

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: P629333

Luminaire Tested: GWS-SA1B-740-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629333
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-SA1B-740-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633.5 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

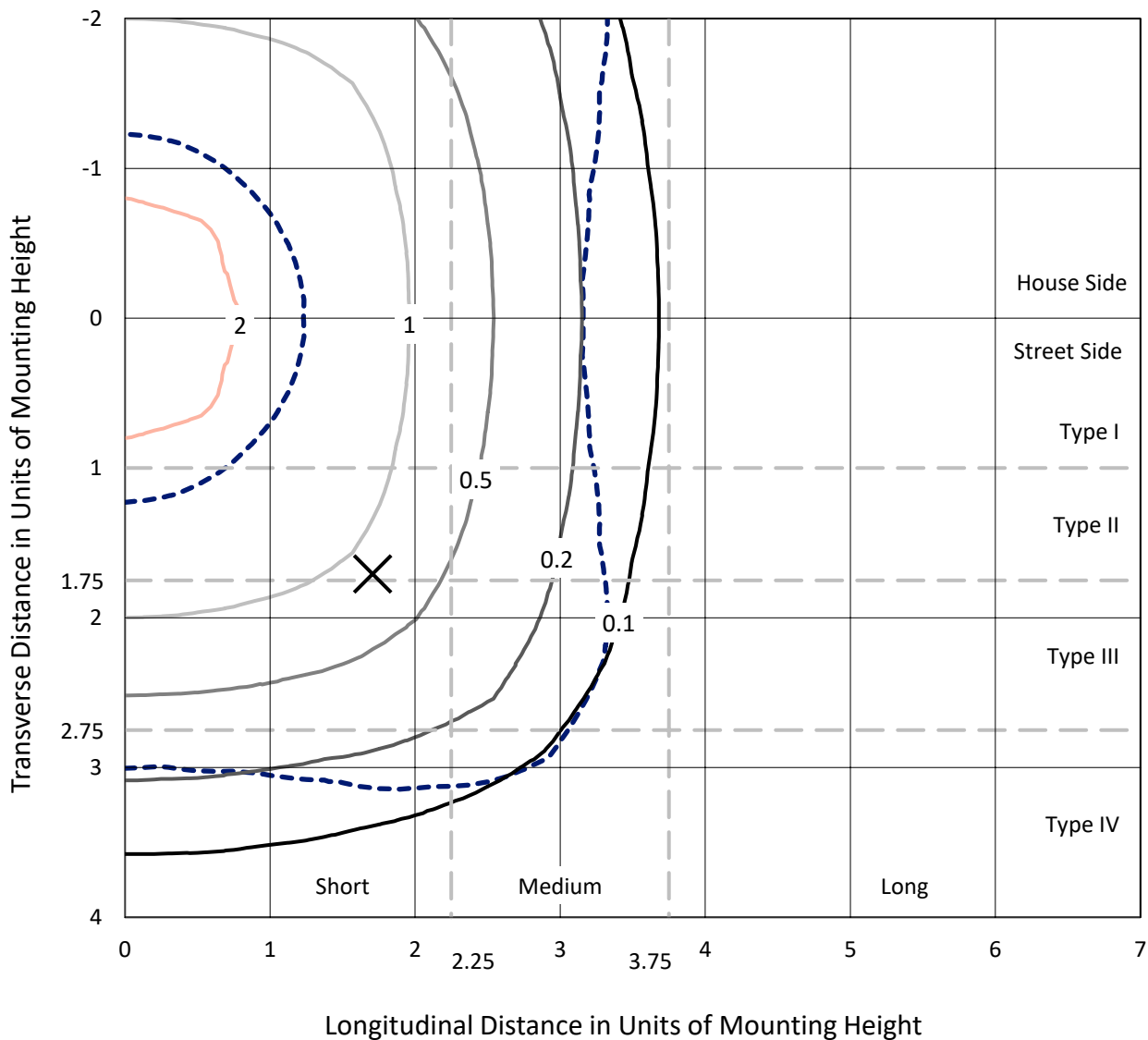
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

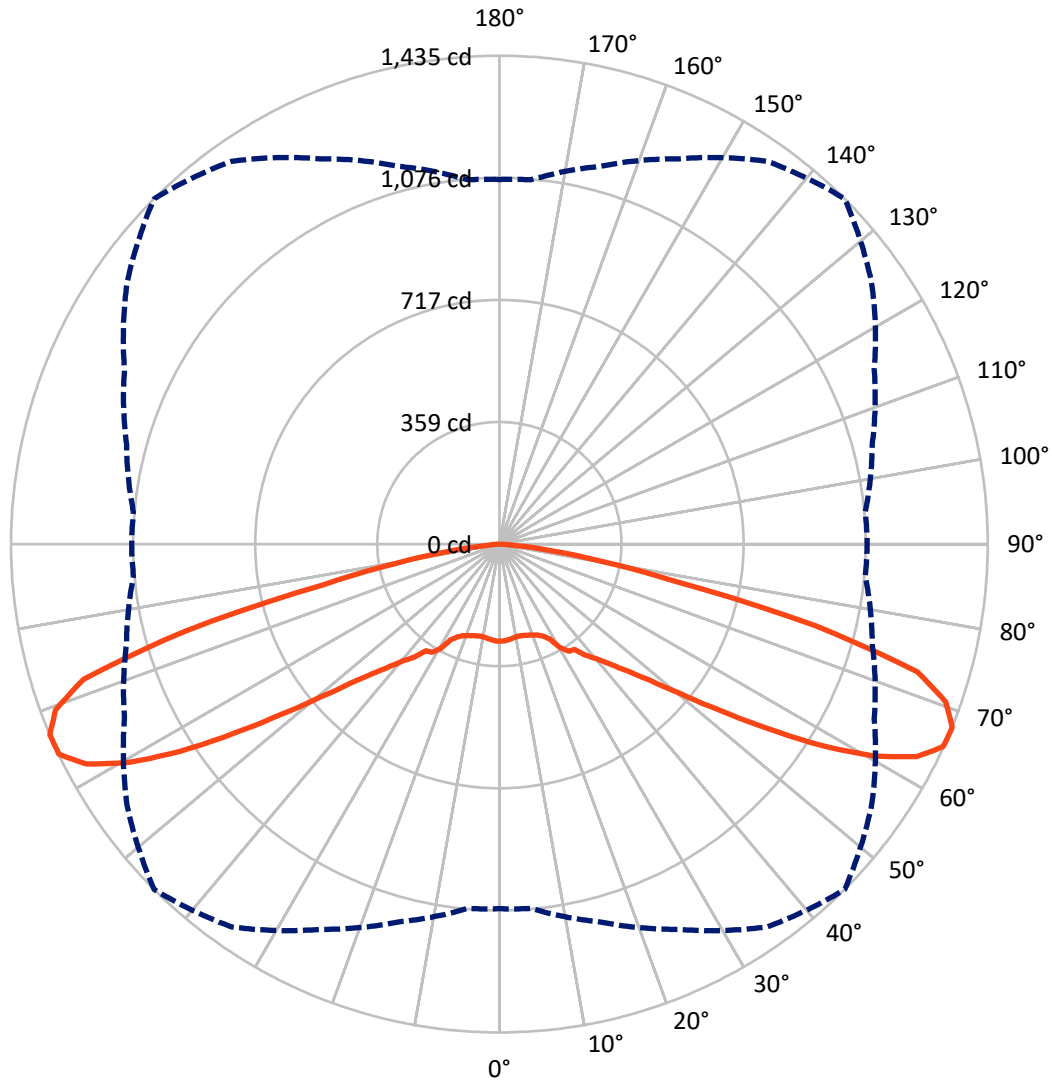
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 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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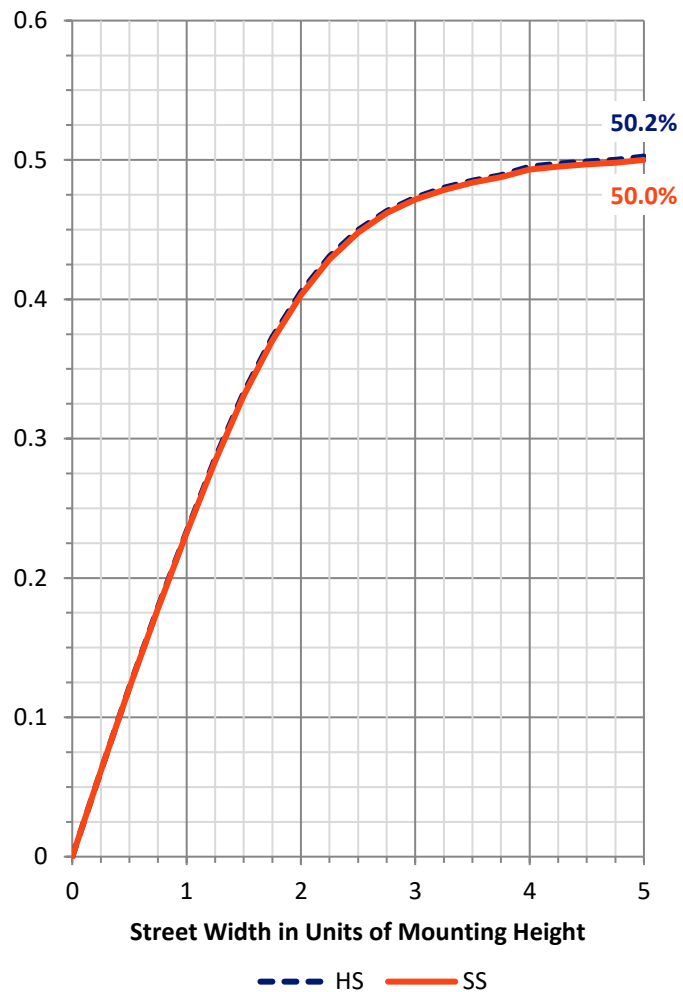
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1816.7 | 0.0 | 1816.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1816.7 | 0.0 | 1816.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3633.5 | 0.0 | 3633.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.8 | 0.7 |
| 10°-20° | 79.4 | 2.2 |
| 20°-30° | 142.4 | 3.9 |
| 30°-40° | 240.6 | 6.6 |
| 40°-50° | 422.7 | 11.6 |
| 50°-60° | 815.4 | 22.4 |
| 60°-70° | 1183.1 | 32.6 |
| 70°-80° | 676.9 | 18.6 |
| 80°-90° | 46.2 | 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° | 3633.5 | 100.0 |
| 0°-180° | 3633.5 | 100.0 |

Coefficient of Utilization



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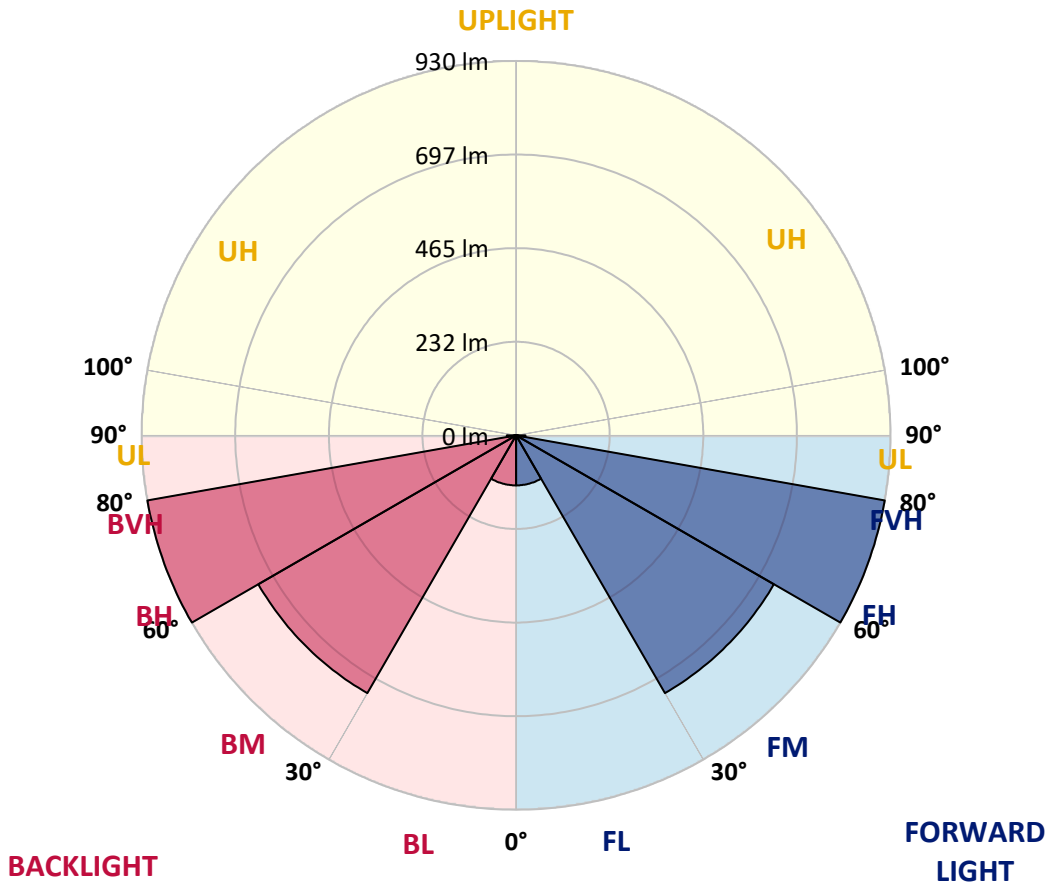
CATALOG NUMBER: GWS-SA1B-740-U-5WQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|---------------------------------------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 124.3 | 3.4 | | | |
| FM (30°-60°) | 739.4 | 20.3 | | | |
| FH (60°-80°) | 930.0 | 25.6 | | | G1/1800 |
| FVH (80°-90°) | 23.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 124.3 | 3.4 | B1/500 | | |
| BM (30°-60°) | 739.4 | 20.3 | B1/1000 | | |
| BH (60°-80°) | 930.0 | 25.6 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 23.1 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 <td></td> <td>U0/0</td> <td></td> | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 284.9 | 284.9 | 284.9 | 284.9 | 284.9 | 284.9 | 284.9 | 284.9 | 284.9 | 284.9 | 284.9 |
| 2.5° | 282.6 | 282.9 | 283.4 | 283.4 | 283.9 | 284.7 | 284.9 | 284.4 | 284.7 | 283.4 | 284.7 |
| 5° | 281.9 | 282.1 | 282.4 | 281.9 | 281.9 | 282.1 | 282.1 | 281.6 | 281.9 | 280.6 | 281.9 |
| 7.5° | 280.1 | 280.3 | 280.3 | 279.5 | 278.8 | 279.3 | 279.3 | 278.8 | 279.0 | 277.7 | 279.3 |
| 10° | 278.5 | 278.5 | 278.3 | 276.7 | 275.9 | 276.7 | 277.0 | 277.2 | 278.3 | 277.2 | 279.0 |
| 12.5° | 279.5 | 279.5 | 278.8 | 276.7 | 275.4 | 275.9 | 276.5 | 277.0 | 278.8 | 278.5 | 280.6 |
| 15° | 282.4 | 282.6 | 280.6 | 278.3 | 277.5 | 278.3 | 277.7 | 277.5 | 279.8 | 280.6 | 282.9 |
| 17.5° | 284.7 | 284.7 | 282.1 | 279.8 | 280.1 | 281.3 | 280.3 | 279.0 | 281.3 | 282.9 | 285.5 |
| 20° | 286.7 | 286.5 | 283.7 | 282.1 | 283.1 | 284.9 | 284.2 | 282.4 | 283.9 | 285.7 | 288.0 |
| 22.5° | 291.9 | 291.6 | 288.5 | 287.8 | 288.8 | 290.6 | 289.8 | 288.3 | 290.1 | 292.6 | 295.5 |
| 25° | 306.5 | 306.0 | 301.4 | 298.8 | 298.3 | 299.6 | 299.3 | 298.8 | 301.6 | 304.7 | 308.1 |
| 27.5° | 326.1 | 325.8 | 322.5 | 319.9 | 316.5 | 315.5 | 316.3 | 318.6 | 322.7 | 325.0 | 327.8 |
| 30° | 335.8 | 335.8 | 335.3 | 339.4 | 346.6 | 353.5 | 348.1 | 339.4 | 335.8 | 334.8 | 337.6 |
| 32.5° | 348.7 | 349.9 | 348.1 | 352.8 | 364.8 | 375.1 | 364.8 | 350.7 | 348.1 | 348.1 | 351.2 |
| 35° | 378.2 | 378.7 | 375.9 | 375.1 | 379.0 | 380.3 | 375.4 | 370.2 | 373.1 | 373.6 | 377.4 |
| 37.5° | 401.8 | 401.8 | 400.6 | 402.6 | 410.6 | 415.5 | 407.5 | 398.2 | 399.0 | 399.5 | 404.4 |
| 40° | 438.3 | 439.4 | 436.3 | 436.0 | 439.1 | 443.5 | 435.0 | 429.1 | 433.2 | 434.5 | 441.9 |
| 42.5° | 483.8 | 483.8 | 479.2 | 477.9 | 480.0 | 484.6 | 476.6 | 472.8 | 478.2 | 479.2 | 483.6 |
| 45° | 538.0 | 539.3 | 533.1 | 530.8 | 531.9 | 533.4 | 527.7 | 525.9 | 531.1 | 533.4 | 541.1 |
| 47.5° | 604.1 | 605.3 | 599.9 | 599.7 | 598.7 | 599.7 | 594.3 | 593.3 | 597.4 | 595.6 | 603.8 |
| 50° | 685.5 | 687.8 | 683.2 | 689.6 | 688.8 | 691.9 | 684.5 | 679.1 | 679.1 | 674.2 | 678.8 |
| 52.5° | 776.7 | 781.3 | 783.7 | 794.4 | 802.7 | 810.4 | 798.0 | 789.6 | 777.2 | 767.2 | 779.8 |
| 55° | 876.1 | 874.9 | 889.5 | 913.1 | 937.3 | 955.5 | 931.4 | 904.7 | 884.6 | 863.8 | 868.7 |
| 57.5° | 963.2 | 967.6 | 986.9 | 1030.1 | 1077.8 | 1116.4 | 1073.0 | 1021.6 | 976.1 | 946.3 | 950.4 |
| 60° | 1035.7 | 1039.3 | 1065.0 | 1127.2 | 1210.7 | 1263.9 | 1195.0 | 1110.2 | 1044.2 | 1003.1 | 1007.4 |
| 62.5° | 1102.5 | 1105.8 | 1131.8 | 1200.4 | 1305.7 | 1375.1 | 1286.2 | 1170.3 | 1096.9 | 1055.5 | 1058.1 |
| 65° | 1141.0 | 1143.1 | 1178.6 | 1250.8 | 1361.8 | 1433.4 | 1333.2 | 1213.8 | 1141.6 | 1099.4 | 1101.0 |
| 67.5° | 1070.9 | 1074.2 | 1149.0 | 1248.7 | 1372.5 | 1434.5 | 1335.3 | 1215.0 | 1133.9 | 1078.9 | 1080.2 |
| 70° | 844.8 | 842.0 | 931.1 | 1102.5 | 1310.6 | 1391.3 | 1275.9 | 1123.8 | 998.4 | 921.6 | 920.3 |
| 72.5° | 644.1 | 644.9 | 694.5 | 811.9 | 1068.6 | 1283.9 | 1125.9 | 904.9 | 769.8 | 711.5 | 709.1 |
| 75° | 467.1 | 474.3 | 514.6 | 600.7 | 747.4 | 959.7 | 847.6 | 670.6 | 580.2 | 545.2 | 540.1 |
| 77.5° | 210.4 | 219.7 | 275.9 | 377.2 | 499.7 | 530.3 | 532.4 | 455.3 | 343.5 | 285.5 | 276.5 |
| 80° | 61.4 | 65.8 | 84.5 | 144.7 | 232.8 | 300.9 | 238.9 | 200.9 | 125.1 | 98.1 | 93.5 |
| 82.5° | 26.0 | 29.5 | 36.2 | 40.1 | 67.6 | 139.5 | 86.8 | 55.2 | 51.4 | 41.6 | 38.0 |
| 85° | 11.0 | 11.8 | 15.2 | 16.2 | 21.8 | 29.8 | 27.5 | 24.9 | 23.9 | 18.5 | 17.0 |
| 87.5° | 4.6 | 4.6 | 4.6 | 4.1 | 3.9 | 4.1 | 5.7 | 7.2 | 9.5 | 7.5 | 6.9 |
| 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)