

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: P633874

Luminaire Tested: GWS-SA2F-750-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-750-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

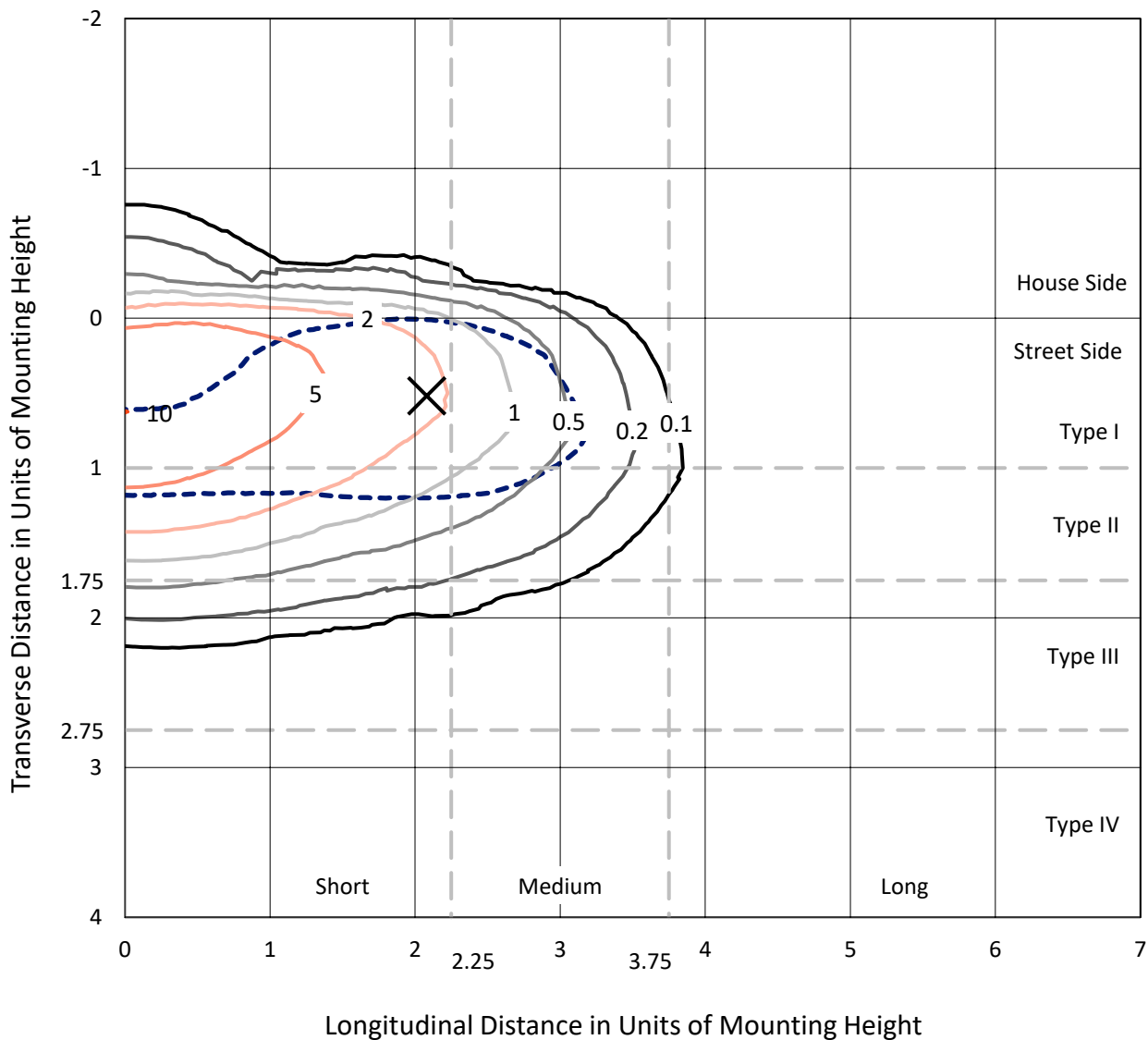
Lumens per Lamp: N/A  
Luminaire Lumens: 13383 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

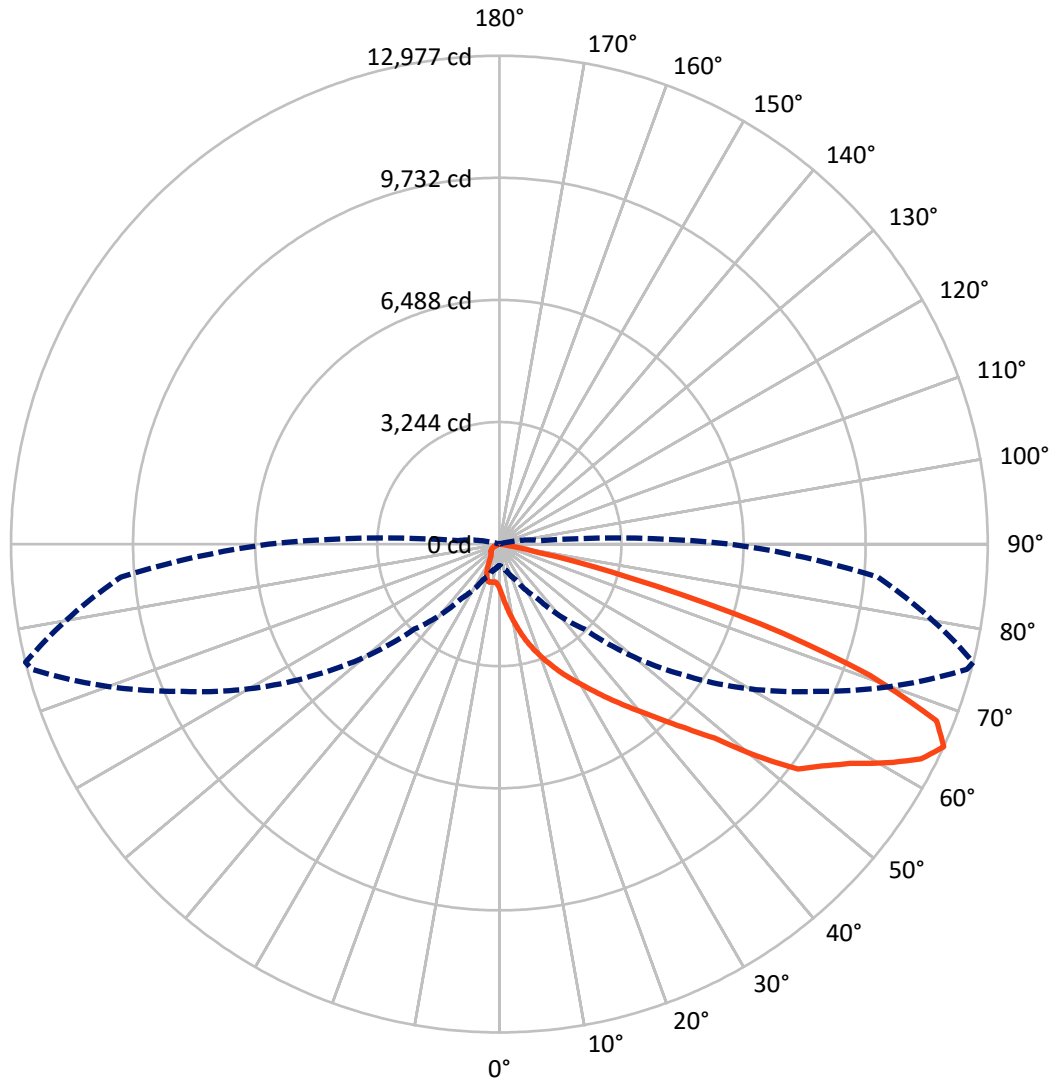
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 740.0    | 0.0    | 740.0   |
|                    | % Fixture | 5.5      | 0.0    | 5.5     |
| <b>Street Side</b> | Lumens    | 12643.0  | 0.0    | 12643.0 |
|                    | % Fixture | 94.5     | 0.0    | 94.5    |
| <b>Total</b>       | Lumens    | 13383.0  | 0.0    | 13383.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 144.1   | 1.1       |
| 10°-20°   | 547.0   | 4.1       |
| 20°-30°   | 1115.9  | 8.3       |
| 30°-40°   | 1984.6  | 14.8      |
| 40°-50°   | 2933.8  | 21.9      |
| 50°-60°   | 3358.9  | 25.1      |
| 60°-70°   | 2562.7  | 19.1      |
| 70°-80°   | 717.9   | 5.4       |
| 80°-90°   | 18.1    | 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°    | 13383.0 | 100.0     |
| 0°-180°   | 13383.0 | 100.0     |

**Coefficient of Utilization**



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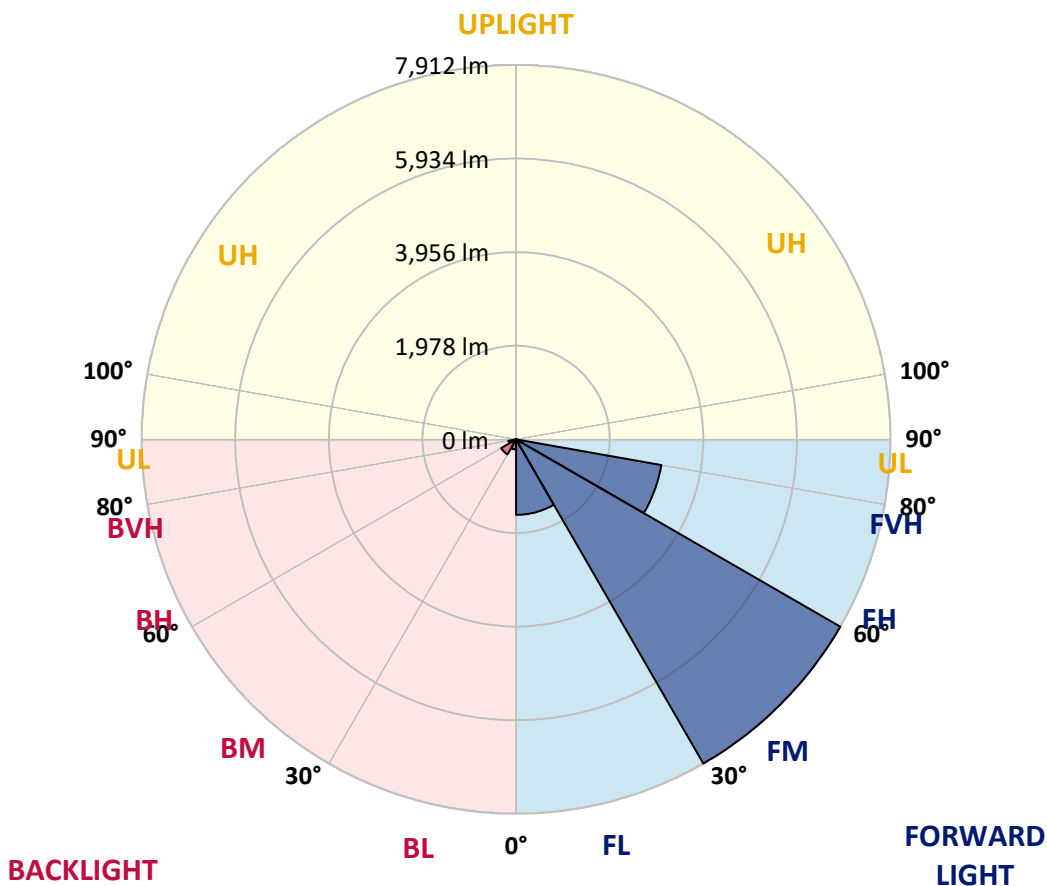
CATALOG NUMBER: GWS-SA2F-750-U-T2R-W-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1595.8 | 11.9      |                         |      |         |
| FM (30°-60°)   | 7912.2 | 59.1      |                         |      |         |
| FH (60°-80°)   | 3117.9 | 23.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 17.0   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 211.2  | 1.6       | B1/500                  |      |         |
| BM (30°-60°)   | 365.1  | 2.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 162.7  | 1.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.1    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 76°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9  | 1184.9  | 1184.9  | 1184.9  |
| 2.5°  | 1826.1 | 1853.5 | 1832.0 | 1796.4 | 1727.4 | 1660.7 | 1575.1 | 1457.3  | 1363.3  | 1351.4  | 1263.4  |
| 5°    | 2466.1 | 2463.7 | 2417.4 | 2371.0 | 2298.4 | 2184.2 | 2011.7 | 1792.8  | 1582.2  | 1564.4  | 1366.9  |
| 7.5°  | 2846.8 | 2850.4 | 2824.2 | 2788.5 | 2717.1 | 2599.4 | 2419.7 | 2155.6  | 1847.5  | 1811.8  | 1508.5  |
| 10°   | 3166.8 | 3165.6 | 3146.6 | 3129.9 | 3065.7 | 2987.2 | 2794.5 | 2504.2  | 2133.0  | 2077.1  | 1666.7  |
| 12.5° | 3407.1 | 3415.5 | 3425.0 | 3441.6 | 3414.3 | 3336.9 | 3154.9 | 2838.5  | 2422.1  | 2360.3  | 1847.5  |
| 15°   | 3597.5 | 3599.9 | 3635.5 | 3699.8 | 3722.4 | 3681.9 | 3516.6 | 3162.1  | 2707.6  | 2654.1  | 2055.7  |
| 17.5° | 3654.6 | 3659.3 | 3720.0 | 3837.8 | 3956.7 | 3979.4 | 3854.4 | 3488.0  | 2988.4  | 2931.3  | 2257.9  |
| 20°   | 3774.7 | 3785.4 | 3830.6 | 3934.1 | 4084.0 | 4205.4 | 4156.6 | 3817.6  | 3269.1  | 3194.2  | 2464.9  |
| 22.5° | 4153.0 | 4159.0 | 4143.5 | 4156.6 | 4233.9 | 4374.3 | 4404.1 | 4136.4  | 3557.0  | 3477.3  | 2688.6  |
| 25°   | 4803.8 | 4806.2 | 4697.9 | 4595.6 | 4537.3 | 4563.5 | 4628.9 | 4430.2  | 3842.5  | 3764.0  | 2896.8  |
| 27.5° | 5479.5 | 5487.8 | 5358.1 | 5184.5 | 4976.3 | 4857.3 | 4838.3 | 4699.1  | 4130.4  | 4043.6  | 3102.6  |
| 30°   | 6116.0 | 6116.0 | 5979.1 | 5767.4 | 5489.0 | 5257.0 | 5120.2 | 4970.3  | 4438.6  | 4343.4  | 3313.2  |
| 32.5° | 6688.2 | 6683.4 | 6508.5 | 6278.9 | 6004.1 | 5749.5 | 5461.6 | 5253.5  | 4781.2  | 4675.3  | 3555.8  |
| 35°   | 7160.5 | 7148.6 | 6949.9 | 6729.8 | 6436.0 | 6246.8 | 5925.6 | 5558.0  | 5152.3  | 5046.5  | 3805.7  |
| 37.5° | 7517.3 | 7504.3 | 7322.2 | 7089.1 | 6816.6 | 6694.1 | 6425.3 | 5923.2  | 5543.7  | 5447.4  | 4082.9  |
| 40°   | 7711.3 | 7685.1 | 7559.0 | 7385.3 | 7156.9 | 7049.8 | 6938.0 | 6376.5  | 6004.1  | 5884.0  | 4410.0  |
| 42.5° | 7768.4 | 7737.4 | 7654.2 | 7573.3 | 7435.3 | 7350.8 | 7471.0 | 6888.0  | 6509.7  | 6406.2  | 4783.6  |
| 45°   | 7599.4 | 7581.6 | 7574.5 | 7632.7 | 7657.7 | 7681.5 | 7977.7 | 7454.3  | 7067.7  | 6989.1  | 5253.5  |
| 47.5° | 7192.6 | 7187.8 | 7250.9 | 7493.6 | 7757.7 | 8008.7 | 8528.5 | 8152.6  | 7791.0  | 7706.5  | 5910.1  |
| 50°   | 6440.7 | 6489.5 | 6665.6 | 7091.5 | 7619.7 | 8194.3 | 9043.7 | 9121.0  | 8961.6  | 8837.9  | 6766.7  |
| 52.5° | 5265.4 | 5359.3 | 5754.3 | 6401.5 | 7160.5 | 8141.9 | 9281.6 | 9896.6  | 10059.6 | 9931.1  | 7380.5  |
| 55°   | 4131.6 | 4219.7 | 4571.8 | 5392.6 | 6405.0 | 7743.4 | 9292.3 | 10164.3 | 10520.0 | 10401.0 | 7795.7  |
| 57.5° | 3077.6 | 3158.5 | 3478.5 | 4263.7 | 5377.2 | 6959.4 | 9037.7 | 10313.0 | 11066.1 | 10989.9 | 8451.2  |
| 60°   | 2011.7 | 2091.4 | 2380.5 | 3066.9 | 4170.9 | 5817.4 | 8410.8 | 10282.1 | 11809.6 | 11802.4 | 9256.6  |
| 62.5° | 1115.9 | 1178.9 | 1388.3 | 1923.7 | 2911.1 | 4505.2 | 7425.7 | 9971.6  | 12529.3 | 12574.5 | 9920.4  |
| 65°   | 571.0  | 611.5  | 738.8  | 1057.6 | 1761.9 | 3194.2 | 6130.2 | 9260.2  | 12862.4 | 12976.6 | 10095.3 |
| 67.5° | 373.5  | 386.6  | 417.6  | 549.6  | 943.4  | 2009.3 | 4613.4 | 8119.3  | 12393.7 | 12526.9 | 9508.8  |
| 70°   | 303.4  | 314.1  | 331.9  | 366.4  | 486.6  | 1067.1 | 3030.0 | 6484.7  | 10355.8 | 10446.2 | 7572.1  |
| 72.5° | 222.5  | 236.7  | 271.2  | 293.8  | 350.9  | 585.3  | 1576.3 | 4256.5  | 7111.7  | 7271.1  | 4758.6  |
| 75°   | 164.2  | 172.5  | 201.0  | 232.0  | 286.7  | 370.0  | 603.1  | 2237.7  | 3672.4  | 3579.6  | 1998.6  |
| 77.5° | 98.7   | 104.7  | 128.5  | 148.7  | 204.6  | 230.8  | 210.6  | 826.8   | 1117.1  | 1050.5  | 483.0   |
| 80°   | 48.8   | 54.7   | 84.5   | 111.8  | 130.9  | 92.8   | 88.0   | 230.8   | 248.6   | 248.6   | 121.3   |
| 82.5° | 16.7   | 21.4   | 45.2   | 73.8   | 64.2   | 35.7   | 41.6   | 59.5    | 66.6    | 70.2    | 35.7    |
| 85°   | 0.0    | 0.0    | 10.7   | 21.4   | 9.5    | 4.8    | 10.7   | 13.1    | 16.7    | 17.8    | 11.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2     | 3.6     | 4.8     | 4.8     |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 | 1184.9 |
| 2.5°  | 1215.8 | 1159.9 | 1075.4 | 999.3  | 941.0  | 886.3  | 844.6  | 811.3  | 805.4  | 786.4  | 788.7  |
| 5°    | 1270.5 | 1169.4 | 1013.6 | 893.4  | 809.0  | 751.9  | 704.3  | 668.6  | 653.1  | 637.6  | 625.8  |
| 7.5°  | 1355.0 | 1208.7 | 989.8  | 843.5  | 744.7  | 656.7  | 582.9  | 523.4  | 494.9  | 477.0  | 465.2  |
| 10°   | 1458.5 | 1263.4 | 991.0  | 813.7  | 667.4  | 533.0  | 431.8  | 366.4  | 335.5  | 326.0  | 324.8  |
| 12.5° | 1582.2 | 1332.4 | 1000.5 | 764.9  | 555.6  | 396.2  | 320.0  | 290.3  | 280.8  | 272.4  | 272.4  |
| 15°   | 1713.1 | 1409.7 | 1000.5 | 675.7  | 423.5  | 309.3  | 277.2  | 258.2  | 246.3  | 241.5  | 239.1  |
| 17.5° | 1851.1 | 1482.3 | 976.7  | 553.2  | 324.8  | 272.4  | 246.3  | 228.4  | 218.9  | 211.8  | 209.4  |
| 20°   | 1998.6 | 1551.3 | 917.2  | 423.5  | 278.4  | 243.9  | 218.9  | 201.0  | 191.5  | 184.4  | 184.4  |
| 22.5° | 2148.5 | 1615.5 | 820.9  | 326.0  | 246.3  | 216.5  | 192.7  | 176.1  | 166.5  | 159.4  | 159.4  |
| 25°   | 2287.7 | 1658.4 | 697.1  | 268.9  | 222.5  | 192.7  | 171.3  | 154.7  | 143.9  | 139.2  | 136.8  |
| 27.5° | 2417.4 | 1685.7 | 560.3  | 236.7  | 199.9  | 172.5  | 149.9  | 134.4  | 126.1  | 122.5  | 120.2  |
| 30°   | 2551.8 | 1692.9 | 428.3  | 215.3  | 180.8  | 152.3  | 130.9  | 119.0  | 111.8  | 107.1  | 107.1  |
| 32.5° | 2682.6 | 1684.5 | 327.2  | 197.5  | 164.2  | 134.4  | 116.6  | 105.9  | 99.9   | 96.4   | 95.2   |
| 35°   | 2815.9 | 1646.5 | 265.3  | 182.0  | 147.5  | 117.8  | 103.5  | 95.2   | 91.6   | 86.8   | 86.8   |
| 37.5° | 2961.0 | 1595.3 | 230.8  | 166.5  | 130.9  | 105.9  | 92.8   | 86.8   | 82.1   | 78.5   | 77.3   |
| 40°   | 3141.8 | 1535.8 | 211.8  | 153.5  | 115.4  | 95.2   | 83.3   | 77.3   | 73.8   | 70.2   | 69.0   |
| 42.5° | 3356.0 | 1477.5 | 202.2  | 139.2  | 103.5  | 84.5   | 74.9   | 67.8   | 64.2   | 59.5   | 58.3   |
| 45°   | 3659.3 | 1464.4 | 191.5  | 123.7  | 92.8   | 76.1   | 65.4   | 58.3   | 53.5   | 50.0   | 48.8   |
| 47.5° | 4147.1 | 1501.3 | 173.7  | 107.1  | 82.1   | 66.6   | 55.9   | 50.0   | 44.0   | 40.4   | 38.1   |
| 50°   | 4631.3 | 1491.8 | 155.8  | 92.8   | 72.6   | 57.1   | 47.6   | 41.6   | 35.7   | 32.1   | 30.9   |
| 52.5° | 4895.4 | 1446.6 | 139.2  | 82.1   | 63.1   | 48.8   | 40.4   | 33.3   | 29.7   | 26.2   | 25.0   |
| 55°   | 5134.5 | 1428.8 | 122.5  | 71.4   | 53.5   | 42.8   | 33.3   | 27.4   | 25.0   | 21.4   | 20.2   |
| 57.5° | 5603.2 | 1470.4 | 108.3  | 61.9   | 46.4   | 36.9   | 28.6   | 22.6   | 20.2   | 16.7   | 15.5   |
| 60°   | 6093.3 | 1475.2 | 92.8   | 53.5   | 40.4   | 30.9   | 22.6   | 17.8   | 15.5   | 11.9   | 10.7   |
| 62.5° | 6349.1 | 1355.0 | 76.1   | 45.2   | 33.3   | 26.2   | 19.0   | 14.3   | 11.9   | 7.1    | 7.1    |
| 65°   | 6135.0 | 1095.7 | 64.2   | 36.9   | 26.2   | 20.2   | 14.3   | 10.7   | 7.1    | 3.6    | 1.2    |
| 67.5° | 5429.5 | 779.2  | 53.5   | 29.7   | 19.0   | 14.3   | 10.7   | 7.1    | 1.2    | 0.0    | 0.0    |
| 70°   | 3975.8 | 444.9  | 41.6   | 21.4   | 14.3   | 9.5    | 7.1    | 3.6    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2443.5 | 237.9  | 30.9   | 14.3   | 10.7   | 7.1    | 5.9    | 2.4    | 0.0    | 0.0    | 0.0    |
| 75°   | 926.7  | 114.2  | 19.0   | 9.5    | 8.3    | 5.9    | 3.6    | 1.2    | 0.0    | 0.0    | 0.0    |
| 77.5° | 251.0  | 55.9   | 10.7   | 7.1    | 5.9    | 3.6    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 65.4   | 26.2   | 7.1    | 4.8    | 3.6    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 22.6   | 11.9   | 3.6    | 3.6    | 2.4    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 9.5    | 4.8    | 2.4    | 2.4    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.6    | 1.2    | 1.2    | 1.2    | 1.2    | 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)