

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: P528752

Luminaire Tested: **GALN-SA3D-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-760-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19574 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

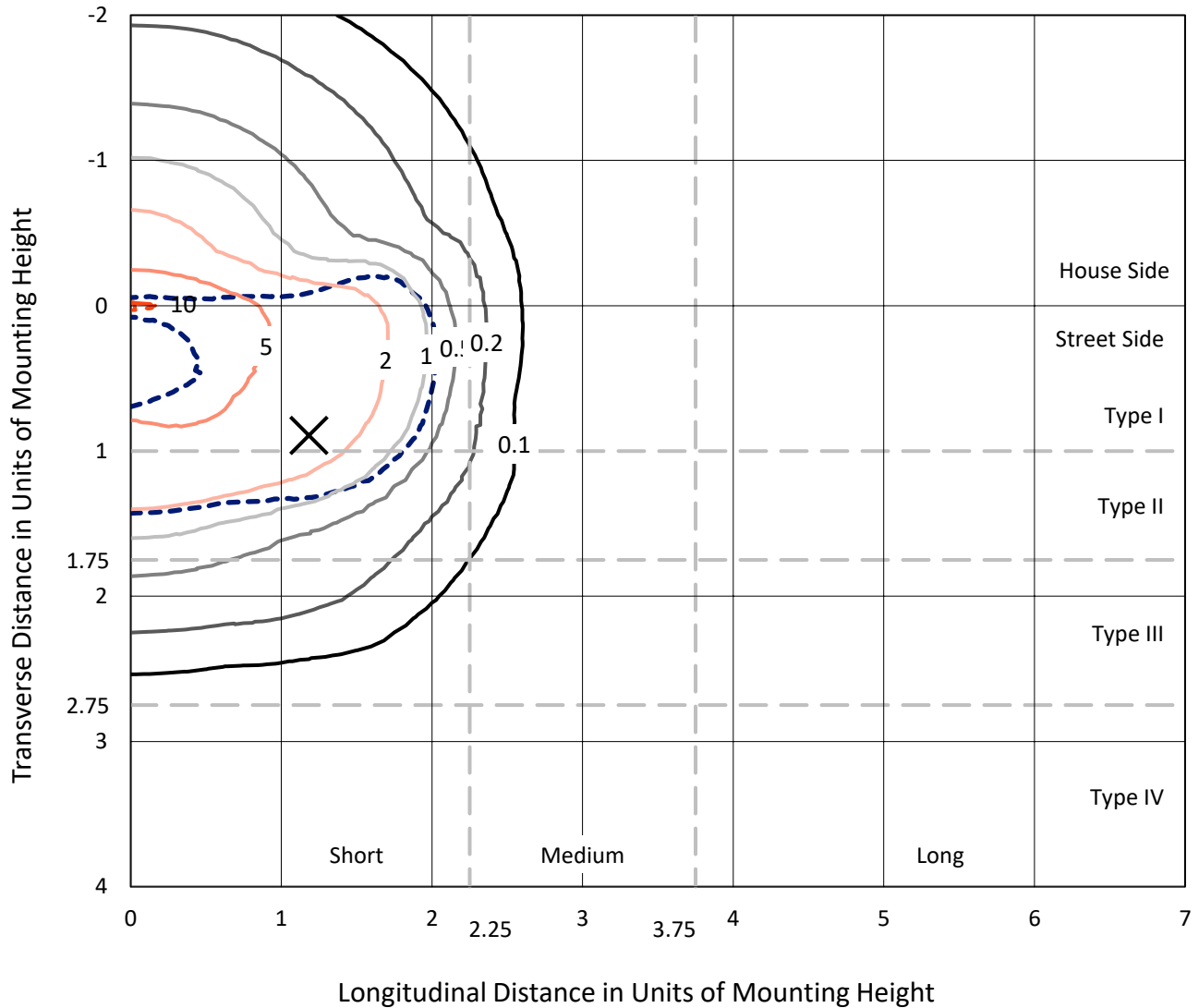
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

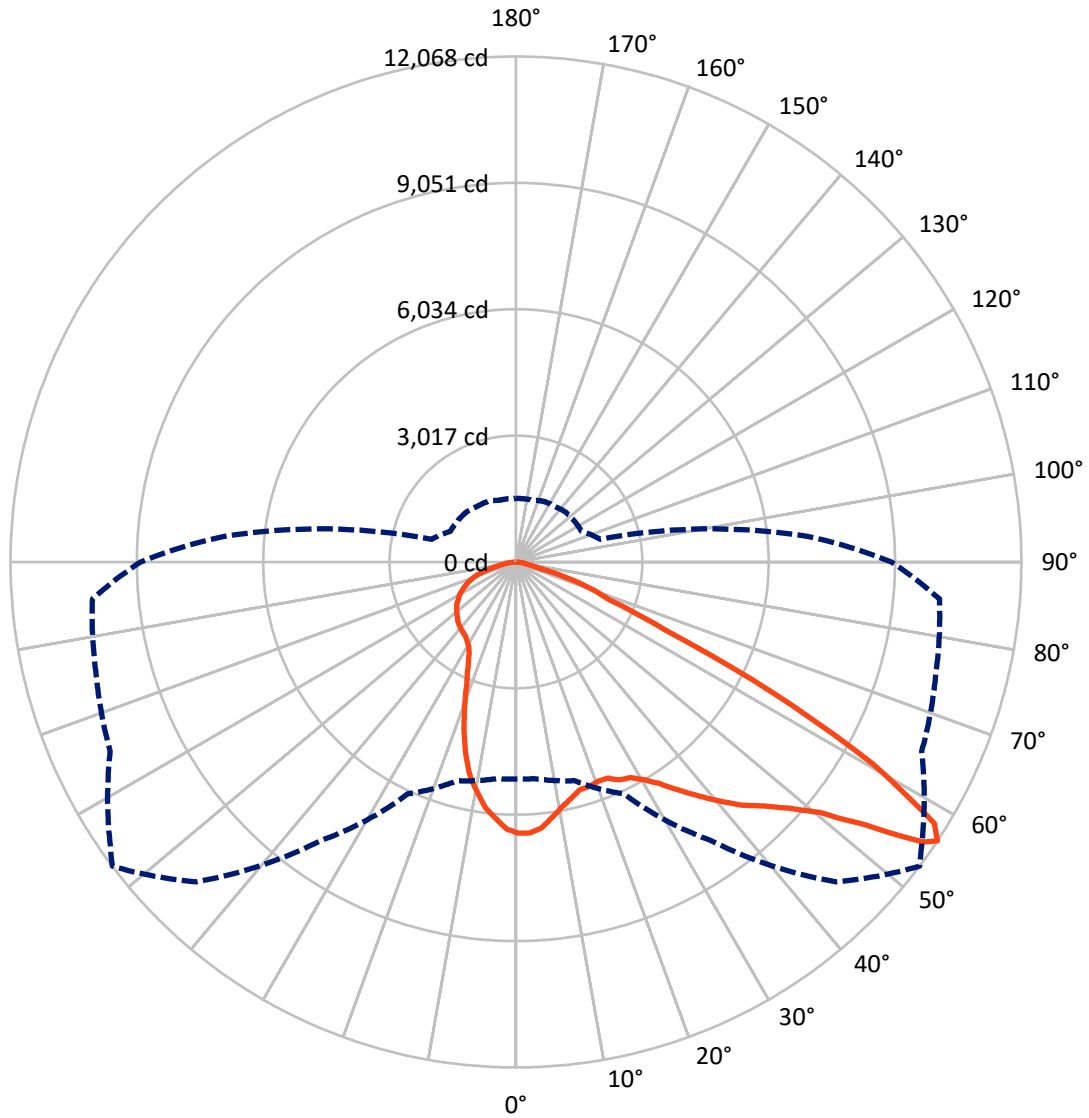
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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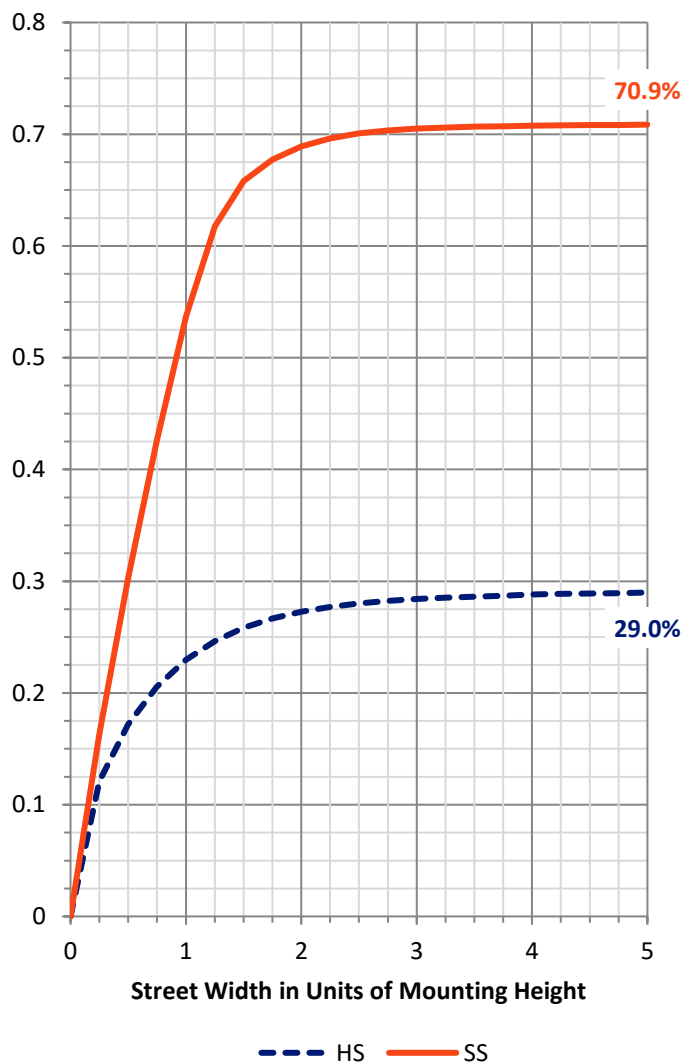
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5712.1 | 0.0 | 5712.1 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 13861.9 | 0.0 | 13861.9 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 19574.0 | 0.0 | 19574.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 573.3 | 2.9 |
| 10°-20° | 1431.8 | 7.3 |
| 20°-30° | 2111.4 | 10.8 |
| 30°-40° | 3016.8 | 15.4 |
| 40°-50° | 4152.2 | 21.2 |
| 50°-60° | 4906.7 | 25.1 |
| 60°-70° | 2615.0 | 13.4 |
| 70°-80° | 663.4 | 3.4 |
| 80°-90° | 103.4 | 0.5 |
| 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° | 19574.0 | 100.0 |
| 0°-180° | 19574.0 | 100.0 |

Coefficient of Utilization



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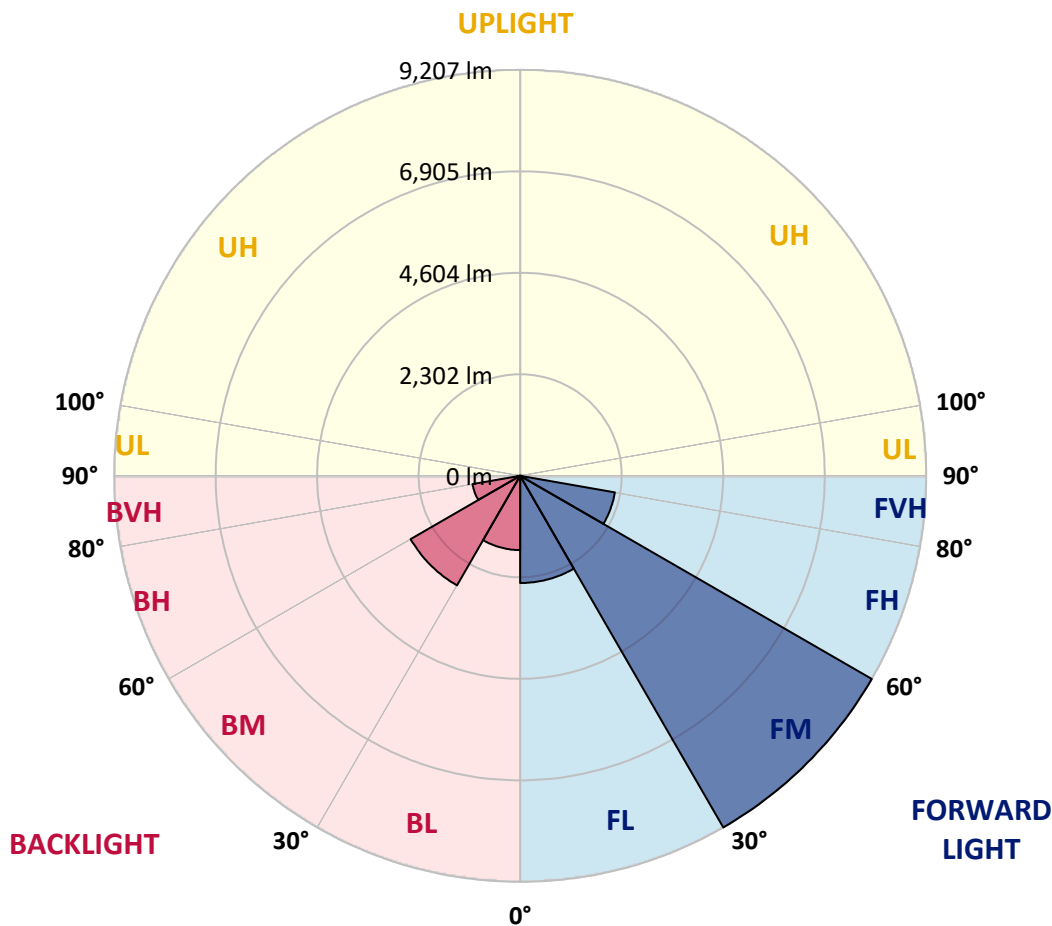
CATALOG NUMBER: GALN-SA3D-760-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2431.8 | 12.4 | | | |
| FM (30°-60°) | 9207.2 | 47.0 | | | |
| FH (60°-80°) | 2181.3 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 41.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1684.7 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 2868.4 | 14.7 | B3/5000 | | |
| BH (60°-80°) | 1097.1 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 61.9 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 |
| 2.5° | 6395.5 | 6340.3 | 6372.9 | 6360.3 | 6463.3 | 6493.4 | 6478.4 | 6490.9 | 6548.7 | 6521.0 | 6463.3 |
| 5° | 5976.2 | 6054.0 | 6069.1 | 6106.7 | 6167.0 | 6285.0 | 6377.9 | 6403.0 | 6430.7 | 6558.7 | 6546.2 |
| 7.5° | 5594.5 | 5647.2 | 5619.6 | 5730.1 | 5860.7 | 6051.5 | 6164.5 | 6184.6 | 6438.2 | 6508.5 | 6561.2 |
| 10° | 5353.4 | 5300.7 | 5426.3 | 5456.4 | 5604.5 | 5823.0 | 5958.6 | 6041.4 | 6272.5 | 6551.2 | 6583.8 |
| 12.5° | 5130.0 | 5112.4 | 5187.7 | 5273.1 | 5438.8 | 5664.8 | 5802.9 | 5835.5 | 6192.1 | 6485.9 | 6639.1 |
| 15° | 4964.2 | 4944.1 | 5019.5 | 5082.2 | 5275.6 | 5476.5 | 5652.2 | 5745.2 | 6104.2 | 6448.2 | 6591.4 |
| 17.5° | 4833.7 | 4831.2 | 4873.8 | 4986.8 | 5185.2 | 5353.4 | 5637.2 | 5642.2 | 6059.0 | 6506.0 | 6631.5 |
| 20° | 4826.1 | 4823.6 | 4831.2 | 4956.7 | 5137.5 | 5343.4 | 5589.5 | 5634.7 | 6059.0 | 6465.8 | 6634.0 |
| 22.5° | 4888.9 | 4848.7 | 4893.9 | 4974.3 | 5104.8 | 5361.0 | 5607.0 | 5707.5 | 6204.7 | 6664.2 | 6747.0 |
| 25° | 4989.3 | 4999.4 | 5024.5 | 5052.1 | 5127.4 | 5401.1 | 5762.7 | 5845.6 | 6375.4 | 6834.9 | 6902.7 |
| 27.5° | 5172.6 | 5167.6 | 5177.7 | 5192.7 | 5258.0 | 5438.8 | 5825.5 | 6038.9 | 6732.0 | 7138.8 | 7071.0 |
| 30° | 5441.3 | 5423.7 | 5463.9 | 5516.7 | 5456.4 | 5559.3 | 6033.9 | 6194.6 | 7063.4 | 7445.1 | 7259.3 |
| 32.5° | 5684.9 | 5750.2 | 5825.5 | 5848.1 | 5775.3 | 5795.4 | 6310.1 | 6473.3 | 7339.6 | 7821.7 | 7490.3 |
| 35° | 5988.7 | 6041.4 | 6141.9 | 6212.2 | 6199.6 | 6139.4 | 6686.8 | 6902.7 | 7738.9 | 8098.0 | 7733.9 |
| 37.5° | 6285.0 | 6347.8 | 6513.5 | 6721.9 | 6606.4 | 6578.8 | 7088.5 | 7266.8 | 7861.9 | 8246.1 | 7912.1 |
| 40° | 6762.1 | 6759.6 | 7045.8 | 7153.8 | 7256.8 | 7209.1 | 7505.4 | 7565.6 | 7927.2 | 8213.5 | 7917.2 |
| 42.5° | 7322.1 | 7286.9 | 7578.2 | 7746.4 | 7879.5 | 7884.5 | 7939.8 | 7919.7 | 7957.3 | 8047.7 | 7864.4 |
| 45° | 7854.4 | 7929.7 | 8223.5 | 8524.8 | 8657.9 | 8673.0 | 8306.4 | 8268.7 | 8010.1 | 8000.0 | 7764.0 |
| 47.5° | 8504.7 | 8522.3 | 8763.4 | 9160.1 | 9469.0 | 9363.5 | 8780.9 | 8698.1 | 8241.1 | 8318.9 | 7932.2 |
| 50° | 8542.4 | 8673.0 | 8888.9 | 9356.0 | 10305.1 | 10277.5 | 9396.1 | 9240.5 | 8612.7 | 8770.9 | 8401.8 |
| 52.5° | 7753.9 | 7723.8 | 7979.9 | 8743.3 | 10242.3 | 11186.5 | 10415.6 | 10044.0 | 9411.2 | 9290.7 | 9162.6 |
| 55° | 5908.4 | 5978.7 | 6204.7 | 6975.5 | 8893.9 | 11199.0 | 11804.2 | 11500.3 | 10264.9 | 10059.0 | 9910.9 |
| 56° | 5182.7 | 5192.7 | 5406.2 | 6109.2 | 8115.5 | 10799.8 | 12067.8 | 11821.8 | 10689.3 | 10375.4 | 10149.4 |
| 57.5° | 4296.3 | 4238.6 | 4349.0 | 4733.2 | 6850.0 | 9956.1 | 11779.1 | 12020.1 | 11186.5 | 10716.9 | 10403.0 |
| 60° | 3382.3 | 3369.8 | 3324.6 | 3394.9 | 4329.0 | 7500.3 | 9805.4 | 10347.8 | 11136.3 | 10395.5 | 9963.6 |
| 62.5° | 2762.1 | 2699.3 | 2789.7 | 2890.2 | 3008.2 | 4652.9 | 6890.2 | 7209.1 | 8841.2 | 8298.8 | 7485.3 |
| 65° | 2141.9 | 2111.7 | 2224.7 | 2551.2 | 2621.5 | 2955.4 | 3924.7 | 4170.8 | 5220.4 | 5127.4 | 4514.8 |
| 67.5° | 1474.0 | 1479.0 | 1576.9 | 2074.1 | 2430.6 | 2400.5 | 2403.0 | 2531.1 | 2724.4 | 2023.9 | 1762.7 |
| 70° | 934.1 | 931.6 | 984.3 | 1335.8 | 1956.1 | 1976.2 | 1875.7 | 1838.0 | 1742.6 | 1054.6 | 1117.4 |
| 72.5° | 600.1 | 582.6 | 610.2 | 738.2 | 1011.9 | 1170.1 | 1205.3 | 1227.9 | 1009.4 | 828.6 | 898.9 |
| 75° | 339.0 | 321.4 | 311.4 | 344.0 | 399.2 | 462.0 | 507.2 | 522.3 | 585.1 | 627.7 | 665.4 |
| 77.5° | 103.0 | 92.9 | 113.0 | 150.7 | 198.4 | 266.2 | 323.9 | 334.0 | 394.2 | 444.4 | 482.1 |
| 80° | 45.2 | 50.2 | 70.3 | 100.4 | 140.6 | 188.3 | 228.5 | 243.6 | 283.7 | 321.4 | 331.5 |
| 82.5° | 27.6 | 30.1 | 47.7 | 67.8 | 97.9 | 133.1 | 163.2 | 168.2 | 208.4 | 238.5 | 246.1 |
| 85° | 10.0 | 12.6 | 25.1 | 40.2 | 62.8 | 85.4 | 85.4 | 92.9 | 85.4 | 85.4 | 92.9 |
| 87.5° | 0.0 | 0.0 | 2.5 | 5.0 | 5.0 | 7.5 | 10.0 | 10.0 | 12.6 | 15.1 | 17.6 |
| 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-SA3D-760-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 | 6475.9 |
| 2.5° | 6493.4 | 6480.9 | 6460.8 | 6388.0 | 6380.4 | 6357.8 | 6232.3 | 6212.2 | 6232.3 | 6172.0 | 6177.0 |
| 5° | 6480.9 | 6518.5 | 6367.9 | 6295.1 | 6159.5 | 6061.5 | 5948.5 | 5890.8 | 5787.8 | 5722.6 | 5795.4 |
| 7.5° | 6536.1 | 6521.0 | 6332.7 | 6174.5 | 5971.1 | 5722.6 | 5524.2 | 5411.2 | 5230.4 | 5180.2 | 5217.8 |
| 10° | 6516.0 | 6435.7 | 6214.7 | 6006.3 | 5622.1 | 5403.7 | 5082.2 | 4770.9 | 4600.1 | 4512.3 | 4499.7 |
| 12.5° | 6488.4 | 6465.8 | 6096.7 | 5737.6 | 5333.3 | 4873.8 | 4421.9 | 4128.1 | 3849.4 | 3728.8 | 3746.4 |
| 15° | 6521.0 | 6330.2 | 5875.7 | 5421.2 | 4883.9 | 4281.2 | 3794.1 | 3415.0 | 3221.6 | 3143.8 | 3143.8 |
| 17.5° | 6506.0 | 6264.9 | 5770.3 | 5067.2 | 4386.7 | 3673.6 | 3138.7 | 2910.2 | 2829.9 | 2829.9 | 2852.5 |
| 20° | 6513.5 | 6307.6 | 5556.8 | 4713.1 | 3799.1 | 3093.5 | 2704.3 | 2621.5 | 2656.6 | 2669.2 | 2681.7 |
| 22.5° | 6556.2 | 6167.0 | 5348.4 | 4323.9 | 3254.2 | 2646.6 | 2455.8 | 2458.3 | 2521.0 | 2588.8 | 2576.3 |
| 25° | 6608.9 | 6111.8 | 5094.8 | 3937.2 | 2837.4 | 2428.1 | 2367.9 | 2360.3 | 2408.0 | 2443.2 | 2448.2 |
| 27.5° | 6563.7 | 6016.3 | 4836.2 | 3455.1 | 2495.9 | 2282.5 | 2269.9 | 2275.0 | 2290.0 | 2360.3 | 2337.7 |
| 30° | 6711.9 | 6044.0 | 4512.3 | 3050.9 | 2307.6 | 2234.8 | 2219.7 | 2212.2 | 2234.8 | 2254.9 | 2237.3 |
| 32.5° | 6895.2 | 5946.0 | 4271.2 | 2661.7 | 2214.7 | 2199.6 | 2169.5 | 2159.5 | 2172.0 | 2151.9 | 2162.0 |
| 35° | 6975.5 | 5928.5 | 3957.3 | 2382.9 | 2141.9 | 2129.3 | 2111.7 | 2109.2 | 2111.7 | 2094.2 | 2079.1 |
| 37.5° | 7020.7 | 6011.3 | 3598.3 | 2254.9 | 2096.7 | 2109.2 | 2069.1 | 2064.0 | 2018.8 | 2028.9 | 2036.4 |
| 40° | 7098.6 | 5883.3 | 3307.0 | 2131.8 | 2069.1 | 2043.9 | 2008.8 | 2001.3 | 1971.1 | 1953.6 | 1971.1 |
| 42.5° | 6985.6 | 5845.6 | 3020.7 | 2079.1 | 2028.9 | 2001.3 | 1976.2 | 1933.5 | 1923.4 | 1908.4 | 1898.3 |
| 45° | 6895.2 | 5629.6 | 2764.6 | 2013.8 | 1981.2 | 1966.1 | 1918.4 | 1873.2 | 1835.5 | 1850.6 | 1828.0 |
| 47.5° | 6963.0 | 5554.3 | 2511.0 | 1958.6 | 1915.9 | 1898.3 | 1850.6 | 1815.4 | 1777.8 | 1760.2 | 1755.2 |
| 50° | 7234.2 | 5694.9 | 2297.6 | 1918.4 | 1860.6 | 1850.6 | 1787.8 | 1747.7 | 1712.5 | 1699.9 | 1705.0 |
| 52.5° | 7882.0 | 6079.1 | 2151.9 | 1835.5 | 1807.9 | 1762.7 | 1727.6 | 1677.3 | 1654.7 | 1614.6 | 1639.7 |
| 55° | 8703.1 | 6704.4 | 2114.3 | 1757.7 | 1742.6 | 1702.5 | 1654.7 | 1617.1 | 1574.4 | 1541.7 | 1534.2 |
| 56° | 8966.8 | 7003.2 | 2084.1 | 1727.6 | 1702.5 | 1679.9 | 1617.1 | 1594.5 | 1526.7 | 1519.2 | 1514.1 |
| 57.5° | 9180.2 | 7266.8 | 2089.1 | 1669.8 | 1644.7 | 1624.6 | 1586.9 | 1531.7 | 1486.5 | 1458.9 | 1471.4 |
| 60° | 8698.1 | 6802.3 | 1993.7 | 1581.9 | 1576.9 | 1539.2 | 1486.5 | 1461.4 | 1406.2 | 1373.5 | 1366.0 |
| 62.5° | 6465.8 | 4617.7 | 1617.1 | 1468.9 | 1466.4 | 1426.2 | 1366.0 | 1338.4 | 1328.3 | 1283.1 | 1283.1 |
| 65° | 3723.8 | 2895.2 | 1398.6 | 1376.0 | 1355.9 | 1315.8 | 1255.5 | 1232.9 | 1207.8 | 1192.7 | 1180.2 |
| 67.5° | 1589.5 | 1501.6 | 1270.6 | 1268.1 | 1245.5 | 1195.2 | 1135.0 | 1099.8 | 1067.2 | 1037.0 | 1052.1 |
| 70° | 1152.5 | 1170.1 | 1147.5 | 1135.0 | 1107.3 | 1044.6 | 991.8 | 949.2 | 898.9 | 878.8 | 893.9 |
| 72.5° | 914.0 | 951.7 | 984.3 | 986.8 | 954.2 | 881.4 | 823.6 | 765.9 | 710.6 | 683.0 | 695.5 |
| 75° | 693.0 | 718.1 | 750.8 | 758.3 | 710.6 | 660.4 | 605.1 | 544.9 | 502.2 | 469.6 | 474.6 |
| 77.5° | 499.7 | 494.7 | 524.8 | 519.8 | 497.2 | 462.0 | 411.8 | 356.6 | 308.9 | 278.7 | 281.2 |
| 80° | 341.5 | 349.0 | 366.6 | 364.1 | 336.5 | 313.9 | 276.2 | 231.0 | 195.9 | 170.7 | 165.7 |
| 82.5° | 238.5 | 251.1 | 266.2 | 253.6 | 231.0 | 208.4 | 180.8 | 148.1 | 120.5 | 100.4 | 95.4 |
| 85° | 85.4 | 97.9 | 113.0 | 120.5 | 128.1 | 123.0 | 103.0 | 82.9 | 60.3 | 50.2 | 47.7 |
| 87.5° | 17.6 | 20.1 | 22.6 | 22.6 | 22.6 | 20.1 | 17.6 | 17.6 | 15.1 | 7.5 | 7.5 |
| 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)