

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: STREETWORKS

Report Number: P649887

Luminaire Tested: **GLAN-SA4A-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14495.7 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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

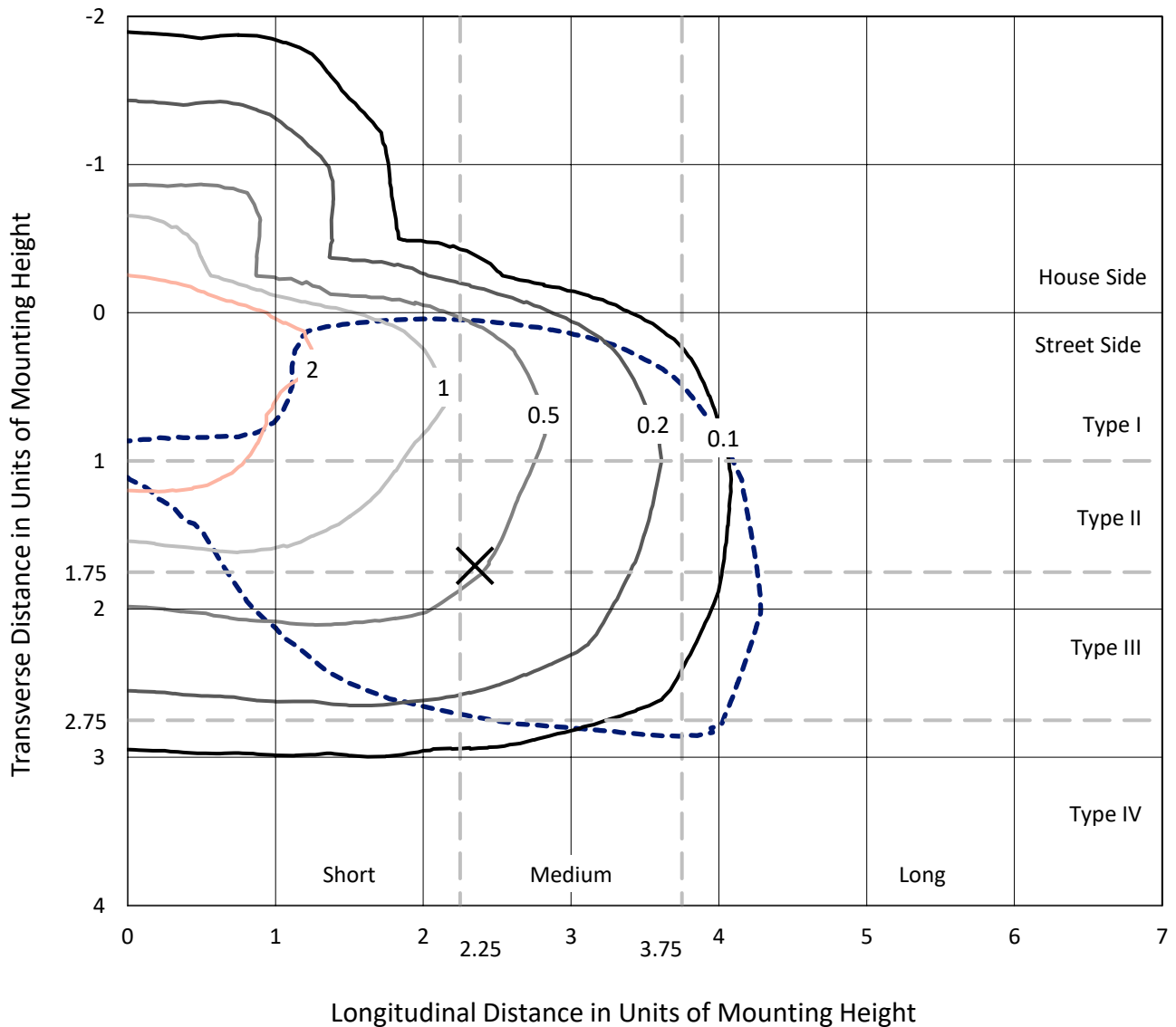




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Iso-Footcandle Lines of Horizontal Illumination

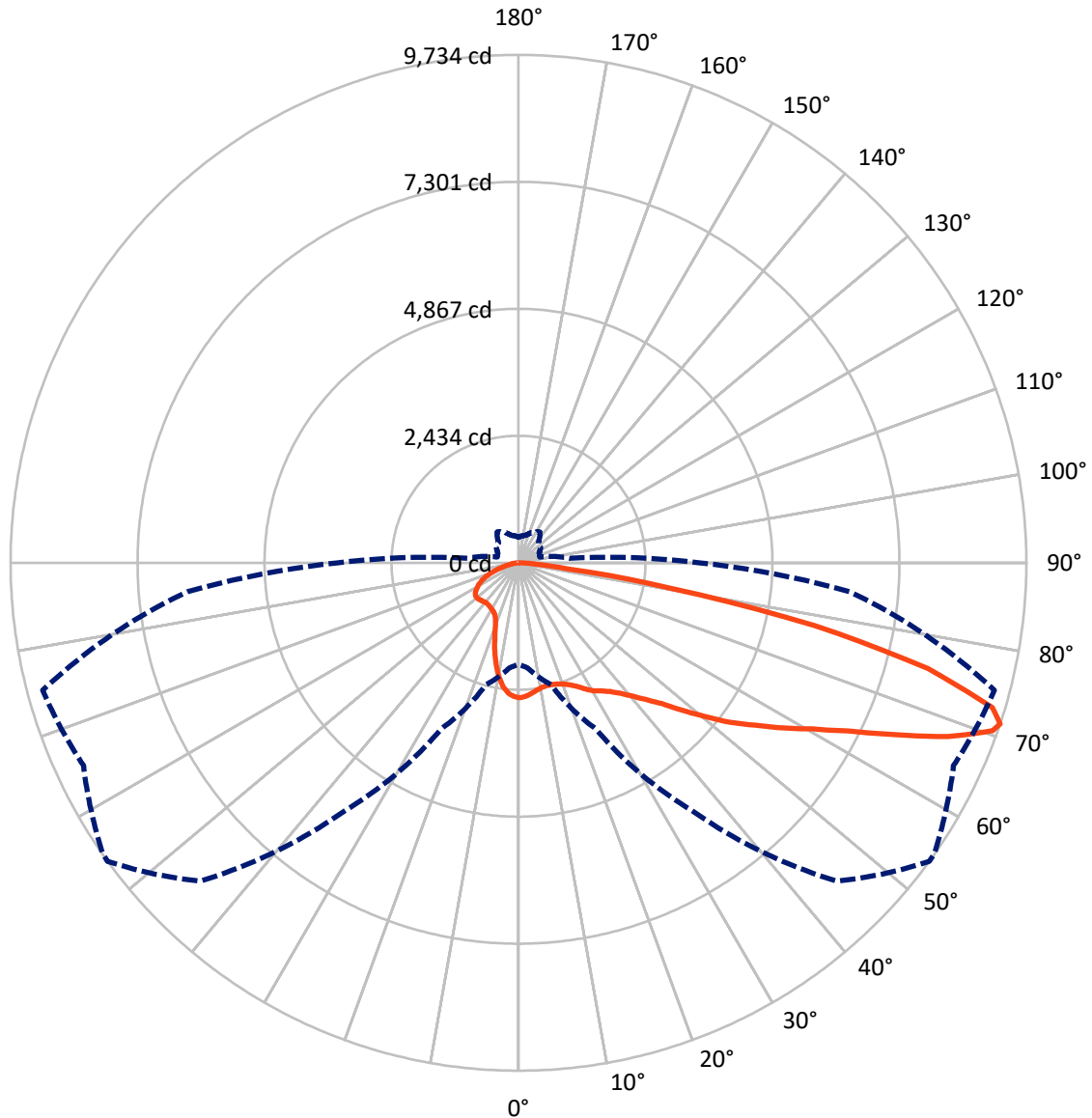
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2617.1 | 0.0 | 2617.1 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 11878.6 | 0.0 | 11878.6 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 14495.7 | 0.0 | 14495.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 230.5 | 1.6 |
| 10°-20° | 608.6 | 4.2 |
| 20°-30° | 1013.3 | 7.0 |
| 30°-40° | 1498.3 | 10.3 |
| 40°-50° | 2110.4 | 14.6 |
| 50°-60° | 2826.0 | 19.5 |
| 60°-70° | 3561.9 | 24.6 |
| 70°-80° | 2432.8 | 16.8 |
| 80°-90° | 213.9 | 1.5 |
| 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° | 14495.7 | 100.0 |
| 0°-180° | 14495.7 | 100.0 |

Coefficient of Utilization



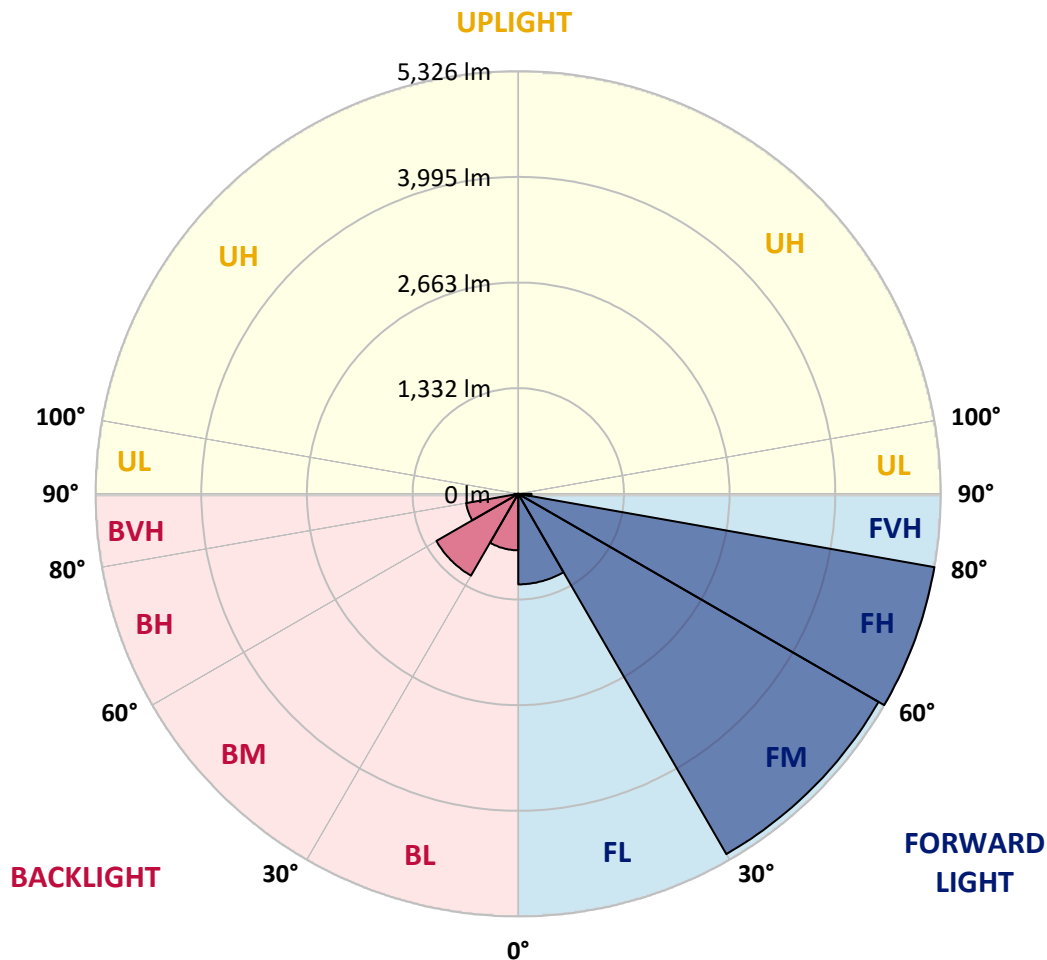
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1141.0 | 7.9 | | | |
| FM (30°-60°) | 5244.0 | 36.2 | | | |
| FH (60°-80°) | 5326.3 | 36.7 | | | G3/7500 |
| FVH (80°-90°) | 167.2 | 1.2 | | | G2/225 |
| BL (0°-30°) | 711.3 | 4.9 | B2/1000 | | |
| BM (30°-60°) | 1190.7 | 8.2 | B2/2500 | | |
| BH (60°-80°) | 668.4 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 |
| 2.5° | 2498.6 | 2510.3 | 2513.4 | 2521.3 | 2537.7 | 2551.0 | 2564.3 | 2562.8 | 2581.6 | 2589.4 | 2596.4 |
| 5° | 2387.4 | 2390.5 | 2402.2 | 2417.9 | 2446.9 | 2483.7 | 2519.7 | 2520.5 | 2566.7 | 2603.5 | 2621.5 |
| 7.5° | 2305.9 | 2316.1 | 2323.9 | 2340.4 | 2370.9 | 2410.9 | 2468.0 | 2472.7 | 2554.9 | 2627.7 | 2666.1 |
| 10° | 2252.7 | 2264.4 | 2273.0 | 2293.4 | 2323.9 | 2368.6 | 2430.4 | 2439.0 | 2546.3 | 2666.1 | 2733.5 |
| 12.5° | 2204.1 | 2215.9 | 2223.7 | 2250.3 | 2290.3 | 2345.1 | 2414.8 | 2425.0 | 2549.4 | 2710.7 | 2807.1 |
| 15° | 2233.9 | 2243.3 | 2240.2 | 2248.0 | 2274.6 | 2337.3 | 2421.0 | 2431.2 | 2561.2 | 2753.8 | 2879.9 |
| 17.5° | 2366.2 | 2374.1 | 2348.2 | 2318.5 | 2305.9 | 2352.1 | 2440.6 | 2451.6 | 2584.7 | 2798.4 | 2954.3 |
| 20° | 2561.2 | 2582.3 | 2526.0 | 2459.4 | 2399.1 | 2405.4 | 2481.3 | 2493.1 | 2617.6 | 2843.1 | 3030.2 |
| 22.5° | 2814.9 | 2830.5 | 2761.6 | 2652.0 | 2540.8 | 2483.7 | 2542.4 | 2549.4 | 2666.9 | 2901.0 | 3113.2 |
| 25° | 3113.2 | 3122.6 | 3027.1 | 2886.1 | 2725.6 | 2617.6 | 2626.2 | 2638.7 | 2748.3 | 2966.8 | 3186.8 |
| 27.5° | 3402.9 | 3432.7 | 3322.3 | 3150.0 | 2938.6 | 2758.5 | 2741.3 | 2749.1 | 2836.8 | 3003.6 | 3237.7 |
| 30° | 3746.7 | 3744.3 | 3627.6 | 3428.0 | 3157.1 | 2912.0 | 2850.1 | 2848.6 | 2884.6 | 3021.6 | 3274.5 |
| 32.5° | 4020.7 | 4052.8 | 3938.5 | 3720.8 | 3406.8 | 3070.9 | 2925.3 | 2922.2 | 2921.4 | 3052.9 | 3329.3 |
| 35° | 4332.3 | 4337.0 | 4232.1 | 4012.9 | 3677.0 | 3270.6 | 3030.2 | 3014.6 | 2996.5 | 3120.3 | 3403.7 |
| 37.5° | 4611.1 | 4633.0 | 4536.7 | 4290.8 | 3942.4 | 3478.1 | 3174.3 | 3164.1 | 3109.3 | 3236.9 | 3522.7 |
| 40° | 4828.8 | 4845.2 | 4787.3 | 4553.1 | 4203.9 | 3702.0 | 3357.5 | 3338.7 | 3272.2 | 3428.0 | 3681.7 |
| 42.5° | 4900.0 | 4933.7 | 4956.4 | 4841.3 | 4504.6 | 3967.5 | 3583.0 | 3559.5 | 3508.6 | 3717.7 | 3864.9 |
| 45° | 4905.5 | 4958.7 | 5078.5 | 5084.0 | 4806.8 | 4285.4 | 3846.1 | 3829.7 | 3825.7 | 4088.8 | 4122.5 |
| 47.5° | 4864.0 | 4918.0 | 5119.3 | 5228.1 | 5076.2 | 4606.4 | 4225.9 | 4200.0 | 4202.4 | 4547.7 | 4411.4 |
| 50° | 4763.8 | 4828.0 | 5072.3 | 5320.5 | 5286.8 | 4939.9 | 4626.7 | 4618.1 | 4666.7 | 5071.5 | 4711.3 |
| 52.5° | 4575.1 | 4652.6 | 5023.7 | 5378.4 | 5443.4 | 5227.3 | 5082.5 | 5058.2 | 5181.1 | 5639.9 | 5039.4 |
| 55° | 4052.8 | 4169.5 | 4846.0 | 5410.5 | 5592.2 | 5502.1 | 5492.7 | 5536.6 | 5699.5 | 6260.1 | 5400.4 |
| 57.5° | 3780.3 | 3868.0 | 4460.0 | 5416.0 | 5780.1 | 5821.6 | 5971.9 | 5982.9 | 6267.9 | 6918.6 | 5808.3 |
| 60° | 3631.6 | 3709.1 | 4248.6 | 5380.0 | 6042.4 | 6217.0 | 6462.1 | 6501.2 | 6823.1 | 7631.9 | 6231.1 |
| 62.5° | 3501.6 | 3568.1 | 4121.7 | 5255.5 | 6338.4 | 6803.5 | 7097.1 | 7115.9 | 7453.4 | 8419.6 | 6648.5 |
| 65° | 3195.4 | 3271.4 | 3866.5 | 5131.0 | 6593.6 | 7536.4 | 7939.6 | 7917.7 | 8124.4 | 9099.2 | 6910.0 |
| 67.5° | 2782.8 | 2879.1 | 3389.6 | 4701.1 | 6719.7 | 8337.4 | 8888.6 | 8861.2 | 8786.8 | 9544.8 | 6985.1 |
| 70° | 2255.8 | 2307.5 | 2779.6 | 3958.1 | 6216.2 | 8757.9 | 9637.9 | 9609.0 | 9197.1 | 9603.5 | 6629.7 |
| 71° | 1941.1 | 2021.7 | 2420.3 | 3515.7 | 5797.3 | 8629.4 | 9734.3 | 9726.4 | 9197.9 | 9441.4 | 6361.9 |
| 72.5° | 1515.1 | 1564.4 | 1916.8 | 2724.1 | 4927.4 | 7899.7 | 9496.2 | 9526.0 | 8998.2 | 8991.2 | 5809.9 |
| 75° | 958.4 | 980.3 | 1202.7 | 1603.6 | 2703.7 | 5594.5 | 8106.4 | 8187.0 | 7989.7 | 7359.4 | 4320.6 |
| 77.5° | 556.7 | 584.9 | 720.4 | 945.1 | 1168.2 | 3036.5 | 5800.5 | 5888.2 | 5551.5 | 4052.0 | 1768.8 |
| 80° | 324.2 | 355.5 | 474.5 | 548.9 | 536.4 | 1126.7 | 2953.5 | 3103.0 | 2403.8 | 1023.4 | 496.4 |
| 82.5° | 180.1 | 201.2 | 333.6 | 334.3 | 285.8 | 368.0 | 929.4 | 972.5 | 685.9 | 412.6 | 202.8 |
| 85° | 130.8 | 148.0 | 215.3 | 195.0 | 137.0 | 158.2 | 323.4 | 339.0 | 277.2 | 173.8 | 65.8 |
| 87.5° | 46.2 | 65.8 | 118.2 | 94.0 | 37.6 | 32.9 | 93.2 | 76.0 | 70.5 | 48.5 | 14.9 |
| 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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 CATALOG NUMBER: GLAN-SA4A-835-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 | 2586.2 |
| 2.5° | 2600.3 | 2601.9 | 2594.1 | 2580.0 | 2565.9 | 2547.9 | 2527.5 | 2511.9 | 2504.8 | 2504.0 | 2503.3 |
| 5° | 2628.5 | 2632.4 | 2602.7 | 2558.8 | 2510.3 | 2450.8 | 2399.9 | 2342.0 | 2327.1 | 2303.6 | 2310.6 |
| 7.5° | 2673.9 | 2671.6 | 2612.9 | 2519.7 | 2406.2 | 2280.1 | 2173.6 | 2111.8 | 2047.5 | 2029.5 | 2030.3 |
| 10° | 2738.9 | 2724.1 | 2612.9 | 2439.8 | 2250.3 | 2063.2 | 1914.4 | 1820.5 | 1769.6 | 1727.3 | 1711.6 |
| 12.5° | 2807.8 | 2770.3 | 2587.8 | 2327.9 | 2049.9 | 1820.5 | 1660.7 | 1533.9 | 1501.0 | 1466.6 | 1467.3 |
| 15° | 2873.6 | 2811.0 | 2538.5 | 2170.5 | 1833.8 | 1561.3 | 1406.3 | 1330.3 | 1320.1 | 1324.1 | 1323.3 |
| 17.5° | 2933.1 | 2839.9 | 2463.3 | 1995.1 | 1581.7 | 1338.9 | 1256.7 | 1262.2 | 1289.6 | 1309.2 | 1311.5 |
| 20° | 2993.4 | 2857.2 | 2351.3 | 1760.2 | 1343.6 | 1204.3 | 1207.4 | 1250.5 | 1292.0 | 1318.6 | 1322.5 |
| 22.5° | 3050.6 | 2865.0 | 2219.8 | 1533.1 | 1171.4 | 1147.1 | 1193.3 | 1239.5 | 1280.2 | 1306.0 | 1310.0 |
| 25° | 3088.2 | 2847.0 | 2033.5 | 1295.9 | 1086.8 | 1126.7 | 1175.3 | 1214.4 | 1248.9 | 1275.5 | 1281.8 |
| 27.5° | 3098.3 | 2789.0 | 1802.5 | 1104.0 | 1047.7 | 1107.2 | 1151.8 | 1180.8 | 1207.4 | 1232.4 | 1237.1 |
| 30° | 3092.8 | 2703.7 | 1548.8 | 991.3 | 1024.9 | 1084.5 | 1118.9 | 1140.0 | 1172.2 | 1191.7 | 1195.6 |
| 32.5° | 3084.2 | 2604.3 | 1284.1 | 931.0 | 1006.2 | 1063.3 | 1083.7 | 1102.5 | 1101.7 | 1093.9 | 1099.3 |
| 35° | 3087.4 | 2485.2 | 1069.6 | 895.0 | 989.7 | 1047.7 | 1064.9 | 1041.4 | 974.1 | 970.9 | 967.8 |
| 37.5° | 3103.8 | 2367.8 | 913.8 | 869.9 | 981.1 | 1045.3 | 1054.7 | 946.6 | 887.1 | 859.7 | 852.7 |
| 40° | 3146.1 | 2230.8 | 811.2 | 851.1 | 980.3 | 1063.3 | 1008.5 | 898.9 | 784.6 | 731.3 | 727.4 |
| 42.5° | 3202.5 | 2096.1 | 748.5 | 839.4 | 989.7 | 1090.7 | 989.7 | 831.5 | 707.0 | 675.7 | 671.0 |
| 45° | 3286.3 | 1941.8 | 714.1 | 833.9 | 1003.8 | 1100.9 | 983.4 | 782.2 | 675.7 | 650.7 | 650.7 |
| 47.5° | 3381.0 | 1794.6 | 695.3 | 830.0 | 1021.8 | 1093.9 | 927.9 | 766.6 | 660.9 | 664.0 | 678.9 |
| 50° | 3475.0 | 1667.0 | 681.2 | 821.4 | 1037.5 | 1089.9 | 905.1 | 765.8 | 664.8 | 704.7 | 731.3 |
| 52.5° | 3583.8 | 1577.0 | 664.0 | 807.3 | 1037.5 | 1064.9 | 898.1 | 781.4 | 675.7 | 687.5 | 699.2 |
| 55° | 3715.3 | 1548.8 | 642.1 | 776.7 | 1018.7 | 1002.2 | 894.2 | 804.1 | 683.6 | 656.2 | 660.9 |
| 57.5° | 3889.2 | 1594.2 | 620.9 | 738.4 | 975.6 | 937.3 | 892.6 | 810.4 | 665.6 | 642.8 | 638.1 |
| 60° | 4091.2 | 1684.2 | 614.7 | 699.2 | 916.9 | 881.7 | 883.2 | 792.4 | 640.5 | 617.0 | 620.9 |
| 62.5° | 4232.9 | 1738.3 | 610.7 | 669.5 | 852.7 | 820.6 | 860.5 | 770.5 | 629.5 | 609.2 | 613.1 |
| 65° | 4232.9 | 1672.5 | 574.7 | 624.1 | 769.7 | 747.0 | 833.1 | 743.1 | 615.4 | 591.9 | 588.0 |
| 67.5° | 4072.4 | 1480.7 | 519.9 | 555.9 | 678.1 | 663.2 | 794.7 | 710.2 | 594.3 | 576.3 | 566.9 |
| 70° | 3654.3 | 1122.8 | 451.0 | 476.1 | 562.2 | 575.5 | 745.4 | 665.6 | 559.1 | 537.1 | 523.0 |
| 71° | 3470.3 | 978.0 | 422.0 | 435.3 | 517.6 | 537.1 | 721.9 | 646.8 | 543.4 | 512.1 | 487.0 |
| 72.5° | 3115.6 | 823.7 | 378.2 | 383.7 | 442.4 | 477.6 | 672.6 | 610.7 | 513.6 | 469.0 | 440.8 |
| 75° | 2367.0 | 601.3 | 304.6 | 301.5 | 327.3 | 379.0 | 569.2 | 544.2 | 450.2 | 389.9 | 373.5 |
| 77.5° | 1022.6 | 327.3 | 227.9 | 230.2 | 222.4 | 287.4 | 447.9 | 467.5 | 386.0 | 317.1 | 302.2 |
| 80° | 310.1 | 188.7 | 155.8 | 158.9 | 148.8 | 192.6 | 315.5 | 366.4 | 310.1 | 246.6 | 226.3 |
| 82.5° | 158.9 | 112.8 | 106.5 | 104.9 | 94.7 | 108.8 | 191.1 | 250.6 | 221.6 | 154.3 | 136.2 |
| 85° | 68.9 | 60.3 | 52.5 | 50.9 | 44.6 | 39.2 | 68.1 | 125.3 | 117.4 | 86.1 | 82.2 |
| 87.5° | 17.2 | 15.7 | 10.2 | 9.4 | 5.5 | 0.8 | 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 |

(END OF REPORT)