

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: P632021

Luminaire Tested: GWS-SA2B-830-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632021
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-SA2B-830-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW 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: 3857.8 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

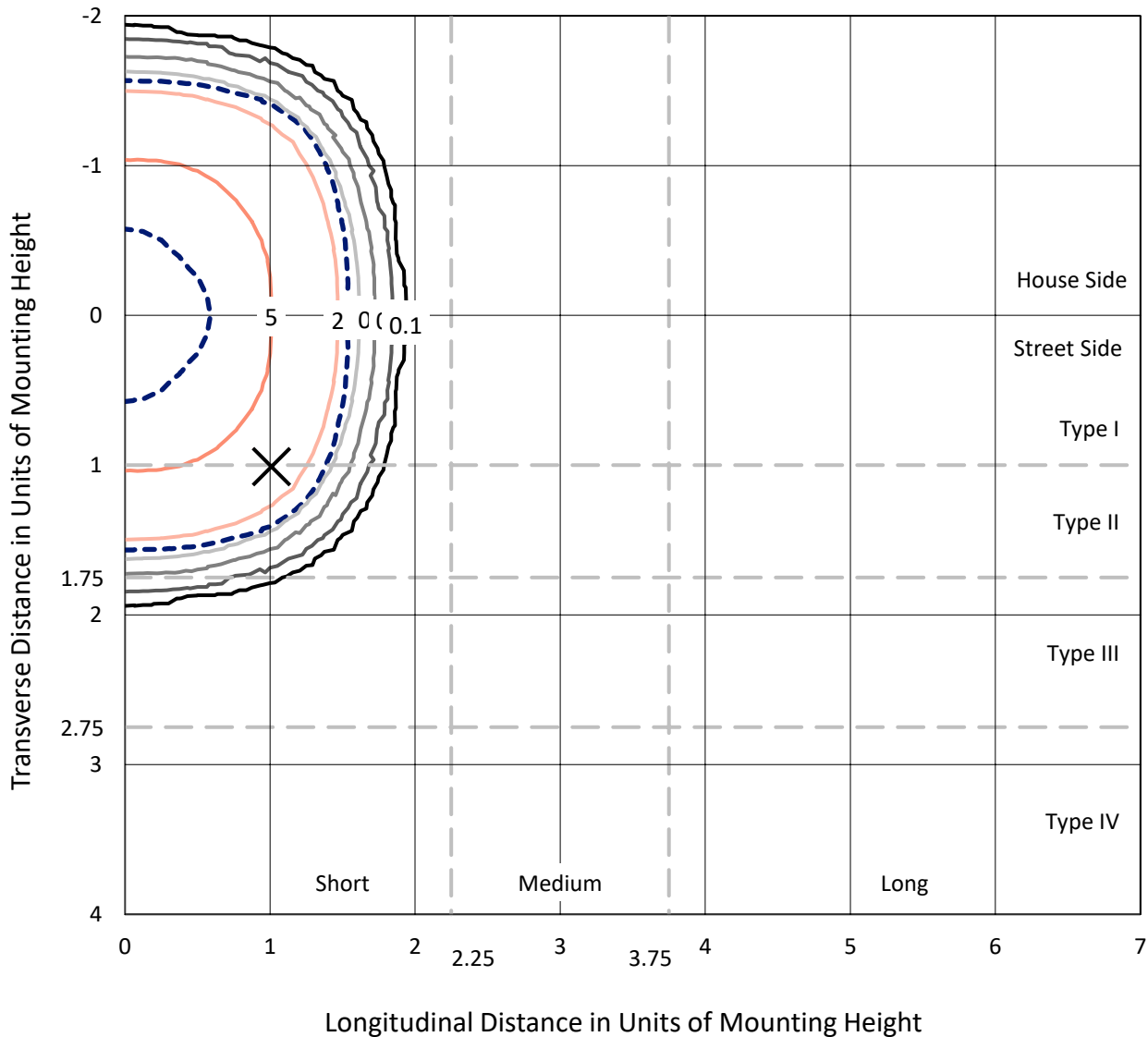
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

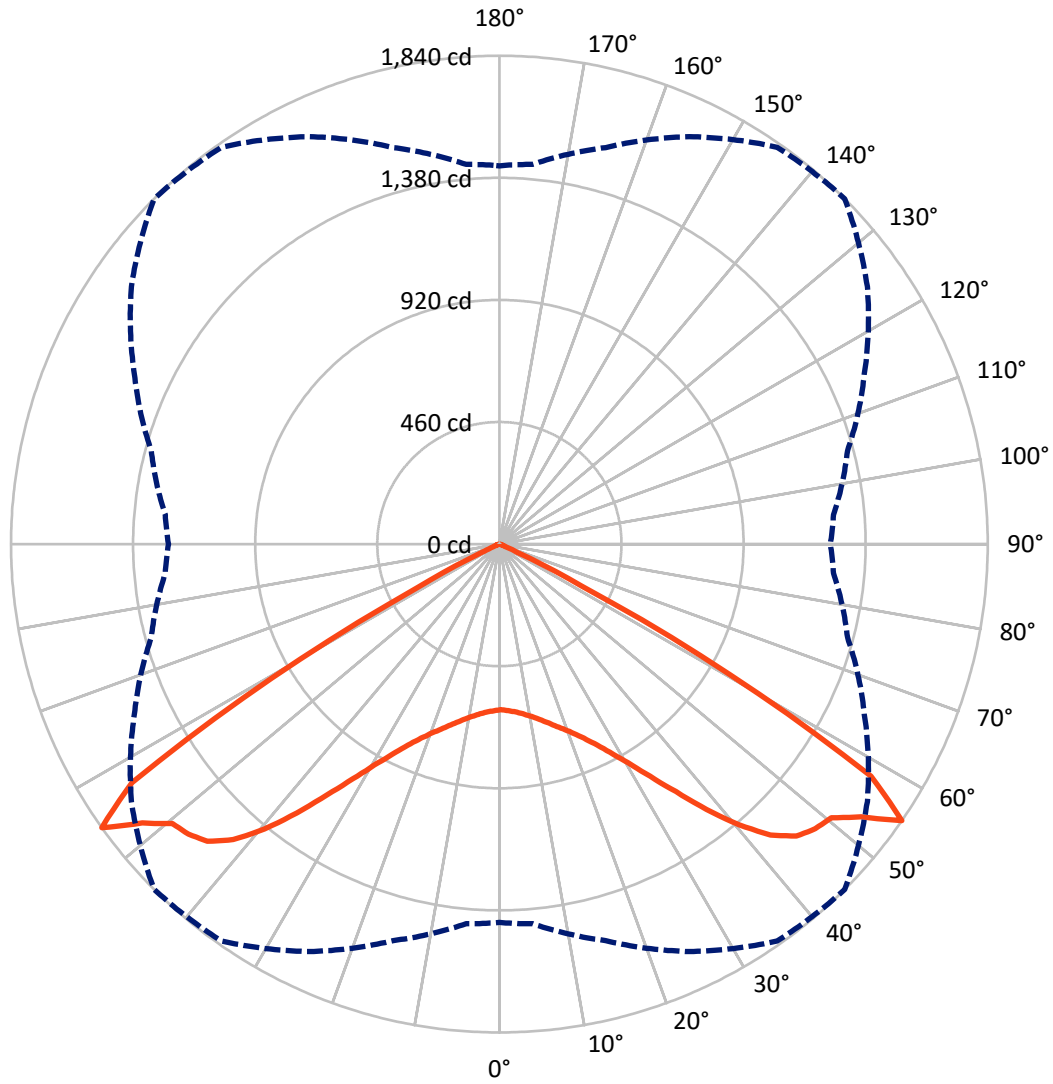
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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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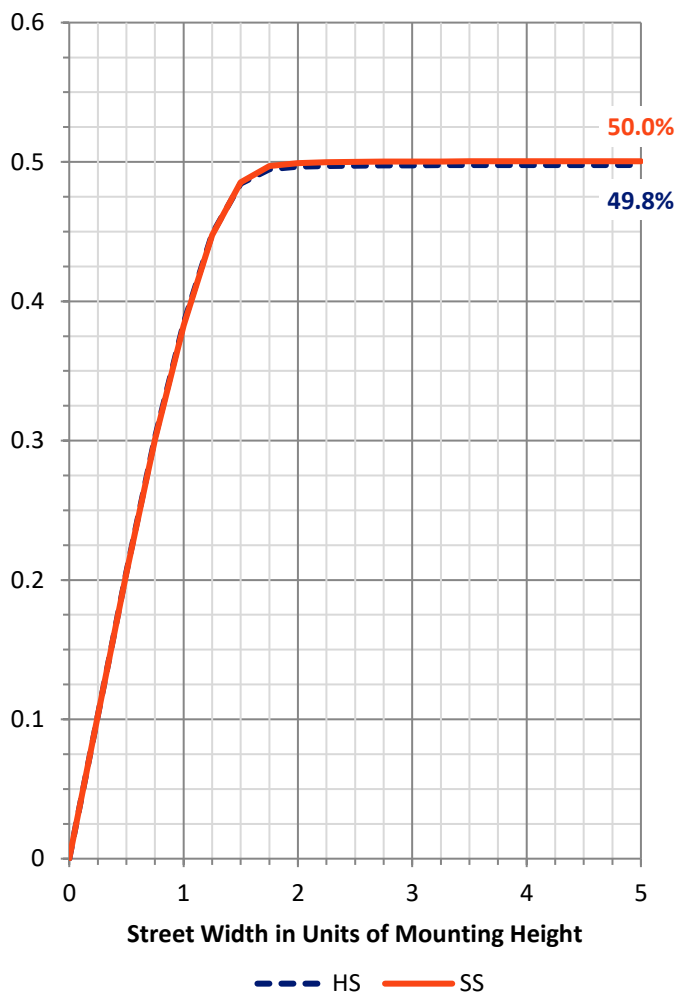
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1928.9 | 0.0 | 1928.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1928.9 | 0.0 | 1928.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3857.8 | 0.0 | 3857.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.1 | 1.6 |
| 10°-20° | 198.1 | 5.1 |
| 20°-30° | 383.6 | 9.9 |
| 30°-40° | 687.3 | 17.8 |
| 40°-50° | 1152.3 | 29.9 |
| 50°-60° | 1233.5 | 32.0 |
| 60°-70° | 135.5 | 3.5 |
| 70°-80° | 6.0 | 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° | 3857.8 | 100.0 |
| 0°-180° | 3857.8 | 100.0 |

Coefficient of Utilization



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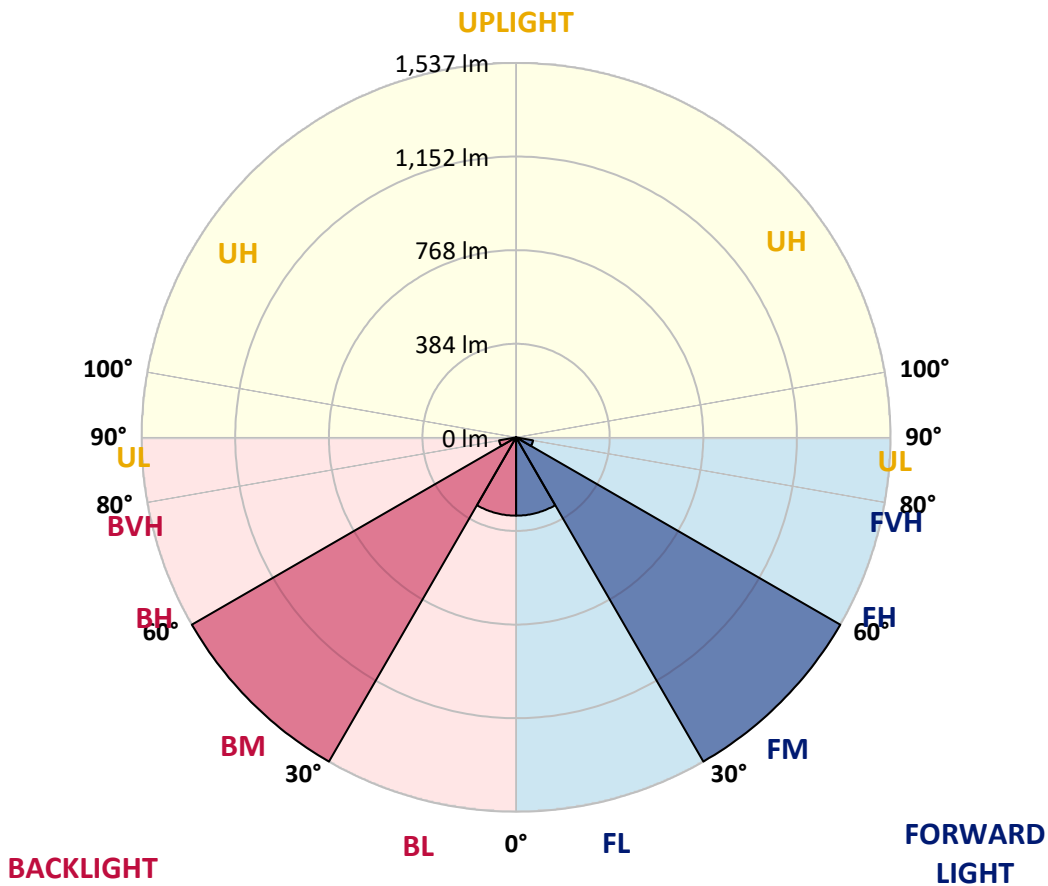
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 321.4 | 8.3 | | | |
| FM (30°-60°) | 1536.6 | 39.8 | | | |
| FH (60°-80°) | 70.7 | 1.8 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 321.4 | 8.3 | B1/500 | | |
| BM (30°-60°) | 1536.6 | 39.8 | B2/2500 | | |
| BH (60°-80°) | 70.7 | 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° | 623.7 | 623.7 | 623.7 | 623.7 | 623.7 | 623.7 | 623.7 | 623.7 | 623.7 | 623.7 | 623.7 |
| 2.5° | 622.6 | 622.6 | 624.1 | 625.3 | 625.3 | 628.4 | 627.3 | 626.1 | 626.1 | 624.5 | 627.7 |
| 5° | 631.6 | 631.2 | 632.8 | 633.6 | 632.0 | 635.1 | 633.2 | 632.0 | 631.2 | 629.6 | 632.8 |
| 7.5° | 641.4 | 641.8 | 642.2 | 643.8 | 643.0 | 646.1 | 644.6 | 642.2 | 641.4 | 639.1 | 642.2 |
| 10° | 653.2 | 653.2 | 654.0 | 656.0 | 656.4 | 660.3 | 658.7 | 656.0 | 653.6 | 651.2 | 654.4 |
| 12.5° | 668.1 | 668.5 | 669.7 | 672.5 | 674.0 | 678.4 | 676.0 | 670.5 | 667.0 | 664.2 | 667.8 |
| 15° | 689.8 | 689.4 | 690.9 | 694.9 | 696.8 | 700.0 | 696.4 | 689.0 | 684.7 | 681.5 | 683.9 |
| 17.5° | 713.3 | 713.3 | 714.1 | 718.1 | 720.8 | 725.5 | 721.2 | 712.2 | 708.2 | 703.9 | 706.3 |
| 20° | 739.3 | 740.5 | 741.2 | 744.0 | 748.7 | 753.4 | 749.9 | 740.9 | 736.5 | 731.0 | 733.8 |
| 22.5° | 773.5 | 772.3 | 772.7 | 777.4 | 784.1 | 788.8 | 786.1 | 775.4 | 768.0 | 763.6 | 765.2 |
| 25° | 811.6 | 811.2 | 812.4 | 819.5 | 826.9 | 832.0 | 828.1 | 814.3 | 806.9 | 799.4 | 802.6 |
| 27.5° | 858.4 | 858.8 | 859.5 | 868.2 | 880.0 | 887.5 | 877.6 | 863.9 | 853.7 | 843.8 | 846.2 |
| 30° | 913.8 | 913.0 | 915.4 | 927.1 | 944.4 | 956.2 | 944.8 | 925.6 | 911.0 | 901.6 | 902.8 |
| 32.5° | 972.7 | 973.5 | 979.8 | 998.7 | 1021.5 | 1042.3 | 1019.1 | 993.6 | 974.7 | 957.0 | 959.4 |
| 35° | 1036.4 | 1038.4 | 1052.5 | 1080.4 | 1117.8 | 1145.7 | 1113.4 | 1071.4 | 1044.7 | 1021.9 | 1022.7 |
| 37.5° | 1111.5 | 1116.2 | 1135.8 | 1177.5 | 1231.0 | 1268.3 | 1221.1 | 1165.3 | 1130.7 | 1102.4 | 1100.5 |
| 40° | 1210.1 | 1215.6 | 1242.4 | 1291.9 | 1356.7 | 1390.9 | 1336.3 | 1278.9 | 1236.1 | 1205.4 | 1200.7 |
| 42.5° | 1323.3 | 1330.4 | 1359.5 | 1410.2 | 1475.0 | 1498.2 | 1444.8 | 1396.4 | 1357.9 | 1321.7 | 1320.2 |
| 45° | 1451.1 | 1455.0 | 1478.6 | 1517.5 | 1564.2 | 1569.7 | 1529.7 | 1502.9 | 1464.0 | 1430.2 | 1427.5 |
| 47.5° | 1570.9 | 1574.9 | 1591.0 | 1611.0 | 1622.0 | 1602.4 | 1595.3 | 1583.5 | 1533.2 | 1491.5 | 1482.9 |
| 50° | 1662.1 | 1665.3 | 1685.3 | 1693.2 | 1662.5 | 1620.8 | 1634.6 | 1609.4 | 1554.8 | 1508.0 | 1494.7 |
| 52.5° | 1655.8 | 1663.7 | 1715.2 | 1760.0 | 1740.7 | 1706.9 | 1670.0 | 1615.7 | 1530.8 | 1466.8 | 1450.3 |
| 55° | 1425.5 | 1436.1 | 1546.6 | 1693.9 | 1825.6 | 1840.1 | 1692.4 | 1517.5 | 1357.9 | 1264.0 | 1247.1 |
| 57.5° | 916.1 | 918.9 | 1053.7 | 1260.4 | 1557.2 | 1650.7 | 1403.5 | 1144.1 | 945.6 | 842.3 | 835.2 |
| 60° | 336.8 | 331.3 | 433.1 | 604.5 | 896.9 | 995.9 | 826.1 | 578.5 | 412.7 | 339.6 | 333.7 |
| 62.5° | 81.0 | 81.7 | 101.4 | 152.1 | 281.4 | 348.2 | 275.1 | 153.7 | 97.9 | 82.1 | 81.4 |
| 65° | 40.9 | 40.1 | 40.5 | 43.6 | 60.1 | 71.9 | 59.0 | 41.7 | 40.1 | 40.5 | 40.1 |
| 67.5° | 26.3 | 25.9 | 26.7 | 27.1 | 26.7 | 25.2 | 24.8 | 25.5 | 25.5 | 25.9 | 25.2 |
| 70° | 16.1 | 15.7 | 16.5 | 17.7 | 16.9 | 14.9 | 15.7 | 16.5 | 15.7 | 15.3 | 15.3 |
| 72.5° | 8.6 | 8.6 | 9.4 | 10.2 | 9.4 | 8.6 | 8.6 | 9.0 | 8.6 | 8.6 | 8.6 |
| 75° | 3.9 | 3.9 | 4.3 | 4.7 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 77.5° | 1.2 | 1.2 | 1.6 | 1.6 | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 | 1.6 | 1.6 |
| 80° | 0.4 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 |
| 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)