

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: P453424

Luminaire Tested: **GALN-SA4C-722-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453424
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-SA4C-722-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA 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: 17623 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

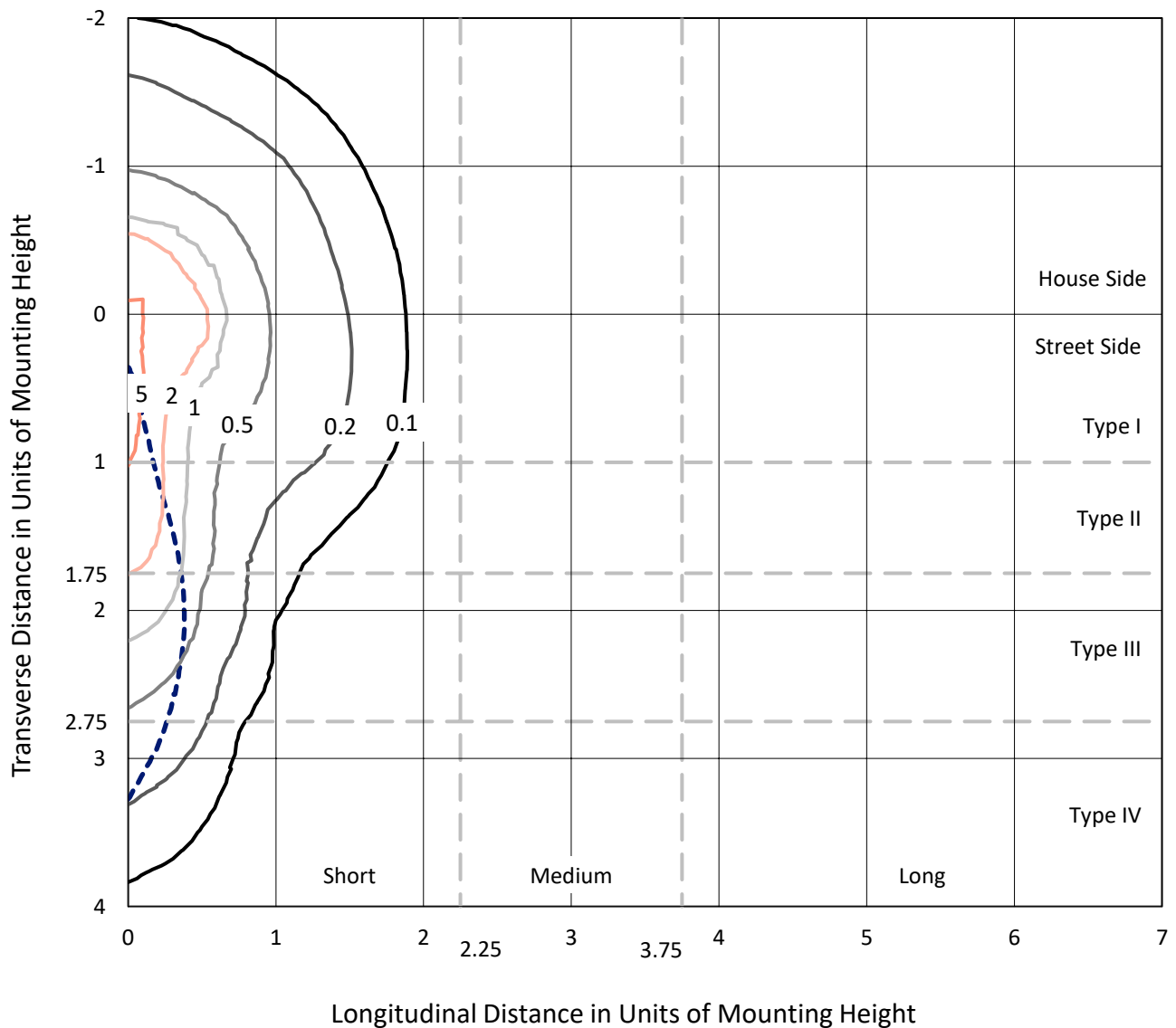
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

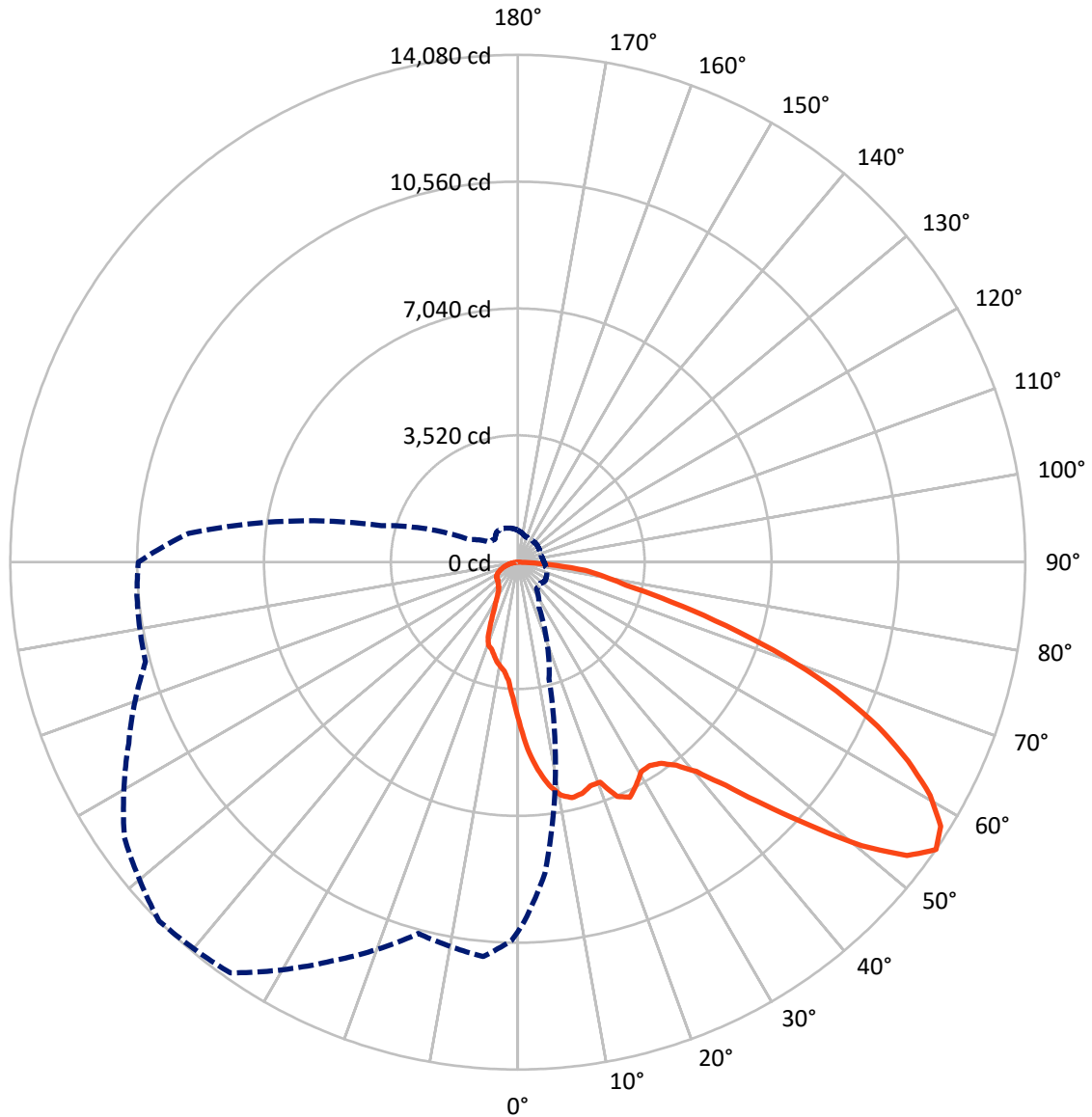
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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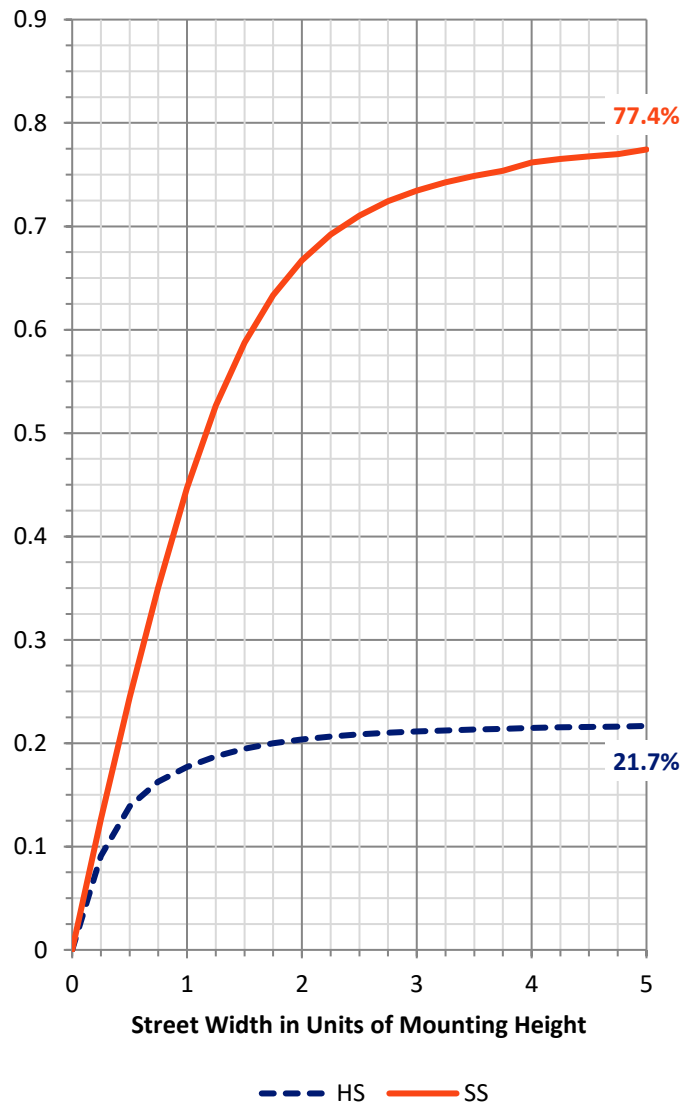
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3855.0 | 0.0 | 3855.0 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 13768.0 | 0.0 | 13768.0 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 17623.0 | 0.0 | 17623.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 374.8 | 2.1 |
| 10°-20° | 994.4 | 5.6 |
| 20°-30° | 1718.0 | 9.7 |
| 30°-40° | 1996.5 | 11.3 |
| 40°-50° | 2785.6 | 15.8 |
| 50°-60° | 3779.7 | 21.4 |
| 60°-70° | 3595.9 | 20.4 |
| 70°-80° | 1942.6 | 11.0 |
| 80°-90° | 435.4 | 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° | 17623.0 | 100.0 |
| 0°-180° | 17623.0 | 100.0 |



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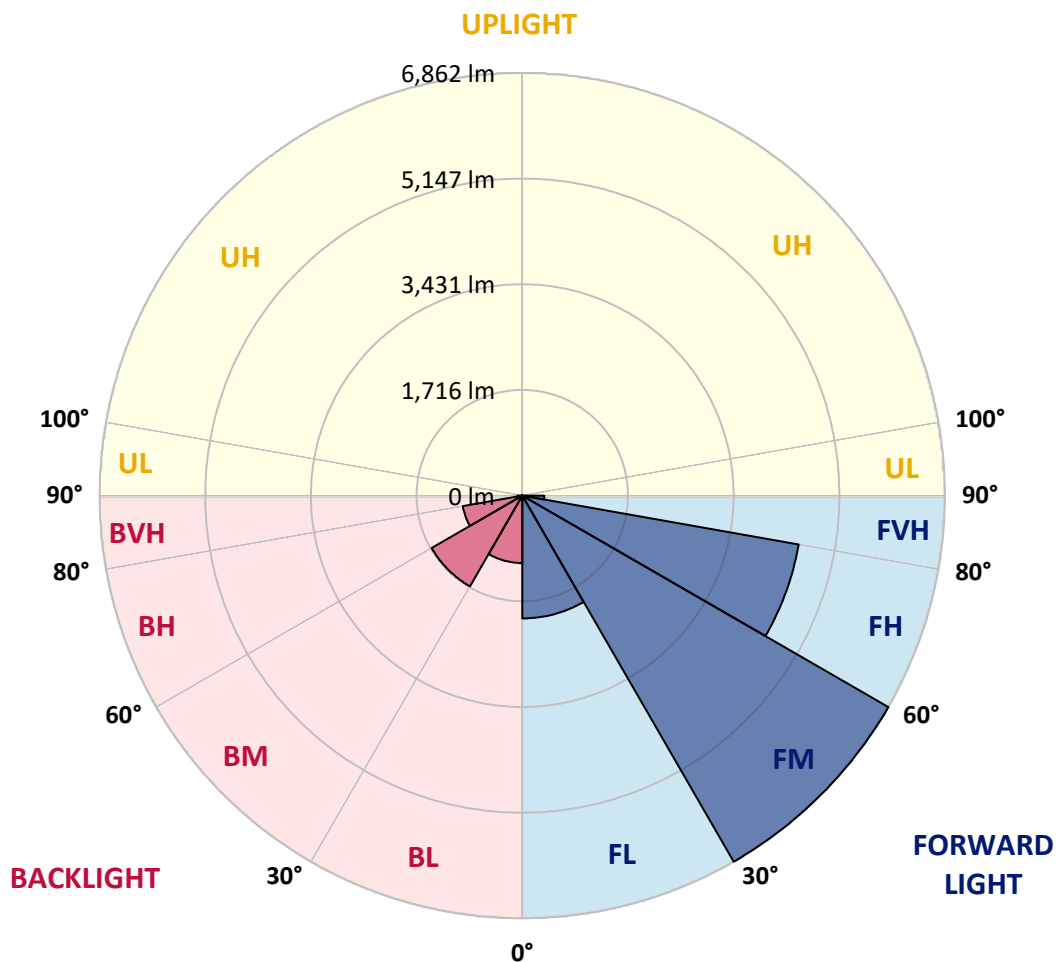
CATALOG NUMBER: GALN-SA4C-722-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1993.2 | 11.3 | | | |
| FM | (30°-60°) | 6862.0 | 38.9 | | | |
| FH | (60°-80°) | 4557.0 | 25.9 | | | G2/5000 |
| FVH | (80°-90°) | 355.8 | 2.0 | | | G3/500 |
| BL | (0°-30°) | 1094.0 | 6.2 | B3/2500 | | |
| BM | (30°-60°) | 1699.8 | 9.6 | B2/2500 | | |
| BH | (60°-80°) | 981.6 | 5.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 79.6 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 |
| 2.5° | 4913.3 | 4894.7 | 4842.4 | 4705.2 | 4566.9 | 4426.2 | 4318.0 | 4183.2 | 4042.5 | 3966.9 | 3870.4 |
| 5° | 4980.8 | 4959.8 | 4836.6 | 4527.3 | 4247.1 | 3953.0 | 3718.1 | 3512.3 | 3428.6 | 3305.4 | 3206.6 |
| 7.5° | 4822.6 | 4813.3 | 4628.5 | 4184.3 | 3800.7 | 3415.8 | 3149.6 | 2984.5 | 2834.5 | 2778.7 | 2790.3 |
| 10° | 4678.5 | 4641.3 | 4409.9 | 3829.7 | 3382.1 | 3069.4 | 2878.7 | 2717.1 | 2611.3 | 2583.4 | 2589.2 |
| 12.5° | 4558.7 | 4508.7 | 4235.5 | 3591.4 | 3199.6 | 2949.6 | 2706.6 | 2538.0 | 2441.5 | 2468.3 | 2559.0 |
| 15° | 4534.3 | 4466.9 | 4162.3 | 3510.0 | 3099.6 | 2777.5 | 2511.3 | 2317.1 | 2245.1 | 2303.2 | 2448.5 |
| 17.5° | 4692.4 | 4607.5 | 4287.8 | 3536.8 | 3004.3 | 2602.0 | 2275.3 | 2053.2 | 1992.8 | 2085.8 | 2275.3 |
| 20° | 5200.5 | 5074.9 | 4679.6 | 3691.4 | 2995.0 | 2514.8 | 2138.1 | 1914.9 | 1940.4 | 2117.2 | 2314.8 |
| 22.5° | 6139.9 | 5951.6 | 5365.6 | 3916.9 | 3043.8 | 2492.7 | 2110.2 | 1993.9 | 2134.6 | 2284.6 | 2414.8 |
| 25° | 6325.9 | 6178.3 | 5488.8 | 3968.1 | 3033.3 | 2477.6 | 2189.3 | 2247.4 | 2404.3 | 2478.7 | 2433.4 |
| 27.5° | 6430.6 | 6262.0 | 5480.7 | 3714.6 | 2712.4 | 2247.4 | 2092.8 | 2189.3 | 2228.8 | 2156.7 | 2033.5 |
| 30° | 6674.7 | 6499.2 | 5619.0 | 3448.4 | 2233.4 | 1667.2 | 1461.4 | 1421.9 | 1448.7 | 1462.6 | 1418.4 |
| 32.5° | 7010.7 | 6837.5 | 5879.5 | 3274.0 | 1931.1 | 1378.9 | 1176.6 | 1120.8 | 1108.0 | 1092.9 | 1075.4 |
| 35° | 7445.5 | 7179.3 | 6135.3 | 3162.4 | 1806.7 | 1275.4 | 1089.4 | 1046.4 | 1028.9 | 1008.0 | 989.4 |
| 37.5° | 7887.4 | 7608.3 | 6458.5 | 3045.0 | 1724.2 | 1203.3 | 1031.3 | 1011.5 | 981.3 | 959.2 | 932.4 |
| 40° | 8357.1 | 8044.3 | 6752.6 | 2942.6 | 1644.0 | 1156.8 | 989.4 | 987.1 | 947.6 | 922.0 | 890.6 |
| 42.5° | 8764.0 | 8441.9 | 7015.4 | 2879.9 | 1582.4 | 1108.0 | 963.8 | 970.8 | 930.1 | 891.7 | 851.1 |
| 45° | 9087.2 | 8771.0 | 7258.4 | 2879.9 | 1532.4 | 1059.2 | 959.2 | 954.5 | 913.8 | 866.2 | 819.7 |
| 47.5° | 9370.9 | 9044.2 | 7495.5 | 2953.1 | 1501.0 | 1018.5 | 933.6 | 941.7 | 899.9 | 839.4 | 794.1 |
| 50° | 9590.6 | 9302.3 | 7815.3 | 3067.0 | 1469.6 | 985.9 | 901.0 | 945.2 | 888.3 | 825.5 | 773.2 |
| 52.5° | 9870.8 | 9612.7 | 8200.1 | 3222.8 | 1442.8 | 949.9 | 872.0 | 945.2 | 887.1 | 826.6 | 769.7 |
| 55° | 10259.1 | 9987.1 | 8664.0 | 3351.9 | 1399.8 | 916.2 | 846.4 | 918.5 | 883.6 | 820.8 | 760.4 |
| 57.5° | 10531.2 | 10327.7 | 8991.9 | 3437.9 | 1338.2 | 873.1 | 823.1 | 892.9 | 868.5 | 798.7 | 732.5 |
| 58° | 10544.0 | 10345.2 | 9039.5 | 3457.7 | 1323.1 | 865.0 | 817.3 | 881.3 | 861.5 | 789.4 | 723.2 |
| 60° | 10397.5 | 10226.6 | 9048.8 | 3429.8 | 1237.0 | 824.3 | 787.1 | 833.6 | 824.3 | 734.8 | 673.2 |
| 62.5° | 9865.0 | 9682.5 | 8673.3 | 3203.1 | 1123.1 | 774.3 | 740.6 | 769.7 | 748.7 | 658.1 | 601.1 |
| 65° | 9108.1 | 8772.1 | 7901.3 | 2847.3 | 1041.7 | 720.8 | 677.8 | 680.1 | 658.1 | 592.9 | 543.0 |
| 67.5° | 8100.1 | 7724.6 | 6689.8 | 2399.7 | 980.1 | 661.5 | 603.4 | 597.6 | 570.9 | 529.0 | 488.3 |
| 70° | 6859.6 | 6602.6 | 5436.5 | 1952.1 | 911.5 | 596.4 | 519.7 | 516.2 | 499.9 | 468.5 | 432.5 |
| 72.5° | 5559.7 | 5233.0 | 4390.1 | 1562.6 | 827.8 | 533.7 | 441.8 | 448.8 | 427.9 | 405.8 | 373.2 |
| 75° | 4103.0 | 3889.0 | 3393.7 | 1253.3 | 715.0 | 465.1 | 368.6 | 370.9 | 361.6 | 338.3 | 312.8 |
| 77.5° | 2702.0 | 2638.0 | 2427.6 | 823.1 | 549.9 | 369.7 | 301.1 | 303.4 | 296.5 | 275.5 | 248.8 |
| 80° | 1818.4 | 1775.4 | 1645.1 | 530.2 | 367.4 | 267.4 | 232.5 | 234.9 | 233.7 | 211.6 | 175.6 |
| 82.5° | 1120.8 | 1102.2 | 1060.3 | 358.1 | 254.6 | 191.8 | 153.5 | 160.4 | 173.2 | 148.8 | 119.8 |
| 85° | 529.0 | 530.2 | 640.6 | 195.3 | 150.0 | 123.2 | 83.7 | 89.5 | 89.5 | 89.5 | 67.4 |
| 87.5° | 68.6 | 72.1 | 88.4 | 82.5 | 54.6 | 46.5 | 30.2 | 25.6 | 22.1 | 29.1 | 20.9 |
| 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: GALN-SA4C-722-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 |
| 2.5° | 3836.7 | 3813.5 | 3763.5 | 3751.8 | 3744.9 | 3764.6 | 3712.3 | 3726.3 | 3703.0 | 3768.1 | 3757.7 |
| 5° | 3212.4 | 3214.7 | 3255.4 | 3282.1 | 3291.4 | 3282.1 | 3247.3 | 3186.8 | 3140.3 | 3121.7 | 3126.3 |
| 7.5° | 2768.2 | 2808.9 | 2878.7 | 2956.6 | 3027.5 | 3048.4 | 3028.7 | 2913.6 | 2788.0 | 2709.0 | 2683.4 |
| 10° | 2620.6 | 2675.2 | 2755.5 | 2817.1 | 2879.9 | 2929.9 | 2940.3 | 2850.8 | 2702.0 | 2514.8 | 2441.5 |
| 12.5° | 2628.7 | 2703.1 | 2779.9 | 2799.6 | 2793.8 | 2813.6 | 2804.3 | 2789.2 | 2691.5 | 2453.2 | 2331.1 |
| 15° | 2552.0 | 2640.4 | 2693.8 | 2683.4 | 2664.8 | 2647.3 | 2622.9 | 2584.5 | 2549.7 | 2382.3 | 2247.4 |
| 17.5° | 2375.3 | 2466.0 | 2510.1 | 2513.6 | 2513.6 | 2509.0 | 2449.7 | 2435.7 | 2431.1 | 2349.7 | 2267.1 |
| 20° | 2407.8 | 2457.8 | 2438.1 | 2405.5 | 2414.8 | 2446.2 | 2411.3 | 2404.3 | 2431.1 | 2467.1 | 2452.0 |
| 22.5° | 2426.4 | 2409.0 | 2260.2 | 2116.0 | 2083.5 | 2181.1 | 2200.9 | 2278.8 | 2386.9 | 2517.1 | 2602.0 |
| 25° | 2311.3 | 2170.6 | 1904.4 | 1741.6 | 1649.8 | 1740.5 | 1859.1 | 2003.2 | 2164.8 | 2332.3 | 2431.1 |
| 27.5° | 1932.3 | 1825.3 | 1634.7 | 1488.2 | 1408.0 | 1421.9 | 1523.1 | 1654.4 | 1804.4 | 1917.2 | 1989.3 |
| 30° | 1455.6 | 1408.0 | 1309.1 | 1259.1 | 1210.3 | 1198.7 | 1241.7 | 1291.7 | 1358.0 | 1371.9 | 1390.5 |
| 32.5° | 1072.0 | 1065.0 | 1070.8 | 1054.5 | 1045.2 | 1044.1 | 1031.3 | 1042.9 | 1049.9 | 1058.0 | 1041.7 |
| 35° | 969.6 | 960.3 | 944.1 | 939.4 | 933.6 | 935.9 | 930.1 | 924.3 | 928.9 | 935.9 | 940.6 |
| 37.5° | 917.3 | 903.4 | 880.1 | 872.0 | 872.0 | 875.5 | 866.2 | 863.8 | 872.0 | 894.1 | 905.7 |
| 40° | 876.6 | 860.4 | 833.6 | 823.1 | 830.1 | 839.4 | 826.6 | 822.0 | 841.8 | 865.0 | 883.6 |
| 42.5° | 838.3 | 825.5 | 799.9 | 788.3 | 794.1 | 811.5 | 792.9 | 789.4 | 815.0 | 840.6 | 862.7 |
| 45° | 805.7 | 792.9 | 769.7 | 763.9 | 766.2 | 782.5 | 769.7 | 769.7 | 794.1 | 822.0 | 841.8 |
| 47.5° | 780.1 | 763.9 | 748.7 | 744.1 | 746.4 | 755.7 | 753.4 | 753.4 | 776.6 | 805.7 | 825.5 |
| 50° | 754.6 | 740.6 | 720.8 | 723.2 | 729.0 | 741.8 | 740.6 | 744.1 | 767.3 | 803.4 | 824.3 |
| 52.5° | 742.9 | 722.0 | 699.9 | 702.2 | 719.7 | 734.8 | 730.1 | 733.6 | 760.4 | 827.8 | 858.0 |
| 55° | 730.1 | 702.2 | 676.7 | 680.1 | 699.9 | 722.0 | 716.2 | 720.8 | 752.2 | 844.1 | 885.9 |
| 57.5° | 705.7 | 673.2 | 645.3 | 647.6 | 676.7 | 699.9 | 690.6 | 696.4 | 733.6 | 826.6 | 870.8 |
| 58° | 695.3 | 667.4 | 640.6 | 641.8 | 669.7 | 695.3 | 684.8 | 689.4 | 727.8 | 822.0 | 863.8 |
| 60° | 651.1 | 634.8 | 611.5 | 612.7 | 639.5 | 661.5 | 655.7 | 660.4 | 697.6 | 788.3 | 819.7 |
| 62.5° | 590.6 | 581.3 | 575.5 | 575.5 | 591.8 | 612.7 | 618.5 | 624.3 | 658.1 | 712.7 | 740.6 |
| 65° | 525.5 | 525.5 | 526.7 | 526.7 | 537.1 | 563.9 | 567.4 | 582.5 | 613.9 | 640.6 | 661.5 |
| 67.5° | 481.3 | 479.0 | 481.3 | 475.5 | 480.2 | 496.4 | 513.9 | 527.8 | 560.4 | 579.0 | 586.0 |
| 70° | 424.4 | 423.2 | 424.4 | 416.2 | 422.0 | 436.0 | 447.6 | 470.9 | 504.6 | 518.5 | 522.0 |
| 72.5° | 368.6 | 368.6 | 370.9 | 365.1 | 365.1 | 380.2 | 388.3 | 413.9 | 445.3 | 453.4 | 454.6 |
| 75° | 310.4 | 313.9 | 313.9 | 305.8 | 308.1 | 317.4 | 327.9 | 348.8 | 377.9 | 383.7 | 383.7 |
| 77.5° | 246.5 | 259.3 | 259.3 | 251.1 | 254.6 | 255.8 | 269.7 | 280.2 | 302.3 | 304.6 | 295.3 |
| 80° | 179.0 | 191.8 | 202.3 | 195.3 | 201.1 | 194.2 | 202.3 | 209.3 | 231.4 | 220.9 | 205.8 |
| 82.5° | 127.9 | 137.2 | 145.3 | 146.5 | 140.7 | 127.9 | 138.4 | 139.5 | 150.0 | 136.0 | 127.9 |
| 85° | 70.9 | 79.1 | 89.5 | 84.9 | 75.6 | 67.4 | 70.9 | 73.2 | 72.1 | 68.6 | 63.9 |
| 87.5° | 18.6 | 19.8 | 22.1 | 16.3 | 15.1 | 12.8 | 17.4 | 17.4 | 19.8 | 20.9 | 19.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 |
| 2.5° | 3765.8 | 3816.9 | 3927.4 | 4011.1 | 4113.4 | 4237.8 | 4384.3 | 4532.0 | 4691.3 | 4741.2 | 4811.0 |
| 5° | 3115.9 | 3243.8 | 3297.2 | 3449.6 | 3600.7 | 3827.4 | 4069.2 | 4349.4 | 4656.4 | 4804.0 | 4945.9 |
| 7.5° | 2662.4 | 2731.0 | 2786.8 | 2898.5 | 3079.8 | 3355.4 | 3658.8 | 4008.8 | 4443.6 | 4658.7 | 4866.8 |
| 10° | 2418.3 | 2425.3 | 2493.9 | 2632.2 | 2790.3 | 3033.3 | 3320.5 | 3712.3 | 4197.1 | 4458.7 | 4702.9 |
| 12.5° | 2256.7 | 2226.5 | 2300.9 | 2445.0 | 2624.1 | 2848.5 | 3112.4 | 3485.6 | 4019.2 | 4287.8 | 4583.1 |
| 15° | 2114.8 | 2067.2 | 2123.0 | 2270.6 | 2447.4 | 2711.3 | 2995.0 | 3390.3 | 3949.5 | 4262.2 | 4590.1 |
| 17.5° | 2118.3 | 1987.0 | 2006.7 | 2131.1 | 2306.7 | 2575.2 | 2919.4 | 3386.8 | 4055.3 | 4415.7 | 4804.0 |
| 20° | 2379.9 | 2169.5 | 2080.0 | 2103.2 | 2273.0 | 2565.9 | 2954.3 | 3549.5 | 4402.9 | 4928.4 | 5343.5 |
| 22.5° | 2636.9 | 2510.1 | 2366.0 | 2318.3 | 2411.3 | 2718.3 | 3176.3 | 3934.4 | 5158.6 | 5950.4 | 6700.3 |
| 25° | 2547.3 | 2655.5 | 2619.4 | 2552.0 | 2572.9 | 2827.5 | 3327.5 | 4250.6 | 5745.8 | 6637.5 | 7342.1 |
| 27.5° | 2038.1 | 2234.6 | 2274.1 | 2273.0 | 2281.1 | 2490.4 | 2992.6 | 4037.9 | 5819.0 | 6768.9 | 7442.1 |
| 30° | 1432.4 | 1449.8 | 1470.7 | 1511.4 | 1548.6 | 1735.8 | 2341.6 | 3544.9 | 5786.5 | 6828.2 | 7502.5 |
| 32.5° | 1033.6 | 1056.8 | 1085.9 | 1141.7 | 1230.1 | 1468.4 | 2048.6 | 3387.9 | 5958.5 | 7073.5 | 7679.2 |
| 35° | 945.2 | 972.0 | 999.9 | 1063.8 | 1147.5 | 1368.4 | 1932.3 | 3322.8 | 6241.1 | 7471.1 | 7996.6 |
| 37.5° | 917.3 | 947.6 | 972.0 | 1018.5 | 1085.9 | 1296.3 | 1826.5 | 3278.6 | 6530.6 | 7892.0 | 8422.2 |
| 40° | 897.6 | 932.4 | 952.2 | 989.4 | 1035.9 | 1230.1 | 1732.3 | 3243.8 | 6810.7 | 8276.8 | 8764.0 |
| 42.5° | 880.1 | 916.2 | 941.7 | 968.5 | 1006.8 | 1170.8 | 1648.6 | 3208.9 | 7053.7 | 8650.0 | 9104.6 |
| 45° | 859.2 | 904.5 | 937.1 | 958.0 | 991.7 | 1120.8 | 1584.7 | 3181.0 | 7330.4 | 8981.4 | 9448.8 |
| 47.5° | 841.8 | 891.7 | 932.4 | 956.9 | 969.6 | 1085.9 | 1533.5 | 3219.4 | 7663.0 | 9327.9 | 9768.5 |
| 50° | 842.9 | 890.6 | 941.7 | 980.1 | 946.4 | 1056.8 | 1502.1 | 3371.7 | 8095.5 | 9739.4 | 10020.8 |
| 52.5° | 880.1 | 938.3 | 978.9 | 988.2 | 913.8 | 1022.0 | 1485.9 | 3637.9 | 8607.0 | 10103.3 | 10275.4 |
| 55° | 922.0 | 982.4 | 1026.6 | 1020.8 | 896.4 | 977.8 | 1482.4 | 3921.6 | 9167.4 | 10527.7 | 10606.8 |
| 57.5° | 906.9 | 995.2 | 1062.7 | 1032.4 | 897.6 | 934.8 | 1467.3 | 4150.6 | 9636.0 | 10845.1 | 10934.6 |
| 58° | 902.2 | 990.6 | 1067.3 | 1030.1 | 894.1 | 922.0 | 1463.8 | 4170.4 | 9701.1 | 10867.2 | 10981.1 |
| 60° | 856.9 | 949.9 | 1063.8 | 1012.7 | 874.3 | 887.1 | 1425.4 | 4234.3 | 9683.6 | 10753.3 | 11009.0 |
| 62.5° | 774.3 | 851.1 | 983.6 | 927.8 | 813.8 | 840.6 | 1339.4 | 4155.3 | 9211.6 | 10204.5 | 10601.0 |
| 65° | 681.3 | 738.3 | 826.6 | 816.2 | 727.8 | 792.9 | 1221.9 | 3842.5 | 8266.4 | 9313.9 | 9731.3 |
| 67.5° | 611.5 | 658.1 | 713.9 | 698.7 | 654.6 | 729.0 | 1095.2 | 3313.5 | 7206.0 | 8244.3 | 8769.8 |
| 70° | 540.6 | 576.7 | 604.6 | 594.1 | 580.2 | 666.2 | 982.4 | 2689.2 | 6189.9 | 7228.1 | 7737.4 |
| 72.5° | 468.5 | 502.3 | 525.5 | 510.4 | 502.3 | 599.9 | 890.6 | 2086.9 | 4888.9 | 5963.2 | 6617.7 |
| 75° | 391.8 | 425.5 | 441.8 | 424.4 | 419.7 | 529.0 | 754.6 | 1559.1 | 3668.1 | 4597.1 | 5162.1 |
| 77.5° | 303.4 | 339.5 | 360.4 | 354.6 | 356.9 | 434.8 | 609.2 | 1067.3 | 2622.9 | 3133.3 | 3728.6 |
| 80° | 212.8 | 252.3 | 266.2 | 260.4 | 276.7 | 331.4 | 430.2 | 677.8 | 1809.1 | 2033.5 | 2453.2 |
| 82.5° | 131.4 | 168.6 | 170.9 | 176.7 | 188.3 | 245.3 | 324.4 | 412.7 | 1135.9 | 1174.3 | 1478.9 |
| 85° | 66.3 | 80.2 | 86.0 | 95.3 | 105.8 | 150.0 | 184.9 | 255.8 | 731.3 | 553.4 | 826.6 |
| 87.5° | 22.1 | 23.3 | 27.9 | 34.9 | 43.0 | 61.6 | 79.1 | 104.6 | 181.4 | 100.0 | 255.8 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 | 4422.7 |
| 2.5° | 4951.7 | 5050.5 | 5122.6 | 5188.9 | 5124.9 | 5119.1 | 5056.3 | 4955.2 | 4913.3 | 4913.3 |
| 5° | 5243.5 | 5474.9 | 5662.1 | 5781.8 | 5730.7 | 5607.4 | 5404.0 | 5144.7 | 5005.2 | 4980.8 |
| 7.5° | 5323.7 | 5780.6 | 6128.3 | 6251.5 | 6165.5 | 5893.4 | 5503.9 | 5066.8 | 4866.8 | 4822.6 |
| 10° | 5274.9 | 5869.0 | 6379.4 | 6574.7 | 6455.0 | 6043.4 | 5512.1 | 4976.1 | 4729.6 | 4678.5 |
| 12.5° | 5223.7 | 5880.6 | 6425.9 | 6708.4 | 6630.5 | 6164.3 | 5571.4 | 4916.8 | 4632.0 | 4558.7 |
| 15° | 5260.9 | 5885.3 | 6368.9 | 6660.8 | 6710.8 | 6309.7 | 5669.0 | 4959.8 | 4612.2 | 4534.3 |
| 17.5° | 5495.8 | 5973.6 | 6287.6 | 6523.6 | 6699.1 | 6507.3 | 5946.9 | 5165.6 | 4788.9 | 4692.4 |
| 20° | 5986.4 | 6185.2 | 6334.1 | 6516.6 | 6799.1 | 6910.7 | 6515.4 | 5730.7 | 5285.4 | 5200.5 |
| 22.5° | 7407.2 | 7371.1 | 7066.5 | 7063.0 | 7472.3 | 7919.9 | 7893.2 | 6879.3 | 6209.7 | 6139.9 |
| 25° | 7939.7 | 7772.3 | 7331.6 | 7224.6 | 7404.9 | 8095.5 | 7995.5 | 7114.2 | 6495.7 | 6325.9 |
| 27.5° | 7731.6 | 7316.5 | 7027.0 | 7002.6 | 6943.3 | 7595.5 | 7836.2 | 7209.5 | 6595.7 | 6430.6 |
| 30° | 7718.8 | 7108.4 | 6694.5 | 6743.3 | 6800.3 | 7423.5 | 7924.6 | 7508.3 | 6851.4 | 6674.7 |
| 32.5° | 7750.2 | 7137.5 | 6718.9 | 6728.2 | 6897.9 | 7449.0 | 8022.2 | 7833.9 | 7187.4 | 7010.7 |
| 35° | 7876.9 | 7302.5 | 6874.7 | 6852.6 | 7117.7 | 7616.5 | 8188.5 | 8345.4 | 7646.7 | 7445.5 |
| 37.5° | 8081.5 | 7631.6 | 7159.5 | 7153.7 | 7538.6 | 7918.7 | 8395.4 | 8861.6 | 8103.6 | 7887.4 |
| 40° | 8382.6 | 8016.4 | 7666.5 | 7635.1 | 8110.6 | 8410.5 | 8664.0 | 9411.6 | 8634.9 | 8357.1 |
| 42.5° | 8746.5 | 8478.0 | 8335.0 | 8459.4 | 8916.3 | 8962.8 | 9082.5 | 9919.6 | 9087.2 | 8764.0 |
| 45° | 9083.7 | 9070.9 | 9269.7 | 9599.9 | 9866.2 | 9587.1 | 9519.7 | 10260.3 | 9438.3 | 9087.2 |
| 47.5° | 9484.8 | 9831.3 | 10431.2 | 10914.9 | 11193.9 | 10313.8 | 9892.9 | 10482.4 | 9694.1 | 9370.9 |
| 50° | 9891.7 | 10741.6 | 11699.7 | 12374.0 | 12433.3 | 11103.2 | 10149.9 | 10691.6 | 9926.6 | 9590.6 |
| 52.5° | 10319.6 | 11468.3 | 12743.7 | 13527.3 | 13412.2 | 11790.3 | 10398.7 | 10833.5 | 10166.1 | 9870.8 |
| 55° | 10691.6 | 11913.6 | 13327.3 | 14079.6 | 13911.0 | 12208.9 | 10667.2 | 10987.0 | 10507.9 | 10259.1 |
| 57.5° | 10899.8 | 11950.8 | 13182.0 | 13838.9 | 13656.4 | 12127.5 | 10790.5 | 11100.9 | 10726.5 | 10531.2 |
| 58° | 10930.0 | 11900.8 | 13053.0 | 13699.4 | 13513.4 | 12058.9 | 10789.3 | 11096.2 | 10740.5 | 10544.0 |
| 60° | 10903.2 | 11576.4 | 12572.8 | 13148.3 | 12953.0 | 11628.7 | 10745.1 | 11009.0 | 10563.8 | 10397.5 |
| 62.5° | 10655.6 | 11013.7 | 11743.8 | 12162.4 | 12106.6 | 10956.7 | 10563.8 | 10680.0 | 10025.4 | 9865.0 |
| 65° | 10330.1 | 10246.4 | 10682.3 | 10978.8 | 11020.7 | 10453.3 | 10383.5 | 9968.5 | 9334.8 | 9108.1 |
| 67.5° | 9934.8 | 9376.7 | 9375.5 | 9544.1 | 9613.9 | 9679.0 | 10008.0 | 9195.3 | 8339.6 | 8100.1 |
| 70° | 9263.9 | 8036.2 | 7666.5 | 7865.3 | 7807.1 | 8357.1 | 9337.2 | 8109.4 | 7139.8 | 6859.6 |
| 72.5° | 8033.8 | 6377.1 | 5785.3 | 6041.1 | 5894.6 | 6553.8 | 8169.9 | 6673.6 | 5903.9 | 5559.7 |
| 75° | 6511.9 | 4770.3 | 4159.9 | 4394.8 | 4304.1 | 4971.5 | 6798.0 | 4847.0 | 4234.3 | 4103.0 |
| 77.5° | 5056.3 | 3456.5 | 3101.9 | 3069.4 | 3136.8 | 3699.5 | 4986.6 | 3272.8 | 2791.5 | 2702.0 |
| 80° | 3248.4 | 2474.1 | 2495.0 | 2453.2 | 2488.1 | 2332.3 | 3027.5 | 2088.1 | 1890.5 | 1818.4 |
| 82.5° | 2138.1 | 1724.2 | 2055.5 | 1897.4 | 1802.1 | 1568.4 | 1985.8 | 1367.3 | 1160.3 | 1120.8 |
| 85° | 1456.8 | 1269.6 | 1155.7 | 883.6 | 1040.6 | 1208.0 | 1489.3 | 736.0 | 583.6 | 529.0 |
| 87.5° | 658.1 | 441.8 | 324.4 | 200.0 | 316.2 | 365.1 | 723.2 | 86.0 | 66.3 | 68.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)