

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: P634322

Luminaire Tested: GWS-SA3B-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

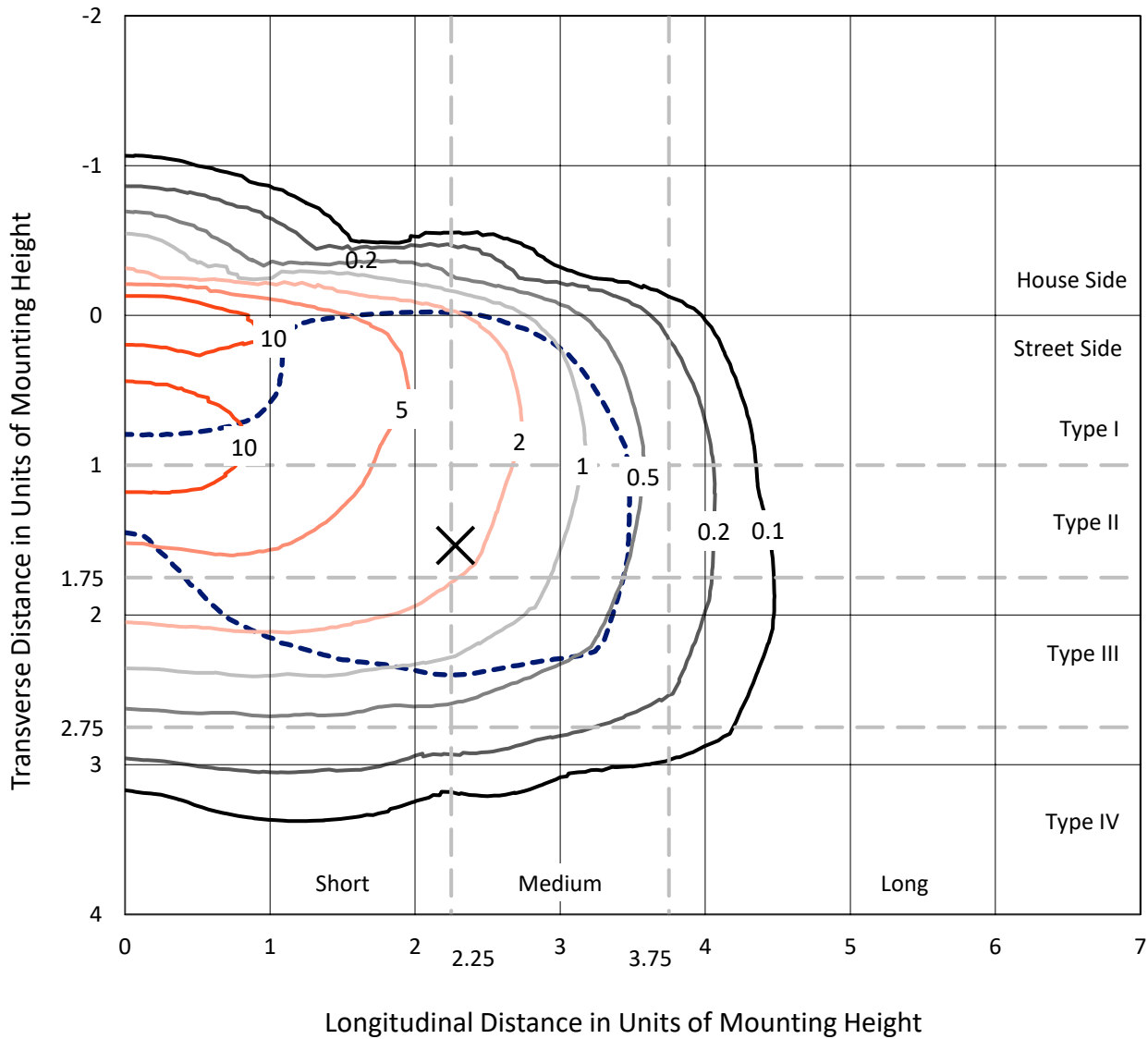
Lumens per Lamp: N/A  
Luminaire Lumens: 8142.5 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

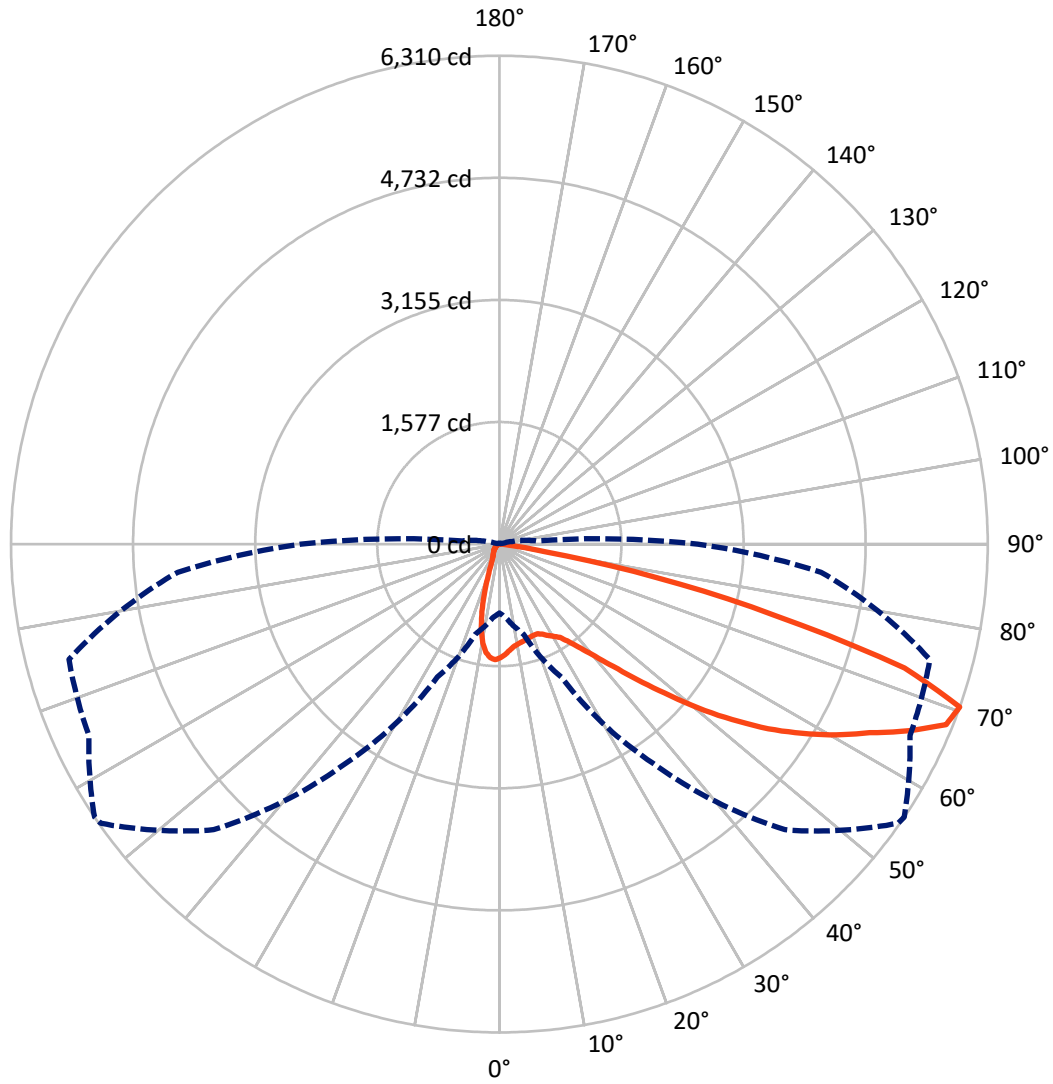
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 731.4    | 0.0    | 731.4  |
|                    | % Fixture | 9.0      | 0.0    | 9.0    |
| <b>Street Side</b> | Lumens    | 7411.1   | 0.0    | 7411.1 |
|                    | % Fixture | 91.0     | 0.0    | 91.0   |
| <b>Total</b>       | Lumens    | 8142.5   | 0.0    | 8142.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.1  | 1.5       |
| 10°-20°   | 283.5  | 3.5       |
| 20°-30°   | 449.1  | 5.5       |
| 30°-40°   | 774.4  | 9.5       |
| 40°-50°   | 1307.8 | 16.1      |
| 50°-60°   | 1921.5 | 23.6      |
| 60°-70°   | 2278.1 | 28.0      |
| 70°-80°   | 971.5  | 11.9      |
| 80°-90°   | 30.5   | 0.4       |
| 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°    | 8142.5 | 100.0     |
| 0°-180°   | 8142.5 | 100.0     |

**Coefficient of Utilization**



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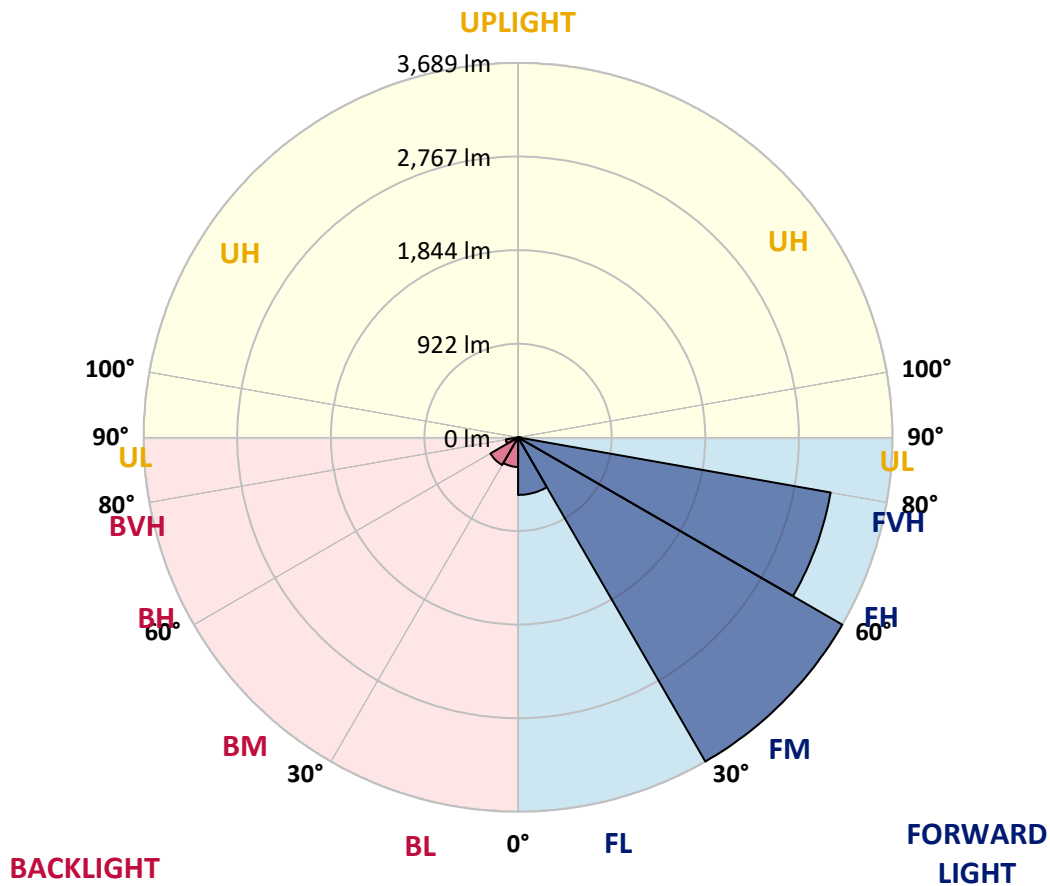
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 567.4  | 7.0       |                         |      |         |
| FM (30°-60°)   | 3688.8 | 45.3      |                         |      |         |
| FH (60°-80°)   | 3127.6 | 38.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 27.4   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 291.3  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 315.0  | 3.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 122.0  | 1.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.1    | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 |
| 2.5°  | 1366.8 | 1364.5 | 1366.0 | 1377.2 | 1398.1 | 1407.8 | 1424.2 | 1427.2 | 1440.6 | 1457.7 | 1464.4 |
| 5°    | 1278.0 | 1270.6 | 1274.3 | 1290.0 | 1313.8 | 1340.7 | 1371.2 | 1379.4 | 1413.0 | 1451.0 | 1479.4 |
| 7.5°  | 1196.8 | 1188.6 | 1197.5 | 1222.1 | 1255.7 | 1284.7 | 1330.2 | 1335.4 | 1389.1 | 1456.2 | 1507.7 |
| 10°   | 1069.3 | 1071.5 | 1089.4 | 1132.6 | 1184.1 | 1244.5 | 1305.6 | 1313.1 | 1379.4 | 1473.4 | 1553.2 |
| 12.5° | 971.6  | 966.4  | 985.7  | 1035.0 | 1107.3 | 1195.3 | 1287.0 | 1296.7 | 1380.2 | 1499.5 | 1611.3 |
| 15°   | 926.1  | 924.6  | 932.8  | 968.6  | 1038.7 | 1142.3 | 1269.8 | 1282.5 | 1389.9 | 1523.4 | 1666.5 |
| 17.5° | 927.6  | 925.3  | 924.6  | 945.5  | 997.7  | 1102.8 | 1251.2 | 1267.6 | 1398.1 | 1549.4 | 1724.7 |
| 20°   | 992.5  | 982.0  | 963.4  | 953.7  | 985.0  | 1077.5 | 1238.5 | 1257.2 | 1410.0 | 1577.0 | 1786.6 |
| 22.5° | 1128.2 | 1131.9 | 1081.9 | 1029.7 | 1014.8 | 1080.4 | 1237.0 | 1258.6 | 1436.1 | 1620.3 | 1862.6 |
| 25°   | 1399.6 | 1393.6 | 1301.2 | 1184.1 | 1102.8 | 1114.7 | 1263.1 | 1289.2 | 1487.6 | 1682.2 | 1934.2 |
| 27.5° | 1739.6 | 1744.8 | 1618.0 | 1431.6 | 1261.6 | 1185.6 | 1310.8 | 1336.9 | 1547.2 | 1720.9 | 1981.9 |
| 30°   | 2110.2 | 2105.0 | 1969.2 | 1762.7 | 1486.8 | 1303.4 | 1358.6 | 1381.7 | 1577.0 | 1741.8 | 2031.1 |
| 32.5° | 2460.6 | 2448.7 | 2314.5 | 2098.2 | 1773.9 | 1489.1 | 1424.2 | 1437.6 | 1616.6 | 1787.3 | 2097.5 |
| 35°   | 2759.6 | 2758.9 | 2641.8 | 2411.4 | 2069.2 | 1721.7 | 1536.8 | 1548.0 | 1690.4 | 1859.6 | 2195.2 |
| 37.5° | 3068.3 | 3057.9 | 2926.7 | 2716.4 | 2372.6 | 1976.7 | 1709.0 | 1704.5 | 1806.7 | 1966.3 | 2315.2 |
| 40°   | 3321.8 | 3315.1 | 3214.5 | 3012.4 | 2688.0 | 2258.6 | 1917.8 | 1904.4 | 1944.6 | 2113.9 | 2482.3 |
| 42.5° | 3509.8 | 3510.5 | 3479.2 | 3356.1 | 3022.1 | 2584.4 | 2180.3 | 2159.4 | 2158.6 | 2336.9 | 2703.0 |
| 45°   | 3652.2 | 3661.9 | 3708.8 | 3690.2 | 3416.5 | 2963.9 | 2516.6 | 2494.9 | 2458.4 | 2626.2 | 2955.7 |
| 47.5° | 3718.5 | 3731.2 | 3872.9 | 3947.4 | 3761.8 | 3340.5 | 2917.0 | 2871.5 | 2799.9 | 3010.9 | 3238.3 |
| 50°   | 3711.8 | 3734.2 | 3931.8 | 4158.5 | 4074.9 | 3722.3 | 3353.2 | 3331.5 | 3214.5 | 3418.0 | 3518.0 |
| 52.5° | 3559.7 | 3607.4 | 3935.5 | 4286.7 | 4315.8 | 4074.2 | 3804.3 | 3764.0 | 3707.3 | 3843.1 | 3780.4 |
| 55°   | 3146.6 | 3204.8 | 3778.2 | 4327.7 | 4503.7 | 4381.4 | 4245.7 | 4212.9 | 4118.9 | 4244.2 | 4009.3 |
| 57.5° | 2922.2 | 2972.1 | 3447.1 | 4307.6 | 4663.3 | 4665.5 | 4638.7 | 4611.8 | 4534.3 | 4640.9 | 4277.8 |
| 60°   | 2787.2 | 2837.2 | 3270.4 | 4233.8 | 4807.9 | 4965.2 | 5007.8 | 5004.8 | 4892.9 | 5092.0 | 4592.4 |
| 62.5° | 2589.6 | 2658.2 | 3086.2 | 4042.1 | 4910.8 | 5260.5 | 5388.8 | 5368.6 | 5244.1 | 5561.8 | 4904.1 |
| 65°   | 2190.7 | 2250.4 | 2708.9 | 3726.0 | 4850.4 | 5505.1 | 5801.9 | 5812.3 | 5668.4 | 6003.9 | 5150.2 |
| 67.5° | 1536.0 | 1580.0 | 2035.6 | 3062.4 | 4440.3 | 5585.6 | 6224.6 | 6223.9 | 5978.6 | 6230.6 | 5041.3 |
| 70°   | 890.3  | 950.7  | 1202.7 | 1893.2 | 3454.6 | 5219.5 | 6288.0 | 6309.6 | 5852.6 | 5757.1 | 4171.9 |
| 72.5° | 344.5  | 394.4  | 681.5  | 1005.9 | 1801.5 | 3998.1 | 5408.9 | 5472.3 | 4898.1 | 4441.1 | 2903.5 |
| 75°   | 102.9  | 114.8  | 320.6  | 535.4  | 723.3  | 1931.2 | 3661.9 | 3679.8 | 3359.9 | 2770.1 | 1488.3 |
| 77.5° | 76.8   | 85.0   | 140.2  | 270.7  | 253.5  | 585.3  | 1894.7 | 2069.2 | 1783.6 | 989.5  | 410.1  |
| 80°   | 52.2   | 61.9   | 99.9   | 132.0  | 94.0   | 155.8  | 532.4  | 584.6  | 544.3  | 222.2  | 102.9  |
| 82.5° | 23.1   | 29.8   | 70.8   | 66.4   | 34.3   | 44.7   | 164.0  | 174.5  | 112.6  | 67.1   | 35.8   |
| 85°   | 2.2    | 3.0    | 26.8   | 29.1   | 12.7   | 10.4   | 34.3   | 34.3   | 24.6   | 23.1   | 14.9   |
| 87.5° | 0.0    | 0.0    | 0.7    | 1.5    | 1.5    | 2.2    | 3.0    | 3.7    | 4.5    | 6.0    | 7.5    |
| 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°    | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 |
| 2.5°  | 1481.6 | 1472.6 | 1483.8 | 1492.8 | 1495.0 | 1478.6 | 1468.9 | 1454.8 | 1451.8 | 1452.5 | 1448.8 |
| 5°    | 1501.7 | 1497.3 | 1505.5 | 1495.8 | 1470.4 | 1422.7 | 1381.7 | 1336.2 | 1311.6 | 1297.4 | 1295.9 |
| 7.5°  | 1539.0 | 1536.8 | 1527.8 | 1483.8 | 1404.8 | 1298.9 | 1196.8 | 1096.8 | 1035.0 | 1012.6 | 1008.9 |
| 10°   | 1594.2 | 1589.7 | 1553.2 | 1448.8 | 1280.3 | 1076.7 | 905.2  | 762.0  | 674.8  | 649.5  | 618.1  |
| 12.5° | 1657.6 | 1648.6 | 1568.8 | 1373.5 | 1092.4 | 810.5  | 596.5  | 436.2  | 360.9  | 338.5  | 338.5  |
| 15°   | 1718.7 | 1699.3 | 1559.9 | 1249.0 | 861.2  | 527.2  | 333.3  | 252.0  | 228.9  | 222.9  | 222.9  |
| 17.5° | 1781.3 | 1744.1 | 1524.8 | 1078.9 | 595.0  | 311.7  | 222.2  | 206.5  | 203.6  | 204.3  | 205.1  |
| 20°   | 1840.3 | 1782.1 | 1463.0 | 874.6  | 379.5  | 217.7  | 199.1  | 195.4  | 193.9  | 195.4  | 194.6  |
| 22.5° | 1904.4 | 1817.1 | 1369.0 | 651.7  | 246.8  | 196.1  | 189.4  | 186.4  | 184.9  | 187.2  | 187.2  |
| 25°   | 1967.8 | 1842.5 | 1244.5 | 438.4  | 196.1  | 182.7  | 179.0  | 176.0  | 174.5  | 175.2  | 175.2  |
| 27.5° | 2000.6 | 1832.8 | 1081.2 | 279.6  | 176.0  | 169.3  | 165.5  | 161.8  | 159.6  | 158.8  | 159.6  |
| 30°   | 2022.9 | 1803.0 | 881.4  | 199.1  | 159.6  | 151.4  | 147.6  | 144.7  | 138.7  | 135.0  | 136.5  |
| 32.5° | 2058.0 | 1773.1 | 664.4  | 167.0  | 146.1  | 133.5  | 127.5  | 120.0  | 111.8  | 108.1  | 108.1  |
| 35°   | 2099.7 | 1732.1 | 466.0  | 150.6  | 132.0  | 118.6  | 107.4  | 94.7   | 85.0   | 82.0   | 82.0   |
| 37.5° | 2154.9 | 1693.4 | 310.2  | 139.4  | 120.0  | 105.9  | 90.2   | 75.3   | 64.9   | 63.4   | 62.6   |
| 40°   | 2237.7 | 1660.6 | 218.5  | 131.2  | 109.6  | 92.5   | 73.8   | 58.2   | 50.7   | 48.5   | 48.5   |
| 42.5° | 2345.1 | 1627.0 | 173.0  | 123.0  | 100.7  | 79.8   | 58.9   | 46.2   | 40.3   | 38.8   | 38.0   |
| 45°   | 2477.8 | 1587.5 | 150.6  | 115.6  | 91.7   | 66.4   | 47.0   | 38.8   | 34.3   | 32.8   | 32.8   |
| 47.5° | 2621.7 | 1533.8 | 140.2  | 105.9  | 81.3   | 53.7   | 39.5   | 33.6   | 31.3   | 30.6   | 29.8   |
| 50°   | 2763.4 | 1461.5 | 131.2  | 96.9   | 69.3   | 44.0   | 34.3   | 30.6   | 29.1   | 28.3   | 28.3   |
| 52.5° | 2887.1 | 1377.2 | 120.0  | 86.5   | 56.7   | 38.0   | 30.6   | 28.3   | 26.8   | 25.4   | 24.6   |
| 55°   | 2993.0 | 1285.5 | 105.9  | 74.6   | 46.2   | 33.6   | 28.3   | 26.1   | 24.6   | 23.1   | 22.4   |
| 57.5° | 3129.5 | 1233.3 | 85.0   | 60.4   | 38.0   | 29.8   | 26.1   | 23.9   | 22.4   | 20.1   | 20.1   |
| 60°   | 3280.8 | 1195.3 | 63.4   | 47.7   | 32.8   | 27.6   | 23.9   | 21.6   | 20.1   | 17.9   | 17.9   |
| 62.5° | 3402.4 | 1138.6 | 50.0   | 38.8   | 28.3   | 24.6   | 21.6   | 19.4   | 17.9   | 15.7   | 15.7   |
| 65°   | 3448.6 | 1021.5 | 41.0   | 30.6   | 23.1   | 21.6   | 19.4   | 17.9   | 15.7   | 13.4   | 13.4   |
| 67.5° | 3239.8 | 787.4  | 34.3   | 24.6   | 19.4   | 18.6   | 17.1   | 16.4   | 13.4   | 11.9   | 11.2   |
| 70°   | 2565.8 | 480.2  | 28.3   | 20.1   | 16.4   | 15.7   | 15.7   | 14.2   | 11.9   | 11.2   | 10.4   |
| 72.5° | 1758.2 | 247.6  | 23.1   | 16.4   | 14.2   | 14.2   | 13.4   | 12.7   | 11.2   | 10.4   | 10.4   |
| 75°   | 913.4  | 82.8   | 17.9   | 12.7   | 11.2   | 11.9   | 11.9   | 11.2   | 10.4   | 10.4   | 9.7    |
| 77.5° | 261.7  | 37.3   | 13.4   | 9.7    | 8.9    | 8.9    | 9.7    | 9.7    | 9.7    | 8.9    | 8.9    |
| 80°   | 67.9   | 21.6   | 9.7    | 7.5    | 7.5    | 7.5    | 7.5    | 8.2    | 8.9    | 8.2    | 8.2    |
| 82.5° | 27.6   | 11.9   | 6.7    | 6.0    | 6.0    | 6.0    | 6.0    | 6.7    | 7.5    | 7.5    | 7.5    |
| 85°   | 17.1   | 6.0    | 5.2    | 5.2    | 5.2    | 4.5    | 4.5    | 5.2    | 5.2    | 6.0    | 6.0    |
| 87.5° | 10.4   | 4.5    | 4.5    | 4.5    | 4.5    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 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)