

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: P527422

Luminaire Tested: **GALN-SA2C-722-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-722-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9378 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

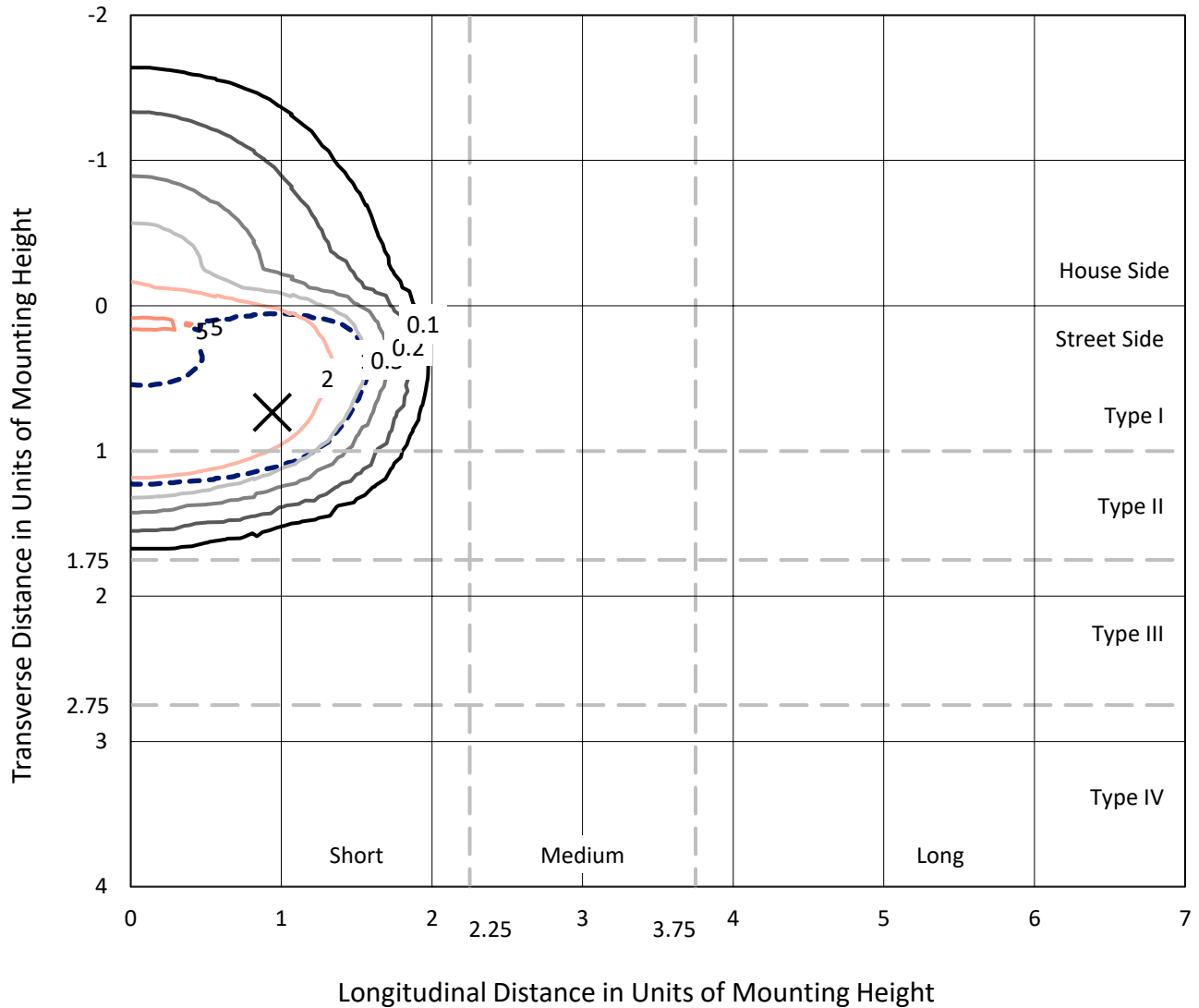
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

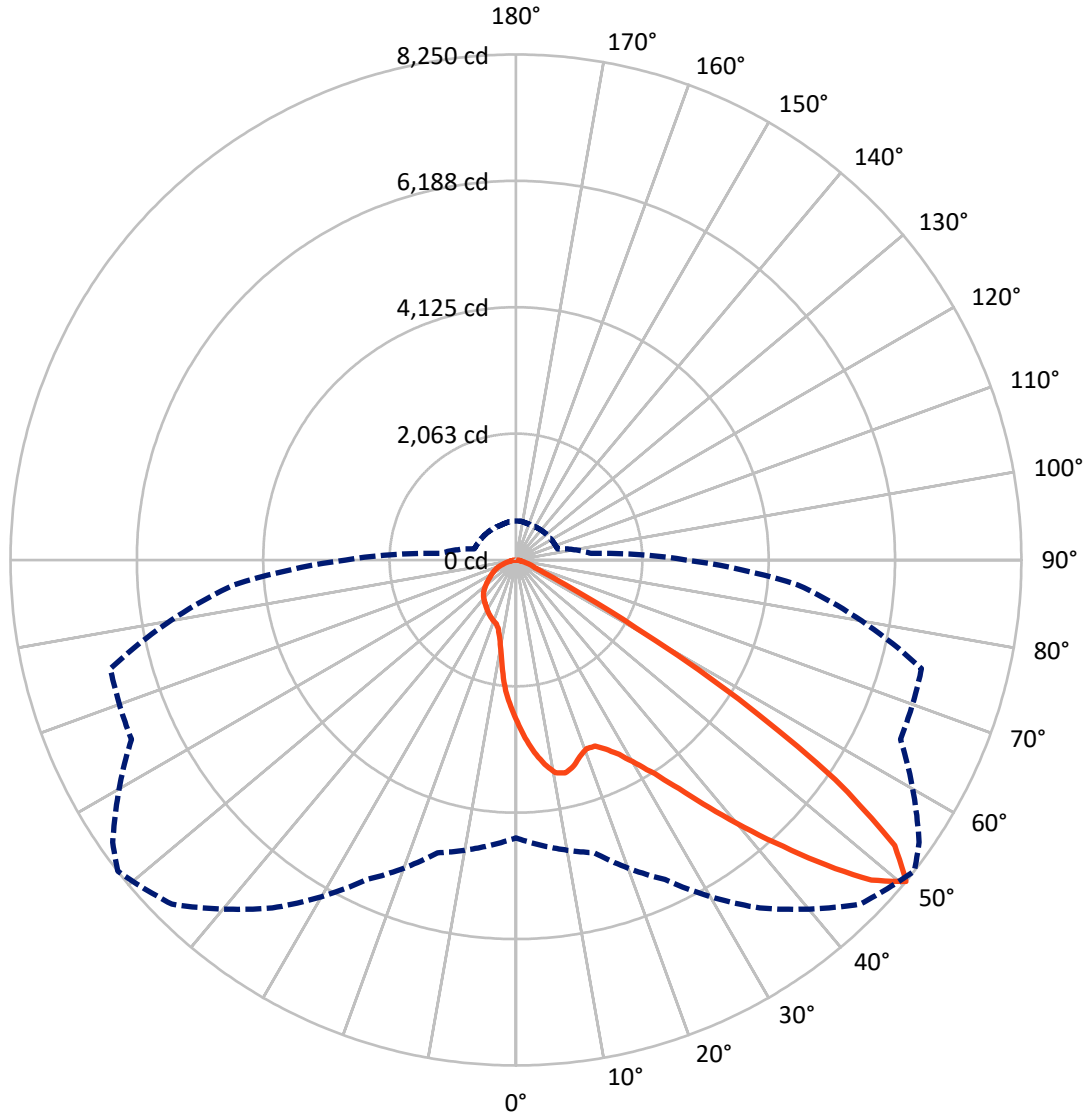
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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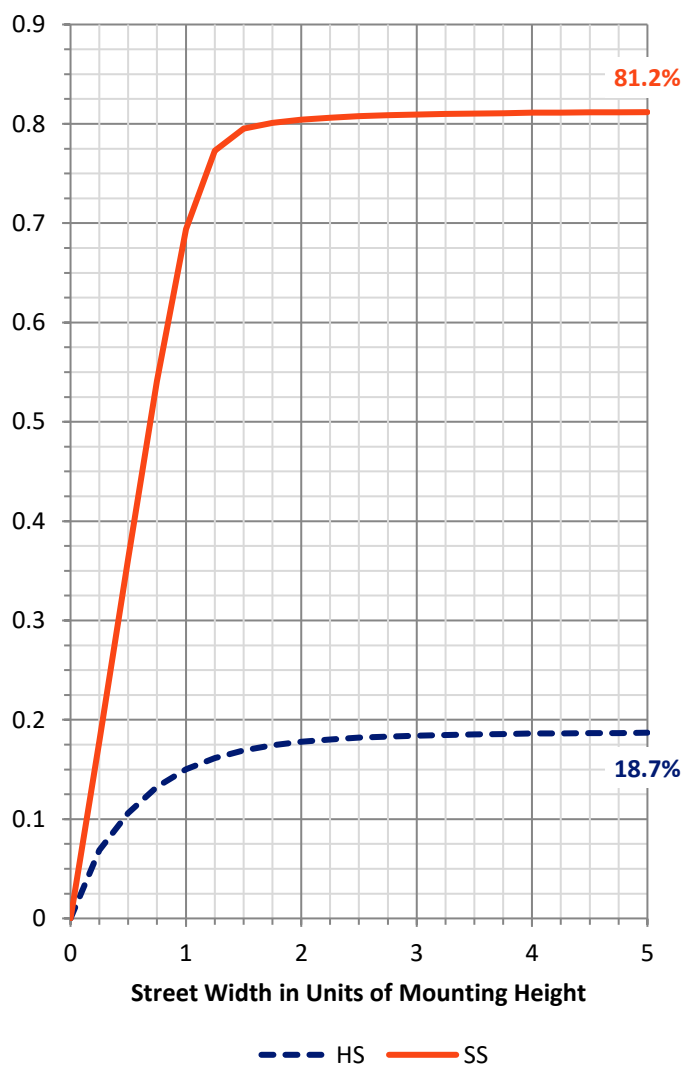
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1762.8 | 0.0 | 1762.8 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 7615.2 | 0.0 | 7615.2 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 9378.0 | 0.0 | 9378.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 243.7 | 2.6 |
| 10°-20° | 653.0 | 7.0 |
| 20°-30° | 1100.0 | 11.7 |
| 30°-40° | 1845.9 | 19.7 |
| 40°-50° | 2823.8 | 30.1 |
| 50°-60° | 2058.8 | 22.0 |
| 60°-70° | 458.2 | 4.9 |
| 70°-80° | 165.3 | 1.8 |
| 80°-90° | 29.3 | 0.3 |
| 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° | 9378.0 | 100.0 |
| 0°-180° | 9378.0 | 100.0 |

Coefficient of Utilization



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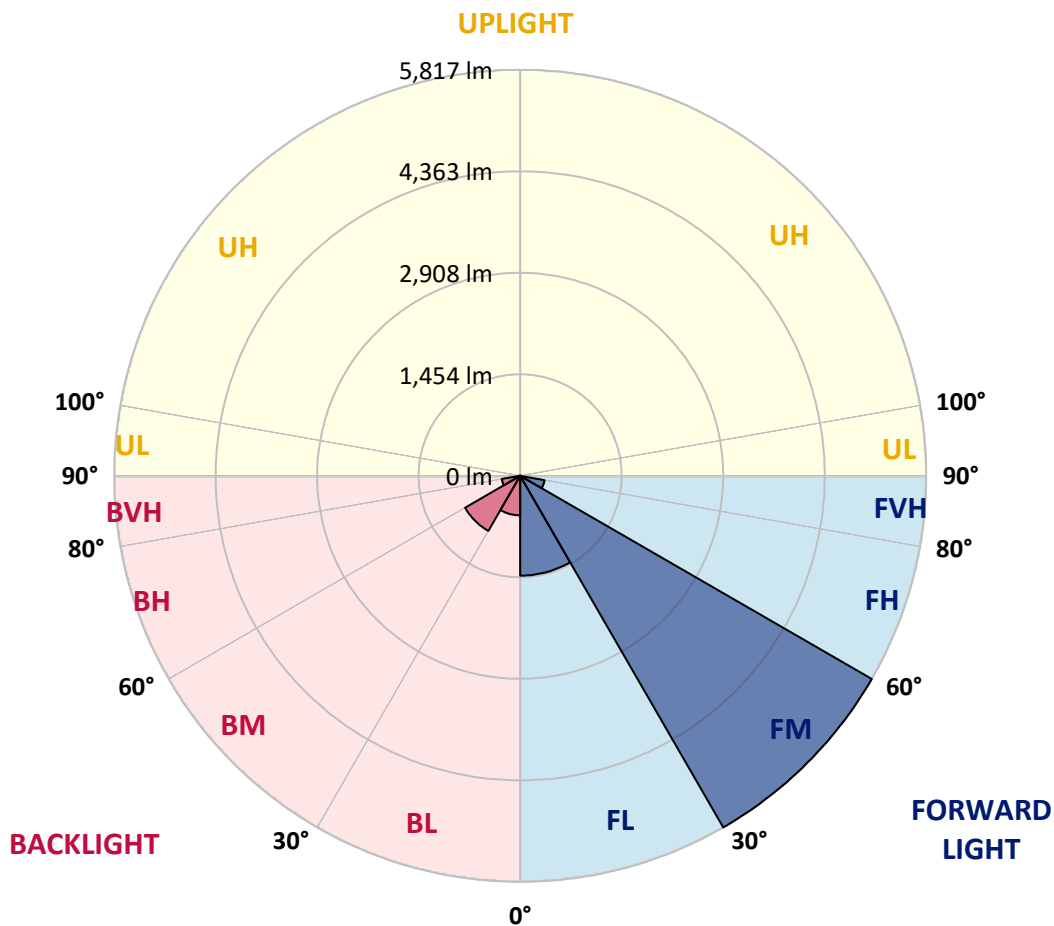
CATALOG NUMBER: GALN-SA2C-722-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1430.5 | 15.3 | | | |
| FM (30°-60°) | 5816.7 | 62.0 | | | |
| FH (60°-80°) | 354.9 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 13.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 566.3 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 911.9 | 9.7 | B1/1000 | | |
| BH (60°-80°) | 268.6 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 |
| 2.5° | 3112.5 | 3052.6 | 3059.4 | 3016.5 | 2970.1 | 2956.6 | 2909.1 | 2863.9 | 2830.0 | 2757.7 | 2691.0 |
| 5° | 3401.9 | 3383.8 | 3356.6 | 3322.7 | 3287.7 | 3201.8 | 3153.2 | 3096.7 | 2972.4 | 2860.5 | 2749.7 |
| 7.5° | 3443.7 | 3440.3 | 3455.0 | 3455.0 | 3467.4 | 3434.6 | 3365.7 | 3326.1 | 3193.9 | 3011.9 | 2806.2 |
| 10° | 3149.8 | 3160.0 | 3231.2 | 3323.9 | 3452.7 | 3542.0 | 3530.7 | 3520.5 | 3375.9 | 3127.2 | 2872.9 |
| 12.5° | 2915.9 | 2893.3 | 2935.1 | 3014.2 | 3207.5 | 3423.3 | 3569.1 | 3570.3 | 3533.0 | 3311.4 | 2921.5 |
| 15° | 2783.6 | 2799.5 | 2810.8 | 2848.1 | 2993.9 | 3243.6 | 3500.2 | 3575.9 | 3739.8 | 3441.4 | 2998.4 |
| 17.5° | 2868.4 | 2815.3 | 2813.0 | 2822.1 | 2896.7 | 3084.3 | 3372.5 | 3502.4 | 3852.8 | 3608.7 | 3093.3 |
| 20° | 2979.2 | 2978.0 | 2946.4 | 2935.1 | 2934.0 | 3101.2 | 3288.8 | 3465.1 | 3912.7 | 3825.7 | 3189.4 |
| 22.5° | 3173.6 | 3173.6 | 3121.6 | 3096.7 | 3043.6 | 3180.3 | 3300.1 | 3419.9 | 4012.2 | 3974.9 | 3235.7 |
| 25° | 3499.1 | 3445.9 | 3356.6 | 3295.6 | 3265.1 | 3313.7 | 3419.9 | 3527.3 | 4099.2 | 4133.1 | 3331.8 |
| 27.5° | 3799.7 | 3716.0 | 3672.0 | 3566.9 | 3526.2 | 3497.9 | 3595.1 | 3703.6 | 4200.9 | 4379.5 | 3383.8 |
| 30° | 4141.0 | 4126.3 | 4047.2 | 3911.6 | 3811.0 | 3759.0 | 3848.3 | 3955.6 | 4387.4 | 4631.5 | 3503.6 |
| 32.5° | 4751.3 | 4617.9 | 4510.6 | 4344.4 | 4180.6 | 4069.8 | 4158.0 | 4229.2 | 4697.0 | 4894.8 | 3634.7 |
| 35° | 5410.2 | 5367.2 | 5181.9 | 4882.4 | 4631.5 | 4532.0 | 4584.0 | 4637.1 | 5057.6 | 5297.2 | 3855.1 |
| 37.5° | 6057.8 | 5999.0 | 5846.4 | 5594.4 | 5289.3 | 5087.0 | 5124.3 | 5186.4 | 5462.2 | 5839.7 | 4124.0 |
| 40° | 6523.4 | 6451.1 | 6374.2 | 6336.9 | 6034.1 | 5757.2 | 5735.7 | 5751.5 | 6009.2 | 6348.2 | 4422.4 |
| 42.5° | 6557.3 | 6646.6 | 6670.4 | 6820.7 | 6749.5 | 6522.3 | 6390.1 | 6393.5 | 6531.3 | 6851.2 | 4724.2 |
| 45° | 6486.1 | 6403.6 | 6578.8 | 6989.1 | 7224.1 | 7330.4 | 7107.7 | 7079.5 | 6854.6 | 7142.8 | 4874.5 |
| 47.5° | 5739.1 | 5761.7 | 6057.8 | 6706.5 | 7385.8 | 7860.4 | 7808.4 | 7714.6 | 7027.5 | 7132.6 | 4850.8 |
| 50° | 4536.6 | 4673.3 | 4947.9 | 5756.0 | 6933.7 | 7944.1 | 8250.4 | 8033.4 | 6924.6 | 6852.3 | 4608.9 |
| 52.5° | 3021.0 | 3077.5 | 3258.3 | 4301.5 | 5575.2 | 7101.0 | 7741.8 | 7791.5 | 6829.7 | 6485.0 | 4302.6 |
| 55° | 1344.9 | 1340.4 | 1594.7 | 2246.8 | 3497.9 | 5403.4 | 6325.6 | 6628.5 | 6464.7 | 6110.9 | 4004.2 |
| 57.5° | 569.6 | 588.8 | 692.8 | 970.8 | 1720.1 | 3260.6 | 4285.7 | 4551.3 | 4971.7 | 5018.0 | 3071.8 |
| 60° | 385.4 | 387.7 | 415.9 | 486.0 | 719.9 | 1531.4 | 2247.9 | 2566.7 | 2867.3 | 2846.9 | 1629.7 |
| 62.5° | 302.9 | 310.8 | 332.3 | 360.5 | 427.2 | 695.1 | 1005.9 | 1183.3 | 1202.5 | 1011.5 | 618.2 |
| 65° | 258.8 | 259.9 | 281.4 | 305.1 | 334.5 | 404.6 | 484.8 | 493.9 | 499.5 | 481.5 | 454.3 |
| 67.5° | 213.6 | 215.9 | 232.8 | 259.9 | 287.1 | 309.7 | 332.3 | 343.6 | 369.6 | 420.4 | 413.6 |
| 70° | 169.5 | 172.9 | 187.6 | 210.2 | 235.1 | 248.6 | 276.9 | 287.1 | 310.8 | 350.4 | 366.2 |
| 72.5° | 128.8 | 130.0 | 142.4 | 158.2 | 180.8 | 194.4 | 218.1 | 229.4 | 245.3 | 279.2 | 293.8 |
| 75° | 92.7 | 96.1 | 105.1 | 113.0 | 116.4 | 125.5 | 148.1 | 160.5 | 183.1 | 197.8 | 198.9 |
| 77.5° | 48.6 | 50.9 | 53.1 | 53.1 | 64.4 | 81.4 | 96.1 | 102.8 | 118.7 | 130.0 | 124.3 |
| 80° | 19.2 | 20.3 | 26.0 | 35.0 | 45.2 | 58.8 | 68.9 | 72.3 | 85.9 | 92.7 | 96.1 |
| 82.5° | 11.3 | 12.4 | 17.0 | 24.9 | 32.8 | 41.8 | 49.7 | 53.1 | 62.2 | 70.1 | 72.3 |
| 85° | 5.7 | 6.8 | 10.2 | 15.8 | 21.5 | 26.0 | 24.9 | 23.7 | 23.7 | 22.6 | 23.7 |
| 87.5° | 2.3 | 2.3 | 3.4 | 3.4 | 3.4 | 4.5 | 5.7 | 5.7 | 5.7 | 6.8 | 6.8 |
| 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-SA2C-722-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 | 2643.5 |
| 2.5° | 2646.9 | 2601.7 | 2559.9 | 2483.0 | 2399.4 | 2375.6 | 2278.5 | 2243.4 | 2218.6 | 2189.2 | 2180.1 |
| 5° | 2660.5 | 2600.6 | 2466.1 | 2311.2 | 2188.0 | 2029.8 | 1925.8 | 1813.9 | 1732.6 | 1712.2 | 1706.6 |
| 7.5° | 2688.7 | 2585.9 | 2354.2 | 2120.2 | 1868.2 | 1653.5 | 1489.6 | 1401.4 | 1323.4 | 1318.9 | 1311.0 |
| 10° | 2720.4 | 2541.8 | 2232.1 | 1864.8 | 1542.7 | 1343.8 | 1245.5 | 1207.0 | 1187.8 | 1183.3 | 1181.0 |
| 12.5° | 2746.3 | 2532.7 | 2095.4 | 1616.2 | 1312.1 | 1192.3 | 1163.0 | 1159.6 | 1167.5 | 1169.7 | 1174.3 |
| 15° | 2757.7 | 2496.6 | 1930.4 | 1393.5 | 1168.6 | 1124.5 | 1137.0 | 1150.5 | 1156.2 | 1170.9 | 1159.6 |
| 17.5° | 2779.1 | 2450.2 | 1726.9 | 1217.2 | 1088.4 | 1096.3 | 1117.8 | 1133.6 | 1142.6 | 1152.8 | 1138.1 |
| 20° | 2790.4 | 2408.4 | 1535.9 | 1112.1 | 1060.1 | 1074.8 | 1104.2 | 1116.6 | 1127.9 | 1132.4 | 1115.5 |
| 22.5° | 2780.3 | 2322.5 | 1367.5 | 1027.3 | 1033.0 | 1052.2 | 1078.2 | 1091.8 | 1085.0 | 1066.9 | 1056.7 |
| 25° | 2753.1 | 2201.6 | 1192.3 | 973.1 | 994.6 | 1028.5 | 1048.8 | 1038.6 | 1026.2 | 1016.0 | 1012.6 |
| 27.5° | 2752.0 | 2053.5 | 1065.8 | 923.4 | 961.8 | 1008.1 | 1001.3 | 992.3 | 998.0 | 990.0 | 981.0 |
| 30° | 2757.7 | 1910.0 | 961.8 | 895.1 | 938.1 | 960.7 | 968.6 | 959.5 | 966.3 | 951.6 | 956.1 |
| 32.5° | 2728.3 | 1769.9 | 894.0 | 862.3 | 909.8 | 908.7 | 934.7 | 941.4 | 925.6 | 895.1 | 899.6 |
| 35° | 2740.7 | 1656.9 | 836.3 | 847.6 | 878.2 | 878.2 | 898.5 | 890.6 | 848.8 | 830.7 | 835.2 |
| 37.5° | 2826.6 | 1546.1 | 808.1 | 827.3 | 847.6 | 856.7 | 849.9 | 816.0 | 805.8 | 805.8 | 808.1 |
| 40° | 2908.0 | 1451.2 | 791.1 | 822.8 | 819.4 | 825.0 | 775.3 | 778.7 | 778.7 | 779.8 | 774.2 |
| 42.5° | 2980.3 | 1386.7 | 777.6 | 795.7 | 801.3 | 771.9 | 741.4 | 738.0 | 745.9 | 744.8 | 740.3 |
| 45° | 3006.3 | 1333.6 | 758.4 | 765.1 | 769.7 | 721.1 | 706.4 | 699.6 | 708.6 | 712.0 | 716.5 |
| 47.5° | 2906.8 | 1289.5 | 736.9 | 723.3 | 714.3 | 682.6 | 663.4 | 651.0 | 662.3 | 681.5 | 686.0 |
| 50° | 2779.1 | 1231.9 | 703.0 | 677.0 | 657.8 | 644.2 | 630.6 | 618.2 | 626.1 | 639.7 | 636.3 |
| 52.5° | 2590.4 | 1141.5 | 660.0 | 632.9 | 600.1 | 603.5 | 591.1 | 584.3 | 588.8 | 588.8 | 585.4 |
| 55° | 2321.4 | 938.1 | 587.7 | 568.5 | 541.4 | 550.4 | 552.7 | 543.6 | 534.6 | 542.5 | 535.7 |
| 57.5° | 1584.5 | 662.3 | 524.4 | 524.4 | 497.3 | 509.7 | 508.6 | 487.1 | 465.6 | 467.9 | 463.4 |
| 60° | 916.6 | 527.8 | 483.7 | 479.2 | 450.9 | 461.1 | 463.4 | 448.7 | 415.9 | 418.2 | 413.6 |
| 62.5° | 521.0 | 450.9 | 422.7 | 415.9 | 410.3 | 419.3 | 419.3 | 400.1 | 371.8 | 374.1 | 369.6 |
| 65° | 443.0 | 418.2 | 377.5 | 376.4 | 374.1 | 376.4 | 367.3 | 347.0 | 322.1 | 311.9 | 313.1 |
| 67.5° | 402.3 | 386.5 | 347.0 | 336.8 | 330.0 | 328.9 | 311.9 | 292.7 | 281.4 | 272.4 | 271.2 |
| 70° | 352.6 | 340.2 | 310.8 | 297.2 | 290.5 | 274.6 | 257.7 | 245.3 | 229.4 | 224.9 | 229.4 |
| 72.5° | 279.2 | 278.0 | 266.7 | 252.0 | 237.3 | 224.9 | 210.2 | 193.3 | 178.6 | 175.2 | 167.3 |
| 75° | 193.3 | 195.5 | 197.8 | 195.5 | 183.1 | 167.3 | 150.3 | 136.8 | 118.7 | 108.5 | 106.2 |
| 77.5° | 126.6 | 130.0 | 133.4 | 128.8 | 120.9 | 106.2 | 94.9 | 78.0 | 64.4 | 56.5 | 55.4 |
| 80° | 92.7 | 97.2 | 99.5 | 96.1 | 87.0 | 75.7 | 63.3 | 49.7 | 39.6 | 32.8 | 32.8 |
| 82.5° | 71.2 | 75.7 | 78.0 | 72.3 | 63.3 | 54.2 | 45.2 | 35.0 | 27.1 | 21.5 | 20.3 |
| 85° | 24.9 | 23.7 | 28.3 | 29.4 | 35.0 | 32.8 | 27.1 | 20.3 | 15.8 | 11.3 | 10.2 |
| 87.5° | 6.8 | 6.8 | 7.9 | 7.9 | 6.8 | 5.7 | 5.7 | 5.7 | 4.5 | 3.4 | 3.4 |
| 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)