

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: P454431

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35144 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

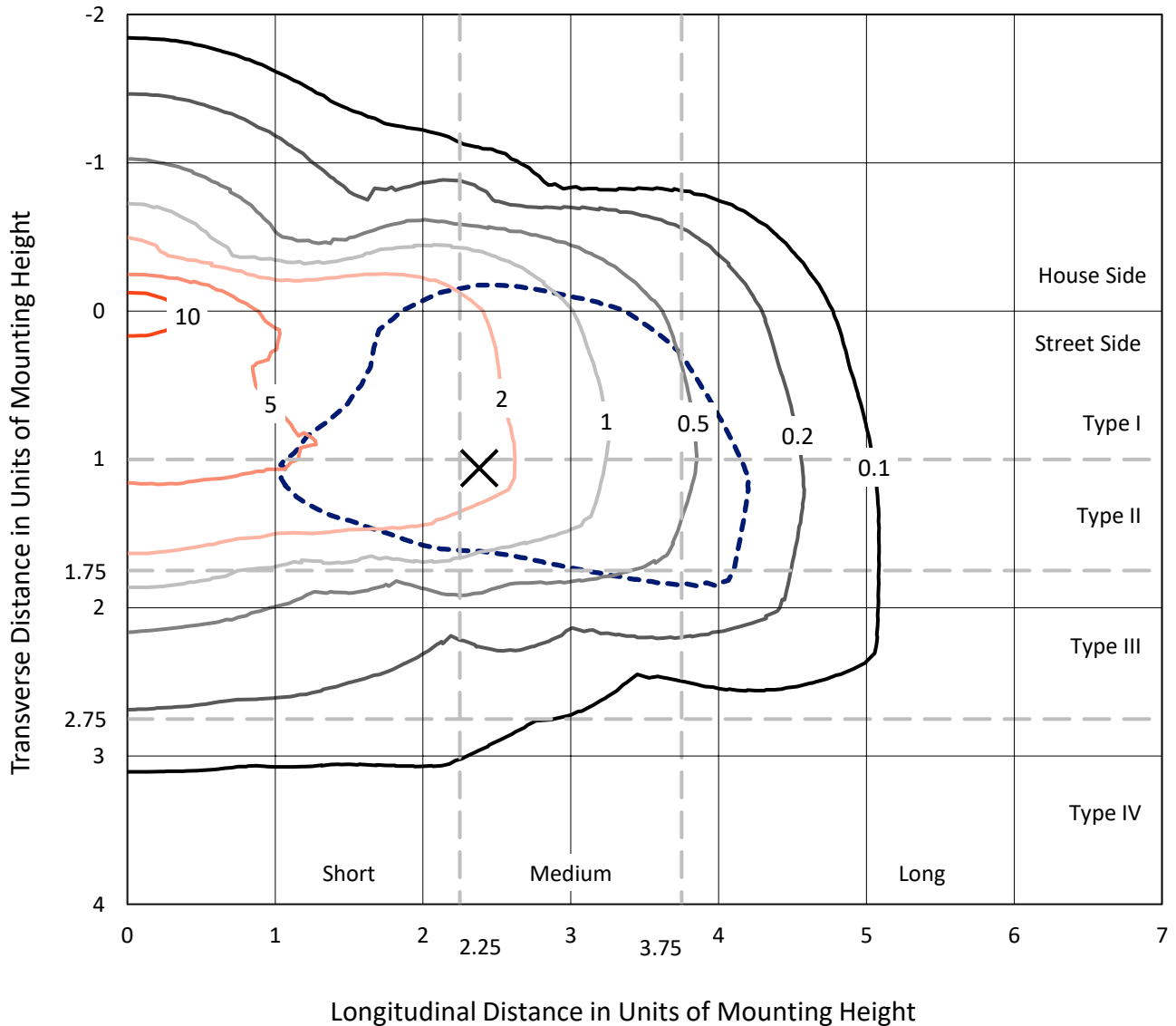
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

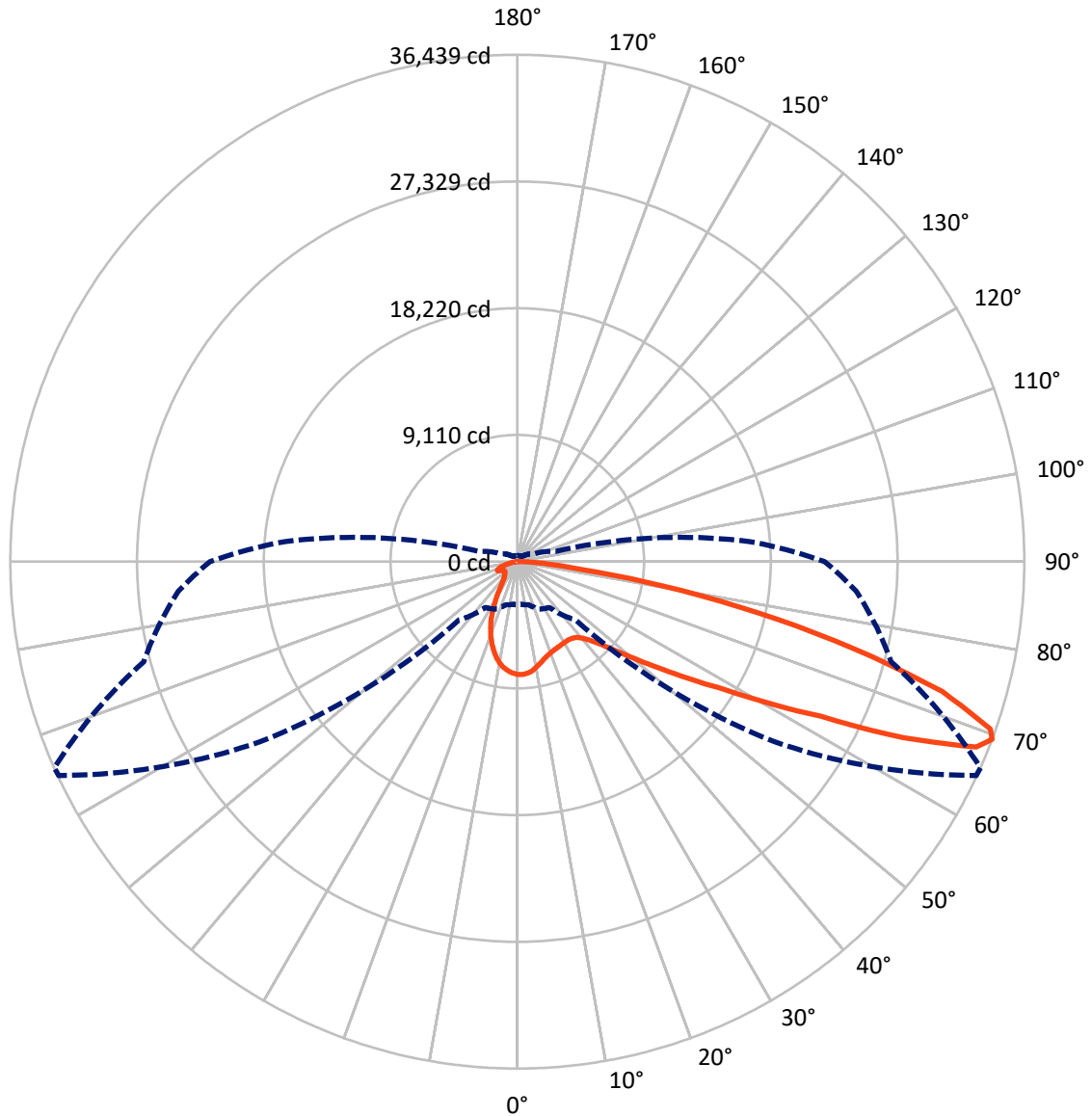
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6609.3 | 0.0 | 6609.3 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 28534.7 | 0.0 | 28534.7 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 35144.0 | 0.0 | 35144.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 704.8 | 2.0 |
| 10°-20° | 1671.6 | 4.8 |
| 20°-30° | 2275.7 | 6.5 |
| 30°-40° | 3058.1 | 8.7 |
| 40°-50° | 4566.2 | 13.0 |
| 50°-60° | 7263.3 | 20.7 |
| 60°-70° | 8933.5 | 25.4 |
| 70°-80° | 5812.5 | 16.5 |
| 80°-90° | 858.3 | 2.4 |
| 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° | 35144.0 | 100.0 |
| 0°-180° | 35144.0 | 100.0 |

Coefficient of Utilization



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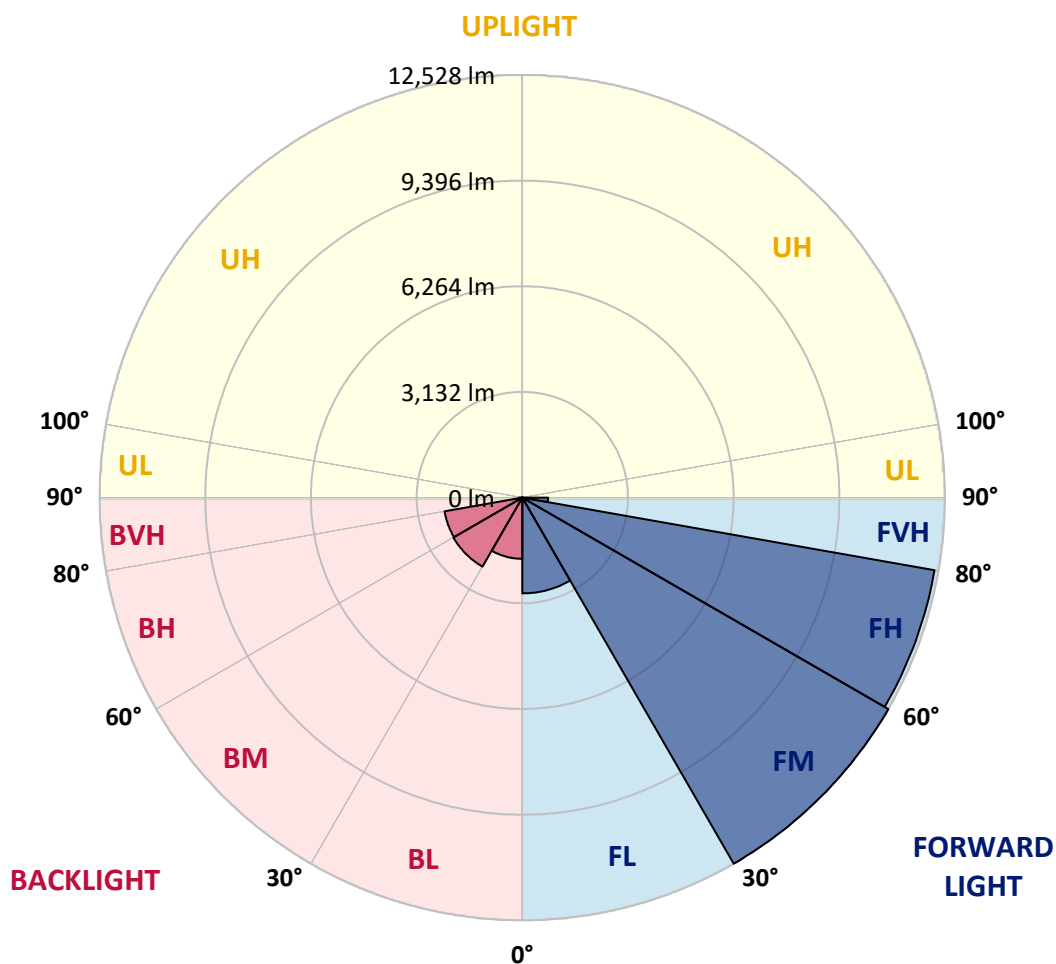
CATALOG NUMBER: GALN-SA5C-740-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2837.8 | 8.1 | | | |
| FM | (30°-60°) | 12527.8 | 35.6 | | | |
| FH | (60°-80°) | 12406.0 | 35.3 | | | G5 |
| FVH | (80°-90°) | 763.1 | 2.2 | | | G5 |
| BL | (0°-30°) | 1814.3 | 5.2 | B3/2500 | | |
| BM | (30°-60°) | 2359.8 | 6.7 | B2/2500 | | |
| BH | (60°-80°) | 2340.0 | 6.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 95.2 | 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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 |
| 2.5° | 7831.6 | 7862.7 | 7897.7 | 7936.7 | 8010.6 | 8051.5 | 8080.7 | 8113.8 | 8117.7 | 8135.2 | 8121.6 |
| 5° | 7253.6 | 7290.5 | 7343.1 | 7417.0 | 7528.0 | 7701.2 | 7880.2 | 8026.2 | 8043.7 | 8125.5 | 8148.8 |
| 7.5° | 6770.9 | 6792.3 | 6835.1 | 6953.8 | 7111.5 | 7304.2 | 7564.9 | 7860.8 | 7903.6 | 8098.2 | 8166.3 |
| 10° | 6377.8 | 6399.2 | 6449.8 | 6572.4 | 6728.1 | 6969.4 | 7255.5 | 7644.7 | 7679.8 | 8014.5 | 8170.2 |
| 12.5° | 6083.9 | 6103.3 | 6157.8 | 6278.5 | 6457.5 | 6683.3 | 6998.6 | 7411.2 | 7461.8 | 7903.6 | 8133.2 |
| 15° | 5860.1 | 5897.0 | 5941.8 | 6041.1 | 6229.8 | 6447.8 | 6753.4 | 7197.1 | 7238.0 | 7786.8 | 8107.9 |
| 17.5° | 5764.7 | 5782.2 | 5813.4 | 5904.8 | 6043.0 | 6257.1 | 6564.6 | 7029.7 | 7078.4 | 7705.1 | 8102.1 |
| 20° | 5768.6 | 5786.1 | 5791.9 | 5842.5 | 5941.8 | 6126.7 | 6430.3 | 6897.4 | 6955.8 | 7633.1 | 8111.8 |
| 22.5° | 5900.9 | 5902.9 | 5881.5 | 5864.0 | 5902.9 | 6056.6 | 6334.9 | 6798.1 | 6866.3 | 7601.9 | 8119.6 |
| 25° | 6105.3 | 6140.3 | 6109.2 | 6027.4 | 5955.4 | 6029.4 | 6298.0 | 6743.6 | 6807.9 | 7557.2 | 8109.9 |
| 27.5° | 6436.1 | 6442.0 | 6416.7 | 6305.7 | 6118.9 | 6064.4 | 6282.4 | 6702.8 | 6757.3 | 7524.1 | 8061.2 |
| 30° | 6879.9 | 6862.4 | 6839.0 | 6716.4 | 6422.5 | 6198.7 | 6315.5 | 6665.8 | 6722.2 | 7475.4 | 8002.8 |
| 32.5° | 7329.5 | 7383.9 | 7362.5 | 7218.5 | 6837.1 | 6459.5 | 6422.5 | 6661.9 | 6708.6 | 7438.4 | 7938.6 |
| 35° | 7806.3 | 7831.6 | 7932.8 | 7858.8 | 7467.6 | 6881.8 | 6623.0 | 6722.2 | 6759.2 | 7440.4 | 7893.9 |
| 37.5° | 8180.0 | 8248.1 | 8485.5 | 8549.7 | 8181.9 | 7440.4 | 6948.0 | 6893.5 | 6909.1 | 7535.8 | 7911.4 |
| 40° | 8631.5 | 8748.2 | 9053.8 | 9316.5 | 9075.2 | 8166.3 | 7500.7 | 7210.7 | 7230.2 | 7765.4 | 8026.2 |
| 42.5° | 9203.7 | 9285.4 | 9696.1 | 10052.2 | 10013.3 | 9125.8 | 8170.2 | 7730.4 | 7740.1 | 8222.8 | 8347.3 |
| 45° | 9873.2 | 9989.9 | 10451.2 | 10986.4 | 11077.9 | 10211.8 | 9137.5 | 8516.6 | 8510.8 | 8933.1 | 8946.8 |
| 47.5° | 10729.5 | 10801.5 | 11258.9 | 11842.7 | 12212.5 | 11576.1 | 10311.1 | 9645.5 | 9583.2 | 9968.5 | 9857.6 |
| 50° | 11517.7 | 11630.6 | 11977.0 | 12615.4 | 13535.9 | 13173.9 | 11854.4 | 11109.0 | 10963.0 | 11323.1 | 11136.3 |
| 52.5° | 11848.6 | 11967.3 | 12259.2 | 13051.3 | 14670.6 | 15240.8 | 13814.3 | 12854.8 | 12611.5 | 12887.9 | 12819.7 |
| 55° | 11274.4 | 11428.2 | 11700.7 | 12664.0 | 15168.8 | 17624.9 | 16457.2 | 14873.0 | 14695.9 | 14577.2 | 14596.6 |
| 57.5° | 9731.1 | 9877.1 | 10244.9 | 11307.5 | 14573.3 | 19355.1 | 20230.9 | 17467.3 | 17087.8 | 16540.9 | 16634.3 |
| 60° | 7407.3 | 7498.8 | 7689.5 | 8867.0 | 12808.1 | 19804.7 | 24516.5 | 20746.7 | 20505.3 | 18496.8 | 18563.0 |
| 62.5° | 5260.6 | 5363.8 | 5496.1 | 6083.9 | 9376.9 | 18537.7 | 27871.8 | 25326.1 | 24464.0 | 20522.9 | 20458.6 |
| 65° | 4271.9 | 4201.9 | 4361.5 | 4635.9 | 5502.0 | 14367.0 | 28626.9 | 31682.5 | 30495.3 | 23191.1 | 22299.8 |
| 67.5° | 3512.9 | 3439.0 | 3596.6 | 4085.1 | 4184.4 | 8339.5 | 25906.1 | 35808.5 | 35571.0 | 26092.9 | 24170.1 |
| 69° | 3110.1 | 3071.1 | 3209.3 | 3765.9 | 4017.0 | 5922.3 | 22568.3 | 36382.6 | 36439.0 | 27803.7 | 24458.1 |
| 70° | 2802.6 | 2818.1 | 2952.4 | 3604.4 | 3941.1 | 4883.1 | 19289.0 | 35590.5 | 36069.2 | 28658.0 | 24146.7 |
| 72.5° | 2063.0 | 2096.1 | 2282.9 | 2985.5 | 3869.1 | 4143.5 | 11478.8 | 31086.9 | 31933.5 | 28708.7 | 22089.6 |
| 75° | 1442.1 | 1426.6 | 1592.0 | 2247.9 | 3655.0 | 4106.5 | 6741.7 | 24041.6 | 25001.1 | 24814.3 | 18561.1 |
| 77.5° | 943.9 | 969.2 | 1101.6 | 1588.1 | 3075.0 | 4075.4 | 4394.6 | 17056.6 | 17679.4 | 16595.4 | 10978.6 |
| 80° | 665.6 | 663.7 | 737.6 | 1084.0 | 2281.0 | 3915.8 | 3598.6 | 10750.9 | 10593.3 | 6521.8 | 3256.0 |
| 82.5° | 381.5 | 408.7 | 494.3 | 762.9 | 1525.8 | 3446.8 | 3310.5 | 5141.9 | 4694.3 | 1858.6 | 1099.6 |
| 85° | 212.1 | 221.9 | 293.9 | 461.3 | 891.4 | 2596.3 | 2890.1 | 2339.4 | 2207.0 | 776.5 | 472.9 |
| 87.5° | 68.1 | 74.0 | 122.6 | 233.5 | 404.8 | 1226.1 | 1636.8 | 1080.2 | 996.5 | 280.3 | 190.7 |
| 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

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 | 8115.7 |
| 2.5° | 8127.4 | 8150.8 | 8088.5 | 8028.1 | 7973.7 | 7897.7 | 7829.6 | 7773.2 | 7734.3 | 7728.4 | 7709.0 |
| 5° | 8154.7 | 8156.6 | 8037.9 | 7878.3 | 7722.6 | 7551.3 | 7374.2 | 7247.7 | 7129.0 | 7062.8 | 7029.7 |
| 7.5° | 8174.1 | 8156.6 | 7942.5 | 7683.7 | 7383.9 | 7072.6 | 6761.2 | 6512.0 | 6319.4 | 6243.5 | 6272.7 |
| 10° | 8166.3 | 8111.8 | 7798.5 | 7383.9 | 6948.0 | 6482.8 | 6035.2 | 5684.9 | 5363.8 | 5198.3 | 5202.2 |
| 12.5° | 8123.5 | 8034.0 | 7584.4 | 7047.3 | 6406.9 | 5784.2 | 5099.1 | 4626.2 | 4254.4 | 4034.5 | 3966.4 |
| 15° | 8086.5 | 7930.8 | 7333.3 | 6589.9 | 5793.9 | 4904.5 | 4069.5 | 3485.7 | 3174.3 | 3001.1 | 2999.1 |
| 17.5° | 8047.6 | 7831.6 | 7058.9 | 6105.3 | 5089.4 | 3945.0 | 3069.2 | 2623.5 | 2477.5 | 2495.1 | 2465.9 |
| 20° | 8006.7 | 7714.8 | 6772.8 | 5566.2 | 4231.1 | 2942.7 | 2298.5 | 2117.5 | 2158.4 | 2238.1 | 2249.8 |
| 22.5° | 7960.0 | 7590.2 | 6465.3 | 4972.6 | 3328.0 | 2214.8 | 1864.5 | 1837.2 | 1942.3 | 2066.9 | 2084.4 |
| 25° | 7888.0 | 7434.6 | 6078.0 | 4351.7 | 2567.1 | 1784.7 | 1632.9 | 1652.3 | 1755.5 | 1860.6 | 1872.3 |
| 27.5° | 7786.8 | 7241.9 | 5686.8 | 3577.1 | 1928.7 | 1531.7 | 1492.7 | 1518.0 | 1568.7 | 1632.9 | 1648.4 |
| 30° | 7650.6 | 7023.9 | 5237.3 | 2907.6 | 1545.3 | 1405.2 | 1389.6 | 1403.2 | 1432.4 | 1459.7 | 1467.4 |
| 32.5° | 7514.3 | 6813.7 | 4783.8 | 2226.5 | 1377.9 | 1321.5 | 1305.9 | 1305.9 | 1305.9 | 1309.8 | 1311.8 |
| 35° | 7387.8 | 6615.2 | 4297.2 | 1734.1 | 1290.3 | 1255.3 | 1233.9 | 1210.5 | 1206.7 | 1193.0 | 1193.0 |
| 37.5° | 7317.8 | 6434.2 | 3779.6 | 1451.9 | 1226.1 | 1200.8 | 1171.6 | 1132.7 | 1111.3 | 1113.2 | 1109.3 |
| 40° | 7331.4 | 6315.5 | 3308.6 | 1292.3 | 1173.6 | 1146.3 | 1101.6 | 1056.8 | 1043.2 | 1043.2 | 1039.3 |
| 42.5° | 7485.2 | 6276.6 | 2857.0 | 1208.6 | 1123.0 | 1091.8 | 1035.4 | 994.5 | 986.7 | 984.8 | 988.7 |
| 45° | 7839.4 | 6371.9 | 2452.2 | 1154.1 | 1080.2 | 1033.4 | 977.0 | 940.0 | 932.2 | 932.2 | 930.3 |
| 47.5° | 8530.3 | 6681.4 | 2162.2 | 1119.1 | 1049.0 | 988.7 | 930.3 | 893.3 | 879.7 | 875.8 | 875.8 |
| 50° | 9604.6 | 7352.8 | 1946.2 | 1087.9 | 1010.1 | 947.8 | 887.5 | 844.7 | 823.2 | 821.3 | 819.4 |
| 52.5° | 11097.3 | 8399.9 | 1862.5 | 1064.6 | 967.3 | 905.0 | 838.8 | 797.9 | 770.7 | 764.9 | 761.0 |
| 55° | 12843.1 | 9861.5 | 1977.4 | 1047.1 | 922.5 | 856.3 | 788.2 | 745.4 | 720.1 | 708.4 | 706.5 |
| 57.5° | 14865.2 | 11617.0 | 2413.3 | 1023.7 | 881.6 | 803.8 | 737.6 | 694.8 | 667.6 | 653.9 | 650.0 |
| 60° | 16681.0 | 13421.1 | 3174.3 | 1010.1 | 846.6 | 747.3 | 679.2 | 640.3 | 615.0 | 601.4 | 599.4 |
| 62.5° | 18675.9 | 15141.6 | 4083.2 | 1047.1 | 831.0 | 692.9 | 624.7 | 589.7 | 568.3 | 554.7 | 554.7 |
| 65° | 20807.0 | 16864.0 | 4684.5 | 1171.6 | 854.4 | 650.0 | 566.3 | 537.2 | 517.7 | 508.0 | 506.0 |
| 67.5° | 22243.3 | 17459.5 | 3859.3 | 1300.1 | 912.8 | 603.3 | 509.9 | 486.6 | 474.9 | 465.1 | 465.1 |
| 69° | 22087.6 | 16706.3 | 2847.3 | 1333.2 | 930.3 | 580.0 | 478.8 | 461.3 | 445.7 | 441.8 | 437.9 |
| 70° | 21595.2 | 15848.0 | 2386.1 | 1311.8 | 916.7 | 558.6 | 459.3 | 437.9 | 424.3 | 420.4 | 418.4 |
| 72.5° | 19234.5 | 13744.2 | 1776.9 | 1140.5 | 780.4 | 484.6 | 406.8 | 387.3 | 375.6 | 369.8 | 369.8 |
| 75° | 15980.4 | 11233.6 | 1387.7 | 906.9 | 611.1 | 408.7 | 348.4 | 332.8 | 323.1 | 319.2 | 317.2 |
| 77.5° | 8956.5 | 6272.7 | 996.5 | 710.4 | 463.2 | 330.9 | 291.9 | 278.3 | 268.6 | 264.7 | 264.7 |
| 80° | 2495.1 | 1792.5 | 585.8 | 469.0 | 315.3 | 251.1 | 231.6 | 221.9 | 208.2 | 198.5 | 204.4 |
| 82.5° | 940.0 | 776.5 | 334.7 | 282.2 | 200.5 | 167.4 | 161.5 | 153.8 | 147.9 | 134.3 | 134.3 |
| 85° | 457.4 | 377.6 | 214.1 | 149.9 | 110.9 | 87.6 | 83.7 | 79.8 | 75.9 | 66.2 | 68.1 |
| 87.5° | 157.6 | 167.4 | 93.4 | 54.5 | 33.1 | 21.4 | 17.5 | 9.7 | 9.7 | 9.7 | 9.7 |
| 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)