

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: P458905

Luminaire Tested: **GALN-SA4B-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458905
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-SA4B-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 18075 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

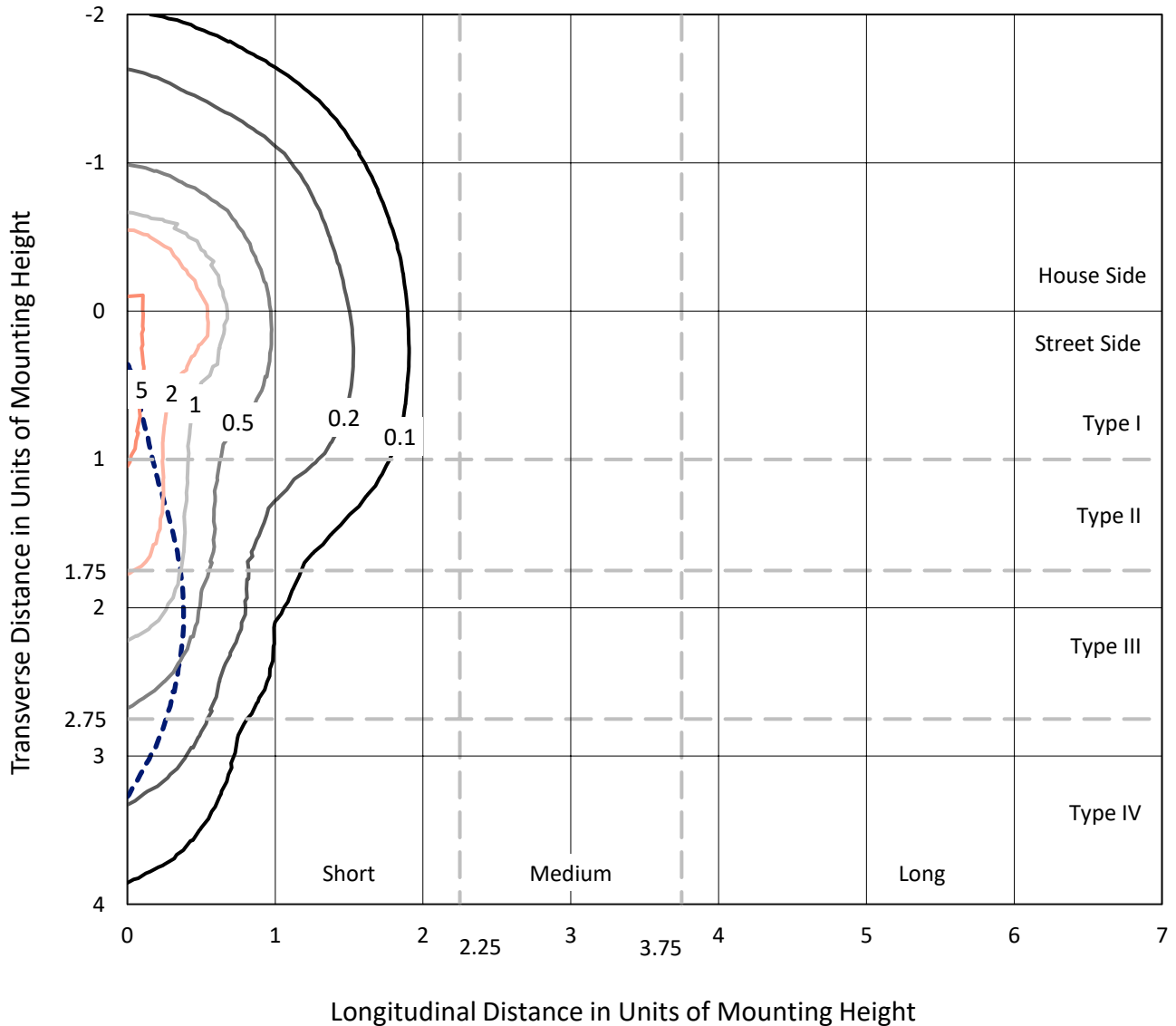
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

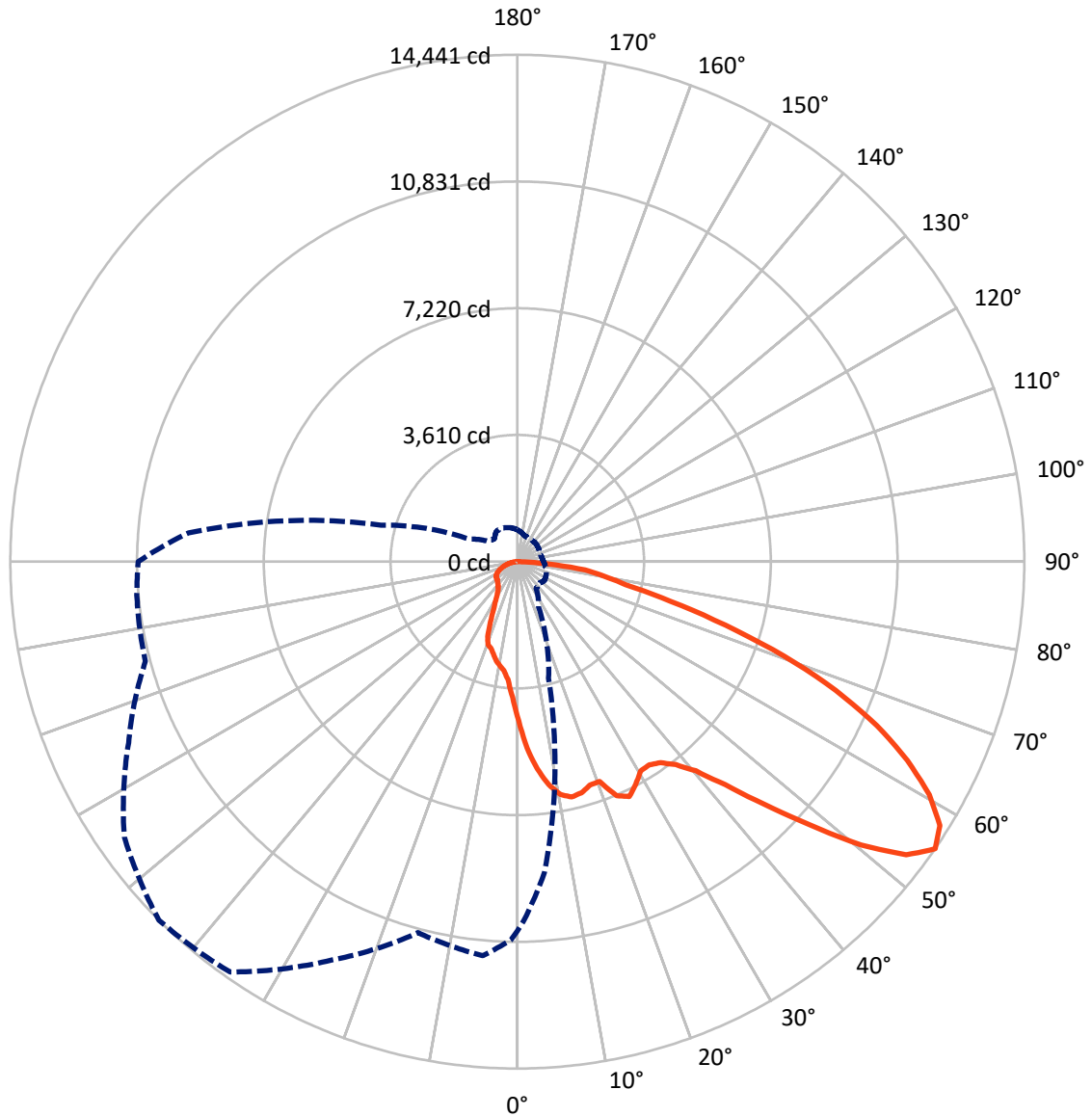
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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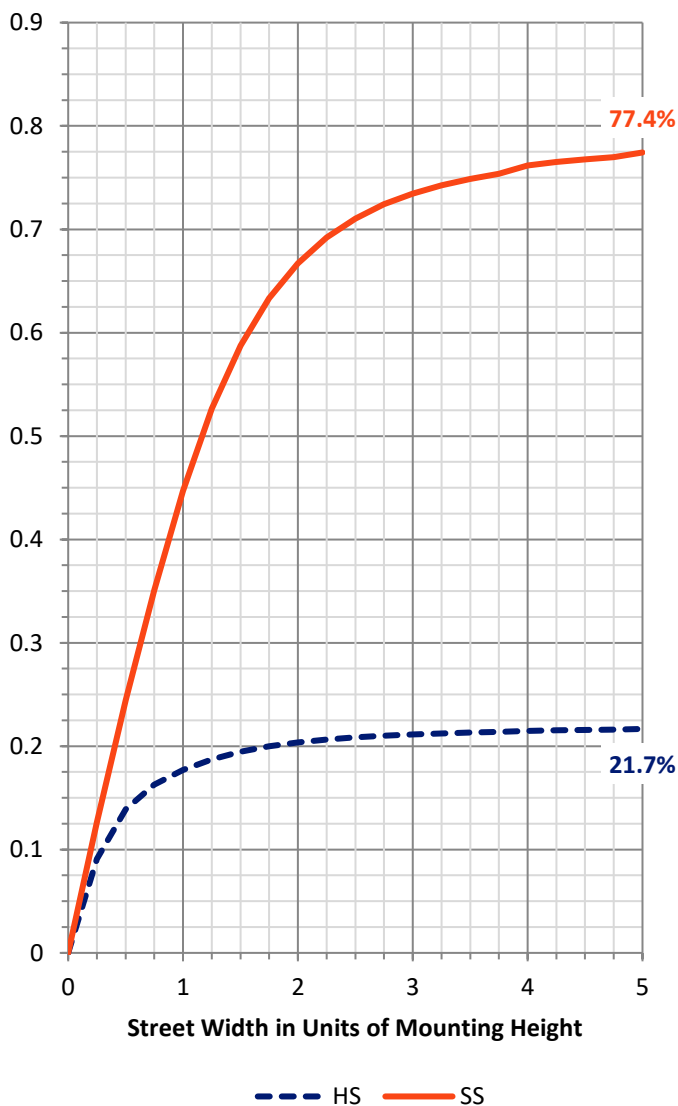
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3953.8 | 0.0 | 3953.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 14121.2 | 0.0 | 14121.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 18075.0 | 0.0 | 18075.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 384.5 | 2.1 |
| 10°-20° | 1020.0 | 5.6 |
| 20°-30° | 1762.0 | 9.7 |
| 30°-40° | 2047.7 | 11.3 |
| 40°-50° | 2857.0 | 15.8 |
| 50°-60° | 3876.7 | 21.4 |
| 60°-70° | 3688.2 | 20.4 |
| 70°-80° | 1992.5 | 11.0 |
| 80°-90° | 446.5 | 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° | 18075.0 | 100.0 |
| 0°-180° | 18075.0 | 100.0 |

Coefficient of Utilization



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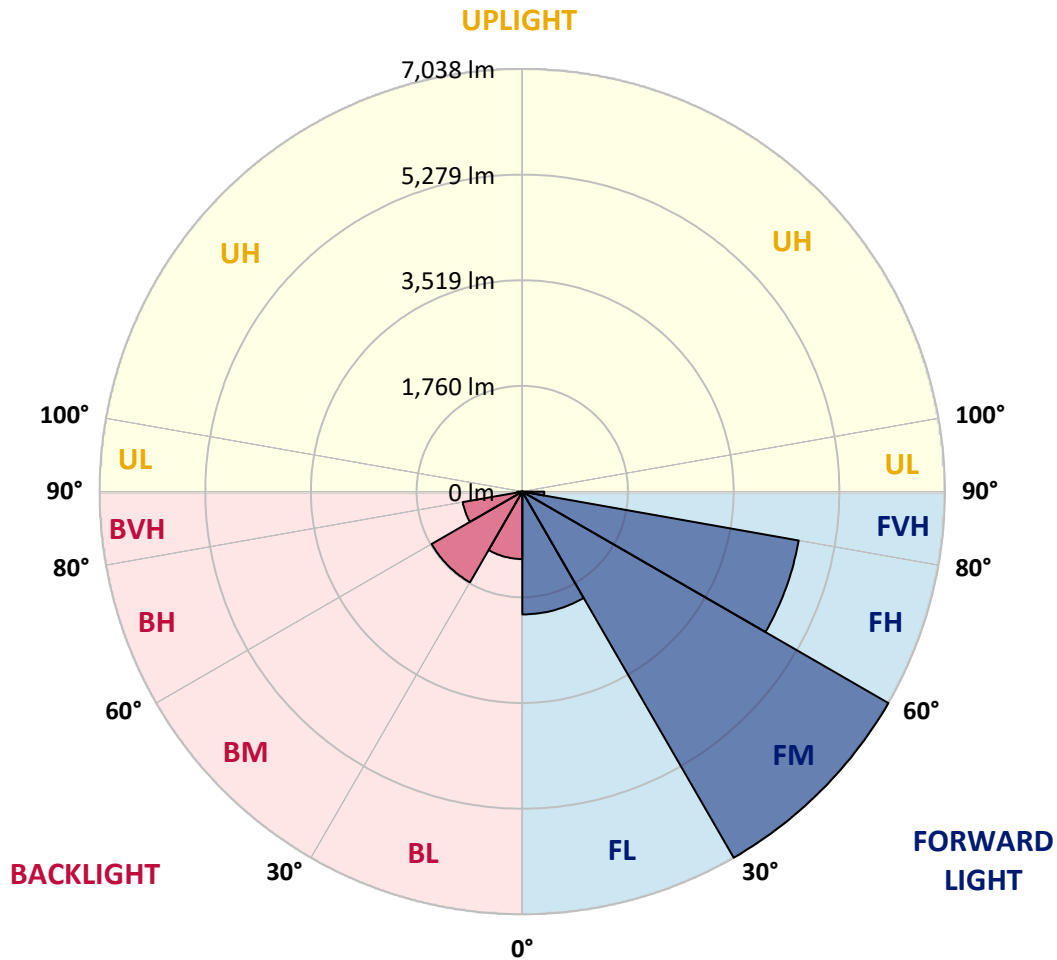
CATALOG NUMBER: GALN-SA4B-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2044.3 | 11.3 | | | |
| FM | (30°-60°) | 7038.0 | 38.9 | | | |
| FH | (60°-80°) | 4673.9 | 25.9 | | | G2/5000 |
| FVH | (80°-90°) | 364.9 | 2.0 | | | G3/500 |
| BL | (0°-30°) | 1122.1 | 6.2 | B3/2500 | | |
| BM | (30°-60°) | 1743.4 | 9.6 | B2/2500 | | |
| BH | (60°-80°) | 1006.7 | 5.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 81.6 | 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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CATALOG NUMBER: GALN-SA4B-735-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 |
| 2.5° | 5039.3 | 5020.3 | 4966.6 | 4825.9 | 4684.0 | 4539.7 | 4428.8 | 4290.5 | 4146.2 | 4068.7 | 3969.7 |
| 5° | 5108.5 | 5087.0 | 4960.6 | 4643.4 | 4356.1 | 4054.4 | 3813.5 | 3602.4 | 3516.6 | 3390.2 | 3288.8 |
| 7.5° | 4946.3 | 4936.8 | 4747.2 | 4291.7 | 3898.2 | 3503.4 | 3230.4 | 3061.0 | 2907.2 | 2850.0 | 2861.9 |
| 10° | 4798.5 | 4760.3 | 4523.0 | 3928.0 | 3468.9 | 3148.1 | 2952.5 | 2786.8 | 2678.3 | 2649.6 | 2655.6 |
| 12.5° | 4675.6 | 4624.4 | 4344.1 | 3683.5 | 3281.7 | 3025.3 | 2776.0 | 2603.1 | 2504.2 | 2531.6 | 2624.6 |
| 15° | 4650.6 | 4581.4 | 4269.0 | 3600.0 | 3179.1 | 2848.8 | 2575.7 | 2376.6 | 2302.6 | 2362.3 | 2511.3 |
| 17.5° | 4812.8 | 4725.7 | 4397.8 | 3627.5 | 3081.3 | 2668.7 | 2333.6 | 2105.9 | 2043.9 | 2139.3 | 2333.6 |
| 20° | 5333.9 | 5205.1 | 4799.7 | 3786.1 | 3071.8 | 2579.3 | 2192.9 | 1964.0 | 1990.2 | 2171.5 | 2374.2 |
| 22.5° | 6297.4 | 6104.2 | 5503.2 | 4017.4 | 3121.9 | 2556.6 | 2164.3 | 2045.1 | 2189.4 | 2343.2 | 2476.7 |
| 25° | 6488.2 | 6336.7 | 5629.6 | 4069.9 | 3111.1 | 2541.1 | 2245.4 | 2305.0 | 2466.0 | 2542.3 | 2495.8 |
| 27.5° | 6595.5 | 6422.6 | 5621.3 | 3809.9 | 2782.0 | 2305.0 | 2146.4 | 2245.4 | 2285.9 | 2212.0 | 2085.6 |
| 30° | 6845.9 | 6665.9 | 5763.2 | 3536.8 | 2290.7 | 1710.0 | 1498.9 | 1458.4 | 1485.8 | 1500.1 | 1454.8 |
| 32.5° | 7190.5 | 7012.9 | 6030.3 | 3358.0 | 1980.7 | 1414.3 | 1206.8 | 1149.5 | 1136.4 | 1120.9 | 1103.0 |
| 35° | 7636.5 | 7363.4 | 6292.6 | 3243.5 | 1853.1 | 1308.1 | 1117.3 | 1073.2 | 1055.3 | 1033.9 | 1014.8 |
| 37.5° | 8089.7 | 7803.5 | 6624.1 | 3123.1 | 1768.4 | 1234.2 | 1057.7 | 1037.4 | 1006.4 | 983.8 | 956.4 |
| 40° | 8571.4 | 8250.6 | 6925.8 | 3018.1 | 1686.1 | 1186.5 | 1014.8 | 1012.4 | 971.9 | 945.6 | 913.4 |
| 42.5° | 8988.8 | 8658.5 | 7195.3 | 2953.7 | 1622.9 | 1136.4 | 988.5 | 995.7 | 954.0 | 914.6 | 872.9 |
| 45° | 9320.3 | 8995.9 | 7444.5 | 2953.7 | 1571.7 | 1086.3 | 983.8 | 979.0 | 937.3 | 888.4 | 840.7 |
| 47.5° | 9611.2 | 9276.1 | 7687.8 | 3028.8 | 1539.5 | 1044.6 | 957.5 | 965.9 | 923.0 | 861.0 | 814.5 |
| 50° | 9836.6 | 9540.9 | 8015.7 | 3145.7 | 1507.3 | 1011.2 | 924.2 | 969.5 | 911.0 | 846.6 | 793.0 |
| 52.5° | 10124.0 | 9859.3 | 8410.4 | 3305.5 | 1479.8 | 974.2 | 894.3 | 969.5 | 909.8 | 847.8 | 789.4 |
| 55° | 10522.3 | 10243.2 | 8886.2 | 3437.9 | 1435.7 | 939.7 | 868.1 | 942.0 | 906.3 | 841.9 | 779.9 |
| 57.5° | 10801.3 | 10592.6 | 9222.5 | 3526.1 | 1372.5 | 895.5 | 844.3 | 915.8 | 890.8 | 819.2 | 751.2 |
| 58° | 10814.4 | 10610.5 | 9271.4 | 3546.4 | 1357.0 | 887.2 | 838.3 | 903.9 | 883.6 | 809.7 | 741.7 |
| 60° | 10664.2 | 10488.9 | 9280.9 | 3517.8 | 1268.8 | 845.5 | 807.3 | 855.0 | 845.5 | 753.6 | 690.4 |
| 62.5° | 10118.0 | 9930.8 | 8895.8 | 3285.2 | 1151.9 | 794.2 | 759.6 | 789.4 | 767.9 | 674.9 | 616.5 |
| 65° | 9341.7 | 8997.1 | 8104.0 | 2920.3 | 1068.4 | 739.3 | 695.2 | 697.6 | 674.9 | 608.2 | 556.9 |
| 67.5° | 8307.9 | 7922.7 | 6861.4 | 2461.2 | 1005.2 | 678.5 | 618.9 | 612.9 | 585.5 | 542.6 | 500.8 |
| 70° | 7035.5 | 6772.0 | 5575.9 | 2002.1 | 934.9 | 611.7 | 533.0 | 529.5 | 512.8 | 480.6 | 443.6 |
| 72.5° | 5702.3 | 5367.3 | 4502.7 | 1602.7 | 849.0 | 547.3 | 453.1 | 460.3 | 438.8 | 416.2 | 382.8 |
| 75° | 4208.2 | 3988.8 | 3480.8 | 1285.5 | 733.4 | 477.0 | 378.0 | 380.4 | 370.9 | 347.0 | 320.8 |
| 77.5° | 2771.3 | 2705.7 | 2489.9 | 844.3 | 564.0 | 379.2 | 308.8 | 311.2 | 304.1 | 282.6 | 255.2 |
| 80° | 1865.0 | 1820.9 | 1687.3 | 543.8 | 376.8 | 274.3 | 238.5 | 240.9 | 239.7 | 217.0 | 180.1 |
| 82.5° | 1149.5 | 1130.5 | 1087.5 | 367.3 | 261.1 | 196.8 | 157.4 | 164.6 | 177.7 | 152.6 | 122.8 |
| 85° | 542.6 | 543.8 | 657.0 | 200.3 | 153.8 | 126.4 | 85.9 | 91.8 | 91.8 | 91.8 | 69.2 |
| 87.5° | 70.4 | 73.9 | 90.6 | 84.7 | 56.0 | 47.7 | 31.0 | 26.2 | 22.7 | 29.8 | 21.5 |
| 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-SA4B-735-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 |
| 2.5° | 3935.1 | 3911.3 | 3860.0 | 3848.1 | 3840.9 | 3861.2 | 3807.5 | 3821.8 | 3798.0 | 3864.8 | 3854.0 |
| 5° | 3294.8 | 3297.2 | 3338.9 | 3366.3 | 3375.9 | 3366.3 | 3330.5 | 3268.5 | 3220.8 | 3201.8 | 3206.5 |
| 7.5° | 2839.2 | 2881.0 | 2952.5 | 3032.4 | 3105.2 | 3126.6 | 3106.4 | 2988.3 | 2859.5 | 2778.4 | 2752.2 |
| 10° | 2687.8 | 2743.9 | 2826.1 | 2889.3 | 2953.7 | 3005.0 | 3015.7 | 2923.9 | 2771.3 | 2579.3 | 2504.2 |
| 12.5° | 2696.2 | 2772.5 | 2851.2 | 2871.4 | 2865.5 | 2885.8 | 2876.2 | 2860.7 | 2760.5 | 2516.1 | 2390.9 |
| 15° | 2617.5 | 2708.1 | 2762.9 | 2752.2 | 2733.1 | 2715.2 | 2690.2 | 2650.8 | 2615.1 | 2443.4 | 2305.0 |
| 17.5° | 2436.2 | 2529.2 | 2574.5 | 2578.1 | 2578.1 | 2573.3 | 2512.5 | 2498.2 | 2493.4 | 2410.0 | 2325.3 |
| 20° | 2469.6 | 2520.9 | 2500.6 | 2467.2 | 2476.7 | 2508.9 | 2473.2 | 2466.0 | 2493.4 | 2530.4 | 2514.9 |
| 22.5° | 2488.7 | 2470.8 | 2318.1 | 2170.3 | 2136.9 | 2237.1 | 2257.3 | 2337.2 | 2448.1 | 2581.7 | 2668.7 |
| 25° | 2370.6 | 2226.3 | 1953.2 | 1786.3 | 1692.1 | 1785.1 | 1906.7 | 2054.6 | 2220.4 | 2392.1 | 2493.4 |
| 27.5° | 1981.9 | 1872.2 | 1676.6 | 1526.3 | 1444.1 | 1458.4 | 1562.1 | 1696.9 | 1850.7 | 1966.4 | 2040.3 |
| 30° | 1493.0 | 1444.1 | 1342.7 | 1291.4 | 1241.4 | 1229.4 | 1273.5 | 1324.8 | 1392.8 | 1407.1 | 1426.2 |
| 32.5° | 1099.4 | 1092.3 | 1098.3 | 1081.6 | 1072.0 | 1070.8 | 1057.7 | 1069.6 | 1076.8 | 1085.1 | 1068.4 |
| 35° | 994.5 | 985.0 | 968.3 | 963.5 | 957.5 | 959.9 | 954.0 | 948.0 | 952.8 | 959.9 | 964.7 |
| 37.5° | 940.9 | 926.5 | 902.7 | 894.3 | 894.3 | 897.9 | 888.4 | 886.0 | 894.3 | 917.0 | 928.9 |
| 40° | 899.1 | 882.4 | 855.0 | 844.3 | 851.4 | 861.0 | 847.8 | 843.1 | 863.3 | 887.2 | 906.3 |
| 42.5° | 859.8 | 846.6 | 820.4 | 808.5 | 814.5 | 832.3 | 813.3 | 809.7 | 835.9 | 862.1 | 884.8 |
| 45° | 826.4 | 813.3 | 789.4 | 783.4 | 785.8 | 802.5 | 789.4 | 789.4 | 814.5 | 843.1 | 863.3 |
| 47.5° | 800.1 | 783.4 | 767.9 | 763.2 | 765.6 | 775.1 | 772.7 | 772.7 | 796.6 | 826.4 | 846.6 |
| 50° | 773.9 | 759.6 | 739.3 | 741.7 | 747.7 | 760.8 | 759.6 | 763.2 | 787.0 | 824.0 | 845.5 |
| 52.5° | 762.0 | 740.5 | 717.9 | 720.2 | 738.1 | 753.6 | 748.9 | 752.4 | 779.9 | 849.0 | 880.0 |
| 55° | 748.9 | 720.2 | 694.0 | 697.6 | 717.9 | 740.5 | 734.6 | 739.3 | 771.5 | 865.7 | 908.7 |
| 57.5° | 723.8 | 690.4 | 661.8 | 664.2 | 694.0 | 717.9 | 708.3 | 714.3 | 752.4 | 847.8 | 893.2 |
| 58° | 713.1 | 684.5 | 657.0 | 658.2 | 686.9 | 713.1 | 702.4 | 707.1 | 746.5 | 843.1 | 886.0 |
| 60° | 667.8 | 651.1 | 627.2 | 628.4 | 655.9 | 678.5 | 672.5 | 677.3 | 715.5 | 808.5 | 840.7 |
| 62.5° | 605.8 | 596.2 | 590.3 | 590.3 | 607.0 | 628.4 | 634.4 | 640.4 | 674.9 | 731.0 | 759.6 |
| 65° | 539.0 | 539.0 | 540.2 | 540.2 | 550.9 | 578.3 | 581.9 | 597.4 | 629.6 | 657.0 | 678.5 |
| 67.5° | 493.7 | 491.3 | 493.7 | 487.7 | 492.5 | 509.2 | 527.1 | 541.4 | 574.8 | 593.8 | 601.0 |
| 70° | 435.2 | 434.1 | 435.2 | 426.9 | 432.9 | 447.2 | 459.1 | 482.9 | 517.5 | 531.8 | 535.4 |
| 72.5° | 378.0 | 378.0 | 380.4 | 374.4 | 374.4 | 389.9 | 398.3 | 424.5 | 456.7 | 465.1 | 466.3 |
| 75° | 318.4 | 322.0 | 322.0 | 313.6 | 316.0 | 325.5 | 336.3 | 357.7 | 387.5 | 393.5 | 393.5 |
| 77.5° | 252.8 | 265.9 | 265.9 | 257.6 | 261.1 | 262.3 | 276.7 | 287.4 | 310.0 | 312.4 | 302.9 |
| 80° | 183.6 | 196.8 | 207.5 | 200.3 | 206.3 | 199.1 | 207.5 | 214.6 | 237.3 | 226.6 | 211.1 |
| 82.5° | 131.2 | 140.7 | 149.1 | 150.2 | 144.3 | 131.2 | 141.9 | 143.1 | 153.8 | 139.5 | 131.2 |
| 85° | 72.7 | 81.1 | 91.8 | 87.0 | 77.5 | 69.2 | 72.7 | 75.1 | 73.9 | 70.4 | 65.6 |
| 87.5° | 19.1 | 20.3 | 22.7 | 16.7 | 15.5 | 13.1 | 17.9 | 17.9 | 20.3 | 21.5 | 20.3 |
| 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-SA4B-735-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 |
| 2.5° | 3862.4 | 3914.8 | 4028.1 | 4114.0 | 4218.9 | 4346.5 | 4496.8 | 4648.2 | 4811.6 | 4862.9 | 4934.4 |
| 5° | 3195.8 | 3327.0 | 3381.8 | 3538.0 | 3693.0 | 3925.6 | 4173.6 | 4461.0 | 4775.8 | 4927.2 | 5072.7 |
| 7.5° | 2730.7 | 2801.1 | 2858.3 | 2972.8 | 3158.8 | 3441.4 | 3752.7 | 4111.6 | 4557.6 | 4778.2 | 4991.6 |
| 10° | 2480.3 | 2487.5 | 2557.8 | 2699.7 | 2861.9 | 3111.1 | 3405.7 | 3807.5 | 4304.8 | 4573.1 | 4823.5 |
| 12.5° | 2314.6 | 2283.6 | 2359.9 | 2507.7 | 2691.4 | 2921.5 | 3192.2 | 3575.0 | 4122.3 | 4397.8 | 4700.7 |
| 15° | 2169.1 | 2120.2 | 2177.4 | 2328.9 | 2510.1 | 2780.8 | 3071.8 | 3477.2 | 4050.8 | 4371.6 | 4707.8 |
| 17.5° | 2172.7 | 2037.9 | 2058.2 | 2185.8 | 2365.8 | 2641.3 | 2994.3 | 3473.6 | 4159.3 | 4529.0 | 4927.2 |
| 20° | 2441.0 | 2225.1 | 2133.3 | 2157.2 | 2331.3 | 2631.8 | 3030.0 | 3640.6 | 4515.8 | 5054.8 | 5480.5 |
| 22.5° | 2704.5 | 2574.5 | 2426.7 | 2377.8 | 2473.2 | 2788.0 | 3257.8 | 4035.3 | 5290.9 | 6103.0 | 6872.1 |
| 25° | 2612.7 | 2723.6 | 2686.6 | 2617.5 | 2638.9 | 2900.1 | 3412.8 | 4359.6 | 5893.1 | 6807.8 | 7530.4 |
| 27.5° | 2090.4 | 2291.9 | 2332.5 | 2331.3 | 2339.6 | 2554.2 | 3069.4 | 4141.4 | 5968.3 | 6942.5 | 7632.9 |
| 30° | 1469.1 | 1487.0 | 1508.5 | 1550.2 | 1588.4 | 1780.3 | 2401.6 | 3635.8 | 5934.9 | 7003.3 | 7694.9 |
| 32.5° | 1060.1 | 1083.9 | 1113.8 | 1171.0 | 1261.6 | 1506.1 | 2101.1 | 3474.8 | 6111.4 | 7254.9 | 7876.2 |
| 35° | 969.5 | 996.9 | 1025.5 | 1091.1 | 1177.0 | 1403.5 | 1981.9 | 3408.1 | 6401.1 | 7662.7 | 8201.7 |
| 37.5° | 940.9 | 971.9 | 996.9 | 1044.6 | 1113.8 | 1329.6 | 1873.4 | 3362.7 | 6698.0 | 8094.4 | 8638.2 |
| 40° | 920.6 | 956.4 | 976.6 | 1014.8 | 1062.5 | 1261.6 | 1776.8 | 3327.0 | 6985.4 | 8489.1 | 8988.8 |
| 42.5° | 902.7 | 939.7 | 965.9 | 993.3 | 1032.7 | 1200.8 | 1690.9 | 3291.2 | 7234.7 | 8871.9 | 9338.2 |
| 45° | 881.2 | 927.7 | 961.1 | 982.6 | 1017.2 | 1149.5 | 1625.3 | 3262.6 | 7518.5 | 9211.8 | 9691.1 |
| 47.5° | 863.3 | 914.6 | 956.4 | 981.4 | 994.5 | 1113.8 | 1572.9 | 3301.9 | 7859.5 | 9567.1 | 10019.1 |
| 50° | 864.5 | 913.4 | 965.9 | 1005.2 | 970.7 | 1083.9 | 1540.7 | 3458.1 | 8303.1 | 9989.2 | 10277.8 |
| 52.5° | 902.7 | 962.3 | 1004.1 | 1013.6 | 937.3 | 1048.2 | 1524.0 | 3731.2 | 8827.8 | 10362.5 | 10539.0 |
| 55° | 945.6 | 1007.6 | 1052.9 | 1047.0 | 919.4 | 1002.9 | 1520.4 | 4022.2 | 9402.5 | 10797.7 | 10878.8 |
| 57.5° | 930.1 | 1020.7 | 1089.9 | 1058.9 | 920.6 | 958.7 | 1504.9 | 4257.1 | 9883.1 | 11123.3 | 11215.1 |
| 58° | 925.3 | 1016.0 | 1094.7 | 1056.5 | 917.0 | 945.6 | 1501.3 | 4277.4 | 9949.9 | 11145.9 | 11262.8 |
| 60° | 878.8 | 974.2 | 1091.1 | 1038.6 | 896.7 | 909.8 | 1462.0 | 4342.9 | 9932.0 | 11029.1 | 11291.4 |
| 62.5° | 794.2 | 872.9 | 1008.8 | 951.6 | 834.7 | 862.1 | 1373.7 | 4261.9 | 9447.9 | 10466.2 | 10872.9 |
| 65° | 698.8 | 757.2 | 847.8 | 837.1 | 746.5 | 813.3 | 1253.3 | 3941.1 | 8478.4 | 9552.8 | 9980.9 |
| 67.5° | 627.2 | 674.9 | 732.2 | 716.7 | 671.4 | 747.7 | 1123.3 | 3398.5 | 7390.9 | 8455.7 | 8994.7 |
| 70° | 554.5 | 591.5 | 620.1 | 609.3 | 595.0 | 683.3 | 1007.6 | 2758.2 | 6348.7 | 7413.5 | 7935.8 |
| 72.5° | 480.6 | 515.1 | 539.0 | 523.5 | 515.1 | 615.3 | 913.4 | 2140.5 | 5014.3 | 6116.1 | 6787.5 |
| 75° | 401.9 | 436.4 | 453.1 | 435.2 | 430.5 | 542.6 | 773.9 | 1599.1 | 3762.2 | 4715.0 | 5294.5 |
| 77.5° | 311.2 | 348.2 | 369.7 | 363.7 | 366.1 | 446.0 | 624.8 | 1094.7 | 2690.2 | 3213.7 | 3824.2 |
| 80° | 218.2 | 258.8 | 273.1 | 267.1 | 283.8 | 339.9 | 441.2 | 695.2 | 1855.5 | 2085.6 | 2516.1 |
| 82.5° | 134.7 | 172.9 | 175.3 | 181.3 | 193.2 | 251.6 | 332.7 | 423.3 | 1165.0 | 1204.4 | 1516.8 |
| 85° | 68.0 | 82.3 | 88.2 | 97.8 | 108.5 | 153.8 | 189.6 | 262.3 | 750.1 | 567.6 | 847.8 |
| 87.5° | 22.7 | 23.8 | 28.6 | 35.8 | 44.1 | 63.2 | 81.1 | 107.3 | 186.0 | 102.6 | 262.3 |
| 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° | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 | 4536.1 |
| 2.5° | 5078.7 | 5180.0 | 5254.0 | 5322.0 | 5256.4 | 5250.4 | 5186.0 | 5082.3 | 5039.3 | 5039.3 |
| 5° | 5378.0 | 5615.3 | 5807.3 | 5930.1 | 5877.6 | 5751.2 | 5542.6 | 5276.6 | 5133.5 | 5108.5 |
| 7.5° | 5460.3 | 5928.9 | 6285.5 | 6411.9 | 6323.6 | 6044.6 | 5645.1 | 5196.7 | 4991.6 | 4946.3 |
| 10° | 5410.2 | 6019.5 | 6543.0 | 6743.4 | 6620.5 | 6198.4 | 5653.5 | 5103.7 | 4850.9 | 4798.5 |
| 12.5° | 5357.7 | 6031.5 | 6590.7 | 6880.5 | 6800.6 | 6322.4 | 5714.3 | 5042.9 | 4750.8 | 4675.6 |
| 15° | 5395.9 | 6036.2 | 6532.3 | 6831.6 | 6882.9 | 6471.5 | 5814.4 | 5087.0 | 4730.5 | 4650.6 |
| 17.5° | 5636.8 | 6126.9 | 6448.8 | 6690.9 | 6871.0 | 6674.2 | 6099.4 | 5298.1 | 4911.7 | 4812.8 |
| 20° | 6140.0 | 6343.9 | 6496.5 | 6683.7 | 6973.5 | 7088.0 | 6682.5 | 5877.6 | 5420.9 | 5333.9 |
| 22.5° | 7597.2 | 7560.2 | 7247.8 | 7244.2 | 7663.9 | 8123.0 | 8095.6 | 7055.8 | 6368.9 | 6297.4 |
| 25° | 8143.3 | 7971.6 | 7519.7 | 7409.9 | 7594.8 | 8303.1 | 8200.5 | 7296.7 | 6662.3 | 6488.2 |
| 27.5° | 7929.9 | 7504.2 | 7207.2 | 7182.2 | 7121.4 | 7790.3 | 8037.2 | 7394.4 | 6764.8 | 6595.5 |
| 30° | 7916.7 | 7290.7 | 6866.2 | 6916.3 | 6974.7 | 7613.9 | 8127.8 | 7700.9 | 7027.2 | 6845.9 |
| 32.5° | 7948.9 | 7320.5 | 6891.2 | 6900.8 | 7074.9 | 7640.1 | 8228.0 | 8034.8 | 7371.8 | 7190.5 |
| 35° | 8078.9 | 7489.8 | 7051.0 | 7028.4 | 7300.2 | 7811.8 | 8398.5 | 8559.5 | 7842.8 | 7636.5 |
| 37.5° | 8288.8 | 7827.3 | 7343.2 | 7337.2 | 7731.9 | 8121.8 | 8610.8 | 9088.9 | 8311.4 | 8089.7 |
| 40° | 8597.6 | 8222.0 | 7863.1 | 7830.9 | 8318.6 | 8626.3 | 8886.2 | 9653.0 | 8856.4 | 8571.4 |
| 42.5° | 8970.9 | 8695.4 | 8548.7 | 8676.3 | 9145.0 | 9192.7 | 9315.5 | 10174.1 | 9320.3 | 8988.8 |
| 45° | 9316.7 | 9303.6 | 9507.5 | 9846.1 | 10119.2 | 9833.0 | 9763.9 | 10523.5 | 9680.4 | 9320.3 |
| 47.5° | 9728.1 | 10083.4 | 10698.8 | 11194.8 | 11481.0 | 10578.3 | 10146.6 | 10751.2 | 9942.7 | 9611.2 |
| 50° | 10145.5 | 11017.1 | 11999.7 | 12691.4 | 12752.2 | 11388.0 | 10410.2 | 10965.9 | 10181.2 | 9836.6 |
| 52.5° | 10584.3 | 11762.4 | 13070.6 | 13874.3 | 13756.2 | 12092.7 | 10665.4 | 11111.3 | 10426.9 | 10124.0 |
| 55° | 10965.9 | 12219.1 | 13669.2 | 14440.7 | 14267.8 | 12522.0 | 10940.8 | 11268.7 | 10777.5 | 10522.3 |
| 57.5° | 11179.3 | 12257.3 | 13520.1 | 14193.9 | 14006.6 | 12438.6 | 11067.2 | 11385.6 | 11001.6 | 10801.3 |
| 58° | 11210.3 | 12206.0 | 13387.8 | 14050.8 | 13860.0 | 12368.2 | 11066.0 | 11380.8 | 11015.9 | 10814.4 |
| 60° | 11182.9 | 11873.3 | 12895.3 | 13485.5 | 13285.2 | 11927.0 | 11020.7 | 11291.4 | 10834.7 | 10664.2 |
| 62.5° | 10928.9 | 11296.2 | 12045.0 | 12474.3 | 12417.1 | 11237.7 | 10834.7 | 10953.9 | 10282.6 | 10118.0 |
| 65° | 10595.0 | 10509.2 | 10956.3 | 11260.4 | 11303.3 | 10721.4 | 10649.9 | 10224.2 | 9574.3 | 9341.7 |
| 67.5° | 10189.6 | 9617.2 | 9616.0 | 9788.9 | 9860.5 | 9927.2 | 10264.7 | 9431.2 | 8553.5 | 8307.9 |
| 70° | 9501.5 | 8242.3 | 7863.1 | 8067.0 | 8007.4 | 8571.4 | 9576.6 | 8317.4 | 7322.9 | 7035.5 |
| 72.5° | 8239.9 | 6540.6 | 5933.7 | 6196.0 | 6045.8 | 6721.9 | 8379.4 | 6844.7 | 6055.3 | 5702.3 |
| 75° | 6679.0 | 4892.7 | 4266.6 | 4507.5 | 4414.5 | 5099.0 | 6972.3 | 4971.4 | 4342.9 | 4208.2 |
| 77.5° | 5186.0 | 3545.2 | 3181.5 | 3148.1 | 3217.3 | 3794.4 | 5114.5 | 3356.8 | 2863.1 | 2771.3 |
| 80° | 3331.7 | 2537.6 | 2559.0 | 2516.1 | 2551.9 | 2392.1 | 3105.2 | 2141.7 | 1938.9 | 1865.0 |
| 82.5° | 2192.9 | 1768.4 | 2108.3 | 1946.1 | 1848.3 | 1608.6 | 2036.7 | 1402.3 | 1190.1 | 1149.5 |
| 85° | 1494.2 | 1302.2 | 1185.3 | 906.3 | 1067.3 | 1239.0 | 1527.5 | 754.8 | 598.6 | 542.6 |
| 87.5° | 674.9 | 453.1 | 332.7 | 205.1 | 324.3 | 374.4 | 741.7 | 88.2 | 68.0 | 70.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)