

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: P639729

Luminaire Tested: GWS-SA5C-740-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

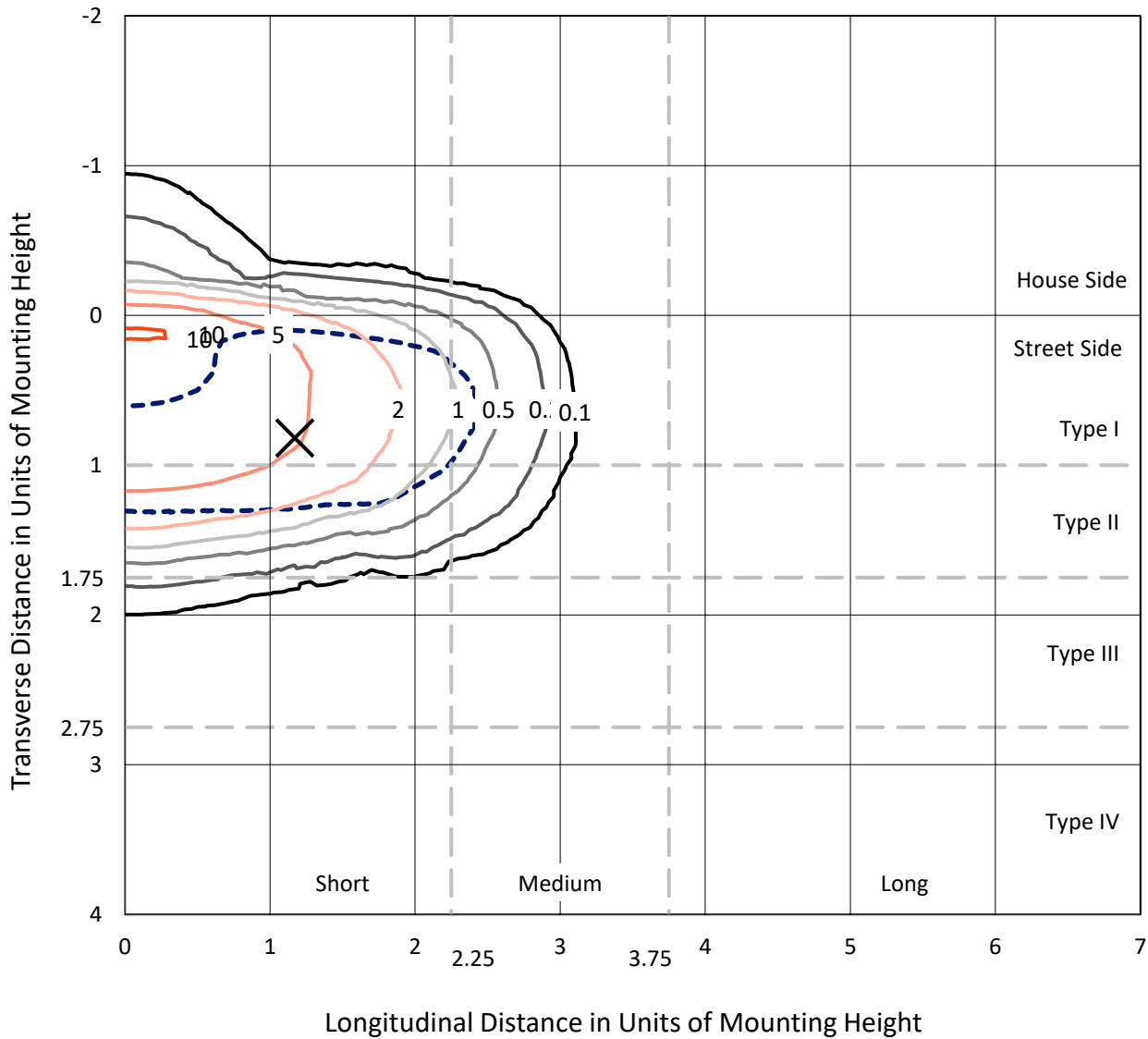
Lumens per Lamp: N/A  
Luminaire Lumens: 19969.1 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

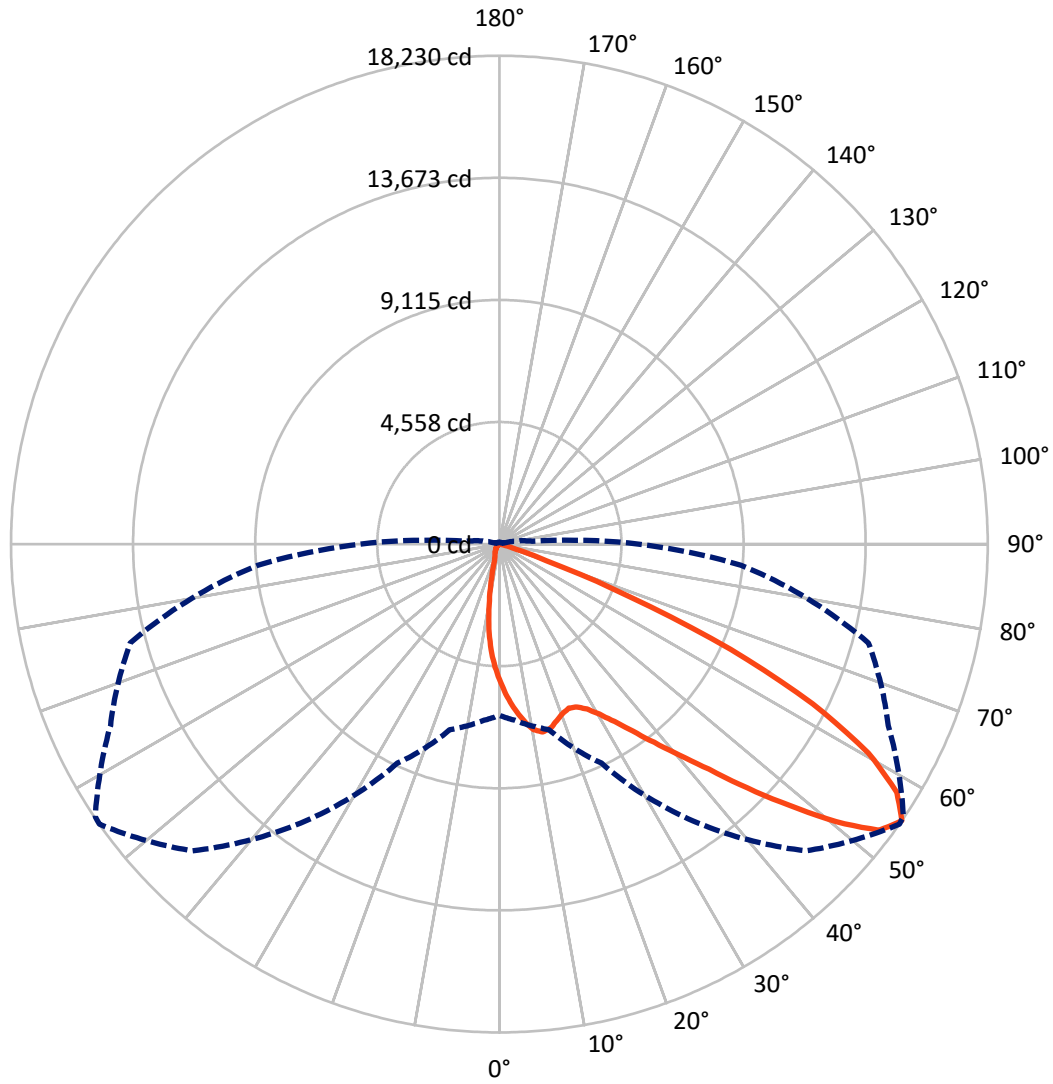
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1232.2   | 0.0    | 1232.2  |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 18736.9  | 0.0    | 18736.9 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 19969.1  | 0.0    | 19969.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 455.9   | 2.3       |
| 10°-20°   | 1099.2  | 5.5       |
| 20°-30°   | 1830.5  | 9.2       |
| 30°-40°   | 3119.3  | 15.6      |
| 40°-50°   | 5091.9  | 25.5      |
| 50°-60°   | 5330.9  | 26.7      |
| 60°-70°   | 2688.8  | 13.5      |
| 70°-80°   | 339.6   | 1.7       |
| 80°-90°   | 12.9    | 0.1       |
| 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°    | 19969.1 | 100.0     |
| 0°-180°   | 19969.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P639729

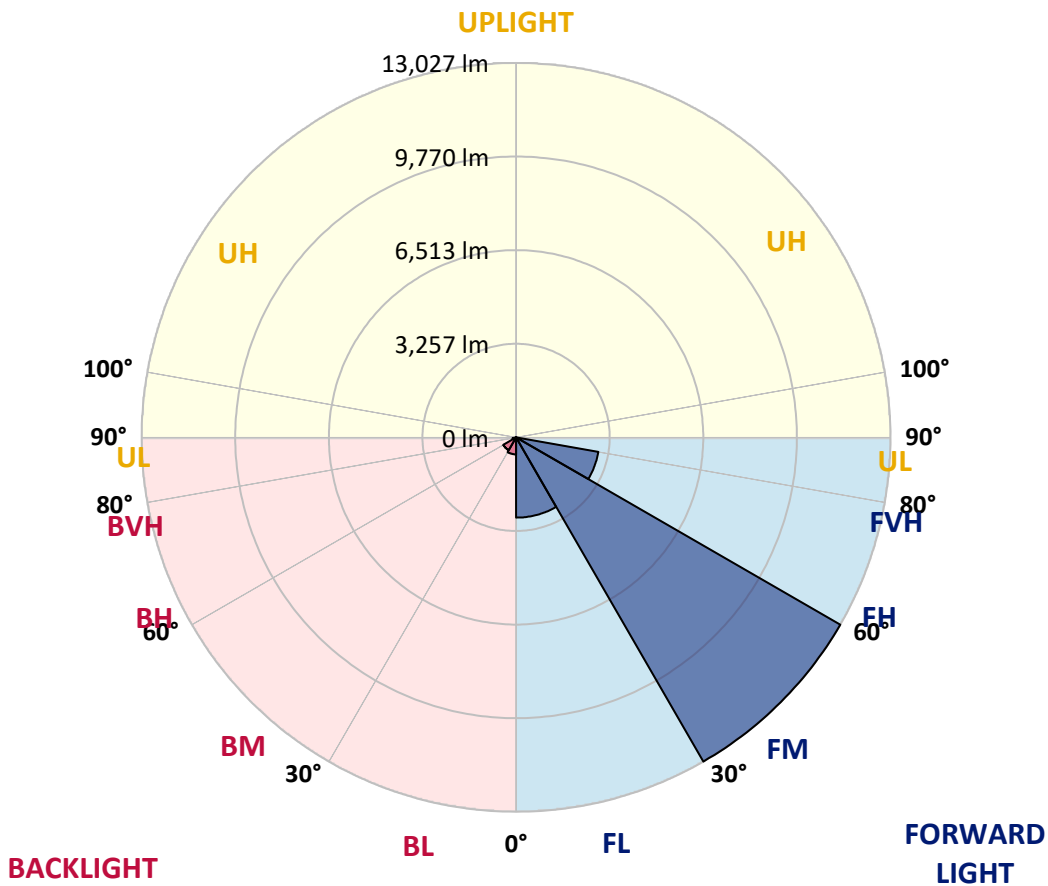
CATALOG NUMBER: GWS-SA5C-740-U-AFL-W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2793.4  | 14.0      |                         |      |         |
| FM (30°-60°)   | 13026.9 | 65.2      |                         |      |         |
| FH (60°-80°)   | 2904.8  | 14.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 11.7    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 592.2   | 3.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 515.2   | 2.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 123.6   | 0.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.2     | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 5158.8  | 5158.8  | 5158.8  | 5158.8  | 5158.8  | 5158.8  | 5158.8  | 5158.8  | 5158.8  | 5158.8  | 5158.8 |
| 2.5°  | 6014.1  | 5985.1  | 6029.5  | 5978.3  | 5891.2  | 5817.8  | 5722.2  | 5688.0  | 5534.4  | 5389.3  | 5249.3 |
| 5°    | 6744.7  | 6753.3  | 6739.6  | 6667.9  | 6545.0  | 6408.4  | 6215.5  | 6172.9  | 5904.8  | 5628.3  | 5329.6 |
| 7.5°  | 6925.7  | 6920.6  | 6949.6  | 6976.9  | 6956.4  | 6888.1  | 6678.2  | 6635.5  | 6302.6  | 5887.8  | 5452.5 |
| 10°   | 6367.5  | 6370.9  | 6430.6  | 6615.0  | 6843.8  | 7081.0  | 7048.6  | 7024.7  | 6698.6  | 6181.4  | 5589.0 |
| 12.5° | 5578.8  | 5609.5  | 5672.7  | 5935.6  | 6323.1  | 6862.5  | 7197.1  | 7221.0  | 7062.3  | 6504.0  | 5749.5 |
| 15°   | 5237.4  | 5244.2  | 5295.4  | 5454.2  | 5742.7  | 6408.4  | 7134.0  | 7200.5  | 7366.1  | 6828.4  | 5923.6 |
| 17.5° | 5228.8  | 5237.4  | 5259.6  | 5329.6  | 5517.3  | 6051.7  | 6930.8  | 7046.9  | 7594.9  | 7176.6  | 6131.9 |
| 20°   | 5549.8  | 5544.6  | 5529.3  | 5491.7  | 5573.7  | 5933.9  | 6743.0  | 6871.1  | 7719.5  | 7516.3  | 6341.9 |
| 22.5° | 6131.9  | 6125.1  | 6056.8  | 5901.4  | 5834.9  | 6041.4  | 6650.8  | 6766.9  | 7794.6  | 7818.5  | 6514.3 |
| 25°   | 6802.8  | 6850.6  | 6722.5  | 6487.0  | 6323.1  | 6316.3  | 6732.8  | 6814.7  | 7859.5  | 8086.5  | 6632.1 |
| 27.5° | 7538.5  | 7553.9  | 7444.6  | 7180.0  | 6942.8  | 6756.7  | 6970.1  | 7031.5  | 7931.2  | 8325.5  | 6698.6 |
| 30°   | 8346.0  | 8340.9  | 8216.3  | 7909.0  | 7620.5  | 7352.5  | 7369.5  | 7393.4  | 8098.5  | 8598.6  | 6772.1 |
| 32.5° | 9354.9  | 9377.1  | 9155.2  | 8736.9  | 8390.4  | 8019.9  | 7891.9  | 7895.3  | 8400.6  | 8950.3  | 6883.0 |
| 35°   | 10725.7 | 10671.1 | 10377.4 | 9781.7  | 9191.0  | 8791.5  | 8573.0  | 8554.3  | 8866.7  | 9423.2  | 7075.9 |
| 37.5° | 12031.6 | 12036.7 | 11729.5 | 11073.9 | 10327.9 | 9698.0  | 9389.0  | 9337.8  | 9522.2  | 10078.7 | 7396.8 |
| 40°   | 12938.1 | 12955.2 | 12827.1 | 12484.0 | 11693.6 | 10802.5 | 10348.4 | 10295.5 | 10372.3 | 10908.3 | 7816.8 |
| 42.5° | 13417.8 | 13465.6 | 13501.4 | 13581.7 | 12982.5 | 12181.8 | 11483.6 | 11478.5 | 11398.3 | 11854.1 | 8303.3 |
| 45°   | 13436.6 | 13508.3 | 13726.8 | 14274.7 | 14343.0 | 13755.8 | 12996.1 | 12881.8 | 12572.8 | 12866.4 | 8738.6 |
| 47.5° | 12694.0 | 12859.6 | 13323.9 | 14409.6 | 15126.6 | 15321.2 | 14568.4 | 14498.4 | 13631.2 | 13667.0 | 9064.7 |
| 50°   | 10963.0 | 11135.4 | 11990.6 | 13718.2 | 15324.6 | 16564.0 | 16294.2 | 16149.1 | 14515.4 | 14196.2 | 9221.7 |
| 52.5° | 9187.6  | 9344.6  | 9925.1  | 12072.6 | 14503.5 | 16954.9 | 17748.7 | 17576.3 | 15309.2 | 14380.6 | 9156.9 |
| 55°   | 6393.1  | 6603.0  | 7169.8  | 9023.7  | 12612.0 | 16193.5 | 18230.1 | 18194.2 | 16017.7 | 14264.5 | 9056.1 |
| 57.5° | 3134.2  | 3342.5  | 3907.5  | 5563.4  | 9342.9  | 14138.2 | 17494.3 | 17683.8 | 16441.0 | 14139.9 | 8974.2 |
| 60°   | 1309.3  | 1394.7  | 1589.3  | 2441.1  | 5227.1  | 10684.7 | 15833.3 | 16096.2 | 16181.6 | 13970.9 | 8965.7 |
| 62.5° | 759.7   | 773.3   | 793.8   | 1012.3  | 2033.2  | 6125.1  | 13134.4 | 13508.3 | 14817.6 | 13747.2 | 8830.8 |
| 65°   | 573.6   | 578.7   | 570.2   | 621.4   | 839.9   | 2323.4  | 9489.7  | 9998.5  | 12367.9 | 12873.2 | 8298.2 |
| 67.5° | 471.2   | 471.2   | 449.0   | 459.2   | 527.5   | 870.6   | 5239.1  | 5949.2  | 9151.7  | 10580.6 | 6852.3 |
| 70°   | 375.6   | 384.1   | 373.9   | 360.2   | 377.3   | 481.4   | 1864.1  | 2311.4  | 5329.6  | 6248.0  | 3996.3 |
| 72.5° | 285.1   | 285.1   | 302.2   | 291.9   | 280.0   | 302.2   | 650.4   | 730.6   | 2139.0  | 2605.0  | 1442.5 |
| 75°   | 220.2   | 227.0   | 239.0   | 228.8   | 211.7   | 179.2   | 312.4   | 331.2   | 645.3   | 606.0   | 322.6  |
| 77.5° | 112.7   | 114.4   | 151.9   | 167.3   | 157.1   | 109.3   | 136.6   | 150.2   | 210.0   | 187.8   | 119.5  |
| 80°   | 68.3    | 71.7    | 85.4    | 131.4   | 104.1   | 58.0    | 56.3    | 59.7    | 99.0    | 85.4    | 49.5   |
| 82.5° | 29.0    | 30.7    | 47.8    | 47.8    | 42.7    | 22.2    | 22.2    | 22.2    | 47.8    | 44.4    | 20.5   |
| 85°   | 0.0     | 0.0     | 8.5     | 6.8     | 6.8     | 8.5     | 8.5     | 8.5     | 11.9    | 17.1    | 10.2   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.7     | 5.1     | 5.1    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |



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CATALOG NUMBER: GWS-SA5C-740-U-AFL-W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5158.8 | 5158.8 | 5158.8 | 5158.8 | 5158.8 | 5158.8 | 5158.8 | 5158.8 | 5158.8 | 5158.8 | 5158.8 |
| 2.5°  | 5158.8 | 5049.6 | 4902.8 | 4769.6 | 4590.4 | 4489.7 | 4349.7 | 4235.3 | 4138.0 | 4107.3 | 4093.6 |
| 5°    | 5160.6 | 4972.8 | 4658.7 | 4344.6 | 3958.8 | 3654.9 | 3342.5 | 3095.0 | 2891.8 | 2827.0 | 2809.9 |
| 7.5°  | 5194.7 | 4918.1 | 4409.4 | 3839.3 | 3194.0 | 2661.4 | 2185.1 | 1758.3 | 1560.3 | 1493.7 | 1480.1 |
| 10°   | 5240.8 | 4872.1 | 4120.9 | 3233.2 | 2306.3 | 1621.7 | 1148.9 | 875.7  | 746.0  | 674.3  | 684.5  |
| 12.5° | 5300.5 | 4834.5 | 3801.7 | 2577.7 | 1526.1 | 891.1  | 631.6  | 529.2  | 501.9  | 488.2  | 481.4  |
| 15°   | 5380.8 | 4790.1 | 3405.7 | 1927.3 | 935.5  | 573.6  | 486.5  | 459.2  | 449.0  | 442.1  | 440.4  |
| 17.5° | 5462.7 | 4738.9 | 3002.8 | 1355.4 | 621.4  | 476.3  | 437.0  | 423.4  | 416.5  | 411.4  | 409.7  |
| 20°   | 5549.8 | 4651.8 | 2529.9 | 933.8  | 489.9  | 428.5  | 402.9  | 387.5  | 379.0  | 370.4  | 368.7  |
| 22.5° | 5587.3 | 4511.9 | 2077.5 | 653.8  | 435.3  | 394.3  | 361.9  | 343.1  | 332.9  | 326.1  | 326.1  |
| 25°   | 5551.5 | 4284.8 | 1609.8 | 496.8  | 396.0  | 356.8  | 324.3  | 303.9  | 295.3  | 288.5  | 288.5  |
| 27.5° | 5455.9 | 3992.9 | 1174.5 | 411.4  | 353.4  | 317.5  | 286.8  | 268.0  | 261.2  | 257.8  | 257.8  |
| 30°   | 5350.0 | 3624.2 | 827.9  | 353.4  | 305.6  | 276.5  | 250.9  | 239.0  | 237.3  | 233.9  | 233.9  |
| 32.5° | 5259.6 | 3279.3 | 570.2  | 310.7  | 269.7  | 240.7  | 223.6  | 218.5  | 220.2  | 216.8  | 218.5  |
| 35°   | 5210.1 | 2941.3 | 423.4  | 276.5  | 240.7  | 213.4  | 204.9  | 204.9  | 204.9  | 203.1  | 203.1  |
| 37.5° | 5230.5 | 2608.4 | 344.8  | 252.7  | 215.1  | 194.6  | 186.1  | 189.5  | 192.9  | 192.9  | 192.9  |
| 40°   | 5333.0 | 2313.1 | 305.6  | 230.5  | 192.9  | 177.5  | 170.7  | 175.8  | 181.0  | 184.4  | 184.4  |
| 42.5° | 5462.7 | 2074.1 | 276.5  | 211.7  | 177.5  | 160.5  | 157.1  | 162.2  | 167.3  | 170.7  | 170.7  |
| 45°   | 5544.6 | 1833.4 | 247.5  | 187.8  | 162.2  | 141.7  | 141.7  | 148.5  | 146.8  | 148.5  | 148.5  |
| 47.5° | 5582.2 | 1642.2 | 218.5  | 162.2  | 138.3  | 122.9  | 124.6  | 128.0  | 124.6  | 128.0  | 128.0  |
| 50°   | 5490.0 | 1449.3 | 192.9  | 134.9  | 114.4  | 107.5  | 111.0  | 109.3  | 109.3  | 116.1  | 116.1  |
| 52.5° | 5321.0 | 1305.9 | 170.7  | 114.4  | 97.3   | 95.6   | 99.0   | 92.2   | 93.9   | 93.9   | 92.2   |
| 55°   | 5196.4 | 1224.0 | 151.9  | 99.0   | 83.6   | 85.4   | 83.6   | 71.7   | 64.9   | 58.0   | 56.3   |
| 57.5° | 5134.9 | 1191.6 | 138.3  | 88.8   | 75.1   | 75.1   | 68.3   | 49.5   | 37.6   | 29.0   | 25.6   |
| 60°   | 5121.3 | 1152.3 | 124.6  | 76.8   | 66.6   | 63.2   | 49.5   | 29.0   | 18.8   | 13.7   | 11.9   |
| 62.5° | 4991.6 | 1056.7 | 112.7  | 61.5   | 58.0   | 51.2   | 30.7   | 17.1   | 10.2   | 6.8    | 5.1    |
| 65°   | 4566.5 | 868.9  | 100.7  | 47.8   | 44.4   | 37.6   | 18.8   | 10.2   | 5.1    | 1.7    | 0.0    |
| 67.5° | 3632.7 | 616.3  | 88.8   | 35.8   | 30.7   | 23.9   | 11.9   | 6.8    | 1.7    | 0.0    | 0.0    |
| 70°   | 2094.6 | 332.9  | 73.4   | 25.6   | 20.5   | 15.4   | 8.5    | 3.4    | 0.0    | 0.0    | 0.0    |
| 72.5° | 699.9  | 155.3  | 56.3   | 17.1   | 15.4   | 11.9   | 5.1    | 1.7    | 0.0    | 0.0    | 0.0    |
| 75°   | 153.6  | 92.2   | 37.6   | 11.9   | 10.2   | 8.5    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 58.0   | 64.9   | 18.8   | 8.5    | 6.8    | 5.1    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 22.2   | 42.7   | 8.5    | 5.1    | 5.1    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 11.9   | 17.1   | 5.1    | 3.4    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 6.8    | 8.5    | 3.4    | 1.7    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.4    | 1.7    | 1.7    | 1.7    | 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)