

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: P630316

Luminaire Tested: GWS-SA1D-740-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-740-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4267 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

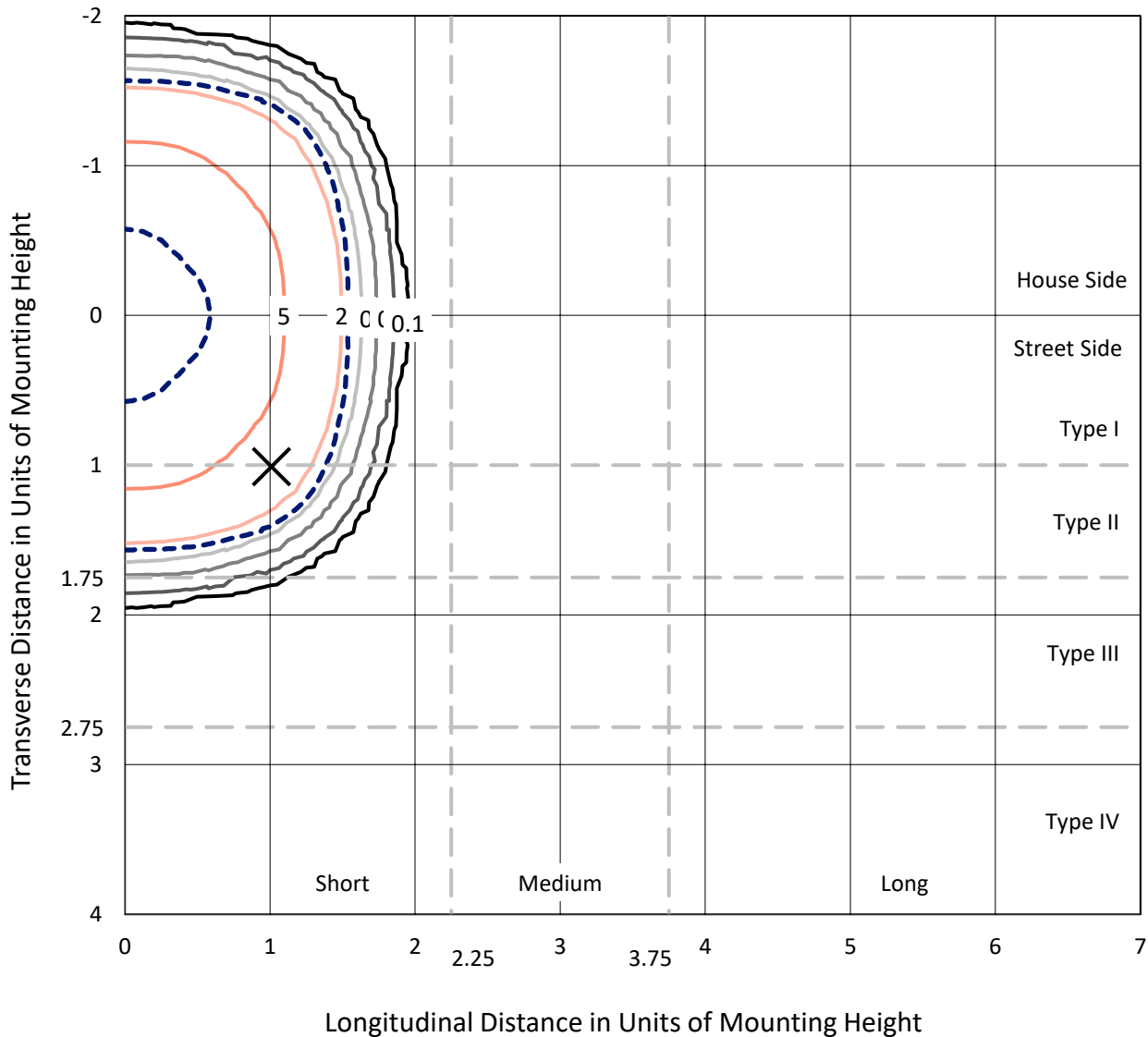
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

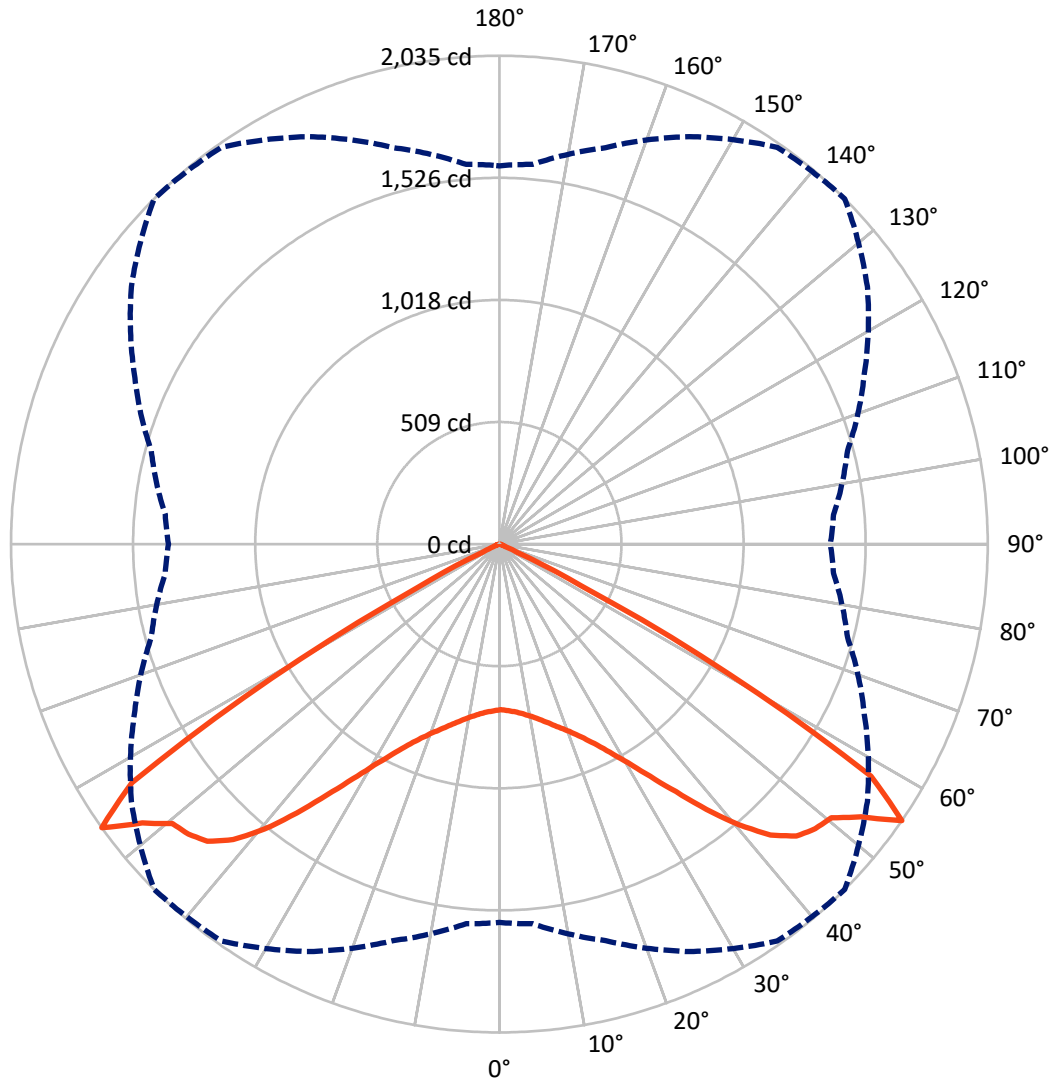
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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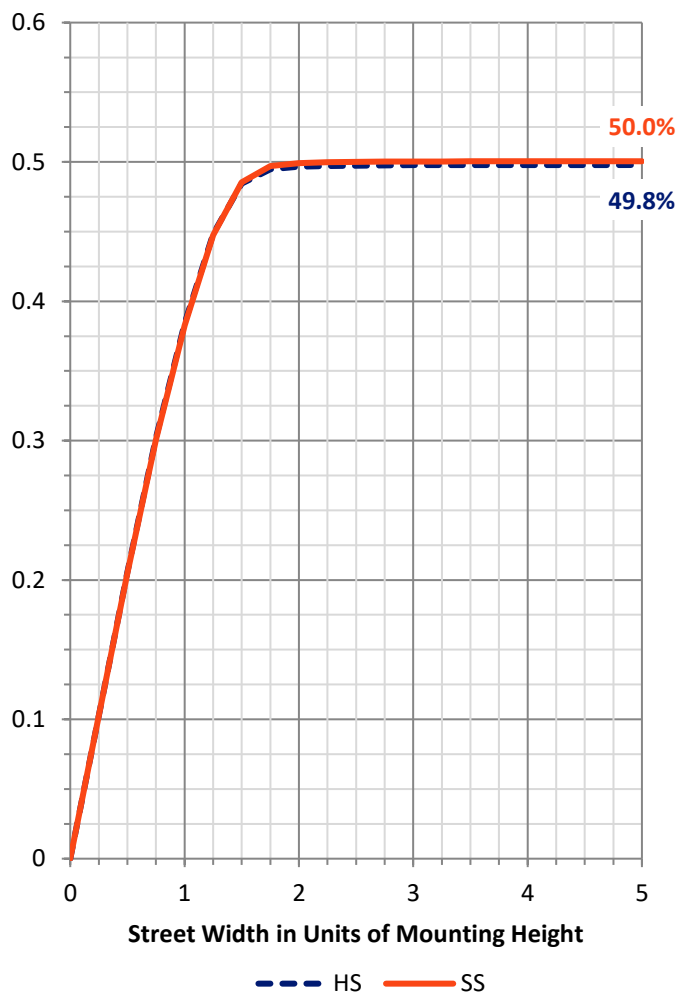
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2133.5 | 0.0 | 2133.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2133.5 | 0.0 | 2133.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4267.0 | 0.0 | 4267.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.6 | 1.6 |
| 10°-20° | 219.1 | 5.1 |
| 20°-30° | 424.3 | 9.9 |
| 30°-40° | 760.2 | 17.8 |
| 40°-50° | 1274.6 | 29.9 |
| 50°-60° | 1364.4 | 32.0 |
| 60°-70° | 149.9 | 3.5 |
| 70°-80° | 6.6 | 0.2 |
| 80°-90° | 0.3 | 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° | 4267.0 | 100.0 |
| 0°-180° | 4267.0 | 100.0 |

Coefficient of Utilization



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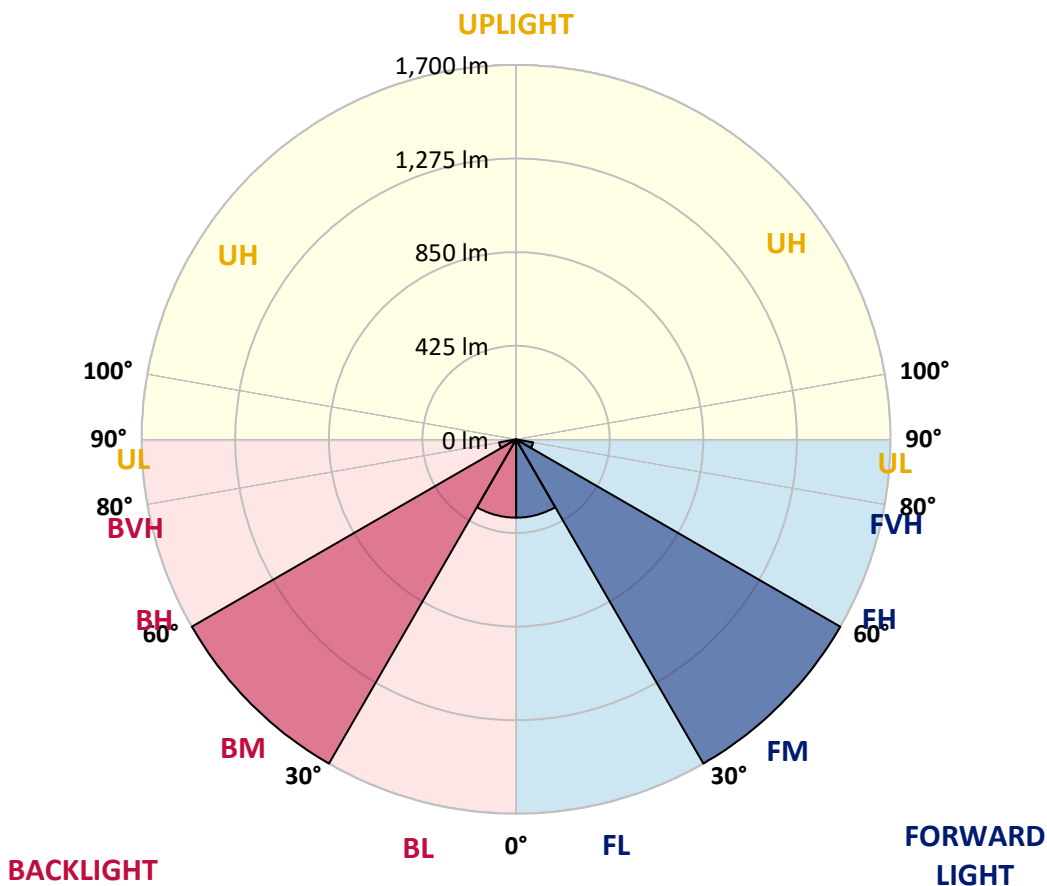
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 355.5 | 8.3 | | | |
| FM (30°-60°) | 1699.6 | 39.8 | | | |
| FH (60°-80°) | 78.3 | 1.8 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 355.5 | 8.3 | B1/500 | | |
| BM (30°-60°) | 1699.6 | 39.8 | B2/2500 | | |
| BH (60°-80°) | 78.3 | 1.8 | B0/110 | | 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° | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 |
| 2.5° | 688.6 | 688.6 | 690.3 | 691.6 | 691.6 | 695.1 | 693.8 | 692.5 | 692.5 | 690.8 | 694.2 |
| 5° | 698.6 | 698.2 | 699.9 | 700.8 | 699.0 | 702.5 | 700.3 | 699.0 | 698.2 | 696.4 | 699.9 |
| 7.5° | 709.5 | 709.9 | 710.3 | 712.1 | 711.2 | 714.7 | 712.9 | 710.3 | 709.5 | 706.8 | 710.3 |
| 10° | 722.5 | 722.5 | 723.4 | 725.5 | 726.0 | 730.3 | 728.6 | 725.5 | 722.9 | 720.3 | 723.8 |
| 12.5° | 739.0 | 739.4 | 740.8 | 743.8 | 745.5 | 750.3 | 747.7 | 741.6 | 737.7 | 734.7 | 738.6 |
| 15° | 762.9 | 762.5 | 764.2 | 768.6 | 770.7 | 774.2 | 770.3 | 762.1 | 757.3 | 753.8 | 756.4 |
| 17.5° | 789.0 | 789.0 | 789.9 | 794.2 | 797.3 | 802.5 | 797.7 | 787.7 | 783.4 | 778.6 | 781.2 |
| 20° | 817.7 | 819.0 | 819.9 | 822.9 | 828.1 | 833.3 | 829.4 | 819.4 | 814.7 | 808.6 | 811.6 |
| 22.5° | 855.5 | 854.2 | 854.6 | 859.9 | 867.3 | 872.5 | 869.4 | 857.7 | 849.4 | 844.6 | 846.4 |
| 25° | 897.7 | 897.3 | 898.6 | 906.4 | 914.6 | 920.3 | 915.9 | 900.7 | 892.5 | 884.2 | 887.7 |
| 27.5° | 949.4 | 949.9 | 950.7 | 960.3 | 973.3 | 981.6 | 970.7 | 955.5 | 944.2 | 933.3 | 935.9 |
| 30° | 1010.7 | 1009.8 | 1012.4 | 1025.5 | 1044.6 | 1057.7 | 1045.1 | 1023.8 | 1007.7 | 997.2 | 998.5 |
| 32.5° | 1075.9 | 1076.8 | 1083.7 | 1104.6 | 1129.8 | 1152.9 | 1127.2 | 1099.0 | 1078.1 | 1058.5 | 1061.1 |
| 35° | 1146.3 | 1148.5 | 1164.2 | 1195.0 | 1236.3 | 1267.2 | 1231.5 | 1185.0 | 1155.5 | 1130.3 | 1131.1 |
| 37.5° | 1229.4 | 1234.6 | 1256.3 | 1302.4 | 1361.5 | 1402.8 | 1350.7 | 1288.9 | 1250.7 | 1219.4 | 1217.2 |
| 40° | 1338.5 | 1344.6 | 1374.1 | 1428.9 | 1500.6 | 1538.5 | 1478.0 | 1414.6 | 1367.2 | 1333.3 | 1328.1 |
| 42.5° | 1463.7 | 1471.5 | 1503.7 | 1559.8 | 1631.5 | 1657.1 | 1598.0 | 1544.5 | 1501.9 | 1461.9 | 1460.2 |
| 45° | 1605.0 | 1609.3 | 1635.4 | 1678.4 | 1730.2 | 1736.2 | 1691.9 | 1662.3 | 1619.3 | 1581.9 | 1578.9 |
| 47.5° | 1737.6 | 1741.9 | 1759.7 | 1781.9 | 1794.1 | 1772.3 | 1764.5 | 1751.5 | 1695.8 | 1649.7 | 1640.2 |
| 50° | 1838.4 | 1841.9 | 1864.1 | 1872.7 | 1838.8 | 1792.8 | 1808.0 | 1780.2 | 1719.7 | 1668.0 | 1653.2 |
| 52.5° | 1831.5 | 1840.1 | 1897.1 | 1946.7 | 1925.3 | 1888.0 | 1847.1 | 1787.1 | 1693.2 | 1622.4 | 1604.1 |
| 55° | 1576.7 | 1588.4 | 1710.6 | 1873.6 | 2019.2 | 2035.3 | 1871.9 | 1678.4 | 1501.9 | 1398.0 | 1379.3 |
| 57.5° | 1013.3 | 1016.4 | 1165.5 | 1394.1 | 1722.3 | 1825.8 | 1552.4 | 1265.5 | 1045.9 | 931.6 | 923.8 |
| 60° | 372.6 | 366.5 | 479.1 | 668.6 | 992.0 | 1101.6 | 913.8 | 639.9 | 456.5 | 375.6 | 369.1 |
| 62.5° | 89.6 | 90.4 | 112.2 | 168.2 | 311.3 | 385.2 | 304.3 | 170.0 | 108.2 | 90.9 | 90.0 |
| 65° | 45.2 | 44.3 | 44.8 | 48.3 | 66.5 | 79.6 | 65.2 | 46.1 | 44.3 | 44.8 | 44.3 |
| 67.5° | 29.1 | 28.7 | 29.6 | 30.0 | 29.6 | 27.8 | 27.4 | 28.3 | 28.3 | 28.7 | 27.8 |
| 70° | 17.8 | 17.4 | 18.3 | 19.6 | 18.7 | 16.5 | 17.4 | 18.3 | 17.4 | 17.0 | 17.0 |
| 72.5° | 9.6 | 9.6 | 10.4 | 11.3 | 10.4 | 9.6 | 9.6 | 10.0 | 9.6 | 9.6 | 9.6 |
| 75° | 4.3 | 4.3 | 4.8 | 5.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 77.5° | 1.3 | 1.3 | 1.7 | 1.7 | 1.3 | 1.3 | 1.3 | 1.3 | 1.7 | 1.7 | 1.7 |
| 80° | 0.4 | 0.9 | 0.9 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | 0.9 | 0.9 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 85° | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 |
| 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)