

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: P640505

Luminaire Tested: GWS-SA5E-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23551.8 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

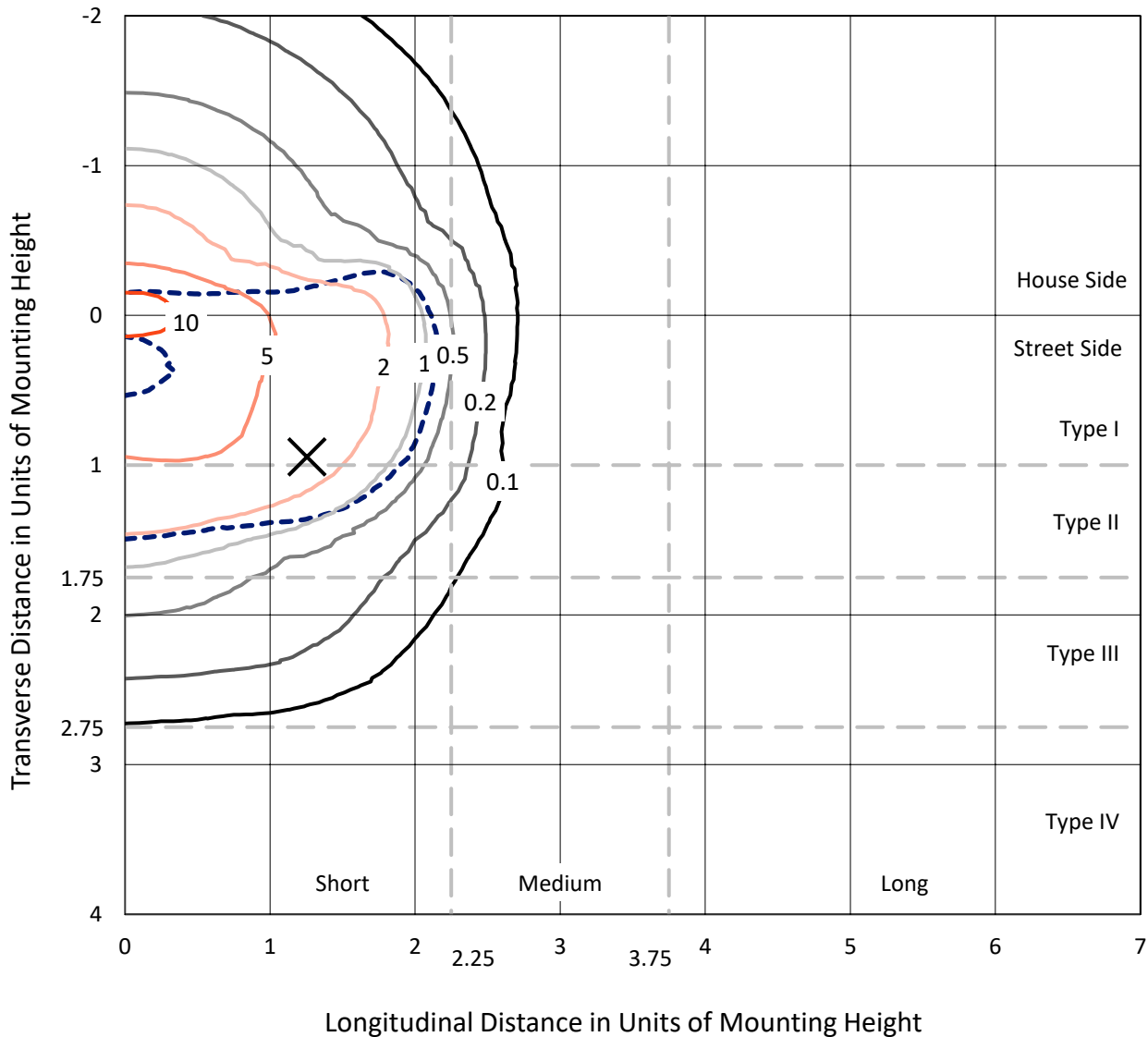
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

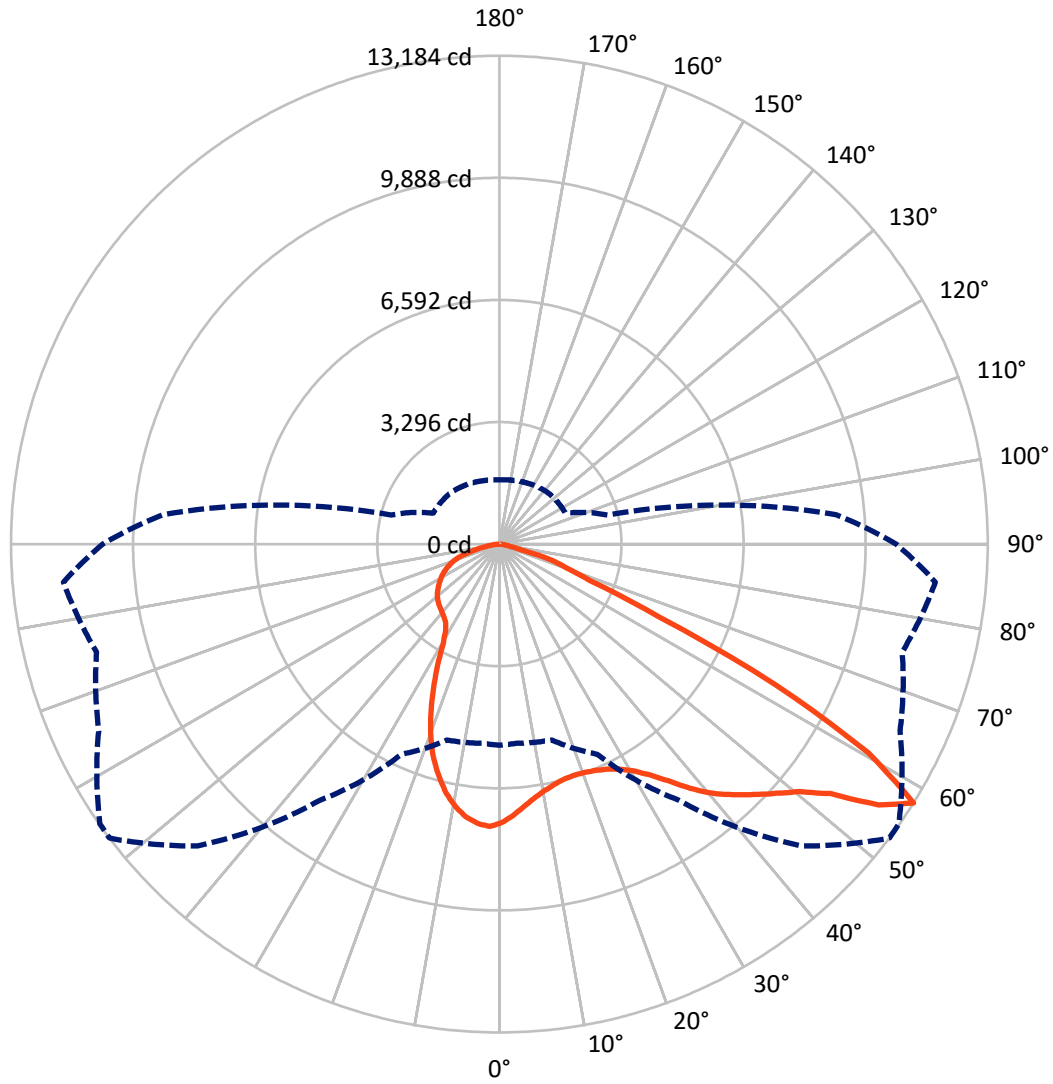
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7363.8 | 0.0 | 7363.8 |
| | % Fixture | 31.3 | 0.0 | 31.3 |
| Street Side | Lumens | 16188.0 | 0.0 | 16188.0 |
| | % Fixture | 68.7 | 0.0 | 68.7 |
| Total | Lumens | 23551.8 | 0.0 | 23551.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 680.1 | 2.9 |
| 10°-20° | 1784.3 | 7.6 |
| 20°-30° | 2628.9 | 11.2 |
| 30°-40° | 3679.7 | 15.6 |
| 40°-50° | 4837.2 | 20.5 |
| 50°-60° | 5671.7 | 24.1 |
| 60°-70° | 3341.2 | 14.2 |
| 70°-80° | 831.2 | 3.5 |
| 80°-90° | 97.5 | 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° | 23551.8 | 100.0 |
| 0°-180° | 23551.8 | 100.0 |

Coefficient of Utilization



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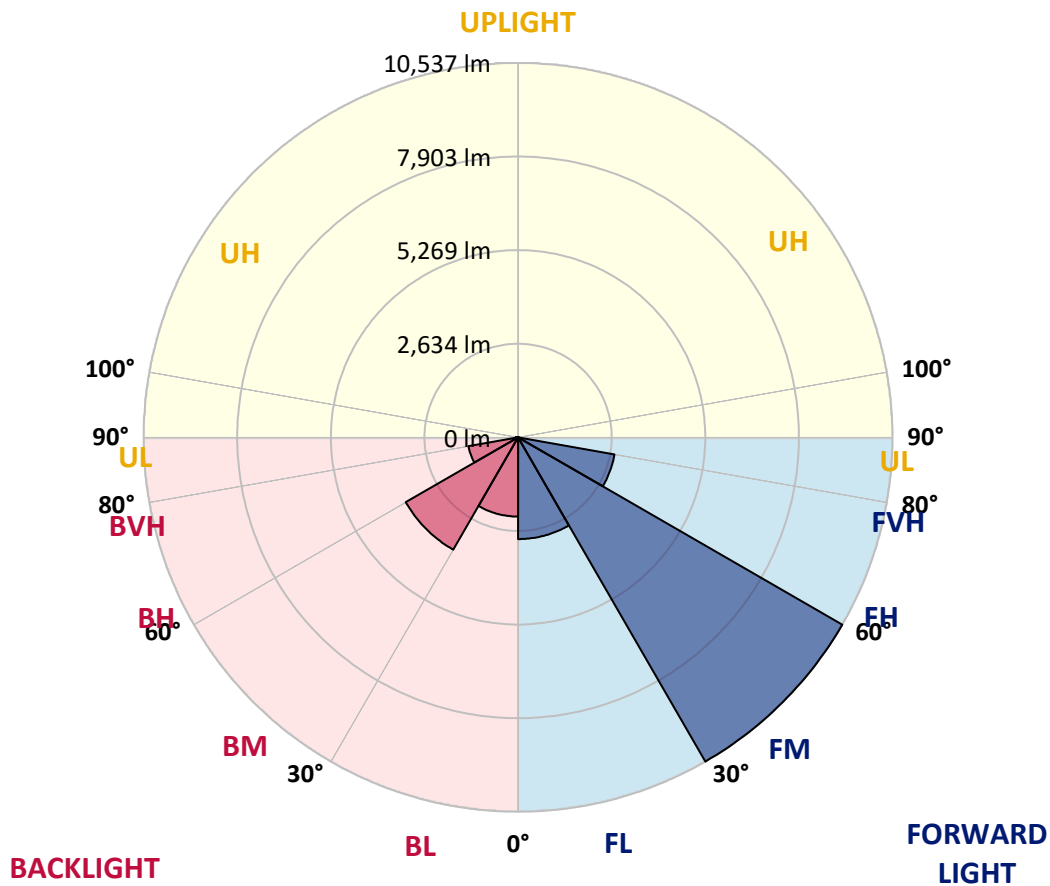
CATALOG NUMBER: GWS-SA5E-722-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2863.4 | 12.2 | | | |
| FM (30°-60°) | 10537.3 | 44.7 | | | |
| FH (60°-80°) | 2754.7 | 11.7 | | | G2/5000 |
| FVH (80°-90°) | 32.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2229.8 | 9.5 | B3/2500 | | |
| BM (30°-60°) | 3651.3 | 15.5 | B3/5000 | | |
| BH (60°-80°) | 1417.8 | 6.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 64.9 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 |
| 2.5° | 7088.6 | 7108.4 | 7112.4 | 7173.8 | 7177.8 | 7267.0 | 7326.5 | 7314.6 | 7376.0 | 7451.3 | 7510.8 |
| 5° | 6749.6 | 6751.6 | 6771.4 | 6844.8 | 6884.4 | 7001.4 | 7100.5 | 7100.5 | 7219.4 | 7374.0 | 7506.9 |
| 7.5° | 6470.1 | 6468.1 | 6486.0 | 6567.3 | 6632.7 | 6773.4 | 6908.2 | 6924.1 | 7090.6 | 7316.6 | 7532.6 |
| 10° | 6210.4 | 6224.3 | 6244.1 | 6343.3 | 6426.5 | 6601.0 | 6761.5 | 6787.3 | 6997.4 | 7276.9 | 7568.3 |
| 12.5° | 6043.9 | 6045.9 | 6075.7 | 6186.7 | 6293.7 | 6480.0 | 6648.5 | 6680.2 | 6922.1 | 7239.2 | 7594.1 |
| 15° | 5936.9 | 5938.9 | 5970.6 | 6093.5 | 6218.4 | 6406.7 | 6579.1 | 6614.8 | 6878.5 | 7233.3 | 7643.6 |
| 17.5° | 5889.3 | 5887.3 | 5917.1 | 6040.0 | 6176.7 | 6373.0 | 6557.3 | 6601.0 | 6898.3 | 7278.9 | 7730.8 |
| 20° | 5889.3 | 5891.3 | 5907.2 | 6018.2 | 6156.9 | 6365.1 | 6579.1 | 6632.7 | 6975.6 | 7382.0 | 7865.6 |
| 22.5° | 5972.6 | 5980.5 | 5988.4 | 6063.8 | 6172.8 | 6377.0 | 6636.6 | 6708.0 | 7142.1 | 7554.4 | 8042.1 |
| 25° | 6135.1 | 6137.1 | 6145.0 | 6206.5 | 6256.0 | 6410.7 | 6731.8 | 6838.8 | 7401.8 | 7806.2 | 8264.1 |
| 27.5° | 6353.2 | 6380.9 | 6388.9 | 6428.5 | 6428.5 | 6493.9 | 6880.5 | 7035.1 | 7752.7 | 8168.9 | 8547.5 |
| 30° | 6658.4 | 6668.4 | 6682.2 | 6725.8 | 6678.3 | 6650.5 | 7098.5 | 7296.7 | 8159.0 | 8607.0 | 8888.5 |
| 32.5° | 6926.0 | 6947.9 | 7023.2 | 7094.5 | 7009.3 | 6922.1 | 7419.6 | 7653.5 | 8549.5 | 9062.9 | 9251.2 |
| 35° | 7154.0 | 7207.5 | 7352.2 | 7510.8 | 7451.3 | 7364.1 | 7845.8 | 8089.6 | 8870.7 | 9390.0 | 9572.4 |
| 37.5° | 7429.5 | 7471.2 | 7669.4 | 7927.1 | 7980.6 | 7939.0 | 8365.2 | 8539.6 | 9084.7 | 9473.3 | 9746.8 |
| 40° | 7709.0 | 7772.5 | 8028.2 | 8385.0 | 8589.2 | 8618.9 | 8844.9 | 8961.8 | 9158.1 | 9310.7 | 9713.1 |
| 42.5° | 7994.5 | 8103.5 | 8454.4 | 8870.7 | 9233.4 | 9300.8 | 9249.3 | 9298.8 | 9134.3 | 9086.7 | 9556.5 |
| 45° | 8343.4 | 8472.2 | 8868.7 | 9399.9 | 9877.6 | 9982.7 | 9645.7 | 9600.1 | 9130.3 | 9001.5 | 9459.4 |
| 47.5° | 8755.7 | 8884.5 | 9263.1 | 9881.6 | 10492.1 | 10569.5 | 10052.1 | 9968.8 | 9269.1 | 9132.3 | 9590.2 |
| 50° | 9120.4 | 9209.6 | 9548.6 | 10240.4 | 11065.0 | 11110.6 | 10500.1 | 10399.0 | 9614.0 | 9495.1 | 9998.6 |
| 52.5° | 8749.7 | 8739.8 | 9096.6 | 9949.0 | 11362.4 | 11911.5 | 11189.9 | 11092.8 | 10280.0 | 10097.7 | 10630.9 |
| 55° | 7423.6 | 7310.6 | 7629.8 | 8468.3 | 10531.8 | 12623.1 | 12426.8 | 12232.6 | 11168.1 | 10704.2 | 11223.6 |
| 57.5° | 5427.5 | 5395.7 | 5473.0 | 6260.0 | 8436.5 | 11520.9 | 13184.1 | 13166.2 | 11935.2 | 11259.3 | 11814.3 |
| 60° | 4244.0 | 4196.5 | 3990.3 | 4012.1 | 5750.6 | 8999.5 | 11441.7 | 11967.0 | 12411.0 | 11592.3 | 12226.6 |
| 62.5° | 3768.3 | 3732.6 | 3625.6 | 3330.2 | 3425.4 | 6034.0 | 8387.0 | 8868.7 | 10845.0 | 10238.4 | 10502.1 |
| 65° | 3120.1 | 3110.2 | 3199.4 | 3187.5 | 2870.3 | 3332.2 | 4733.7 | 5219.3 | 6819.0 | 6904.2 | 6819.0 |
| 67.5° | 2267.7 | 2249.9 | 2475.9 | 2921.9 | 2763.3 | 2515.5 | 2638.4 | 2806.9 | 3496.7 | 3139.9 | 2826.7 |
| 70° | 1474.8 | 1449.0 | 1579.9 | 2111.1 | 2473.9 | 2192.4 | 1901.0 | 1873.2 | 1922.8 | 1195.3 | 1292.4 |
| 72.5° | 989.2 | 959.4 | 957.4 | 1161.6 | 1494.6 | 1476.8 | 1472.8 | 1458.9 | 1302.4 | 943.6 | 1046.6 |
| 75° | 551.1 | 527.3 | 521.3 | 501.5 | 535.2 | 545.1 | 580.8 | 600.6 | 650.2 | 715.6 | 792.9 |
| 77.5° | 93.2 | 91.2 | 115.0 | 146.7 | 202.2 | 259.7 | 321.1 | 339.0 | 418.3 | 495.6 | 545.1 |
| 80° | 51.5 | 53.5 | 69.4 | 85.2 | 113.0 | 154.6 | 198.2 | 210.1 | 257.7 | 299.3 | 339.0 |
| 82.5° | 27.8 | 27.8 | 35.7 | 45.6 | 61.5 | 81.3 | 107.0 | 117.0 | 148.7 | 174.4 | 202.2 |
| 85° | 9.9 | 9.9 | 13.9 | 17.8 | 25.8 | 33.7 | 41.6 | 47.6 | 65.4 | 89.2 | 101.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.0 | 7.9 | 7.9 | 9.9 | 17.8 | 25.8 |
| 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-SA5E-722-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 | 7520.7 |
| 2.5° | 7560.4 | 7506.9 | 7580.2 | 7613.9 | 7625.8 | 7633.7 | 7582.2 | 7546.5 | 7534.6 | 7496.9 | 7475.1 |
| 5° | 7588.1 | 7552.4 | 7621.8 | 7621.8 | 7572.3 | 7520.7 | 7415.7 | 7342.3 | 7290.8 | 7229.3 | 7219.4 |
| 7.5° | 7635.7 | 7609.9 | 7647.6 | 7570.3 | 7445.4 | 7306.6 | 7124.3 | 6981.5 | 6866.6 | 6791.3 | 6793.2 |
| 10° | 7699.1 | 7667.4 | 7637.7 | 7465.2 | 7237.3 | 6981.5 | 6702.0 | 6493.9 | 6303.6 | 6216.4 | 6168.8 |
| 12.5° | 7740.8 | 7695.2 | 7570.3 | 7284.8 | 6949.8 | 6606.9 | 6212.4 | 5903.2 | 5627.7 | 5502.8 | 5492.9 |
| 15° | 7792.3 | 7709.0 | 7459.3 | 7050.9 | 6585.1 | 6117.3 | 5609.8 | 5179.7 | 4807.0 | 4612.7 | 4602.8 |
| 17.5° | 7859.7 | 7722.9 | 7326.5 | 6783.3 | 6200.5 | 5510.7 | 4872.4 | 4331.3 | 3934.8 | 3784.2 | 3809.9 |
| 20° | 7954.8 | 7738.8 | 7175.8 | 6486.0 | 5722.8 | 4820.9 | 4026.0 | 3528.4 | 3375.8 | 3365.9 | 3346.1 |
| 22.5° | 8061.9 | 7748.7 | 7009.3 | 6153.0 | 5144.0 | 4085.5 | 3326.2 | 3114.1 | 3112.2 | 3161.7 | 3173.6 |
| 25° | 8182.8 | 7756.6 | 6821.0 | 5764.4 | 4517.6 | 3352.0 | 2941.7 | 2878.3 | 2927.8 | 3021.0 | 3032.9 |
| 27.5° | 8337.4 | 7772.5 | 6593.0 | 5338.2 | 3851.5 | 2896.1 | 2729.6 | 2713.7 | 2773.2 | 2860.4 | 2856.4 |
| 30° | 8565.4 | 7830.0 | 6351.2 | 4848.6 | 3167.7 | 2680.0 | 2600.7 | 2602.7 | 2626.5 | 2668.1 | 2674.1 |
| 32.5° | 8797.3 | 7919.2 | 6115.3 | 4297.6 | 2775.2 | 2557.1 | 2521.4 | 2517.5 | 2517.5 | 2535.3 | 2539.3 |
| 35° | 9017.3 | 8020.3 | 5859.6 | 3722.7 | 2584.9 | 2485.8 | 2462.0 | 2450.1 | 2444.1 | 2440.2 | 2434.2 |
| 37.5° | 9140.2 | 8069.8 | 5609.8 | 3155.8 | 2483.8 | 2438.2 | 2414.4 | 2398.5 | 2376.7 | 2360.9 | 2356.9 |
| 40° | 9086.7 | 8012.3 | 5320.4 | 2731.6 | 2422.3 | 2392.6 | 2364.8 | 2343.0 | 2313.3 | 2299.4 | 2291.5 |
| 42.5° | 8908.3 | 7833.9 | 5005.2 | 2531.4 | 2372.8 | 2343.0 | 2309.3 | 2273.7 | 2253.8 | 2241.9 | 2240.0 |
| 45° | 8720.0 | 7617.9 | 4624.6 | 2414.4 | 2325.2 | 2289.5 | 2249.9 | 2210.2 | 2188.4 | 2182.5 | 2180.5 |
| 47.5° | 8714.1 | 7510.8 | 4220.2 | 2321.2 | 2267.7 | 2232.0 | 2182.5 | 2142.8 | 2119.0 | 2111.1 | 2103.2 |
| 50° | 8975.7 | 7619.8 | 3764.3 | 2240.0 | 2208.2 | 2170.6 | 2115.1 | 2071.5 | 2041.7 | 2031.8 | 2029.8 |
| 52.5° | 9518.9 | 8030.2 | 3356.0 | 2158.7 | 2129.0 | 2085.3 | 2039.8 | 1996.1 | 1960.5 | 1942.6 | 1940.6 |
| 55° | 10105.6 | 8551.5 | 3102.2 | 2075.4 | 2035.8 | 1998.1 | 1956.5 | 1908.9 | 1869.3 | 1841.5 | 1837.6 |
| 57.5° | 10712.2 | 9120.4 | 3024.9 | 1970.4 | 1940.6 | 1914.9 | 1865.3 | 1813.8 | 1768.2 | 1742.4 | 1736.5 |
| 60° | 11211.7 | 9610.0 | 3169.6 | 1859.4 | 1843.5 | 1809.8 | 1764.2 | 1714.7 | 1682.9 | 1663.1 | 1659.2 |
| 62.5° | 9386.0 | 7824.0 | 2559.1 | 1738.4 | 1738.4 | 1702.8 | 1651.2 | 1615.5 | 1593.7 | 1579.9 | 1575.9 |
| 65° | 5956.7 | 4844.7 | 1746.4 | 1617.5 | 1615.5 | 1568.0 | 1524.4 | 1500.6 | 1490.7 | 1468.9 | 1464.9 |
| 67.5° | 2594.8 | 2214.2 | 1492.6 | 1494.6 | 1486.7 | 1435.2 | 1391.6 | 1373.7 | 1353.9 | 1330.1 | 1328.1 |
| 70° | 1346.0 | 1371.7 | 1336.0 | 1357.9 | 1344.0 | 1282.5 | 1240.9 | 1213.1 | 1171.5 | 1147.7 | 1149.7 |
| 72.5° | 1086.3 | 1114.0 | 1153.7 | 1187.4 | 1157.6 | 1108.1 | 1042.7 | 1009.0 | 955.5 | 929.7 | 931.7 |
| 75° | 828.6 | 858.3 | 896.0 | 931.7 | 907.9 | 846.4 | 804.8 | 771.1 | 709.7 | 679.9 | 685.9 |
| 77.5° | 570.9 | 586.8 | 632.3 | 630.4 | 622.4 | 604.6 | 543.1 | 503.5 | 440.1 | 404.4 | 408.3 |
| 80° | 354.8 | 364.7 | 386.5 | 396.5 | 392.5 | 368.7 | 319.1 | 289.4 | 251.7 | 229.9 | 231.9 |
| 82.5° | 214.1 | 220.0 | 239.9 | 241.8 | 239.9 | 222.0 | 184.4 | 162.5 | 138.8 | 126.9 | 126.9 |
| 85° | 109.0 | 113.0 | 124.9 | 124.9 | 113.0 | 95.1 | 85.2 | 75.3 | 61.5 | 55.5 | 55.5 |
| 87.5° | 29.7 | 29.7 | 37.7 | 31.7 | 25.8 | 23.8 | 11.9 | 9.9 | 4.0 | 2.0 | 2.0 |
| 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)