

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: P454430

Luminaire Tested: **GALN-SA5C-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28815 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

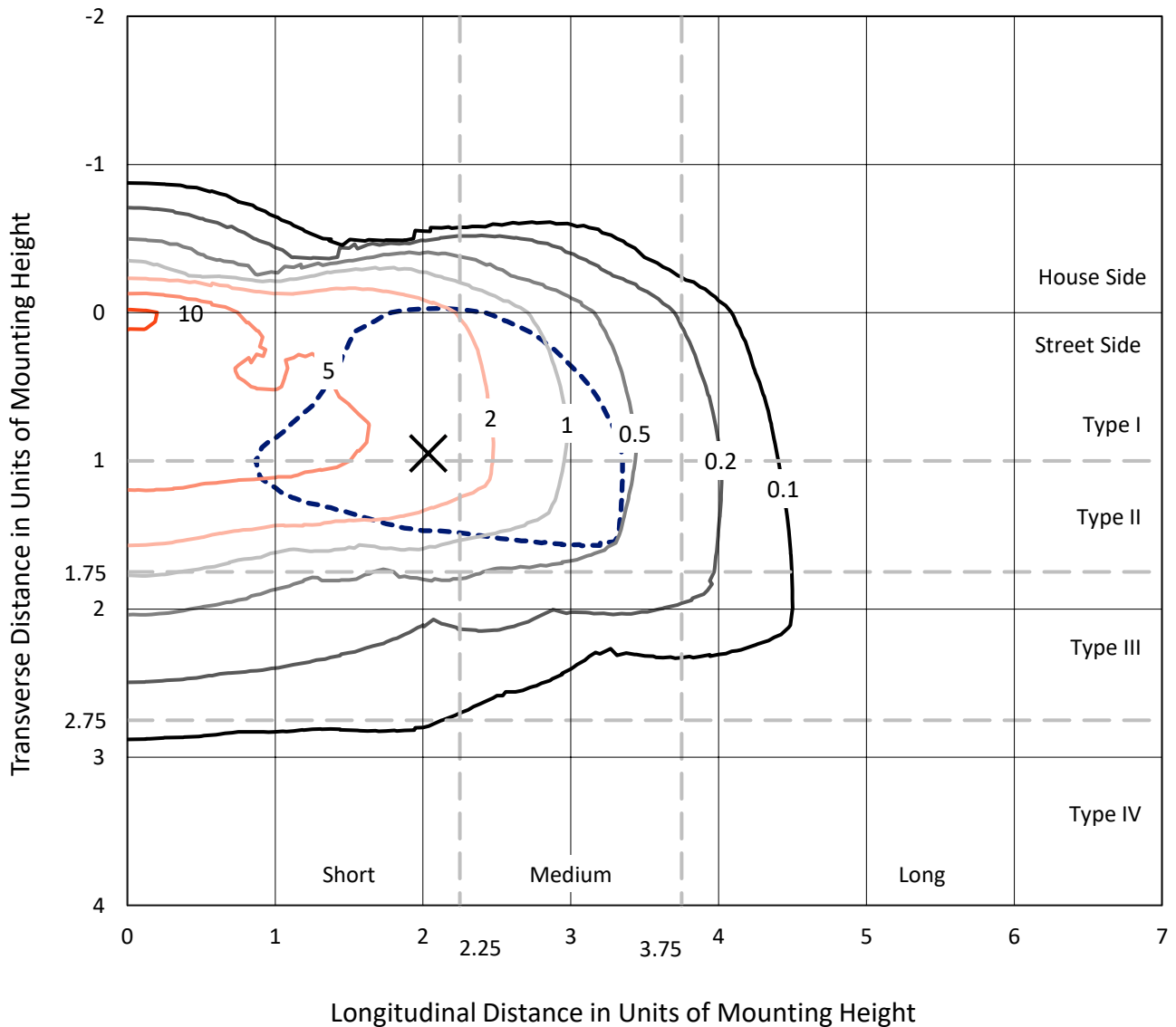
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

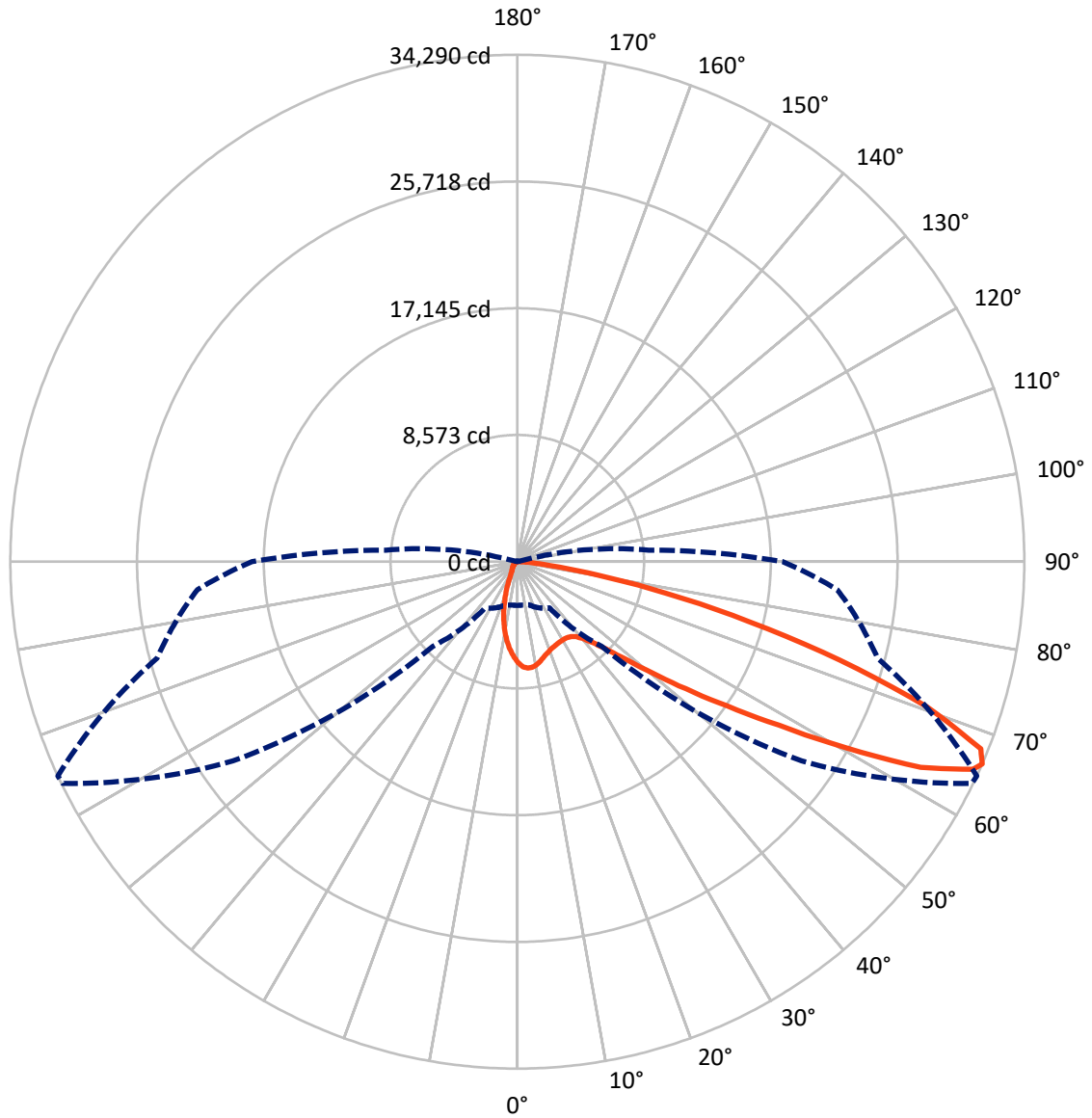
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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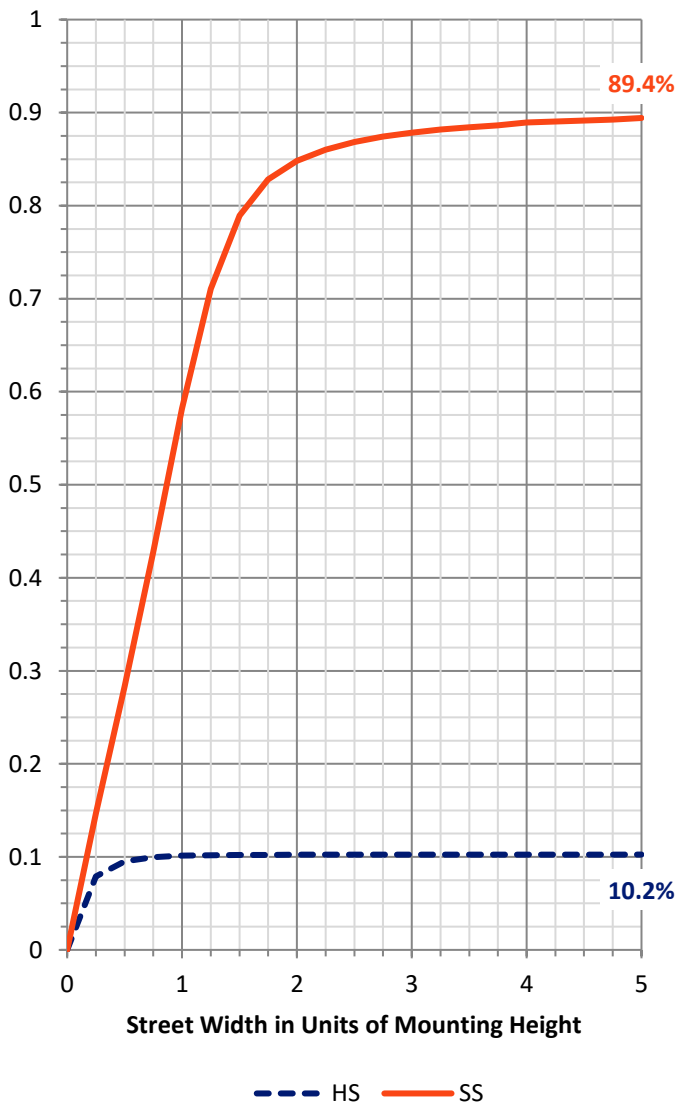
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2979.9 | 0.0 | 2979.9 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 25835.1 | 0.0 | 25835.1 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 28815.0 | 0.0 | 28815.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 558.8 | 1.9 |
| 10°-20° | 1217.6 | 4.2 |
| 20°-30° | 1744.3 | 6.1 |
| 30°-40° | 2547.7 | 8.8 |
| 40°-50° | 4272.0 | 14.8 |
| 50°-60° | 7129.2 | 24.7 |
| 60°-70° | 7567.4 | 26.3 |
| 70°-80° | 3427.3 | 11.9 |
| 80°-90° | 350.7 | 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° | 28815.0 | 100.0 |
| 0°-180° | 28815.0 | 100.0 |



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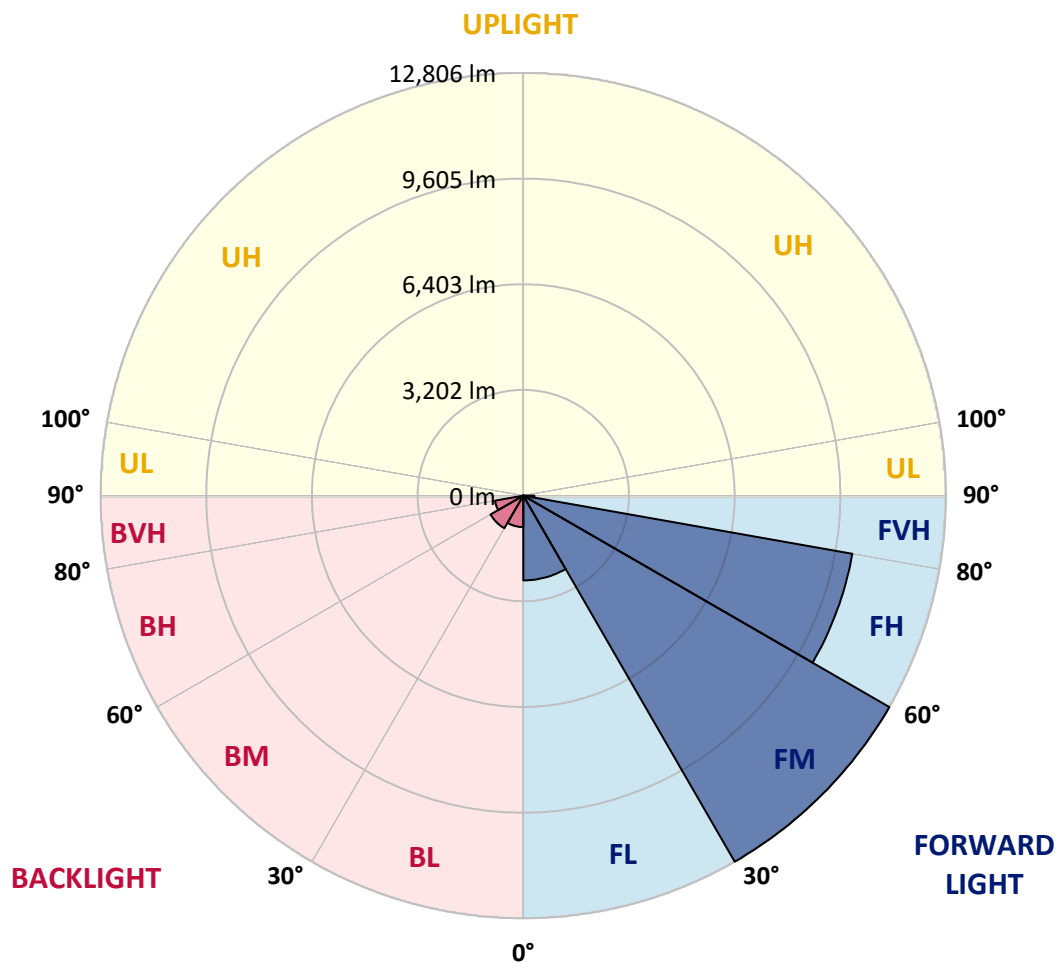
CATALOG NUMBER: GALN-SA5C-740-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2567.5 | 8.9 | | | |
| FM (30°-60°) | 12806.0 | 44.4 | | | |
| FH (60°-80°) | 10122.1 | 35.1 | | | G4/12000 |
| FVH (80°-90°) | 339.5 | 1.2 | | | G3/500 |
| BL (0°-30°) | 953.2 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1142.8 | 4.0 | B2/2500 | | |
| BH (60°-80°) | 872.7 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 11.2 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 |
| 2.5° | 7200.9 | 7208.7 | 7218.4 | 7232.1 | 7241.8 | 7212.6 | 7171.7 | 7125.0 | 7115.3 | 7016.0 | 6895.4 |
| 5° | 6815.6 | 6827.3 | 6912.9 | 6959.6 | 7064.7 | 7160.1 | 7220.4 | 7228.2 | 7224.3 | 7130.9 | 6938.2 |
| 7.5° | 6266.8 | 6299.8 | 6383.5 | 6465.3 | 6661.8 | 6842.8 | 7056.9 | 7206.8 | 7216.5 | 7191.2 | 6951.8 |
| 10° | 5821.1 | 5842.5 | 5885.3 | 6046.8 | 6210.3 | 6486.7 | 6786.4 | 7068.6 | 7091.9 | 7193.1 | 6940.1 |
| 12.5° | 5472.7 | 5503.8 | 5556.4 | 5681.0 | 5877.5 | 6138.3 | 6478.9 | 6858.4 | 6907.1 | 7156.2 | 6907.1 |
| 15° | 5229.4 | 5245.0 | 5297.5 | 5420.2 | 5610.9 | 5852.2 | 6196.7 | 6638.5 | 6681.3 | 7107.5 | 6901.2 |
| 17.5° | 5114.6 | 5132.1 | 5169.1 | 5266.4 | 5424.1 | 5647.9 | 5984.6 | 6461.4 | 6515.9 | 7076.4 | 6922.6 |
| 20° | 5145.7 | 5161.3 | 5163.3 | 5213.9 | 5320.9 | 5509.7 | 5828.9 | 6295.9 | 6366.0 | 7056.9 | 6957.7 |
| 22.5° | 5322.9 | 5324.8 | 5301.4 | 5278.1 | 5315.1 | 5451.3 | 5733.5 | 6190.9 | 6262.9 | 7053.0 | 6998.5 |
| 25° | 5587.5 | 5593.4 | 5554.4 | 5472.7 | 5398.8 | 5468.8 | 5712.1 | 6122.7 | 6187.0 | 7043.3 | 7023.8 |
| 27.5° | 5953.4 | 5951.5 | 5939.8 | 5803.6 | 5593.4 | 5546.7 | 5729.6 | 6085.8 | 6140.3 | 7016.0 | 7033.6 |
| 30° | 6465.3 | 6449.7 | 6424.4 | 6270.6 | 5949.5 | 5735.4 | 5803.6 | 6062.4 | 6113.0 | 6977.1 | 7008.3 |
| 32.5° | 6969.3 | 7027.7 | 7023.8 | 6877.9 | 6476.9 | 6072.1 | 5957.3 | 6093.5 | 6130.5 | 6951.8 | 6971.3 |
| 35° | 7557.1 | 7555.1 | 7705.0 | 7650.5 | 7181.5 | 6502.2 | 6220.0 | 6196.7 | 6225.9 | 6969.3 | 6953.8 |
| 37.5° | 8102.0 | 8152.6 | 8386.2 | 8442.6 | 8014.4 | 7109.5 | 6591.8 | 6418.6 | 6428.3 | 7088.1 | 6996.6 |
| 40° | 8781.2 | 8878.6 | 9226.9 | 9415.7 | 9038.1 | 8010.5 | 7140.6 | 6825.3 | 6827.3 | 7380.0 | 7158.1 |
| 42.5° | 9657.0 | 9810.8 | 10135.8 | 10451.1 | 10248.7 | 9077.1 | 7963.8 | 7469.5 | 7465.6 | 7893.8 | 7527.9 |
| 45° | 10721.6 | 10828.6 | 11198.4 | 11698.6 | 11570.1 | 10565.9 | 9162.7 | 8467.9 | 8417.3 | 8736.5 | 8183.8 |
| 47.5° | 11640.2 | 11786.2 | 12161.8 | 12732.0 | 13315.9 | 12383.7 | 10595.1 | 9840.0 | 9806.9 | 10077.4 | 9308.7 |
| 50° | 12041.1 | 12169.6 | 12564.7 | 13364.5 | 14779.4 | 14769.7 | 12728.1 | 11842.6 | 11786.2 | 11932.1 | 11048.6 |
| 52.5° | 11601.3 | 11721.9 | 12120.9 | 13117.4 | 15468.4 | 17677.3 | 15818.7 | 14355.2 | 14287.0 | 14100.2 | 13127.1 |
| 55° | 10094.9 | 10194.2 | 10783.9 | 11928.2 | 15203.7 | 19615.7 | 20077.0 | 17459.3 | 17194.7 | 16468.7 | 15480.1 |
| 57.5° | 8037.8 | 7987.2 | 8353.1 | 9682.3 | 13650.6 | 20265.8 | 24448.1 | 21326.4 | 20853.5 | 18516.1 | 17471.0 |
| 60° | 5570.0 | 5725.7 | 5873.6 | 6749.4 | 10264.2 | 19138.9 | 27167.0 | 26188.0 | 25565.2 | 20530.4 | 19378.3 |
| 62.5° | 4094.8 | 4197.9 | 4295.3 | 4700.1 | 6453.6 | 15281.5 | 27647.7 | 31182.0 | 30629.3 | 22669.3 | 21198.0 |
| 65° | 3238.5 | 3246.3 | 3285.2 | 3684.2 | 4252.4 | 9937.3 | 25337.5 | 33998.1 | 33856.1 | 24728.4 | 21935.6 |
| 66° | 2950.4 | 2952.4 | 3012.7 | 3440.9 | 3816.5 | 8092.3 | 23486.7 | 34212.2 | 34290.1 | 25222.7 | 21719.6 |
| 67.5° | 2578.7 | 2570.9 | 2658.5 | 3092.5 | 3475.9 | 5834.7 | 20174.3 | 33344.2 | 33805.4 | 25602.2 | 20943.0 |
| 70° | 1998.7 | 1989.0 | 2096.1 | 2594.3 | 3201.5 | 3892.4 | 13409.3 | 28630.5 | 29374.0 | 24825.7 | 18529.7 |
| 72.5° | 1331.2 | 1339.0 | 1521.9 | 2047.4 | 3055.5 | 3427.3 | 8067.0 | 21779.9 | 22830.8 | 20501.2 | 14577.0 |
| 75° | 776.5 | 790.2 | 998.4 | 1521.9 | 2652.7 | 3267.7 | 4565.8 | 15530.7 | 16202.1 | 14156.6 | 9081.0 |
| 77.5° | 406.8 | 412.6 | 558.6 | 1004.2 | 2033.8 | 3034.1 | 3041.9 | 9921.7 | 10237.0 | 6879.8 | 3594.6 |
| 80° | 216.0 | 210.2 | 299.7 | 605.3 | 1399.3 | 2664.3 | 2467.8 | 5252.8 | 5461.0 | 2043.5 | 908.9 |
| 82.5° | 81.7 | 89.5 | 159.6 | 397.0 | 827.1 | 1913.1 | 2125.2 | 2321.8 | 2249.8 | 449.6 | 381.5 |
| 85° | 15.6 | 19.5 | 68.1 | 235.5 | 416.5 | 799.9 | 1566.7 | 1138.5 | 1054.8 | 169.3 | 219.9 |
| 87.5° | 1.9 | 3.9 | 19.5 | 56.4 | 60.3 | 270.5 | 463.2 | 315.3 | 272.5 | 62.3 | 91.5 |
| 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-SA5C-740-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 | 6833.1 |
| 2.5° | 6837.0 | 6784.4 | 6609.3 | 6436.1 | 6259.0 | 6099.4 | 5990.4 | 5813.3 | 5768.5 | 5704.3 | 5667.3 |
| 5° | 6823.4 | 6700.8 | 6364.1 | 5996.2 | 5653.7 | 5283.9 | 5001.7 | 4729.3 | 4583.3 | 4509.3 | 4482.1 |
| 7.5° | 6784.4 | 6589.8 | 6064.4 | 5488.3 | 4939.4 | 4386.7 | 3906.0 | 3540.1 | 3304.6 | 3143.1 | 3034.1 |
| 10° | 6706.6 | 6438.0 | 5716.0 | 4923.9 | 4094.8 | 3365.0 | 2755.8 | 2292.6 | 1934.5 | 1821.6 | 1825.5 |
| 12.5° | 6626.8 | 6268.7 | 5326.7 | 4297.2 | 3269.6 | 2349.1 | 1702.9 | 1337.0 | 1165.8 | 1109.3 | 1097.7 |
| 15° | 6552.8 | 6107.2 | 4945.3 | 3690.0 | 2434.7 | 1521.9 | 1097.7 | 969.2 | 922.5 | 912.8 | 910.8 |
| 17.5° | 6513.9 | 5957.3 | 4538.5 | 2995.2 | 1699.0 | 1033.4 | 879.7 | 844.6 | 831.0 | 821.3 | 817.4 |
| 20° | 6480.8 | 5826.9 | 4149.3 | 2345.2 | 1161.9 | 846.6 | 788.2 | 755.1 | 731.8 | 722.0 | 716.2 |
| 22.5° | 6457.5 | 5692.6 | 3746.4 | 1815.8 | 889.4 | 751.2 | 698.7 | 655.9 | 622.8 | 611.1 | 603.3 |
| 25° | 6422.5 | 5544.7 | 3339.7 | 1327.3 | 749.3 | 667.5 | 607.2 | 556.6 | 513.8 | 492.4 | 488.5 |
| 27.5° | 6371.9 | 5377.3 | 2894.0 | 982.8 | 669.5 | 593.6 | 519.6 | 457.4 | 414.5 | 391.2 | 393.1 |
| 30° | 6290.1 | 5202.2 | 2448.3 | 780.4 | 605.3 | 517.7 | 437.9 | 377.6 | 336.7 | 319.2 | 317.2 |
| 32.5° | 6192.8 | 4990.1 | 2039.6 | 669.5 | 546.9 | 449.6 | 365.9 | 313.3 | 282.2 | 268.6 | 266.6 |
| 35° | 6101.3 | 4776.0 | 1623.1 | 601.4 | 486.5 | 387.3 | 307.5 | 262.7 | 239.4 | 227.7 | 229.7 |
| 37.5° | 6050.7 | 4585.2 | 1265.0 | 546.9 | 437.9 | 332.8 | 264.7 | 225.8 | 204.4 | 194.6 | 192.7 |
| 40° | 6083.8 | 4429.5 | 1006.2 | 498.2 | 383.4 | 286.1 | 227.7 | 194.6 | 173.2 | 159.6 | 159.6 |
| 42.5° | 6239.5 | 4361.4 | 811.6 | 451.5 | 332.8 | 247.2 | 198.5 | 167.4 | 144.0 | 130.4 | 132.3 |
| 45° | 6714.4 | 4433.4 | 679.2 | 408.7 | 286.1 | 214.1 | 171.3 | 138.2 | 116.8 | 107.0 | 105.1 |
| 47.5° | 7502.6 | 4704.0 | 587.8 | 363.9 | 245.2 | 182.9 | 144.0 | 114.8 | 93.4 | 85.6 | 83.7 |
| 50° | 8880.5 | 5262.5 | 519.6 | 319.2 | 208.2 | 155.7 | 118.7 | 91.5 | 74.0 | 66.2 | 66.2 |
| 52.5° | 10776.1 | 6480.8 | 471.0 | 268.6 | 175.2 | 132.3 | 97.3 | 74.0 | 58.4 | 52.5 | 50.6 |
| 55° | 12757.3 | 7765.3 | 445.7 | 225.8 | 146.0 | 109.0 | 77.8 | 58.4 | 44.8 | 38.9 | 37.0 |
| 57.5° | 14662.7 | 8773.5 | 416.5 | 182.9 | 116.8 | 83.7 | 60.3 | 44.8 | 31.1 | 27.2 | 25.3 |
| 60° | 16490.1 | 9588.9 | 354.2 | 146.0 | 91.5 | 60.3 | 44.8 | 31.1 | 21.4 | 17.5 | 17.5 |
| 62.5° | 18124.9 | 10063.8 | 278.3 | 116.8 | 70.1 | 42.8 | 29.2 | 23.4 | 15.6 | 11.7 | 11.7 |
| 65° | 18315.7 | 9446.8 | 210.2 | 89.5 | 50.6 | 27.2 | 17.5 | 17.5 | 11.7 | 7.8 | 7.8 |
| 66° | 17932.3 | 8923.3 | 184.9 | 81.7 | 44.8 | 23.4 | 15.6 | 13.6 | 9.7 | 5.8 | 5.8 |
| 67.5° | 17075.9 | 8030.0 | 159.6 | 70.1 | 37.0 | 17.5 | 11.7 | 11.7 | 7.8 | 3.9 | 3.9 |
| 70° | 14754.1 | 6558.7 | 126.5 | 52.5 | 27.2 | 13.6 | 7.8 | 7.8 | 5.8 | 3.9 | 3.9 |
| 72.5° | 11245.1 | 4896.6 | 103.1 | 38.9 | 19.5 | 9.7 | 5.8 | 5.8 | 5.8 | 3.9 | 3.9 |
| 75° | 6782.5 | 2637.1 | 79.8 | 29.2 | 17.5 | 7.8 | 3.9 | 5.8 | 7.8 | 5.8 | 3.9 |
| 77.5° | 2498.9 | 897.2 | 62.3 | 23.4 | 13.6 | 7.8 | 3.9 | 3.9 | 7.8 | 5.8 | 5.8 |
| 80° | 613.1 | 233.5 | 44.8 | 19.5 | 13.6 | 7.8 | 3.9 | 3.9 | 7.8 | 7.8 | 7.8 |
| 82.5° | 284.1 | 99.3 | 31.1 | 17.5 | 13.6 | 7.8 | 3.9 | 3.9 | 5.8 | 7.8 | 7.8 |
| 85° | 163.5 | 46.7 | 25.3 | 19.5 | 13.6 | 7.8 | 3.9 | 3.9 | 5.8 | 7.8 | 7.8 |
| 87.5° | 66.2 | 23.4 | 23.4 | 19.5 | 15.6 | 9.7 | 3.9 | 3.9 | 3.9 | 5.8 | 5.8 |
| 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)