

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: P640333

Luminaire Tested: GWS-SA5D-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27495.6 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

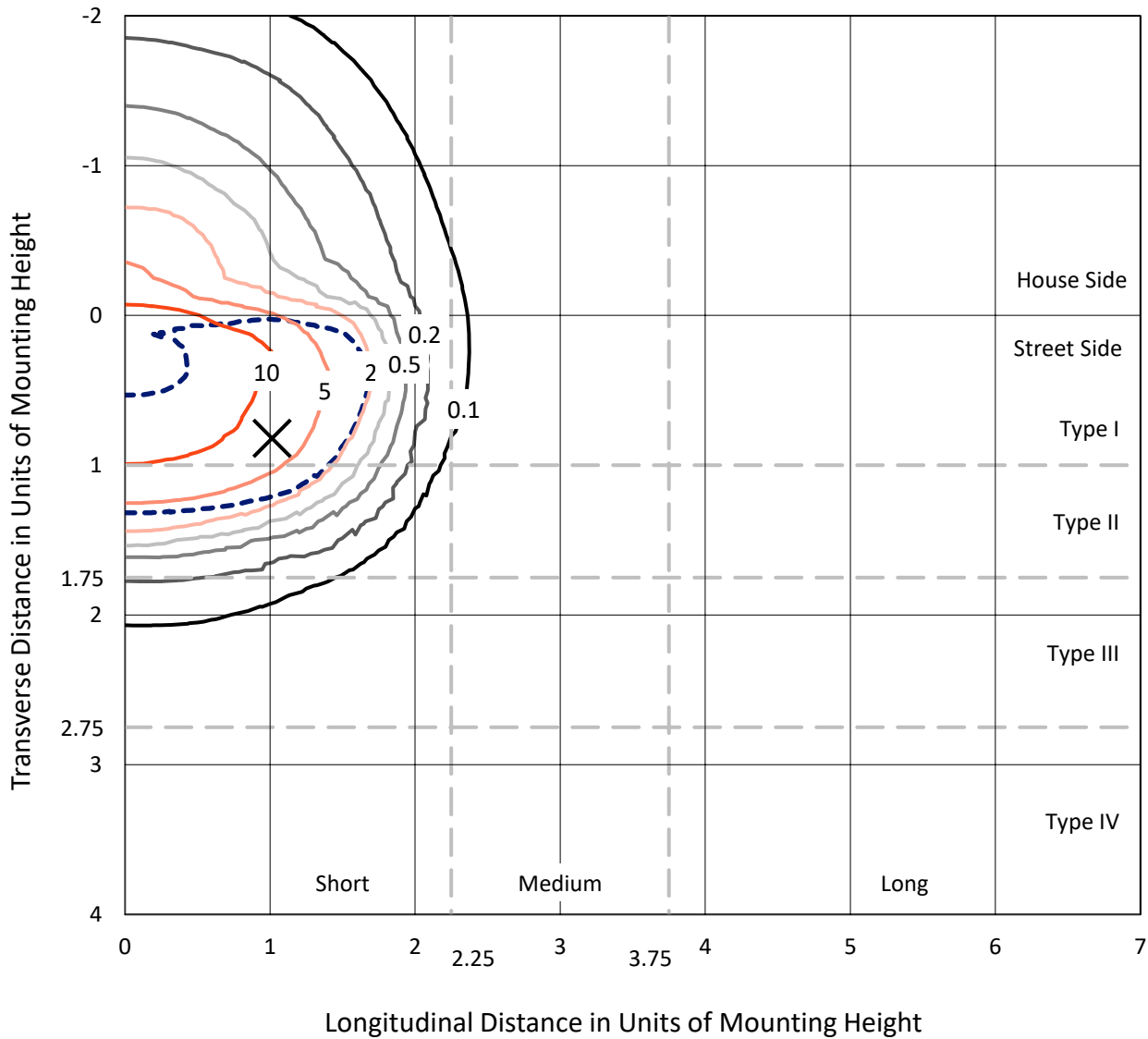
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

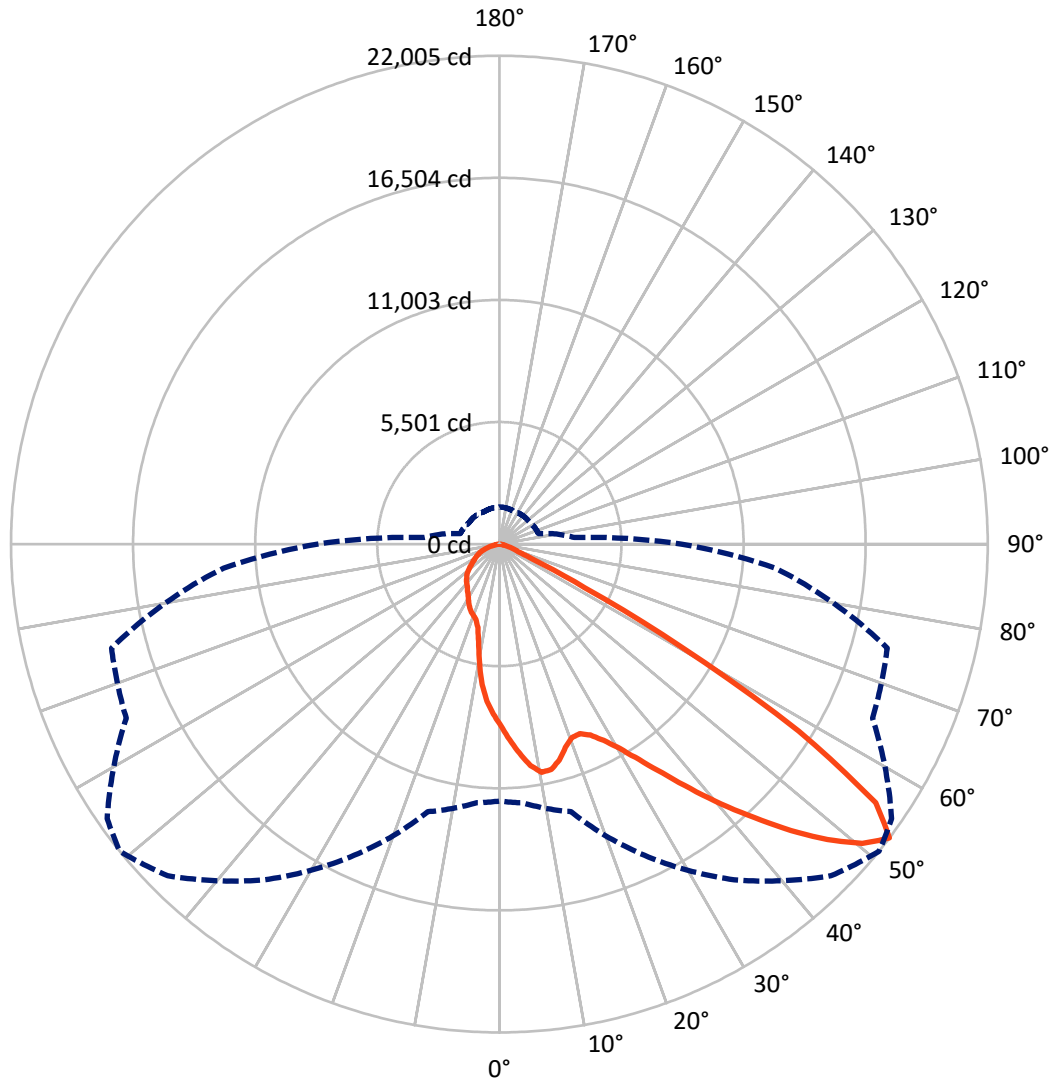
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5357.3 | 0.0 | 5357.3 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 22138.3 | 0.0 | 22138.3 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 27495.6 | 0.0 | 27495.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 763.9 | 2.8 |
| 10°-20° | 1985.0 | 7.2 |
| 20°-30° | 3227.5 | 11.7 |
| 30°-40° | 5114.9 | 18.6 |
| 40°-50° | 7714.3 | 28.1 |
| 50°-60° | 6673.5 | 24.3 |
| 60°-70° | 1512.9 | 5.5 |
| 70°-80° | 446.1 | 1.6 |
| 80°-90° | 57.5 | 0.2 |
| 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° | 27495.6 | 100.0 |
| 0°-180° | 27495.6 | 100.0 |

Coefficient of Utilization



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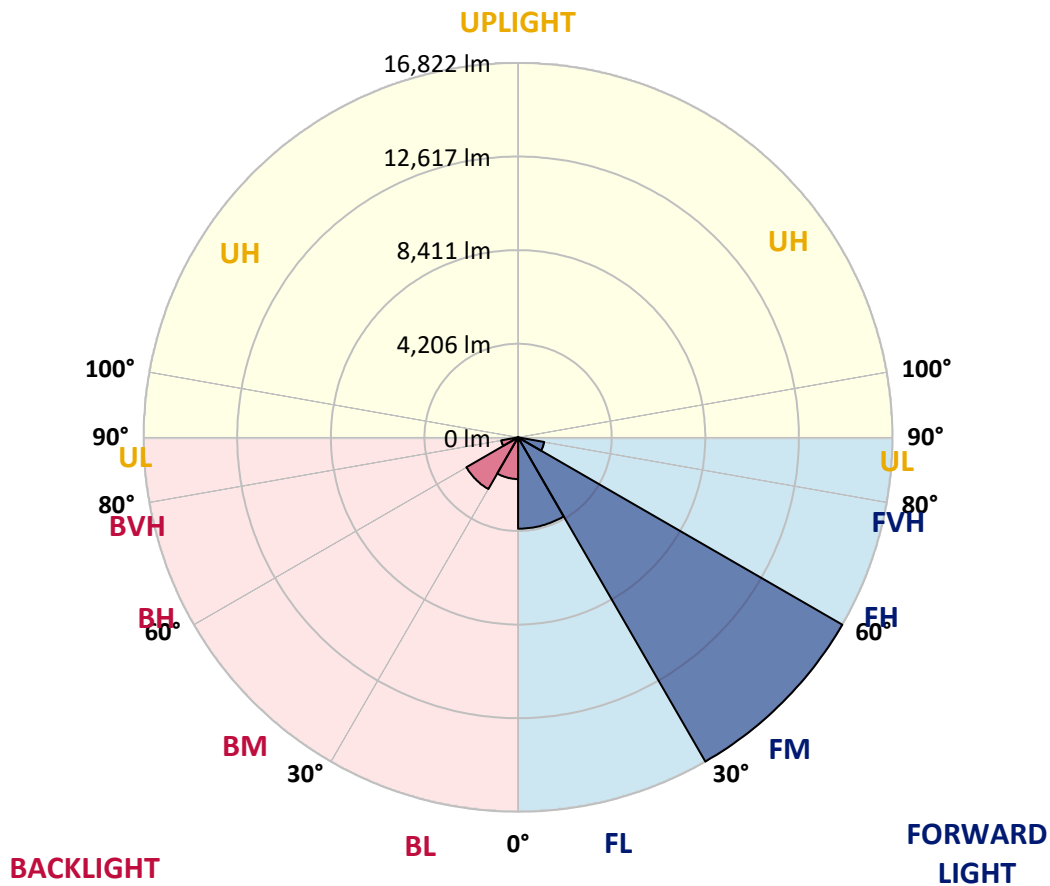
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4103.8 | 14.9 | | | |
| FM (30°-60°) | 16822.2 | 61.2 | | | |
| FH (60°-80°) | 1190.7 | 4.3 | | | G1/1800 |
| FVH (80°-90°) | 21.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1872.7 | 6.8 | B3/2500 | | |
| BM (30°-60°) | 2680.4 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 768.4 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 35.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 51° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 |
| 2.5° | 9123.3 | 9175.4 | 9095.0 | 9064.6 | 9014.6 | 8927.7 | 8827.8 | 8799.5 | 8584.4 | 8443.2 | 8284.6 |
| 5° | 10040.1 | 10068.4 | 10003.2 | 9938.0 | 9814.2 | 9659.9 | 9466.5 | 9425.3 | 9034.2 | 8710.4 | 8373.7 |
| 7.5° | 10244.4 | 10233.5 | 10290.0 | 10326.9 | 10311.7 | 10250.9 | 10079.3 | 9998.9 | 9531.7 | 9019.0 | 8521.4 |
| 10° | 9436.1 | 9375.3 | 9583.9 | 9831.6 | 10129.2 | 10472.5 | 10453.0 | 10446.4 | 10040.1 | 9434.0 | 8710.4 |
| 12.5° | 8365.0 | 8334.6 | 8504.0 | 8814.7 | 9377.5 | 10137.9 | 10422.5 | 10644.2 | 10498.6 | 9829.4 | 8921.2 |
| 15° | 7752.3 | 7741.4 | 7856.6 | 8080.3 | 8527.9 | 9488.3 | 10096.6 | 10535.5 | 10891.8 | 10253.1 | 9145.0 |
| 17.5° | 7641.5 | 7648.0 | 7687.1 | 7815.3 | 8136.8 | 8927.7 | 9631.7 | 10244.4 | 11198.2 | 10718.0 | 9425.3 |
| 20° | 7965.2 | 8008.6 | 7941.3 | 7960.8 | 8134.7 | 8725.6 | 9314.5 | 9951.1 | 11393.7 | 11185.2 | 9727.3 |
| 22.5° | 8684.4 | 8669.2 | 8521.4 | 8434.5 | 8436.7 | 8849.5 | 9279.7 | 9814.2 | 11521.9 | 11639.3 | 10001.0 |
| 25° | 9499.1 | 9481.8 | 9305.8 | 9112.4 | 8990.7 | 9186.3 | 9529.6 | 9959.8 | 11637.1 | 12054.3 | 10220.5 |
| 27.5° | 10461.7 | 10407.3 | 10211.8 | 9964.1 | 9694.7 | 9779.4 | 10011.9 | 10353.0 | 11815.3 | 12462.7 | 10366.1 |
| 30° | 11393.7 | 11456.8 | 11176.5 | 10883.2 | 10598.5 | 10546.4 | 10681.1 | 10989.6 | 12178.1 | 12940.7 | 10539.9 |
| 32.5° | 12630.0 | 12608.3 | 12297.6 | 11915.2 | 11508.9 | 11469.8 | 11576.3 | 11858.7 | 12829.9 | 13601.2 | 10804.9 |
| 35° | 14127.0 | 14131.4 | 13690.3 | 13173.2 | 12595.3 | 12491.0 | 12669.1 | 12942.9 | 13801.1 | 14496.4 | 11224.3 |
| 37.5° | 15682.7 | 15676.2 | 15291.6 | 14705.0 | 13916.3 | 13768.5 | 13972.8 | 14177.0 | 15015.7 | 15715.3 | 11876.1 |
| 40° | 16773.4 | 16816.9 | 16636.5 | 16328.0 | 15580.6 | 15219.9 | 15400.2 | 15541.5 | 16336.7 | 17149.3 | 12734.3 |
| 42.5° | 17392.6 | 17457.8 | 17496.9 | 17681.6 | 17288.3 | 16903.8 | 16838.6 | 16912.5 | 17516.5 | 18481.2 | 13540.4 |
| 45° | 17525.2 | 17612.1 | 17896.7 | 18581.1 | 18733.2 | 18624.6 | 18411.6 | 18233.5 | 18396.4 | 19426.3 | 14068.4 |
| 47.5° | 16940.7 | 17092.8 | 17701.2 | 18898.3 | 19787.0 | 20128.1 | 19891.3 | 19619.7 | 18904.8 | 19669.6 | 14014.0 |
| 50° | 14624.6 | 14802.7 | 16173.7 | 18250.9 | 19936.9 | 21179.7 | 21201.4 | 20799.5 | 18844.0 | 18967.9 | 13331.8 |
| 52.5° | 11578.4 | 11700.1 | 12484.5 | 15471.9 | 18466.0 | 21136.2 | 22005.3 | 21575.1 | 18550.7 | 18090.1 | 12477.9 |
| 55° | 6920.1 | 7115.7 | 7847.9 | 10207.4 | 14385.6 | 18733.2 | 20584.4 | 20792.9 | 18407.3 | 17353.5 | 11895.6 |
| 57.5° | 2335.7 | 2431.3 | 3130.9 | 4508.4 | 8478.0 | 13716.4 | 15904.3 | 16751.7 | 16710.4 | 16228.1 | 10759.3 |
| 60° | 1112.4 | 1134.2 | 1275.4 | 1709.9 | 3393.8 | 7167.8 | 9414.4 | 10392.1 | 11282.9 | 11372.0 | 6694.2 |
| 62.5° | 847.4 | 860.4 | 932.1 | 1025.5 | 1364.5 | 3020.1 | 4315.0 | 5062.4 | 5407.9 | 4640.9 | 2437.8 |
| 65° | 708.3 | 719.2 | 773.5 | 832.2 | 927.8 | 1308.0 | 1655.6 | 1909.8 | 1720.8 | 1340.6 | 1162.4 |
| 67.5° | 591.0 | 599.7 | 641.0 | 704.0 | 769.1 | 875.6 | 919.1 | 945.1 | 990.8 | 1112.4 | 1069.0 |
| 70° | 462.8 | 471.5 | 514.9 | 569.3 | 632.3 | 658.3 | 699.6 | 725.7 | 816.9 | 973.4 | 969.0 |
| 72.5° | 356.3 | 367.2 | 391.1 | 425.9 | 478.0 | 504.1 | 549.7 | 580.1 | 632.3 | 758.3 | 810.4 |
| 75° | 260.7 | 267.2 | 289.0 | 299.8 | 306.4 | 299.8 | 345.5 | 380.2 | 449.8 | 497.6 | 510.6 |
| 77.5° | 106.5 | 119.5 | 115.2 | 115.2 | 136.9 | 165.1 | 189.0 | 210.8 | 258.6 | 286.8 | 289.0 |
| 80° | 43.5 | 47.8 | 56.5 | 63.0 | 76.0 | 97.8 | 113.0 | 121.7 | 143.4 | 160.8 | 173.8 |
| 82.5° | 26.1 | 28.2 | 32.6 | 34.8 | 43.5 | 56.5 | 65.2 | 71.7 | 89.1 | 106.5 | 113.0 |
| 85° | 13.0 | 13.0 | 15.2 | 17.4 | 21.7 | 26.1 | 30.4 | 34.8 | 45.6 | 56.5 | 63.0 |
| 87.5° | 2.2 | 2.2 | 2.2 | 4.3 | 6.5 | 8.7 | 10.9 | 13.0 | 15.2 | 17.4 | 21.7 |
| 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° | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 | 8186.8 |
| 2.5° | 8191.2 | 8073.8 | 7936.9 | 7828.3 | 7702.3 | 7608.9 | 7476.3 | 7393.8 | 7315.6 | 7250.4 | 7202.6 |
| 5° | 8199.8 | 8002.1 | 7717.5 | 7465.5 | 7204.7 | 6957.1 | 6702.8 | 6496.4 | 6311.8 | 6157.5 | 6144.5 |
| 7.5° | 8249.8 | 7965.2 | 7519.8 | 7078.7 | 6570.3 | 6079.3 | 5588.2 | 5188.5 | 4884.3 | 4725.7 | 4693.1 |
| 10° | 8334.6 | 7960.8 | 7317.7 | 6613.8 | 5746.8 | 4956.0 | 4373.7 | 4069.5 | 3893.5 | 3830.5 | 3808.8 |
| 12.5° | 8423.6 | 7950.0 | 7059.2 | 5957.6 | 4753.9 | 4060.8 | 3741.4 | 3704.5 | 3737.1 | 3741.4 | 3739.3 |
| 15° | 8532.3 | 7943.5 | 6733.3 | 5188.5 | 4028.2 | 3645.8 | 3667.6 | 3745.8 | 3821.8 | 3839.2 | 3839.2 |
| 17.5° | 8664.8 | 7928.3 | 6290.0 | 4436.7 | 3574.1 | 3565.4 | 3680.6 | 3784.9 | 3856.6 | 3869.6 | 3869.6 |
| 20° | 8803.9 | 7889.1 | 5744.7 | 3824.0 | 3389.4 | 3515.5 | 3639.3 | 3719.7 | 3769.7 | 3787.1 | 3789.2 |
| 22.5° | 8899.5 | 7784.9 | 5116.8 | 3369.9 | 3274.3 | 3419.9 | 3508.9 | 3591.5 | 3591.5 | 3548.1 | 3535.0 |
| 25° | 8919.0 | 7561.1 | 4436.7 | 3059.2 | 3137.4 | 3272.1 | 3363.4 | 3315.6 | 3226.5 | 3191.7 | 3189.6 |
| 27.5° | 8847.3 | 7235.2 | 3765.3 | 2837.6 | 2972.3 | 3107.0 | 3091.8 | 3022.3 | 2983.1 | 2948.4 | 2961.4 |
| 30° | 8760.4 | 6844.1 | 3183.0 | 2655.1 | 2781.1 | 2913.6 | 2861.5 | 2837.6 | 2809.3 | 2770.2 | 2778.9 |
| 32.5° | 8701.7 | 6407.4 | 2735.5 | 2513.8 | 2652.9 | 2674.6 | 2711.6 | 2709.4 | 2683.3 | 2609.4 | 2605.1 |
| 35° | 8719.1 | 5966.3 | 2435.6 | 2398.7 | 2546.4 | 2537.7 | 2607.3 | 2594.2 | 2413.9 | 2311.8 | 2305.3 |
| 37.5° | 8858.2 | 5542.6 | 2259.6 | 2307.4 | 2377.0 | 2431.3 | 2492.1 | 2335.7 | 2272.7 | 2207.5 | 2211.8 |
| 40° | 9123.3 | 5149.3 | 2164.0 | 2257.5 | 2274.8 | 2355.2 | 2214.0 | 2211.8 | 2183.6 | 2124.9 | 2122.7 |
| 42.5° | 9423.1 | 4816.9 | 2098.8 | 2233.6 | 2209.7 | 2224.9 | 2074.9 | 2092.3 | 2090.2 | 2053.2 | 2042.4 |
| 45° | 9605.6 | 4510.6 | 2046.7 | 2144.5 | 2151.0 | 1998.9 | 1953.3 | 1972.8 | 1983.7 | 1964.1 | 1962.0 |
| 47.5° | 9416.6 | 4158.6 | 1992.4 | 2007.6 | 2064.1 | 1896.8 | 1840.3 | 1842.5 | 1862.0 | 1864.2 | 1855.5 |
| 50° | 8886.4 | 3765.3 | 1927.2 | 1890.3 | 1853.3 | 1790.3 | 1738.2 | 1727.3 | 1746.9 | 1766.4 | 1772.9 |
| 52.5° | 8202.0 | 3389.4 | 1818.6 | 1762.1 | 1675.2 | 1675.2 | 1651.3 | 1616.5 | 1642.6 | 1668.6 | 1677.3 |
| 55° | 7700.1 | 3111.3 | 1664.3 | 1601.3 | 1505.7 | 1538.3 | 1533.9 | 1503.5 | 1538.3 | 1557.8 | 1564.4 |
| 57.5° | 6672.4 | 2500.8 | 1464.4 | 1444.9 | 1364.5 | 1403.6 | 1412.3 | 1373.2 | 1355.8 | 1360.1 | 1366.6 |
| 60° | 3960.9 | 1614.3 | 1321.0 | 1318.8 | 1247.1 | 1292.8 | 1318.8 | 1279.7 | 1227.6 | 1234.1 | 1242.8 |
| 62.5° | 1777.3 | 1234.1 | 1140.7 | 1132.0 | 1129.8 | 1188.5 | 1216.7 | 1179.8 | 1105.9 | 1112.4 | 1121.1 |
| 65° | 1119.0 | 1066.8 | 990.8 | 990.8 | 1025.5 | 1075.5 | 1097.2 | 1066.8 | 982.1 | 971.2 | 979.9 |
| 67.5° | 1038.6 | 992.9 | 914.7 | 899.5 | 916.9 | 958.2 | 960.3 | 901.7 | 851.7 | 843.0 | 843.0 |
| 70° | 932.1 | 897.3 | 821.3 | 790.9 | 784.4 | 782.2 | 775.7 | 760.5 | 727.9 | 719.2 | 723.5 |
| 72.5° | 771.3 | 747.4 | 699.6 | 667.0 | 649.6 | 647.5 | 621.4 | 608.4 | 580.1 | 575.8 | 573.6 |
| 75° | 510.6 | 517.1 | 517.1 | 512.8 | 497.6 | 491.0 | 462.8 | 449.8 | 417.2 | 404.1 | 402.0 |
| 77.5° | 302.0 | 308.5 | 317.2 | 319.4 | 317.2 | 317.2 | 291.1 | 275.9 | 243.3 | 226.0 | 221.6 |
| 80° | 184.7 | 189.0 | 193.4 | 199.9 | 191.2 | 184.7 | 160.8 | 145.6 | 130.4 | 119.5 | 117.3 |
| 82.5° | 119.5 | 123.8 | 126.0 | 130.4 | 126.0 | 117.3 | 97.8 | 89.1 | 78.2 | 69.5 | 67.4 |
| 85° | 67.4 | 69.5 | 73.9 | 73.9 | 67.4 | 60.8 | 50.0 | 43.5 | 36.9 | 32.6 | 32.6 |
| 87.5° | 23.9 | 23.9 | 23.9 | 26.1 | 21.7 | 19.6 | 13.0 | 8.7 | 6.5 | 6.5 | 6.5 |
| 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)