

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: P630307

Luminaire Tested: GWS-SA1D-735-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630307  
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-SA1D-735-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

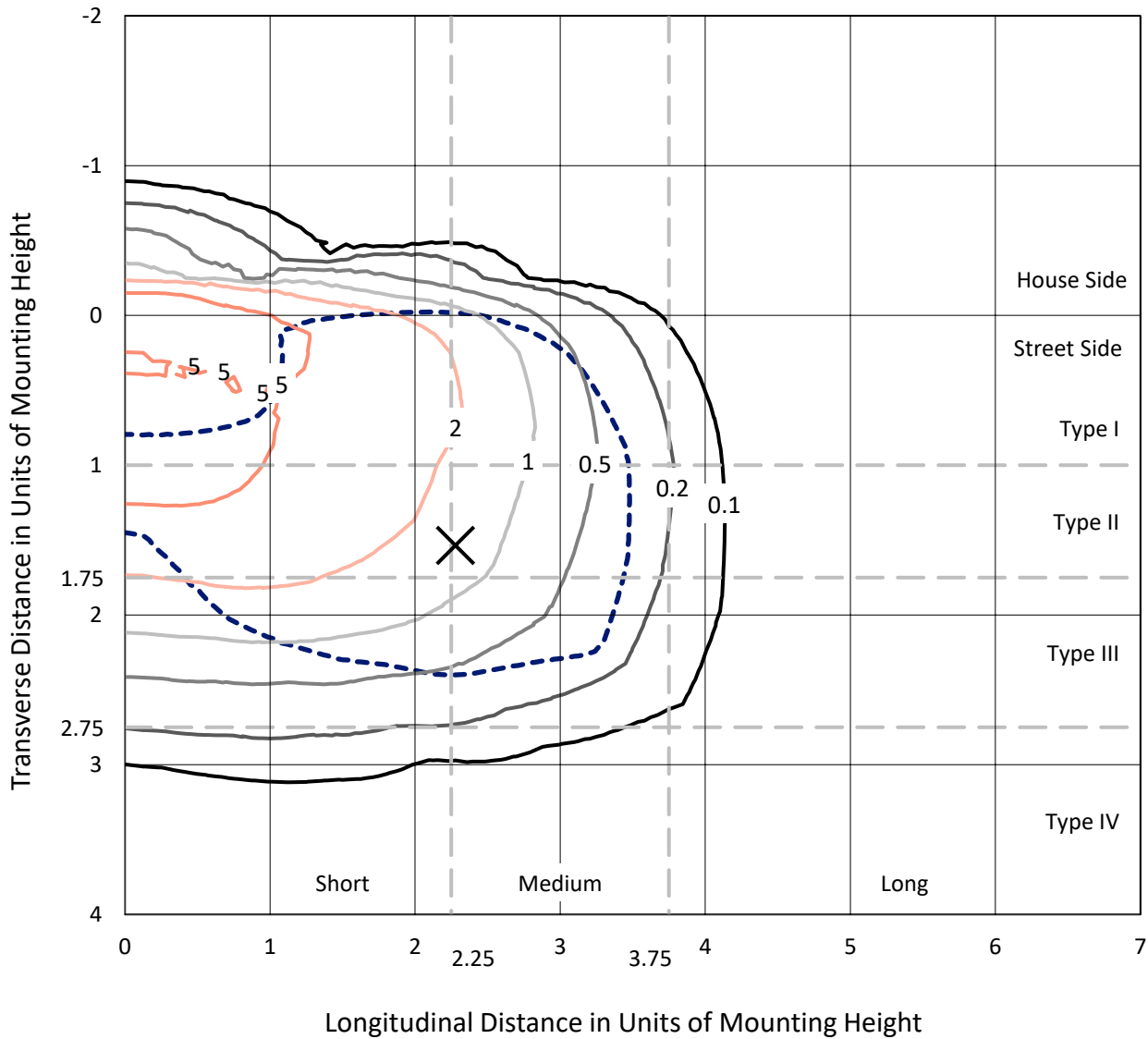
Lumens per Lamp: N/A  
Luminaire Lumens: 4681.8 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

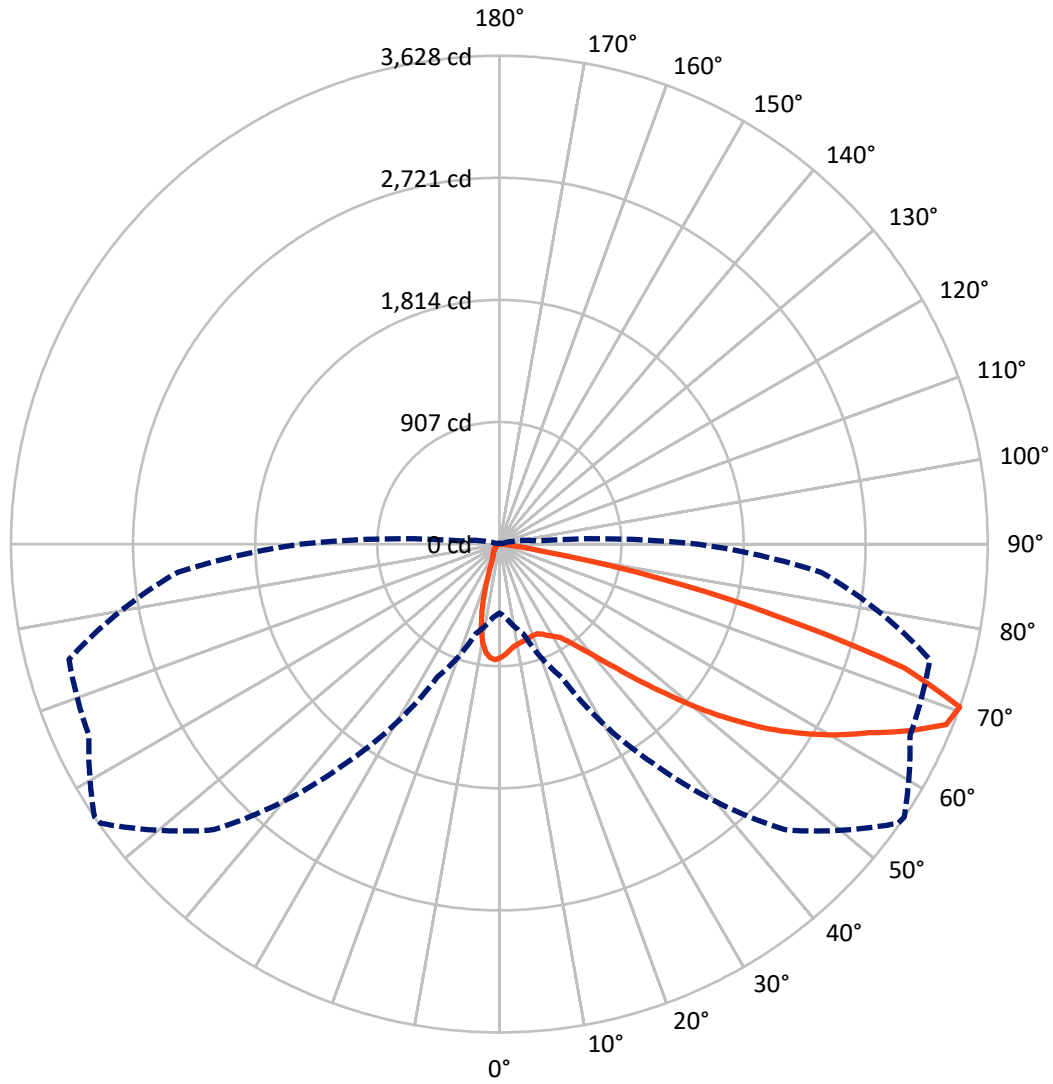
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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    | 420.5    | 0.0    | 420.5  |
|                    | % Fixture | 9.0      | 0.0    | 9.0    |
| <b>Street Side</b> | Lumens    | 4261.3   | 0.0    | 4261.3 |
|                    | % Fixture | 91.0     | 0.0    | 91.0   |
| <b>Total</b>       | Lumens    | 4681.8   | 0.0    | 4681.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.5   | 1.5       |
| 10°-20°   | 163.0  | 3.5       |
| 20°-30°   | 258.2  | 5.5       |
| 30°-40°   | 445.3  | 9.5       |
| 40°-50°   | 752.0  | 16.1      |
| 50°-60°   | 1104.9 | 23.6      |
| 60°-70°   | 1309.9 | 28.0      |
| 70°-80°   | 558.6  | 11.9      |
| 80°-90°   | 17.5   | 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°    | 4681.8 | 100.0     |
| 0°-180°   | 4681.8 | 100.0     |

**Coefficient of Utilization**



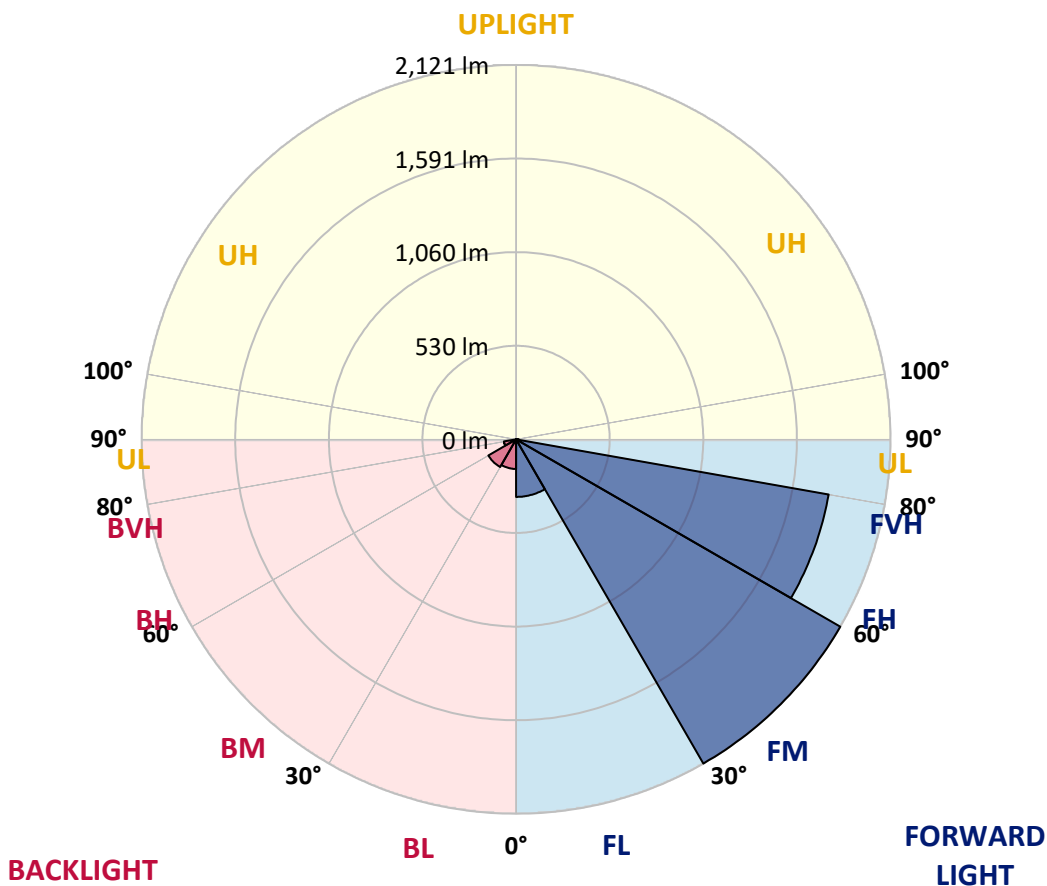
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 326.2  | 7.0       |                         |      |         |
| FM (30°-60°)   | 2121.0 | 45.3      |                         |      |         |
| FH (60°-80°)   | 1798.3 | 38.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 15.8   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 167.5  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 181.1  | 3.9       | B0/220                  |      |         |
| BH (60°-80°)   | 70.1   | 1.5       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.8    | 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-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 844.2  | 844.2  | 844.2  | 844.2  | 844.2  | 844.2  | 844.2  | 844.2  | 844.2  | 844.2  | 844.2  |
| 2.5°  | 785.9  | 784.6  | 785.4  | 791.9  | 803.9  | 809.4  | 818.9  | 820.6  | 828.3  | 838.2  | 842.0  |
| 5°    | 734.8  | 730.6  | 732.7  | 741.7  | 755.4  | 770.9  | 788.4  | 793.2  | 812.4  | 834.3  | 850.6  |
| 7.5°  | 688.1  | 683.4  | 688.5  | 702.7  | 722.0  | 738.7  | 764.9  | 767.9  | 798.7  | 837.3  | 866.9  |
| 10°   | 614.8  | 616.1  | 626.4  | 651.2  | 680.8  | 715.6  | 750.7  | 755.0  | 793.2  | 847.2  | 893.1  |
| 12.5° | 558.6  | 555.6  | 566.8  | 595.1  | 636.7  | 687.3  | 740.0  | 745.6  | 793.6  | 862.2  | 926.5  |
| 15°   | 532.5  | 531.6  | 536.3  | 556.9  | 597.2  | 656.8  | 730.1  | 737.4  | 799.2  | 875.9  | 958.2  |
| 17.5° | 533.3  | 532.1  | 531.6  | 543.6  | 573.6  | 634.1  | 719.4  | 728.8  | 803.9  | 890.9  | 991.7  |
| 20°   | 570.6  | 564.6  | 553.9  | 548.3  | 566.4  | 619.5  | 712.1  | 722.8  | 810.7  | 906.8  | 1027.2 |
| 22.5° | 648.7  | 650.8  | 622.1  | 592.1  | 583.5  | 621.2  | 711.3  | 723.7  | 825.7  | 931.6  | 1071.0 |
| 25°   | 804.7  | 801.3  | 748.1  | 680.8  | 634.1  | 641.0  | 726.3  | 741.3  | 855.3  | 967.2  | 1112.1 |
| 27.5° | 1000.2 | 1003.2 | 930.4  | 823.2  | 725.4  | 681.7  | 753.7  | 768.7  | 889.6  | 989.5  | 1139.6 |
| 30°   | 1213.3 | 1210.3 | 1132.3 | 1013.5 | 854.9  | 749.4  | 781.2  | 794.4  | 906.8  | 1001.5 | 1167.9 |
| 32.5° | 1414.8 | 1408.0 | 1330.8 | 1206.5 | 1020.0 | 856.2  | 818.9  | 826.6  | 929.5  | 1027.7 | 1206.0 |
| 35°   | 1586.7 | 1586.3 | 1519.0 | 1386.5 | 1189.7 | 989.9  | 883.6  | 890.1  | 971.9  | 1069.3 | 1262.2 |
| 37.5° | 1764.2 | 1758.2 | 1682.8 | 1561.9 | 1364.2 | 1136.6 | 982.7  | 980.1  | 1038.8 | 1130.6 | 1331.2 |
| 40°   | 1910.0 | 1906.1 | 1848.3 | 1732.1 | 1545.6 | 1298.6 | 1102.7 | 1095.0 | 1118.1 | 1215.5 | 1427.3 |
| 42.5° | 2018.0 | 2018.5 | 2000.5 | 1929.7 | 1737.7 | 1486.0 | 1253.6 | 1241.6 | 1241.2 | 1343.6 | 1554.2 |
| 45°   | 2099.9 | 2105.5 | 2132.5 | 2121.8 | 1964.5 | 1704.2 | 1447.0 | 1434.5 | 1413.5 | 1510.0 | 1699.5 |
| 47.5° | 2138.1 | 2145.4 | 2226.8 | 2269.7 | 2163.0 | 1920.7 | 1677.2 | 1651.1 | 1609.9 | 1731.2 | 1862.0 |
| 50°   | 2134.2 | 2147.1 | 2260.7 | 2391.0 | 2343.0 | 2140.2 | 1928.0 | 1915.6 | 1848.3 | 1965.3 | 2022.8 |
| 52.5° | 2046.8 | 2074.2 | 2262.9 | 2464.8 | 2481.5 | 2342.6 | 2187.4 | 2164.2 | 2131.7 | 2209.7 | 2173.7 |
| 55°   | 1809.3 | 1842.7 | 2172.4 | 2488.4 | 2589.5 | 2519.2 | 2441.2 | 2422.3 | 2368.3 | 2440.3 | 2305.3 |
| 57.5° | 1680.2 | 1708.9 | 1982.0 | 2476.8 | 2681.3 | 2682.6 | 2667.1 | 2651.7 | 2607.1 | 2668.4 | 2459.6 |
| 60°   | 1602.6 | 1631.3 | 1880.4 | 2434.3 | 2764.5 | 2854.9 | 2879.4 | 2877.7 | 2813.3 | 2927.8 | 2640.6 |
| 62.5° | 1489.0 | 1528.4 | 1774.5 | 2324.2 | 2823.6 | 3024.7 | 3098.5 | 3086.9 | 3015.3 | 3197.9 | 2819.8 |
| 65°   | 1259.6 | 1293.9 | 1557.6 | 2142.4 | 2788.9 | 3165.3 | 3336.0 | 3342.0 | 3259.2 | 3452.2 | 2961.3 |
| 67.5° | 883.2  | 908.5  | 1170.4 | 1760.8 | 2553.1 | 3211.6 | 3579.1 | 3578.6 | 3437.6 | 3582.5 | 2898.7 |
| 70°   | 511.9  | 546.6  | 691.5  | 1088.6 | 1986.3 | 3001.1 | 3615.5 | 3627.9 | 3365.1 | 3310.2 | 2398.8 |
| 72.5° | 198.1  | 226.8  | 391.9  | 578.4  | 1035.8 | 2298.9 | 3110.0 | 3146.5 | 2816.3 | 2553.5 | 1669.5 |
| 75°   | 59.2   | 66.0   | 184.4  | 307.8  | 415.9  | 1110.4 | 2105.5 | 2115.8 | 1931.9 | 1592.7 | 855.8  |
| 77.5° | 44.2   | 48.9   | 80.6   | 155.6  | 145.8  | 336.6  | 1089.4 | 1189.7 | 1025.5 | 568.9  | 235.8  |
| 80°   | 30.0   | 35.6   | 57.5   | 75.9   | 54.0   | 89.6   | 306.1  | 336.1  | 313.0  | 127.8  | 59.2   |
| 82.5° | 13.3   | 17.1   | 40.7   | 38.2   | 19.7   | 25.7   | 94.3   | 100.3  | 64.7   | 38.6   | 20.6   |
| 85°   | 1.3    | 1.7    | 15.4   | 16.7   | 7.3    | 6.0    | 19.7   | 19.7   | 14.1   | 13.3   | 8.6    |
| 87.5° | 0.0    | 0.0    | 0.4    | 0.9    | 0.9    | 1.3    | 1.7    | 2.1    | 2.6    | 3.4    | 4.3    |
| 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°    | 844.2  | 844.2  | 844.2 | 844.2 | 844.2 | 844.2 | 844.2 | 844.2 | 844.2 | 844.2 | 844.2 |
| 2.5°  | 851.9  | 846.7  | 853.2 | 858.3 | 859.6 | 850.2 | 844.6 | 836.5 | 834.7 | 835.2 | 833.0 |
| 5°    | 863.5  | 860.9  | 865.6 | 860.0 | 845.5 | 818.0 | 794.4 | 768.3 | 754.1 | 746.0 | 745.1 |
| 7.5°  | 884.9  | 883.6  | 878.5 | 853.2 | 807.7 | 746.9 | 688.1 | 630.7 | 595.1 | 582.2 | 580.1 |
| 10°   | 916.6  | 914.1  | 893.1 | 833.0 | 736.1 | 619.1 | 520.5 | 438.2 | 388.0 | 373.4 | 355.4 |
| 12.5° | 953.1  | 947.9  | 902.1 | 789.7 | 628.1 | 466.0 | 343.0 | 250.8 | 207.5 | 194.6 | 194.6 |
| 15°   | 988.2  | 977.1  | 896.9 | 718.1 | 495.2 | 303.1 | 191.6 | 144.9 | 131.6 | 128.2 | 128.2 |
| 17.5° | 1024.2 | 1002.8 | 876.8 | 620.4 | 342.1 | 179.2 | 127.8 | 118.8 | 117.0 | 117.5 | 117.9 |
| 20°   | 1058.1 | 1024.7 | 841.2 | 502.9 | 218.2 | 125.2 | 114.5 | 112.3 | 111.5 | 112.3 | 111.9 |
| 22.5° | 1095.0 | 1044.8 | 787.2 | 374.7 | 141.9 | 112.8 | 108.9 | 107.2 | 106.3 | 107.6 | 107.6 |
| 25°   | 1131.4 | 1059.4 | 715.6 | 252.1 | 112.8 | 105.0 | 102.9 | 101.2 | 100.3 | 100.8 | 100.8 |
| 27.5° | 1150.3 | 1053.8 | 621.7 | 160.8 | 101.2 | 97.3  | 95.2  | 93.0  | 91.7  | 91.3  | 91.7  |
| 30°   | 1163.2 | 1036.7 | 506.8 | 114.5 | 91.7  | 87.0  | 84.9  | 83.2  | 79.7  | 77.6  | 78.5  |
| 32.5° | 1183.3 | 1019.5 | 382.0 | 96.0  | 84.0  | 76.7  | 73.3  | 69.0  | 64.3  | 62.2  | 62.2  |
| 35°   | 1207.3 | 995.9  | 268.0 | 86.6  | 75.9  | 68.2  | 61.7  | 54.4  | 48.9  | 47.2  | 47.2  |
| 37.5° | 1239.0 | 973.7  | 178.4 | 80.2  | 69.0  | 60.9  | 51.9  | 43.3  | 37.3  | 36.4  | 36.0  |
| 40°   | 1286.6 | 954.8  | 125.6 | 75.5  | 63.0  | 53.2  | 42.4  | 33.4  | 29.2  | 27.9  | 27.9  |
| 42.5° | 1348.4 | 935.5  | 99.5  | 70.7  | 57.9  | 45.9  | 33.9  | 26.6  | 23.2  | 22.3  | 21.9  |
| 45°   | 1424.7 | 912.8  | 86.6  | 66.5  | 52.7  | 38.2  | 27.0  | 22.3  | 19.7  | 18.9  | 18.9  |
| 47.5° | 1507.4 | 881.9  | 80.6  | 60.9  | 46.7  | 30.9  | 22.7  | 19.3  | 18.0  | 17.6  | 17.1  |
| 50°   | 1588.9 | 840.3  | 75.5  | 55.7  | 39.9  | 25.3  | 19.7  | 17.6  | 16.7  | 16.3  | 16.3  |
| 52.5° | 1660.1 | 791.9  | 69.0  | 49.7  | 32.6  | 21.9  | 17.6  | 16.3  | 15.4  | 14.6  | 14.1  |
| 55°   | 1720.9 | 739.1  | 60.9  | 42.9  | 26.6  | 19.3  | 16.3  | 15.0  | 14.1  | 13.3  | 12.9  |
| 57.5° | 1799.4 | 709.1  | 48.9  | 34.7  | 21.9  | 17.1  | 15.0  | 13.7  | 12.9  | 11.6  | 11.6  |
| 60°   | 1886.4 | 687.3  | 36.4  | 27.4  | 18.9  | 15.9  | 13.7  | 12.4  | 11.6  | 10.3  | 10.3  |
| 62.5° | 1956.3 | 654.7  | 28.7  | 22.3  | 16.3  | 14.1  | 12.4  | 11.1  | 10.3  | 9.0   | 9.0   |
| 65°   | 1982.9 | 587.4  | 23.6  | 17.6  | 13.3  | 12.4  | 11.1  | 10.3  | 9.0   | 7.7   | 7.7   |
| 67.5° | 1862.8 | 452.7  | 19.7  | 14.1  | 11.1  | 10.7  | 9.9   | 9.4   | 7.7   | 6.9   | 6.4   |
| 70°   | 1475.3 | 276.1  | 16.3  | 11.6  | 9.4   | 9.0   | 9.0   | 8.1   | 6.9   | 6.4   | 6.0   |
| 72.5° | 1011.0 | 142.3  | 13.3  | 9.4   | 8.1   | 8.1   | 7.7   | 7.3   | 6.4   | 6.0   | 6.0   |
| 75°   | 525.2  | 47.6   | 10.3  | 7.3   | 6.4   | 6.9   | 6.9   | 6.4   | 6.0   | 6.0   | 5.6   |
| 77.5° | 150.5  | 21.4   | 7.7   | 5.6   | 5.1   | 5.1   | 5.6   | 5.6   | 5.6   | 5.1   | 5.1   |
| 80°   | 39.0   | 12.4   | 5.6   | 4.3   | 4.3   | 4.3   | 4.3   | 4.7   | 5.1   | 4.7   | 4.7   |
| 82.5° | 15.9   | 6.9    | 3.9   | 3.4   | 3.4   | 3.4   | 3.4   | 3.9   | 4.3   | 4.3   | 4.3   |
| 85°   | 9.9    | 3.4    | 3.0   | 3.0   | 3.0   | 2.6   | 2.6   | 3.0   | 3.0   | 3.4   | 3.4   |
| 87.5° | 6.0    | 2.6    | 2.6   | 2.6   | 2.6   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   |
| 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)