

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: P453683

Luminaire Tested: **GALN-SA4D-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453683
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-SA4D-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 22061 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

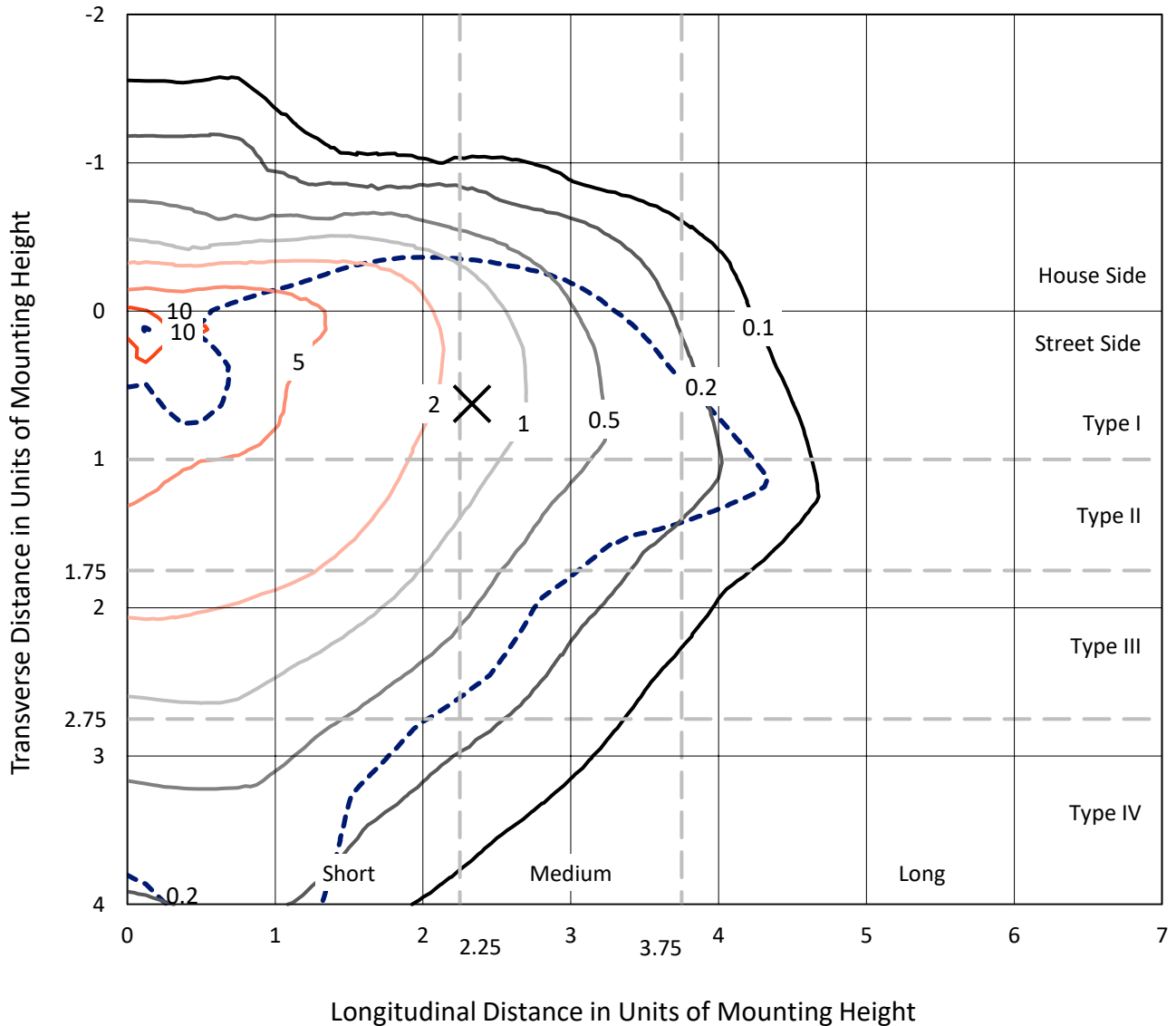
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

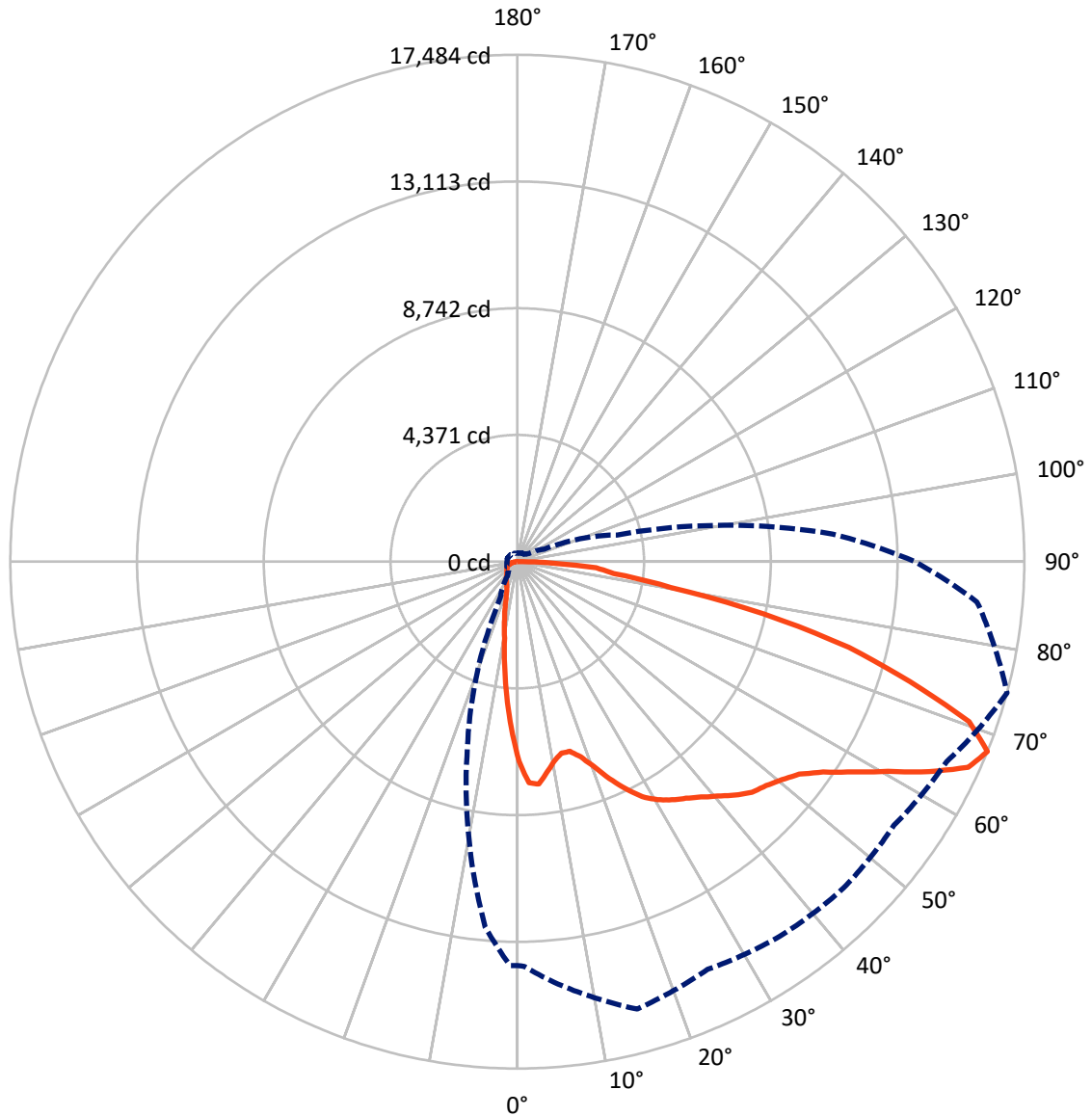
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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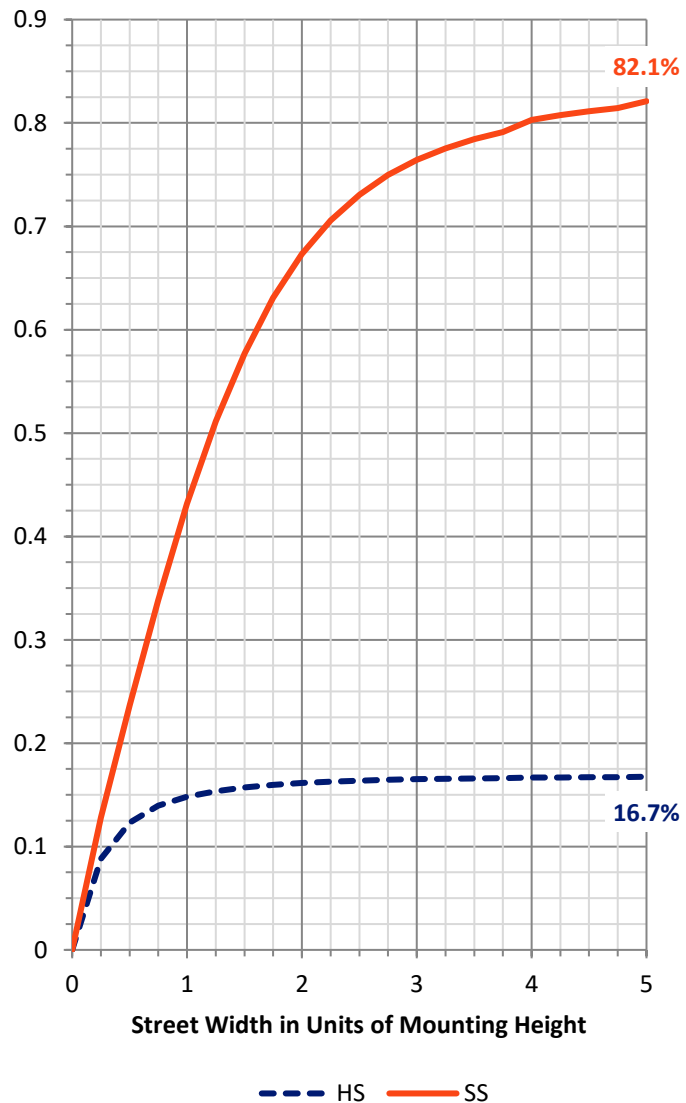
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3728.8 | 0.0 | 3728.8 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 18332.2 | 0.0 | 18332.2 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 22061.0 | 0.0 | 22061.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 522.8 | 2.4 |
| 10°-20° | 1090.2 | 4.9 |
| 20°-30° | 1568.9 | 7.1 |
| 30°-40° | 2259.6 | 10.2 |
| 40°-50° | 3174.2 | 14.4 |
| 50°-60° | 4426.8 | 20.1 |
| 60°-70° | 5263.2 | 23.9 |
| 70°-80° | 3099.8 | 14.1 |
| 80°-90° | 655.5 | 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° | 22061.0 | 100.0 |
| 0°-180° | 22061.0 | 100.0 |



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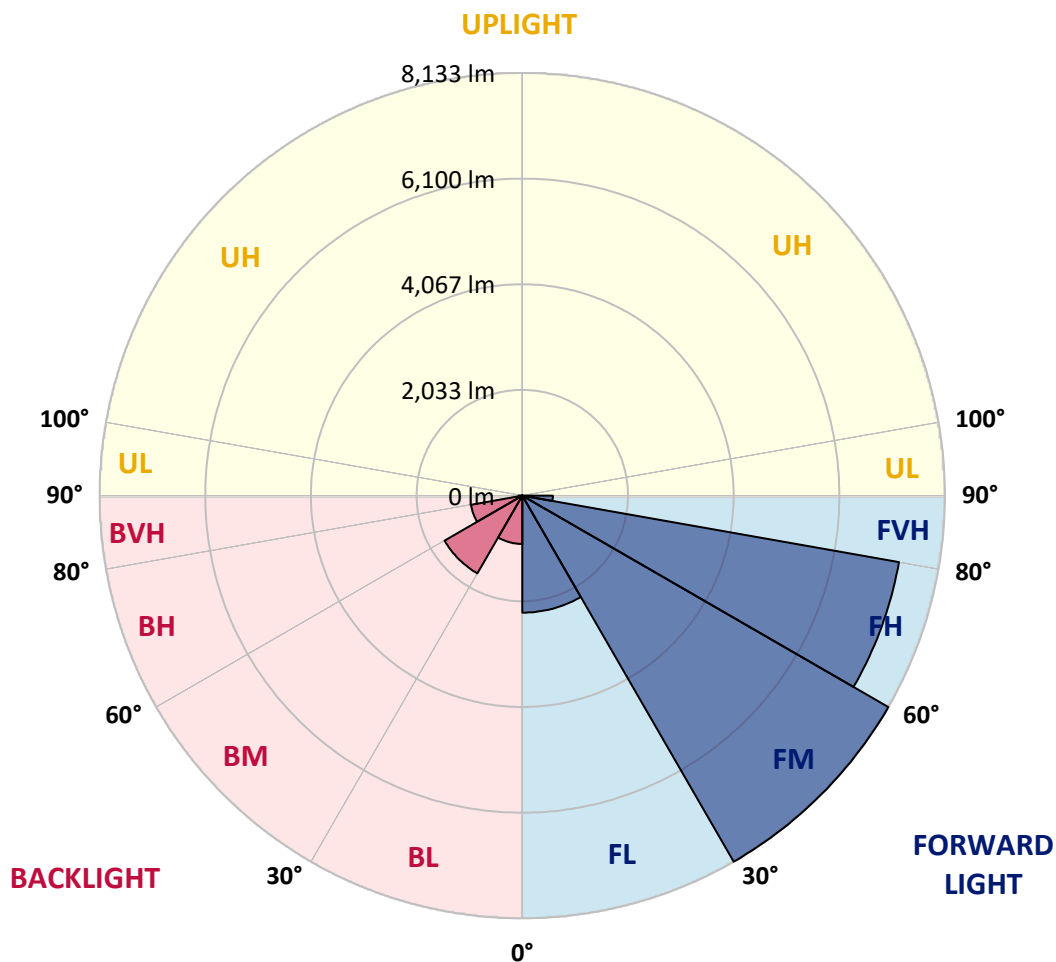
CATALOG NUMBER: GALN-SA4D-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2251.8 | 10.2 | | | |
| FM | (30°-60°) | 8133.1 | 36.9 | | | |
| FH | (60°-80°) | 7359.6 | 33.4 | | | G3/7500 |
| FVH | (80°-90°) | 587.7 | 2.7 | | | G4/750 |
| BL | (0°-30°) | 930.1 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1727.6 | 7.8 | B2/2500 | | |
| BH | (60°-80°) | 1003.3 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 67.8 | 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-G4

Type III Medium





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CATALOG NUMBER: GALN-SA4D-727-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 |
| 2.5° | 7431.4 | 7441.3 | 7504.9 | 7690.3 | 7817.6 | 7864.3 | 7896.8 | 7836.0 | 7776.6 | 7632.3 | 7414.4 |
| 5° | 7408.7 | 7466.7 | 7632.3 | 8048.2 | 8376.4 | 8517.9 | 8560.3 | 8377.8 | 8076.5 | 7705.8 | 7260.2 |
| 7.5° | 6975.8 | 7053.7 | 7308.3 | 8005.7 | 8584.3 | 8915.4 | 8871.5 | 8541.9 | 7998.7 | 7338.0 | 6715.5 |
| 10° | 6462.3 | 6548.6 | 6855.6 | 7698.8 | 8444.3 | 8899.8 | 8899.8 | 8498.1 | 7776.6 | 6991.4 | 6274.2 |
| 12.5° | 6054.9 | 6145.4 | 6496.3 | 7383.3 | 8152.9 | 8584.3 | 8656.5 | 8311.3 | 7616.7 | 6772.1 | 5984.1 |
| 15° | 5920.5 | 6008.2 | 6385.9 | 7192.3 | 7844.5 | 8107.6 | 8131.6 | 8018.5 | 7538.9 | 6787.7 | 5971.4 |
| 17.5° | 6087.4 | 6200.6 | 6582.6 | 7248.9 | 7561.5 | 7577.1 | 7595.5 | 7684.6 | 7547.4 | 7072.0 | 6228.9 |
| 20° | 6569.8 | 6691.5 | 7090.4 | 7431.4 | 7314.0 | 7152.7 | 7162.6 | 7391.8 | 7647.8 | 7541.7 | 6844.3 |
| 22.5° | 7265.9 | 7372.0 | 7780.8 | 7752.5 | 7209.3 | 6876.8 | 6807.5 | 7127.2 | 7796.4 | 8127.4 | 7499.3 |
| 25° | 8017.1 | 8141.6 | 8611.2 | 8229.3 | 7239.0 | 6712.7 | 6668.9 | 6971.6 | 7950.6 | 8674.9 | 8256.1 |
| 27.5° | 8877.2 | 8998.9 | 9369.5 | 8710.3 | 7394.6 | 6700.0 | 6647.6 | 6957.5 | 8089.2 | 9181.3 | 8979.0 |
| 30° | 9516.6 | 9628.4 | 9880.2 | 9114.9 | 7585.6 | 6784.9 | 6719.8 | 7069.2 | 8208.0 | 9527.9 | 9683.6 |
| 32.5° | 10018.8 | 10134.9 | 10272.1 | 9366.7 | 7837.4 | 6939.1 | 6818.8 | 7272.9 | 8363.7 | 9792.5 | 10205.6 |
| 35° | 10542.3 | 10679.5 | 10669.6 | 9590.2 | 8072.2 | 7117.3 | 6999.9 | 7567.2 | 8608.4 | 10023.1 | 10867.7 |
| 37.5° | 11205.8 | 11260.9 | 11190.2 | 9791.1 | 8353.8 | 7438.4 | 7373.4 | 8004.3 | 8956.4 | 10301.8 | 11641.5 |
| 40° | 11879.2 | 11989.5 | 11625.9 | 10034.4 | 8696.1 | 8042.5 | 8035.4 | 8650.8 | 9369.5 | 10628.6 | 12391.3 |
| 42.5° | 12456.4 | 12549.7 | 12033.4 | 10246.6 | 9110.6 | 8779.6 | 8833.3 | 9518.0 | 9911.3 | 11007.7 | 12993.9 |
| 45° | 12890.7 | 12974.1 | 12409.7 | 10451.7 | 9656.7 | 9631.2 | 9948.1 | 10447.5 | 10594.6 | 11348.7 | 13347.6 |
| 47.5° | 13259.9 | 13340.5 | 12671.4 | 10763.0 | 10331.5 | 10648.4 | 11200.1 | 11416.6 | 11178.9 | 11543.9 | 13743.7 |
| 50° | 13571.1 | 13595.2 | 12851.1 | 11133.6 | 11169.0 | 11894.7 | 12429.5 | 12569.5 | 11756.1 | 11824.0 | 14087.5 |
| 52.5° | 13895.1 | 13864.0 | 13160.9 | 11600.5 | 12074.4 | 13077.4 | 13466.5 | 13612.2 | 12309.2 | 12169.2 | 14588.3 |
| 55° | 14620.8 | 14650.5 | 13855.5 | 12189.0 | 12989.7 | 14238.9 | 14751.0 | 14610.9 | 12921.8 | 12804.4 | 15224.9 |
| 57.5° | 15497.9 | 15472.5 | 14833.0 | 13109.9 | 13922.0 | 15319.7 | 15701.7 | 15476.7 | 13739.5 | 13677.2 | 15870.0 |
| 60° | 15838.9 | 15872.8 | 15650.7 | 14100.2 | 14841.5 | 16266.1 | 16656.6 | 16307.2 | 14719.9 | 14691.6 | 16356.7 |
| 62.5° | 15496.5 | 15687.5 | 15837.5 | 14981.6 | 15625.3 | 16962.2 | 17349.8 | 16950.8 | 15742.7 | 15947.8 | 16697.6 |
| 65° | 14814.7 | 14855.7 | 15366.4 | 15728.5 | 16003.0 | 17076.7 | 17279.0 | 17066.8 | 16597.2 | 17092.3 | 16682.0 |
| 67.5° | 13929.1 | 13964.4 | 14562.8 | 15973.3 | 15516.3 | 15775.2 | 15916.7 | 15854.5 | 16332.6 | 17484.2 | 15913.9 |
| 70° | 13085.9 | 13057.6 | 13690.0 | 15349.4 | 13507.5 | 13114.2 | 13231.6 | 13036.4 | 14093.2 | 16526.4 | 14407.2 |
| 72.5° | 11444.9 | 11546.7 | 12225.8 | 13615.0 | 10695.1 | 10055.6 | 10311.7 | 9806.6 | 10839.4 | 14154.0 | 11693.8 |
| 75° | 8964.9 | 8989.0 | 10122.1 | 11426.5 | 8068.0 | 7059.3 | 7405.9 | 7195.1 | 8302.8 | 11807.0 | 8075.1 |
| 77.5° | 6207.7 | 6153.9 | 7372.0 | 8727.2 | 5753.6 | 5167.9 | 5173.5 | 5073.1 | 5797.4 | 8693.3 | 5486.2 |
| 80° | 3942.7 | 3860.7 | 4614.7 | 5391.4 | 3954.1 | 4229.9 | 4091.3 | 4087.0 | 3774.4 | 5363.1 | 3317.5 |
| 82.5° | 2130.5 | 2221.1 | 2915.7 | 3379.7 | 2836.5 | 3269.4 | 2996.3 | 2908.6 | 2590.3 | 3357.1 | 2122.0 |
| 85° | 970.5 | 1055.4 | 1554.7 | 2298.9 | 2154.6 | 2178.6 | 1455.7 | 1717.4 | 2143.3 | 2726.1 | 1133.2 |
| 87.5° | 94.8 | 121.7 | 321.1 | 1085.1 | 735.6 | 580.0 | 216.4 | 417.3 | 539.0 | 969.1 | 90.5 |
| 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-SA4D-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 |
| 2.5° | 7325.3 | 7251.7 | 7001.3 | 6794.8 | 6575.5 | 6408.6 | 6190.7 | 6045.0 | 5944.5 | 5793.2 | 5774.8 |
| 5° | 6988.6 | 6808.9 | 6373.2 | 5929.0 | 5545.6 | 5257.0 | 4964.2 | 4695.4 | 4536.9 | 4487.4 | 4423.7 |
| 7.5° | 6421.3 | 6118.5 | 5558.3 | 5049.0 | 4609.1 | 4179.0 | 3848.0 | 3613.1 | 3456.1 | 3364.1 | 3253.8 |
| 10° | 5954.4 | 5603.6 | 4921.7 | 4297.8 | 3935.7 | 3668.3 | 3376.9 | 3125.1 | 2931.2 | 2765.7 | 2675.2 |
| 12.5° | 5640.4 | 5244.3 | 4477.5 | 3971.0 | 3690.9 | 3406.6 | 3065.6 | 2782.7 | 2496.9 | 2308.8 | 2228.1 |
| 15° | 5545.6 | 5126.8 | 4340.3 | 3808.4 | 3406.6 | 3034.5 | 2652.5 | 2283.3 | 2000.4 | 1822.1 | 1762.7 |
| 17.5° | 5777.6 | 5271.1 | 4338.9 | 3591.9 | 3072.7 | 2628.5 | 2139.0 | 1792.4 | 1502.4 | 1369.4 | 1327.0 |
| 20° | 6210.5 | 5548.4 | 4351.6 | 3378.3 | 2710.5 | 2085.3 | 1556.2 | 1271.8 | 1133.2 | 1076.6 | 1055.4 |
| 22.5° | 6814.6 | 5971.4 | 4389.8 | 3167.5 | 2314.4 | 1601.4 | 1165.7 | 1021.4 | 971.9 | 962.0 | 957.7 |
| 25° | 7558.7 | 6494.9 | 4518.5 | 2977.9 | 1980.6 | 1222.3 | 974.7 | 909.6 | 881.4 | 871.5 | 870.0 |
| 27.5° | 8243.4 | 7171.1 | 4674.1 | 2815.2 | 1658.0 | 1053.9 | 881.4 | 826.2 | 797.9 | 796.5 | 799.3 |
| 30° | 8861.6 | 7736.9 | 4804.3 | 2632.7 | 1413.3 | 936.5 | 820.5 | 765.3 | 738.5 | 737.1 | 745.5 |
| 32.5° | 9396.4 | 8202.4 | 4900.5 | 2453.1 | 1277.5 | 864.4 | 765.3 | 705.9 | 683.3 | 679.1 | 683.3 |
| 35° | 9967.9 | 8666.4 | 4856.6 | 2313.0 | 1199.7 | 805.0 | 724.3 | 666.3 | 639.4 | 626.7 | 626.7 |
| 37.5° | 10620.1 | 9144.6 | 4781.7 | 2197.0 | 1164.3 | 755.4 | 689.0 | 632.4 | 605.5 | 592.8 | 591.3 |
| 40° | 11331.7 | 9622.7 | 4678.4 | 2093.7 | 1128.9 | 725.7 | 664.9 | 605.5 | 573.0 | 560.2 | 557.4 |
| 42.5° | 11959.8 | 10031.6 | 4593.5 | 2025.8 | 1070.9 | 731.4 | 643.7 | 585.7 | 544.7 | 527.7 | 526.3 |
| 45° | 12505.9 | 10443.3 | 4577.9 | 1986.2 | 1022.8 | 722.9 | 638.0 | 570.1 | 522.0 | 503.6 | 500.8 |
| 47.5° | 12933.1 | 10871.9 | 4667.1 | 1963.6 | 970.5 | 677.6 | 674.8 | 560.2 | 502.2 | 482.4 | 479.6 |
| 50° | 13453.7 | 11480.2 | 4870.8 | 1916.9 | 922.4 | 635.2 | 713.0 | 558.8 | 486.7 | 461.2 | 454.1 |
| 52.5° | 14146.9 | 12272.5 | 5146.6 | 1833.4 | 853.1 | 595.6 | 680.5 | 558.8 | 468.3 | 442.8 | 434.3 |
| 55° | 15195.2 | 13282.5 | 5416.9 | 1716.0 | 755.4 | 543.2 | 614.0 | 541.8 | 441.4 | 418.7 | 413.1 |
| 57.5° | 15889.8 | 14021.0 | 5589.4 | 1553.3 | 633.8 | 505.0 | 529.1 | 514.9 | 414.5 | 390.5 | 390.5 |
| 60° | 15925.2 | 14219.1 | 5507.4 | 1348.2 | 557.4 | 469.7 | 459.8 | 519.2 | 390.5 | 365.0 | 362.2 |
| 62.5° | 15517.8 | 13733.8 | 5080.2 | 1164.3 | 516.4 | 431.5 | 415.9 | 455.5 | 366.4 | 340.9 | 336.7 |
| 65° | 14881.1 | 12496.0 | 4338.9 | 1076.6 | 493.7 | 397.5 | 374.9 | 373.5 | 340.9 | 316.9 | 311.2 |
| 67.5° | 13711.2 | 10920.0 | 3565.0 | 1025.7 | 482.4 | 359.3 | 338.1 | 331.0 | 311.2 | 291.4 | 288.6 |
| 70° | 11986.7 | 9146.0 | 2859.1 | 1004.4 | 476.8 | 319.7 | 302.7 | 294.3 | 277.3 | 261.7 | 260.3 |
| 72.5° | 9325.6 | 7418.6 | 2359.7 | 990.3 | 473.9 | 282.9 | 264.5 | 253.2 | 243.3 | 229.2 | 229.2 |
| 75° | 6698.6 | 5457.9 | 1800.9 | 892.7 | 438.6 | 243.3 | 223.5 | 216.4 | 202.3 | 191.0 | 193.8 |
| 77.5° | 4222.9 | 3675.4 | 1185.5 | 656.4 | 339.5 | 195.2 | 178.3 | 174.0 | 162.7 | 147.1 | 157.0 |
| 80° | 2852.0 | 2584.6 | 691.8 | 413.1 | 213.6 | 142.9 | 137.2 | 135.8 | 123.1 | 106.1 | 107.5 |
| 82.5° | 1941.0 | 1904.2 | 359.3 | 234.8 | 123.1 | 83.5 | 80.6 | 83.5 | 69.3 | 56.6 | 56.6 |
| 85° | 758.3 | 1035.6 | 169.8 | 92.0 | 39.6 | 12.7 | 18.4 | 19.8 | 11.3 | 5.7 | 7.1 |
| 87.5° | 14.1 | 106.1 | 4.2 | 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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 CATALOG NUMBER: GALN-SA4D-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 |
| 2.5° | 5746.5 | 5733.7 | 5755.0 | 5664.4 | 5682.8 | 5716.8 | 5733.7 | 5743.6 | 5883.7 | 5851.2 | 5940.3 |
| 5° | 4483.2 | 4470.4 | 4552.5 | 4563.8 | 4606.2 | 4597.7 | 4638.8 | 4648.7 | 4699.6 | 4718.0 | 4842.5 |
| 7.5° | 3260.9 | 3316.0 | 3409.4 | 3457.5 | 3529.7 | 3552.3 | 3531.1 | 3583.4 | 3477.3 | 3553.7 | 3576.3 |
| 10° | 2620.0 | 2553.5 | 2513.9 | 2624.3 | 2638.4 | 2743.1 | 2700.6 | 2666.7 | 2728.9 | 2731.8 | 2791.2 |
| 12.5° | 2181.5 | 2038.6 | 1943.8 | 1974.9 | 2008.9 | 2054.1 | 2061.2 | 2129.1 | 2174.4 | 2216.8 | 2252.2 |
| 15° | 1710.4 | 1660.8 | 1574.6 | 1532.1 | 1580.2 | 1598.6 | 1642.5 | 1699.0 | 1747.1 | 1759.9 | 1808.0 |
| 17.5° | 1312.8 | 1321.3 | 1307.2 | 1281.7 | 1311.4 | 1325.6 | 1328.4 | 1329.8 | 1342.5 | 1334.1 | 1404.8 |
| 20° | 1056.8 | 1086.5 | 1121.9 | 1127.5 | 1137.4 | 1144.5 | 1131.8 | 1083.7 | 1085.1 | 1114.8 | 1137.4 |
| 22.5° | 956.3 | 962.0 | 1001.6 | 1014.3 | 1045.5 | 1032.7 | 995.9 | 973.3 | 970.5 | 977.6 | 988.9 |
| 25° | 877.1 | 885.6 | 913.9 | 933.7 | 957.7 | 935.1 | 908.2 | 887.0 | 884.2 | 891.3 | 902.6 |
| 27.5° | 806.4 | 819.1 | 844.6 | 864.4 | 887.0 | 865.8 | 840.3 | 821.9 | 820.5 | 819.1 | 826.2 |
| 30° | 749.8 | 763.9 | 782.3 | 805.0 | 820.5 | 802.1 | 778.1 | 768.2 | 766.8 | 763.9 | 766.8 |
| 32.5° | 693.2 | 715.8 | 734.2 | 745.5 | 761.1 | 747.0 | 728.6 | 722.9 | 713.0 | 704.5 | 700.3 |
| 35° | 629.5 | 653.6 | 681.9 | 696.0 | 711.6 | 697.4 | 684.7 | 660.7 | 643.7 | 642.3 | 645.1 |
| 37.5° | 592.8 | 602.7 | 625.3 | 649.3 | 664.9 | 657.8 | 633.8 | 609.7 | 605.5 | 605.5 | 608.3 |
| 40° | 560.2 | 564.5 | 574.4 | 605.5 | 633.8 | 612.6 | 582.9 | 575.8 | 575.8 | 574.4 | 575.8 |
| 42.5° | 527.7 | 531.9 | 531.9 | 556.0 | 601.2 | 567.3 | 544.7 | 544.7 | 544.7 | 546.1 | 550.3 |
| 45° | 498.0 | 499.4 | 498.0 | 514.9 | 557.4 | 529.1 | 513.5 | 517.8 | 520.6 | 523.4 | 526.3 |
| 47.5° | 472.5 | 473.9 | 472.5 | 486.7 | 507.9 | 496.6 | 488.1 | 493.7 | 499.4 | 503.6 | 506.5 |
| 50° | 449.9 | 448.5 | 451.3 | 459.8 | 469.7 | 472.5 | 466.8 | 475.3 | 478.2 | 483.8 | 490.9 |
| 52.5° | 430.1 | 428.7 | 431.5 | 435.7 | 449.9 | 449.9 | 449.9 | 456.9 | 462.6 | 468.3 | 478.2 |
| 55° | 407.4 | 408.8 | 413.1 | 418.7 | 437.1 | 434.3 | 435.7 | 441.4 | 447.0 | 455.5 | 461.2 |
| 57.5° | 386.2 | 389.0 | 394.7 | 403.2 | 421.6 | 420.2 | 421.6 | 424.4 | 431.5 | 435.7 | 441.4 |
| 60° | 362.2 | 367.8 | 374.9 | 380.6 | 398.9 | 397.5 | 404.6 | 410.3 | 414.5 | 414.5 | 417.3 |
| 62.5° | 338.1 | 346.6 | 353.7 | 357.9 | 377.7 | 379.1 | 389.0 | 393.3 | 396.1 | 393.3 | 397.5 |
| 65° | 314.1 | 326.8 | 329.6 | 335.3 | 355.1 | 356.5 | 367.8 | 377.7 | 374.9 | 372.1 | 379.1 |
| 67.5° | 290.0 | 305.6 | 304.2 | 311.2 | 331.0 | 333.9 | 343.8 | 360.7 | 355.1 | 352.3 | 357.9 |
| 70° | 263.1 | 274.5 | 275.9 | 280.1 | 307.0 | 302.7 | 318.3 | 333.9 | 329.6 | 331.0 | 331.0 |
| 72.5° | 233.4 | 243.3 | 243.3 | 251.8 | 280.1 | 273.0 | 285.8 | 302.7 | 302.7 | 301.3 | 301.3 |
| 75° | 198.1 | 203.7 | 209.4 | 222.1 | 251.8 | 243.3 | 251.8 | 267.4 | 270.2 | 267.4 | 267.4 |
| 77.5° | 159.9 | 168.3 | 171.2 | 188.2 | 209.4 | 208.0 | 216.4 | 223.5 | 229.2 | 226.4 | 226.4 |
| 80° | 113.2 | 121.7 | 133.0 | 151.4 | 164.1 | 168.3 | 172.6 | 178.3 | 181.1 | 181.1 | 183.9 |
| 82.5° | 63.7 | 76.4 | 86.3 | 104.7 | 110.3 | 131.6 | 130.2 | 134.4 | 130.2 | 114.6 | 127.3 |
| 85° | 14.1 | 26.9 | 38.2 | 48.1 | 55.2 | 76.4 | 80.6 | 90.5 | 75.0 | 69.3 | 69.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.3 | 22.6 | 31.1 | 26.9 | 22.6 | 22.6 |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 | 6892.4 |
| 2.5° | 6015.3 | 6138.3 | 6286.9 | 6542.9 | 6722.6 | 6916.4 | 7111.7 | 7319.6 | 7374.8 | 7431.4 |
| 5° | 4876.4 | 5118.4 | 5249.9 | 5593.7 | 5954.4 | 6412.8 | 6787.7 | 7198.0 | 7369.1 | 7408.7 |
| 7.5° | 3693.8 | 3857.9 | 4203.0 | 4551.1 | 4998.1 | 5479.1 | 6053.5 | 6692.9 | 6892.4 | 6975.8 |
| 10° | 2928.4 | 3151.9 | 3454.7 | 3828.2 | 4220.0 | 4737.8 | 5385.7 | 6132.7 | 6415.6 | 6462.3 |
| 12.5° | 2492.7 | 2741.7 | 3071.3 | 3466.0 | 3836.6 | 4227.1 | 4880.7 | 5651.7 | 5954.4 | 6054.9 |
| 15° | 1993.3 | 2294.6 | 2675.2 | 3091.1 | 3494.3 | 3921.5 | 4583.6 | 5453.6 | 5803.1 | 5920.5 |
| 17.5° | 1566.1 | 1809.4 | 2221.1 | 2672.4 | 3150.5 | 3690.9 | 4521.4 | 5548.4 | 5978.5 | 6087.4 |
| 20° | 1198.2 | 1372.3 | 1718.9 | 2195.6 | 2755.8 | 3463.2 | 4536.9 | 5906.3 | 6421.3 | 6569.8 |
| 22.5° | 1035.6 | 1124.7 | 1335.5 | 1789.6 | 2416.3 | 3265.1 | 4600.6 | 6397.2 | 7018.3 | 7265.9 |
| 25° | 937.9 | 984.6 | 1103.5 | 1400.5 | 2092.3 | 3072.7 | 4746.3 | 7057.9 | 7853.0 | 8017.1 |
| 27.5° | 854.5 | 888.4 | 962.0 | 1175.6 | 1798.1 | 2894.5 | 4916.1 | 7790.7 | 8632.4 | 8877.2 |
| 30° | 775.3 | 820.5 | 889.8 | 1044.0 | 1609.9 | 2731.8 | 5129.7 | 8384.9 | 9288.9 | 9516.6 |
| 32.5° | 714.4 | 759.7 | 823.4 | 952.1 | 1450.1 | 2560.6 | 5257.0 | 8906.9 | 9825.0 | 10018.8 |
| 35° | 664.9 | 703.1 | 769.6 | 878.5 | 1328.4 | 2430.4 | 5231.5 | 9321.4 | 10344.2 | 10542.3 |
| 37.5° | 629.5 | 662.1 | 728.6 | 809.2 | 1236.4 | 2294.6 | 5218.8 | 9868.9 | 10976.6 | 11205.8 |
| 40° | 597.0 | 631.0 | 691.8 | 763.9 | 1144.5 | 2134.8 | 5225.9 | 10412.1 | 11650.0 | 11879.2 |
| 42.5° | 571.5 | 609.7 | 659.2 | 751.2 | 1049.7 | 2006.0 | 5225.9 | 10884.6 | 12235.7 | 12456.4 |
| 45° | 550.3 | 591.3 | 639.4 | 749.8 | 974.7 | 1908.4 | 5190.5 | 11290.7 | 12702.5 | 12890.7 |
| 47.5° | 531.9 | 577.2 | 646.5 | 724.3 | 956.3 | 1837.7 | 5159.4 | 11616.0 | 13083.1 | 13259.9 |
| 50° | 519.2 | 573.0 | 687.5 | 694.6 | 962.0 | 1816.5 | 5309.3 | 12026.3 | 13418.4 | 13571.1 |
| 52.5° | 509.3 | 574.4 | 686.1 | 650.8 | 952.1 | 1830.6 | 5622.0 | 12667.2 | 13883.8 | 13895.1 |
| 55° | 489.5 | 573.0 | 650.8 | 601.2 | 911.1 | 1854.7 | 6023.8 | 13598.0 | 14612.4 | 14620.8 |
| 57.5° | 469.7 | 557.4 | 604.1 | 558.8 | 827.6 | 1854.7 | 6507.6 | 14479.4 | 15490.9 | 15497.9 |
| 60° | 449.9 | 580.0 | 530.5 | 522.0 | 718.7 | 1820.7 | 7018.3 | 14867.0 | 15766.7 | 15838.9 |
| 62.5° | 430.1 | 584.3 | 473.9 | 489.5 | 639.4 | 1738.7 | 7398.8 | 14438.3 | 15393.3 | 15496.5 |
| 65° | 407.4 | 471.1 | 437.1 | 455.5 | 598.4 | 1601.4 | 7278.6 | 13653.2 | 14691.6 | 14814.7 |
| 67.5° | 380.6 | 398.9 | 397.5 | 420.2 | 584.3 | 1399.1 | 6644.8 | 12660.1 | 13936.1 | 13929.1 |
| 70° | 348.0 | 357.9 | 362.2 | 386.2 | 557.4 | 1242.1 | 5537.1 | 11371.3 | 12927.5 | 13085.9 |
| 72.5° | 314.1 | 322.5 | 326.8 | 348.0 | 530.5 | 1153.0 | 4297.8 | 9595.9 | 11197.3 | 11444.9 |
| 75° | 277.3 | 282.9 | 288.6 | 307.0 | 502.2 | 1021.4 | 3061.4 | 7325.3 | 8575.9 | 8964.9 |
| 77.5° | 239.1 | 239.1 | 246.2 | 264.5 | 423.0 | 843.2 | 2054.1 | 5138.2 | 5810.1 | 6207.7 |
| 80° | 193.8 | 195.2 | 192.4 | 212.2 | 311.2 | 577.2 | 1167.1 | 3432.0 | 3866.4 | 3942.7 |
| 82.5° | 148.5 | 144.3 | 145.7 | 155.6 | 232.0 | 393.3 | 622.5 | 2131.9 | 2173.0 | 2130.5 |
| 85° | 93.4 | 93.4 | 90.5 | 101.9 | 148.5 | 205.1 | 339.5 | 1305.8 | 1020.0 | 970.5 |
| 87.5° | 38.2 | 31.1 | 35.4 | 41.0 | 70.7 | 83.5 | 133.0 | 268.8 | 103.3 | 94.8 |
| 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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