

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: P633014

Luminaire Tested: GWS-SA2D-830-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4881.2 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

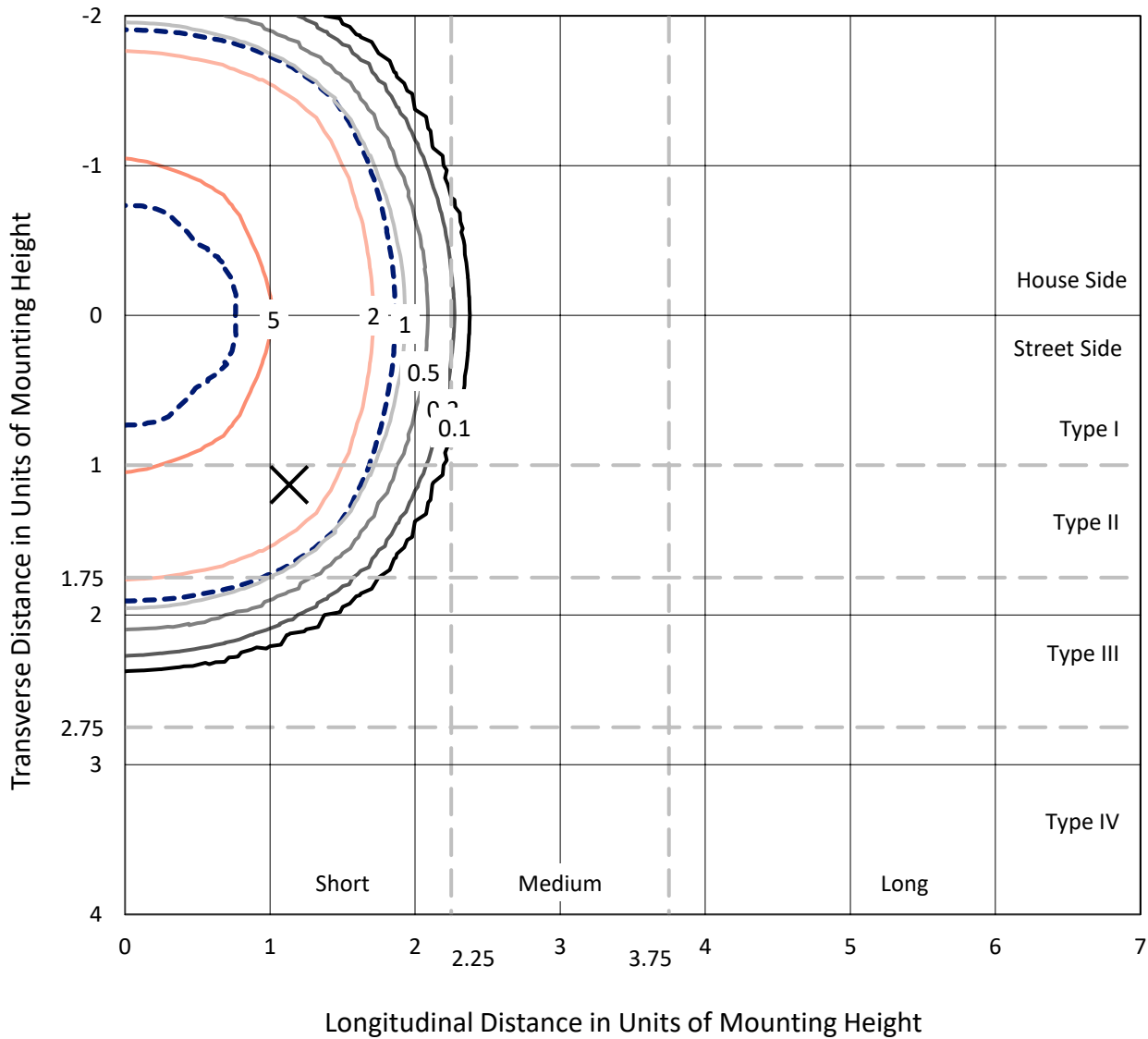
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

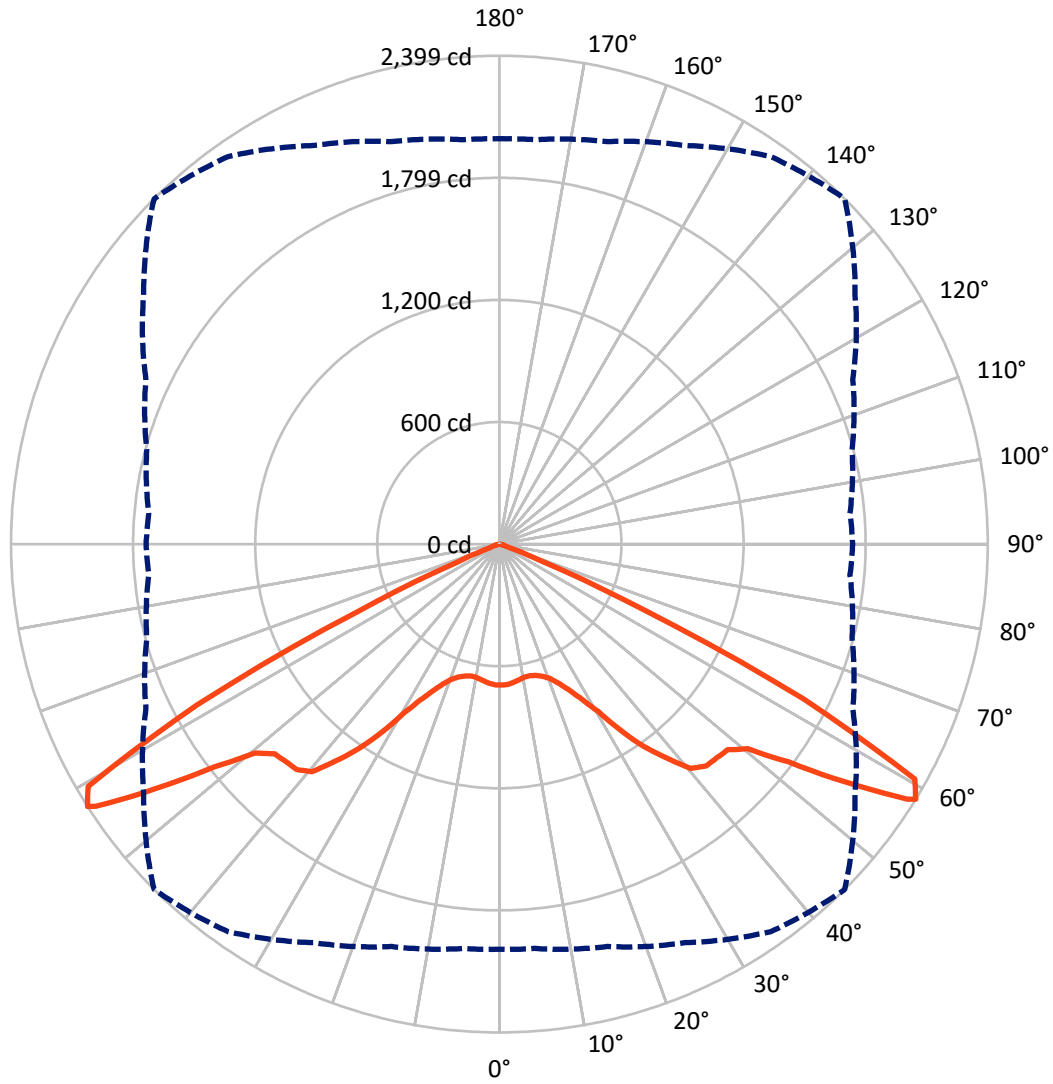
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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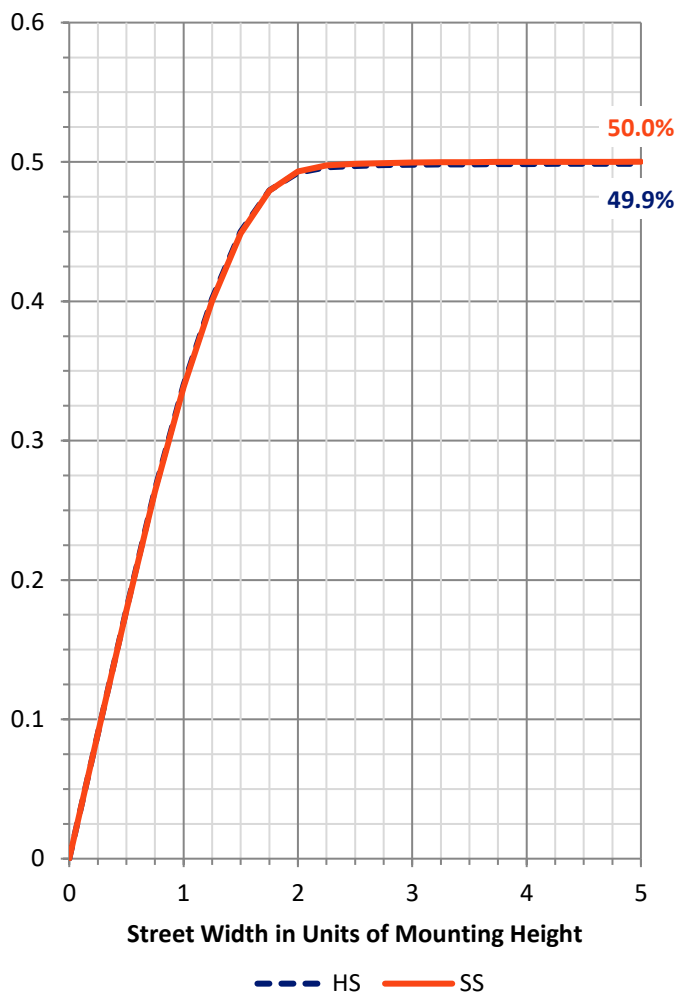
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2440.6 | 0.0 | 2440.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2440.6 | 0.0 | 2440.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4881.2 | 0.0 | 4881.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.6 | 1.3 |
| 10°-20° | 191.1 | 3.9 |
| 20°-30° | 361.4 | 7.4 |
| 30°-40° | 712.8 | 14.6 |
| 40°-50° | 1128.0 | 23.1 |
| 50°-60° | 1658.1 | 34.0 |
| 60°-70° | 740.1 | 15.2 |
| 70°-80° | 24.8 | 0.5 |
| 80°-90° | 0.2 | 0.0 |
| 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° | 4881.2 | 100.0 |
| 0°-180° | 4881.2 | 100.0 |

Coefficient of Utilization



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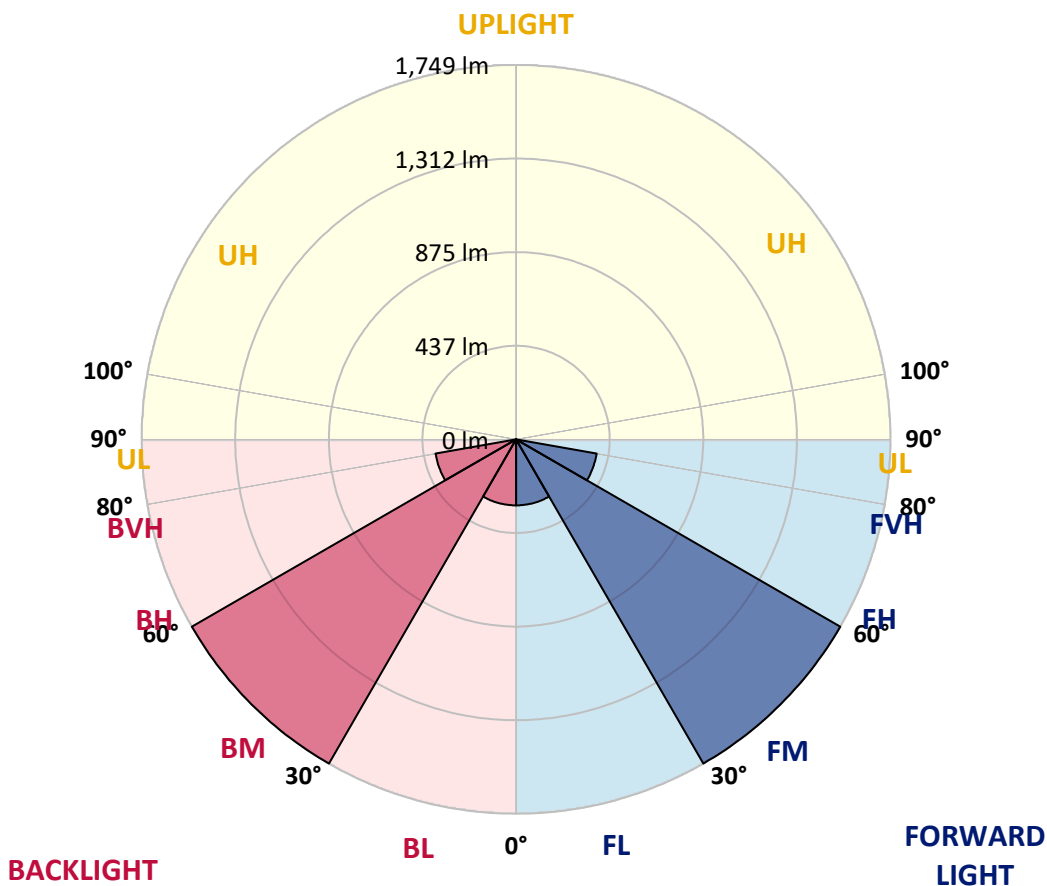
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 308.6 | 6.3 | | | |
| FM (30°-60°) | 1749.5 | 35.8 | | | |
| FH (60°-80°) | 382.5 | 7.8 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 308.6 | 6.3 | B1/500 | | |
| BM (30°-60°) | 1749.5 | 35.8 | B2/2500 | | |
| BH (60°-80°) | 382.5 | 7.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.1 | 0.0 | | | 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° | 692.2 | 692.2 | 692.2 | 692.2 | 692.2 | 692.2 | 692.2 | 692.2 | 692.2 | 692.2 | 692.2 |
| 2.5° | 685.6 | 686.9 | 688.2 | 688.9 | 689.6 | 691.6 | 692.2 | 690.2 | 690.2 | 686.2 | 690.9 |
| 5° | 682.2 | 683.6 | 684.9 | 684.2 | 684.2 | 684.2 | 683.6 | 680.9 | 680.2 | 676.3 | 680.9 |
| 7.5° | 676.3 | 677.6 | 677.6 | 675.6 | 674.3 | 674.3 | 673.6 | 670.3 | 669.6 | 665.6 | 670.3 |
| 10° | 671.6 | 672.3 | 671.6 | 667.6 | 665.0 | 665.0 | 664.3 | 663.0 | 663.6 | 661.0 | 665.0 |
| 12.5° | 674.3 | 674.9 | 672.3 | 667.0 | 663.6 | 663.0 | 661.0 | 659.0 | 661.0 | 660.3 | 664.3 |
| 15° | 682.9 | 683.6 | 678.9 | 672.3 | 669.6 | 669.6 | 664.3 | 659.0 | 661.6 | 662.3 | 667.0 |
| 17.5° | 693.5 | 693.5 | 687.6 | 681.6 | 682.2 | 682.2 | 673.6 | 664.3 | 665.0 | 667.6 | 672.3 |
| 20° | 706.2 | 706.2 | 700.2 | 698.9 | 703.5 | 704.2 | 693.5 | 678.9 | 675.6 | 677.6 | 682.9 |
| 22.5° | 728.8 | 728.8 | 724.1 | 727.5 | 738.1 | 741.4 | 725.5 | 704.9 | 696.9 | 698.2 | 703.5 |
| 25° | 764.0 | 764.0 | 762.7 | 770.7 | 786.0 | 793.3 | 772.0 | 744.8 | 731.5 | 729.5 | 735.4 |
| 27.5° | 823.2 | 823.9 | 821.9 | 833.9 | 853.1 | 861.8 | 832.5 | 796.6 | 780.7 | 777.3 | 783.3 |
| 30° | 899.7 | 899.7 | 900.4 | 917.0 | 942.2 | 953.5 | 915.0 | 873.1 | 854.5 | 843.8 | 851.8 |
| 32.5° | 984.8 | 986.1 | 992.8 | 1020.7 | 1065.3 | 1088.5 | 1032.0 | 973.5 | 943.6 | 932.3 | 940.9 |
| 35° | 1125.1 | 1112.5 | 1104.5 | 1125.1 | 1189.6 | 1220.2 | 1147.7 | 1079.2 | 1056.6 | 1055.3 | 1077.2 |
| 37.5° | 1264.1 | 1256.8 | 1240.1 | 1261.4 | 1319.3 | 1333.2 | 1253.4 | 1196.3 | 1180.3 | 1188.9 | 1210.9 |
| 40° | 1374.5 | 1361.2 | 1339.2 | 1359.2 | 1435.0 | 1448.9 | 1350.5 | 1294.0 | 1288.0 | 1307.3 | 1337.2 |
| 42.5° | 1461.6 | 1443.0 | 1413.7 | 1418.4 | 1479.5 | 1489.5 | 1402.4 | 1359.8 | 1363.8 | 1387.8 | 1421.7 |
| 45° | 1500.8 | 1486.2 | 1460.2 | 1458.2 | 1496.8 | 1497.5 | 1429.0 | 1407.0 | 1417.7 | 1436.3 | 1462.9 |
| 47.5° | 1517.4 | 1510.8 | 1496.2 | 1492.8 | 1514.8 | 1509.5 | 1466.9 | 1457.6 | 1467.6 | 1472.9 | 1488.2 |
| 50° | 1558.7 | 1558.7 | 1560.7 | 1563.3 | 1585.9 | 1580.6 | 1550.7 | 1540.0 | 1527.4 | 1508.8 | 1513.4 |
| 52.5° | 1674.4 | 1679.0 | 1698.3 | 1719.6 | 1760.8 | 1778.1 | 1729.6 | 1667.7 | 1607.2 | 1566.6 | 1566.6 |
| 55° | 1883.2 | 1887.8 | 1910.4 | 1946.3 | 2022.1 | 2063.4 | 1950.3 | 1814.0 | 1730.9 | 1675.7 | 1683.0 |
| 57.5° | 1998.2 | 2003.5 | 2050.1 | 2147.1 | 2294.1 | 2363.9 | 2121.2 | 1919.1 | 1802.7 | 1739.5 | 1744.8 |
| 58° | 1990.9 | 1994.2 | 2046.7 | 2160.4 | 2324.0 | 2399.2 | 2133.2 | 1915.7 | 1793.4 | 1728.9 | 1735.5 |
| 60° | 1768.8 | 1764.1 | 1847.9 | 2010.2 | 2240.9 | 2344.6 | 2014.2 | 1748.8 | 1606.5 | 1540.7 | 1544.0 |
| 62.5° | 1156.4 | 1159.0 | 1231.5 | 1401.1 | 1580.6 | 1678.3 | 1407.0 | 1209.6 | 1095.2 | 1055.3 | 1045.3 |
| 65° | 482.8 | 474.1 | 518.7 | 613.1 | 720.8 | 775.3 | 666.3 | 563.9 | 493.4 | 466.8 | 474.1 |
| 67.5° | 124.3 | 121.0 | 123.7 | 154.9 | 189.5 | 224.1 | 188.2 | 143.6 | 125.0 | 126.3 | 126.3 |
| 70° | 70.5 | 66.5 | 53.9 | 49.9 | 48.5 | 48.5 | 48.5 | 48.5 | 55.9 | 65.8 | 67.8 |
| 72.5° | 53.2 | 49.9 | 39.2 | 33.9 | 29.9 | 27.9 | 29.3 | 33.9 | 40.6 | 49.2 | 50.5 |
| 75° | 26.6 | 26.6 | 23.9 | 22.6 | 19.9 | 18.6 | 19.3 | 21.3 | 24.6 | 27.9 | 27.3 |
| 77.5° | 5.3 | 6.0 | 6.6 | 8.0 | 6.6 | 6.6 | 6.6 | 8.0 | 8.0 | 8.6 | 8.0 |
| 80° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 82.5° | 0.0 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)