

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: P629274

Luminaire Tested: GWS-SA1B-735-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-735-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3204.6 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

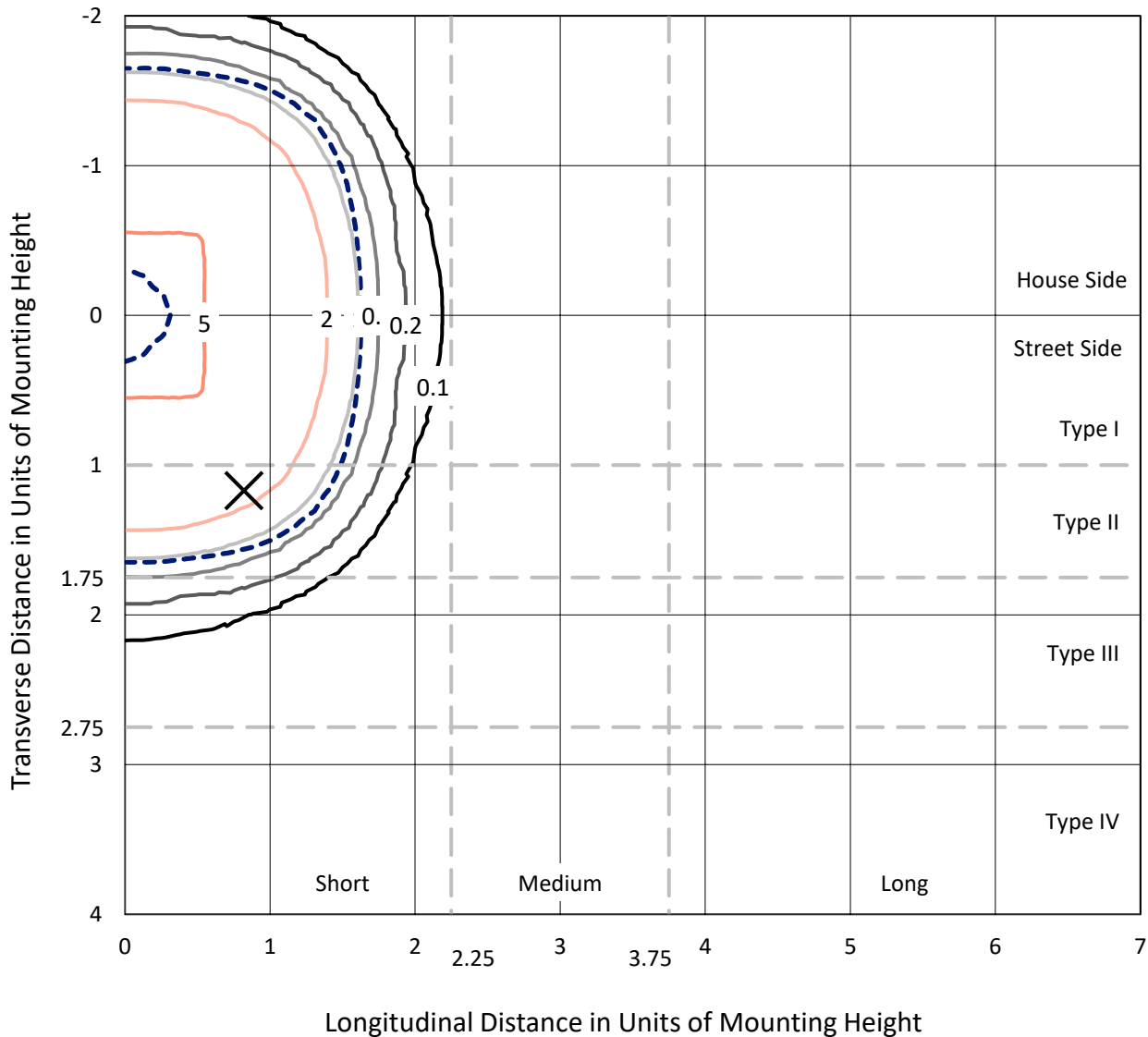
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

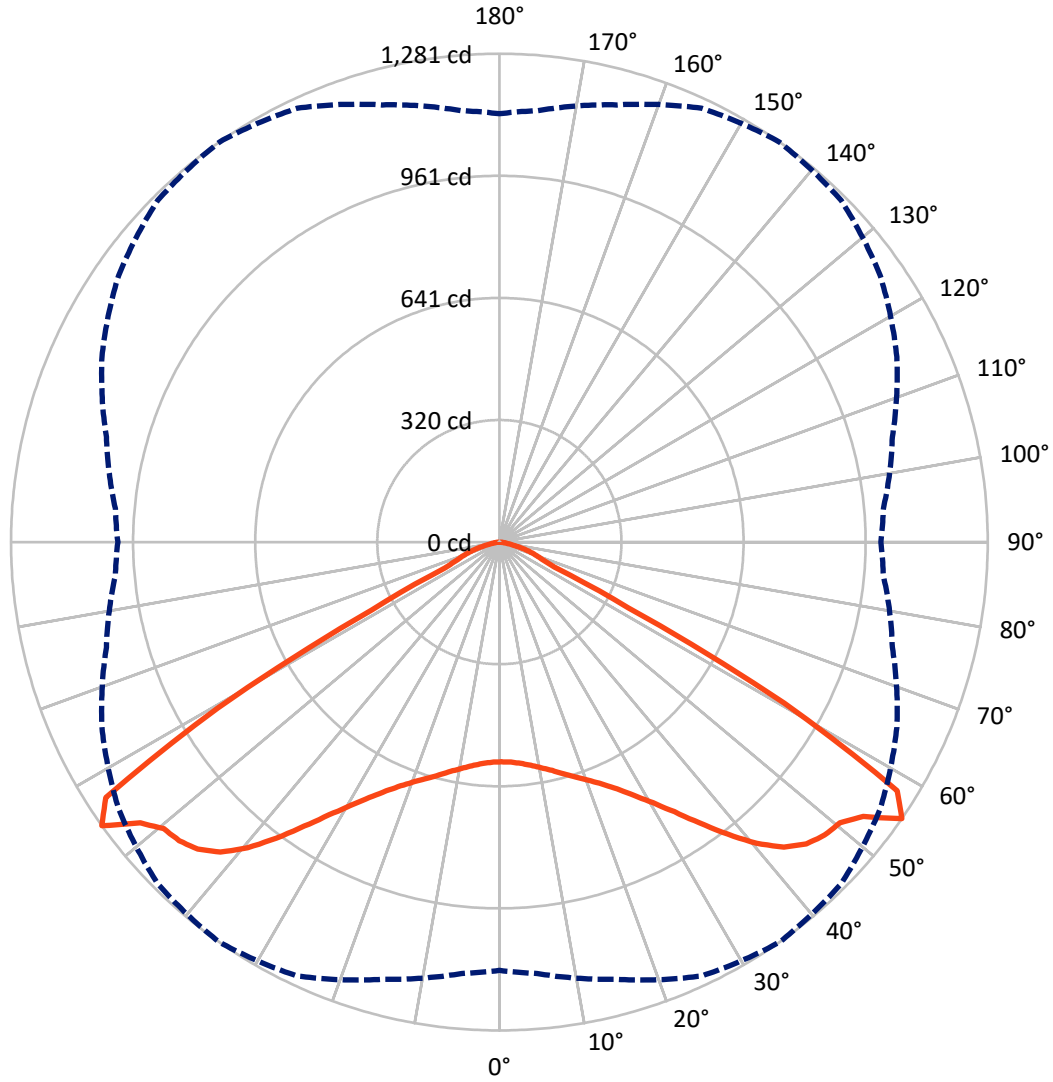
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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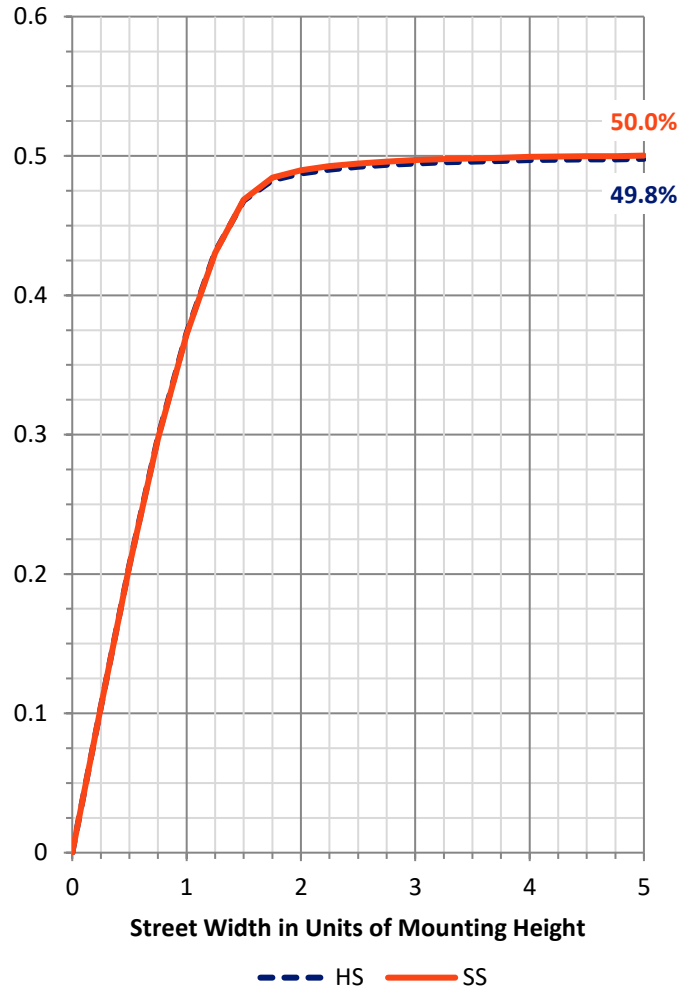
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1602.3 | 0.0 | 1602.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1602.3 | 0.0 | 1602.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3204.6 | 0.0 | 3204.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.2 | 1.8 |
| 10°-20° | 179.0 | 5.6 |
| 20°-30° | 331.4 | 10.3 |
| 30°-40° | 554.3 | 17.3 |
| 40°-50° | 844.6 | 26.4 |
| 50°-60° | 946.2 | 29.5 |
| 60°-70° | 223.9 | 7.0 |
| 70°-80° | 60.4 | 1.9 |
| 80°-90° | 8.7 | 0.3 |
| 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° | 3204.6 | 100.0 |
| 0°-180° | 3204.6 | 100.0 |

Coefficient of Utilization



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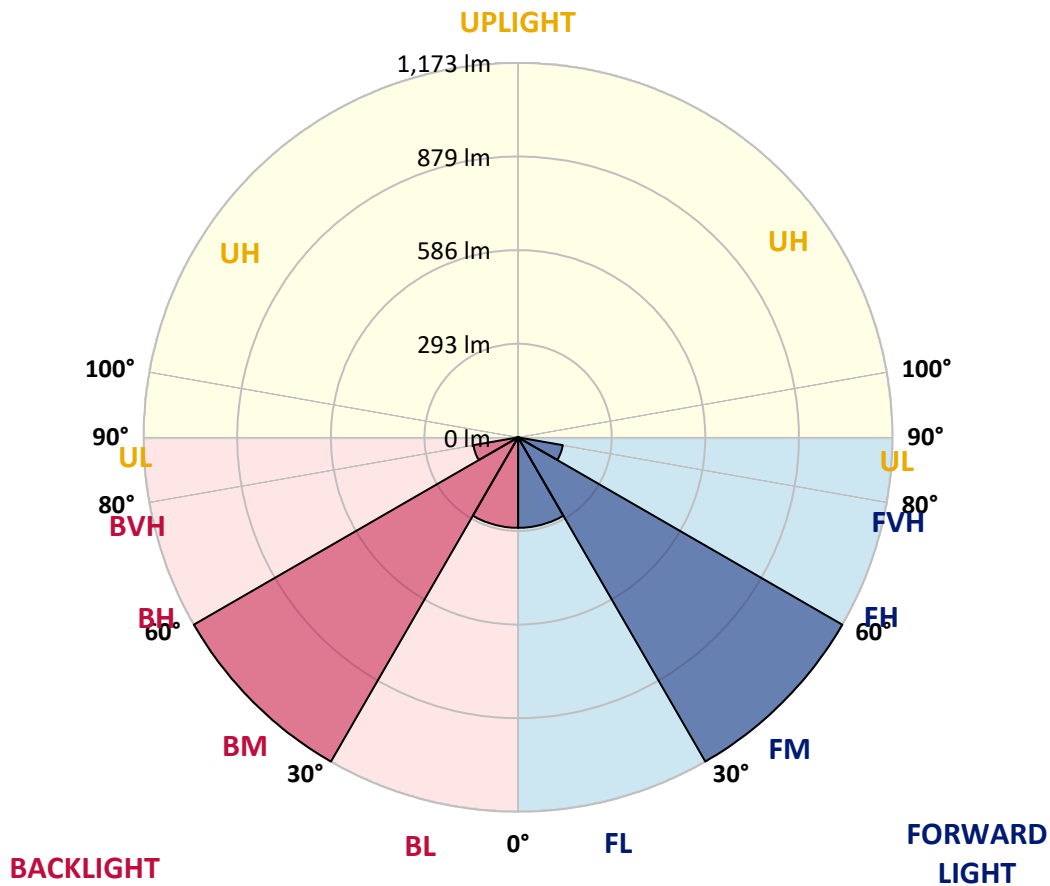
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 283.3 | 8.8 | | | |
| FM (30°-60°) | 1172.5 | 36.6 | | | |
| FH (60°-80°) | 142.1 | 4.4 | | | G0/660 |
| FVH (80°-90°) | 4.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 283.3 | 8.8 | B1/500 | | |
| BM (30°-60°) | 1172.5 | 36.6 | B2/2500 | | |
| BH (60°-80°) | 142.1 | 4.4 | B1/500 | | G0/660 |
| BVH (80°-90°) | 4.3 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 |
| 2.5° | 575.2 | 575.2 | 576.3 | 577.5 | 577.8 | 580.3 | 579.8 | 578.8 | 578.3 | 577.3 | 579.6 |
| 5° | 581.6 | 581.8 | 582.6 | 583.4 | 582.9 | 584.9 | 584.1 | 582.9 | 582.1 | 580.8 | 583.1 |
| 7.5° | 589.9 | 589.9 | 590.7 | 591.7 | 591.2 | 594.3 | 592.7 | 591.0 | 589.7 | 588.2 | 590.2 |
| 10° | 597.5 | 598.1 | 598.8 | 600.8 | 601.9 | 605.2 | 604.1 | 601.6 | 599.6 | 597.8 | 600.1 |
| 12.5° | 609.0 | 609.5 | 610.2 | 613.0 | 614.8 | 618.1 | 616.6 | 613.0 | 610.0 | 607.4 | 610.0 |
| 15° | 623.7 | 623.1 | 625.2 | 628.7 | 631.0 | 634.0 | 632.3 | 626.2 | 622.1 | 618.8 | 621.4 |
| 17.5° | 638.6 | 638.3 | 640.4 | 644.9 | 648.2 | 652.3 | 649.2 | 642.2 | 637.8 | 633.8 | 636.3 |
| 20° | 654.8 | 655.6 | 657.6 | 661.9 | 666.7 | 672.1 | 669.5 | 661.9 | 657.1 | 652.5 | 654.6 |
| 22.5° | 674.8 | 675.1 | 677.4 | 682.9 | 689.3 | 694.4 | 692.8 | 683.5 | 677.4 | 672.6 | 675.1 |
| 25° | 698.9 | 698.7 | 701.7 | 708.3 | 717.2 | 722.2 | 718.9 | 708.5 | 702.0 | 696.4 | 698.4 |
| 27.5° | 726.5 | 726.3 | 730.8 | 739.5 | 752.1 | 759.2 | 752.4 | 739.5 | 730.3 | 722.5 | 724.3 |
| 30° | 761.3 | 760.5 | 765.6 | 777.2 | 793.7 | 805.6 | 795.5 | 777.5 | 765.6 | 757.2 | 759.0 |
| 32.5° | 799.8 | 800.8 | 807.1 | 822.8 | 843.6 | 859.1 | 843.9 | 823.8 | 807.9 | 795.7 | 797.7 |
| 35° | 842.1 | 842.1 | 855.0 | 874.5 | 904.2 | 924.7 | 901.1 | 872.2 | 851.0 | 834.2 | 834.7 |
| 37.5° | 889.2 | 889.7 | 906.7 | 933.6 | 972.3 | 996.4 | 964.5 | 928.8 | 902.9 | 884.9 | 883.9 |
| 40° | 946.8 | 948.3 | 965.8 | 995.7 | 1039.2 | 1061.3 | 1027.1 | 992.1 | 965.8 | 944.5 | 942.4 |
| 42.5° | 1011.6 | 1012.1 | 1030.6 | 1057.5 | 1094.2 | 1107.4 | 1080.6 | 1051.9 | 1030.4 | 1011.1 | 1009.1 |
| 45° | 1073.5 | 1072.2 | 1088.2 | 1108.2 | 1129.5 | 1130.7 | 1115.8 | 1104.1 | 1085.4 | 1068.9 | 1065.9 |
| 47.5° | 1121.6 | 1120.6 | 1135.0 | 1145.9 | 1148.5 | 1136.1 | 1140.9 | 1142.6 | 1120.8 | 1098.5 | 1092.7 |
| 50° | 1151.0 | 1153.0 | 1166.7 | 1172.8 | 1157.8 | 1137.6 | 1155.8 | 1151.3 | 1120.1 | 1090.9 | 1081.6 |
| 52.5° | 1168.7 | 1171.8 | 1195.6 | 1211.1 | 1195.6 | 1176.3 | 1178.9 | 1152.0 | 1107.2 | 1068.6 | 1056.5 |
| 55° | 1123.9 | 1136.1 | 1187.5 | 1255.9 | 1281.3 | 1267.8 | 1219.7 | 1150.5 | 1067.4 | 1011.4 | 1001.0 |
| 57.5° | 833.0 | 852.2 | 928.5 | 1076.8 | 1230.8 | 1279.7 | 1139.1 | 964.5 | 838.5 | 766.6 | 760.5 |
| 60° | 425.2 | 446.8 | 507.8 | 660.1 | 858.3 | 927.2 | 793.4 | 617.6 | 490.9 | 432.6 | 426.0 |
| 62.5° | 173.6 | 177.1 | 197.2 | 255.9 | 379.4 | 437.6 | 384.4 | 269.9 | 202.7 | 186.8 | 187.0 |
| 65° | 136.6 | 137.4 | 136.3 | 139.9 | 158.9 | 176.4 | 162.9 | 143.2 | 139.6 | 141.4 | 140.1 |
| 67.5° | 119.1 | 119.4 | 118.6 | 118.6 | 119.4 | 118.6 | 120.1 | 120.9 | 121.4 | 123.4 | 122.1 |
| 70° | 99.6 | 99.8 | 99.8 | 100.4 | 100.1 | 98.8 | 101.1 | 102.1 | 102.4 | 103.6 | 102.9 |
| 72.5° | 77.0 | 77.8 | 78.3 | 78.6 | 78.3 | 77.5 | 78.8 | 80.6 | 80.3 | 81.6 | 80.3 |
| 75° | 52.2 | 53.2 | 53.7 | 54.7 | 54.5 | 54.5 | 56.0 | 56.8 | 56.0 | 57.0 | 56.0 |
| 77.5° | 29.6 | 30.4 | 31.9 | 32.9 | 34.0 | 34.7 | 35.7 | 36.2 | 36.0 | 36.5 | 36.0 |
| 80° | 17.2 | 17.5 | 18.8 | 19.3 | 20.5 | 21.8 | 22.8 | 23.3 | 23.6 | 23.8 | 23.6 |
| 82.5° | 9.9 | 10.1 | 10.6 | 11.2 | 12.2 | 13.2 | 14.2 | 15.0 | 15.0 | 15.2 | 15.0 |
| 85° | 4.8 | 4.8 | 5.1 | 5.3 | 5.8 | 6.6 | 7.3 | 8.1 | 8.4 | 8.4 | 8.4 |
| 87.5° | 0.8 | 0.8 | 1.0 | 1.0 | 1.3 | 1.5 | 2.0 | 2.5 | 2.8 | 2.8 | 2.8 |
| 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)