

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P634501

Luminaire Tested: GWS-SA3B-830-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-830-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8376.8 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

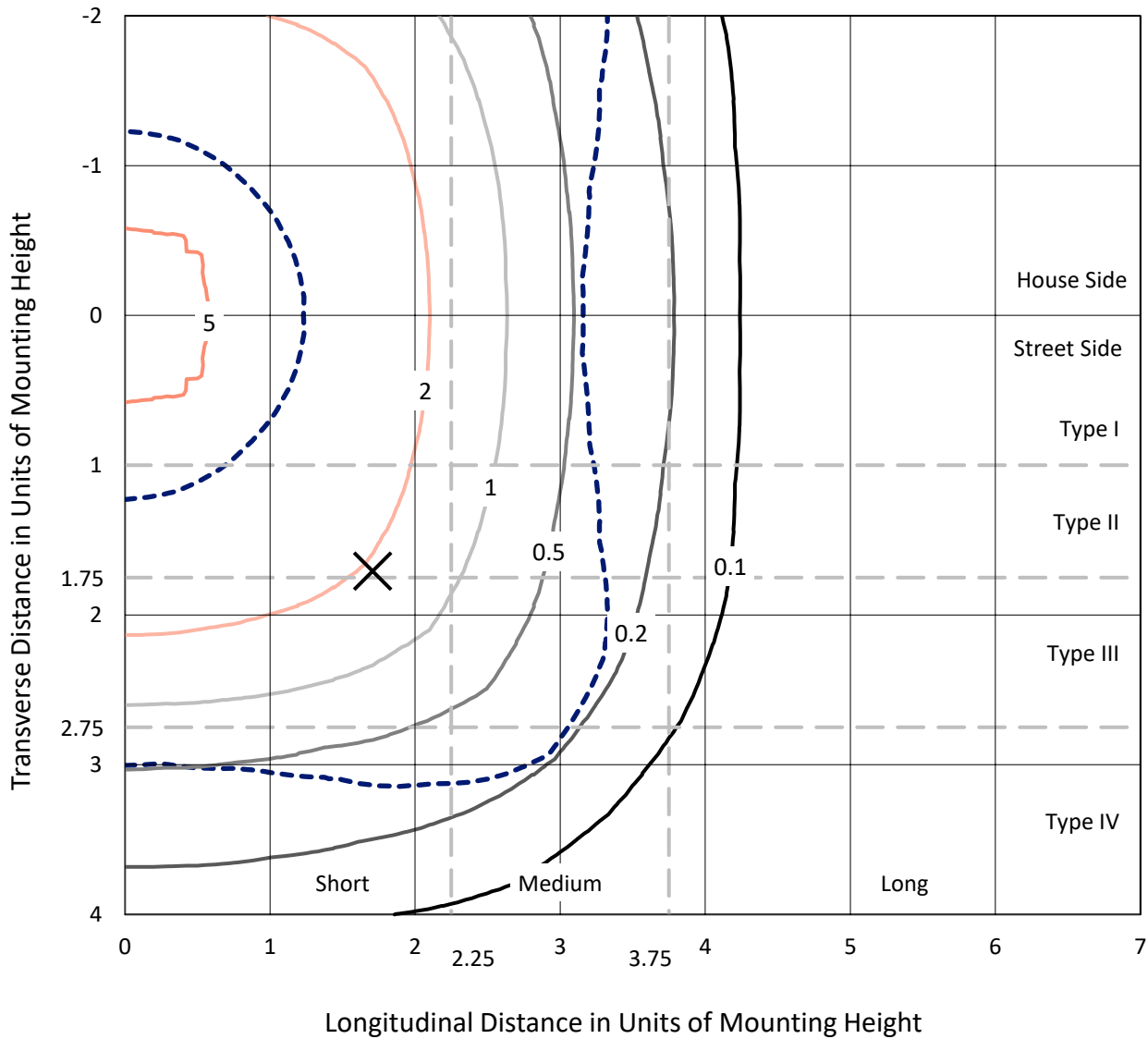
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

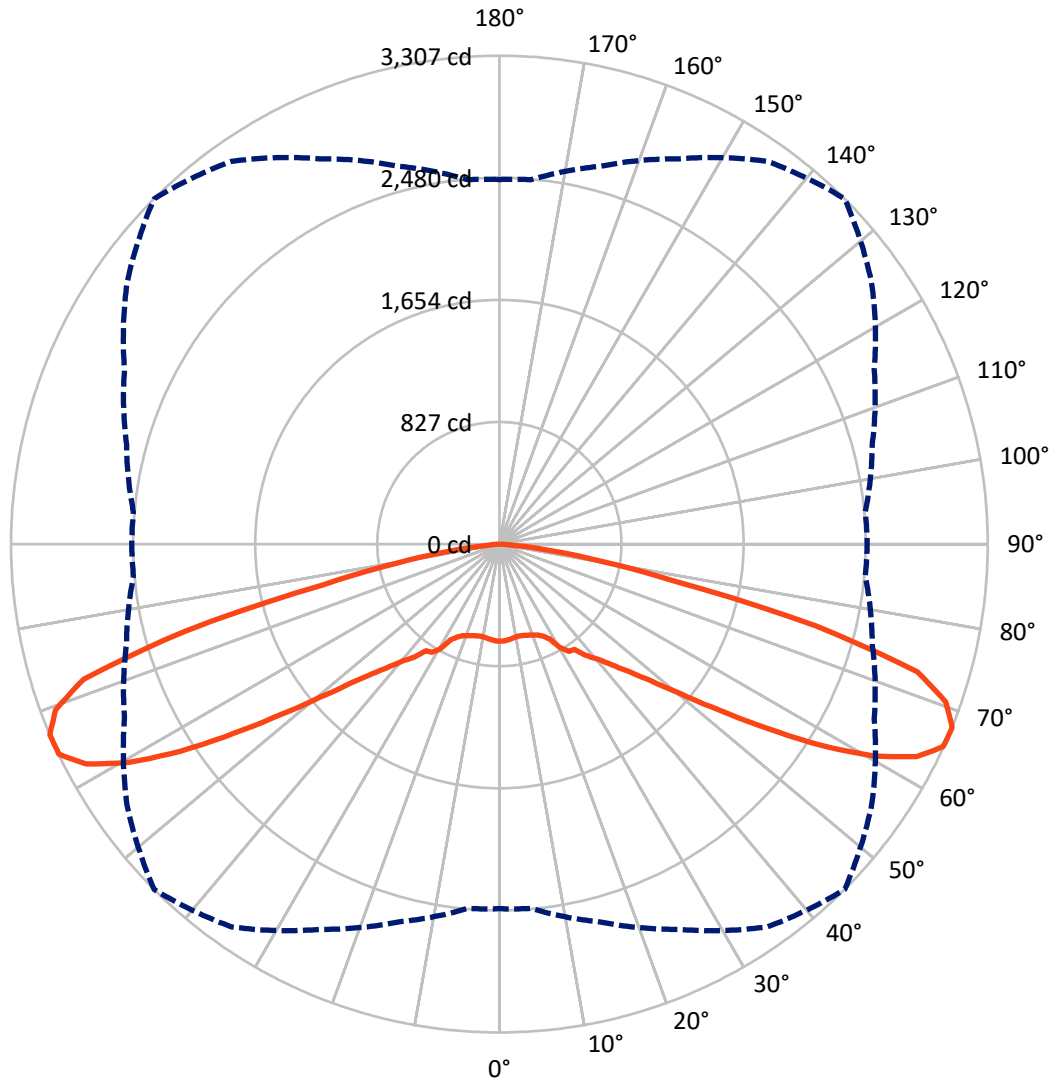
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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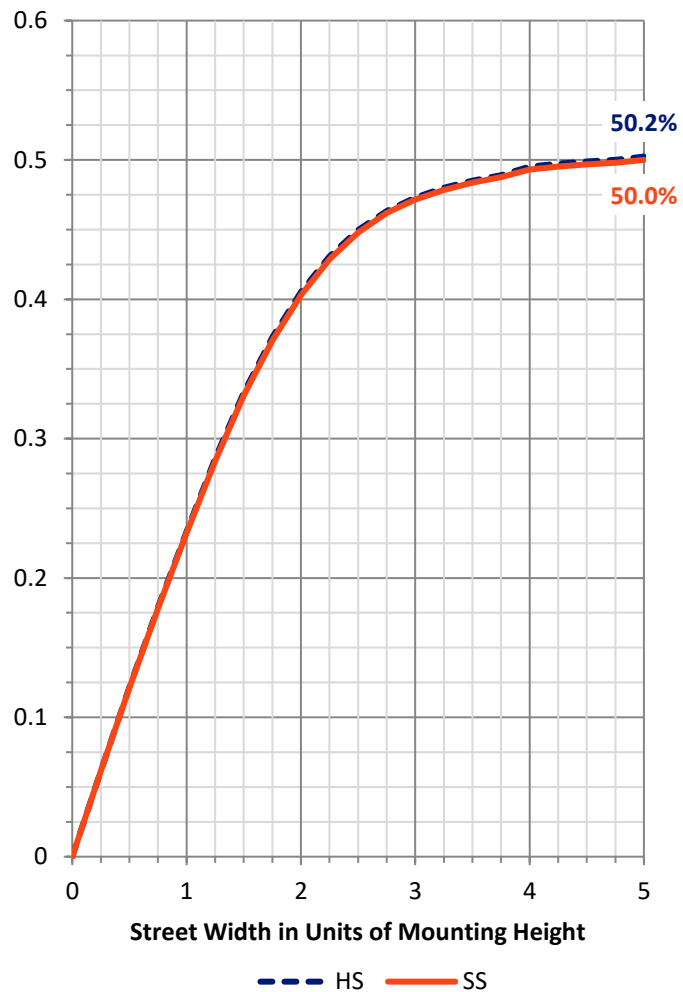
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4188.4 | 0.0 | 4188.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4188.4 | 0.0 | 4188.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8376.8 | 0.0 | 8376.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.7 | 0.7 |
| 10°-20° | 183.0 | 2.2 |
| 20°-30° | 328.3 | 3.9 |
| 30°-40° | 554.7 | 6.6 |
| 40°-50° | 974.5 | 11.6 |
| 50°-60° | 1879.9 | 22.4 |
| 60°-70° | 2727.5 | 32.6 |
| 70°-80° | 1560.6 | 18.6 |
| 80°-90° | 106.5 | 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° | 8376.8 | 100.0 |
| 0°-180° | 8376.8 | 100.0 |

Coefficient of Utilization



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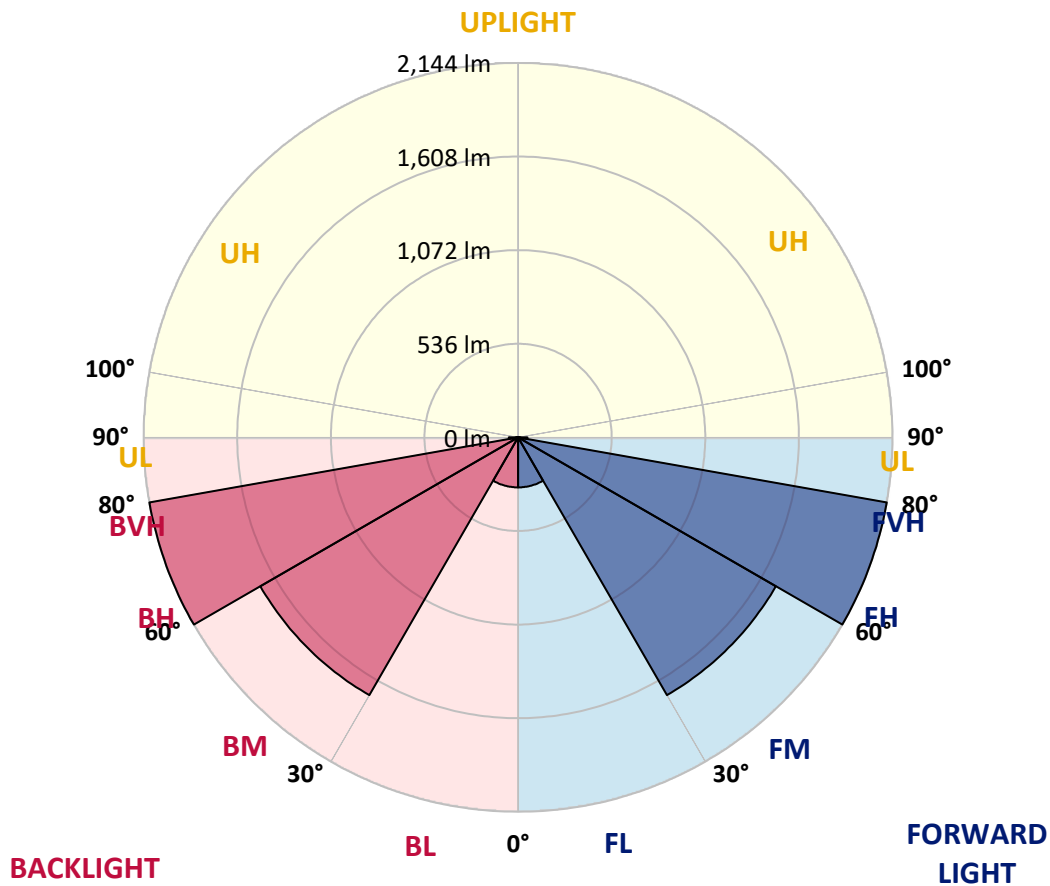
CATALOG NUMBER: GWS-SA3B-830-U-5WQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 286.5 | 3.4 | | | |
| FM (30°-60°) | 1704.6 | 20.3 | | | |
| FH (60°-80°) | 2144.0 | 25.6 | | | G2/5000 |
| FVH (80°-90°) | 53.3 | 0.6 | | | G1/100 |
| BL (0°-30°) | 286.5 | 3.4 | B1/500 | | |
| BM (30°-60°) | 1704.6 | 20.3 | B2/2500 | | |
| BH (60°-80°) | 2144.0 | 25.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 53.3 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 |
| 2.5° | 651.6 | 652.2 | 653.4 | 653.4 | 654.5 | 656.3 | 656.9 | 655.7 | 656.3 | 653.4 | 656.3 |
| 5° | 649.8 | 650.4 | 651.0 | 649.8 | 649.8 | 650.4 | 650.4 | 649.2 | 649.8 | 646.8 | 649.8 |
| 7.5° | 645.7 | 646.2 | 646.2 | 644.5 | 642.7 | 643.9 | 643.9 | 642.7 | 643.3 | 640.3 | 643.9 |
| 10° | 642.1 | 642.1 | 641.5 | 638.0 | 636.2 | 638.0 | 638.5 | 639.1 | 641.5 | 639.1 | 643.3 |
| 12.5° | 644.5 | 644.5 | 642.7 | 638.0 | 635.0 | 636.2 | 637.4 | 638.5 | 642.7 | 642.1 | 646.8 |
| 15° | 651.0 | 651.6 | 646.8 | 641.5 | 639.7 | 641.5 | 640.3 | 639.7 | 645.1 | 646.8 | 652.2 |
| 17.5° | 656.3 | 656.3 | 650.4 | 645.1 | 645.7 | 648.6 | 646.2 | 643.3 | 648.6 | 652.2 | 658.1 |
| 20° | 661.1 | 660.5 | 654.0 | 650.4 | 652.8 | 656.9 | 655.1 | 651.0 | 654.5 | 658.7 | 664.0 |
| 22.5° | 672.9 | 672.3 | 665.2 | 663.4 | 665.8 | 669.9 | 668.2 | 664.6 | 668.8 | 674.7 | 681.2 |
| 25° | 706.7 | 705.5 | 694.8 | 688.9 | 687.7 | 690.7 | 690.1 | 688.9 | 695.4 | 702.5 | 710.2 |
| 27.5° | 751.7 | 751.1 | 743.4 | 737.5 | 729.8 | 727.4 | 729.2 | 734.5 | 744.0 | 749.3 | 755.8 |
| 30° | 774.2 | 774.2 | 773.0 | 782.5 | 799.1 | 815.1 | 802.6 | 782.5 | 774.2 | 771.8 | 778.3 |
| 32.5° | 803.8 | 806.8 | 802.6 | 813.3 | 841.1 | 864.8 | 841.1 | 808.6 | 802.6 | 802.6 | 809.7 |
| 35° | 871.9 | 873.1 | 866.6 | 864.8 | 873.7 | 876.7 | 865.4 | 853.6 | 860.1 | 861.3 | 870.2 |
| 37.5° | 926.4 | 926.4 | 923.5 | 928.2 | 946.6 | 957.8 | 939.5 | 918.1 | 919.9 | 921.1 | 932.4 |
| 40° | 1010.5 | 1012.9 | 1005.8 | 1005.2 | 1012.3 | 1022.4 | 1002.8 | 989.2 | 998.7 | 1001.7 | 1018.8 |
| 42.5° | 1115.4 | 1115.4 | 1104.7 | 1101.8 | 1106.5 | 1117.2 | 1098.8 | 1089.9 | 1102.4 | 1104.7 | 1114.8 |
| 45° | 1240.4 | 1243.3 | 1229.1 | 1223.8 | 1226.2 | 1229.7 | 1216.7 | 1212.5 | 1224.4 | 1229.7 | 1247.5 |
| 47.5° | 1392.6 | 1395.6 | 1383.1 | 1382.5 | 1380.2 | 1382.5 | 1370.1 | 1367.7 | 1377.2 | 1373.1 | 1392.0 |
| 50° | 1580.4 | 1585.7 | 1575.0 | 1589.9 | 1588.1 | 1595.2 | 1578.0 | 1565.6 | 1565.6 | 1554.3 | 1565.0 |
| 52.5° | 1790.7 | 1801.3 | 1806.7 | 1831.5 | 1850.5 | 1868.3 | 1839.8 | 1820.3 | 1791.8 | 1768.7 | 1797.8 |
| 55° | 2019.9 | 2016.9 | 2050.7 | 2105.2 | 2160.9 | 2202.9 | 2147.3 | 2085.7 | 2039.4 | 1991.5 | 2002.7 |
| 57.5° | 2220.7 | 2230.8 | 2275.2 | 2374.7 | 2484.9 | 2573.7 | 2473.6 | 2355.2 | 2250.3 | 2181.6 | 2191.1 |
| 60° | 2387.7 | 2396.0 | 2455.3 | 2598.6 | 2791.1 | 2913.8 | 2755.0 | 2559.5 | 2407.3 | 2312.5 | 2322.6 |
| 62.5° | 2541.8 | 2549.5 | 2609.3 | 2767.4 | 3010.3 | 3170.2 | 2965.3 | 2698.1 | 2528.7 | 2433.4 | 2439.3 |
| 65° | 2630.6 | 2635.3 | 2717.1 | 2883.5 | 3139.4 | 3304.7 | 3073.7 | 2798.2 | 2631.8 | 2534.7 | 2538.2 |
| 67.5° | 2468.9 | 2476.6 | 2649.0 | 2878.8 | 3164.3 | 3307.1 | 3078.4 | 2801.2 | 2614.0 | 2487.3 | 2490.2 |
| 70° | 1947.6 | 1941.1 | 2146.7 | 2541.8 | 3021.6 | 3207.6 | 2941.6 | 2590.9 | 2301.9 | 2124.7 | 2121.8 |
| 72.5° | 1485.0 | 1486.8 | 1601.1 | 1871.8 | 2463.6 | 2960.0 | 2595.7 | 2086.2 | 1774.7 | 1640.2 | 1634.9 |
| 75° | 1076.9 | 1093.5 | 1186.5 | 1384.9 | 1723.1 | 2212.4 | 1954.2 | 1546.0 | 1337.5 | 1257.0 | 1245.1 |
| 77.5° | 485.1 | 506.5 | 636.2 | 869.6 | 1152.1 | 1222.6 | 1227.3 | 1049.6 | 792.0 | 658.1 | 637.4 |
| 80° | 141.6 | 151.6 | 194.9 | 333.5 | 536.7 | 693.6 | 550.9 | 463.2 | 288.5 | 226.3 | 215.6 |
| 82.5° | 59.8 | 68.1 | 83.5 | 92.4 | 155.8 | 321.6 | 200.2 | 127.4 | 118.5 | 96.0 | 87.7 |
| 85° | 25.5 | 27.2 | 34.9 | 37.3 | 50.3 | 68.7 | 63.4 | 57.5 | 55.1 | 42.6 | 39.1 |
| 87.5° | 10.7 | 10.7 | 10.7 | 9.5 | 8.9 | 9.5 | 13.0 | 16.6 | 21.9 | 17.2 | 16.0 |
| 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)