

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: P630044

Luminaire Tested: GWS-SA1C-830-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630044
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-SA1C-830-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2009.4 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G0

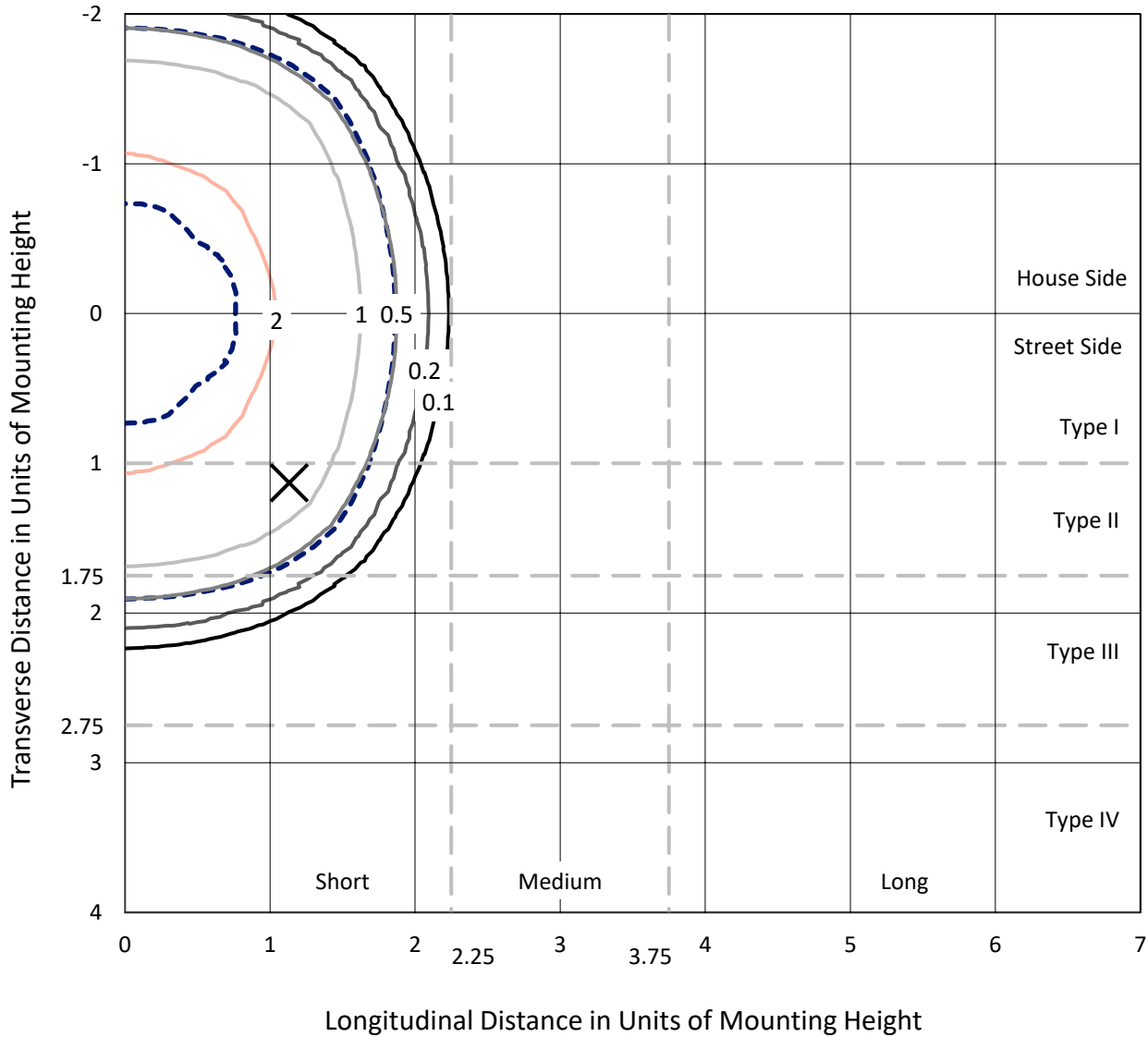
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

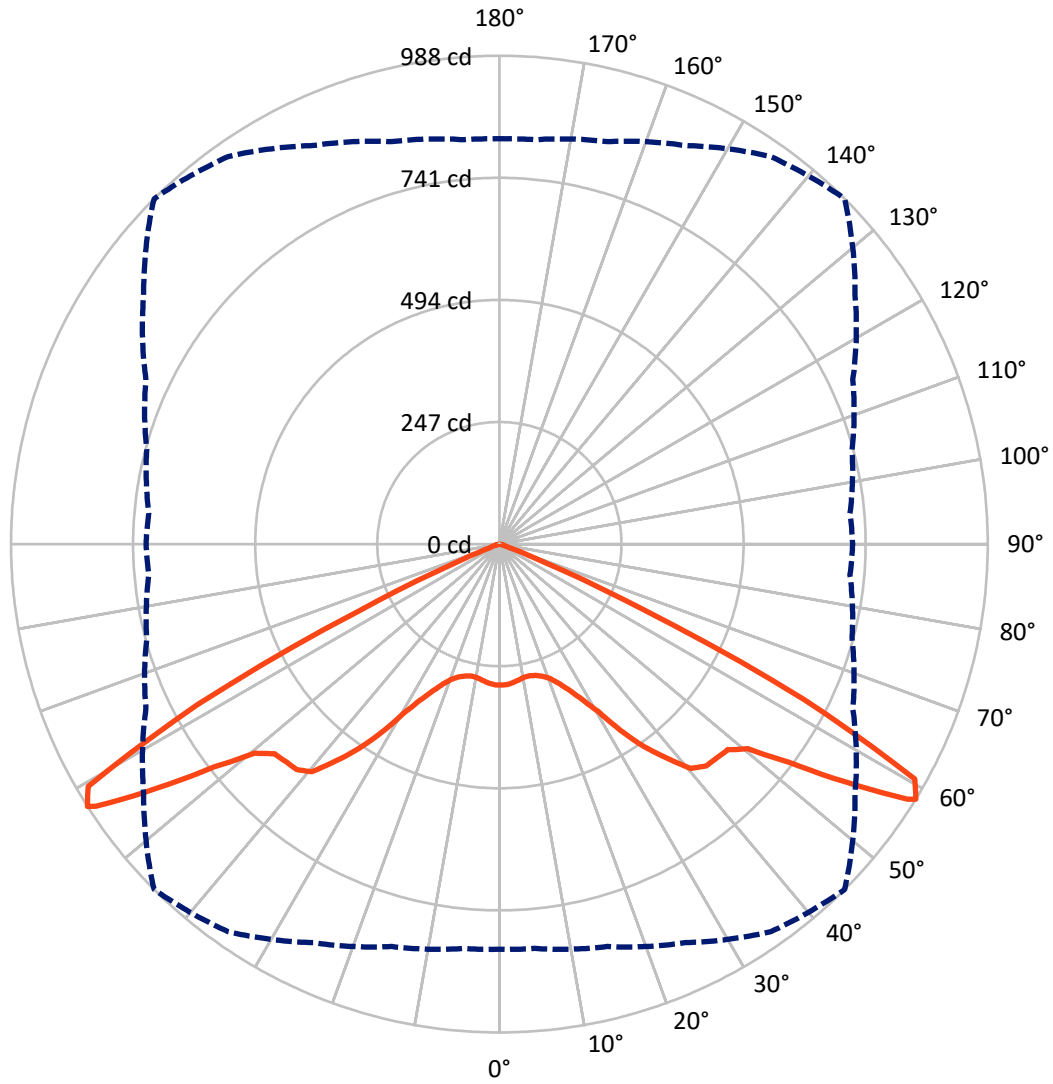
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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 58-Deg Vertical

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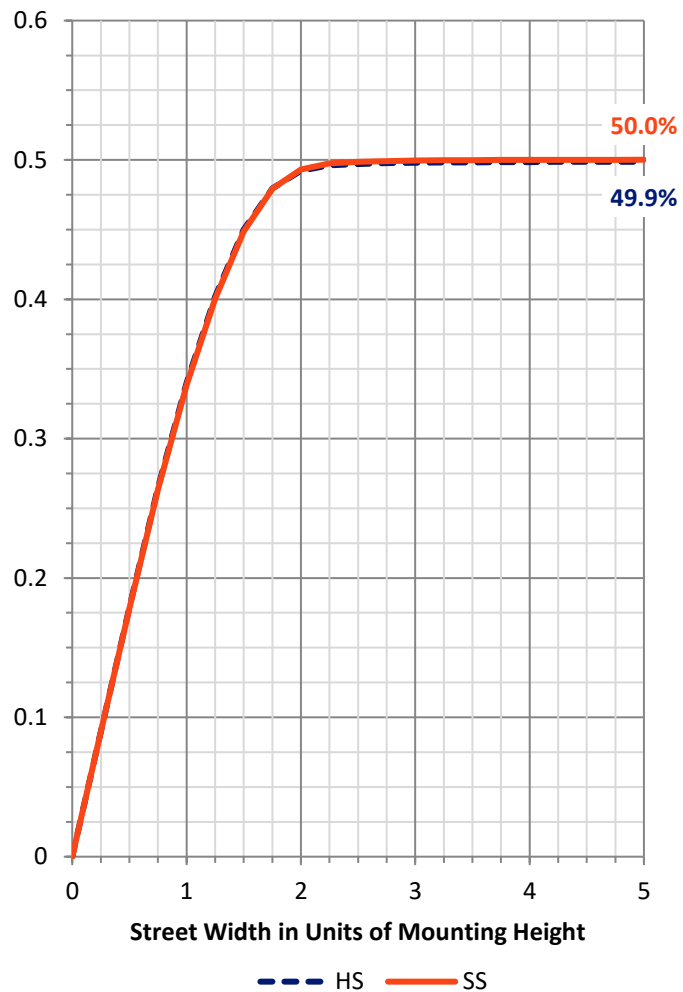
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1004.7 | 0.0 | 1004.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1004.7 | 0.0 | 1004.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2009.4 | 0.0 | 2009.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.6 | 1.3 |
| 10°-20° | 78.7 | 3.9 |
| 20°-30° | 148.8 | 7.4 |
| 30°-40° | 293.4 | 14.6 |
| 40°-50° | 464.4 | 23.1 |
| 50°-60° | 682.6 | 34.0 |
| 60°-70° | 304.7 | 15.2 |
| 70°-80° | 10.2 | 0.5 |
| 80°-90° | 0.1 | 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° | 2009.4 | 100.0 |
| 0°-180° | 2009.4 | 100.0 |

Coefficient of Utilization



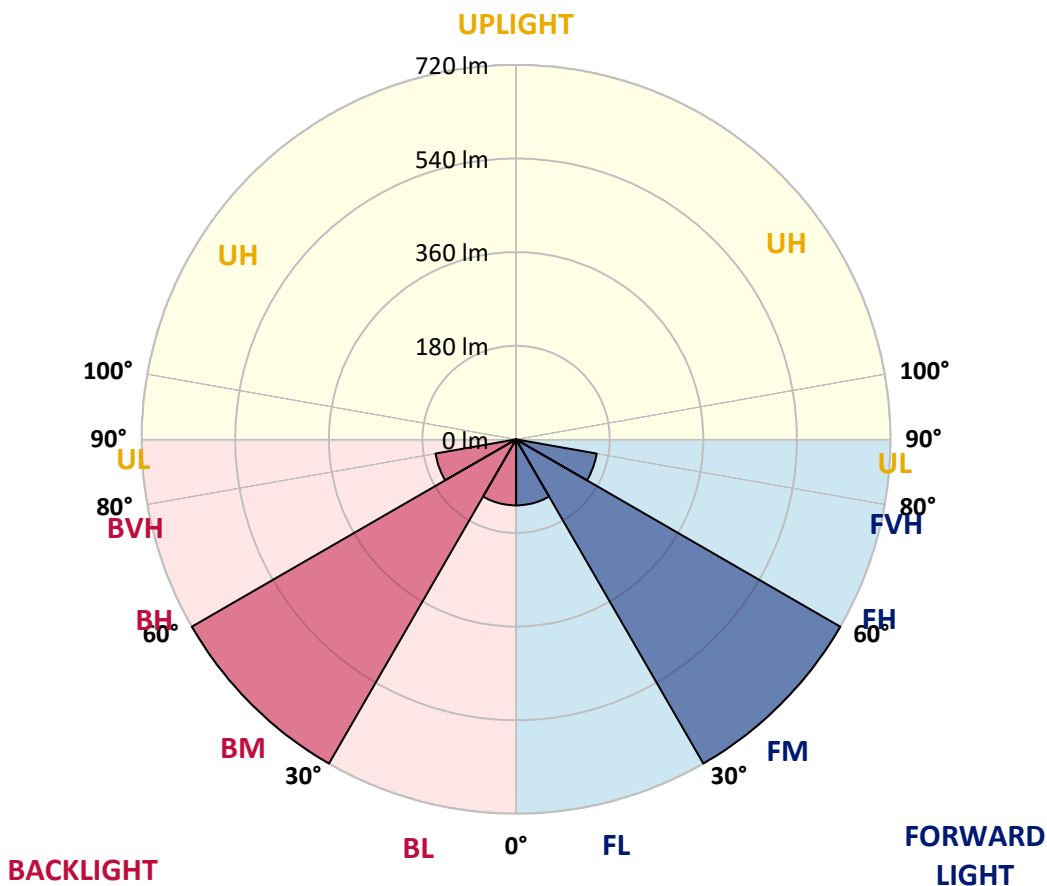
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 127.0 | 6.3 | | | |
| FM (30°-60°) | 720.2 | 35.8 | | | |
| FH (60°-80°) | 157.4 | 7.8 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 127.0 | 6.3 | B1/500 | | |
| BM (30°-60°) | 720.2 | 35.8 | B1/1000 | | |
| BH (60°-80°) | 157.4 | 7.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 285.0 | 285.0 | 285.0 | 285.0 | 285.0 | 285.0 | 285.0 | 285.0 | 285.0 | 285.0 | 285.0 |
| 2.5° | 282.2 | 282.8 | 283.3 | 283.6 | 283.9 | 284.7 | 285.0 | 284.1 | 284.1 | 282.5 | 284.4 |
| 5° | 280.9 | 281.4 | 281.9 | 281.7 | 281.7 | 281.7 | 281.4 | 280.3 | 280.0 | 278.4 | 280.3 |
| 7.5° | 278.4 | 278.9 | 278.9 | 278.1 | 277.6 | 277.6 | 277.3 | 275.9 | 275.7 | 274.0 | 275.9 |
| 10° | 276.5 | 276.7 | 276.5 | 274.8 | 273.7 | 273.7 | 273.5 | 272.9 | 273.2 | 272.1 | 273.7 |
| 12.5° | 277.6 | 277.8 | 276.7 | 274.6 | 273.2 | 272.9 | 272.1 | 271.3 | 272.1 | 271.8 | 273.5 |
| 15° | 281.1 | 281.4 | 279.5 | 276.7 | 275.7 | 275.7 | 273.5 | 271.3 | 272.4 | 272.6 | 274.6 |
| 17.5° | 285.5 | 285.5 | 283.0 | 280.6 | 280.9 | 280.9 | 277.3 | 273.5 | 273.7 | 274.8 | 276.7 |
| 20° | 290.7 | 290.7 | 288.2 | 287.7 | 289.6 | 289.9 | 285.5 | 279.5 | 278.1 | 278.9 | 281.1 |
| 22.5° | 300.0 | 300.0 | 298.1 | 299.5 | 303.8 | 305.2 | 298.6 | 290.2 | 286.9 | 287.4 | 289.6 |
| 25° | 314.5 | 314.5 | 314.0 | 317.3 | 323.6 | 326.6 | 317.8 | 306.6 | 301.1 | 300.3 | 302.8 |
| 27.5° | 338.9 | 339.2 | 338.3 | 343.3 | 351.2 | 354.8 | 342.7 | 327.9 | 321.4 | 320.0 | 322.5 |
| 30° | 370.4 | 370.4 | 370.6 | 377.5 | 387.9 | 392.5 | 376.7 | 359.4 | 351.8 | 347.4 | 350.7 |
| 32.5° | 405.4 | 406.0 | 408.7 | 420.2 | 438.5 | 448.1 | 424.8 | 400.8 | 388.4 | 383.8 | 387.3 |
| 35° | 463.2 | 458.0 | 454.7 | 463.2 | 489.7 | 502.3 | 472.5 | 444.3 | 435.0 | 434.4 | 443.5 |
| 37.5° | 520.4 | 517.4 | 510.5 | 519.3 | 543.1 | 548.8 | 516.0 | 492.5 | 485.9 | 489.4 | 498.5 |
| 40° | 565.8 | 560.3 | 551.3 | 559.5 | 590.7 | 596.5 | 556.0 | 532.7 | 530.2 | 538.2 | 550.5 |
| 42.5° | 601.7 | 594.0 | 582.0 | 583.9 | 609.1 | 613.2 | 577.3 | 559.8 | 561.4 | 571.3 | 585.2 |
| 45° | 617.8 | 611.8 | 601.1 | 600.3 | 616.2 | 616.5 | 588.3 | 579.2 | 583.6 | 591.3 | 602.2 |
| 47.5° | 624.7 | 621.9 | 615.9 | 614.5 | 623.6 | 621.4 | 603.9 | 600.0 | 604.1 | 606.3 | 612.6 |
| 50° | 641.6 | 641.6 | 642.5 | 643.6 | 652.9 | 650.7 | 638.4 | 634.0 | 628.8 | 621.1 | 623.0 |
| 52.5° | 689.3 | 691.2 | 699.1 | 707.9 | 724.9 | 732.0 | 712.0 | 686.5 | 661.6 | 644.9 | 644.9 |
| 55° | 775.2 | 777.1 | 786.4 | 801.2 | 832.4 | 849.4 | 802.9 | 746.8 | 712.5 | 689.8 | 692.8 |
| 57.5° | 822.6 | 824.8 | 843.9 | 883.9 | 944.4 | 973.1 | 873.2 | 790.0 | 742.1 | 716.1 | 718.3 |
| 58° | 819.6 | 820.9 | 842.6 | 889.4 | 956.7 | 987.6 | 878.1 | 788.6 | 738.3 | 711.7 | 714.5 |
| 60° | 728.1 | 726.2 | 760.7 | 827.5 | 922.5 | 965.2 | 829.1 | 719.9 | 661.3 | 634.2 | 635.6 |
| 62.5° | 476.0 | 477.1 | 507.0 | 576.8 | 650.7 | 690.9 | 579.2 | 497.9 | 450.8 | 434.4 | 430.3 |
| 65° | 198.7 | 195.2 | 213.5 | 252.4 | 296.7 | 319.2 | 274.3 | 232.1 | 203.1 | 192.2 | 195.2 |
| 67.5° | 51.2 | 49.8 | 50.9 | 63.8 | 78.0 | 92.2 | 77.5 | 59.1 | 51.5 | 52.0 | 52.0 |
| 70° | 29.0 | 27.4 | 22.2 | 20.5 | 20.0 | 20.0 | 20.0 | 20.0 | 23.0 | 27.1 | 27.9 |
| 72.5° | 21.9 | 20.5 | 16.2 | 14.0 | 12.3 | 11.5 | 12.0 | 14.0 | 16.7 | 20.3 | 20.8 |
| 75° | 10.9 | 10.9 | 9.9 | 9.3 | 8.2 | 7.7 | 7.9 | 8.8 | 10.1 | 11.5 | 11.2 |
| 77.5° | 2.2 | 2.5 | 2.7 | 3.3 | 2.7 | 2.7 | 2.7 | 3.3 | 3.3 | 3.6 | 3.3 |
| 80° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 82.5° | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 |
| 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)