

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: P635580

Luminaire Tested: GWS-SA3E-722-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-722-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16517.6 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 159.2  
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

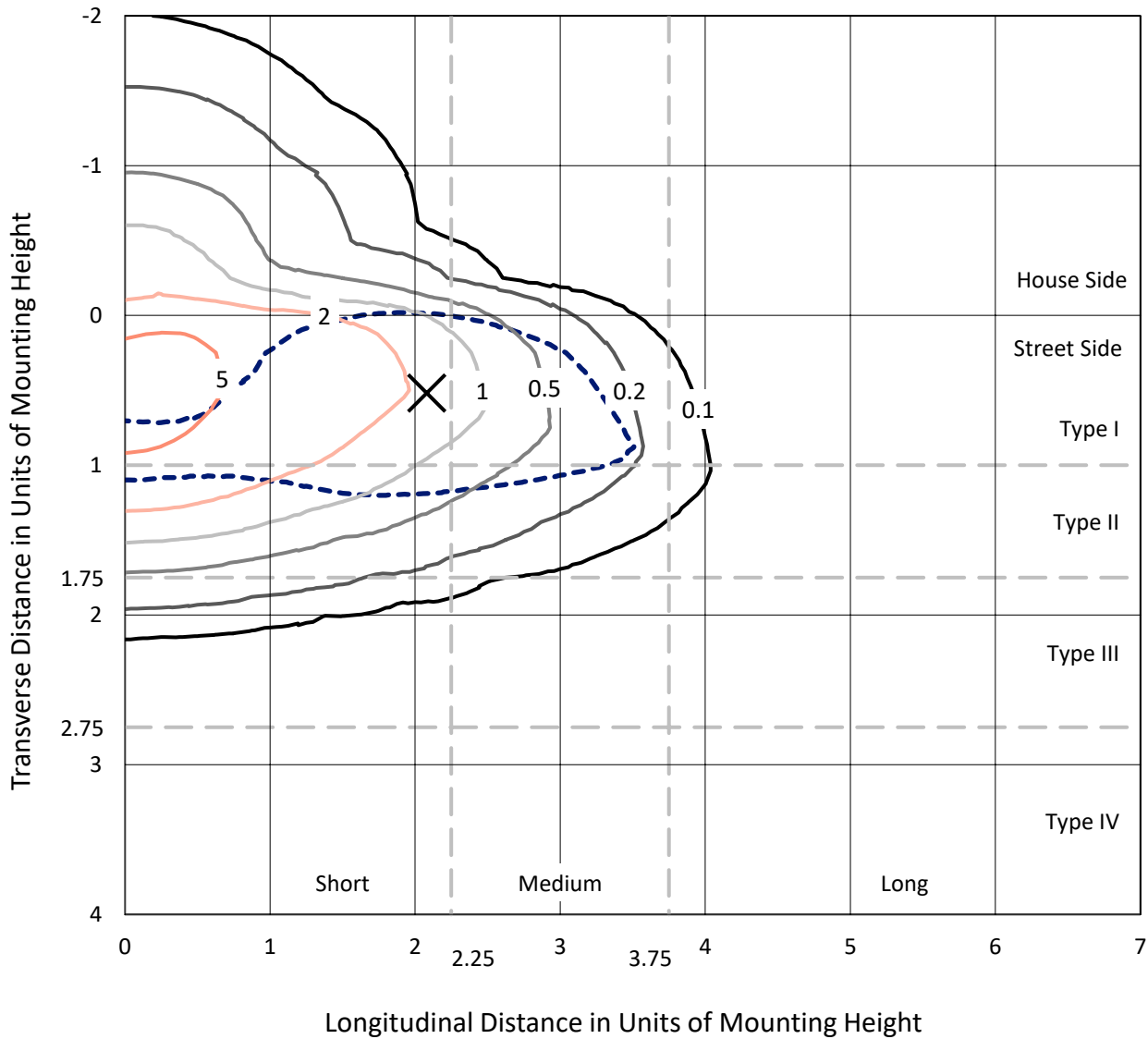


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### Iso-Footcandle Lines of Horizontal Illumination

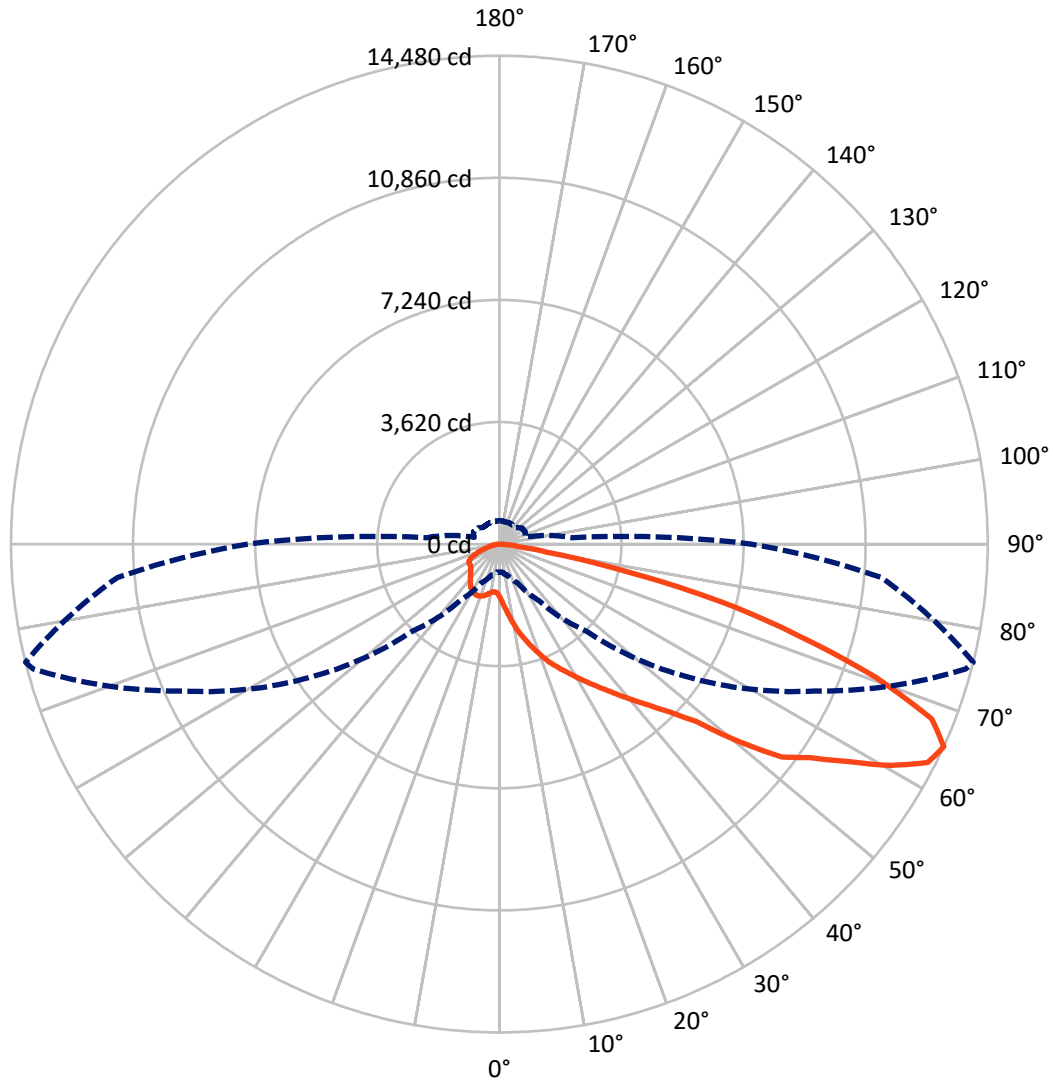
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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    | 2760.9   | 0.0    | 2760.9  |
|                    | % Fixture | 16.7     | 0.0    | 16.7    |
| <b>Street Side</b> | Lumens    | 13756.7  | 0.0    | 13756.7 |
|                    | % Fixture | 83.3     | 0.0    | 83.3    |
| <b>Total</b>       | Lumens    | 16517.6  | 0.0    | 16517.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 185.8   | 1.1       |
| 10°-20°   | 707.8   | 4.3       |
| 20°-30°   | 1379.4  | 8.4       |
| 30°-40°   | 2307.0  | 14.0      |
| 40°-50°   | 3303.2  | 20.0      |
| 50°-60°   | 3910.5  | 23.7      |
| 60°-70°   | 3251.6  | 19.7      |
| 70°-80°   | 1330.6  | 8.1       |
| 80°-90°   | 141.7   | 0.9       |
| 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°    | 16517.6 | 100.0     |
| 0°-180°   | 16517.6 | 100.0     |

**Coefficient of Utilization**



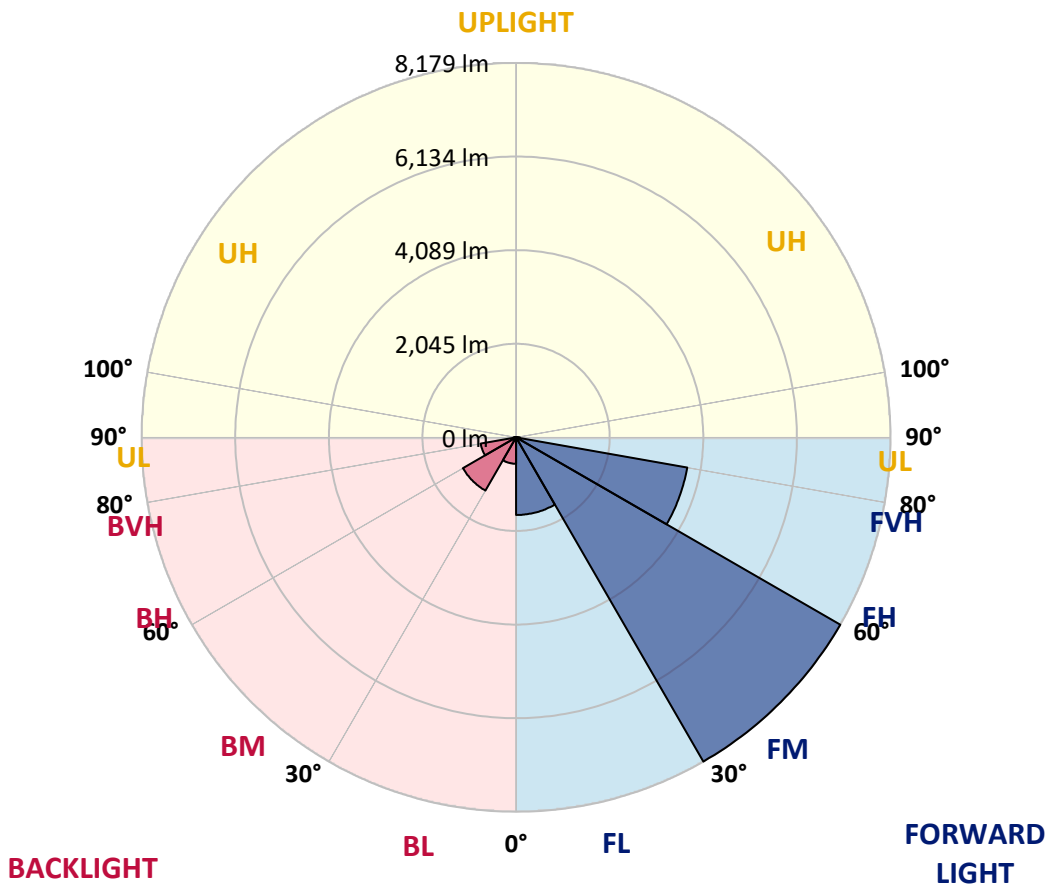
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1695.5 | 10.3      |                         |      |         |
| FM (30°-60°)   | 8178.9 | 49.5      |                         |      |         |
| FH (60°-80°)   | 3797.8 | 23.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 84.5   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 577.6  | 3.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1341.8 | 8.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 784.4  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 57.2   | 0.3       |                         |      | G1/100  |
| 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°    | 65°     | 75°     | 76°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2  | 1564.2  | 1564.2  | 1564.2  |
| 2.5°  | 2192.4 | 2200.5 | 2173.8 | 2164.5 | 2101.8 | 2017.0 | 1946.2 | 1839.4  | 1740.7  | 1725.6  | 1637.3  |
| 5°    | 2784.6 | 2749.8 | 2719.6 | 2699.8 | 2612.7 | 2516.4 | 2366.6 | 2165.7  | 1955.5  | 1929.9  | 1739.5  |
| 7.5°  | 3136.4 | 3130.6 | 3093.5 | 3081.9 | 3014.5 | 2918.1 | 2763.7 | 2514.0  | 2208.6  | 2166.8  | 1877.7  |
| 10°   | 3418.6 | 3415.1 | 3396.6 | 3407.0 | 3345.5 | 3251.4 | 3101.6 | 2843.8  | 2486.2  | 2444.4  | 2032.1  |
| 12.5° | 3664.8 | 3670.6 | 3667.1 | 3705.4 | 3674.1 | 3600.9 | 3445.3 | 3162.0  | 2763.7  | 2718.4  | 2220.2  |
| 15°   | 3844.8 | 3849.4 | 3866.8 | 3950.5 | 3967.9 | 3952.8 | 3794.8 | 3474.4  | 3037.7  | 2972.7  | 2414.2  |
| 17.5° | 3895.9 | 3905.2 | 3947.0 | 4081.7 | 4175.7 | 4238.4 | 4121.1 | 3792.5  | 3307.1  | 3236.3  | 2611.6  |
| 20°   | 3964.4 | 3974.8 | 4016.6 | 4157.1 | 4295.3 | 4438.2 | 4417.3 | 4115.3  | 3578.9  | 3520.8  | 2811.3  |
| 22.5° | 4281.4 | 4273.3 | 4254.7 | 4322.0 | 4420.7 | 4598.4 | 4650.7 | 4425.4  | 3859.9  | 3804.1  | 3031.9  |
| 25°   | 4892.2 | 4877.1 | 4758.7 | 4697.1 | 4664.6 | 4772.6 | 4865.5 | 4707.6  | 4133.9  | 4050.3  | 3237.5  |
| 27.5° | 5565.7 | 5557.6 | 5406.6 | 5260.3 | 5060.6 | 5014.1 | 5068.7 | 4953.7  | 4399.8  | 4315.1  | 3416.3  |
| 30°   | 6203.2 | 6178.8 | 6020.9 | 5837.4 | 5570.3 | 5370.6 | 5290.5 | 5195.3  | 4691.3  | 4603.1  | 3625.3  |
| 32.5° | 6773.4 | 6742.0 | 6556.2 | 6353.0 | 6073.2 | 5837.4 | 5598.2 | 5451.9  | 5021.1  | 4918.9  | 3839.0  |
| 35°   | 7241.3 | 7210.0 | 7019.5 | 6803.6 | 6495.8 | 6321.7 | 5994.2 | 5730.6  | 5356.7  | 5253.3  | 4091.0  |
| 37.5° | 7603.6 | 7574.6 | 7376.0 | 7163.5 | 6895.3 | 6757.1 | 6472.6 | 6044.1  | 5743.4  | 5635.4  | 4358.0  |
| 40°   | 7806.8 | 7785.9 | 7626.9 | 7458.5 | 7233.2 | 7113.6 | 6985.9 | 6440.1  | 6176.5  | 6068.5  | 4672.7  |
| 42.5° | 7868.4 | 7854.5 | 7743.0 | 7655.9 | 7503.8 | 7413.2 | 7486.3 | 6905.7  | 6638.7  | 6544.6  | 5026.9  |
| 45°   | 7713.9 | 7713.9 | 7681.4 | 7725.6 | 7732.5 | 7731.4 | 7988.0 | 7431.8  | 7206.5  | 7103.1  | 5526.2  |
| 47.5° | 7319.1 | 7344.7 | 7392.3 | 7609.4 | 7838.2 | 8029.8 | 8574.4 | 8133.1  | 7936.9  | 7852.1  | 6233.4  |
| 50°   | 6596.9 | 6666.5 | 6829.1 | 7252.9 | 7739.5 | 8227.2 | 9129.5 | 9170.1  | 9357.1  | 9207.3  | 7273.8  |
| 52.5° | 5539.0 | 5528.5 | 5943.1 | 6546.9 | 7288.9 | 8235.3 | 9434.9 | 10085.1 | 10588.0 | 10484.6 | 8047.2  |
| 55°   | 4402.2 | 4384.7 | 4771.4 | 5604.0 | 6598.0 | 7924.1 | 9618.3 | 10504.3 | 11270.7 | 11177.8 | 8742.8  |
| 57.5° | 3371.0 | 3348.9 | 3692.7 | 4444.0 | 5622.6 | 7263.4 | 9583.5 | 11003.7 | 12210.2 | 12162.6 | 9688.0  |
| 60°   | 2320.1 | 2293.4 | 2615.1 | 3272.3 | 4468.4 | 6253.1 | 9198.0 | 11260.3 | 13309.8 | 13326.1 | 10699.4 |
| 62.5° | 1393.5 | 1378.4 | 1611.8 | 2121.5 | 3214.2 | 5001.3 | 8295.7 | 11104.7 | 14185.4 | 14258.6 | 11349.7 |
| 65°   | 840.7  | 830.3  | 967.3  | 1265.7 | 2039.1 | 3649.7 | 6904.6 | 10309.3 | 14312.0 | 14480.3 | 11364.8 |
| 67.5° | 612.0  | 613.1  | 652.6  | 771.0  | 1189.1 | 2357.3 | 5181.3 | 8883.3  | 13652.4 | 13826.6 | 10648.3 |
| 70°   | 531.8  | 534.2  | 555.1  | 581.8  | 718.8  | 1349.3 | 3368.7 | 7012.6  | 11702.7 | 11837.4 | 8930.9  |
| 72.5° | 472.6  | 472.6  | 486.5  | 500.5  | 562.0  | 822.1  | 1804.5 | 4901.5  | 9236.3  | 9272.3  | 6816.3  |
| 75°   | 415.7  | 412.2  | 419.2  | 426.2  | 487.7  | 574.8  | 877.9  | 3415.1  | 6822.1  | 6738.5  | 4405.6  |
| 77.5° | 330.9  | 327.5  | 328.6  | 335.6  | 391.3  | 411.1  | 444.7  | 2133.2  | 3844.8  | 3628.8  | 1946.2  |
| 80°   | 235.7  | 233.4  | 246.2  | 263.6  | 289.1  | 252.0  | 278.7  | 1032.3  | 1524.7  | 1419.0  | 754.8   |
| 82.5° | 140.5  | 145.2  | 164.9  | 178.8  | 199.7  | 157.9  | 180.0  | 344.9   | 540.0   | 526.0   | 306.6   |
| 85°   | 19.7   | 20.9   | 59.2   | 68.5   | 85.9   | 61.5   | 95.2   | 155.6   | 216.0   | 231.1   | 108.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 8.1    | 27.9    | 61.5    | 62.7    | 26.7    |
| 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°    | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 | 1564.2 |
| 2.5°  | 1592.0 | 1537.4 | 1459.6 | 1394.6 | 1340.0 | 1295.9 | 1258.8 | 1230.9 | 1222.8 | 1211.1 | 1211.1 |
| 5°    | 1650.1 | 1551.4 | 1412.0 | 1313.3 | 1256.4 | 1222.8 | 1199.5 | 1187.9 | 1182.1 | 1175.1 | 1171.7 |
| 7.5°  | 1730.2 | 1592.0 | 1403.9 | 1304.0 | 1259.9 | 1239.0 | 1223.9 | 1217.0 | 1212.3 | 1205.3 | 1205.3 |
| 10°   | 1840.5 | 1652.4 | 1429.5 | 1336.6 | 1301.7 | 1280.8 | 1263.4 | 1251.8 | 1241.3 | 1230.9 | 1228.6 |
| 12.5° | 1960.1 | 1731.4 | 1475.9 | 1380.7 | 1343.5 | 1318.0 | 1293.6 | 1276.2 | 1263.4 | 1250.6 | 1247.1 |
| 15°   | 2092.5 | 1812.7 | 1525.8 | 1423.6 | 1377.2 | 1342.4 | 1313.3 | 1286.6 | 1269.2 | 1250.6 | 1248.3 |
| 17.5° | 2222.6 | 1895.1 | 1567.6 | 1452.7 | 1393.5 | 1350.5 | 1308.7 | 1273.9 | 1251.8 | 1230.9 | 1225.1 |
| 20°   | 2378.2 | 1977.5 | 1596.7 | 1460.8 | 1390.0 | 1333.1 | 1283.1 | 1239.0 | 1214.6 | 1190.2 | 1186.8 |
| 22.5° | 2521.0 | 2054.2 | 1610.6 | 1449.2 | 1363.3 | 1295.9 | 1237.9 | 1190.2 | 1163.5 | 1139.2 | 1134.5 |
| 25°   | 2659.2 | 2121.5 | 1604.8 | 1421.3 | 1322.6 | 1244.8 | 1184.4 | 1136.8 | 1111.3 | 1085.7 | 1078.8 |
| 27.5° | 2792.7 | 2166.8 | 1581.6 | 1378.4 | 1271.5 | 1187.9 | 1129.9 | 1086.9 | 1064.8 | 1042.8 | 1033.5 |
| 30°   | 2923.9 | 2208.6 | 1545.6 | 1322.6 | 1206.5 | 1128.7 | 1081.1 | 1050.9 | 1028.8 | 1005.6 | 998.6  |
| 32.5° | 3056.3 | 2238.8 | 1491.0 | 1257.6 | 1140.3 | 1076.4 | 1047.4 | 1025.4 | 1002.1 | 978.9  | 971.9  |
| 35°   | 3189.9 | 2251.6 | 1424.8 | 1183.3 | 1084.6 | 1042.8 | 1032.3 | 1006.8 | 975.4  | 947.6  | 938.3  |
| 37.5° | 3348.9 | 2263.2 | 1342.4 | 1110.1 | 1035.8 | 1026.5 | 1024.2 | 985.9  | 948.7  | 910.4  | 899.9  |
| 40°   | 3540.5 | 2278.3 | 1257.6 | 1043.9 | 996.3  | 1020.7 | 1011.4 | 959.2  | 884.8  | 847.7  | 836.1  |
| 42.5° | 3775.1 | 2306.2 | 1169.3 | 983.5  | 967.3  | 998.6  | 988.2  | 894.1  | 844.2  | 823.3  | 817.5  |
| 45°   | 4120.0 | 2408.4 | 1081.1 | 935.9  | 945.2  | 967.3  | 951.0  | 855.8  | 836.1  | 822.1  | 815.2  |
| 47.5° | 4734.3 | 2565.1 | 1004.5 | 899.9  | 927.8  | 939.4  | 876.7  | 845.4  | 830.3  | 811.7  | 803.6  |
| 50°   | 5372.9 | 2633.6 | 942.9  | 877.9  | 908.1  | 913.9  | 836.1  | 831.4  | 821.0  | 801.2  | 793.1  |
| 52.5° | 5804.9 | 2624.3 | 905.7  | 869.7  | 891.8  | 869.7  | 817.5  | 816.3  | 809.4  | 786.1  | 776.9  |
| 55°   | 6292.6 | 2640.6 | 889.5  | 872.1  | 884.8  | 795.4  | 794.3  | 797.8  | 794.3  | 768.7  | 764.1  |
| 57.5° | 6951.0 | 2690.5 | 881.4  | 880.2  | 880.2  | 759.4  | 772.2  | 776.9  | 769.9  | 758.3  | 754.8  |
| 60°   | 7583.9 | 2694.0 | 866.3  | 889.5  | 876.7  | 737.4  | 746.7  | 751.3  | 743.2  | 740.9  | 739.7  |
| 62.5° | 7821.9 | 2526.8 | 832.6  | 882.5  | 862.8  | 713.0  | 720.0  | 722.3  | 714.1  | 720.0  | 718.8  |
| 65°   | 7467.8 | 2171.5 | 776.9  | 848.8  | 819.8  | 690.9  | 686.3  | 692.1  | 678.1  | 693.2  | 694.4  |
| 67.5° | 6630.5 | 1725.6 | 692.1  | 785.0  | 759.4  | 666.5  | 657.2  | 657.2  | 634.0  | 657.2  | 656.1  |
| 70°   | 5346.2 | 1219.3 | 567.8  | 682.8  | 693.2  | 637.5  | 632.9  | 606.2  | 569.0  | 603.8  | 600.3  |
| 72.5° | 4052.6 | 875.6  | 447.1  | 540.0  | 596.9  | 596.9  | 598.0  | 552.7  | 509.8  | 526.0  | 512.1  |
| 75°   | 2567.4 | 616.6  | 357.7  | 413.4  | 468.0  | 523.7  | 550.4  | 466.8  | 428.5  | 421.5  | 414.6  |
| 77.5° | 1156.6 | 405.3  | 278.7  | 317.0  | 332.1  | 413.4  | 502.8  | 401.8  | 349.5  | 334.4  | 329.8  |
| 80°   | 484.2  | 252.0  | 198.6  | 224.1  | 204.4  | 347.2  | 443.6  | 312.4  | 256.6  | 235.7  | 220.6  |
| 82.5° | 212.5  | 149.8  | 126.6  | 120.8  | 127.7  | 257.8  | 330.9  | 207.9  | 160.2  | 217.1  | 219.5  |
| 85°   | 89.4   | 79.0   | 65.0   | 59.2   | 52.3   | 98.7   | 155.6  | 81.3   | 99.9   | 56.9   | 46.4   |
| 87.5° | 20.9   | 23.2   | 17.4   | 11.6   | 7.0    | 1.2    | 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)