

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: P651906

Luminaire Tested: **GALN-SA5A-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16602.2 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 154
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

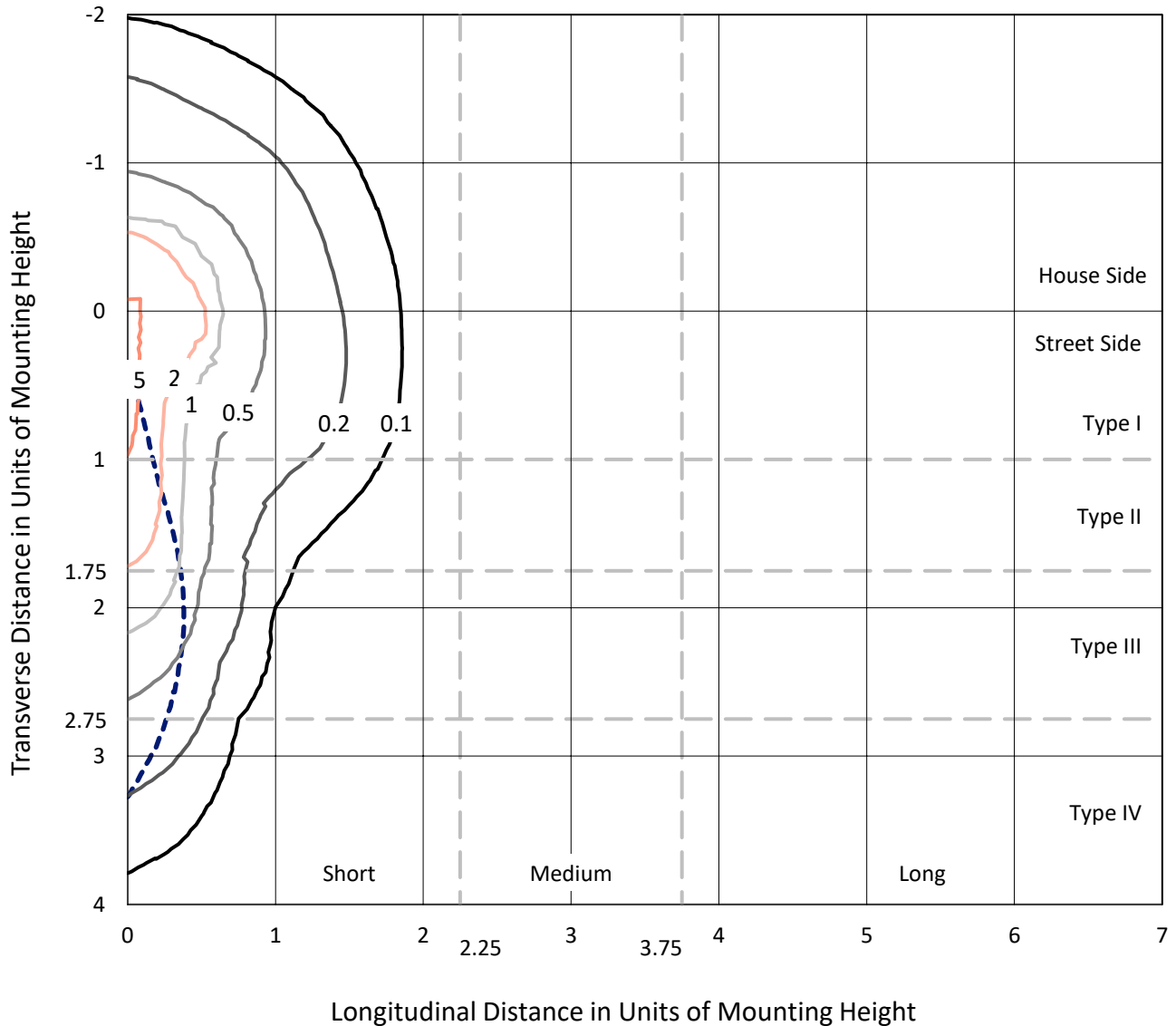




REPORT NUMBER: P651906
 CATALOG NUMBER: GALN-SA5A-840-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

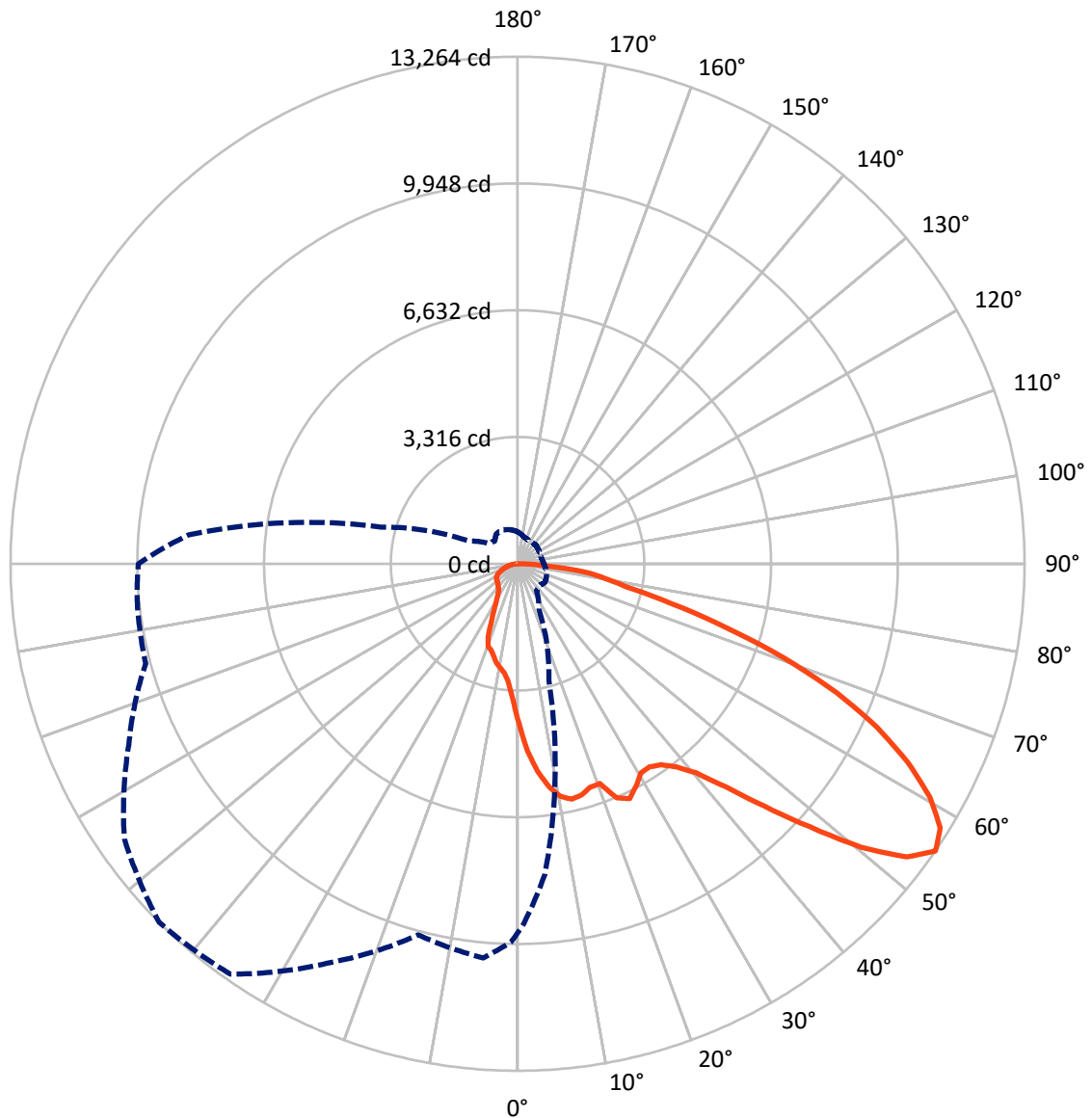
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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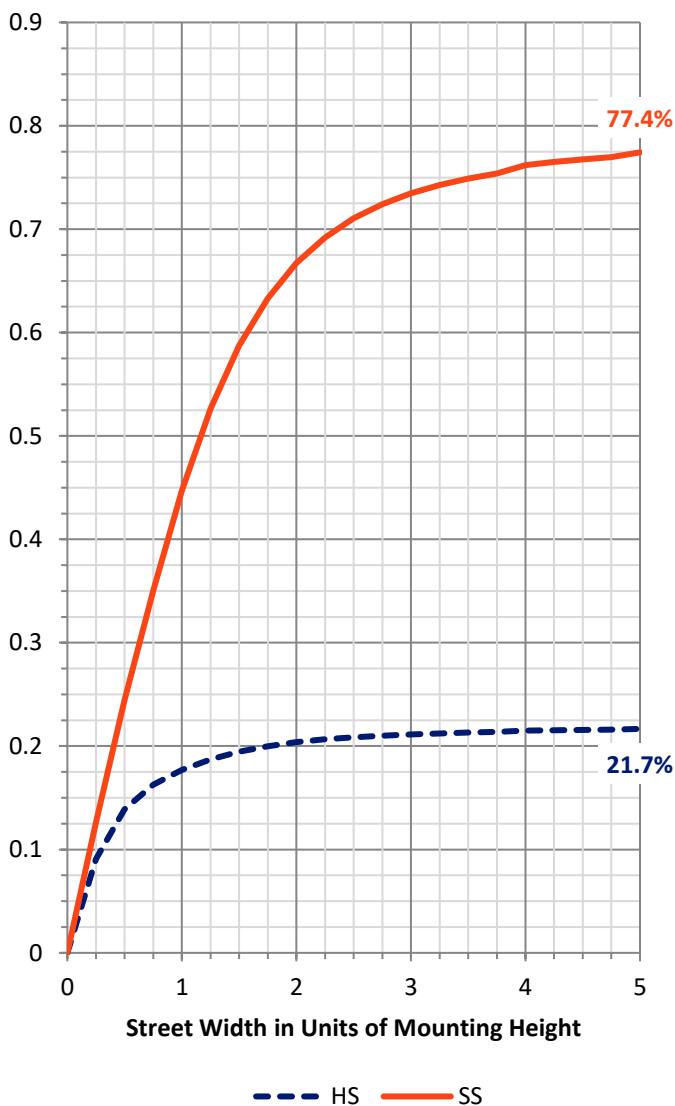
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3631.7 | 0.0 | 3631.7 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 12970.5 | 0.0 | 12970.5 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 16602.2 | 0.0 | 16602.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 353.1 | 2.1 |
| 10°-20° | 936.8 | 5.6 |
| 20°-30° | 1618.4 | 9.7 |
| 30°-40° | 1880.9 | 11.3 |
| 40°-50° | 2624.2 | 15.8 |
| 50°-60° | 3560.8 | 21.4 |
| 60°-70° | 3387.7 | 20.4 |
| 70°-80° | 1830.1 | 11.0 |
| 80°-90° | 410.2 | 2.5 |
| 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° | 16602.2 | 100.0 |
| 0°-180° | 16602.2 | 100.0 |

Coefficient of Utilization



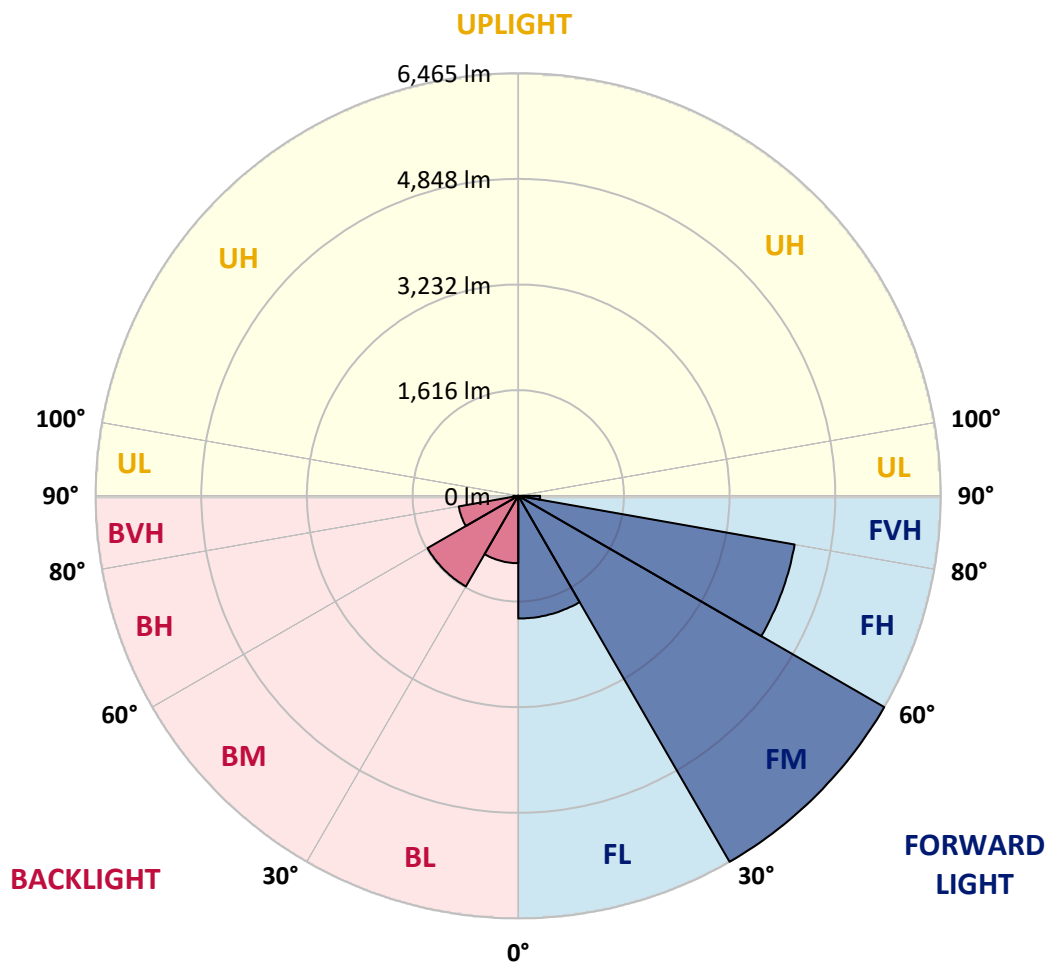
REPORT NUMBER: P651906
 CATALOG NUMBER: GALN-SA5A-840-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1877.7 | 11.3 | | | |
| FM (30°-60°) | 6464.5 | 38.9 | | | |
| FH (60°-80°) | 4293.0 | 25.9 | | | G2/5000 |
| FVH (80°-90°) | 335.2 | 2.0 | | | G3/500 |
| BL (0°-30°) | 1030.7 | 6.2 | B3/2500 | | |
| BM (30°-60°) | 1601.3 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 924.7 | 5.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 75.0 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P651906
 CATALOG NUMBER: GALN-SA5A-840-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 |
| 2.5° | 4628.7 | 4611.2 | 4561.9 | 4432.7 | 4302.3 | 4169.8 | 4067.9 | 3940.8 | 3808.3 | 3737.2 | 3646.2 |
| 5° | 4692.3 | 4672.5 | 4556.5 | 4265.0 | 4001.1 | 3724.0 | 3502.8 | 3308.9 | 3230.0 | 3113.9 | 3020.8 |
| 7.5° | 4543.3 | 4534.5 | 4360.3 | 3941.9 | 3580.6 | 3218.0 | 2967.1 | 2811.6 | 2670.3 | 2617.8 | 2628.7 |
| 10° | 4407.4 | 4372.4 | 4154.5 | 3607.9 | 3186.2 | 2891.6 | 2712.0 | 2559.7 | 2460.0 | 2433.8 | 2439.2 |
| 12.5° | 4294.7 | 4247.6 | 3990.1 | 3383.3 | 3014.2 | 2778.7 | 2549.8 | 2391.0 | 2300.1 | 2325.3 | 2410.7 |
| 15° | 4271.6 | 4208.1 | 3921.2 | 3306.7 | 2920.0 | 2616.7 | 2365.8 | 2182.9 | 2115.0 | 2169.8 | 2306.7 |
| 17.5° | 4420.6 | 4340.7 | 4039.4 | 3331.9 | 2830.2 | 2451.3 | 2143.5 | 1934.3 | 1877.4 | 1965.0 | 2143.5 |
| 20° | 4899.2 | 4781.0 | 4408.5 | 3477.5 | 2821.5 | 2369.1 | 2014.3 | 1803.9 | 1828.1 | 1994.5 | 2180.7 |
| 22.5° | 5784.2 | 5606.8 | 5054.7 | 3690.1 | 2867.5 | 2348.3 | 1988.0 | 1878.5 | 2011.0 | 2152.3 | 2274.9 |
| 25° | 5959.5 | 5820.4 | 5170.9 | 3738.2 | 2857.6 | 2334.1 | 2062.5 | 2117.2 | 2265.1 | 2335.2 | 2292.5 |
| 27.5° | 6058.1 | 5899.3 | 5163.2 | 3499.5 | 2555.3 | 2117.2 | 1971.6 | 2062.5 | 2099.6 | 2031.8 | 1915.6 |
| 30° | 6288.1 | 6122.7 | 5293.6 | 3248.6 | 2104.1 | 1570.7 | 1376.8 | 1339.5 | 1364.8 | 1377.9 | 1336.3 |
| 32.5° | 6604.6 | 6441.4 | 5538.9 | 3084.4 | 1819.3 | 1299.0 | 1108.4 | 1055.9 | 1043.8 | 1029.6 | 1013.2 |
| 35° | 7014.3 | 6763.4 | 5779.9 | 2979.2 | 1702.1 | 1201.5 | 1026.3 | 985.7 | 969.3 | 949.7 | 932.1 |
| 37.5° | 7430.5 | 7167.6 | 6084.4 | 2868.6 | 1624.3 | 1133.7 | 971.5 | 952.9 | 924.4 | 903.7 | 878.4 |
| 40° | 7872.9 | 7578.3 | 6361.5 | 2772.2 | 1548.8 | 1089.9 | 932.1 | 929.9 | 892.6 | 868.6 | 839.0 |
| 42.5° | 8256.3 | 7952.9 | 6609.0 | 2713.1 | 1490.7 | 1043.8 | 908.0 | 914.6 | 876.2 | 840.1 | 801.7 |
| 45° | 8560.8 | 8262.9 | 6837.9 | 2713.1 | 1443.6 | 997.8 | 903.7 | 899.2 | 860.9 | 816.0 | 772.2 |
| 47.5° | 8828.1 | 8520.3 | 7061.4 | 2782.0 | 1414.1 | 959.5 | 879.5 | 887.2 | 847.7 | 790.8 | 748.1 |
| 50° | 9035.1 | 8763.5 | 7362.5 | 2889.4 | 1384.5 | 928.8 | 848.8 | 890.5 | 836.8 | 777.7 | 728.4 |
| 52.5° | 9299.0 | 9055.9 | 7725.1 | 3036.2 | 1359.2 | 894.8 | 821.5 | 890.5 | 835.7 | 778.8 | 725.1 |
| 55° | 9664.9 | 9408.6 | 8162.2 | 3157.7 | 1318.8 | 863.1 | 797.4 | 865.3 | 832.4 | 773.3 | 716.4 |
| 57.5° | 9921.2 | 9729.5 | 8471.0 | 3238.8 | 1260.7 | 822.6 | 775.5 | 841.2 | 818.2 | 752.4 | 690.0 |
| 58° | 9933.2 | 9745.9 | 8515.9 | 3257.4 | 1246.4 | 814.9 | 770.0 | 830.2 | 811.6 | 743.7 | 681.3 |
| 60° | 9795.2 | 9634.2 | 8524.7 | 3231.1 | 1165.4 | 776.6 | 741.5 | 785.3 | 776.6 | 692.2 | 634.2 |
| 62.5° | 9293.6 | 9121.6 | 8170.9 | 3017.5 | 1058.1 | 729.5 | 697.7 | 725.1 | 705.3 | 619.9 | 566.2 |
| 65° | 8580.6 | 8264.0 | 7443.6 | 2682.4 | 981.4 | 679.1 | 638.6 | 640.8 | 619.9 | 558.6 | 511.5 |
| 67.5° | 7630.9 | 7277.2 | 6302.3 | 2260.7 | 923.3 | 623.2 | 568.4 | 563.0 | 537.8 | 498.4 | 460.0 |
| 70° | 6462.2 | 6220.2 | 5121.6 | 1839.0 | 858.7 | 561.9 | 489.6 | 486.4 | 471.0 | 441.4 | 407.5 |
| 72.5° | 5237.7 | 4929.9 | 4135.9 | 1472.1 | 779.9 | 502.7 | 416.2 | 422.8 | 403.1 | 382.2 | 351.6 |
| 75° | 3865.3 | 3663.7 | 3197.1 | 1180.8 | 673.6 | 438.1 | 347.2 | 349.4 | 340.6 | 318.7 | 294.6 |
| 77.5° | 2545.5 | 2485.2 | 2287.0 | 775.5 | 518.1 | 348.3 | 283.7 | 285.9 | 279.3 | 259.6 | 234.4 |
| 80° | 1713.0 | 1672.5 | 1549.9 | 499.5 | 346.1 | 251.9 | 219.1 | 221.3 | 220.2 | 199.3 | 165.4 |
| 82.5° | 1055.9 | 1038.3 | 998.9 | 337.3 | 239.9 | 180.7 | 144.6 | 151.1 | 163.2 | 140.2 | 112.8 |
| 85° | 498.4 | 499.5 | 603.5 | 184.0 | 141.3 | 116.1 | 78.9 | 84.4 | 84.4 | 84.4 | 63.5 |
| 87.5° | 64.6 | 67.9 | 83.3 | 77.8 | 51.5 | 43.8 | 28.5 | 24.1 | 20.8 | 27.4 | 19.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P651906

CATALOG NUMBER: GALN-SA5A-840-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 |
| 2.5° | 3614.4 | 3592.6 | 3545.5 | 3534.6 | 3527.9 | 3546.6 | 3497.3 | 3510.4 | 3488.6 | 3549.9 | 3540.0 |
| 5° | 3026.3 | 3028.5 | 3066.8 | 3092.0 | 3100.8 | 3092.0 | 3059.1 | 3002.2 | 2958.4 | 2940.9 | 2945.3 |
| 7.5° | 2607.9 | 2646.2 | 2712.0 | 2785.3 | 2852.2 | 2871.8 | 2853.3 | 2744.8 | 2626.5 | 2552.0 | 2528.0 |
| 10° | 2468.8 | 2520.3 | 2595.8 | 2653.9 | 2713.1 | 2760.2 | 2770.0 | 2685.6 | 2545.5 | 2369.1 | 2300.1 |
| 12.5° | 2476.5 | 2546.5 | 2618.9 | 2637.5 | 2632.0 | 2650.6 | 2641.8 | 2627.6 | 2535.6 | 2311.1 | 2196.1 |
| 15° | 2404.2 | 2487.4 | 2537.8 | 2528.0 | 2510.4 | 2494.0 | 2470.9 | 2434.9 | 2402.0 | 2244.3 | 2117.2 |
| 17.5° | 2237.6 | 2323.1 | 2364.7 | 2368.0 | 2368.0 | 2363.6 | 2307.8 | 2294.7 | 2290.3 | 2213.6 | 2135.8 |
| 20° | 2268.3 | 2315.4 | 2296.9 | 2266.2 | 2274.9 | 2304.5 | 2271.6 | 2265.1 | 2290.3 | 2324.2 | 2310.0 |
| 22.5° | 2285.8 | 2269.4 | 2129.2 | 1993.4 | 1962.7 | 2054.7 | 2073.4 | 2146.7 | 2248.7 | 2371.3 | 2451.3 |
| 25° | 2177.4 | 2044.9 | 1794.1 | 1640.8 | 1554.3 | 1639.6 | 1751.4 | 1887.2 | 2039.4 | 2197.2 | 2290.3 |
| 27.5° | 1820.3 | 1719.6 | 1540.0 | 1401.9 | 1326.4 | 1339.5 | 1434.8 | 1558.6 | 1699.9 | 1806.1 | 1874.1 |
| 30° | 1371.3 | 1326.4 | 1233.3 | 1186.2 | 1140.2 | 1129.2 | 1169.7 | 1216.8 | 1279.3 | 1292.4 | 1309.9 |
| 32.5° | 1009.9 | 1003.3 | 1008.8 | 993.5 | 984.6 | 983.5 | 971.5 | 982.5 | 989.0 | 996.8 | 981.4 |
| 35° | 913.5 | 904.7 | 889.4 | 885.0 | 879.5 | 881.7 | 876.2 | 870.8 | 875.1 | 881.7 | 886.1 |
| 37.5° | 864.2 | 851.0 | 829.1 | 821.5 | 821.5 | 824.8 | 816.0 | 813.8 | 821.5 | 842.3 | 853.2 |
| 40° | 825.9 | 810.6 | 785.3 | 775.5 | 782.0 | 790.8 | 778.8 | 774.4 | 793.0 | 814.9 | 832.4 |
| 42.5° | 789.7 | 777.7 | 753.5 | 742.6 | 748.1 | 764.6 | 747.0 | 743.7 | 767.8 | 791.9 | 812.7 |
| 45° | 759.0 | 747.0 | 725.1 | 719.6 | 721.8 | 737.1 | 725.1 | 725.1 | 748.1 | 774.4 | 793.0 |
| 47.5° | 734.9 | 719.6 | 705.3 | 701.0 | 703.2 | 711.9 | 709.7 | 709.7 | 731.7 | 759.0 | 777.7 |
| 50° | 710.8 | 697.7 | 679.1 | 681.3 | 686.8 | 698.8 | 697.7 | 701.0 | 722.9 | 756.8 | 776.6 |
| 52.5° | 699.9 | 680.2 | 659.3 | 661.5 | 678.0 | 692.2 | 687.9 | 691.1 | 716.4 | 779.9 | 808.3 |
| 55° | 687.9 | 661.5 | 637.5 | 640.8 | 659.3 | 680.2 | 674.7 | 679.1 | 708.6 | 795.2 | 834.6 |
| 57.5° | 664.8 | 634.2 | 607.9 | 610.1 | 637.5 | 659.3 | 650.6 | 656.1 | 691.1 | 778.8 | 820.4 |
| 58° | 655.0 | 628.7 | 603.5 | 604.6 | 630.9 | 655.0 | 645.1 | 649.5 | 685.7 | 774.4 | 813.8 |
| 60° | 613.3 | 598.0 | 576.1 | 577.2 | 602.4 | 623.2 | 617.7 | 622.1 | 657.2 | 742.6 | 772.2 |
| 62.5° | 556.4 | 547.7 | 542.2 | 542.2 | 557.5 | 577.2 | 582.7 | 588.2 | 619.9 | 671.5 | 697.7 |
| 65° | 495.1 | 495.1 | 496.2 | 496.2 | 506.0 | 531.3 | 534.5 | 548.8 | 578.4 | 603.5 | 623.2 |
| 67.5° | 453.5 | 451.3 | 453.5 | 448.0 | 452.4 | 467.7 | 484.1 | 497.3 | 527.9 | 545.5 | 552.0 |
| 70° | 399.8 | 398.7 | 399.8 | 392.1 | 397.6 | 410.7 | 421.7 | 443.6 | 475.3 | 488.5 | 491.8 |
| 72.5° | 347.2 | 347.2 | 349.4 | 343.9 | 343.9 | 358.2 | 365.8 | 389.9 | 419.5 | 427.1 | 428.2 |
| 75° | 292.4 | 295.7 | 295.7 | 288.0 | 290.2 | 299.0 | 308.9 | 328.6 | 356.0 | 361.5 | 361.5 |
| 77.5° | 232.2 | 244.2 | 244.2 | 236.6 | 239.9 | 240.9 | 254.2 | 264.0 | 284.8 | 286.9 | 278.2 |
| 80° | 168.7 | 180.7 | 190.6 | 184.0 | 189.5 | 182.9 | 190.6 | 197.1 | 218.0 | 208.1 | 193.9 |
| 82.5° | 120.5 | 129.3 | 136.9 | 138.0 | 132.5 | 120.5 | 130.4 | 131.4 | 141.3 | 128.2 | 120.5 |
| 85° | 66.8 | 74.5 | 84.4 | 80.0 | 71.2 | 63.5 | 66.8 | 69.0 | 67.9 | 64.6 | 60.2 |
| 87.5° | 17.5 | 18.6 | 20.8 | 15.3 | 14.2 | 12.0 | 16.4 | 16.4 | 18.6 | 19.7 | 18.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P651906
 CATALOG NUMBER: GALN-SA5A-840-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 | 4166.5 |
| 2.5° | 3547.7 | 3595.9 | 3699.9 | 3778.8 | 3875.2 | 3992.3 | 4130.3 | 4269.4 | 4419.5 | 4466.6 | 4532.3 |
| 5° | 2935.4 | 3055.9 | 3106.2 | 3249.7 | 3392.1 | 3605.7 | 3833.5 | 4097.5 | 4386.7 | 4525.8 | 4659.4 |
| 7.5° | 2508.2 | 2572.9 | 2625.4 | 2730.6 | 2901.4 | 3161.0 | 3446.9 | 3776.6 | 4186.2 | 4388.8 | 4584.9 |
| 10° | 2278.2 | 2284.7 | 2349.4 | 2479.8 | 2628.7 | 2857.6 | 3128.2 | 3497.3 | 3954.0 | 4200.5 | 4430.5 |
| 12.5° | 2126.0 | 2097.5 | 2167.6 | 2303.4 | 2472.1 | 2683.5 | 2932.1 | 3283.7 | 3786.4 | 4039.4 | 4317.6 |
| 15° | 1992.3 | 1947.4 | 2000.0 | 2139.1 | 2305.6 | 2554.2 | 2821.5 | 3193.9 | 3720.8 | 4015.4 | 4324.3 |
| 17.5° | 1995.6 | 1871.9 | 1890.5 | 2007.6 | 2173.1 | 2426.1 | 2750.3 | 3190.6 | 3820.4 | 4159.9 | 4525.8 |
| 20° | 2242.1 | 2043.8 | 1959.4 | 1981.4 | 2141.3 | 2417.3 | 2783.1 | 3343.9 | 4147.9 | 4643.0 | 5034.0 |
| 22.5° | 2484.1 | 2364.7 | 2228.9 | 2184.0 | 2271.6 | 2560.8 | 2992.4 | 3706.5 | 4859.8 | 5605.7 | 6312.2 |
| 25° | 2399.8 | 2501.6 | 2467.7 | 2404.2 | 2423.8 | 2663.8 | 3134.7 | 4004.4 | 5412.9 | 6253.0 | 6916.8 |
| 27.5° | 1920.1 | 2105.2 | 2142.4 | 2141.3 | 2149.0 | 2346.1 | 2819.3 | 3803.9 | 5482.0 | 6376.8 | 7011.0 |
| 30° | 1349.4 | 1365.9 | 1385.5 | 1423.9 | 1459.0 | 1635.2 | 2205.9 | 3339.5 | 5451.3 | 6432.6 | 7067.9 |
| 32.5° | 973.7 | 995.7 | 1023.0 | 1075.6 | 1158.8 | 1383.4 | 1929.9 | 3191.7 | 5613.4 | 6663.7 | 7234.5 |
| 35° | 890.5 | 915.7 | 941.9 | 1002.2 | 1081.0 | 1289.2 | 1820.3 | 3130.4 | 5879.5 | 7038.3 | 7533.4 |
| 37.5° | 864.2 | 892.6 | 915.7 | 959.5 | 1023.0 | 1221.2 | 1720.7 | 3088.7 | 6152.3 | 7434.9 | 7934.3 |
| 40° | 845.5 | 878.4 | 897.0 | 932.1 | 975.9 | 1158.8 | 1632.0 | 3055.9 | 6416.2 | 7797.4 | 8256.3 |
| 42.5° | 829.1 | 863.1 | 887.2 | 912.4 | 948.6 | 1103.0 | 1553.2 | 3023.0 | 6645.2 | 8149.0 | 8577.3 |
| 45° | 809.5 | 852.1 | 882.8 | 902.6 | 934.3 | 1055.9 | 1492.9 | 2996.7 | 6905.9 | 8461.1 | 8901.5 |
| 47.5° | 793.0 | 840.1 | 878.4 | 901.5 | 913.5 | 1023.0 | 1444.7 | 3032.9 | 7219.1 | 8787.5 | 9202.6 |
| 50° | 794.1 | 839.0 | 887.2 | 923.3 | 891.5 | 995.7 | 1415.2 | 3176.4 | 7626.5 | 9175.3 | 9440.3 |
| 52.5° | 829.1 | 883.9 | 922.2 | 931.0 | 860.9 | 962.8 | 1399.8 | 3427.2 | 8108.5 | 9518.1 | 9680.2 |
| 55° | 868.6 | 925.5 | 967.2 | 961.7 | 844.4 | 921.1 | 1396.5 | 3694.4 | 8636.4 | 9917.9 | 9992.3 |
| 57.5° | 854.3 | 937.5 | 1001.1 | 972.6 | 845.5 | 880.6 | 1382.3 | 3910.2 | 9077.8 | 10216.9 | 10301.2 |
| 58° | 849.9 | 933.2 | 1005.5 | 970.4 | 842.3 | 868.6 | 1379.0 | 3928.8 | 9139.1 | 10237.7 | 10345.1 |
| 60° | 807.2 | 894.8 | 1002.2 | 954.0 | 823.7 | 835.7 | 1342.8 | 3989.0 | 9122.7 | 10130.3 | 10371.4 |
| 62.5° | 729.5 | 801.7 | 926.6 | 874.1 | 766.7 | 791.9 | 1261.8 | 3914.6 | 8678.0 | 9613.4 | 9986.9 |
| 65° | 641.9 | 695.5 | 778.8 | 768.9 | 685.7 | 747.0 | 1151.2 | 3619.9 | 7787.6 | 8774.4 | 9167.6 |
| 67.5° | 576.1 | 619.9 | 672.5 | 658.3 | 616.6 | 686.8 | 1031.7 | 3121.6 | 6788.6 | 7766.7 | 8261.8 |
| 70° | 509.3 | 543.3 | 569.5 | 559.7 | 546.6 | 627.6 | 925.5 | 2533.4 | 5831.3 | 6809.4 | 7289.2 |
| 72.5° | 441.4 | 473.1 | 495.1 | 480.8 | 473.1 | 565.2 | 839.0 | 1966.1 | 4605.7 | 5617.8 | 6234.4 |
| 75° | 369.1 | 400.9 | 416.2 | 399.8 | 395.4 | 498.4 | 710.8 | 1468.8 | 3455.7 | 4330.8 | 4863.1 |
| 77.5° | 285.9 | 319.8 | 339.5 | 334.0 | 336.2 | 409.7 | 573.9 | 1005.5 | 2470.9 | 2951.8 | 3512.6 |
| 80° | 200.4 | 237.7 | 250.8 | 245.3 | 260.7 | 312.2 | 405.3 | 638.6 | 1704.3 | 1915.6 | 2311.1 |
| 82.5° | 123.8 | 158.8 | 161.0 | 166.5 | 177.5 | 231.1 | 305.6 | 388.8 | 1070.1 | 1106.3 | 1393.2 |
| 85° | 62.4 | 75.6 | 81.1 | 89.8 | 99.7 | 141.3 | 174.2 | 240.9 | 688.9 | 521.3 | 778.8 |
| 87.5° | 20.8 | 21.9 | 26.3 | 32.9 | 40.5 | 58.0 | 74.5 | 98.6 | 170.9 | 94.2 | 240.9 |
| 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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| 2.5° | 4664.9 | 4758.0 | 4825.8 | 4888.3 | 4828.1 | 4822.5 | 4763.4 | 4668.1 | 4628.7 | 4628.7 |
| 5° | 4939.8 | 5157.8 | 5334.0 | 5446.9 | 5398.7 | 5282.6 | 5090.9 | 4846.7 | 4715.2 | 4692.3 |
| 7.5° | 5015.4 | 5445.8 | 5773.3 | 5889.4 | 5808.4 | 5552.0 | 5185.1 | 4773.3 | 4584.9 | 4543.3 |
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| 12.5° | 4921.2 | 5540.0 | 6053.7 | 6319.9 | 6246.4 | 5807.3 | 5248.7 | 4632.0 | 4363.6 | 4294.7 |
| 15° | 4956.2 | 5544.4 | 6000.0 | 6275.0 | 6322.0 | 5944.2 | 5340.7 | 4672.5 | 4345.0 | 4271.6 |
| 17.5° | 5177.4 | 5627.6 | 5923.3 | 6145.7 | 6311.1 | 6130.4 | 5602.4 | 4866.4 | 4511.5 | 4420.6 |
| 20° | 5639.7 | 5827.0 | 5967.1 | 6139.1 | 6405.3 | 6510.4 | 6138.0 | 5398.7 | 4979.2 | 4899.2 |
| 22.5° | 6978.1 | 6944.1 | 6657.2 | 6653.9 | 7039.4 | 7461.2 | 7436.0 | 6480.8 | 5850.0 | 5784.2 |
| 25° | 7479.8 | 7322.1 | 6907.0 | 6806.1 | 6975.9 | 7626.5 | 7532.3 | 6702.1 | 6119.4 | 5959.5 |
| 27.5° | 7283.7 | 6892.7 | 6619.9 | 6597.0 | 6541.1 | 7155.6 | 7382.3 | 6791.9 | 6213.6 | 6058.1 |
| 30° | 7271.6 | 6696.6 | 6306.7 | 6352.7 | 6406.4 | 6993.4 | 7465.6 | 7073.4 | 6454.6 | 6288.1 |
| 32.5° | 7301.2 | 6724.0 | 6329.7 | 6338.4 | 6498.4 | 7017.6 | 7557.6 | 7380.1 | 6771.1 | 6604.6 |
| 35° | 7420.6 | 6879.5 | 6476.5 | 6455.7 | 6705.4 | 7175.2 | 7714.2 | 7862.0 | 7203.8 | 7014.3 |
| 37.5° | 7613.4 | 7189.5 | 6744.8 | 6739.4 | 7101.9 | 7460.0 | 7909.1 | 8348.4 | 7634.2 | 7430.5 |
| 40° | 7897.1 | 7552.0 | 7222.3 | 7192.8 | 7640.7 | 7923.4 | 8162.2 | 8866.4 | 8134.7 | 7872.9 |
| 42.5° | 8239.9 | 7986.9 | 7852.2 | 7969.4 | 8399.8 | 8443.6 | 8556.4 | 9345.0 | 8560.8 | 8256.3 |
| 45° | 8557.5 | 8545.5 | 8732.8 | 9043.9 | 9294.6 | 9031.8 | 8968.3 | 9665.9 | 8891.6 | 8560.8 |
| 47.5° | 8935.4 | 9261.8 | 9827.0 | 10282.7 | 10545.5 | 9716.3 | 9319.9 | 9875.2 | 9132.6 | 8828.1 |
| 50° | 9318.8 | 10119.4 | 11022.0 | 11657.2 | 11713.1 | 10460.0 | 9561.9 | 10072.3 | 9351.6 | 9035.1 |
| 52.5° | 9721.8 | 10804.0 | 12005.5 | 12743.8 | 12635.4 | 11107.3 | 9796.3 | 10206.0 | 9577.2 | 9299.0 |
| 55° | 10072.3 | 11223.5 | 12555.4 | 13264.0 | 13105.2 | 11501.7 | 10049.4 | 10350.5 | 9899.2 | 9664.9 |
| 57.5° | 10268.4 | 11258.6 | 12418.5 | 13037.3 | 12865.4 | 11425.0 | 10165.4 | 10457.8 | 10105.2 | 9921.2 |
| 58° | 10296.9 | 11211.5 | 12296.8 | 12905.8 | 12730.6 | 11360.4 | 10164.3 | 10453.5 | 10118.3 | 9933.2 |
| 60° | 10271.6 | 10905.8 | 11844.5 | 12386.7 | 12202.7 | 10955.1 | 10122.7 | 10371.4 | 9951.8 | 9795.2 |
| 62.5° | 10038.3 | 10375.8 | 11063.6 | 11457.9 | 11405.3 | 10322.0 | 9951.8 | 10061.4 | 9444.7 | 9293.6 |
| 65° | 9731.7 | 9652.8 | 10063.6 | 10342.9 | 10382.3 | 9847.8 | 9782.1 | 9391.0 | 8794.1 | 8580.6 |
| 67.5° | 9359.3 | 8833.5 | 8832.4 | 8991.3 | 9057.0 | 9118.3 | 9428.3 | 8662.7 | 7856.5 | 7630.9 |
| 70° | 8727.3 | 7570.7 | 7222.3 | 7409.6 | 7354.9 | 7872.9 | 8796.3 | 7639.6 | 6726.2 | 6462.2 |
| 72.5° | 7568.5 | 6007.7 | 5450.2 | 5691.1 | 5553.1 | 6174.2 | 7696.7 | 6287.0 | 5561.9 | 5237.7 |
| 75° | 6134.8 | 4494.0 | 3919.0 | 4140.2 | 4054.8 | 4683.4 | 6404.2 | 4566.3 | 3989.0 | 3865.3 |
| 77.5° | 4763.4 | 3256.3 | 2922.2 | 2891.6 | 2955.1 | 3485.2 | 4697.7 | 3083.3 | 2629.8 | 2545.5 |
| 80° | 3060.2 | 2330.7 | 2350.5 | 2311.1 | 2344.0 | 2197.2 | 2852.2 | 1967.2 | 1781.0 | 1713.0 |
| 82.5° | 2014.3 | 1624.3 | 1936.5 | 1787.5 | 1697.7 | 1477.6 | 1870.7 | 1288.1 | 1093.1 | 1055.9 |
| 85° | 1372.4 | 1196.1 | 1088.8 | 832.4 | 980.3 | 1138.0 | 1403.0 | 693.3 | 549.8 | 498.4 |
| 87.5° | 619.9 | 416.2 | 305.6 | 188.4 | 297.9 | 343.9 | 681.3 | 81.1 | 62.4 | 64.6 |
| 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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