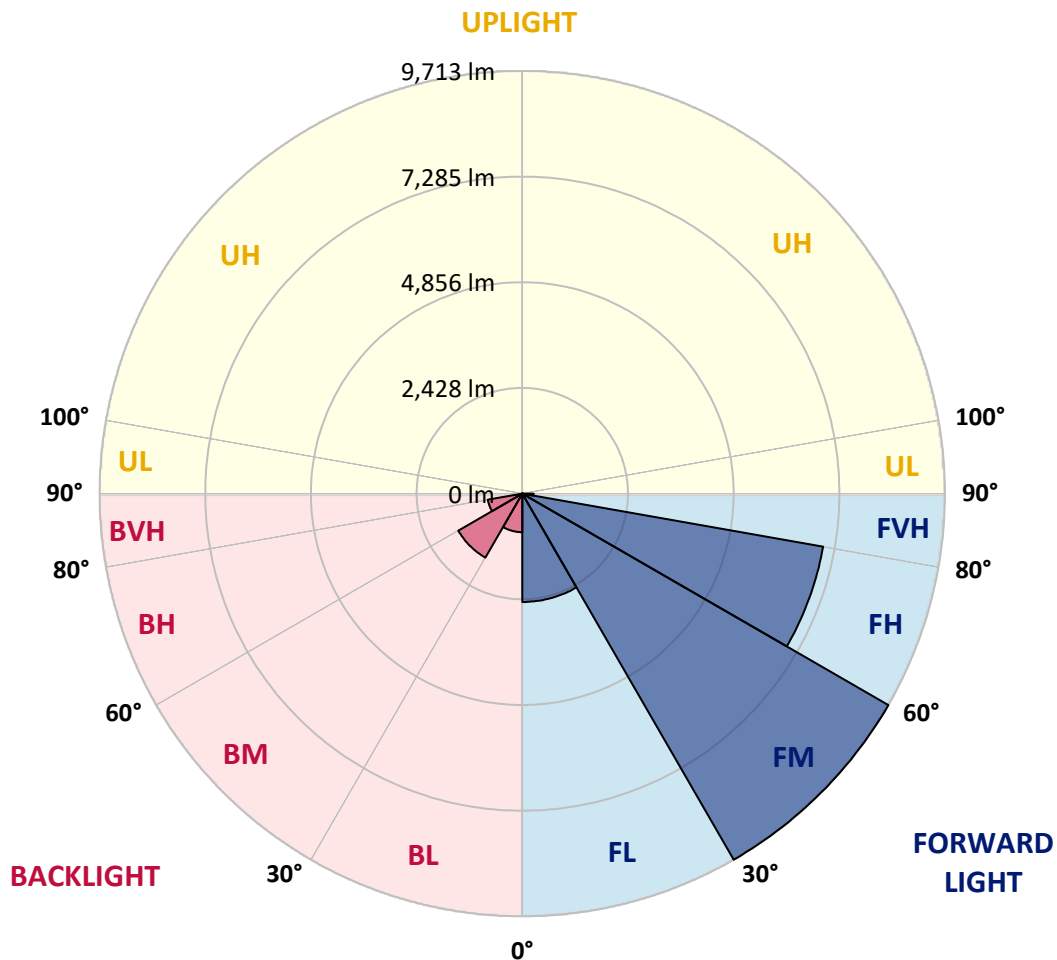
CATALOG NUMBER: GALN-SA7A-760-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2489.1 | 10.9 | | | |
| FM (30°-60°) | 9712.8 | 42.5 | | | |
| FH (60°-80°) | 7019.1 | 30.7 | | | G3/7500 |
| FVH (80°-90°) | 259.2 | 1.1 | | | G3/500 |
| BL (0°-30°) | 885.7 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1697.7 | 7.4 | B2/2500 | | |
| BH (60°-80°) | 803.5 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.9 | 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-G3

Type III Short





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

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 |
| 2.5° | 8462.0 | 8447.9 | 8573.0 | 8777.2 | 8983.2 | 9090.6 | 9069.5 | 9060.7 | 8889.9 | 8764.9 | 8502.5 |
| 5° | 8444.4 | 8516.6 | 8740.2 | 9293.1 | 9712.1 | 9914.6 | 9974.5 | 9722.7 | 9389.9 | 8907.5 | 8312.4 |
| 7.5° | 7939.1 | 8028.9 | 8393.4 | 9257.9 | 10002.7 | 10442.8 | 10427.0 | 10023.8 | 9337.1 | 8590.6 | 7741.9 |
| 10° | 7312.3 | 7417.9 | 7845.8 | 8895.2 | 9861.8 | 10442.8 | 10474.5 | 9963.9 | 9110.0 | 8152.1 | 7259.5 |
| 12.5° | 6870.3 | 6995.3 | 7469.0 | 8557.1 | 9499.1 | 10071.3 | 10108.3 | 9738.5 | 8939.2 | 7983.1 | 6997.1 |
| 15° | 6720.7 | 6838.6 | 7319.3 | 8386.3 | 9113.5 | 9421.6 | 9412.8 | 9374.1 | 8872.3 | 8023.6 | 7011.2 |
| 17.5° | 6977.7 | 7074.6 | 7616.9 | 8463.8 | 8752.5 | 8720.9 | 8766.6 | 8953.3 | 8886.4 | 8363.4 | 7454.9 |
| 20° | 7641.5 | 7740.1 | 8322.9 | 8701.5 | 8476.1 | 8275.4 | 8296.5 | 8608.2 | 9016.7 | 9002.6 | 8148.6 |
| 22.5° | 8555.3 | 8722.6 | 9250.8 | 9162.8 | 8439.1 | 7999.0 | 7954.9 | 8359.9 | 9238.5 | 9738.5 | 9085.3 |
| 25° | 9712.1 | 9881.2 | 10293.2 | 9898.8 | 8620.5 | 7933.8 | 7893.3 | 8284.2 | 9507.9 | 10456.9 | 10140.0 |
| 27.5° | 10684.1 | 10812.6 | 11222.8 | 10615.4 | 8888.1 | 7962.0 | 7895.1 | 8294.8 | 9726.2 | 11067.9 | 11029.2 |
| 30° | 11462.3 | 11557.4 | 11798.6 | 10949.9 | 9118.8 | 8085.2 | 8007.8 | 8449.7 | 9823.1 | 11365.5 | 11749.3 |
| 32.5° | 12089.1 | 12249.3 | 12325.0 | 11307.4 | 9449.8 | 8317.6 | 8185.6 | 8747.3 | 10059.0 | 11733.4 | 12504.6 |
| 35° | 12805.7 | 12990.6 | 12893.8 | 11648.9 | 9886.4 | 8680.4 | 8518.4 | 9229.7 | 10416.4 | 12073.3 | 13381.5 |
| 37.5° | 13714.3 | 13927.3 | 13548.7 | 12008.1 | 10347.8 | 9226.2 | 9150.5 | 9907.6 | 10958.7 | 12559.2 | 14321.7 |
| 40° | 14654.5 | 14777.7 | 14184.4 | 12444.8 | 10914.7 | 10020.3 | 10092.5 | 10914.7 | 11668.3 | 13142.0 | 15321.8 |
| 42.5° | 15388.7 | 15504.9 | 14837.6 | 12811.0 | 11494.0 | 10962.2 | 11263.3 | 12129.6 | 12481.8 | 13738.9 | 16068.3 |
| 45° | 15950.4 | 16049.0 | 15290.1 | 13210.7 | 12275.7 | 12326.8 | 12895.5 | 13381.5 | 13297.0 | 14103.4 | 16644.1 |
| 47.5° | 16387.0 | 16471.5 | 15638.7 | 13640.3 | 13446.6 | 13996.0 | 14865.8 | 15071.8 | 14142.1 | 14497.8 | 17165.3 |
| 50° | 16566.6 | 16591.3 | 15747.9 | 14187.9 | 14776.0 | 16122.9 | 17029.7 | 16904.7 | 15110.5 | 14936.2 | 17719.9 |
| 52.5° | 16800.8 | 16795.5 | 16059.5 | 14709.1 | 16026.1 | 18024.5 | 18929.5 | 18646.0 | 16205.7 | 15592.9 | 18343.2 |
| 55° | 17415.3 | 17422.3 | 16726.8 | 15448.6 | 17091.3 | 19559.8 | 20528.2 | 20322.2 | 17360.7 | 16702.2 | 19070.4 |
| 57.5° | 18161.8 | 18188.2 | 17675.9 | 16313.1 | 18109.0 | 20672.6 | 21722.0 | 21642.8 | 18922.5 | 17936.5 | 19757.1 |
| 59° | 18258.7 | 18311.5 | 18124.9 | 16922.3 | 18712.9 | 21014.2 | 22130.5 | 22208.0 | 19758.8 | 18749.9 | 20128.6 |
| 60° | 18082.6 | 18170.6 | 18255.2 | 17267.4 | 19066.8 | 21137.5 | 22155.2 | 22306.6 | 20387.4 | 19302.8 | 20297.6 |
| 62.5° | 17314.9 | 17454.0 | 17878.4 | 18329.1 | 19508.8 | 20753.6 | 21368.1 | 21685.0 | 21165.6 | 20755.4 | 20313.4 |
| 65° | 16309.6 | 16381.7 | 16994.5 | 18517.5 | 18651.3 | 18961.2 | 19151.4 | 19558.1 | 20230.7 | 21315.3 | 19586.3 |
| 67.5° | 14661.5 | 14874.6 | 15624.6 | 17424.1 | 16121.2 | 15754.9 | 15707.4 | 15302.4 | 17049.1 | 19980.7 | 17793.8 |
| 70° | 12112.0 | 12207.1 | 13131.5 | 14284.7 | 12166.6 | 11603.2 | 11828.5 | 11677.1 | 13216.0 | 17200.5 | 14321.7 |
| 72.5° | 9159.3 | 9374.1 | 10277.3 | 11386.6 | 8278.9 | 7548.2 | 8169.7 | 8113.4 | 9926.9 | 13823.4 | 9838.9 |
| 75° | 6516.4 | 6655.5 | 7807.0 | 8911.0 | 5798.1 | 4912.4 | 5136.0 | 5345.5 | 6930.2 | 10914.7 | 5813.9 |
| 77.5° | 4477.5 | 4597.2 | 5461.8 | 5893.1 | 4229.3 | 4051.4 | 3706.3 | 3908.8 | 4540.9 | 6475.9 | 3164.0 |
| 80° | 2700.9 | 2695.7 | 3264.4 | 3370.0 | 2945.7 | 3421.1 | 2870.0 | 3222.1 | 2745.0 | 2771.4 | 1225.5 |
| 82.5° | 1753.7 | 1736.1 | 1996.7 | 2176.3 | 1639.2 | 1723.7 | 1156.8 | 1667.4 | 1788.9 | 773.0 | 387.4 |
| 85° | 785.3 | 818.7 | 959.6 | 1266.0 | 718.4 | 382.1 | 235.9 | 512.4 | 762.4 | 389.1 | 0.0 |
| 87.5° | 81.0 | 63.4 | 169.0 | 308.1 | 98.6 | 10.6 | 35.2 | 17.6 | 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-SA7A-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 |
| 2.5° | 8381.0 | 8278.9 | 7974.3 | 7689.1 | 7444.3 | 7145.0 | 6951.3 | 6646.7 | 6461.8 | 6405.5 | 6414.3 |
| 5° | 8044.7 | 7750.7 | 7171.4 | 6708.3 | 6192.5 | 5898.4 | 5451.2 | 5021.6 | 4789.2 | 4702.9 | 4664.1 |
| 7.5° | 7340.4 | 7025.3 | 6326.3 | 5599.1 | 5046.2 | 4530.3 | 4197.6 | 3819.0 | 3560.2 | 3347.1 | 3310.2 |
| 10° | 6817.5 | 6403.7 | 5537.5 | 4755.7 | 4319.0 | 3931.7 | 3598.9 | 3220.4 | 2915.8 | 2672.8 | 2605.9 |
| 12.5° | 6504.1 | 6041.0 | 5074.4 | 4419.4 | 4005.6 | 3607.7 | 3174.6 | 2736.2 | 2424.5 | 2162.2 | 2040.7 |
| 15° | 6447.8 | 5910.7 | 4944.1 | 4178.2 | 3667.6 | 3186.9 | 2611.1 | 2137.5 | 1817.1 | 1568.8 | 1493.1 |
| 17.5° | 6787.6 | 6144.9 | 4924.7 | 3926.4 | 3225.6 | 2544.2 | 1945.6 | 1553.0 | 1192.0 | 1052.9 | 998.3 |
| 20° | 7393.3 | 6558.7 | 4923.0 | 3634.1 | 2771.4 | 1959.7 | 1366.3 | 1012.4 | 866.3 | 799.4 | 767.7 |
| 22.5° | 8219.0 | 7122.1 | 5016.3 | 3382.3 | 2299.5 | 1445.6 | 975.4 | 806.4 | 721.9 | 667.3 | 655.0 |
| 25° | 9227.9 | 7956.7 | 5245.2 | 3211.6 | 1938.6 | 1133.9 | 804.6 | 690.2 | 619.8 | 595.1 | 584.6 |
| 27.5° | 10124.1 | 8756.1 | 5497.0 | 3035.5 | 1679.7 | 1003.6 | 746.5 | 632.1 | 575.8 | 556.4 | 540.5 |
| 30° | 10897.1 | 9481.5 | 5618.5 | 2803.1 | 1472.0 | 919.1 | 757.1 | 676.1 | 602.2 | 544.1 | 517.7 |
| 32.5° | 11541.5 | 10037.9 | 5697.7 | 2591.8 | 1295.9 | 751.8 | 598.6 | 522.9 | 489.5 | 468.4 | 450.7 |
| 35° | 12347.9 | 10640.0 | 5650.2 | 2472.1 | 1206.1 | 684.9 | 545.8 | 450.7 | 394.4 | 352.1 | 334.5 |
| 37.5° | 13193.1 | 11242.2 | 5567.4 | 2373.5 | 1165.6 | 635.6 | 519.4 | 427.9 | 366.2 | 322.2 | 299.3 |
| 40° | 14068.2 | 11800.4 | 5470.6 | 2281.9 | 1128.6 | 603.9 | 503.6 | 408.5 | 346.9 | 299.3 | 274.7 |
| 42.5° | 14869.3 | 12344.4 | 5431.8 | 2222.0 | 1068.8 | 609.2 | 491.2 | 399.7 | 327.5 | 278.2 | 257.1 |
| 45° | 15517.2 | 12860.3 | 5484.6 | 2190.3 | 1003.6 | 600.4 | 494.8 | 389.1 | 311.6 | 264.1 | 243.0 |
| 47.5° | 16209.2 | 13589.2 | 5655.4 | 2158.6 | 940.2 | 558.1 | 521.2 | 387.4 | 304.6 | 255.3 | 232.4 |
| 50° | 17013.8 | 14522.4 | 6046.3 | 2081.2 | 862.8 | 512.4 | 554.6 | 385.6 | 295.8 | 244.7 | 221.9 |
| 52.5° | 18086.1 | 15582.4 | 6449.5 | 1945.6 | 750.1 | 468.4 | 530.0 | 380.3 | 278.2 | 232.4 | 209.5 |
| 55° | 19049.2 | 16698.7 | 6791.1 | 1785.4 | 607.4 | 405.0 | 477.2 | 357.4 | 248.3 | 211.3 | 190.2 |
| 57.5° | 19447.2 | 17329.0 | 6780.5 | 1563.5 | 486.0 | 355.7 | 392.6 | 327.5 | 216.6 | 186.6 | 169.0 |
| 59° | 19301.0 | 17249.8 | 6553.4 | 1399.8 | 443.7 | 329.3 | 325.7 | 324.0 | 202.5 | 169.0 | 154.9 |
| 60° | 19095.0 | 16961.0 | 6308.7 | 1318.8 | 417.3 | 311.6 | 299.3 | 320.5 | 190.2 | 158.5 | 144.4 |
| 62.5° | 18306.2 | 15763.7 | 5497.0 | 1181.4 | 382.1 | 264.1 | 239.5 | 271.2 | 169.0 | 137.3 | 125.0 |
| 65° | 17163.5 | 13923.8 | 4653.6 | 1142.7 | 371.5 | 218.3 | 199.0 | 193.7 | 144.4 | 116.2 | 105.6 |
| 67.5° | 14934.4 | 11782.7 | 3769.7 | 1116.3 | 375.0 | 183.1 | 174.3 | 146.1 | 119.7 | 96.8 | 89.8 |
| 70° | 11957.1 | 9187.4 | 3086.5 | 1086.4 | 378.6 | 149.7 | 146.1 | 116.2 | 96.8 | 81.0 | 74.0 |
| 72.5° | 7264.7 | 5445.9 | 2429.8 | 943.7 | 368.0 | 119.7 | 130.3 | 88.0 | 70.4 | 58.1 | 54.6 |
| 75° | 4491.6 | 3727.4 | 1507.2 | 734.2 | 243.0 | 88.0 | 91.6 | 54.6 | 47.5 | 37.0 | 37.0 |
| 77.5° | 2602.3 | 2354.1 | 538.8 | 264.1 | 107.4 | 52.8 | 40.5 | 28.2 | 26.4 | 15.8 | 15.8 |
| 80° | 1079.3 | 864.5 | 186.6 | 89.8 | 58.1 | 24.7 | 8.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 315.2 | 280.0 | 51.1 | 40.5 | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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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CATALOG NUMBER: GALN-SA7A-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 |
| 2.5° | 6264.6 | 6206.5 | 6180.1 | 6269.9 | 6187.2 | 6292.8 | 6211.8 | 6247.0 | 6350.9 | 6396.7 | 6514.7 |
| 5° | 4688.8 | 4628.9 | 4600.8 | 4736.3 | 4729.3 | 4796.2 | 4789.2 | 4850.8 | 4903.6 | 4785.6 | 4907.1 |
| 7.5° | 3266.1 | 3225.6 | 3292.5 | 3398.2 | 3510.9 | 3473.9 | 3473.9 | 3391.1 | 3419.3 | 3401.7 | 3396.4 |
| 10° | 2484.4 | 2345.3 | 2310.1 | 2306.5 | 2348.8 | 2357.6 | 2310.1 | 2195.6 | 2237.9 | 2250.2 | 2324.2 |
| 12.5° | 1954.4 | 1847.0 | 1683.2 | 1609.3 | 1589.9 | 1605.8 | 1449.1 | 1348.7 | 1396.3 | 1368.1 | 1440.3 |
| 15° | 1401.5 | 1313.5 | 1216.7 | 1133.9 | 1111.0 | 1079.3 | 908.5 | 788.8 | 774.7 | 780.0 | 792.3 |
| 17.5° | 1000.1 | 940.2 | 940.2 | 852.2 | 804.6 | 709.6 | 623.3 | 570.5 | 565.2 | 570.5 | 579.3 |
| 20° | 737.7 | 706.0 | 702.5 | 679.6 | 626.8 | 563.4 | 503.6 | 493.0 | 489.5 | 498.3 | 501.8 |
| 22.5° | 635.6 | 602.2 | 574.0 | 572.2 | 522.9 | 470.1 | 441.9 | 427.9 | 429.6 | 433.1 | 441.9 |
| 25° | 568.7 | 533.5 | 503.6 | 486.0 | 450.7 | 413.8 | 387.4 | 380.3 | 380.3 | 385.6 | 387.4 |
| 27.5° | 521.2 | 477.2 | 450.7 | 426.1 | 394.4 | 362.7 | 339.8 | 334.5 | 331.0 | 334.5 | 343.3 |
| 30° | 487.7 | 443.7 | 410.2 | 373.3 | 348.6 | 318.7 | 299.3 | 292.3 | 290.5 | 292.3 | 299.3 |
| 32.5° | 417.3 | 390.9 | 364.5 | 331.0 | 301.1 | 281.7 | 260.6 | 248.3 | 248.3 | 251.8 | 258.8 |
| 35° | 315.2 | 301.1 | 299.3 | 290.5 | 265.9 | 244.7 | 220.1 | 207.8 | 207.8 | 214.8 | 218.3 |
| 37.5° | 278.2 | 251.8 | 248.3 | 244.7 | 234.2 | 206.0 | 183.1 | 172.6 | 170.8 | 176.1 | 183.1 |
| 40° | 253.5 | 223.6 | 207.8 | 204.2 | 206.0 | 174.3 | 149.7 | 139.1 | 139.1 | 140.9 | 147.9 |
| 42.5° | 234.2 | 199.0 | 170.8 | 167.3 | 174.3 | 146.1 | 121.5 | 110.9 | 110.9 | 110.9 | 119.7 |
| 45° | 218.3 | 177.8 | 144.4 | 126.8 | 137.3 | 119.7 | 98.6 | 88.0 | 84.5 | 88.0 | 91.6 |
| 47.5° | 207.8 | 162.0 | 126.8 | 102.1 | 102.1 | 95.1 | 79.2 | 66.9 | 63.4 | 65.1 | 70.4 |
| 50° | 199.0 | 147.9 | 107.4 | 82.8 | 74.0 | 75.7 | 59.9 | 51.1 | 47.5 | 47.5 | 52.8 |
| 52.5° | 184.9 | 133.8 | 93.3 | 70.4 | 56.3 | 51.1 | 44.0 | 37.0 | 35.2 | 37.0 | 40.5 |
| 55° | 167.3 | 121.5 | 81.0 | 58.1 | 44.0 | 35.2 | 31.7 | 26.4 | 24.7 | 26.4 | 31.7 |
| 57.5° | 147.9 | 102.1 | 65.1 | 45.8 | 29.9 | 22.9 | 21.1 | 17.6 | 14.1 | 15.8 | 19.4 |
| 59° | 135.6 | 91.6 | 56.3 | 37.0 | 22.9 | 15.8 | 15.8 | 12.3 | 8.8 | 10.6 | 15.8 |
| 60° | 130.3 | 84.5 | 47.5 | 31.7 | 19.4 | 12.3 | 12.3 | 8.8 | 5.3 | 7.0 | 12.3 |
| 62.5° | 110.9 | 70.4 | 37.0 | 19.4 | 8.8 | 1.8 | 5.3 | 1.8 | 0.0 | 1.8 | 5.3 |
| 65° | 93.3 | 56.3 | 24.7 | 8.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| 67.5° | 77.5 | 42.3 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 61.6 | 28.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 42.3 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 26.4 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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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| 59° | 33.5 | 52.8 | 74.0 | 88.0 | 116.2 | 160.2 | 3442.2 | 16603.6 | 18137.2 | 18258.7 |
| 60° | 28.2 | 47.5 | 65.1 | 82.8 | 107.4 | 151.4 | 3355.9 | 16309.6 | 17947.0 | 18082.6 |
| 62.5° | 21.1 | 37.0 | 47.5 | 66.9 | 88.0 | 130.3 | 2947.4 | 15283.1 | 17219.9 | 17314.9 |
| 65° | 14.1 | 26.4 | 35.2 | 49.3 | 68.7 | 112.7 | 2401.6 | 13952.0 | 16096.5 | 16309.6 |
| 67.5° | 8.8 | 19.4 | 28.2 | 37.0 | 56.3 | 95.1 | 1711.4 | 11964.1 | 14524.2 | 14661.5 |
| 70° | 5.3 | 12.3 | 21.1 | 29.9 | 44.0 | 75.7 | 1015.9 | 9456.8 | 12083.8 | 12112.0 |
| 72.5° | 3.5 | 8.8 | 14.1 | 21.1 | 35.2 | 68.7 | 493.0 | 6164.3 | 8823.0 | 9159.3 |
| 75° | 1.8 | 5.3 | 8.8 | 15.8 | 28.2 | 56.3 | 235.9 | 4118.3 | 6419.6 | 6516.4 |
| 77.5° | 0.0 | 1.8 | 5.3 | 10.6 | 21.1 | 44.0 | 137.3 | 2704.5 | 4377.2 | 4477.5 |
| 80° | 0.0 | 0.0 | 3.5 | 8.8 | 15.8 | 28.2 | 82.8 | 1595.2 | 2651.6 | 2700.9 |
| 82.5° | 0.0 | 0.0 | 1.8 | 7.0 | 10.6 | 21.1 | 42.3 | 700.8 | 1736.1 | 1753.7 |
| 85° | 0.0 | 0.0 | 1.8 | 7.0 | 8.8 | 14.1 | 15.8 | 95.1 | 771.2 | 785.3 |
| 87.5° | 0.0 | 0.0 | 1.8 | 8.8 | 8.8 | 8.8 | 8.8 | 5.3 | 65.1 | 81.0 |
| 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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