

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: P529870

Luminaire Tested: **GALN-SA5A-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529870
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-SA5A-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 19411 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

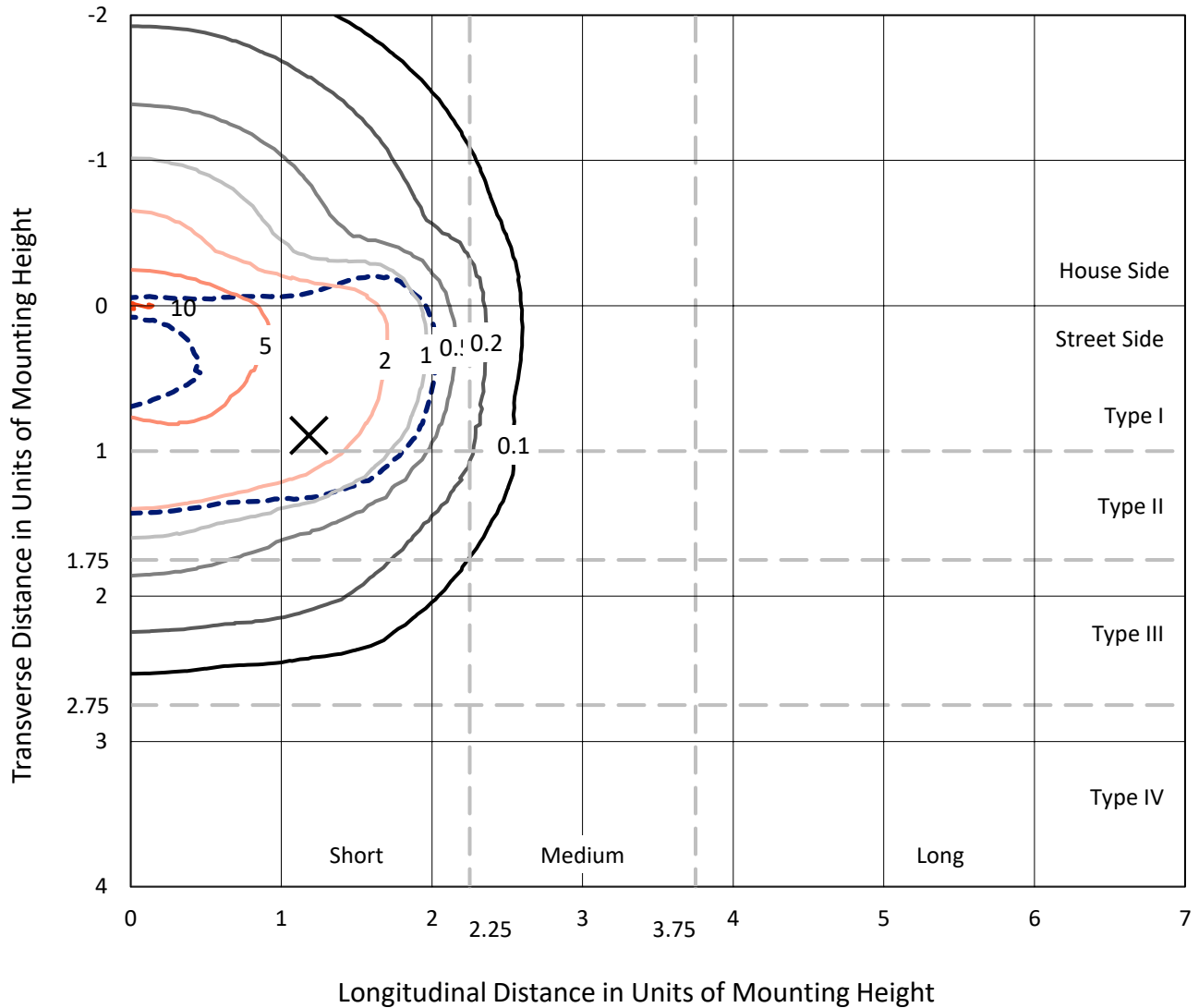
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

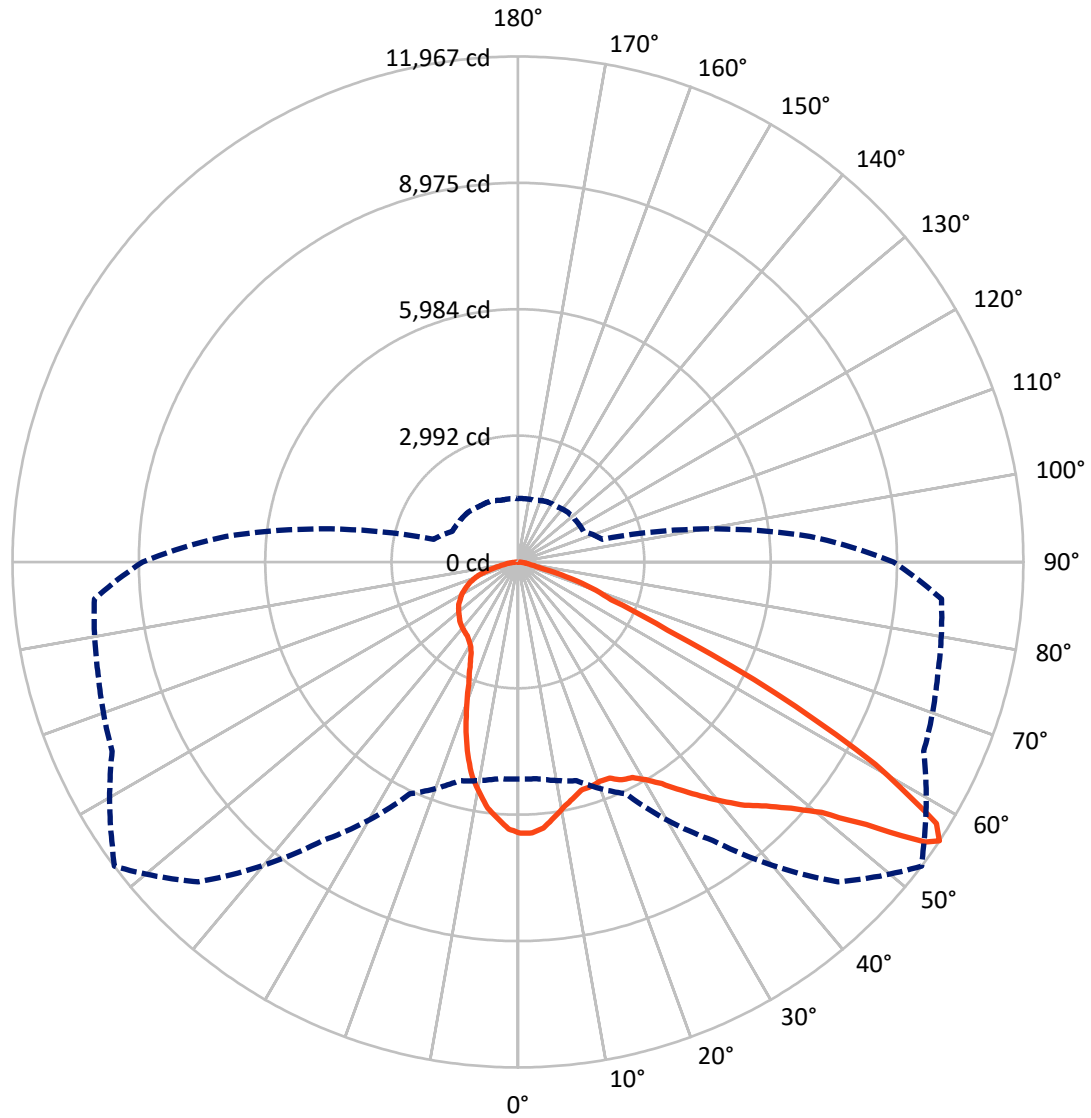
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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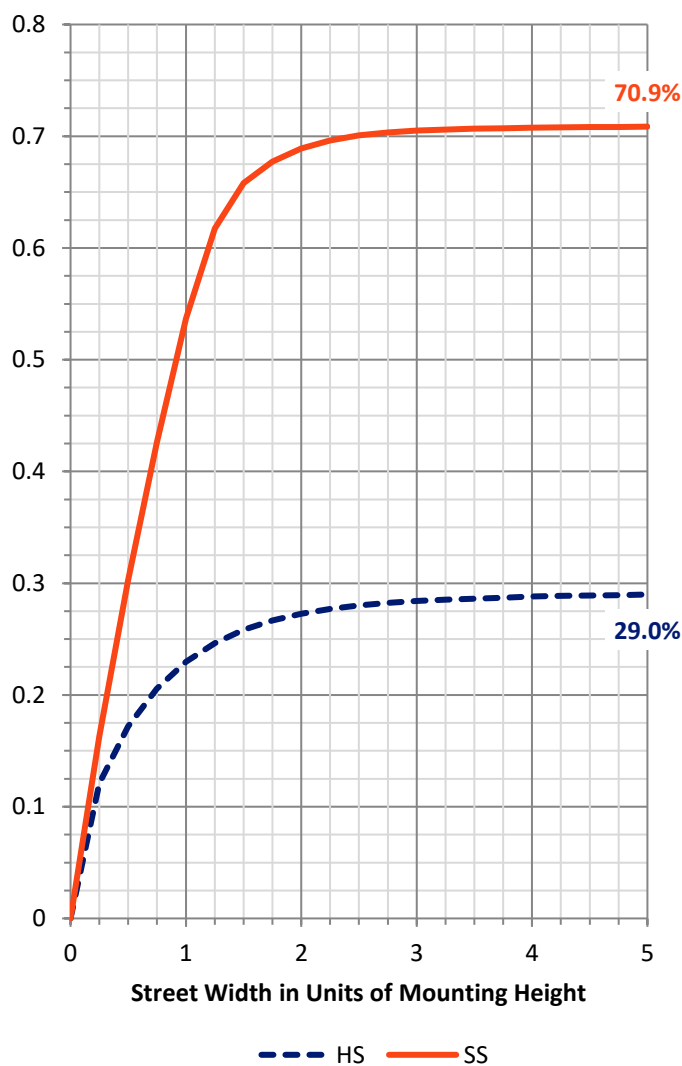
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5664.6 | 0.0 | 5664.6 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 13746.4 | 0.0 | 13746.4 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 19411.0 | 0.0 | 19411.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 568.5 | 2.9 |
| 10°-20° | 1419.9 | 7.3 |
| 20°-30° | 2093.8 | 10.8 |
| 30°-40° | 2991.6 | 15.4 |
| 40°-50° | 4117.6 | 21.2 |
| 50°-60° | 4865.9 | 25.1 |
| 60°-70° | 2593.2 | 13.4 |
| 70°-80° | 657.9 | 3.4 |
| 80°-90° | 102.6 | 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° | 19411.0 | 100.0 |
| 0°-180° | 19411.0 | 100.0 |

Coefficient of Utilization



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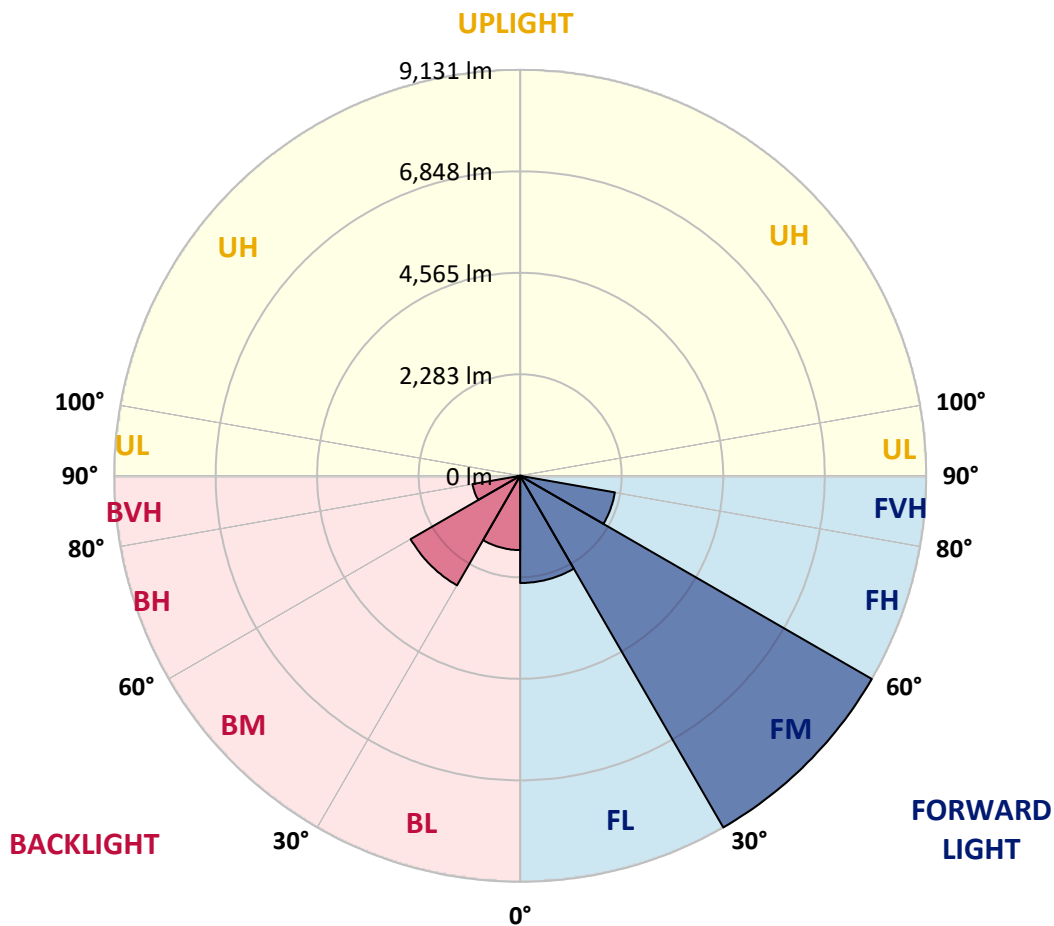
CATALOG NUMBER: GALN-SA5A-740-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2411.5 | 12.4 | | | |
| FM (30°-60°) | 9130.6 | 47.0 | | | |
| FH (60°-80°) | 2163.1 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 41.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1670.7 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 2844.5 | 14.7 | B3/5000 | | |
| BH (60°-80°) | 1087.9 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 61.3 | 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° | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 |
| 2.5° | 6342.2 | 6287.5 | 6319.8 | 6307.4 | 6409.5 | 6439.4 | 6424.4 | 6436.9 | 6494.1 | 6466.7 | 6409.5 |
| 5° | 5926.4 | 6003.6 | 6018.5 | 6055.9 | 6115.6 | 6232.7 | 6324.8 | 6349.7 | 6377.1 | 6504.1 | 6491.6 |
| 7.5° | 5547.9 | 5600.2 | 5572.8 | 5682.4 | 5811.9 | 6001.1 | 6113.2 | 6133.1 | 6384.6 | 6454.3 | 6506.6 |
| 10° | 5308.9 | 5256.6 | 5381.1 | 5411.0 | 5557.9 | 5774.5 | 5909.0 | 5991.1 | 6220.2 | 6496.6 | 6529.0 |
| 12.5° | 5087.2 | 5069.8 | 5144.5 | 5229.2 | 5393.5 | 5617.6 | 5754.6 | 5787.0 | 6140.5 | 6431.9 | 6583.8 |
| 15° | 4922.9 | 4903.0 | 4977.7 | 5039.9 | 5231.7 | 5430.9 | 5605.2 | 5697.3 | 6053.4 | 6394.5 | 6536.5 |
| 17.5° | 4793.4 | 4790.9 | 4833.3 | 4945.3 | 5142.0 | 5308.9 | 5590.2 | 5595.2 | 6008.6 | 6451.8 | 6576.3 |
| 20° | 4785.9 | 4783.4 | 4790.9 | 4915.4 | 5094.7 | 5298.9 | 5542.9 | 5587.7 | 6008.6 | 6412.0 | 6578.8 |
| 22.5° | 4848.2 | 4808.4 | 4853.2 | 4932.9 | 5062.3 | 5316.3 | 5560.4 | 5660.0 | 6153.0 | 6608.7 | 6690.9 |
| 25° | 4947.8 | 4957.8 | 4982.7 | 5010.0 | 5084.7 | 5356.2 | 5714.7 | 5796.9 | 6322.3 | 6778.0 | 6845.2 |
| 27.5° | 5129.6 | 5124.6 | 5134.6 | 5149.5 | 5214.2 | 5393.5 | 5777.0 | 5988.6 | 6675.9 | 7079.3 | 7012.1 |
| 30° | 5396.0 | 5378.6 | 5418.4 | 5470.7 | 5411.0 | 5513.0 | 5983.7 | 6143.0 | 7004.6 | 7383.1 | 7198.8 |
| 32.5° | 5637.5 | 5702.3 | 5777.0 | 5799.4 | 5727.2 | 5747.1 | 6257.6 | 6419.4 | 7278.5 | 7756.6 | 7427.9 |
| 35° | 5938.8 | 5991.1 | 6090.7 | 6160.5 | 6148.0 | 6088.3 | 6631.1 | 6845.2 | 7674.4 | 8030.5 | 7669.5 |
| 37.5° | 6232.7 | 6294.9 | 6459.3 | 6666.0 | 6551.4 | 6524.0 | 7029.5 | 7206.3 | 7796.4 | 8177.4 | 7846.3 |
| 40° | 6705.8 | 6703.3 | 6987.2 | 7094.2 | 7196.3 | 7149.0 | 7442.9 | 7502.6 | 7861.2 | 8145.1 | 7851.2 |
| 42.5° | 7261.1 | 7226.2 | 7515.1 | 7681.9 | 7813.9 | 7818.9 | 7873.6 | 7853.7 | 7891.1 | 7980.7 | 7798.9 |
| 45° | 7789.0 | 7863.7 | 8155.0 | 8453.8 | 8585.8 | 8600.7 | 8237.2 | 8199.8 | 7943.4 | 7933.4 | 7699.3 |
| 47.5° | 8433.9 | 8451.3 | 8690.4 | 9083.8 | 9390.1 | 9285.5 | 8707.8 | 8625.6 | 8172.5 | 8249.6 | 7866.2 |
| 50° | 8471.3 | 8600.7 | 8814.9 | 9278.0 | 10219.3 | 10191.9 | 9317.9 | 9163.5 | 8541.0 | 8697.9 | 8331.8 |
| 52.5° | 7689.4 | 7659.5 | 7913.5 | 8670.5 | 10157.0 | 11093.3 | 10328.9 | 9960.3 | 9332.8 | 9213.3 | 9086.3 |
| 55° | 5859.2 | 5928.9 | 6153.0 | 6917.5 | 8819.9 | 11105.8 | 11705.9 | 11404.6 | 10179.5 | 9975.3 | 9828.4 |
| 56° | 5139.5 | 5149.5 | 5361.1 | 6058.4 | 8047.9 | 10709.8 | 11967.3 | 11723.3 | 10600.3 | 10289.0 | 10064.9 |
| 57.5° | 4260.5 | 4203.3 | 4312.8 | 4693.8 | 6792.9 | 9873.2 | 11681.0 | 11920.0 | 11093.3 | 10627.7 | 10316.4 |
| 60° | 3354.1 | 3341.7 | 3296.9 | 3366.6 | 4292.9 | 7437.9 | 9723.8 | 10261.6 | 11043.5 | 10308.9 | 9880.6 |
| 62.5° | 2739.1 | 2676.8 | 2766.5 | 2866.1 | 2983.1 | 4614.1 | 6832.8 | 7149.0 | 8767.6 | 8229.7 | 7422.9 |
| 65° | 2124.0 | 2094.2 | 2206.2 | 2529.9 | 2599.6 | 2930.8 | 3892.0 | 4136.0 | 5176.9 | 5084.7 | 4477.2 |
| 67.5° | 1461.7 | 1466.7 | 1563.8 | 2056.8 | 2410.4 | 2380.5 | 2383.0 | 2510.0 | 2701.7 | 2007.0 | 1748.0 |
| 70° | 926.3 | 923.8 | 976.1 | 1324.7 | 1939.8 | 1959.7 | 1860.1 | 1822.7 | 1728.1 | 1045.8 | 1108.1 |
| 72.5° | 595.1 | 577.7 | 605.1 | 732.1 | 1003.5 | 1160.4 | 1195.2 | 1217.7 | 1001.0 | 821.7 | 891.4 |
| 75° | 336.2 | 318.7 | 308.8 | 341.1 | 395.9 | 458.2 | 503.0 | 517.9 | 580.2 | 622.5 | 659.9 |
| 77.5° | 102.1 | 92.1 | 112.1 | 149.4 | 196.7 | 263.9 | 321.2 | 331.2 | 390.9 | 440.7 | 478.1 |
| 80° | 44.8 | 49.8 | 69.7 | 99.6 | 139.4 | 186.8 | 226.6 | 241.5 | 281.4 | 318.7 | 328.7 |
| 82.5° | 27.4 | 29.9 | 47.3 | 67.2 | 97.1 | 132.0 | 161.9 | 166.8 | 206.7 | 236.6 | 244.0 |
| 85° | 10.0 | 12.5 | 24.9 | 39.8 | 62.3 | 84.7 | 84.7 | 92.1 | 84.7 | 84.7 | 92.1 |
| 87.5° | 0.0 | 0.0 | 2.5 | 5.0 | 5.0 | 7.5 | 10.0 | 10.0 | 12.5 | 14.9 | 17.4 |
| 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-SA5A-740-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 | 6421.9 |
| 2.5° | 6439.4 | 6426.9 | 6407.0 | 6334.8 | 6327.3 | 6304.9 | 6180.4 | 6160.5 | 6180.4 | 6120.6 | 6125.6 |
| 5° | 6426.9 | 6464.3 | 6314.9 | 6242.6 | 6108.2 | 6011.1 | 5899.0 | 5841.7 | 5739.6 | 5674.9 | 5747.1 |
| 7.5° | 6481.7 | 6466.7 | 6280.0 | 6123.1 | 5921.4 | 5674.9 | 5478.2 | 5366.1 | 5186.8 | 5137.0 | 5174.4 |
| 10° | 6461.8 | 6382.1 | 6163.0 | 5956.3 | 5575.3 | 5358.7 | 5039.9 | 4731.2 | 4561.8 | 4474.7 | 4462.2 |
| 12.5° | 6434.4 | 6412.0 | 6045.9 | 5689.8 | 5288.9 | 4833.3 | 4385.0 | 4093.7 | 3817.3 | 3697.8 | 3715.2 |
| 15° | 6466.7 | 6277.5 | 5826.8 | 5376.1 | 4843.2 | 4245.6 | 3762.5 | 3386.5 | 3194.8 | 3117.6 | 3117.6 |
| 17.5° | 6451.8 | 6212.8 | 5722.2 | 5025.0 | 4350.2 | 3643.0 | 3112.6 | 2886.0 | 2806.3 | 2806.3 | 2828.7 |
| 20° | 6459.3 | 6255.1 | 5510.6 | 4673.9 | 3767.5 | 3067.8 | 2681.8 | 2599.6 | 2634.5 | 2647.0 | 2659.4 |
| 22.5° | 6501.6 | 6115.6 | 5303.9 | 4287.9 | 3227.1 | 2624.5 | 2435.3 | 2437.8 | 2500.0 | 2567.3 | 2554.8 |
| 25° | 6553.9 | 6060.9 | 5052.4 | 3904.4 | 2813.8 | 2407.9 | 2348.1 | 2340.7 | 2388.0 | 2422.9 | 2427.8 |
| 27.5° | 6509.1 | 5966.2 | 4795.9 | 3426.4 | 2475.1 | 2263.5 | 2251.0 | 2256.0 | 2271.0 | 2340.7 | 2318.3 |
| 30° | 6656.0 | 5993.6 | 4474.7 | 3025.5 | 2288.4 | 2216.2 | 2201.2 | 2193.8 | 2216.2 | 2236.1 | 2218.7 |
| 32.5° | 6837.8 | 5896.5 | 4235.6 | 2639.5 | 2196.3 | 2181.3 | 2151.4 | 2141.5 | 2153.9 | 2134.0 | 2144.0 |
| 35° | 6917.5 | 5879.1 | 3924.4 | 2363.1 | 2124.0 | 2111.6 | 2094.2 | 2091.7 | 2094.2 | 2076.7 | 2061.8 |
| 37.5° | 6962.3 | 5961.3 | 3568.3 | 2236.1 | 2079.2 | 2091.7 | 2051.8 | 2046.8 | 2002.0 | 2012.0 | 2019.5 |
| 40° | 7039.5 | 5834.3 | 3279.4 | 2114.1 | 2051.8 | 2026.9 | 1992.1 | 1984.6 | 1954.7 | 1937.3 | 1954.7 |
| 42.5° | 6927.4 | 5796.9 | 2995.6 | 2061.8 | 2012.0 | 1984.6 | 1959.7 | 1917.4 | 1907.4 | 1892.5 | 1882.5 |
| 45° | 6837.8 | 5582.8 | 2741.6 | 1997.0 | 1964.7 | 1949.7 | 1902.4 | 1857.6 | 1820.3 | 1835.2 | 1812.8 |
| 47.5° | 6905.0 | 5508.1 | 2490.1 | 1942.3 | 1899.9 | 1882.5 | 1835.2 | 1800.3 | 1763.0 | 1745.5 | 1740.6 |
| 50° | 7173.9 | 5647.5 | 2278.4 | 1902.4 | 1845.2 | 1835.2 | 1772.9 | 1733.1 | 1698.2 | 1685.8 | 1690.8 |
| 52.5° | 7816.4 | 6028.5 | 2134.0 | 1820.3 | 1792.9 | 1748.0 | 1713.2 | 1663.4 | 1641.0 | 1601.1 | 1626.0 |
| 55° | 8630.6 | 6648.5 | 2096.6 | 1743.1 | 1728.1 | 1688.3 | 1641.0 | 1603.6 | 1561.3 | 1528.9 | 1521.4 |
| 56° | 8892.1 | 6944.8 | 2066.8 | 1713.2 | 1688.3 | 1665.9 | 1603.6 | 1581.2 | 1514.0 | 1506.5 | 1501.5 |
| 57.5° | 9103.7 | 7206.3 | 2071.7 | 1655.9 | 1631.0 | 1611.1 | 1573.7 | 1519.0 | 1474.1 | 1446.7 | 1459.2 |
| 60° | 8625.6 | 6745.6 | 1977.1 | 1568.8 | 1563.8 | 1526.4 | 1474.1 | 1449.2 | 1394.4 | 1362.1 | 1354.6 |
| 62.5° | 6412.0 | 4579.3 | 1603.6 | 1456.7 | 1454.2 | 1414.4 | 1354.6 | 1327.2 | 1317.3 | 1272.4 | 1272.4 |
| 65° | 3692.8 | 2871.1 | 1387.0 | 1364.6 | 1344.6 | 1304.8 | 1245.0 | 1222.6 | 1197.7 | 1182.8 | 1170.3 |
| 67.5° | 1576.2 | 1489.1 | 1260.0 | 1257.5 | 1235.1 | 1185.3 | 1125.5 | 1090.7 | 1058.3 | 1028.4 | 1043.3 |
| 70° | 1142.9 | 1160.4 | 1138.0 | 1125.5 | 1098.1 | 1035.9 | 983.6 | 941.3 | 891.4 | 871.5 | 886.5 |
| 72.5° | 906.4 | 943.7 | 976.1 | 978.6 | 946.2 | 874.0 | 816.7 | 759.5 | 704.7 | 677.3 | 689.8 |
| 75° | 687.3 | 712.2 | 744.5 | 752.0 | 704.7 | 654.9 | 600.1 | 540.3 | 498.0 | 465.6 | 470.6 |
| 77.5° | 495.5 | 490.5 | 520.4 | 515.4 | 493.0 | 458.2 | 408.4 | 353.6 | 306.3 | 276.4 | 278.9 |
| 80° | 338.7 | 346.1 | 363.6 | 361.1 | 333.7 | 311.3 | 273.9 | 229.1 | 194.2 | 169.3 | 164.3 |
| 82.5° | 236.6 | 249.0 | 263.9 | 251.5 | 229.1 | 206.7 | 179.3 | 146.9 | 119.5 | 99.6 | 94.6 |
| 85° | 84.7 | 97.1 | 112.1 | 119.5 | 127.0 | 122.0 | 102.1 | 82.2 | 59.8 | 49.8 | 47.3 |
| 87.5° | 17.4 | 19.9 | 22.4 | 22.4 | 22.4 | 19.9 | 17.4 | 17.4 | 14.9 | 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)