

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: P642516

Luminaire Tested: GWS-SA6D-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23133.6 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

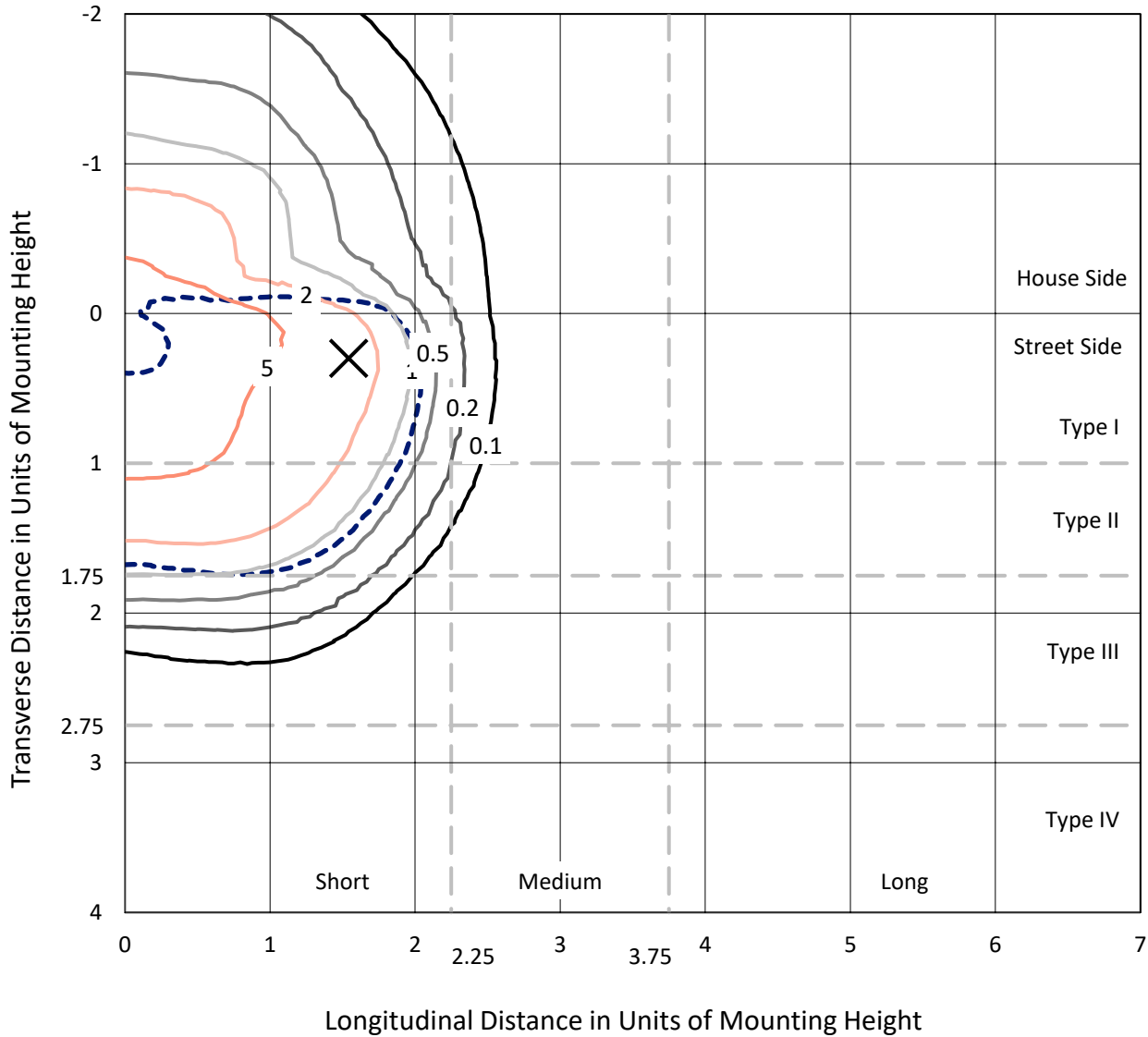
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

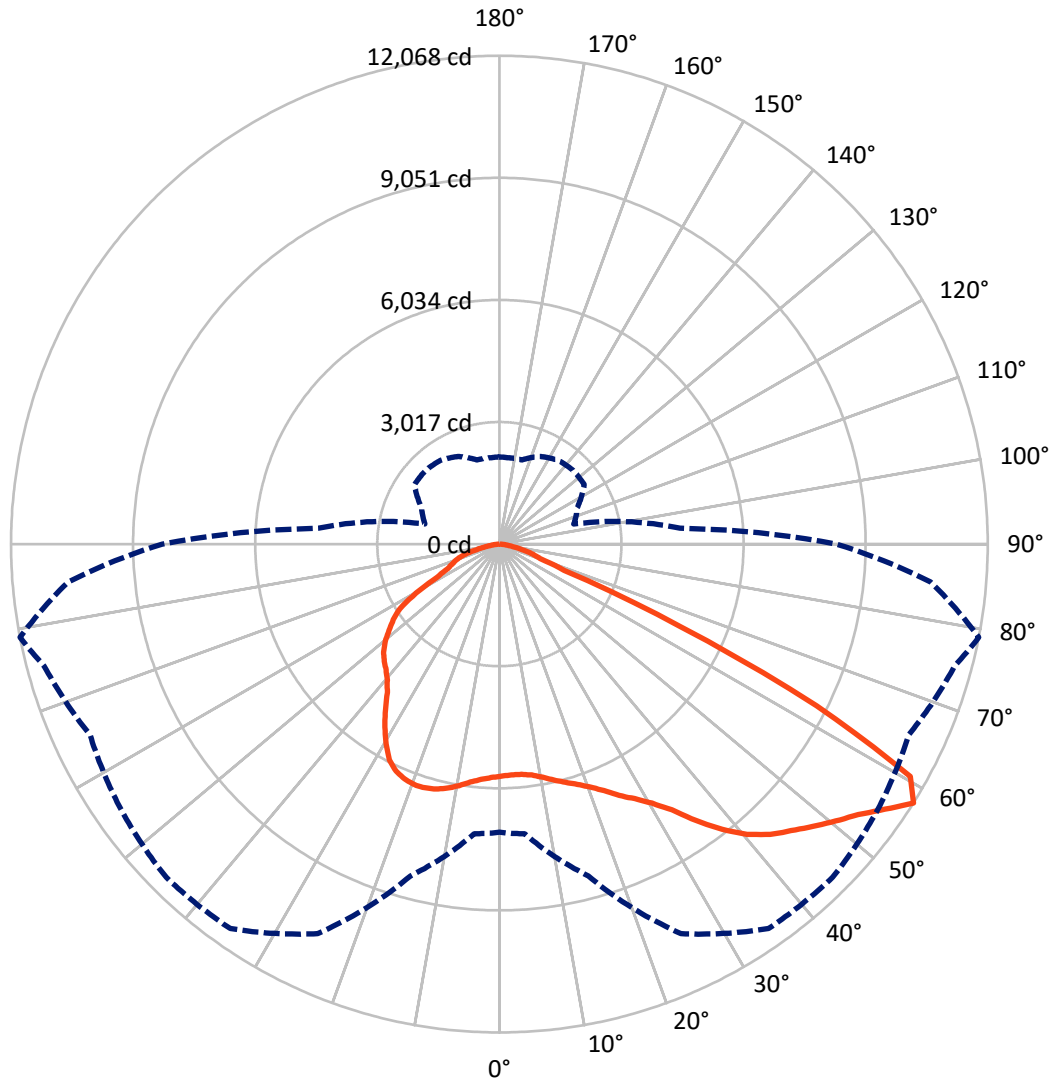
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6876.5 | 0.0 | 6876.5 |
| | % Fixture | 29.7 | 0.0 | 29.7 |
| Street Side | Lumens | 16257.1 | 0.0 | 16257.1 |
| | % Fixture | 70.3 | 0.0 | 70.3 |
| Total | Lumens | 23133.6 | 0.0 | 23133.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 530.9 | 2.3 |
| 10°-20° | 1475.4 | 6.4 |
| 20°-30° | 2501.0 | 10.8 |
| 30°-40° | 3828.0 | 16.5 |
| 40°-50° | 5104.3 | 22.1 |
| 50°-60° | 5895.1 | 25.5 |
| 60°-70° | 3063.3 | 13.2 |
| 70°-80° | 651.2 | 2.8 |
| 80°-90° | 84.3 | 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° | 23133.6 | 100.0 |
| 0°-180° | 23133.6 | 100.0 |

Coefficient of Utilization



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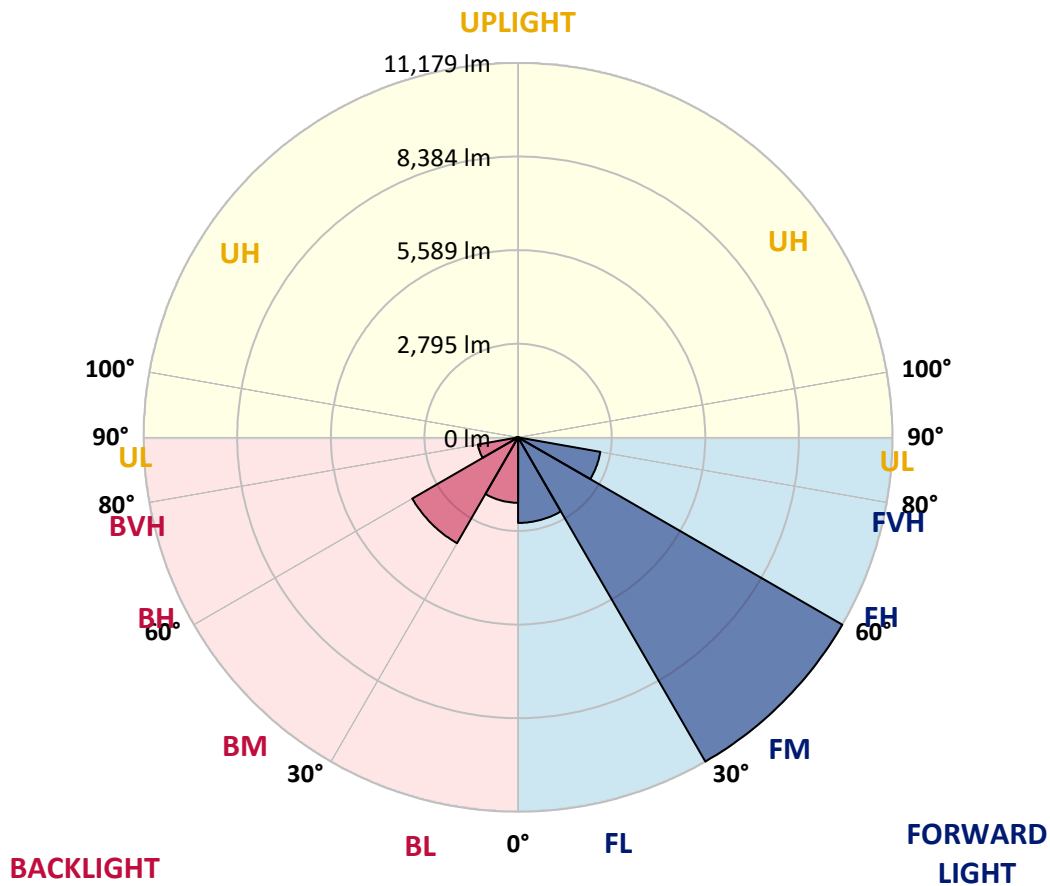
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2554.5 | 11.0 | | | |
| FM (30°-60°) | 11178.8 | 48.3 | | | |
| FH (60°-80°) | 2494.4 | 10.8 | | | G2/5000 |
| FVH (80°-90°) | 29.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1952.9 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 3648.6 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1220.1 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 54.9 | 0.2 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 |
| 2.5° | 5472.0 | 5460.7 | 5464.5 | 5479.6 | 5536.3 | 5577.9 | 5621.4 | 5661.2 | 5699.0 | 5710.3 | 5719.8 |
| 5° | 5277.2 | 5256.4 | 5262.1 | 5286.7 | 5352.9 | 5422.8 | 5500.4 | 5595.0 | 5685.8 | 5716.0 | 5755.7 |
| 7.5° | 5139.1 | 5135.3 | 5144.8 | 5182.6 | 5252.6 | 5318.8 | 5419.1 | 5553.4 | 5710.3 | 5761.4 | 5831.4 |
| 10° | 4955.6 | 4948.1 | 4985.9 | 5063.5 | 5178.8 | 5284.8 | 5403.9 | 5562.8 | 5782.2 | 5857.9 | 5965.7 |
| 12.5° | 4810.0 | 4806.2 | 4845.9 | 4953.8 | 5101.3 | 5269.6 | 5434.2 | 5612.0 | 5878.7 | 5982.7 | 6115.1 |
| 15° | 4895.1 | 4878.1 | 4880.0 | 4955.6 | 5088.1 | 5286.7 | 5509.8 | 5700.9 | 5975.1 | 6107.6 | 6277.8 |
| 17.5° | 5142.9 | 5112.6 | 5089.9 | 5103.2 | 5178.8 | 5385.0 | 5625.2 | 5820.0 | 6086.7 | 6241.8 | 6449.9 |
| 20° | 5485.3 | 5468.2 | 5405.8 | 5364.2 | 5381.2 | 5562.8 | 5806.8 | 5988.4 | 6232.4 | 6406.4 | 6629.6 |
| 22.5° | 5944.9 | 5903.3 | 5818.2 | 5752.0 | 5700.9 | 5842.7 | 6067.8 | 6224.8 | 6434.8 | 6616.4 | 6849.0 |
| 25° | 6514.2 | 6453.7 | 6319.4 | 6215.4 | 6105.7 | 6251.3 | 6451.8 | 6571.0 | 6712.8 | 6881.2 | 7102.5 |
| 27.5° | 7094.9 | 7043.8 | 6894.4 | 6754.4 | 6618.2 | 6709.0 | 6947.4 | 7015.5 | 7000.3 | 7123.3 | 7312.4 |
| 30° | 7713.4 | 7649.1 | 7507.2 | 7355.9 | 7180.0 | 7238.6 | 7452.4 | 7486.4 | 7325.7 | 7427.8 | 7556.4 |
| 32.5° | 8366.0 | 8303.5 | 8180.6 | 8004.7 | 7806.1 | 7828.8 | 7887.4 | 7919.6 | 7766.4 | 7825.0 | 7923.4 |
| 35° | 9029.9 | 8971.2 | 8846.4 | 8672.4 | 8526.7 | 8388.7 | 8241.1 | 8369.7 | 8280.8 | 8394.3 | 8386.8 |
| 37.5° | 9637.0 | 9578.4 | 9500.8 | 9366.6 | 9116.9 | 8844.5 | 8504.0 | 8662.9 | 8801.0 | 8944.8 | 8920.2 |
| 40° | 10047.5 | 10007.8 | 10026.7 | 10005.9 | 9684.3 | 9145.3 | 8632.7 | 8806.7 | 9183.1 | 9429.0 | 9415.7 |
| 42.5° | 10401.2 | 10361.5 | 10471.2 | 10550.6 | 10172.3 | 9423.3 | 8695.1 | 8861.5 | 9427.1 | 9811.0 | 9792.1 |
| 45° | 10558.2 | 10546.8 | 10728.4 | 10980.0 | 10618.7 | 9718.4 | 8855.9 | 8975.0 | 9612.4 | 10104.2 | 10032.3 |
| 47.5° | 10370.9 | 10410.6 | 10768.1 | 11193.7 | 10989.4 | 10068.3 | 9185.0 | 9215.2 | 9854.6 | 10422.0 | 10219.6 |
| 50° | 9998.3 | 10085.3 | 10567.6 | 11199.4 | 11259.9 | 10463.6 | 9640.8 | 9565.2 | 10179.9 | 10760.6 | 10318.0 |
| 52.5° | 9455.5 | 9546.2 | 10333.1 | 11155.9 | 11415.0 | 10921.3 | 10248.0 | 10140.2 | 10590.3 | 11099.1 | 10335.0 |
| 55° | 8209.0 | 8331.9 | 9795.9 | 11057.5 | 11566.3 | 11337.5 | 10932.7 | 10713.3 | 11119.9 | 11564.4 | 10503.3 |
| 57.5° | 7121.4 | 7185.7 | 8487.0 | 10620.6 | 11596.6 | 11643.9 | 11420.7 | 11159.7 | 11645.8 | 12067.6 | 10692.5 |
| 60° | 5226.1 | 5241.3 | 6412.1 | 8787.8 | 10667.9 | 11466.1 | 11381.0 | 10993.2 | 11396.1 | 11664.7 | 9826.2 |
| 62.5° | 2952.6 | 2954.5 | 3888.9 | 5865.4 | 7968.8 | 9345.7 | 9398.7 | 9056.4 | 8717.8 | 8797.2 | 6839.5 |
| 65° | 1108.4 | 1212.4 | 1776.1 | 2882.6 | 4594.4 | 5517.4 | 5736.8 | 5816.3 | 5252.6 | 4902.7 | 3667.6 |
| 67.5° | 741.5 | 766.0 | 1036.5 | 1482.9 | 2044.7 | 2360.6 | 2640.5 | 2648.1 | 1936.9 | 1726.9 | 1445.1 |
| 70° | 565.5 | 590.1 | 815.2 | 1061.1 | 1036.5 | 957.1 | 1034.6 | 1006.3 | 1040.3 | 1068.7 | 1098.9 |
| 72.5° | 421.8 | 446.4 | 631.8 | 749.0 | 622.3 | 612.8 | 694.2 | 771.7 | 843.6 | 873.9 | 921.1 |
| 75° | 279.9 | 298.9 | 425.6 | 401.0 | 344.2 | 406.7 | 506.9 | 584.5 | 626.1 | 662.0 | 698.0 |
| 77.5° | 177.8 | 191.0 | 227.0 | 183.5 | 191.0 | 238.3 | 295.1 | 365.1 | 404.8 | 440.7 | 459.6 |
| 80° | 81.3 | 79.4 | 77.6 | 87.0 | 107.8 | 140.0 | 177.8 | 219.4 | 249.7 | 264.8 | 276.2 |
| 82.5° | 32.2 | 35.9 | 39.7 | 47.3 | 58.6 | 75.7 | 100.2 | 128.6 | 153.2 | 157.0 | 166.4 |
| 85° | 13.2 | 15.1 | 17.0 | 20.8 | 26.5 | 34.0 | 41.6 | 58.6 | 73.8 | 79.4 | 85.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 3.8 | 5.7 | 9.5 | 17.0 | 18.9 | 20.8 |
| 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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CATALOG NUMBER: GWS-SA6D-722-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 | 5733.0 |
| 2.5° | 5770.9 | 5746.3 | 5787.9 | 5816.3 | 5842.7 | 5814.4 | 5804.9 | 5780.3 | 5776.5 | 5776.5 | 5789.8 |
| 5° | 5823.8 | 5806.8 | 5850.3 | 5867.3 | 5865.4 | 5803.0 | 5765.2 | 5716.0 | 5691.4 | 5691.4 | 5695.2 |
| 7.5° | 5918.4 | 5908.9 | 5933.5 | 5907.1 | 5846.5 | 5719.8 | 5595.0 | 5490.9 | 5420.9 | 5385.0 | 5396.4 |
| 10° | 6075.4 | 6064.0 | 6043.2 | 5944.9 | 5770.9 | 5508.0 | 5252.6 | 5063.5 | 4950.0 | 4885.7 | 4889.4 |
| 12.5° | 6228.6 | 6209.7 | 6135.9 | 5918.4 | 5560.9 | 5142.9 | 4808.1 | 4596.3 | 4471.4 | 4395.8 | 4378.7 |
| 15° | 6396.9 | 6347.8 | 6188.9 | 5782.2 | 5218.6 | 4696.5 | 4346.6 | 4117.7 | 3983.4 | 3938.0 | 3936.1 |
| 17.5° | 6557.7 | 6470.7 | 6183.2 | 5540.1 | 4808.1 | 4229.3 | 3877.5 | 3735.7 | 3713.0 | 3733.8 | 3739.4 |
| 20° | 6720.4 | 6580.4 | 6120.8 | 5205.3 | 4320.1 | 3764.0 | 3582.4 | 3641.1 | 3726.2 | 3782.9 | 3796.2 |
| 22.5° | 6888.7 | 6671.2 | 5978.9 | 4774.1 | 3805.6 | 3450.0 | 3525.7 | 3654.3 | 3760.2 | 3835.9 | 3843.5 |
| 25° | 7077.9 | 6756.3 | 5767.1 | 4246.3 | 3393.3 | 3363.0 | 3512.5 | 3648.6 | 3762.1 | 3849.1 | 3864.3 |
| 27.5° | 7185.7 | 6758.2 | 5470.1 | 3703.5 | 3204.1 | 3329.0 | 3480.3 | 3608.9 | 3722.4 | 3817.0 | 3834.0 |
| 30° | 7291.6 | 6707.1 | 4999.2 | 3262.8 | 3149.3 | 3289.3 | 3425.4 | 3544.6 | 3652.4 | 3745.1 | 3765.9 |
| 32.5° | 7441.0 | 6659.9 | 4456.3 | 3009.3 | 3117.1 | 3251.4 | 3363.0 | 3469.0 | 3552.2 | 3593.8 | 3605.1 |
| 35° | 7626.4 | 6599.3 | 3879.4 | 2899.6 | 3096.3 | 3221.2 | 3319.5 | 3376.3 | 3268.5 | 3245.8 | 3270.3 |
| 37.5° | 7885.5 | 6542.6 | 3304.4 | 2852.3 | 3083.1 | 3209.8 | 3296.8 | 3151.2 | 3018.8 | 2965.8 | 2984.7 |
| 40° | 8165.5 | 6510.4 | 2914.8 | 2814.5 | 3088.8 | 3221.2 | 3202.3 | 2986.6 | 2795.6 | 2684.0 | 2680.2 |
| 42.5° | 8403.8 | 6461.3 | 2665.1 | 2789.9 | 3103.9 | 3264.7 | 3073.6 | 2841.0 | 2557.3 | 2491.1 | 2493.0 |
| 45° | 8564.6 | 6336.4 | 2532.7 | 2763.4 | 3117.1 | 3274.1 | 3013.1 | 2640.5 | 2438.1 | 2396.5 | 2394.6 |
| 47.5° | 8630.8 | 6109.4 | 2447.6 | 2721.8 | 3115.2 | 3196.6 | 2890.2 | 2557.3 | 2354.9 | 2343.5 | 2351.1 |
| 50° | 8587.3 | 5736.8 | 2360.6 | 2640.5 | 3069.9 | 3115.2 | 2748.3 | 2483.5 | 2298.1 | 2360.6 | 2405.9 |
| 52.5° | 8426.5 | 5254.5 | 2256.5 | 2528.9 | 2988.5 | 3022.6 | 2676.4 | 2438.1 | 2256.5 | 2339.7 | 2375.7 |
| 55° | 8384.9 | 4863.0 | 2124.1 | 2383.3 | 2867.5 | 2858.0 | 2600.8 | 2415.4 | 2228.1 | 2196.0 | 2201.7 |
| 57.5° | 8330.0 | 4480.9 | 1904.7 | 2122.2 | 2561.0 | 2576.2 | 2528.9 | 2388.9 | 2154.4 | 2144.9 | 2154.4 |
| 60° | 7236.8 | 3434.9 | 1698.5 | 1830.9 | 2103.3 | 2184.6 | 2447.6 | 2339.7 | 2035.2 | 1995.5 | 1993.6 |
| 62.5° | 4726.8 | 2080.6 | 1511.3 | 1596.4 | 1713.7 | 1808.2 | 2231.9 | 2197.9 | 1904.7 | 1880.1 | 1897.1 |
| 65° | 2542.1 | 1482.9 | 1375.1 | 1426.2 | 1490.5 | 1562.4 | 1849.9 | 1957.7 | 1721.2 | 1634.2 | 1636.1 |
| 67.5° | 1299.4 | 1261.6 | 1273.0 | 1308.9 | 1358.1 | 1394.0 | 1492.4 | 1586.9 | 1467.8 | 1394.0 | 1392.1 |
| 70° | 1112.2 | 1142.4 | 1159.5 | 1180.3 | 1212.4 | 1206.8 | 1216.2 | 1233.2 | 1223.8 | 1187.8 | 1186.0 |
| 72.5° | 947.6 | 994.9 | 998.7 | 1002.5 | 1013.8 | 987.3 | 970.3 | 942.0 | 943.8 | 949.5 | 951.4 |
| 75° | 720.6 | 766.0 | 777.4 | 771.7 | 783.1 | 749.0 | 726.3 | 698.0 | 663.9 | 658.2 | 662.0 |
| 77.5° | 469.1 | 505.0 | 522.0 | 518.3 | 523.9 | 497.5 | 486.1 | 455.8 | 416.1 | 401.0 | 401.0 |
| 80° | 283.7 | 304.5 | 317.8 | 321.5 | 327.2 | 308.3 | 289.4 | 262.9 | 245.9 | 228.9 | 228.9 |
| 82.5° | 172.1 | 185.4 | 194.8 | 194.8 | 200.5 | 179.7 | 164.6 | 145.6 | 138.1 | 122.9 | 122.9 |
| 85° | 87.0 | 96.5 | 100.2 | 98.4 | 94.6 | 77.6 | 71.9 | 62.4 | 58.6 | 51.1 | 51.1 |
| 87.5° | 20.8 | 26.5 | 26.5 | 18.9 | 18.9 | 9.5 | 5.7 | 1.9 | 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)