

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: P456118

Luminaire Tested: **GALN-SA7B-760-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456118
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-SA7B-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 800mA 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: 28463 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 286
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

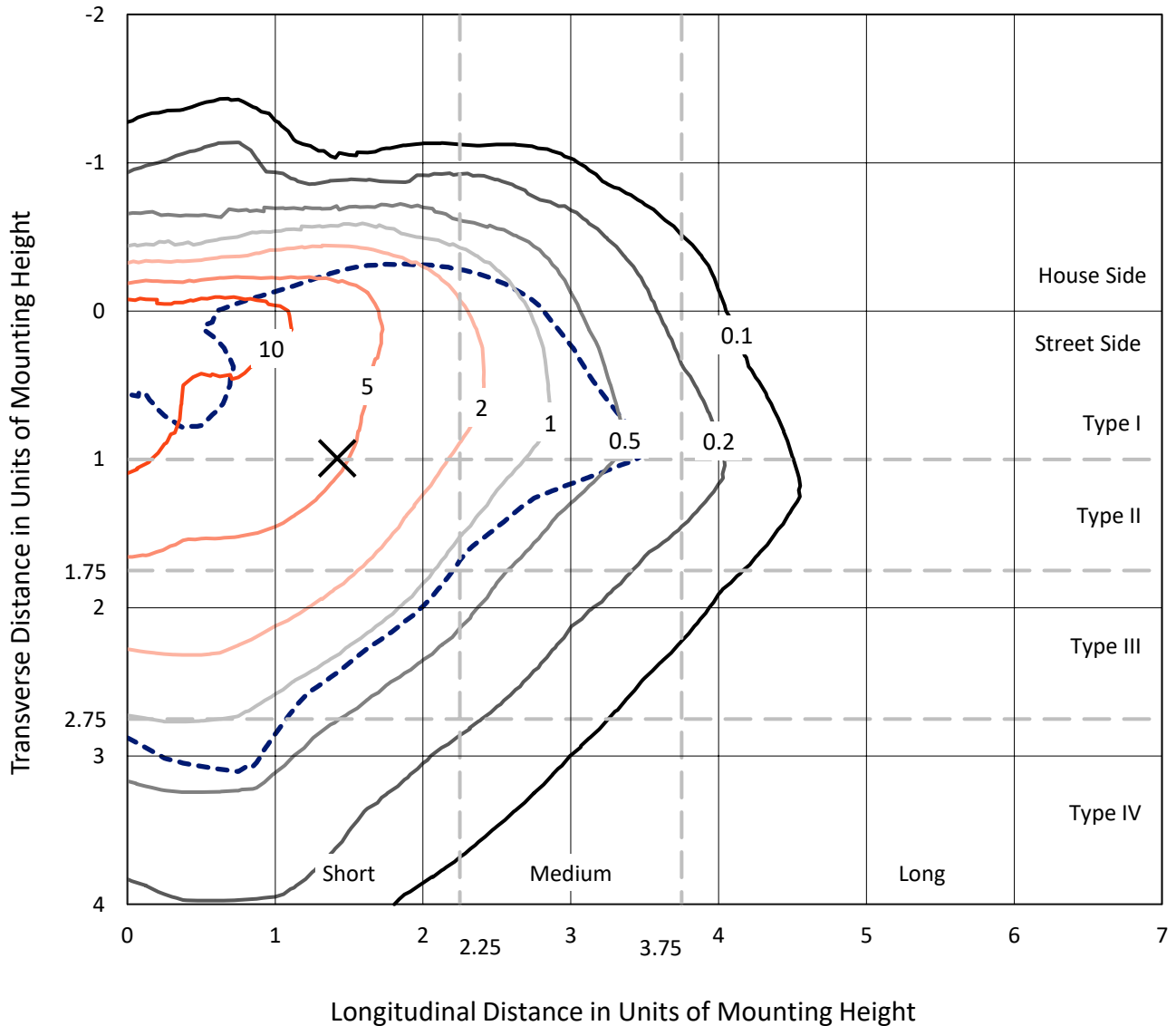




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Iso-Footcandle Lines of Horizontal Illumination

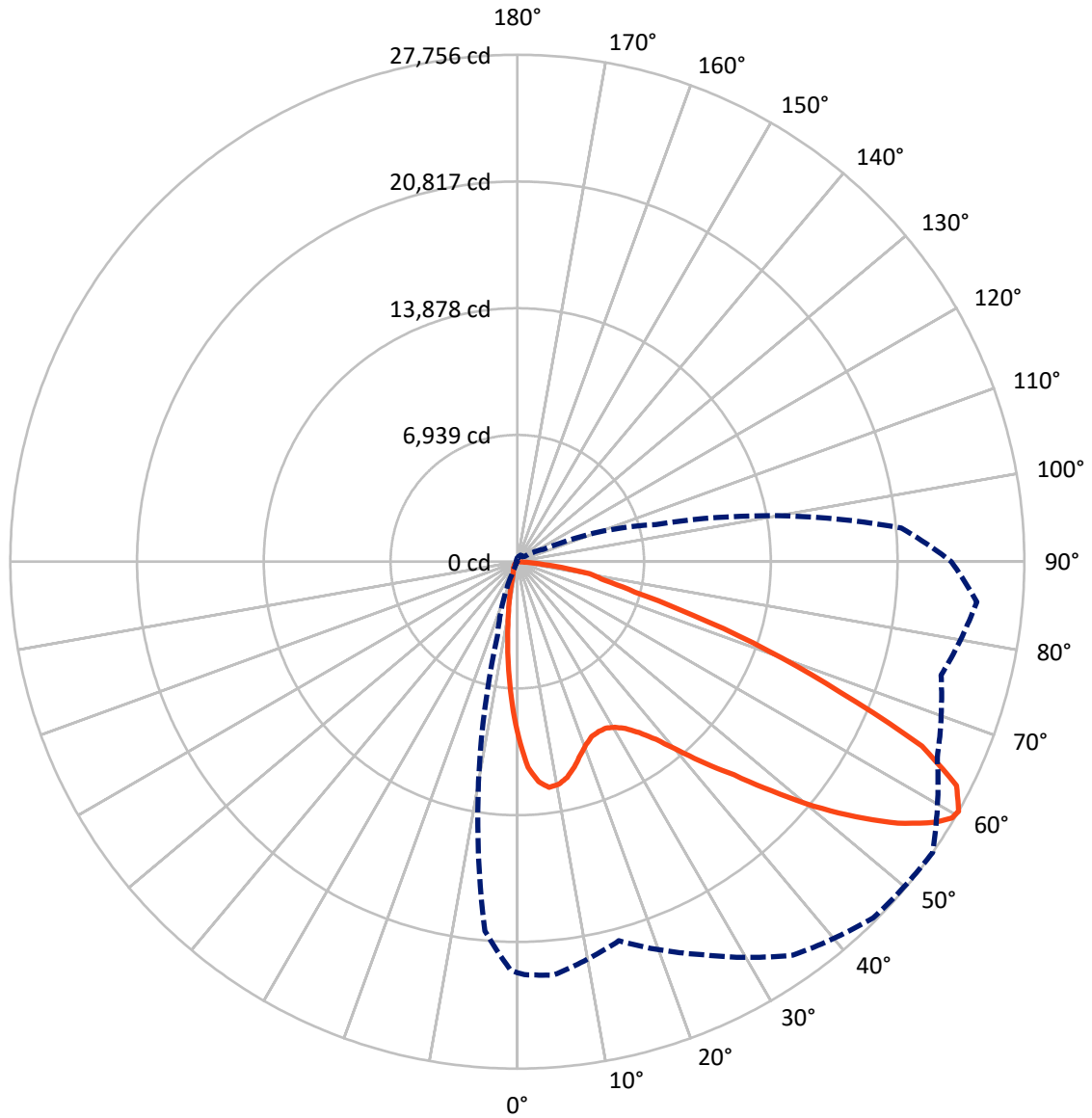
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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 | 4224.2 | 0.0 | 4224.2 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 24238.9 | 0.0 | 24238.9 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 28463.0 | 0.0 | 28463.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 713.7 | 2.5 |
| 10°-20° | 1405.4 | 4.9 |
| 20°-30° | 2080.2 | 7.3 |
| 30°-40° | 3100.8 | 10.9 |
| 40°-50° | 4541.1 | 16.0 |
| 50°-60° | 6556.0 | 23.0 |
| 60°-70° | 6896.6 | 24.2 |
| 70°-80° | 2837.0 | 10.0 |
| 80°-90° | 332.3 | 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° | 28463.0 | 100.0 |
| 0°-180° | 28463.0 | 100.0 |

Coefficient of Utilization



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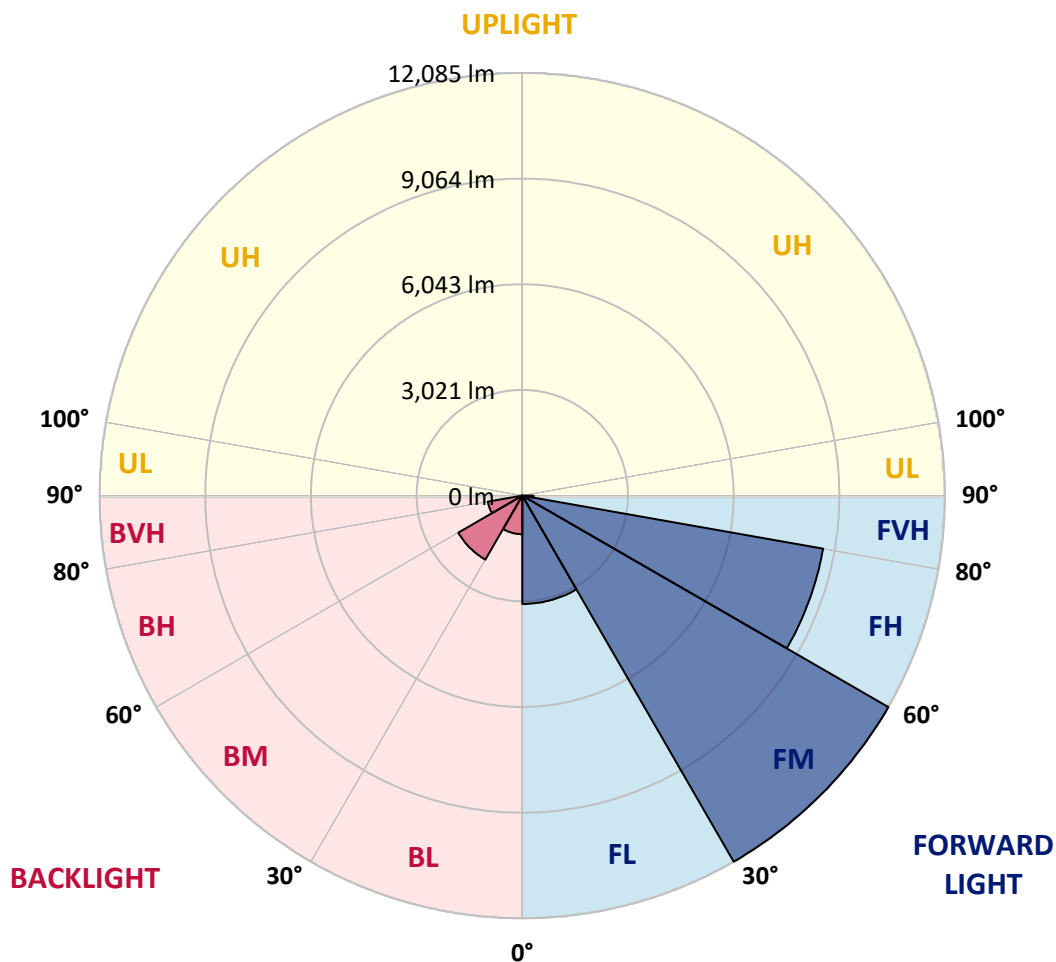
CATALOG NUMBER: GALN-SA7B-760-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3097.2 | 10.9 | | | |
| FM (30°-60°) | 12085.4 | 42.5 | | | |
| FH (60°-80°) | 8733.7 | 30.7 | | | G4/12000 |
| FVH (80°-90°) | 322.5 | 1.1 | | | G3/500 |
| BL (0°-30°) | 1102.1 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2112.5 | 7.4 | B2/2500 | | |
| BH (60°-80°) | 999.8 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P456118

CATALOG NUMBER: GALN-SA7B-760-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 |
| 2.5° | 10529.2 | 10511.6 | 10667.2 | 10921.3 | 11177.7 | 11311.3 | 11285.0 | 11274.0 | 11061.5 | 10906.0 | 10579.6 |
| 5° | 10507.3 | 10597.1 | 10875.3 | 11563.2 | 12084.7 | 12336.6 | 12411.1 | 12097.8 | 11683.7 | 11083.4 | 10342.9 |
| 7.5° | 9878.5 | 9990.2 | 10443.7 | 11519.4 | 12446.1 | 12993.9 | 12974.1 | 12472.4 | 11618.0 | 10689.1 | 9633.1 |
| 10° | 9098.5 | 9230.0 | 9762.4 | 11068.1 | 12270.9 | 12993.9 | 13033.3 | 12397.9 | 11335.4 | 10143.6 | 9032.8 |
| 12.5° | 8548.6 | 8704.2 | 9293.5 | 10647.5 | 11819.6 | 12531.6 | 12577.6 | 12117.5 | 11122.9 | 9933.3 | 8706.4 |
| 15° | 8362.4 | 8509.2 | 9107.3 | 10435.0 | 11339.8 | 11723.2 | 11712.2 | 11664.0 | 11039.6 | 9983.6 | 8723.9 |
| 17.5° | 8682.3 | 8802.8 | 9477.6 | 10531.4 | 10890.7 | 10851.2 | 10908.2 | 11140.4 | 11057.2 | 10406.5 | 9276.0 |
| 20° | 9508.2 | 9630.9 | 10356.1 | 10827.1 | 10546.7 | 10296.9 | 10323.2 | 10711.0 | 11219.3 | 11201.8 | 10139.2 |
| 22.5° | 10645.3 | 10853.4 | 11510.7 | 11401.1 | 10500.7 | 9953.0 | 9898.2 | 10402.1 | 11495.3 | 12117.5 | 11304.7 |
| 25° | 12084.7 | 12295.0 | 12807.6 | 12316.9 | 10726.3 | 9871.9 | 9821.5 | 10307.9 | 11830.5 | 13011.4 | 12617.0 |
| 27.5° | 13294.0 | 13453.9 | 13964.4 | 13208.6 | 11059.3 | 9907.0 | 9823.7 | 10321.0 | 12102.2 | 13771.6 | 13723.4 |
| 30° | 14262.4 | 14380.7 | 14680.8 | 13624.8 | 11346.3 | 10060.3 | 9963.9 | 10513.8 | 12222.7 | 14141.9 | 14619.5 |
| 32.5° | 15042.3 | 15241.7 | 15335.9 | 14069.6 | 11758.2 | 10349.5 | 10185.2 | 10884.1 | 12516.3 | 14599.7 | 15559.3 |
| 35° | 15934.0 | 16164.0 | 16043.5 | 14494.6 | 12301.6 | 10800.8 | 10599.3 | 11484.4 | 12961.0 | 15022.6 | 16650.4 |
| 37.5° | 17064.4 | 17329.5 | 16858.5 | 14941.5 | 12875.6 | 11480.0 | 11385.8 | 12327.8 | 13635.8 | 15627.2 | 17820.3 |
| 40° | 18234.3 | 18387.7 | 17649.4 | 15484.8 | 13581.0 | 12468.1 | 12557.9 | 13581.0 | 14518.7 | 16352.4 | 19064.7 |
| 42.5° | 19147.9 | 19292.5 | 18462.2 | 15940.5 | 14301.8 | 13640.2 | 14014.8 | 15092.7 | 15530.8 | 17095.1 | 19993.6 |
| 45° | 19846.8 | 19969.5 | 19025.2 | 16437.9 | 15274.5 | 15338.1 | 16045.7 | 16650.4 | 16545.2 | 17548.6 | 20710.0 |
| 47.5° | 20390.1 | 20495.3 | 19459.0 | 16972.4 | 16731.4 | 17415.0 | 18497.2 | 18753.6 | 17596.8 | 18039.4 | 21358.5 |
| 50° | 20613.6 | 20644.3 | 19594.8 | 17653.8 | 18385.5 | 20061.5 | 21189.8 | 21034.2 | 18801.8 | 18584.9 | 22048.6 |
| 52.5° | 20905.0 | 20898.4 | 19982.6 | 18302.3 | 19941.0 | 22427.6 | 23553.7 | 23201.0 | 20164.5 | 19402.1 | 22824.1 |
| 55° | 21669.6 | 21678.3 | 20813.0 | 19222.4 | 21266.5 | 24338.0 | 25543.0 | 25286.6 | 21601.7 | 20782.3 | 23729.0 |
| 57.5° | 22598.5 | 22631.3 | 21993.8 | 20298.1 | 22532.8 | 25722.6 | 27028.4 | 26929.8 | 23544.9 | 22318.1 | 24583.4 |
| 59° | 22719.0 | 22784.7 | 22552.5 | 21056.1 | 23284.2 | 26147.6 | 27536.6 | 27633.0 | 24585.6 | 23330.2 | 25045.7 |
| 60° | 22499.9 | 22609.4 | 22714.6 | 21485.5 | 23724.6 | 26301.0 | 27567.3 | 27755.7 | 25367.7 | 24018.1 | 25256.0 |
| 62.5° | 21544.7 | 21717.8 | 22245.8 | 22806.6 | 24274.5 | 25823.4 | 26588.0 | 26982.4 | 26336.1 | 25825.6 | 25275.7 |
| 65° | 20293.7 | 20383.5 | 21146.0 | 23041.0 | 23207.5 | 23593.1 | 23829.7 | 24335.8 | 25172.7 | 26522.3 | 24370.9 |
| 67.5° | 18243.1 | 18508.2 | 19441.5 | 21680.5 | 20059.3 | 19603.6 | 19544.5 | 19040.6 | 21213.9 | 24861.6 | 22140.6 |
| 70° | 15070.8 | 15189.1 | 16339.3 | 17774.3 | 15138.7 | 14437.6 | 14718.0 | 14529.6 | 16444.4 | 21402.3 | 17820.3 |
| 72.5° | 11396.7 | 11664.0 | 12787.9 | 14168.1 | 10301.3 | 9392.1 | 10165.5 | 10095.4 | 12351.9 | 17200.3 | 12242.4 |
| 75° | 8108.3 | 8281.4 | 9714.2 | 11087.8 | 7214.4 | 6112.4 | 6390.7 | 6651.4 | 8623.1 | 13581.0 | 7234.1 |
| 77.5° | 5571.3 | 5720.3 | 6796.0 | 7332.7 | 5262.4 | 5041.1 | 4611.7 | 4863.7 | 5650.2 | 8057.9 | 3936.9 |
| 80° | 3360.7 | 3354.2 | 4061.8 | 4193.3 | 3665.3 | 4256.8 | 3571.1 | 4009.2 | 3415.5 | 3448.4 | 1524.8 |
| 82.5° | 2182.1 | 2160.2 | 2484.4 | 2707.9 | 2039.7 | 2144.8 | 1439.4 | 2074.7 | 2225.9 | 961.8 | 482.0 |
| 85° | 977.1 | 1018.7 | 1194.0 | 1575.2 | 893.9 | 475.4 | 293.6 | 637.5 | 948.6 | 484.2 | 0.0 |
| 87.5° | 100.8 | 78.9 | 210.3 | 383.4 | 122.7 | 13.1 | 43.8 | 21.9 | 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-SA7B-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 |
| 2.5° | 10428.4 | 10301.3 | 9922.3 | 9567.4 | 9262.9 | 8890.4 | 8649.4 | 8270.4 | 8040.4 | 7970.3 | 7981.2 |
| 5° | 10009.9 | 9644.1 | 8923.3 | 8347.1 | 7705.2 | 7339.3 | 6782.8 | 6248.3 | 5959.1 | 5851.7 | 5803.5 |
| 7.5° | 9133.6 | 8741.4 | 7871.7 | 6966.9 | 6278.9 | 5637.0 | 5223.0 | 4751.9 | 4429.9 | 4164.8 | 4118.8 |
| 10° | 8482.9 | 7968.1 | 6890.2 | 5917.5 | 5374.1 | 4892.1 | 4478.1 | 4007.0 | 3628.0 | 3325.7 | 3242.4 |
| 12.5° | 8093.0 | 7516.8 | 6314.0 | 5499.0 | 4984.2 | 4489.0 | 3950.1 | 3404.6 | 3016.8 | 2690.3 | 2539.2 |
| 15° | 8022.8 | 7354.6 | 6151.9 | 5198.9 | 4563.5 | 3965.4 | 3249.0 | 2659.7 | 2260.9 | 1952.0 | 1857.8 |
| 17.5° | 8445.7 | 7646.0 | 6127.8 | 4885.6 | 4013.6 | 3165.8 | 2420.9 | 1932.3 | 1483.2 | 1310.1 | 1242.2 |
| 20° | 9199.3 | 8160.9 | 6125.6 | 4521.9 | 3448.4 | 2438.4 | 1700.1 | 1259.7 | 1077.9 | 994.6 | 955.2 |
| 22.5° | 10226.8 | 8861.9 | 6241.7 | 4208.6 | 2861.2 | 1798.7 | 1213.7 | 1003.4 | 898.2 | 830.3 | 815.0 |
| 25° | 11482.2 | 9900.4 | 6526.5 | 3996.1 | 2412.1 | 1410.9 | 1001.2 | 858.8 | 771.2 | 740.5 | 727.4 |
| 27.5° | 12597.3 | 10895.0 | 6839.8 | 3777.0 | 2090.1 | 1248.8 | 928.9 | 786.5 | 716.4 | 692.3 | 672.6 |
| 30° | 13559.1 | 11797.7 | 6991.0 | 3487.8 | 1831.5 | 1143.6 | 942.1 | 841.3 | 749.3 | 677.0 | 644.1 |
| 32.5° | 14360.9 | 12490.0 | 7089.5 | 3224.9 | 1612.5 | 935.5 | 744.9 | 650.7 | 609.1 | 582.8 | 560.9 |
| 35° | 15364.3 | 13239.2 | 7030.4 | 3075.9 | 1500.7 | 852.2 | 679.2 | 560.9 | 490.7 | 438.2 | 416.3 |
| 37.5° | 16415.9 | 13988.5 | 6927.4 | 2953.2 | 1450.3 | 790.9 | 646.3 | 532.4 | 455.7 | 400.9 | 372.4 |
| 40° | 17504.8 | 14683.0 | 6806.9 | 2839.3 | 1404.3 | 751.5 | 626.6 | 508.3 | 431.6 | 372.4 | 341.8 |
| 42.5° | 18501.6 | 15360.0 | 6758.7 | 2764.8 | 1329.8 | 758.0 | 611.2 | 497.3 | 407.5 | 346.2 | 319.9 |
| 45° | 19307.8 | 16001.9 | 6824.5 | 2725.4 | 1248.8 | 747.1 | 615.6 | 484.2 | 387.8 | 328.6 | 302.3 |
| 47.5° | 20168.8 | 16908.9 | 7037.0 | 2686.0 | 1169.9 | 694.5 | 648.5 | 482.0 | 379.0 | 317.7 | 289.2 |
| 50° | 21170.1 | 18070.0 | 7523.3 | 2589.6 | 1073.5 | 637.5 | 690.1 | 479.8 | 368.1 | 304.5 | 276.0 |
| 52.5° | 22504.3 | 19388.9 | 8025.0 | 2420.9 | 933.3 | 582.8 | 659.4 | 473.2 | 346.2 | 289.2 | 260.7 |
| 55° | 23702.7 | 20777.9 | 8450.1 | 2221.5 | 755.8 | 503.9 | 593.7 | 444.7 | 308.9 | 262.9 | 236.6 |
| 57.5° | 24197.8 | 21562.2 | 8436.9 | 1945.5 | 604.7 | 442.5 | 488.6 | 407.5 | 269.5 | 232.2 | 210.3 |
| 59° | 24016.0 | 21463.6 | 8154.3 | 1741.7 | 552.1 | 409.7 | 405.3 | 403.1 | 251.9 | 210.3 | 192.8 |
| 60° | 23759.6 | 21104.3 | 7849.8 | 1640.9 | 519.2 | 387.8 | 372.4 | 398.7 | 236.6 | 197.2 | 179.6 |
| 62.5° | 22778.1 | 19614.6 | 6839.8 | 1470.1 | 475.4 | 328.6 | 298.0 | 337.4 | 210.3 | 170.9 | 155.5 |
| 65° | 21356.3 | 17325.1 | 5790.4 | 1421.9 | 462.3 | 271.7 | 247.6 | 241.0 | 179.6 | 144.6 | 131.5 |
| 67.5° | 18582.7 | 14661.1 | 4690.6 | 1389.0 | 466.6 | 227.8 | 216.9 | 181.8 | 149.0 | 120.5 | 111.7 |
| 70° | 14878.0 | 11431.8 | 3840.5 | 1351.7 | 471.0 | 186.2 | 181.8 | 144.6 | 120.5 | 100.8 | 92.0 |
| 72.5° | 9039.4 | 6776.3 | 3023.4 | 1174.3 | 457.9 | 149.0 | 162.1 | 109.5 | 87.6 | 72.3 | 67.9 |
| 75° | 5588.8 | 4638.0 | 1875.4 | 913.6 | 302.3 | 109.5 | 113.9 | 67.9 | 59.2 | 46.0 | 46.0 |
| 77.5° | 3238.1 | 2929.1 | 670.4 | 328.6 | 133.6 | 65.7 | 50.4 | 35.1 | 32.9 | 19.7 | 19.7 |
| 80° | 1343.0 | 1075.7 | 232.2 | 111.7 | 72.3 | 30.7 | 11.0 | 2.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 392.2 | 348.3 | 63.5 | 50.4 | 21.9 | 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-SA7B-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 | 9637.5 |
| 2.5° | 7795.0 | 7722.7 | 7689.8 | 7801.6 | 7698.6 | 7830.1 | 7729.3 | 7773.1 | 7902.3 | 7959.3 | 8106.1 |
| 5° | 5834.2 | 5759.7 | 5724.7 | 5893.4 | 5884.6 | 5967.8 | 5959.1 | 6035.8 | 6101.5 | 5954.7 | 6105.9 |
| 7.5° | 4064.0 | 4013.6 | 4096.9 | 4228.3 | 4368.5 | 4322.5 | 4322.5 | 4219.6 | 4254.6 | 4232.7 | 4226.1 |
| 10° | 3091.3 | 2918.2 | 2874.4 | 2870.0 | 2922.6 | 2933.5 | 2874.4 | 2732.0 | 2784.6 | 2799.9 | 2891.9 |
| 12.5° | 2431.8 | 2298.2 | 2094.4 | 2002.4 | 1978.3 | 1998.0 | 1803.1 | 1678.2 | 1737.3 | 1702.3 | 1792.1 |
| 15° | 1743.9 | 1634.4 | 1513.9 | 1410.9 | 1382.4 | 1343.0 | 1130.5 | 981.5 | 964.0 | 970.5 | 985.9 |
| 17.5° | 1244.4 | 1169.9 | 1169.9 | 1060.4 | 1001.2 | 882.9 | 775.6 | 709.8 | 703.3 | 709.8 | 720.8 |
| 20° | 918.0 | 878.5 | 874.1 | 845.7 | 779.9 | 701.1 | 626.6 | 613.4 | 609.1 | 620.0 | 624.4 |
| 22.5° | 790.9 | 749.3 | 714.2 | 712.0 | 650.7 | 585.0 | 549.9 | 532.4 | 534.6 | 538.9 | 549.9 |
| 25° | 707.6 | 663.8 | 626.6 | 604.7 | 560.9 | 514.8 | 482.0 | 473.2 | 473.2 | 479.8 | 482.0 |
| 27.5° | 648.5 | 593.7 | 560.9 | 530.2 | 490.7 | 451.3 | 422.8 | 416.3 | 411.9 | 416.3 | 427.2 |
| 30° | 606.9 | 552.1 | 510.5 | 464.5 | 433.8 | 396.5 | 372.4 | 363.7 | 361.5 | 363.7 | 372.4 |
| 32.5° | 519.2 | 486.4 | 453.5 | 411.9 | 374.6 | 350.5 | 324.2 | 308.9 | 308.9 | 313.3 | 322.1 |
| 35° | 392.2 | 374.6 | 372.4 | 361.5 | 330.8 | 304.5 | 273.9 | 258.5 | 258.5 | 267.3 | 271.7 |
| 37.5° | 346.2 | 313.3 | 308.9 | 304.5 | 291.4 | 256.3 | 227.8 | 214.7 | 212.5 | 219.1 | 227.8 |
| 40° | 315.5 | 278.2 | 258.5 | 254.1 | 256.3 | 216.9 | 186.2 | 173.1 | 173.1 | 175.3 | 184.0 |
| 42.5° | 291.4 | 247.6 | 212.5 | 208.1 | 216.9 | 181.8 | 151.2 | 138.0 | 138.0 | 138.0 | 149.0 |
| 45° | 271.7 | 221.3 | 179.6 | 157.7 | 170.9 | 149.0 | 122.7 | 109.5 | 105.2 | 109.5 | 113.9 |
| 47.5° | 258.5 | 201.6 | 157.7 | 127.1 | 127.1 | 118.3 | 98.6 | 83.3 | 78.9 | 81.1 | 87.6 |
| 50° | 247.6 | 184.0 | 133.6 | 103.0 | 92.0 | 94.2 | 74.5 | 63.5 | 59.2 | 59.2 | 65.7 |
| 52.5° | 230.0 | 166.5 | 116.1 | 87.6 | 70.1 | 63.5 | 54.8 | 46.0 | 43.8 | 46.0 | 50.4 |
| 55° | 208.1 | 151.2 | 100.8 | 72.3 | 54.8 | 43.8 | 39.4 | 32.9 | 30.7 | 32.9 | 39.4 |
| 57.5° | 184.0 | 127.1 | 81.1 | 57.0 | 37.2 | 28.5 | 26.3 | 21.9 | 17.5 | 19.7 | 24.1 |
| 59° | 168.7 | 113.9 | 70.1 | 46.0 | 28.5 | 19.7 | 19.7 | 15.3 | 11.0 | 13.1 | 19.7 |
| 60° | 162.1 | 105.2 | 59.2 | 39.4 | 24.1 | 15.3 | 15.3 | 11.0 | 6.6 | 8.8 | 15.3 |
| 62.5° | 138.0 | 87.6 | 46.0 | 24.1 | 11.0 | 2.2 | 6.6 | 2.2 | 0.0 | 2.2 | 6.6 |
| 65° | 116.1 | 70.1 | 30.7 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 |
| 67.5° | 96.4 | 52.6 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 76.7 | 35.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 52.6 | 19.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 32.9 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 13.1 | 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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| 2.5° | 8114.9 | 8428.2 | 8620.9 | 8984.6 | 9357.1 | 9644.1 | 10003.4 | 10325.4 | 10459.1 | 10529.2 |
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| 30° | 398.7 | 440.4 | 506.1 | 585.0 | 766.8 | 1925.7 | 6870.5 | 12518.4 | 13911.8 | 14262.4 |
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| 59° | 41.6 | 65.7 | 92.0 | 109.5 | 144.6 | 199.4 | 4283.1 | 20659.6 | 22567.8 | 22719.0 |
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| 62.5° | 26.3 | 46.0 | 59.2 | 83.3 | 109.5 | 162.1 | 3667.5 | 19016.5 | 21426.4 | 21544.7 |
| 65° | 17.5 | 32.9 | 43.8 | 61.3 | 85.4 | 140.2 | 2988.3 | 17360.2 | 20028.6 | 20293.7 |
| 67.5° | 11.0 | 24.1 | 35.1 | 46.0 | 70.1 | 118.3 | 2129.5 | 14886.7 | 18072.2 | 18243.1 |
| 70° | 6.6 | 15.3 | 26.3 | 37.2 | 54.8 | 94.2 | 1264.1 | 11767.0 | 15035.7 | 15070.8 |
| 72.5° | 4.4 | 11.0 | 17.5 | 26.3 | 43.8 | 85.4 | 613.4 | 7670.1 | 10978.3 | 11396.7 |
| 75° | 2.2 | 6.6 | 11.0 | 19.7 | 35.1 | 70.1 | 293.6 | 5124.4 | 7987.8 | 8108.3 |
| 77.5° | 0.0 | 2.2 | 6.6 | 13.1 | 26.3 | 54.8 | 170.9 | 3365.1 | 5446.4 | 5571.3 |
| 80° | 0.0 | 0.0 | 4.4 | 11.0 | 19.7 | 35.1 | 103.0 | 1984.9 | 3299.4 | 3360.7 |
| 82.5° | 0.0 | 0.0 | 2.2 | 8.8 | 13.1 | 26.3 | 52.6 | 872.0 | 2160.2 | 2182.1 |
| 85° | 0.0 | 0.0 | 2.2 | 8.8 | 11.0 | 17.5 | 19.7 | 118.3 | 959.6 | 977.1 |
| 87.5° | 0.0 | 0.0 | 2.2 | 11.0 | 11.0 | 11.0 | 11.0 | 6.6 | 81.1 | 100.8 |
| 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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