

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: P631839

Luminaire Tested: GWS-SA2B-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631839  
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-SA2B-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

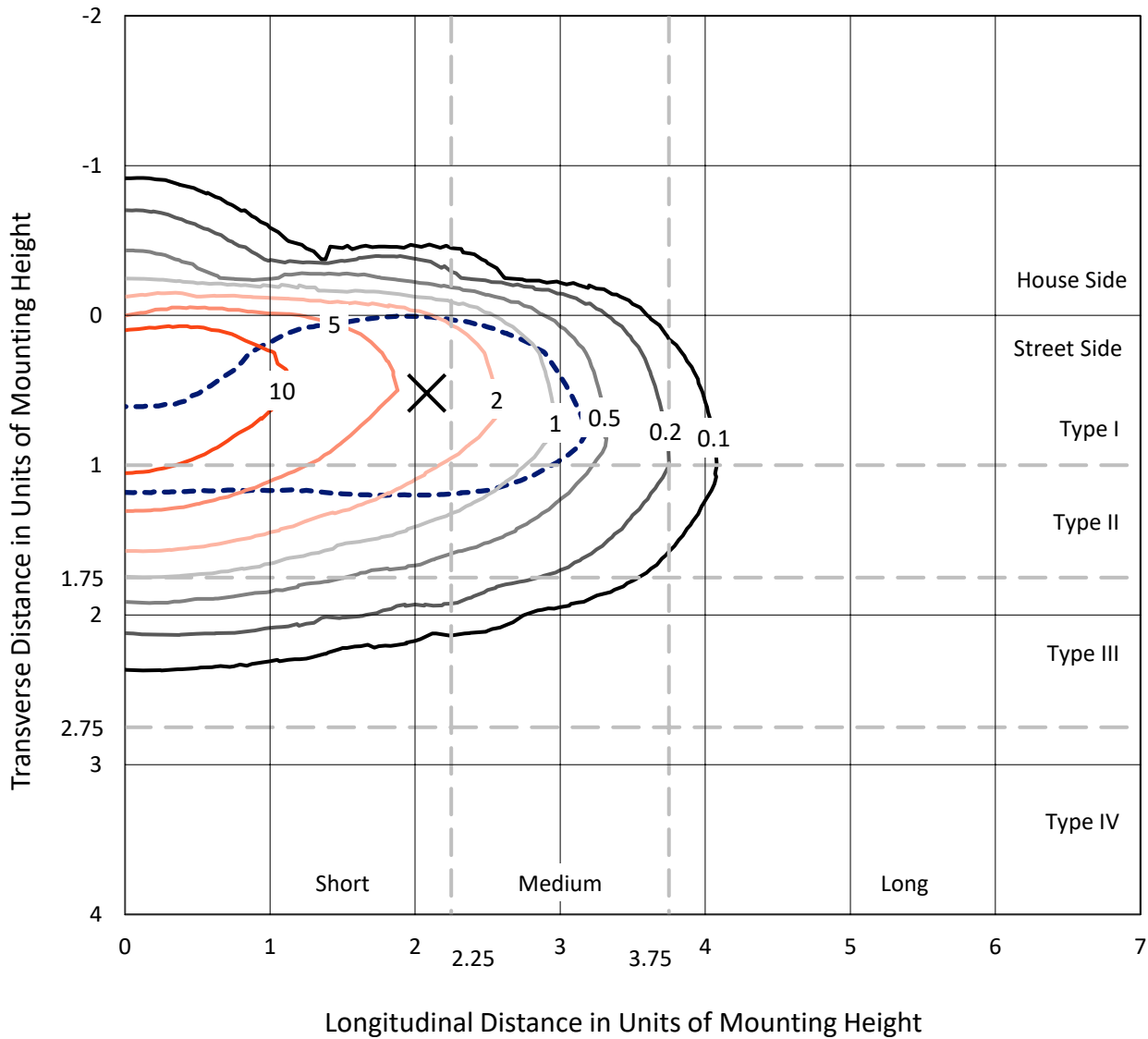
Lumens per Lamp: N/A  
Luminaire Lumens: 5565.7 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

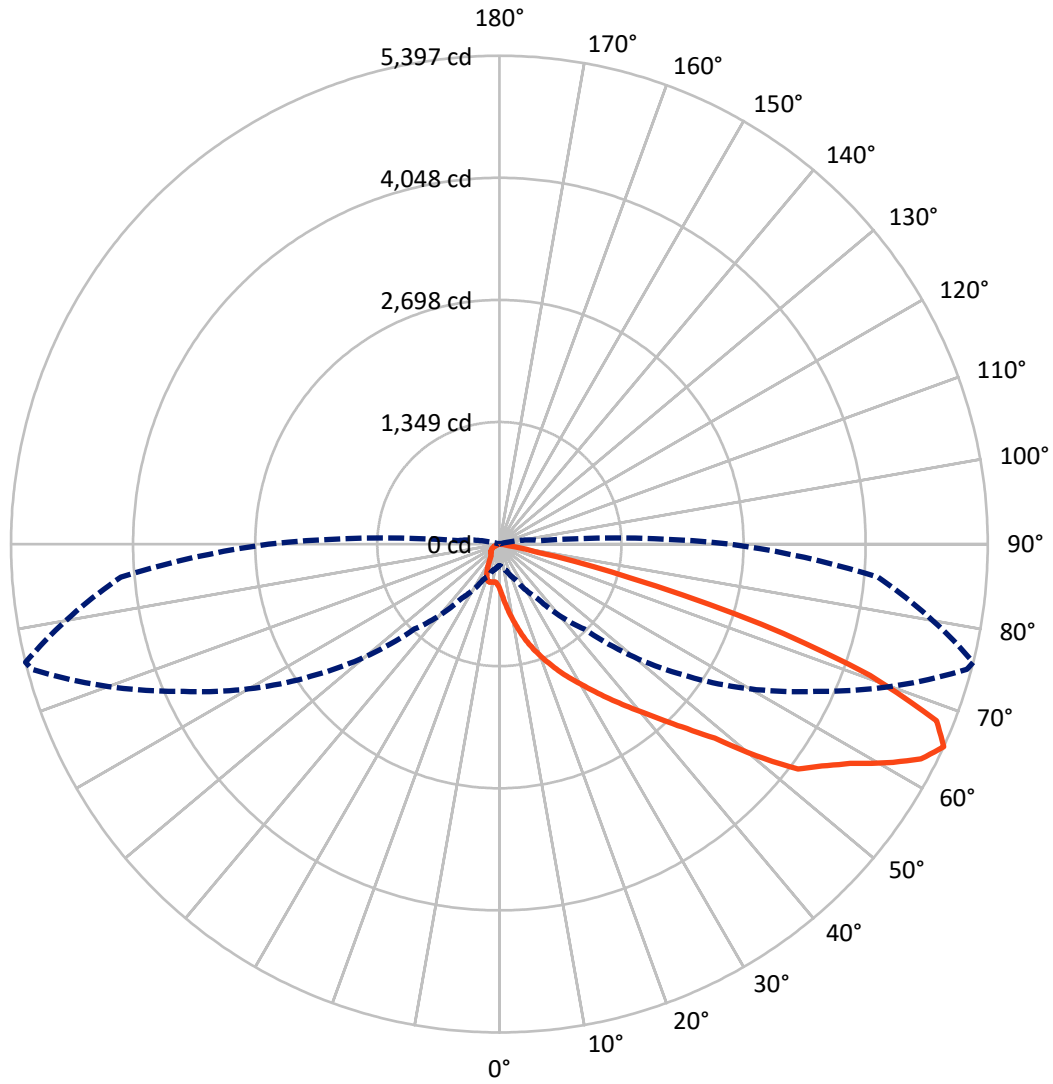
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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    | 307.8    | 0.0    | 307.8  |
|                    | % Fixture | 5.5      | 0.0    | 5.5    |
| <b>Street Side</b> | Lumens    | 5258.0   | 0.0    | 5258.0 |
|                    | % Fixture | 94.5     | 0.0    | 94.5   |
| <b>Total</b>       | Lumens    | 5565.7   | 0.0    | 5565.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.9   | 1.1       |
| 10°-20°   | 227.5  | 4.1       |
| 20°-30°   | 464.1  | 8.3       |
| 30°-40°   | 825.4  | 14.8      |
| 40°-50°   | 1220.1 | 21.9      |
| 50°-60°   | 1396.9 | 25.1      |
| 60°-70°   | 1065.8 | 19.1      |
| 70°-80°   | 298.6  | 5.4       |
| 80°-90°   | 7.5    | 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°    | 5565.7 | 100.0     |
| 0°-180°   | 5565.7 | 100.0     |

**Coefficient of Utilization**



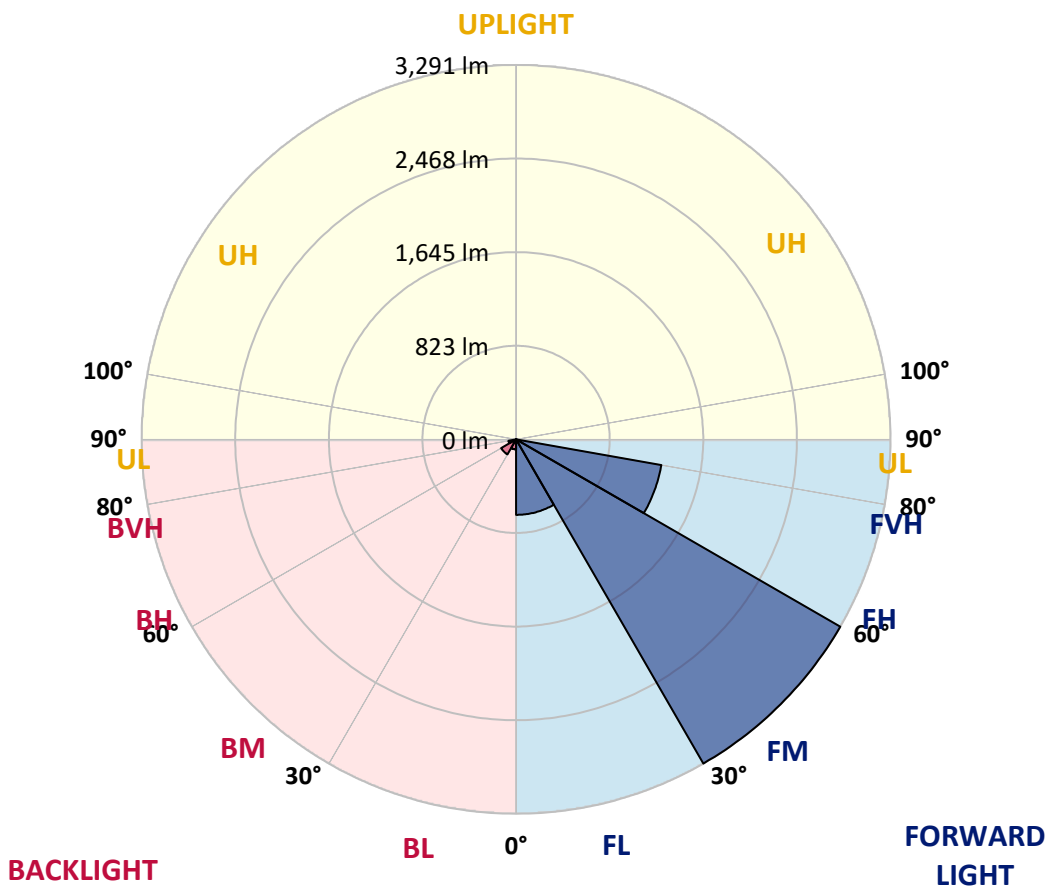
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 663.7  | 11.9      |                         |      |         |
| FM (30°-60°)   | 3290.5 | 59.1      |                         |      |         |
| FH (60°-80°)   | 1296.7 | 23.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 7.1    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 87.8   | 1.6       | B0/110                  |      |         |
| BM (30°-60°)   | 151.8  | 2.7       | B0/220                  |      |         |
| BH (60°-80°)   | 67.7   | 1.2       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 492.8  | 492.8  | 492.8  | 492.8  | 492.8  | 492.8  | 492.8  | 492.8  | 492.8  | 492.8  | 492.8  |
| 2.5°  | 759.4  | 770.8  | 761.9  | 747.1  | 718.4  | 690.7  | 655.0  | 606.1  | 567.0  | 562.0  | 525.4  |
| 5°    | 1025.6 | 1024.6 | 1005.3 | 986.0  | 955.9  | 908.4  | 836.6  | 745.6  | 658.0  | 650.6  | 568.5  |
| 7.5°  | 1183.9 | 1185.4 | 1174.5 | 1159.7 | 1130.0 | 1081.0 | 1006.3 | 896.5  | 768.3  | 753.5  | 627.3  |
| 10°   | 1317.0 | 1316.5 | 1308.6 | 1301.7 | 1275.0 | 1242.3 | 1162.2 | 1041.4 | 887.1  | 863.8  | 693.1  |
| 12.5° | 1417.0 | 1420.4 | 1424.4 | 1431.3 | 1419.9 | 1387.8 | 1312.1 | 1180.5 | 1007.3 | 981.6  | 768.3  |
| 15°   | 1496.1 | 1497.1 | 1511.9 | 1538.7 | 1548.1 | 1531.2 | 1462.5 | 1315.0 | 1126.0 | 1103.8 | 854.9  |
| 17.5° | 1519.9 | 1521.8 | 1547.1 | 1596.1 | 1645.5 | 1654.9 | 1603.0 | 1450.6 | 1242.8 | 1219.1 | 939.0  |
| 20°   | 1569.8 | 1574.3 | 1593.1 | 1636.1 | 1698.5 | 1748.9 | 1728.6 | 1587.6 | 1359.6 | 1328.4 | 1025.1 |
| 22.5° | 1727.2 | 1729.6 | 1723.2 | 1728.6 | 1760.8 | 1819.2 | 1831.6 | 1720.2 | 1479.3 | 1446.1 | 1118.1 |
| 25°   | 1997.8 | 1998.8 | 1953.8 | 1911.2 | 1887.0 | 1897.8 | 1925.1 | 1842.4 | 1598.0 | 1565.4 | 1204.7 |
| 27.5° | 2278.8 | 2282.3 | 2228.3 | 2156.1 | 2069.5 | 2020.0 | 2012.1 | 1954.2 | 1717.8 | 1681.6 | 1290.3 |
| 30°   | 2543.5 | 2543.5 | 2486.6 | 2398.5 | 2282.8 | 2186.3 | 2129.4 | 2067.1 | 1845.9 | 1806.3 | 1377.9 |
| 32.5° | 2781.5 | 2779.5 | 2706.8 | 2611.3 | 2497.0 | 2391.1 | 2271.4 | 2184.8 | 1988.4 | 1944.4 | 1478.8 |
| 35°   | 2977.9 | 2972.9 | 2890.3 | 2798.8 | 2676.6 | 2597.9 | 2464.3 | 2311.5 | 2142.7 | 2098.7 | 1582.7 |
| 37.5° | 3126.3 | 3120.9 | 3045.2 | 2948.2 | 2834.9 | 2783.9 | 2672.1 | 2463.3 | 2305.5 | 2265.4 | 1698.0 |
| 40°   | 3206.9 | 3196.1 | 3143.6 | 3071.4 | 2976.4 | 2931.9 | 2885.4 | 2651.8 | 2497.0 | 2447.0 | 1834.0 |
| 42.5° | 3230.7 | 3217.8 | 3183.2 | 3149.6 | 3092.2 | 3057.0 | 3107.0 | 2864.6 | 2707.3 | 2664.2 | 1989.4 |
| 45°   | 3160.4 | 3153.0 | 3150.1 | 3174.3 | 3184.7 | 3194.6 | 3317.8 | 3100.1 | 2939.3 | 2906.6 | 2184.8 |
| 47.5° | 2991.2 | 2989.3 | 3015.5 | 3116.4 | 3226.2 | 3330.6 | 3546.8 | 3390.5 | 3240.1 | 3205.0 | 2457.9 |
| 50°   | 2678.6 | 2698.8 | 2772.1 | 2949.2 | 3168.9 | 3407.8 | 3761.1 | 3793.2 | 3726.9 | 3675.5 | 2814.1 |
| 52.5° | 2189.7 | 2228.8 | 2393.1 | 2662.2 | 2977.9 | 3386.0 | 3860.0 | 4115.8 | 4183.6 | 4130.1 | 3069.4 |
| 55°   | 1718.3 | 1754.9 | 1901.3 | 2242.7 | 2663.7 | 3220.3 | 3864.5 | 4227.1 | 4375.0 | 4325.6 | 3242.1 |
| 57.5° | 1279.9 | 1313.6 | 1446.6 | 1773.2 | 2236.3 | 2894.3 | 3758.6 | 4289.0 | 4602.1 | 4570.5 | 3514.7 |
| 60°   | 836.6  | 869.8  | 990.0  | 1275.5 | 1734.6 | 2419.3 | 3497.9 | 4276.1 | 4911.3 | 4908.4 | 3849.6 |
| 62.5° | 464.1  | 490.3  | 577.4  | 800.0  | 1210.6 | 1873.6 | 3088.2 | 4147.0 | 5210.7 | 5229.5 | 4125.7 |
| 65°   | 237.5  | 254.3  | 307.2  | 439.8  | 732.7  | 1328.4 | 2549.4 | 3851.1 | 5349.2 | 5396.7 | 4198.4 |
| 67.5° | 155.4  | 160.8  | 173.7  | 228.6  | 392.3  | 835.6  | 1918.6 | 3376.6 | 5154.3 | 5209.7 | 3954.5 |
| 70°   | 126.2  | 130.6  | 138.0  | 152.4  | 202.4  | 443.8  | 1260.1 | 2696.9 | 4306.8 | 4344.4 | 3149.1 |
| 72.5° | 92.5   | 98.5   | 112.8  | 122.2  | 146.0  | 243.4  | 655.5  | 1770.2 | 2957.6 | 3023.9 | 1979.0 |
| 75°   | 68.3   | 71.7   | 83.6   | 96.5   | 119.2  | 153.9  | 250.8  | 930.6  | 1527.3 | 1488.7 | 831.2  |
| 77.5° | 41.1   | 43.5   | 53.4   | 61.8   | 85.1   | 96.0   | 87.6   | 343.8  | 464.6  | 436.9  | 200.9  |
| 80°   | 20.3   | 22.8   | 35.1   | 46.5   | 54.4   | 38.6   | 36.6   | 96.0   | 103.4  | 103.4  | 50.5   |
| 82.5° | 6.9    | 8.9    | 18.8   | 30.7   | 26.7   | 14.8   | 17.3   | 24.7   | 27.7   | 29.2   | 14.8   |
| 85°   | 0.0    | 0.0    | 4.5    | 8.9    | 4.0    | 2.0    | 4.5    | 5.4    | 6.9    | 7.4    | 4.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 1.5    | 2.0    | 2.0    |
| 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°    | 492.8  | 492.8 | 492.8 | 492.8 | 492.8 | 492.8 | 492.8 | 492.8 | 492.8 | 492.8 | 492.8 |
| 2.5°  | 505.6  | 482.4 | 447.3 | 415.6 | 391.3 | 368.6 | 351.3 | 337.4 | 334.9 | 327.0 | 328.0 |
| 5°    | 528.4  | 486.3 | 421.5 | 371.6 | 336.4 | 312.7 | 292.9 | 278.0 | 271.6 | 265.2 | 260.2 |
| 7.5°  | 563.5  | 502.7 | 411.6 | 350.8 | 309.7 | 273.1 | 242.4 | 217.7 | 205.8 | 198.4 | 193.4 |
| 10°   | 606.6  | 525.4 | 412.1 | 338.4 | 277.6 | 221.6 | 179.6 | 152.4 | 139.5 | 135.6 | 135.1 |
| 12.5° | 658.0  | 554.1 | 416.1 | 318.1 | 231.0 | 164.8 | 133.1 | 120.7 | 116.8 | 113.3 | 113.3 |
| 15°   | 712.4  | 586.3 | 416.1 | 281.0 | 176.1 | 128.6 | 115.3 | 107.4 | 102.4 | 100.4 | 99.4  |
| 17.5° | 769.8  | 616.5 | 406.2 | 230.1 | 135.1 | 113.3 | 102.4 | 95.0  | 91.0  | 88.1  | 87.1  |
| 20°   | 831.2  | 645.1 | 381.4 | 176.1 | 115.8 | 101.4 | 91.0  | 83.6  | 79.7  | 76.7  | 76.7  |
| 22.5° | 893.5  | 671.9 | 341.4 | 135.6 | 102.4 | 90.0  | 80.1  | 73.2  | 69.3  | 66.3  | 66.3  |
| 25°   | 951.4  | 689.7 | 289.9 | 111.8 | 92.5  | 80.1  | 71.2  | 64.3  | 59.9  | 57.9  | 56.9  |
| 27.5° | 1005.3 | 701.1 | 233.0 | 98.5  | 83.1  | 71.7  | 62.3  | 55.9  | 52.4  | 51.0  | 50.0  |
| 30°   | 1061.2 | 704.0 | 178.1 | 89.5  | 75.2  | 63.3  | 54.4  | 49.5  | 46.5  | 44.5  | 44.5  |
| 32.5° | 1115.7 | 700.6 | 136.1 | 82.1  | 68.3  | 55.9  | 48.5  | 44.0  | 41.6  | 40.1  | 39.6  |
| 35°   | 1171.1 | 684.7 | 110.3 | 75.7  | 61.3  | 49.0  | 43.0  | 39.6  | 38.1  | 36.1  | 36.1  |
| 37.5° | 1231.4 | 663.5 | 96.0  | 69.3  | 54.4  | 44.0  | 38.6  | 36.1  | 34.1  | 32.7  | 32.2  |
| 40°   | 1306.6 | 638.7 | 88.1  | 63.8  | 48.0  | 39.6  | 34.6  | 32.2  | 30.7  | 29.2  | 28.7  |
| 42.5° | 1395.7 | 614.5 | 84.1  | 57.9  | 43.0  | 35.1  | 31.2  | 28.2  | 26.7  | 24.7  | 24.2  |
| 45°   | 1521.8 | 609.0 | 79.7  | 51.5  | 38.6  | 31.7  | 27.2  | 24.2  | 22.3  | 20.8  | 20.3  |
| 47.5° | 1724.7 | 624.4 | 72.2  | 44.5  | 34.1  | 27.7  | 23.3  | 20.8  | 18.3  | 16.8  | 15.8  |
| 50°   | 1926.0 | 620.4 | 64.8  | 38.6  | 30.2  | 23.7  | 19.8  | 17.3  | 14.8  | 13.4  | 12.9  |
| 52.5° | 2035.9 | 601.6 | 57.9  | 34.1  | 26.2  | 20.3  | 16.8  | 13.9  | 12.4  | 10.9  | 10.4  |
| 55°   | 2135.3 | 594.2 | 51.0  | 29.7  | 22.3  | 17.8  | 13.9  | 11.4  | 10.4  | 8.9   | 8.4   |
| 57.5° | 2330.3 | 611.5 | 45.0  | 25.7  | 19.3  | 15.3  | 11.9  | 9.4   | 8.4   | 6.9   | 6.4   |
| 60°   | 2534.1 | 613.5 | 38.6  | 22.3  | 16.8  | 12.9  | 9.4   | 7.4   | 6.4   | 4.9   | 4.5   |
| 62.5° | 2640.5 | 563.5 | 31.7  | 18.8  | 13.9  | 10.9  | 7.9   | 5.9   | 4.9   | 3.0   | 3.0   |
| 65°   | 2551.4 | 455.7 | 26.7  | 15.3  | 10.9  | 8.4   | 5.9   | 4.5   | 3.0   | 1.5   | 0.5   |
| 67.5° | 2258.0 | 324.1 | 22.3  | 12.4  | 7.9   | 5.9   | 4.5   | 3.0   | 0.5   | 0.0   | 0.0   |
| 70°   | 1653.4 | 185.0 | 17.3  | 8.9   | 5.9   | 4.0   | 3.0   | 1.5   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1016.2 | 98.9  | 12.9  | 5.9   | 4.5   | 3.0   | 2.5   | 1.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 385.4  | 47.5  | 7.9   | 4.0   | 3.5   | 2.5   | 1.5   | 0.5   | 0.0   | 0.0   | 0.0   |
| 77.5° | 104.4  | 23.3  | 4.5   | 3.0   | 2.5   | 1.5   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 27.2   | 10.9  | 3.0   | 2.0   | 1.5   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 9.4    | 4.9   | 1.5   | 1.5   | 1.0   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 4.0    | 2.0   | 1.0   | 1.0   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.5    | 0.5   | 0.5   | 0.5   | 0.5   | 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)