

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: P639701

Luminaire Tested: GWS-SA5C-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23301.8 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

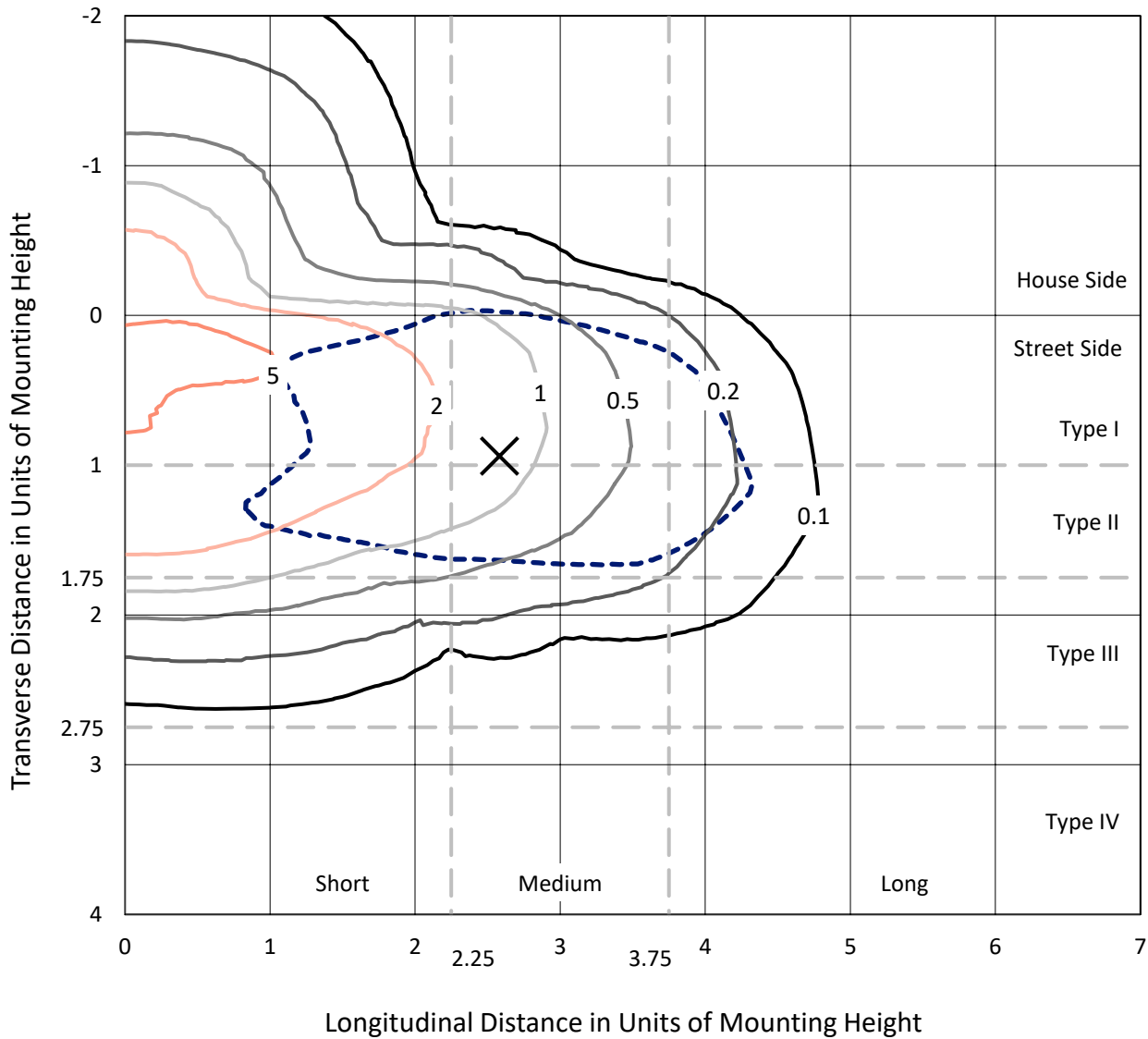
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

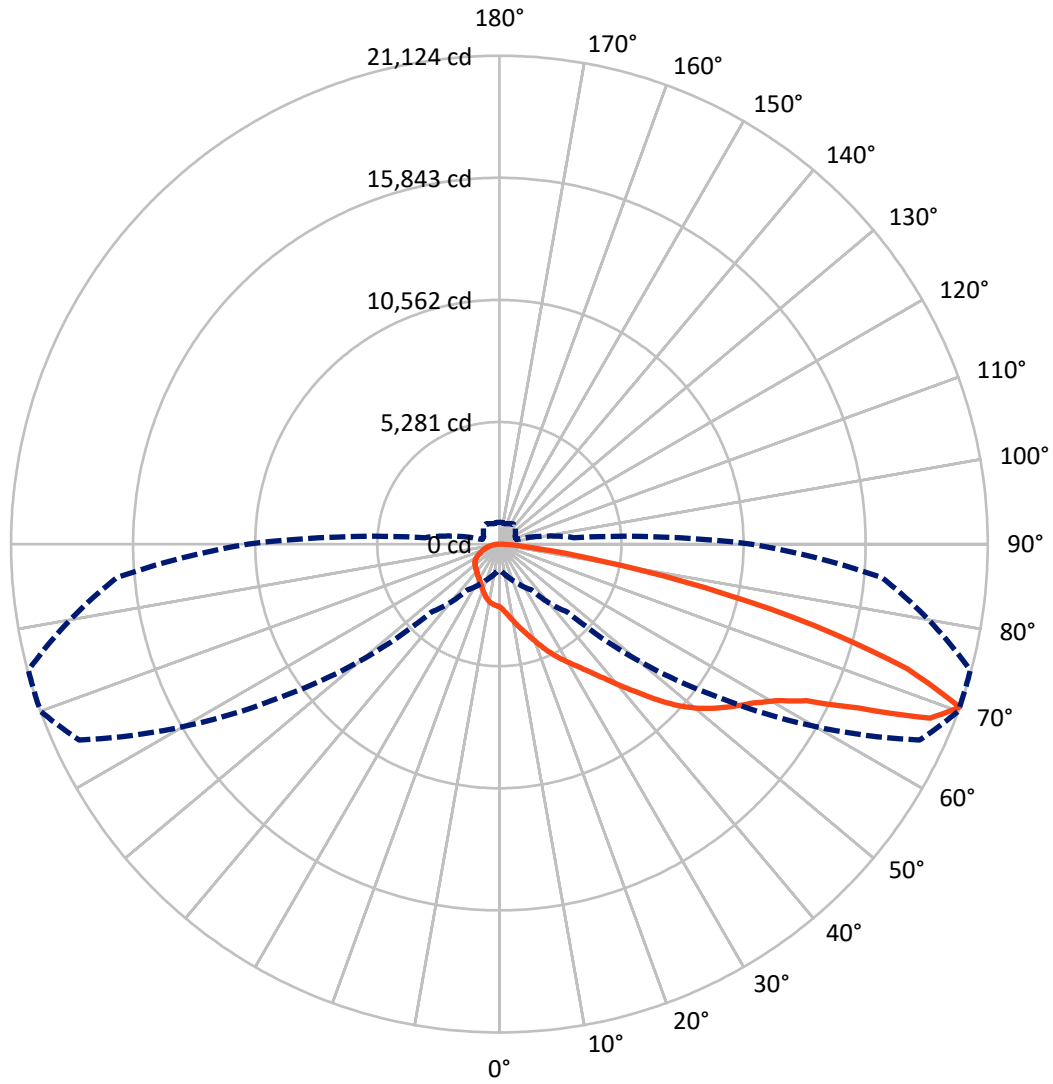
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4175.7 | 0.0 | 4175.7 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 19126.1 | 0.0 | 19126.1 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 23301.8 | 0.0 | 23301.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 276.2 | 1.2 |
| 10°-20° | 898.5 | 3.9 |
| 20°-30° | 1591.7 | 6.8 |
| 30°-40° | 2395.5 | 10.3 |
| 40°-50° | 3624.1 | 15.6 |
| 50°-60° | 5191.8 | 22.3 |
| 60°-70° | 5738.9 | 24.6 |
| 70°-80° | 3238.6 | 13.9 |
| 80°-90° | 346.4 | 1.5 |
| 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° | 23301.8 | 100.0 |
| 0°-180° | 23301.8 | 100.0 |

Coefficient of Utilization



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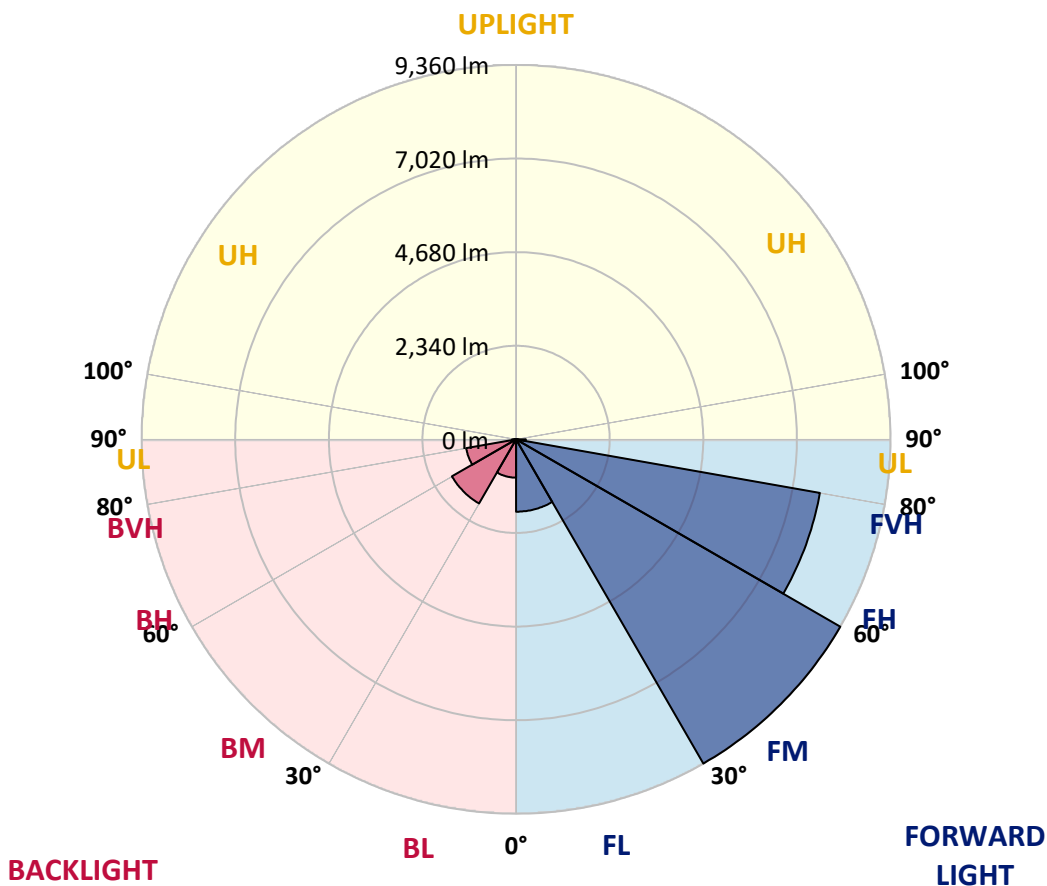
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1808.9 | 7.8 | | | |
| FM (30°-60°) | 9360.3 | 40.2 | | | |
| FH (60°-80°) | 7711.9 | 33.1 | | | G4/12000 |
| FVH (80°-90°) | 244.9 | 1.1 | | | G3/500 |
| BL (0°-30°) | 957.4 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1851.1 | 7.9 | B2/2500 | | |
| BH (60°-80°) | 1265.6 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 101.5 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 |
| 2.5° | 3010.4 | 3005.4 | 3008.8 | 3005.4 | 2986.9 | 2941.4 | 2904.4 | 2857.2 | 2825.2 | 2806.7 | 2762.9 |
| 5° | 3364.0 | 3359.0 | 3347.2 | 3330.3 | 3296.7 | 3234.4 | 3141.8 | 3039.1 | 2976.8 | 2929.6 | 2837.0 |
| 7.5° | 3618.2 | 3618.2 | 3616.6 | 3596.4 | 3572.8 | 3507.1 | 3397.7 | 3263.0 | 3172.1 | 3091.3 | 2939.7 |
| 10° | 3747.9 | 3756.3 | 3768.1 | 3796.7 | 3791.7 | 3756.3 | 3653.6 | 3508.8 | 3394.3 | 3300.0 | 3074.4 |
| 12.5° | 3818.6 | 3823.7 | 3843.9 | 3902.8 | 3963.4 | 3971.8 | 3911.2 | 3759.7 | 3635.1 | 3508.8 | 3224.3 |
| 15° | 3909.5 | 3911.2 | 3938.1 | 4008.9 | 4098.1 | 4187.3 | 4172.2 | 4020.6 | 3892.7 | 3752.9 | 3390.9 |
| 17.5° | 3980.2 | 3992.0 | 4040.9 | 4123.4 | 4234.5 | 4357.4 | 4431.5 | 4337.2 | 4178.9 | 4019.0 | 3572.8 |
| 20° | 4005.5 | 4013.9 | 4077.9 | 4204.2 | 4355.7 | 4529.1 | 4694.1 | 4668.9 | 4508.9 | 4320.3 | 3778.2 |
| 22.5° | 4096.4 | 4096.4 | 4143.6 | 4249.6 | 4428.1 | 4680.7 | 4948.4 | 5014.0 | 4872.6 | 4652.0 | 3998.8 |
| 25° | 4296.8 | 4290.0 | 4311.9 | 4355.7 | 4490.4 | 4801.9 | 5199.2 | 5396.2 | 5238.0 | 4990.5 | 4219.3 |
| 27.5° | 4571.2 | 4567.8 | 4566.2 | 4572.9 | 4618.4 | 4908.0 | 5411.4 | 5753.2 | 5594.9 | 5315.4 | 4416.3 |
| 30° | 4869.2 | 4859.1 | 4881.0 | 4860.8 | 4850.7 | 5034.2 | 5591.5 | 6073.1 | 5950.2 | 5637.0 | 4579.6 |
| 32.5° | 5275.0 | 5256.5 | 5251.4 | 5185.8 | 5145.4 | 5231.2 | 5736.3 | 6436.7 | 6339.1 | 5983.8 | 4763.2 |
| 35° | 5810.4 | 5793.6 | 5707.7 | 5603.3 | 5483.8 | 5524.2 | 5916.5 | 6792.0 | 6798.7 | 6418.2 | 5003.9 |
| 37.5° | 6350.9 | 6354.2 | 6286.9 | 6041.1 | 5918.2 | 5894.6 | 6190.9 | 7224.7 | 7369.5 | 6936.8 | 5315.4 |
| 40° | 6800.4 | 6820.6 | 6820.6 | 6561.3 | 6377.8 | 6355.9 | 6576.5 | 7738.2 | 8026.1 | 7573.2 | 5709.4 |
| 42.5° | 7142.2 | 7160.7 | 7219.7 | 7032.8 | 6839.1 | 6914.9 | 7044.6 | 8253.4 | 8770.3 | 8359.5 | 6207.8 |
| 45° | 7517.7 | 7532.8 | 7564.8 | 7457.1 | 7344.2 | 7546.3 | 7574.9 | 8869.7 | 9622.3 | 9241.8 | 6786.9 |
| 47.5° | 8016.0 | 8002.6 | 8005.9 | 7926.8 | 7839.3 | 8165.9 | 8159.2 | 9388.2 | 10445.6 | 10208.2 | 7415.0 |
| 50° | 8635.6 | 8660.9 | 8637.3 | 8480.7 | 8378.0 | 8676.0 | 8714.8 | 9962.4 | 11169.6 | 11164.5 | 8048.0 |
| 52.5° | 9231.7 | 9241.8 | 9366.4 | 9373.1 | 9162.6 | 9100.3 | 9201.4 | 10541.6 | 11780.8 | 12040.1 | 8655.8 |
| 55° | 9262.0 | 9300.7 | 9674.5 | 9943.9 | 10284.0 | 9783.9 | 9693.0 | 11093.8 | 12371.7 | 12897.0 | 9287.2 |
| 57.5° | 8617.1 | 8679.4 | 9314.2 | 9895.0 | 10841.3 | 10957.4 | 10534.8 | 11807.7 | 12962.7 | 13740.6 | 10017.9 |
| 60° | 7239.9 | 7369.5 | 8231.6 | 9120.5 | 10590.4 | 11801.0 | 12257.2 | 12777.5 | 13738.9 | 14602.6 | 10905.2 |
| 62.5° | 4623.4 | 4673.9 | 5882.8 | 7371.2 | 9460.6 | 11718.5 | 14132.9 | 14486.5 | 14920.8 | 15725.6 | 12272.4 |
| 65° | 2315.1 | 2476.7 | 3185.5 | 4399.5 | 6822.3 | 10326.1 | 15080.8 | 17616.4 | 17084.4 | 17648.4 | 14488.1 |
| 67.5° | 1570.9 | 1623.1 | 1981.7 | 2643.4 | 4000.4 | 7315.6 | 14493.2 | 20253.1 | 20096.5 | 20189.1 | 16850.3 |
| 70° | 1158.4 | 1192.1 | 1474.9 | 1872.3 | 2419.5 | 4153.7 | 11538.3 | 20054.4 | 21123.5 | 21089.9 | 16602.8 |
| 72.5° | 845.2 | 862.0 | 1075.9 | 1429.5 | 1793.1 | 2148.4 | 7046.2 | 16200.4 | 18439.8 | 19411.2 | 14520.1 |
| 75° | 614.5 | 634.8 | 747.6 | 1069.1 | 1394.1 | 1340.2 | 3478.5 | 11701.6 | 14062.2 | 15931.1 | 11829.6 |
| 77.5° | 458.0 | 483.2 | 535.4 | 670.1 | 976.5 | 959.7 | 1503.5 | 7598.5 | 9095.3 | 10405.2 | 7186.0 |
| 80° | 330.0 | 335.1 | 365.4 | 429.3 | 619.6 | 562.4 | 715.6 | 3961.7 | 4542.6 | 4977.0 | 2816.8 |
| 82.5° | 200.4 | 205.4 | 244.1 | 264.3 | 383.9 | 353.6 | 372.1 | 1283.0 | 1838.6 | 1951.4 | 1052.3 |
| 85° | 58.9 | 62.3 | 111.1 | 121.2 | 160.0 | 151.5 | 149.8 | 521.9 | 623.0 | 796.4 | 414.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 10.1 | 18.5 | 92.6 | 139.7 | 193.6 | 101.0 |
| 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° | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 | 2717.5 |
| 2.5° | 2746.1 | 2707.4 | 2687.2 | 2651.8 | 2626.6 | 2601.3 | 2576.0 | 2552.5 | 2542.4 | 2527.2 | 2530.6 |
| 5° | 2794.9 | 2734.3 | 2673.7 | 2604.7 | 2545.7 | 2496.9 | 2453.1 | 2414.4 | 2397.6 | 2382.4 | 2389.2 |
| 7.5° | 2869.0 | 2778.1 | 2661.9 | 2535.6 | 2443.0 | 2375.7 | 2330.2 | 2303.3 | 2294.9 | 2283.1 | 2283.1 |
| 10° | 2963.3 | 2826.9 | 2623.2 | 2443.0 | 2331.9 | 2278.0 | 2257.8 | 2256.1 | 2264.6 | 2266.2 | 2262.9 |
| 12.5° | 3067.7 | 2874.1 | 2565.9 | 2333.6 | 2239.3 | 2222.5 | 2237.6 | 2266.2 | 2294.9 | 2310.0 | 2306.7 |
| 15° | 3175.4 | 2904.4 | 2468.3 | 2229.2 | 2172.0 | 2193.8 | 2242.7 | 2299.9 | 2355.5 | 2384.1 | 2382.4 |
| 17.5° | 3276.5 | 2911.1 | 2342.0 | 2128.2 | 2113.0 | 2168.6 | 2252.8 | 2342.0 | 2417.8 | 2458.2 | 2459.9 |
| 20° | 3389.3 | 2899.3 | 2212.4 | 2037.3 | 2054.1 | 2145.0 | 2256.1 | 2363.9 | 2453.1 | 2493.5 | 2503.6 |
| 22.5° | 3492.0 | 2858.9 | 2086.1 | 1951.4 | 2003.6 | 2116.4 | 2229.2 | 2330.2 | 2409.4 | 2448.1 | 2461.6 |
| 25° | 3584.6 | 2781.5 | 1948.0 | 1879.0 | 1964.9 | 2076.0 | 2161.9 | 2232.6 | 2288.1 | 2311.7 | 2330.2 |
| 27.5° | 3635.1 | 2665.3 | 1843.6 | 1821.8 | 1927.8 | 2018.7 | 2065.9 | 2087.8 | 2106.3 | 2099.6 | 2113.0 |
| 30° | 3645.2 | 2520.5 | 1752.7 | 1776.3 | 1872.3 | 1939.6 | 1949.7 | 1927.8 | 1895.8 | 1843.6 | 1855.4 |
| 32.5° | 3635.1 | 2353.8 | 1677.0 | 1727.5 | 1810.0 | 1850.4 | 1836.9 | 1779.7 | 1702.2 | 1621.4 | 1626.4 |
| 35° | 3638.4 | 2185.4 | 1614.7 | 1673.6 | 1737.6 | 1759.5 | 1725.8 | 1646.6 | 1564.1 | 1490.1 | 1486.7 |
| 37.5° | 3675.5 | 2044.0 | 1562.5 | 1621.4 | 1666.9 | 1670.2 | 1633.2 | 1550.7 | 1508.6 | 1453.0 | 1446.3 |
| 40° | 3778.2 | 1939.6 | 1515.3 | 1569.2 | 1597.8 | 1596.1 | 1554.0 | 1495.1 | 1523.7 | 1505.2 | 1500.2 |
| 42.5° | 3946.6 | 1875.6 | 1476.6 | 1513.6 | 1533.8 | 1537.2 | 1503.5 | 1466.5 | 1528.8 | 1505.2 | 1496.8 |
| 45° | 4217.6 | 1872.3 | 1449.7 | 1458.1 | 1490.1 | 1513.6 | 1490.1 | 1448.0 | 1471.5 | 1357.1 | 1335.2 |
| 47.5° | 4539.2 | 1929.5 | 1429.5 | 1409.2 | 1464.8 | 1506.9 | 1469.9 | 1402.5 | 1353.7 | 1249.3 | 1234.1 |
| 50° | 4926.5 | 2045.7 | 1410.9 | 1357.1 | 1427.8 | 1481.6 | 1444.6 | 1352.0 | 1277.9 | 1222.4 | 1213.9 |
| 52.5° | 5386.1 | 2198.9 | 1387.4 | 1298.1 | 1372.2 | 1468.2 | 1444.6 | 1347.0 | 1249.3 | 1198.8 | 1190.4 |
| 55° | 5867.7 | 2375.7 | 1360.4 | 1227.4 | 1309.9 | 1471.5 | 1456.4 | 1311.6 | 1227.4 | 1200.5 | 1193.7 |
| 57.5° | 6465.4 | 2587.8 | 1311.6 | 1144.9 | 1254.3 | 1441.2 | 1409.2 | 1291.4 | 1212.3 | 1190.4 | 1183.6 |
| 60° | 7241.5 | 2902.7 | 1219.0 | 1060.7 | 1190.4 | 1387.4 | 1367.2 | 1257.7 | 1171.8 | 1153.3 | 1148.3 |
| 62.5° | 8470.6 | 3436.4 | 1106.2 | 979.9 | 1114.6 | 1274.6 | 1304.9 | 1193.7 | 1121.3 | 1119.7 | 1118.0 |
| 65° | 10474.2 | 4077.9 | 973.2 | 907.5 | 1035.5 | 1181.9 | 1222.4 | 1128.1 | 1069.1 | 1087.7 | 1086.0 |
| 67.5° | 11878.4 | 4133.5 | 863.7 | 831.7 | 942.9 | 1080.9 | 1139.9 | 1060.7 | 996.7 | 1032.1 | 1030.4 |
| 70° | 10880.0 | 3224.3 | 769.4 | 752.6 | 843.5 | 971.5 | 1050.6 | 976.5 | 912.6 | 946.2 | 939.5 |
| 72.5° | 9176.1 | 2471.7 | 680.2 | 670.1 | 742.5 | 857.0 | 936.1 | 892.4 | 825.0 | 825.0 | 809.9 |
| 75° | 7374.6 | 2038.9 | 585.9 | 580.9 | 629.7 | 740.8 | 830.1 | 756.0 | 693.7 | 690.3 | 680.2 |
| 77.5° | 4229.4 | 1336.8 | 491.6 | 488.3 | 503.4 | 619.6 | 644.9 | 629.7 | 582.6 | 560.7 | 553.9 |
| 80° | 1685.4 | 695.4 | 387.2 | 365.4 | 380.5 | 454.6 | 508.5 | 483.2 | 442.8 | 415.9 | 400.7 |
| 82.5° | 653.3 | 348.5 | 272.8 | 239.1 | 261.0 | 328.3 | 368.7 | 360.3 | 333.4 | 272.8 | 255.9 |
| 85° | 266.0 | 170.1 | 163.3 | 138.1 | 151.5 | 176.8 | 212.1 | 183.5 | 151.5 | 107.8 | 102.7 |
| 87.5° | 70.7 | 62.3 | 60.6 | 37.0 | 28.6 | 8.4 | 1.7 | 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)