

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: P650759

Luminaire Tested: **GALN-SA2C-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12117.1 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

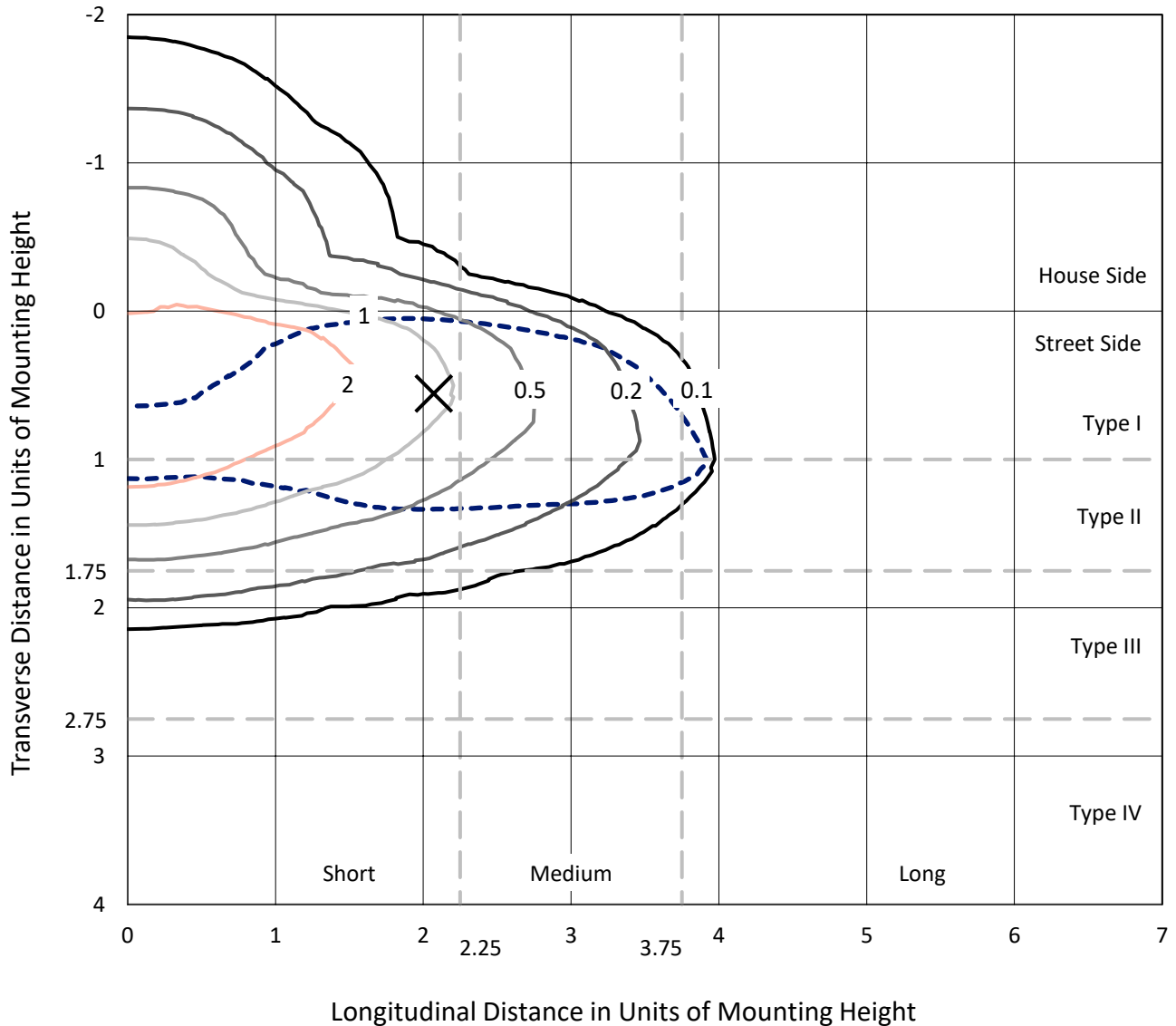
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2C-840-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

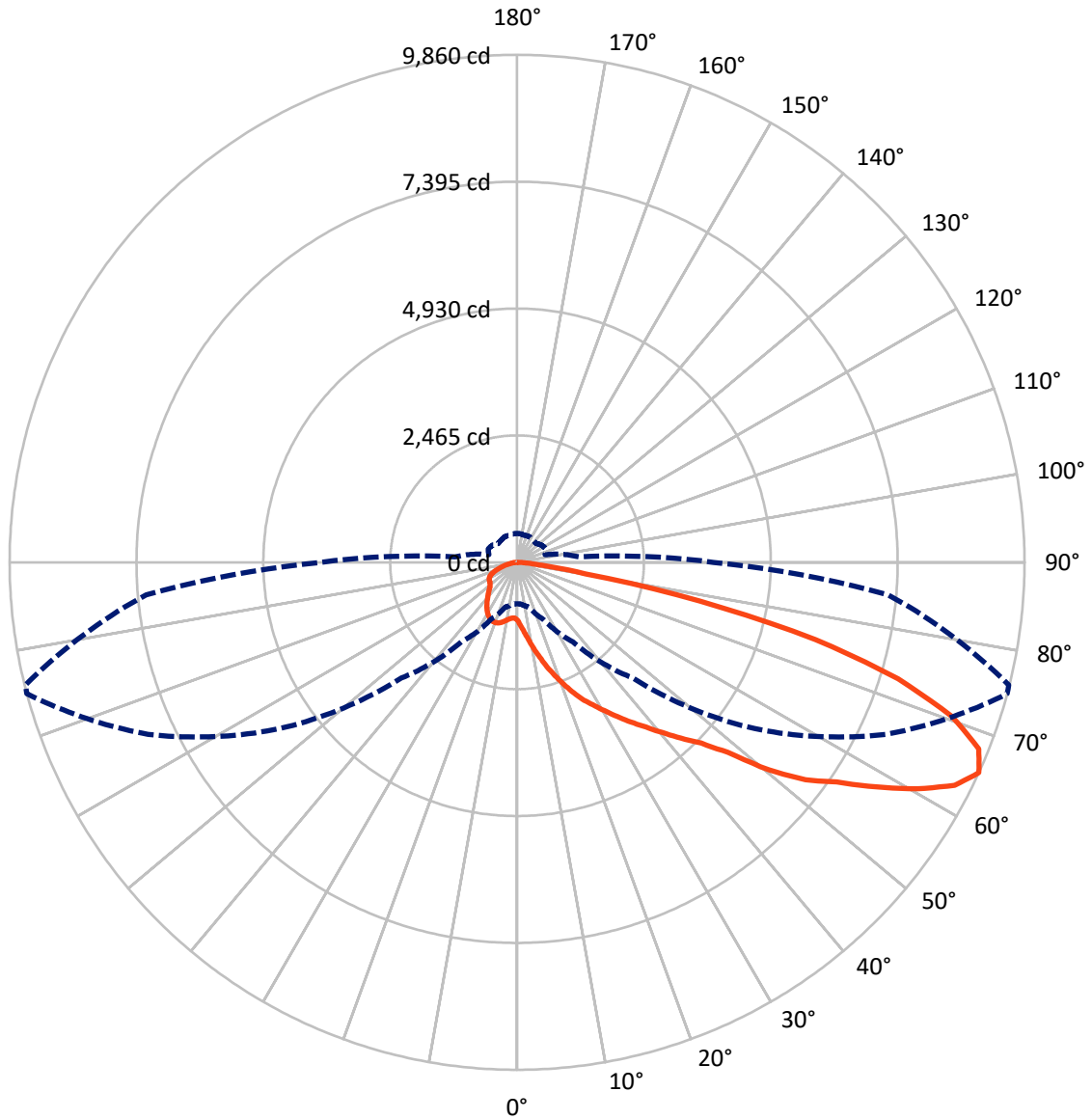
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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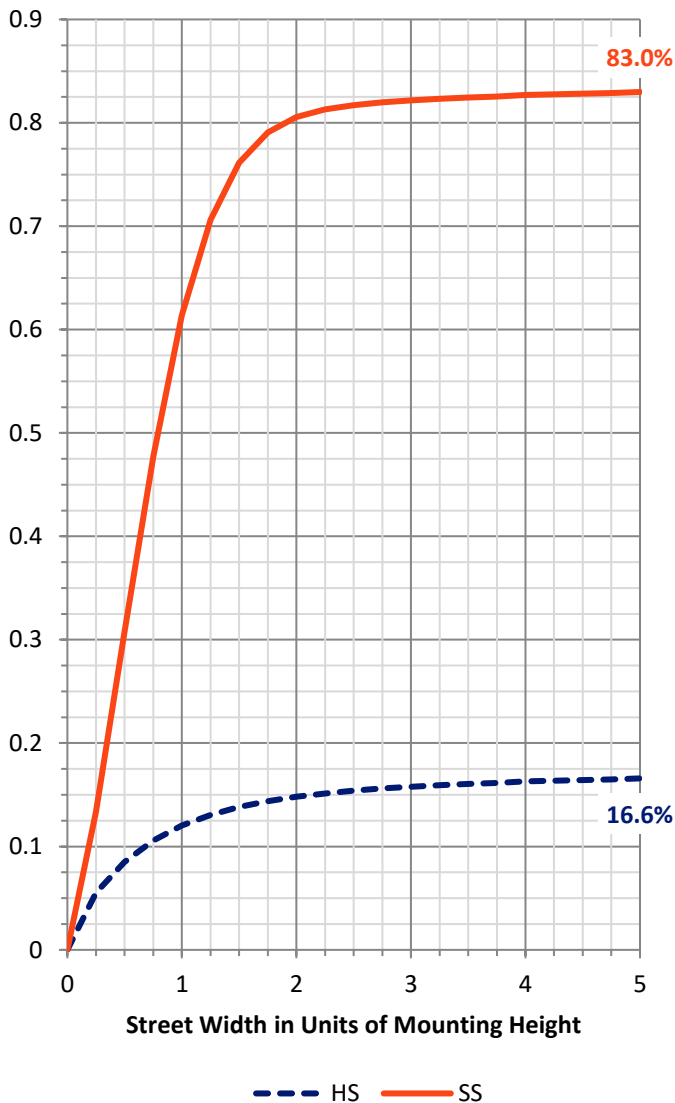
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2037.1 | 0.0 | 2037.1 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 10080.1 | 0.0 | 10080.1 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 12117.1 | 0.0 | 12117.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 136.8 | 1.1 |
| 10°-20° | 535.8 | 4.4 |
| 20°-30° | 1034.9 | 8.5 |
| 30°-40° | 1681.0 | 13.9 |
| 40°-50° | 2312.4 | 19.1 |
| 50°-60° | 2730.2 | 22.5 |
| 60°-70° | 2392.1 | 19.7 |
| 70°-80° | 1142.0 | 9.4 |
| 80°-90° | 152.0 | 1.3 |
| 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° | 12117.1 | 100.0 |
| 0°-180° | 12117.1 | 100.0 |

Coefficient of Utilization



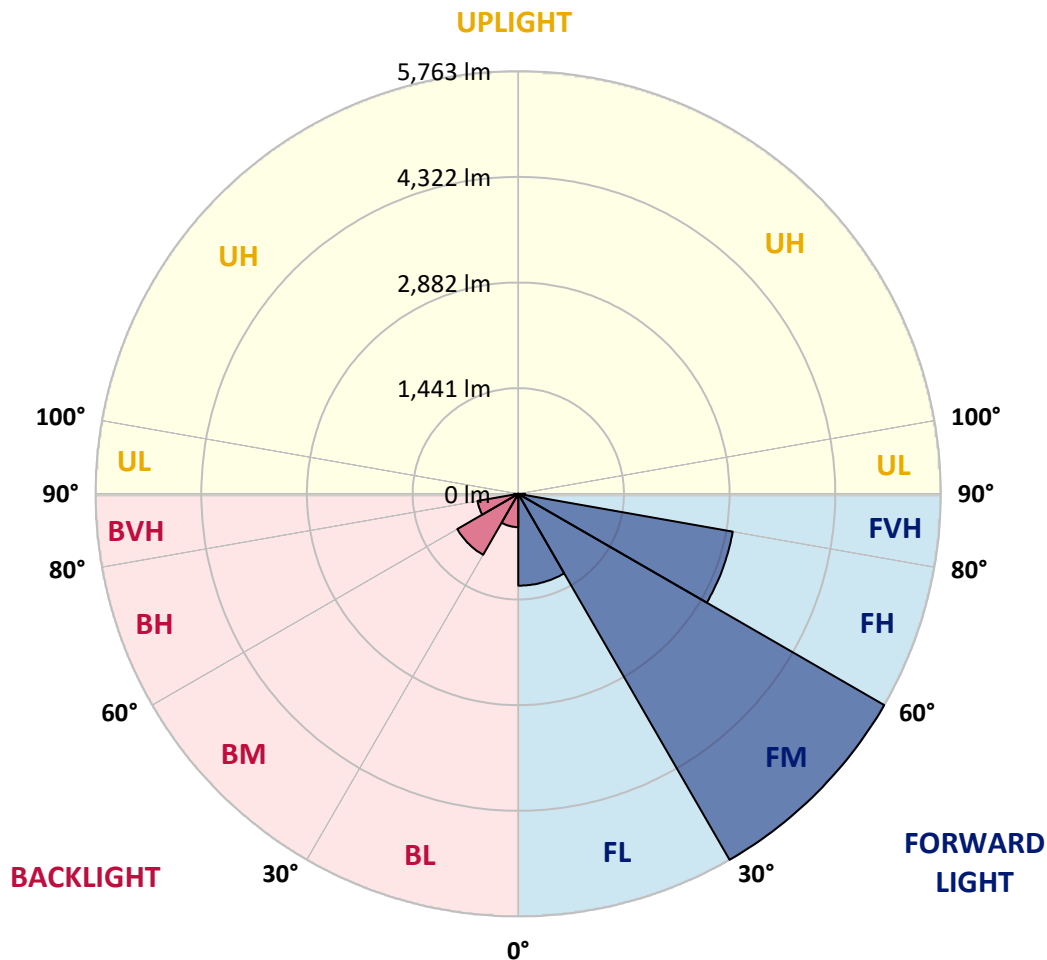
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 CATALOG NUMBER: GALN-SA2C-840-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1252.7 | 10.3 | | | |
| FM (30°-60°) | 5763.2 | 47.6 | | | |
| FH (60°-80°) | 2969.2 | 24.5 | | | G2/5000 |
| FVH (80°-90°) | 95.0 | 0.8 | | | G1/100 |
| BL (0°-30°) | 454.8 | 3.8 | B1/500 | | |
| BM (30°-60°) | 960.5 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 564.8 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 57.0 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 |
| 2.5° | 1495.9 | 1486.0 | 1475.5 | 1446.6 | 1415.7 | 1380.8 | 1330.9 | 1282.9 | 1219.2 | 1217.2 | 1169.8 |
| 5° | 1910.6 | 1904.0 | 1857.3 | 1830.4 | 1758.8 | 1663.4 | 1582.6 | 1457.1 | 1340.7 | 1326.9 | 1234.9 |
| 7.5° | 2291.7 | 2266.2 | 2248.4 | 2199.7 | 2128.7 | 2006.5 | 1850.1 | 1680.6 | 1486.0 | 1467.6 | 1315.2 |
| 10° | 2579.0 | 2576.3 | 2567.2 | 2525.1 | 2471.9 | 2350.3 | 2176.8 | 1933.5 | 1670.1 | 1633.9 | 1412.4 |
| 12.5° | 2793.9 | 2795.8 | 2794.6 | 2793.9 | 2755.8 | 2652.6 | 2464.6 | 2208.3 | 1856.0 | 1830.4 | 1524.7 |
| 15° | 2935.2 | 2954.9 | 2962.8 | 2995.6 | 2998.9 | 2930.0 | 2768.2 | 2473.8 | 2065.7 | 2027.6 | 1645.7 |
| 17.5° | 3028.5 | 3038.4 | 3075.2 | 3131.0 | 3176.4 | 3163.9 | 3019.9 | 2719.6 | 2280.0 | 2216.2 | 1771.2 |
| 20° | 3117.9 | 3135.0 | 3163.3 | 3239.4 | 3319.7 | 3356.4 | 3255.3 | 2971.3 | 2492.2 | 2451.4 | 1909.9 |
| 22.5° | 3303.9 | 3328.2 | 3338.1 | 3376.9 | 3445.2 | 3510.2 | 3464.2 | 3212.5 | 2724.8 | 2669.7 | 2057.2 |
| 25° | 3618.7 | 3644.3 | 3616.7 | 3607.6 | 3629.8 | 3662.1 | 3652.2 | 3439.9 | 2944.4 | 2865.5 | 2196.4 |
| 27.5° | 4028.8 | 4032.1 | 3978.2 | 3927.0 | 3871.7 | 3855.3 | 3825.0 | 3641.7 | 3135.0 | 3069.2 | 2336.5 |
| 30° | 4469.2 | 4453.3 | 4364.0 | 4271.4 | 4178.0 | 4086.0 | 3999.2 | 3836.2 | 3347.3 | 3271.7 | 2473.8 |
| 32.5° | 4878.0 | 4869.4 | 4770.2 | 4626.3 | 4468.5 | 4381.8 | 4206.3 | 4032.8 | 3574.7 | 3501.8 | 2615.1 |
| 35° | 5184.3 | 5196.7 | 5087.6 | 4930.5 | 4758.4 | 4681.4 | 4460.0 | 4239.1 | 3810.0 | 3730.4 | 2768.9 |
| 37.5° | 5401.7 | 5395.2 | 5298.6 | 5162.6 | 5011.4 | 4944.3 | 4756.4 | 4464.5 | 4063.0 | 3986.8 | 2937.2 |
| 40° | 5479.3 | 5475.4 | 5403.8 | 5304.5 | 5208.6 | 5184.8 | 5066.6 | 4707.7 | 4352.8 | 4263.4 | 3139.6 |
| 42.5° | 5430.0 | 5438.6 | 5391.2 | 5364.3 | 5346.6 | 5363.6 | 5374.8 | 5026.5 | 4669.0 | 4586.8 | 3359.1 |
| 45° | 5278.9 | 5274.2 | 5267.7 | 5311.8 | 5411.7 | 5524.0 | 5679.8 | 5327.5 | 5012.7 | 4946.9 | 3653.6 |
| 47.5° | 5008.7 | 5041.6 | 5058.0 | 5179.6 | 5397.8 | 5664.0 | 6030.7 | 5731.1 | 5511.5 | 5454.4 | 4102.4 |
| 50° | 4630.8 | 4657.1 | 4754.4 | 4970.6 | 5295.9 | 5716.6 | 6373.8 | 6390.9 | 6343.6 | 6236.4 | 4590.1 |
| 52.5° | 4040.7 | 4081.4 | 4281.9 | 4678.1 | 5087.0 | 5694.9 | 6581.5 | 6956.8 | 7019.2 | 6939.0 | 5070.6 |
| 55° | 3380.1 | 3437.3 | 3648.9 | 4168.8 | 4799.1 | 5576.6 | 6724.8 | 7284.7 | 7533.8 | 7459.6 | 5533.2 |
| 57.5° | 2733.4 | 2793.9 | 3011.5 | 3514.9 | 4297.0 | 5315.0 | 6818.7 | 7650.2 | 8234.4 | 8137.9 | 6108.9 |
| 60° | 2048.6 | 2111.7 | 2298.4 | 2816.8 | 3581.9 | 4803.7 | 6755.0 | 7967.0 | 8934.4 | 8893.0 | 6685.4 |
| 62.5° | 1321.7 | 1391.4 | 1553.7 | 1982.8 | 2753.1 | 4105.1 | 6413.9 | 8141.7 | 9540.3 | 9490.4 | 7105.9 |
| 65° | 805.1 | 813.0 | 902.4 | 1231.0 | 1884.3 | 3178.4 | 5633.8 | 7909.8 | 9859.7 | 9844.7 | 7234.1 |
| 67.5° | 520.5 | 533.0 | 573.7 | 737.4 | 1129.8 | 2207.6 | 4504.6 | 7144.1 | 9673.1 | 9667.9 | 6969.3 |
| 70° | 439.7 | 443.6 | 462.0 | 497.5 | 656.6 | 1338.8 | 3163.3 | 5923.6 | 8964.0 | 8964.0 | 6332.4 |
| 72.5° | 393.0 | 398.3 | 404.9 | 416.0 | 468.6 | 758.4 | 1887.5 | 4611.1 | 7739.6 | 7790.8 | 5390.0 |
| 75° | 356.8 | 355.6 | 359.5 | 361.5 | 399.6 | 495.5 | 976.0 | 3410.3 | 5987.3 | 5884.8 | 3903.2 |
| 77.5° | 305.6 | 307.6 | 305.6 | 314.2 | 353.0 | 377.3 | 495.5 | 2288.4 | 3628.6 | 3495.8 | 1959.2 |
| 80° | 251.0 | 254.3 | 257.6 | 262.9 | 301.7 | 286.5 | 297.7 | 1043.0 | 1342.1 | 1313.8 | 605.3 |
| 82.5° | 188.6 | 193.3 | 198.5 | 211.0 | 237.2 | 189.3 | 188.0 | 445.6 | 484.4 | 443.6 | 222.8 |
| 85° | 76.3 | 90.1 | 136.1 | 148.5 | 149.2 | 103.9 | 115.6 | 186.0 | 197.8 | 193.3 | 87.4 |
| 87.5° | 17.7 | 21.0 | 44.1 | 66.4 | 61.1 | 38.8 | 42.7 | 60.5 | 69.0 | 63.7 | 29.6 |
| 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-SA2C-840-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 | 1125.8 |
| 2.5° | 1148.2 | 1125.2 | 1085.7 | 1055.5 | 1033.8 | 1014.8 | 1002.9 | 995.7 | 993.1 | 992.4 | 993.1 |
| 5° | 1187.0 | 1146.2 | 1083.8 | 1044.4 | 1022.7 | 1010.1 | 1002.9 | 1002.3 | 1002.9 | 1003.6 | 1001.6 |
| 7.5° | 1240.2 | 1181.7 | 1100.2 | 1063.4 | 1047.0 | 1037.8 | 1034.5 | 1033.2 | 1033.8 | 1033.2 | 1033.2 |
| 10° | 1311.2 | 1231.0 | 1132.4 | 1094.3 | 1080.5 | 1070.0 | 1064.7 | 1061.4 | 1058.8 | 1056.1 | 1054.9 |
| 12.5° | 1389.4 | 1285.6 | 1167.2 | 1130.5 | 1110.7 | 1094.3 | 1082.5 | 1073.9 | 1068.0 | 1062.1 | 1060.8 |
| 15° | 1476.8 | 1343.4 | 1206.0 | 1154.8 | 1126.5 | 1102.2 | 1081.8 | 1068.0 | 1057.5 | 1049.0 | 1048.3 |
| 17.5° | 1560.2 | 1397.9 | 1232.3 | 1166.0 | 1124.5 | 1090.4 | 1063.4 | 1044.4 | 1031.2 | 1020.0 | 1018.7 |
| 20° | 1649.6 | 1449.9 | 1244.2 | 1158.7 | 1104.8 | 1063.4 | 1027.9 | 1004.9 | 989.8 | 977.3 | 975.3 |
| 22.5° | 1739.7 | 1493.9 | 1242.8 | 1135.7 | 1070.6 | 1022.0 | 984.6 | 960.3 | 942.5 | 930.0 | 925.4 |
| 25° | 1825.8 | 1529.4 | 1226.4 | 1098.9 | 1023.3 | 972.7 | 934.6 | 912.2 | 896.4 | 881.4 | 881.4 |
| 27.5° | 1903.4 | 1550.4 | 1195.5 | 1054.2 | 974.6 | 921.4 | 891.2 | 870.9 | 856.4 | 846.6 | 840.6 |
| 30° | 1979.5 | 1560.2 | 1153.4 | 997.7 | 923.4 | 878.1 | 853.8 | 841.9 | 828.8 | 817.6 | 816.3 |
| 32.5° | 2047.9 | 1558.3 | 1100.9 | 942.5 | 874.8 | 842.6 | 832.7 | 823.5 | 809.7 | 793.9 | 790.0 |
| 35° | 2114.3 | 1545.2 | 1038.4 | 882.0 | 834.0 | 821.6 | 824.2 | 811.1 | 786.1 | 766.3 | 763.0 |
| 37.5° | 2186.6 | 1521.5 | 970.1 | 832.7 | 799.9 | 811.6 | 818.2 | 789.4 | 748.6 | 717.7 | 710.5 |
| 40° | 2270.1 | 1494.5 | 899.1 | 783.4 | 772.9 | 802.5 | 802.5 | 749.2 | 693.4 | 674.3 | 669.1 |
| 42.5° | 2368.0 | 1472.2 | 839.9 | 742.0 | 750.6 | 780.1 | 776.8 | 696.0 | 673.0 | 663.1 | 660.5 |
| 45° | 2523.1 | 1464.3 | 778.9 | 705.9 | 732.2 | 753.9 | 726.9 | 677.6 | 664.5 | 656.6 | 654.0 |
| 47.5° | 2768.2 | 1473.5 | 724.9 | 678.9 | 711.1 | 727.5 | 671.0 | 665.1 | 655.9 | 644.7 | 643.4 |
| 50° | 2995.6 | 1464.9 | 686.8 | 663.8 | 692.7 | 696.0 | 648.0 | 650.0 | 644.7 | 632.3 | 629.7 |
| 52.5° | 3181.7 | 1438.0 | 662.5 | 655.9 | 676.9 | 640.8 | 626.4 | 633.6 | 631.6 | 615.9 | 613.2 |
| 55° | 3386.0 | 1421.6 | 650.7 | 655.9 | 666.4 | 592.8 | 605.9 | 616.5 | 613.8 | 602.7 | 602.0 |
| 57.5° | 3633.8 | 1424.9 | 642.1 | 657.9 | 655.9 | 568.5 | 585.6 | 598.1 | 597.4 | 594.2 | 594.2 |
| 60° | 3887.5 | 1426.2 | 629.0 | 657.2 | 643.4 | 549.4 | 564.6 | 582.3 | 583.7 | 585.6 | 585.6 |
| 62.5° | 3971.6 | 1369.0 | 603.3 | 645.4 | 615.9 | 531.0 | 544.9 | 569.2 | 567.8 | 573.1 | 573.7 |
| 65° | 3814.5 | 1210.6 | 565.2 | 618.5 | 580.4 | 517.9 | 529.7 | 552.0 | 544.9 | 558.7 | 561.3 |
| 67.5° | 3472.2 | 1001.6 | 506.0 | 569.8 | 540.9 | 504.1 | 519.9 | 528.4 | 515.3 | 542.2 | 542.9 |
| 70° | 3000.9 | 782.1 | 431.2 | 500.8 | 496.2 | 489.6 | 512.0 | 498.8 | 480.5 | 513.3 | 506.7 |
| 72.5° | 2509.3 | 597.4 | 344.4 | 409.5 | 436.4 | 467.9 | 498.2 | 460.7 | 435.0 | 445.0 | 433.1 |
| 75° | 1884.9 | 441.7 | 276.7 | 320.8 | 363.5 | 437.1 | 485.7 | 414.7 | 375.3 | 366.1 | 363.5 |
| 77.5° | 960.8 | 288.5 | 207.1 | 239.9 | 272.7 | 395.0 | 468.6 | 360.8 | 310.8 | 296.5 | 289.8 |
| 80° | 343.0 | 179.4 | 145.9 | 165.6 | 184.0 | 339.8 | 409.5 | 298.4 | 241.2 | 238.6 | 241.2 |
| 82.5° | 159.0 | 115.6 | 97.9 | 108.4 | 109.1 | 226.7 | 312.2 | 222.8 | 183.3 | 278.6 | 235.3 |
| 85° | 68.4 | 57.9 | 55.2 | 53.9 | 50.0 | 101.2 | 175.5 | 119.6 | 186.6 | 83.4 | 76.9 |
| 87.5° | 20.4 | 23.0 | 20.4 | 15.1 | 11.2 | 11.2 | 17.7 | 6.6 | 4.6 | 3.3 | 3.3 |
| 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)