

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: P637321

Luminaire Tested: GWS-SA4C-750-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-750-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

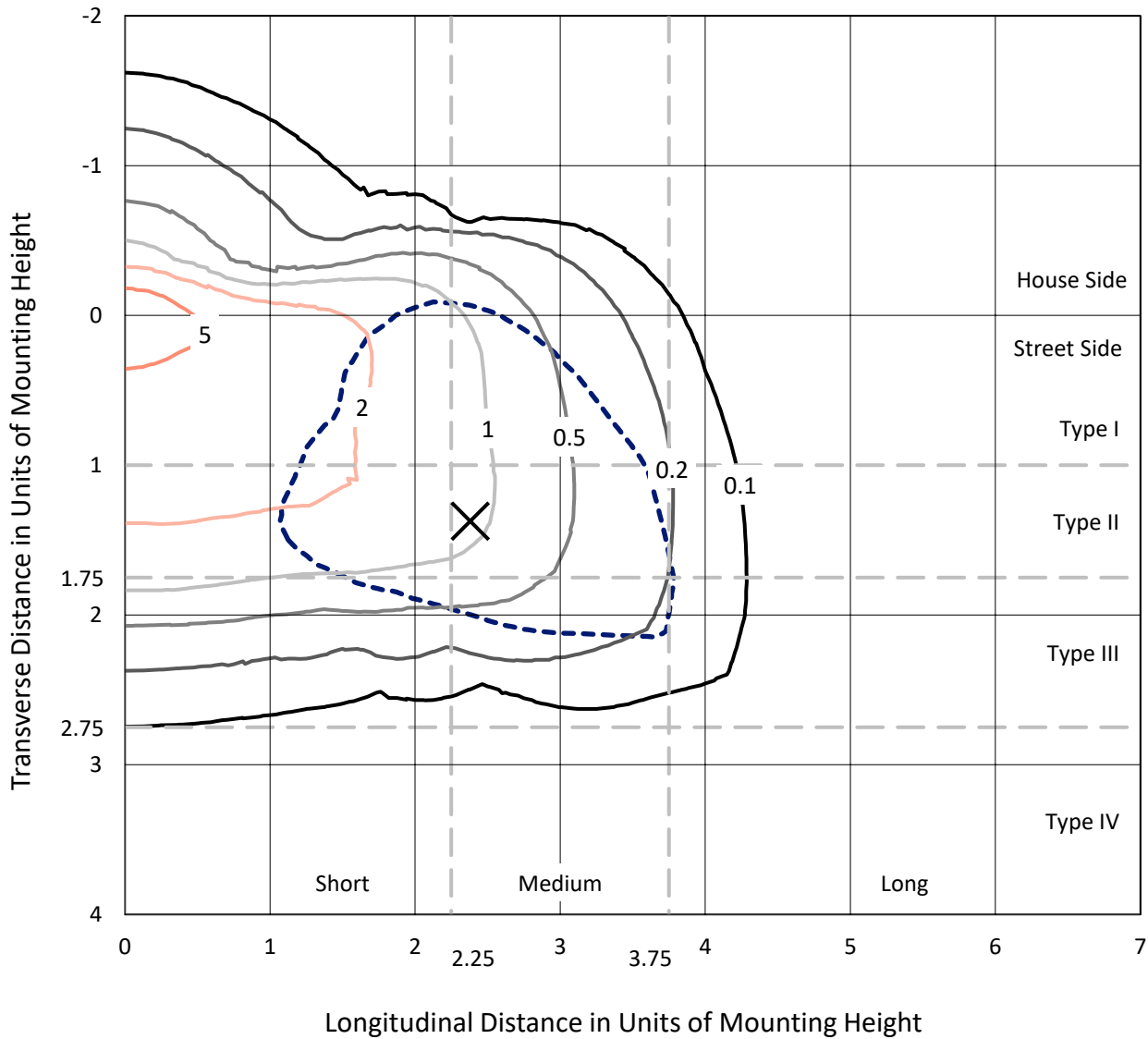
Lumens per Lamp: N/A  
Luminaire Lumens: 19455.8 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

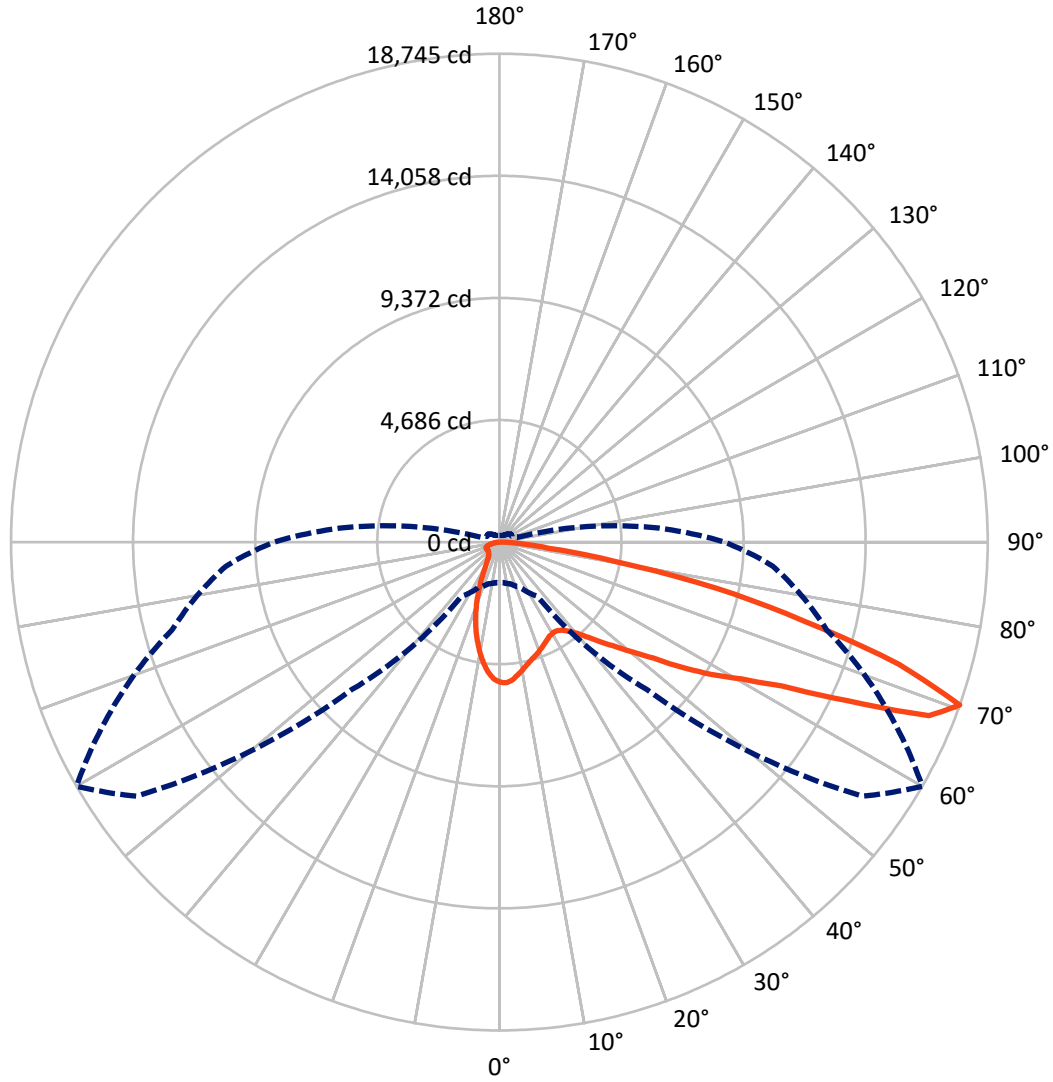
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3327.4   | 0.0    | 3327.4  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 16128.4  | 0.0    | 16128.4 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 19455.8  | 0.0    | 19455.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 464.0   | 2.4       |
| 10°-20°   | 1039.6  | 5.3       |
| 20°-30°   | 1331.4  | 6.8       |
| 30°-40°   | 1749.8  | 9.0       |
| 40°-50°   | 2538.7  | 13.0      |
| 50°-60°   | 3960.9  | 20.4      |
| 60°-70°   | 5185.6  | 26.7      |
| 70°-80°   | 2867.5  | 14.7      |
| 80°-90°   | 318.2   | 1.6       |
| 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°    | 19455.8 | 100.0     |
| 0°-180°   | 19455.8 | 100.0     |

**Coefficient of Utilization**



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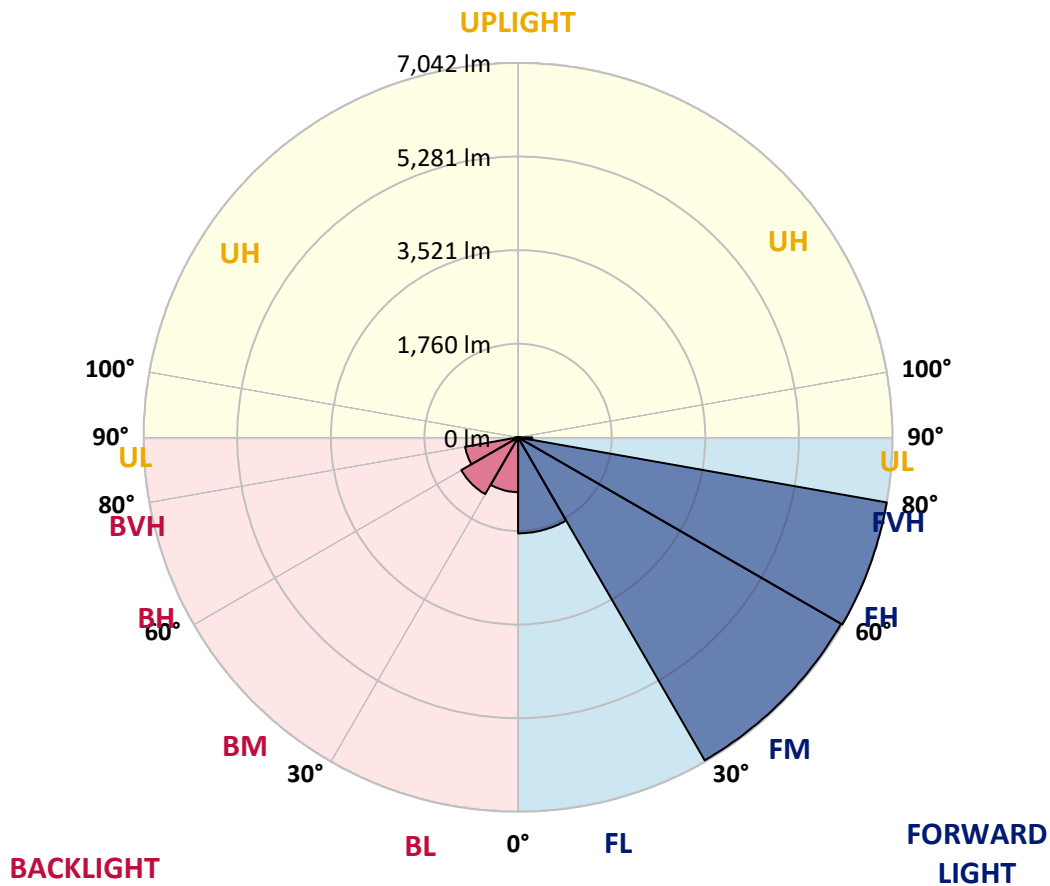
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1805.6 | 9.3       |                         |      |         |
| FM (30°-60°)   | 7015.7 | 36.1      |                         |      |         |
| FH (60°-80°)   | 7041.9 | 36.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 265.2  | 1.4       |                         |      | G3/500  |
| BL (0°-30°)    | 1029.5 | 5.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 1233.7 | 6.3       | B2/2500                 |      |         |
| BH (60°-80°)   | 1011.2 | 5.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 53.1   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 5383.7 | 5383.7 | 5383.7 | 5383.7 | 5383.7 | 5383.7  | 5383.7  | 5383.7  | 5383.7  | 5383.7  | 5383.7  |
| 2.5°  | 5308.2 | 5313.9 | 5329.6 | 5352.4 | 5375.1 | 5386.5  | 5415.0  | 5406.4  | 5400.8  | 5389.4  | 5375.1  |
| 5°    | 5073.3 | 5084.7 | 5099.0 | 5143.1 | 5192.9 | 5232.8  | 5296.8  | 5304.0  | 5306.8  | 5312.5  | 5289.7  |
| 7.5°  | 4774.4 | 4777.3 | 4811.4 | 4869.8 | 4935.3 | 5003.6  | 5110.4  | 5140.3  | 5165.9  | 5194.3  | 5175.8  |
| 10°   | 4444.2 | 4451.3 | 4476.9 | 4560.9 | 4673.3 | 4774.4  | 4918.2  | 4968.0  | 5022.1  | 5084.7  | 5059.1  |
| 12.5° | 4173.7 | 4175.1 | 4216.4 | 4306.1 | 4428.5 | 4565.2  | 4744.5  | 4804.3  | 4875.5  | 4973.7  | 4950.9  |
| 15°   | 3958.7 | 3958.7 | 3997.2 | 4074.1 | 4215.0 | 4375.8  | 4589.4  | 4666.2  | 4763.0  | 4895.4  | 4855.6  |
| 17.5° | 3787.9 | 3789.4 | 3813.6 | 3894.7 | 4020.0 | 4197.9  | 4451.3  | 4555.2  | 4662.0  | 4837.0  | 4777.3  |
| 20°   | 3698.2 | 3691.1 | 3695.4 | 3745.2 | 3852.0 | 4024.2  | 4313.2  | 4434.2  | 4578.0  | 4797.2  | 4706.1  |
| 22.5° | 3694.0 | 3681.2 | 3662.7 | 3666.9 | 3729.6 | 3871.9  | 4165.2  | 4311.8  | 4492.6  | 4764.4  | 4633.5  |
| 25°   | 3766.6 | 3752.3 | 3719.6 | 3682.6 | 3676.9 | 3762.3  | 4025.7  | 4192.2  | 4404.3  | 4750.2  | 4563.7  |
| 27.5° | 3889.0 | 3879.0 | 3836.3 | 3780.8 | 3722.4 | 3719.6  | 3920.3  | 4094.0  | 4340.2  | 4764.4  | 4513.9  |
| 30°   | 4051.3 | 4034.2 | 4007.1 | 3936.0 | 3847.7 | 3756.6  | 3879.0  | 4041.3  | 4297.5  | 4810.0  | 4492.6  |
| 32.5° | 4234.9 | 4224.9 | 4199.3 | 4128.1 | 4034.2 | 3889.0  | 3911.8  | 4052.7  | 4297.5  | 4889.7  | 4496.8  |
| 35°   | 4429.9 | 4428.5 | 4428.5 | 4381.5 | 4277.6 | 4096.8  | 4041.3  | 4149.5  | 4363.0  | 5017.8  | 4542.4  |
| 37.5° | 4619.3 | 4617.8 | 4663.4 | 4680.5 | 4562.3 | 4367.3  | 4262.0  | 4343.1  | 4506.8  | 5207.2  | 4654.8  |
| 40°   | 4773.0 | 4778.7 | 4878.3 | 4963.7 | 4898.3 | 4717.5  | 4569.4  | 4610.7  | 4740.3  | 5476.2  | 4851.3  |
| 42.5° | 4928.2 | 4943.8 | 5093.3 | 5244.2 | 5269.8 | 5113.2  | 4963.7  | 4987.9  | 5074.8  | 5832.1  | 5144.5  |
| 45°   | 5097.5 | 5104.7 | 5313.9 | 5524.6 | 5648.4 | 5555.9  | 5433.5  | 5466.2  | 5486.2  | 6271.9  | 5581.5  |
| 47.5° | 5261.3 | 5279.8 | 5550.2 | 5839.2 | 6074.1 | 6065.5  | 5997.2  | 5987.2  | 5991.5  | 6807.2  | 6098.3  |
| 50°   | 5484.7 | 5511.8 | 5829.2 | 6178.0 | 6522.5 | 6680.5  | 6700.4  | 6625.0  | 6593.6  | 7402.2  | 6741.7  |
| 52.5° | 5908.9 | 5908.9 | 6193.6 | 6536.7 | 6999.3 | 7390.8  | 7524.6  | 7400.8  | 7301.1  | 8031.4  | 7425.0  |
| 55°   | 6439.9 | 6462.7 | 6689.0 | 6966.6 | 7553.1 | 8138.1  | 8590.8  | 8454.2  | 8172.3  | 8716.1  | 8141.0  |
| 57.5° | 6676.2 | 6704.7 | 7063.4 | 7494.7 | 8277.6 | 8988.0  | 9615.7  | 9567.3  | 9155.9  | 9427.8  | 8884.1  |
| 60°   | 6249.2 | 6308.9 | 6802.9 | 7526.0 | 8933.9 | 10358.8 | 10801.5 | 10660.6 | 10072.7 | 10175.2 | 9689.8  |
| 62.5° | 5212.9 | 5278.3 | 5826.4 | 6835.6 | 8842.8 | 11840.7 | 12670.6 | 12151.0 | 11217.2 | 11118.9 | 10763.1 |
| 65°   | 3110.3 | 3107.5 | 3766.6 | 5104.7 | 7719.6 | 12252.1 | 15628.6 | 14659.2 | 12985.2 | 12414.3 | 11867.7 |
| 67.5° | 1977.2 | 1973.0 | 2111.0 | 2704.6 | 5137.4 | 11244.2 | 17530.4 | 17782.3 | 15386.6 | 13366.7 | 11958.8 |
| 70°   | 1560.2 | 1558.7 | 1658.4 | 1928.8 | 2540.9 | 8001.5  | 17000.8 | 18744.6 | 16837.1 | 13003.7 | 10529.6 |
| 72.5° | 1137.4 | 1140.2 | 1294.0 | 1615.7 | 1960.2 | 4017.1  | 13766.7 | 16038.6 | 15486.2 | 11479.1 | 8548.1  |
| 75°   | 817.1  | 821.4  | 913.9  | 1237.0 | 1807.8 | 2196.5  | 9154.5  | 12059.9 | 11782.3 | 9201.5  | 5880.5  |
| 77.5° | 519.6  | 525.3  | 606.4  | 866.9  | 1460.5 | 1773.7  | 5550.2  | 8513.9  | 7839.2  | 5184.4  | 2091.1  |
| 80°   | 317.4  | 335.9  | 404.3  | 646.3  | 1167.3 | 1331.0  | 2774.4  | 4485.4  | 3926.0  | 1422.1  | 703.2   |
| 82.5° | 163.7  | 177.9  | 243.4  | 400.0  | 804.3  | 1168.7  | 1570.1  | 1884.7  | 1215.7  | 595.0   | 374.4   |
| 85°   | 51.2   | 59.8   | 85.4   | 162.3  | 382.9  | 724.6   | 1039.2  | 936.7   | 558.0   | 280.4   | 173.7   |
| 87.5° | 12.8   | 12.8   | 14.2   | 14.2   | 15.7   | 32.7    | 200.7   | 212.1   | 148.0   | 88.3    | 71.2    |
| 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°    | 5383.7  | 5383.7 | 5383.7 | 5383.7 | 5383.7 | 5383.7 | 5383.7 | 5383.7 | 5383.7 | 5383.7 | 5383.7 |
| 2.5°  | 5346.7  | 5312.5 | 5298.3 | 5296.8 | 5261.3 | 5210.0 | 5175.8 | 5151.6 | 5137.4 | 5134.6 | 5134.6 |
| 5°    | 5251.3  | 5207.2 | 5148.8 | 5104.7 | 5009.3 | 4912.5 | 4831.4 | 4785.8 | 4733.1 | 4726.0 | 4724.6 |
| 7.5°  | 5124.6  | 5060.5 | 4949.5 | 4825.7 | 4659.1 | 4498.3 | 4361.6 | 4269.1 | 4176.5 | 4159.5 | 4153.8 |
| 10°   | 4987.9  | 4901.1 | 4711.8 | 4494.0 | 4244.9 | 4004.3 | 3795.0 | 3631.3 | 3523.2 | 3446.3 | 3432.1 |
| 12.5° | 4852.7  | 4737.4 | 4459.8 | 4135.3 | 3793.6 | 3464.8 | 3150.2 | 2882.6 | 2689.0 | 2576.5 | 2556.6 |
| 15°   | 4726.0  | 4565.2 | 4185.1 | 3770.8 | 3326.7 | 2876.9 | 2431.3 | 2084.0 | 1812.1 | 1715.3 | 1692.5 |
| 17.5° | 4610.7  | 4410.0 | 3918.9 | 3393.6 | 2839.9 | 2252.0 | 1745.2 | 1436.3 | 1276.9 | 1228.5 | 1217.1 |
| 20°   | 4495.4  | 4250.6 | 3648.4 | 2996.5 | 2323.1 | 1664.1 | 1275.5 | 1130.3 | 1070.5 | 1052.0 | 1046.3 |
| 22.5° | 4371.6  | 4075.5 | 3353.8 | 2605.0 | 1800.7 | 1245.6 | 1043.4 | 979.4  | 960.9  | 962.3  | 960.9  |
| 25°   | 4247.7  | 3897.5 | 3044.9 | 2179.4 | 1340.9 | 1010.7 | 911.0  | 886.8  | 891.1  | 903.9  | 906.8  |
| 27.5° | 4145.2  | 3739.5 | 2741.7 | 1712.5 | 1047.7 | 869.8  | 822.8  | 821.4  | 837.0  | 854.1  | 856.9  |
| 30°   | 4071.2  | 3598.6 | 2442.7 | 1316.7 | 862.6  | 773.0  | 754.5  | 763.0  | 781.5  | 794.3  | 798.6  |
| 32.5° | 4018.5  | 3477.6 | 2123.9 | 1034.9 | 755.9  | 704.6  | 696.1  | 704.6  | 716.0  | 728.8  | 731.7  |
| 35°   | 4000.0  | 3389.4 | 1810.7 | 844.1  | 683.3  | 654.8  | 649.1  | 653.4  | 659.1  | 666.2  | 669.0  |
| 37.5° | 4041.3  | 3345.2 | 1483.3 | 734.5  | 639.2  | 622.1  | 613.5  | 610.7  | 612.1  | 615.0  | 616.4  |
| 40°   | 4163.7  | 3365.2 | 1215.7 | 670.5  | 610.7  | 595.0  | 580.8  | 575.1  | 573.7  | 576.5  | 575.1  |
| 42.5° | 4374.4  | 3449.1 | 1022.1 | 633.5  | 587.9  | 565.1  | 549.5  | 543.8  | 543.8  | 550.9  | 550.9  |
| 45°   | 4683.3  | 3614.3 | 882.6  | 606.4  | 568.0  | 539.5  | 522.4  | 519.6  | 525.3  | 536.7  | 538.1  |
| 47.5° | 5136.0  | 3856.3 | 798.6  | 586.5  | 549.5  | 516.7  | 499.6  | 498.2  | 509.6  | 528.1  | 529.5  |
| 50°   | 5672.6  | 4205.0 | 753.0  | 572.2  | 536.7  | 498.2  | 481.1  | 482.6  | 495.4  | 515.3  | 519.6  |
| 52.5° | 6318.9  | 4680.5 | 755.9  | 566.6  | 529.5  | 486.8  | 469.8  | 466.9  | 479.7  | 499.6  | 503.9  |
| 55°   | 6986.5  | 5258.4 | 811.4  | 568.0  | 519.6  | 481.1  | 458.4  | 448.4  | 459.8  | 474.0  | 475.4  |
| 57.5° | 7721.1  | 5910.4 | 949.5  | 565.1  | 506.8  | 475.4  | 448.4  | 425.6  | 432.7  | 441.3  | 445.6  |
| 60°   | 8549.5  | 6677.6 | 1247.0 | 570.8  | 501.1  | 462.6  | 428.5  | 398.6  | 397.2  | 402.9  | 404.3  |
| 62.5° | 9657.0  | 7721.1 | 1581.5 | 580.8  | 513.9  | 447.0  | 398.6  | 367.3  | 361.6  | 364.4  | 365.8  |
| 65°   | 10504.0 | 8219.3 | 1476.2 | 572.2  | 540.9  | 435.6  | 370.1  | 337.4  | 326.0  | 323.1  | 323.1  |
| 67.5° | 10159.5 | 7560.2 | 1027.8 | 549.5  | 553.7  | 437.0  | 347.3  | 306.1  | 291.8  | 284.7  | 283.3  |
| 70°   | 8644.9  | 6141.0 | 714.6  | 526.7  | 539.5  | 434.2  | 323.1  | 280.4  | 261.9  | 252.0  | 250.5  |
| 72.5° | 6829.9  | 4689.0 | 577.9  | 481.1  | 489.7  | 391.5  | 287.5  | 252.0  | 236.3  | 223.5  | 223.5  |
| 75°   | 4395.8  | 2861.2 | 482.6  | 428.5  | 400.0  | 304.6  | 249.1  | 224.9  | 209.3  | 196.4  | 196.4  |
| 77.5° | 1479.0  | 1061.9 | 374.4  | 363.0  | 298.9  | 229.2  | 209.3  | 193.6  | 180.8  | 169.4  | 168.0  |
| 80°   | 600.7   | 503.9  | 274.7  | 274.7  | 209.3  | 175.1  | 163.7  | 156.6  | 148.0  | 133.8  | 133.8  |
| 82.5° | 348.8   | 306.1  | 192.2  | 166.5  | 139.5  | 121.0  | 113.9  | 106.8  | 106.8  | 96.8   | 96.8   |
| 85°   | 168.0   | 169.4  | 115.3  | 102.5  | 79.7   | 69.8   | 66.9   | 62.6   | 61.2   | 55.5   | 54.1   |
| 87.5° | 91.1    | 92.5   | 58.4   | 45.6   | 31.3   | 27.0   | 22.8   | 21.4   | 19.9   | 18.5   | 18.5   |
| 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)