

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: P454437

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
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-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30348 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

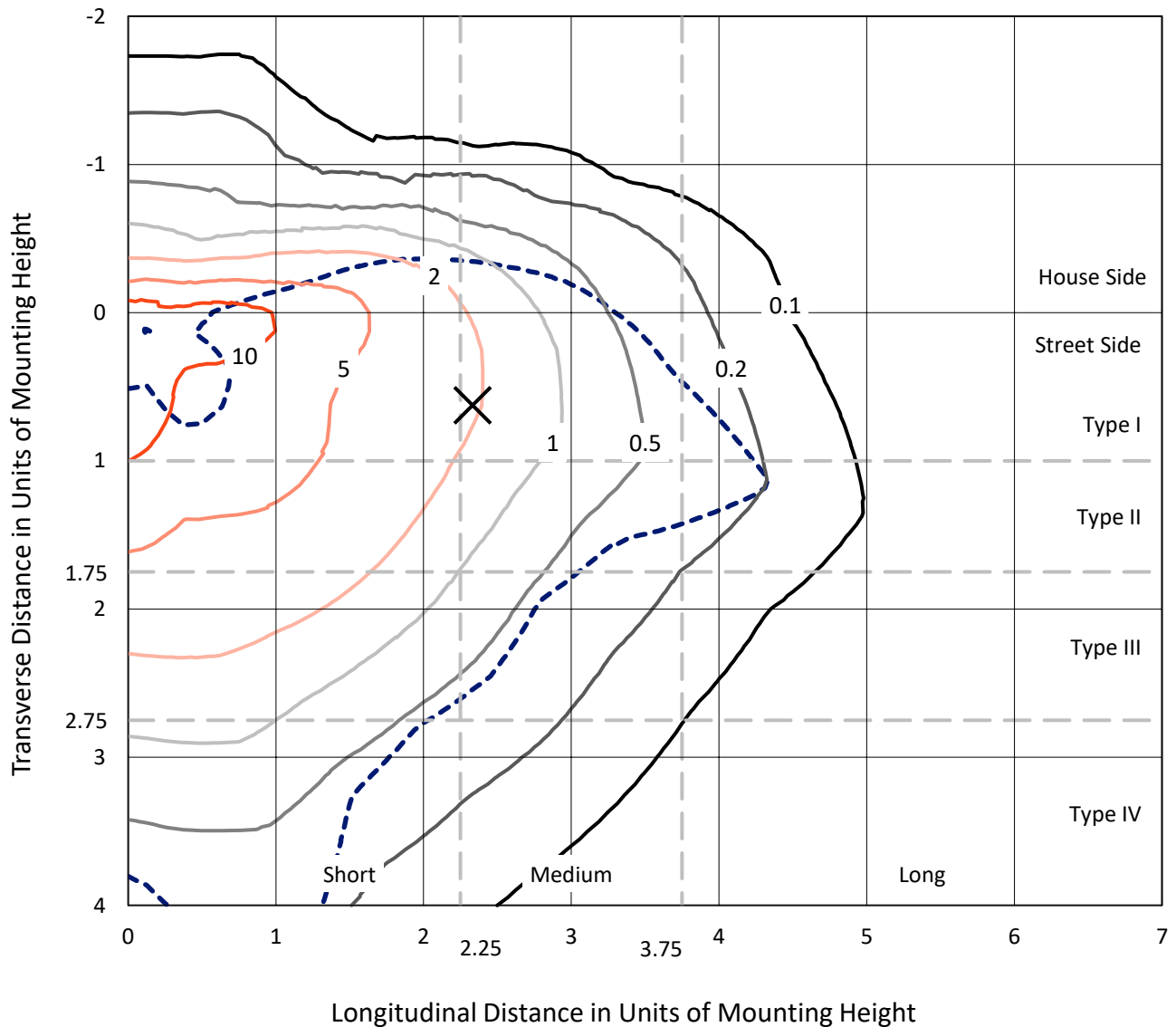
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

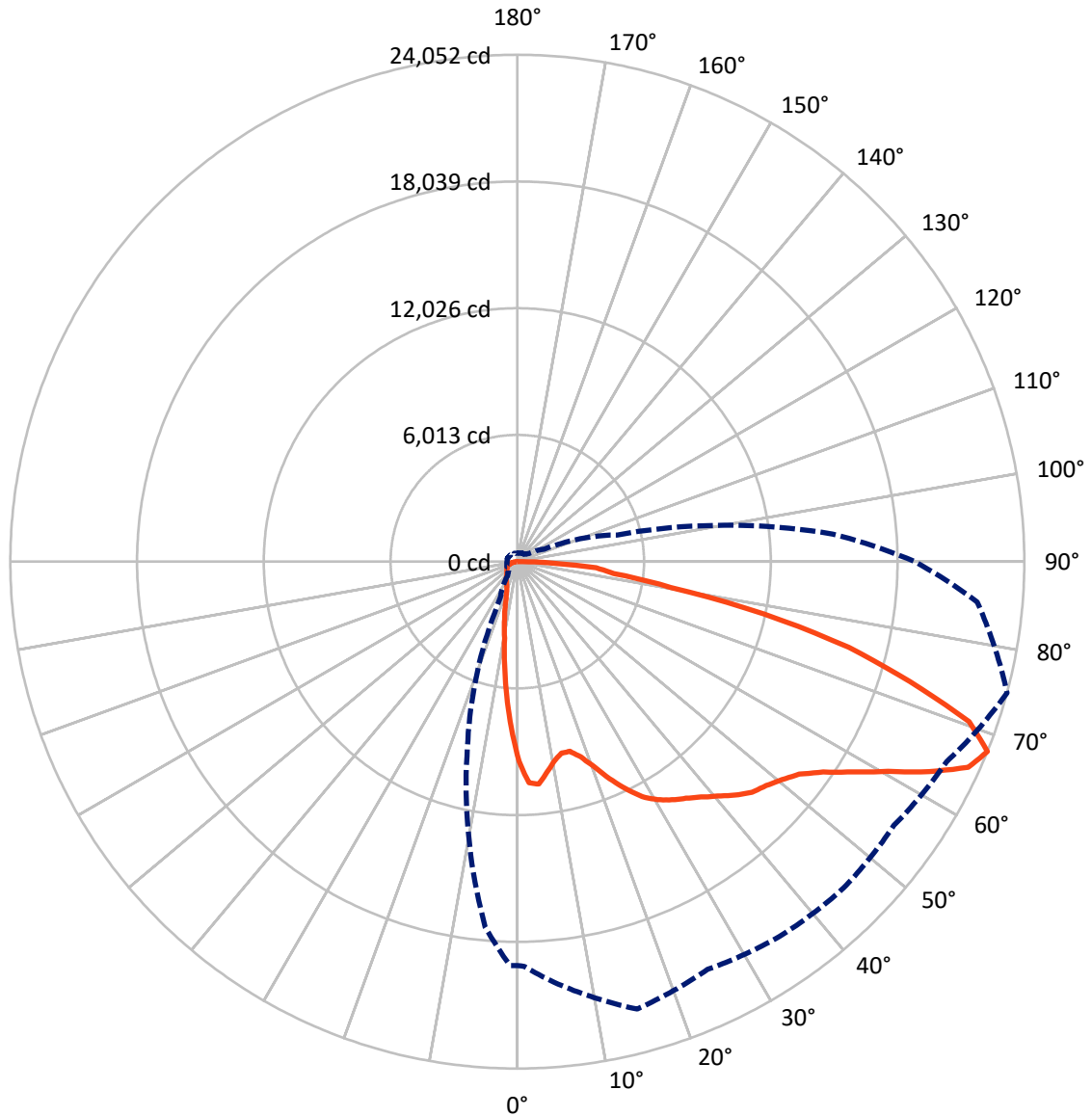
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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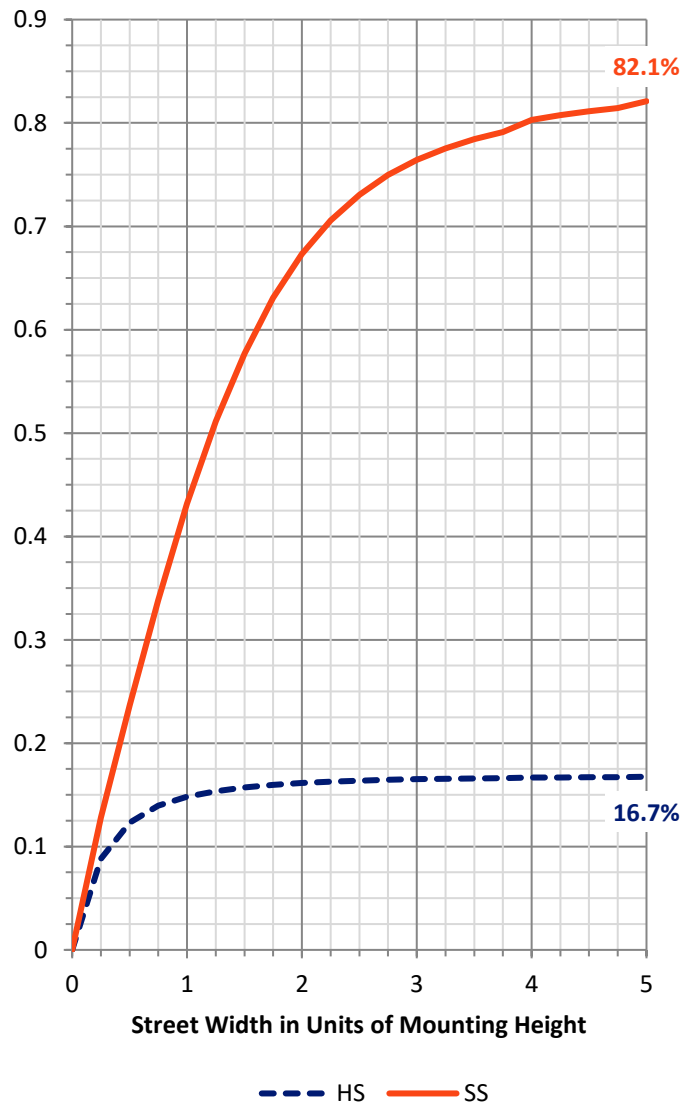
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5129.5 | 0.0 | 5129.5 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 25218.5 | 0.0 | 25218.5 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 30348.0 | 0.0 | 30348.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 719.1 | 2.4 |
| 10°-20° | 1499.8 | 4.9 |
| 20°-30° | 2158.2 | 7.1 |
| 30°-40° | 3108.4 | 10.2 |
| 40°-50° | 4366.5 | 14.4 |
| 50°-60° | 6089.7 | 20.1 |
| 60°-70° | 7240.3 | 23.9 |
| 70°-80° | 4264.1 | 14.1 |
| 80°-90° | 901.7 | 3.0 |
| 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° | 30348.0 | 100.0 |
| 0°-180° | 30348.0 | 100.0 |



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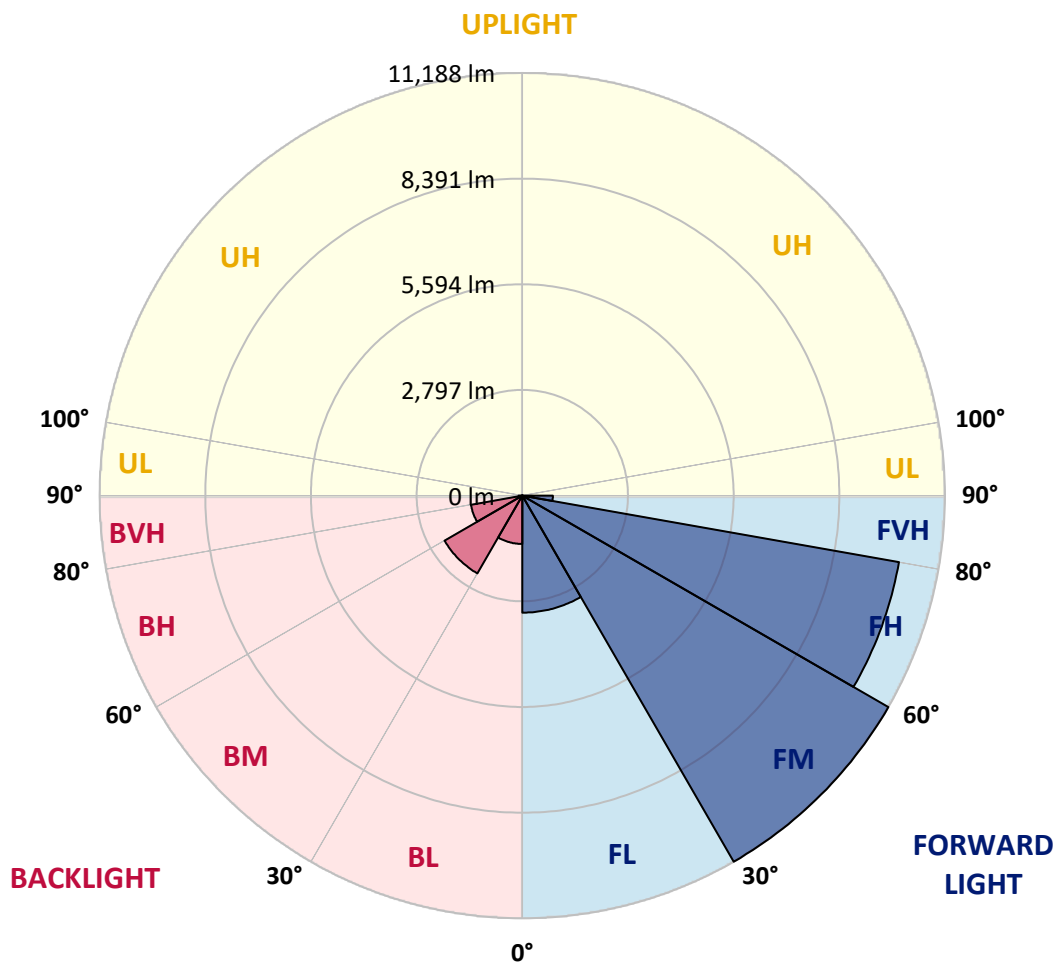
CATALOG NUMBER: GALN-SA5C-740-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3097.7 | 10.2 | | | |
| FM | (30°-60°) | 11188.2 | 36.9 | | | |
| FH | (60°-80°) | 10124.2 | 33.4 | | | G4/12000 |
| FVH | (80°-90°) | 808.4 | 2.7 | | | G5 |
| BL | (0°-30°) | 1279.5 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2376.5 | 7.8 | B2/2500 | | |
| BH | (60°-80°) | 1380.2 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 93.3 | 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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 |
| 2.5° | 10222.9 | 10236.5 | 10324.1 | 10579.0 | 10754.2 | 10818.4 | 10863.2 | 10779.5 | 10697.8 | 10499.2 | 10199.5 |
| 5° | 10191.8 | 10271.6 | 10499.2 | 11071.4 | 11522.9 | 11717.5 | 11775.9 | 11524.8 | 11110.3 | 10600.4 | 9987.4 |
| 7.5° | 9596.3 | 9703.3 | 10053.6 | 11013.0 | 11809.0 | 12264.4 | 12204.0 | 11750.6 | 11003.3 | 10094.5 | 9238.2 |
| 10° | 8889.8 | 9008.5 | 9430.8 | 10590.7 | 11616.3 | 12243.0 | 12243.0 | 11690.3 | 10697.8 | 9617.7 | 8631.0 |
| 12.5° | 8329.3 | 8453.9 | 8936.5 | 10156.7 | 11215.4 | 11809.0 | 11908.2 | 11433.4 | 10477.8 | 9316.0 | 8232.0 |
| 15° | 8144.5 | 8265.1 | 8784.7 | 9894.0 | 10791.2 | 11153.1 | 11186.2 | 11030.5 | 10370.8 | 9337.4 | 8214.5 |
| 17.5° | 8374.1 | 8529.8 | 9055.2 | 9971.9 | 10401.9 | 10423.3 | 10448.6 | 10571.3 | 10382.5 | 9728.6 | 8568.7 |
| 20° | 9037.7 | 9205.1 | 9753.9 | 10222.9 | 10061.4 | 9839.5 | 9853.1 | 10168.4 | 10520.7 | 10374.7 | 9415.3 |
| 22.5° | 9995.2 | 10141.2 | 10703.6 | 10664.7 | 9917.4 | 9460.0 | 9364.7 | 9804.5 | 10725.0 | 11180.4 | 10316.3 |
| 25° | 11028.6 | 11199.8 | 11846.0 | 11320.5 | 9958.2 | 9234.3 | 9173.9 | 9590.4 | 10937.1 | 11933.5 | 11357.5 |
| 27.5° | 12211.8 | 12379.2 | 12889.1 | 11982.2 | 10172.3 | 9216.8 | 9144.8 | 9571.0 | 11127.8 | 12630.2 | 12351.9 |
| 30° | 13091.5 | 13245.2 | 13591.6 | 12538.8 | 10435.0 | 9333.5 | 9244.0 | 9724.7 | 11291.3 | 13107.0 | 13321.1 |
| 32.5° | 13782.3 | 13941.9 | 14130.7 | 12885.2 | 10781.4 | 9545.7 | 9380.2 | 10004.9 | 11505.4 | 13471.0 | 14039.2 |
| 35° | 14502.4 | 14691.2 | 14677.5 | 13192.7 | 11104.5 | 9790.9 | 9629.3 | 10409.7 | 11842.1 | 13788.2 | 14950.0 |
| 37.5° | 15415.1 | 15491.0 | 15393.7 | 13469.0 | 11491.8 | 10232.6 | 10143.1 | 11011.1 | 12320.8 | 14171.6 | 16014.5 |
| 40° | 16341.5 | 16493.3 | 15993.1 | 13803.7 | 11962.7 | 11063.6 | 11053.9 | 11900.4 | 12889.1 | 14621.1 | 17046.0 |
| 42.5° | 17135.5 | 17263.9 | 16553.6 | 14095.7 | 12532.9 | 12077.5 | 12151.5 | 13093.4 | 13634.4 | 15142.7 | 17875.0 |
| 45° | 17732.9 | 17847.7 | 17071.3 | 14377.8 | 13284.1 | 13249.1 | 13685.0 | 14372.0 | 14574.4 | 15611.7 | 18361.5 |
| 47.5° | 18240.9 | 18351.8 | 17431.3 | 14806.0 | 14212.4 | 14648.3 | 15407.3 | 15705.1 | 15378.1 | 15880.2 | 18906.4 |
| 50° | 18669.0 | 18702.1 | 17678.4 | 15315.9 | 15364.5 | 16362.9 | 17098.5 | 17291.2 | 16172.1 | 16265.6 | 19379.3 |
| 52.5° | 19114.7 | 19071.8 | 18104.6 | 15958.1 | 16610.0 | 17989.8 | 18525.0 | 18725.4 | 16933.1 | 16740.4 | 20068.3 |
| 55° | 20113.0 | 20153.9 | 19060.2 | 16767.7 | 17869.2 | 19587.6 | 20292.1 | 20099.4 | 17775.7 | 17614.2 | 20944.0 |
| 57.5° | 21319.6 | 21284.6 | 20404.9 | 18034.6 | 19151.6 | 21074.4 | 21599.8 | 21290.4 | 18900.6 | 18815.0 | 21831.4 |
| 60° | 21788.6 | 21835.3 | 21529.8 | 19396.8 | 20416.6 | 22376.3 | 22913.5 | 22432.8 | 20249.2 | 20210.3 | 22500.9 |
| 62.5° | 21317.7 | 21580.4 | 21786.7 | 20609.3 | 21494.8 | 23333.8 | 23867.1 | 23318.3 | 21656.3 | 21938.5 | 22969.9 |
| 65° | 20379.6 | 20436.1 | 21138.6 | 21636.8 | 22014.4 | 23491.5 | 23769.8 | 23477.8 | 22831.7 | 23512.9 | 22948.5 |
| 67.5° | 19161.4 | 19210.0 | 20033.2 | 21973.5 | 21344.9 | 21701.0 | 21895.7 | 21810.0 | 22467.8 | 24051.9 | 21891.8 |
| 70° | 18001.5 | 17962.6 | 18832.5 | 21115.3 | 18581.4 | 18040.4 | 18201.9 | 17933.4 | 19387.1 | 22734.4 | 19819.2 |
| 72.5° | 15744.0 | 15884.1 | 16818.3 | 18729.3 | 14712.6 | 13832.9 | 14185.2 | 13490.4 | 14911.1 | 19470.8 | 16086.5 |
| 75° | 12332.5 | 12365.6 | 13924.4 | 15718.7 | 11098.6 | 9711.1 | 10187.9 | 9897.9 | 11421.7 | 16242.2 | 11108.4 |
| 77.5° | 8539.5 | 8465.6 | 10141.2 | 12005.5 | 7914.8 | 7109.1 | 7116.9 | 6978.7 | 7975.1 | 11958.8 | 7547.0 |
| 80° | 5423.8 | 5310.9 | 6348.2 | 7416.6 | 5439.4 | 5818.9 | 5628.1 | 5622.3 | 5192.2 | 7377.7 | 4563.6 |
| 82.5° | 2930.8 | 3055.4 | 4010.9 | 4649.2 | 3901.9 | 4497.5 | 4121.9 | 4001.2 | 3563.3 | 4618.1 | 2919.2 |
| 85° | 1335.0 | 1451.8 | 2138.8 | 3162.4 | 2963.9 | 2997.0 | 2002.5 | 2362.6 | 2948.4 | 3750.1 | 1558.8 |
| 87.5° | 130.4 | 167.4 | 441.8 | 1492.7 | 1012.0 | 797.9 | 297.8 | 574.1 | 741.5 | 1333.1 | 124.6 |
| 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-SA5C-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 |
| 2.5° | 10076.9 | 9975.7 | 9631.3 | 9347.2 | 9045.5 | 8815.9 | 8516.2 | 8315.7 | 8177.5 | 7969.3 | 7944.0 |
| 5° | 9613.8 | 9366.6 | 8767.2 | 8156.1 | 7628.7 | 7231.7 | 6828.9 | 6459.1 | 6241.2 | 6173.1 | 6085.5 |
| 7.5° | 8833.4 | 8416.9 | 7646.3 | 6945.7 | 6340.4 | 5748.8 | 5293.4 | 4970.4 | 4754.3 | 4627.8 | 4476.0 |
| 10° | 8191.2 | 7708.5 | 6770.5 | 5912.3 | 5414.1 | 5046.3 | 4645.4 | 4299.0 | 4032.3 | 3804.6 | 3680.1 |
| 12.5° | 7759.1 | 7214.2 | 6159.4 | 5462.7 | 5077.4 | 4686.2 | 4217.2 | 3828.0 | 3434.9 | 3176.0 | 3065.1 |
| 15° | 7628.7 | 7052.7 | 5970.7 | 5238.9 | 4686.2 | 4174.4 | 3649.0 | 3141.0 | 2751.8 | 2506.6 | 2424.8 |
| 17.5° | 7947.9 | 7251.2 | 5968.7 | 4941.2 | 4226.9 | 3615.9 | 2942.5 | 2465.7 | 2066.8 | 1883.8 | 1825.4 |
| 20° | 8543.4 | 7632.6 | 5986.2 | 4647.3 | 3728.7 | 2868.6 | 2140.7 | 1749.6 | 1558.8 | 1481.0 | 1451.8 |
| 22.5° | 9374.4 | 8214.5 | 6038.8 | 4357.3 | 3183.8 | 2203.0 | 1603.6 | 1405.1 | 1337.0 | 1323.4 | 1317.5 |
| 25° | 10398.0 | 8934.6 | 6215.9 | 4096.6 | 2724.5 | 1681.4 | 1340.9 | 1251.3 | 1212.4 | 1198.8 | 1196.9 |
| 27.5° | 11340.0 | 9864.8 | 6429.9 | 3872.8 | 2280.8 | 1449.8 | 1212.4 | 1136.5 | 1097.6 | 1095.7 | 1099.6 |
| 30° | 12190.4 | 10643.3 | 6609.0 | 3621.7 | 1944.2 | 1288.3 | 1128.7 | 1052.8 | 1015.9 | 1013.9 | 1025.6 |
| 32.5° | 12926.0 | 11283.5 | 6741.3 | 3374.5 | 1757.3 | 1189.1 | 1052.8 | 971.1 | 940.0 | 934.1 | 940.0 |
| 35° | 13712.3 | 11921.9 | 6681.0 | 3181.9 | 1650.3 | 1107.3 | 996.4 | 916.6 | 879.6 | 862.1 | 862.1 |
| 37.5° | 14609.4 | 12579.6 | 6577.8 | 3022.3 | 1601.6 | 1039.2 | 947.8 | 869.9 | 832.9 | 815.4 | 813.5 |
| 40° | 15588.3 | 13237.4 | 6435.8 | 2880.2 | 1553.0 | 998.4 | 914.7 | 832.9 | 788.2 | 770.7 | 766.8 |
| 42.5° | 16452.4 | 13799.8 | 6319.0 | 2786.8 | 1473.2 | 1006.1 | 885.5 | 805.7 | 749.3 | 725.9 | 724.0 |
| 45° | 17203.6 | 14366.2 | 6297.6 | 2732.3 | 1407.0 | 994.5 | 877.7 | 784.3 | 718.1 | 692.8 | 688.9 |
| 47.5° | 17791.3 | 14955.8 | 6420.2 | 2701.2 | 1335.0 | 932.2 | 928.3 | 770.7 | 690.9 | 663.6 | 659.7 |
| 50° | 18507.5 | 15792.7 | 6700.4 | 2637.0 | 1268.9 | 873.8 | 980.8 | 768.7 | 669.5 | 634.4 | 624.7 |
| 52.5° | 19461.1 | 16882.5 | 7079.9 | 2522.2 | 1173.5 | 819.3 | 936.1 | 768.7 | 644.2 | 609.1 | 597.5 |
| 55° | 20903.1 | 18272.0 | 7451.6 | 2360.6 | 1039.2 | 747.3 | 844.6 | 745.4 | 607.2 | 576.0 | 568.3 |
| 57.5° | 21858.7 | 19287.9 | 7689.1 | 2136.8 | 871.9 | 694.8 | 727.8 | 708.4 | 570.2 | 537.1 | 537.1 |
| 60° | 21907.3 | 19560.3 | 7576.2 | 1854.6 | 766.8 | 646.1 | 632.5 | 714.2 | 537.1 | 502.1 | 498.2 |
| 62.5° | 21346.8 | 18892.8 | 6988.5 | 1601.6 | 710.3 | 593.6 | 572.2 | 626.6 | 504.0 | 469.0 | 463.2 |
| 65° | 20471.1 | 17190.0 | 5968.7 | 1481.0 | 679.2 | 546.9 | 515.7 | 513.8 | 469.0 | 435.9 | 428.1 |
| 67.5° | 18861.7 | 15022.0 | 4904.2 | 1410.9 | 663.6 | 494.3 | 465.1 | 455.4 | 428.1 | 400.9 | 397.0 |
| 70° | 16489.4 | 12581.6 | 3933.1 | 1381.7 | 655.8 | 439.8 | 416.5 | 404.8 | 381.4 | 360.0 | 358.1 |
| 72.5° | 12828.7 | 10205.4 | 3246.1 | 1362.3 | 651.9 | 389.2 | 363.9 | 348.4 | 334.7 | 315.3 | 315.3 |
| 75° | 9214.8 | 7508.1 | 2477.4 | 1228.0 | 603.3 | 334.7 | 307.5 | 297.8 | 278.3 | 262.7 | 266.6 |
| 77.5° | 5809.1 | 5056.0 | 1630.8 | 903.0 | 467.1 | 268.6 | 245.2 | 239.4 | 223.8 | 202.4 | 216.0 |
| 80° | 3923.4 | 3555.5 | 951.6 | 568.3 | 293.9 | 196.6 | 188.8 | 186.8 | 169.3 | 146.0 | 147.9 |
| 82.5° | 2670.1 | 2619.5 | 494.3 | 323.1 | 169.3 | 114.8 | 110.9 | 114.8 | 95.4 | 77.8 | 77.8 |
| 85° | 1043.1 | 1424.6 | 233.5 | 126.5 | 54.5 | 17.5 | 25.3 | 27.2 | 15.6 | 7.8 | 9.7 |
| 87.5° | 19.5 | 146.0 | 5.8 | 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 |
| 2.5° | 7905.1 | 7887.6 | 7916.8 | 7792.2 | 7817.5 | 7864.2 | 7887.6 | 7901.2 | 8093.9 | 8049.1 | 8171.7 |
| 5° | 6167.2 | 6149.7 | 6262.6 | 6278.1 | 6336.5 | 6324.8 | 6381.3 | 6394.9 | 6465.0 | 6490.3 | 6661.5 |
| 7.5° | 4485.8 | 4561.7 | 4690.1 | 4756.3 | 4855.5 | 4886.7 | 4857.5 | 4929.5 | 4783.5 | 4888.6 | 4919.8 |
| 10° | 3604.2 | 3512.7 | 3458.2 | 3610.0 | 3629.5 | 3773.5 | 3715.1 | 3668.4 | 3754.0 | 3757.9 | 3839.7 |
| 12.5° | 3000.9 | 2804.3 | 2674.0 | 2716.8 | 2763.5 | 2825.7 | 2835.5 | 2928.9 | 2991.2 | 3049.5 | 3098.2 |
| 15° | 2352.8 | 2284.7 | 2166.0 | 2107.6 | 2173.8 | 2199.1 | 2259.4 | 2337.3 | 2403.4 | 2421.0 | 2487.1 |
| 17.5° | 1806.0 | 1817.7 | 1798.2 | 1763.2 | 1804.0 | 1823.5 | 1827.4 | 1829.3 | 1846.9 | 1835.2 | 1932.5 |
| 20° | 1453.7 | 1494.6 | 1543.3 | 1551.0 | 1564.7 | 1574.4 | 1556.9 | 1490.7 | 1492.7 | 1533.5 | 1564.7 |
| 22.5° | 1315.6 | 1323.4 | 1377.8 | 1395.4 | 1438.2 | 1420.7 | 1370.1 | 1338.9 | 1335.0 | 1344.8 | 1360.3 |
| 25° | 1206.6 | 1218.3 | 1257.2 | 1284.4 | 1317.5 | 1286.4 | 1249.4 | 1220.2 | 1216.3 | 1226.0 | 1241.6 |
| 27.5° | 1109.3 | 1126.8 | 1161.8 | 1189.1 | 1220.2 | 1191.0 | 1156.0 | 1130.7 | 1128.7 | 1126.8 | 1136.5 |
| 30° | 1031.4 | 1050.9 | 1076.2 | 1107.3 | 1128.7 | 1103.4 | 1070.4 | 1056.7 | 1054.8 | 1050.9 | 1054.8 |
| 32.5° | 953.6 | 984.7 | 1010.0 | 1025.6 | 1047.0 | 1027.5 | 1002.2 | 994.5 | 980.8 | 969.2 | 963.3 |
| 35° | 866.0 | 899.1 | 938.0 | 957.5 | 978.9 | 959.4 | 941.9 | 908.8 | 885.5 | 883.5 | 887.4 |
| 37.5° | 815.4 | 829.0 | 860.2 | 893.3 | 914.7 | 904.9 | 871.9 | 838.8 | 832.9 | 832.9 | 836.8 |
| 40° | 770.7 | 776.5 | 790.1 | 832.9 | 871.9 | 842.7 | 801.8 | 792.1 | 792.1 | 790.1 | 792.1 |
| 42.5° | 725.9 | 731.7 | 731.7 | 764.8 | 827.1 | 780.4 | 749.3 | 749.3 | 749.3 | 751.2 | 757.0 |
| 45° | 685.0 | 687.0 | 685.0 | 708.4 | 766.8 | 727.8 | 706.4 | 712.3 | 716.2 | 720.1 | 724.0 |
| 47.5° | 650.0 | 651.9 | 650.0 | 669.5 | 698.7 | 683.1 | 671.4 | 679.2 | 687.0 | 692.8 | 696.7 |
| 50° | 618.9 | 616.9 | 620.8 | 632.5 | 646.1 | 650.0 | 642.2 | 653.9 | 657.8 | 665.6 | 675.3 |
| 52.5° | 591.6 | 589.7 | 593.6 | 599.4 | 618.9 | 618.9 | 618.9 | 628.6 | 636.4 | 644.2 | 657.8 |
| 55° | 560.5 | 562.4 | 568.3 | 576.0 | 601.3 | 597.5 | 599.4 | 607.2 | 615.0 | 626.6 | 634.4 |
| 57.5° | 531.3 | 535.2 | 543.0 | 554.6 | 579.9 | 578.0 | 579.9 | 583.8 | 593.6 | 599.4 | 607.2 |
| 60° | 498.2 | 506.0 | 515.7 | 523.5 | 548.8 | 546.9 | 556.6 | 564.4 | 570.2 | 570.2 | 574.1 |
| 62.5° | 465.1 | 476.8 | 486.5 | 492.4 | 519.6 | 521.6 | 535.2 | 541.0 | 544.9 | 541.0 | 546.9 |
| 65° | 432.0 | 449.6 | 453.4 | 461.2 | 488.5 | 490.4 | 506.0 | 519.6 | 515.7 | 511.8 | 521.6 |
| 67.5° | 399.0 | 420.4 | 418.4 | 428.1 | 455.4 | 459.3 | 472.9 | 496.3 | 488.5 | 484.6 | 492.4 |
| 70° | 362.0 | 377.5 | 379.5 | 385.3 | 422.3 | 416.5 | 437.9 | 459.3 | 453.4 | 455.4 | 455.4 |
| 72.5° | 321.1 | 334.7 | 334.7 | 346.4 | 385.3 | 375.6 | 393.1 | 416.5 | 416.5 | 414.5 | 414.5 |
| 75° | 272.5 | 280.2 | 288.0 | 305.5 | 346.4 | 334.7 | 346.4 | 367.8 | 371.7 | 367.8 | 367.8 |
| 77.5° | 219.9 | 231.6 | 235.5 | 258.8 | 288.0 | 286.1 | 297.8 | 307.5 | 315.3 | 311.4 | 311.4 |
| 80° | 155.7 | 167.4 | 182.9 | 208.2 | 225.7 | 231.6 | 237.4 | 245.2 | 249.1 | 249.1 | 253.0 |
| 82.5° | 87.6 | 105.1 | 118.7 | 144.0 | 151.8 | 181.0 | 179.0 | 184.9 | 179.0 | 157.6 | 175.1 |
| 85° | 19.5 | 37.0 | 52.5 | 66.2 | 75.9 | 105.1 | 110.9 | 124.6 | 103.1 | 95.4 | 95.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.6 | 31.1 | 42.8 | 37.0 | 31.1 | 31.1 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 | 9481.4 |
| 2.5° | 8274.8 | 8444.2 | 8648.5 | 9000.7 | 9247.9 | 9514.5 | 9783.1 | 10069.2 | 10145.1 | 10222.9 |
| 5° | 6708.2 | 7041.0 | 7222.0 | 7694.9 | 8191.2 | 8821.7 | 9337.4 | 9901.8 | 10137.3 | 10191.8 |
| 7.5° | 5081.3 | 5307.0 | 5781.9 | 6260.6 | 6875.6 | 7537.3 | 8327.4 | 9207.0 | 9481.4 | 9596.3 |
| 10° | 4028.4 | 4335.9 | 4752.4 | 5266.2 | 5805.2 | 6517.5 | 7408.8 | 8436.4 | 8825.6 | 8889.8 |
| 12.5° | 3429.0 | 3771.6 | 4225.0 | 4768.0 | 5277.8 | 5815.0 | 6714.1 | 7774.7 | 8191.2 | 8329.3 |
| 15° | 2742.1 | 3156.6 | 3680.1 | 4252.2 | 4806.9 | 5394.6 | 6305.4 | 7502.2 | 7982.9 | 8144.5 |
| 17.5° | 2154.3 | 2489.1 | 3055.4 | 3676.2 | 4334.0 | 5077.4 | 6219.8 | 7632.6 | 8224.2 | 8374.1 |
| 20° | 1648.4 | 1887.7 | 2364.5 | 3020.4 | 3791.0 | 4764.1 | 6241.2 | 8125.0 | 8833.4 | 9037.7 |
| 22.5° | 1424.6 | 1547.2 | 1837.1 | 2461.8 | 3324.0 | 4491.6 | 6328.7 | 8800.3 | 9654.6 | 9995.2 |
| 25° | 1290.3 | 1354.5 | 1518.0 | 1926.6 | 2878.3 | 4226.9 | 6529.2 | 9709.1 | 10802.8 | 11028.6 |
| 27.5° | 1175.4 | 1222.2 | 1323.4 | 1617.2 | 2473.5 | 3981.7 | 6762.7 | 10717.2 | 11875.1 | 12211.8 |
| 30° | 1066.5 | 1128.7 | 1224.1 | 1436.2 | 2214.7 | 3757.9 | 7056.6 | 11534.6 | 12778.1 | 13091.5 |
| 32.5° | 982.8 | 1045.1 | 1132.6 | 1309.7 | 1994.8 | 3522.5 | 7231.7 | 12252.7 | 13515.7 | 13782.3 |
| 35° | 914.7 | 967.2 | 1058.7 | 1208.5 | 1827.4 | 3343.4 | 7196.7 | 12822.9 | 14229.9 | 14502.4 |
| 37.5° | 866.0 | 910.8 | 1002.2 | 1113.2 | 1700.9 | 3156.6 | 7179.2 | 13576.0 | 15099.8 | 15415.1 |
| 40° | 821.3 | 868.0 | 951.6 | 1050.9 | 1574.4 | 2936.7 | 7188.9 | 14323.3 | 16026.2 | 16341.5 |
| 42.5° | 786.2 | 838.8 | 906.9 | 1033.4 | 1444.0 | 2759.6 | 7188.9 | 14973.3 | 16831.9 | 17135.5 |
| 45° | 757.0 | 813.5 | 879.6 | 1031.4 | 1340.9 | 2625.3 | 7140.3 | 15531.9 | 17474.1 | 17732.9 |
| 47.5° | 731.7 | 794.0 | 889.4 | 996.4 | 1315.6 | 2528.0 | 7097.5 | 15979.5 | 17997.6 | 18240.9 |
| 50° | 714.2 | 788.2 | 945.8 | 955.5 | 1323.4 | 2498.8 | 7303.7 | 16543.9 | 18458.8 | 18669.0 |
| 52.5° | 700.6 | 790.1 | 943.9 | 895.2 | 1309.7 | 2518.3 | 7733.8 | 17425.4 | 19099.1 | 19114.7 |
| 55° | 673.4 | 788.2 | 895.2 | 827.1 | 1253.3 | 2551.3 | 8286.5 | 18706.0 | 20101.3 | 20113.0 |
| 57.5° | 646.1 | 766.8 | 831.0 | 768.7 | 1138.5 | 2551.3 | 8952.1 | 19918.4 | 21309.9 | 21319.6 |
| 60° | 618.9 | 797.9 | 729.8 | 718.1 | 988.6 | 2504.6 | 9654.6 | 20451.6 | 21689.4 | 21788.6 |
| 62.5° | 591.6 | 803.7 | 651.9 | 673.4 | 879.6 | 2391.8 | 10178.1 | 19862.0 | 21175.6 | 21317.7 |
| 65° | 560.5 | 648.1 | 601.3 | 626.6 | 823.2 | 2203.0 | 10012.7 | 18781.9 | 20210.3 | 20379.6 |
| 67.5° | 523.5 | 548.8 | 546.9 | 578.0 | 803.7 | 1924.7 | 9140.9 | 17415.7 | 19171.1 | 19161.4 |
| 70° | 478.7 | 492.4 | 498.2 | 531.3 | 766.8 | 1708.7 | 7617.1 | 15642.8 | 17783.5 | 18001.5 |
| 72.5° | 432.0 | 443.7 | 449.6 | 478.7 | 729.8 | 1586.1 | 5912.3 | 13200.4 | 15403.4 | 15744.0 |
| 75° | 381.4 | 389.2 | 397.0 | 422.3 | 690.9 | 1405.1 | 4211.4 | 10076.9 | 11797.3 | 12332.5 |
| 77.5° | 328.9 | 328.9 | 338.6 | 363.9 | 581.9 | 1159.9 | 2825.7 | 7068.3 | 7992.7 | 8539.5 |
| 80° | 266.6 | 268.6 | 264.7 | 291.9 | 428.1 | 794.0 | 1605.5 | 4721.3 | 5318.7 | 5423.8 |
| 82.5° | 204.3 | 198.5 | 200.4 | 214.1 | 319.2 | 541.0 | 856.3 | 2932.8 | 2989.2 | 2930.8 |
| 85° | 128.4 | 128.4 | 124.6 | 140.1 | 204.3 | 282.2 | 467.1 | 1796.3 | 1403.1 | 1335.0 |
| 87.5° | 52.5 | 42.8 | 48.7 | 56.4 | 97.3 | 114.8 | 182.9 | 369.8 | 142.1 | 130.4 |
| 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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