

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: P635360

Luminaire Tested: GWS-SA3D-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18355.7 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

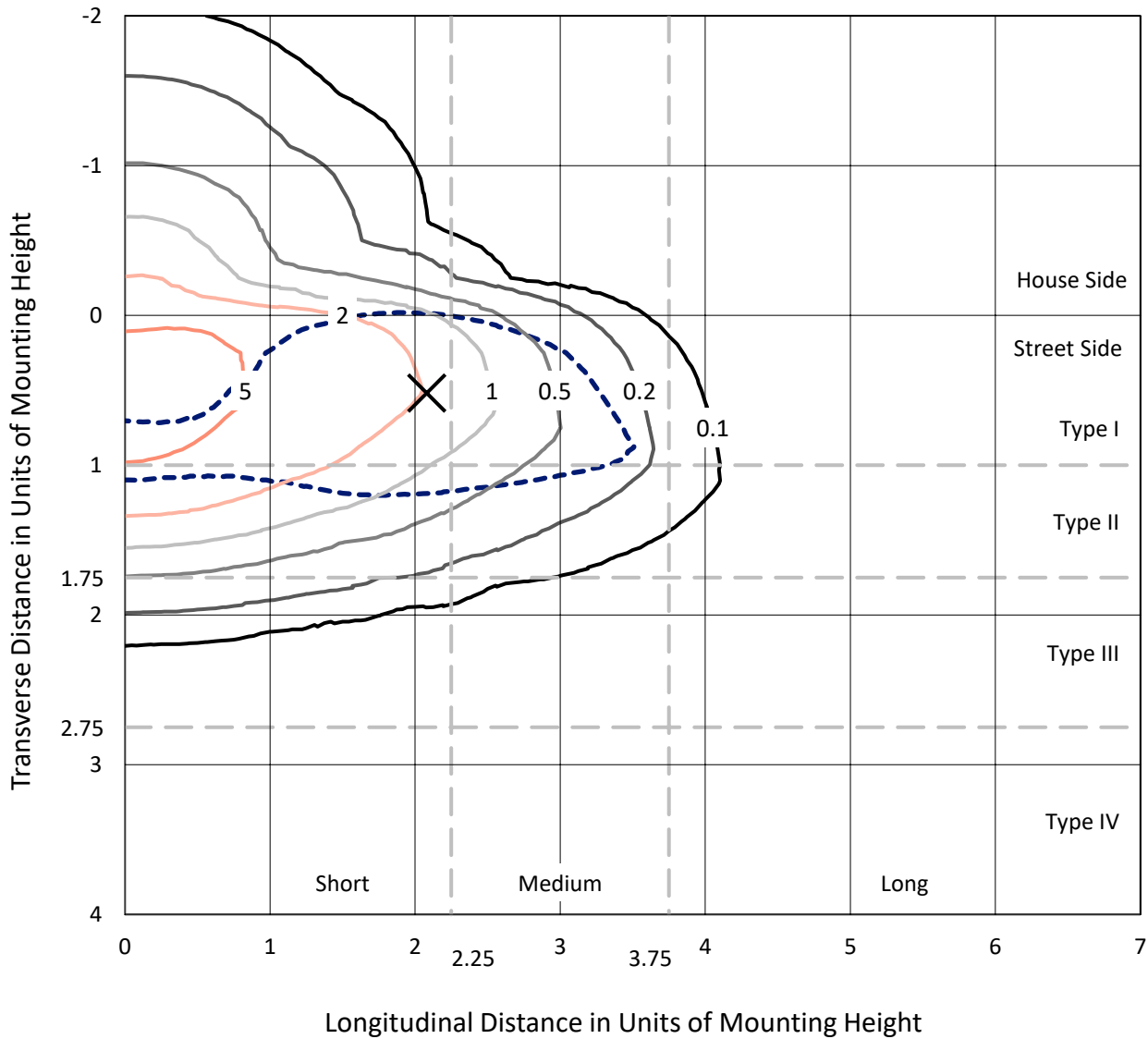
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

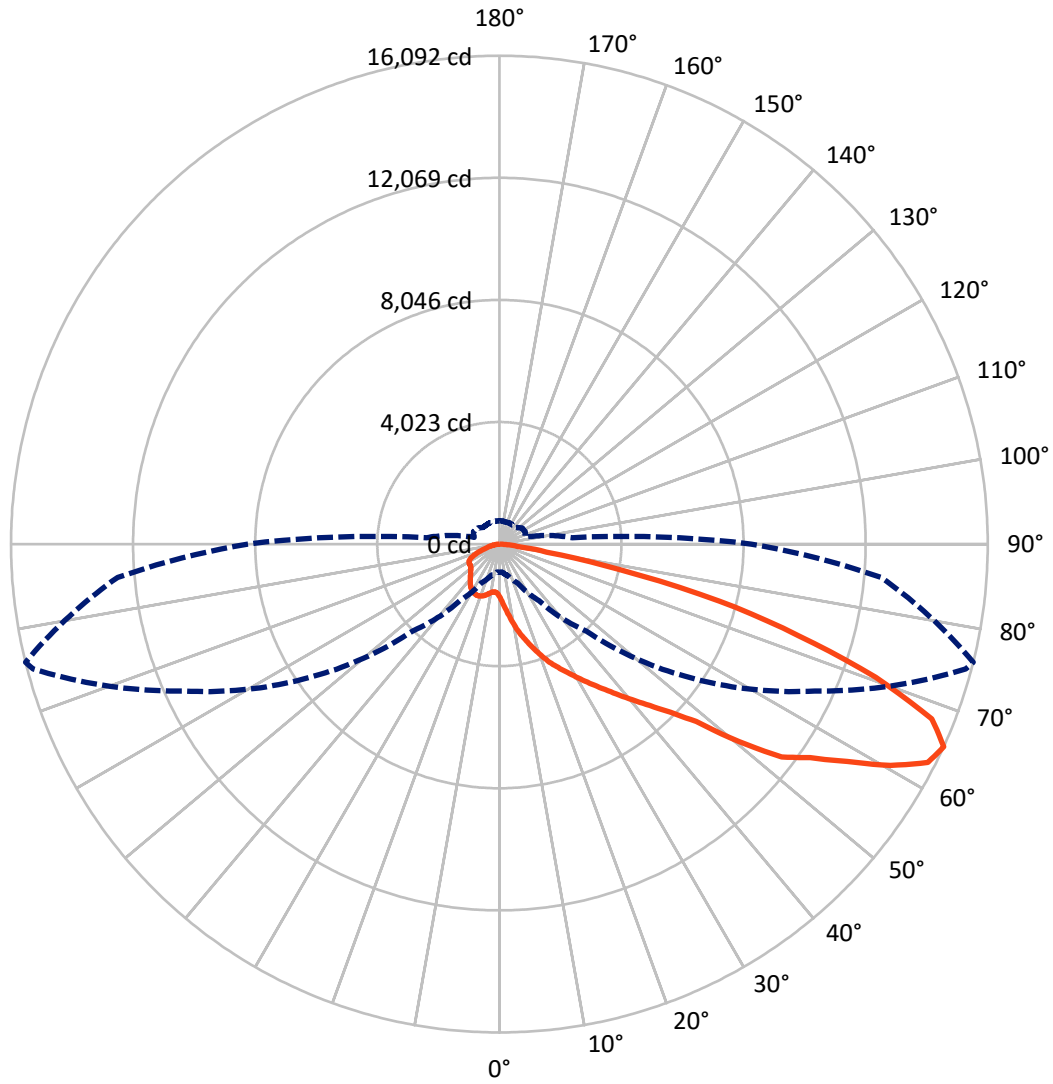
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3068.2 | 0.0 | 3068.2 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 15287.5 | 0.0 | 15287.5 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 18355.7 | 0.0 | 18355.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 206.5 | 1.1 |
| 10°-20° | 786.6 | 4.3 |
| 20°-30° | 1532.9 | 8.4 |
| 30°-40° | 2563.7 | 14.0 |
| 40°-50° | 3670.7 | 20.0 |
| 50°-60° | 4345.7 | 23.7 |
| 60°-70° | 3613.4 | 19.7 |
| 70°-80° | 1478.7 | 8.1 |
| 80°-90° | 157.4 | 0.9 |
| 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° | 18355.7 | 100.0 |
| 0°-180° | 18355.7 | 100.0 |

Coefficient of Utilization



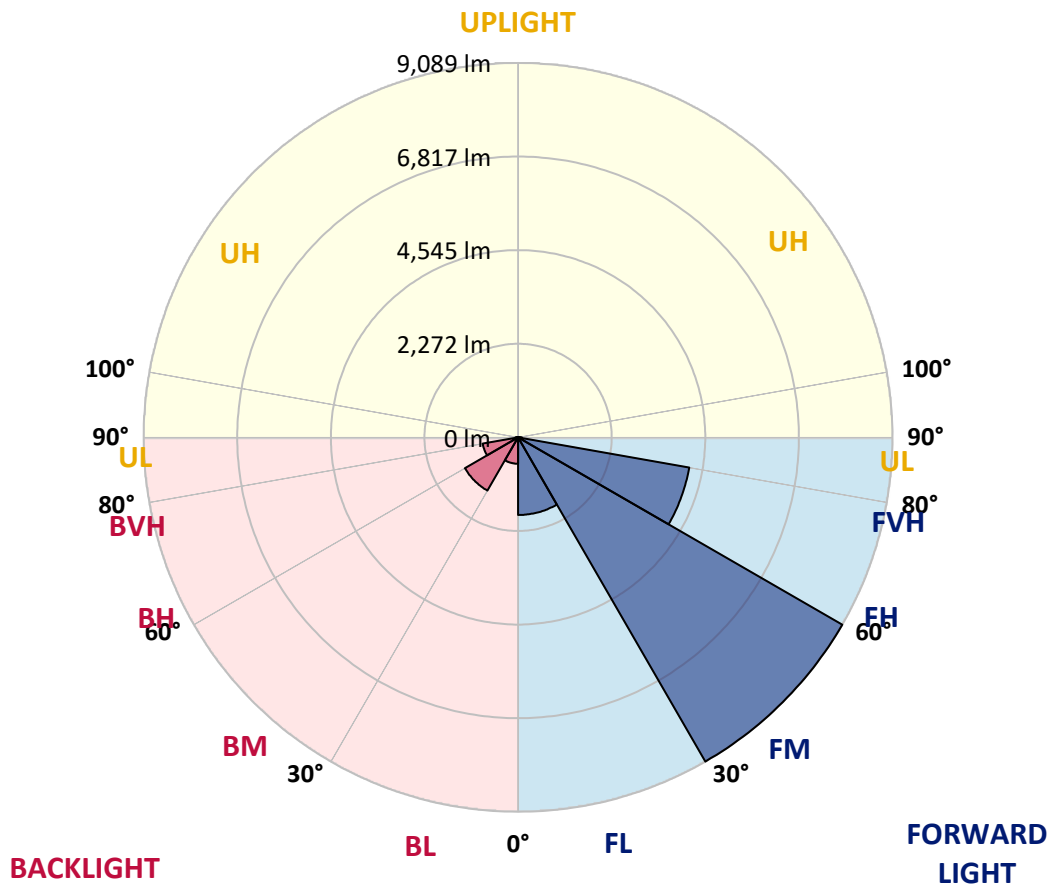
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1884.1 | 10.3 | | | |
| FM (30°-60°) | 9089.0 | 49.5 | | | |
| FH (60°-80°) | 4220.4 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 93.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 641.9 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1491.1 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 871.7 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 63.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 |
| 2.5° | 2436.3 | 2445.4 | 2415.7 | 2405.4 | 2335.7 | 2241.5 | 2162.8 | 2044.1 | 1934.4 | 1917.6 | 1819.5 |
| 5° | 3094.5 | 3055.8 | 3022.2 | 3000.3 | 2903.5 | 2796.4 | 2629.9 | 2406.7 | 2173.1 | 2144.7 | 1933.1 |
| 7.5° | 3485.5 | 3479.0 | 3437.7 | 3424.8 | 3350.0 | 3242.9 | 3071.2 | 2793.8 | 2454.4 | 2408.0 | 2086.6 |
| 10° | 3799.0 | 3795.2 | 3774.5 | 3786.1 | 3717.7 | 3613.2 | 3446.8 | 3160.3 | 2762.8 | 2716.4 | 2258.3 |
| 12.5° | 4072.6 | 4079.1 | 4075.2 | 4117.8 | 4082.9 | 4001.6 | 3828.7 | 3513.9 | 3071.2 | 3020.9 | 2467.3 |
| 15° | 4272.6 | 4277.8 | 4297.2 | 4390.1 | 4409.4 | 4392.6 | 4217.1 | 3861.0 | 3375.8 | 3303.5 | 2682.8 |
| 17.5° | 4329.4 | 4339.7 | 4386.2 | 4535.9 | 4640.4 | 4710.1 | 4579.8 | 4214.6 | 3675.2 | 3596.4 | 2902.2 |
| 20° | 4405.5 | 4417.2 | 4463.6 | 4619.8 | 4773.3 | 4932.0 | 4908.8 | 4573.3 | 3977.1 | 3912.6 | 3124.1 |
| 22.5° | 4757.8 | 4748.8 | 4728.2 | 4803.0 | 4912.7 | 5110.1 | 5168.2 | 4917.9 | 4289.4 | 4227.5 | 3369.3 |
| 25° | 5436.6 | 5419.8 | 5288.2 | 5219.8 | 5183.7 | 5303.7 | 5406.9 | 5231.4 | 4594.0 | 4501.0 | 3597.7 |
| 27.5° | 6185.1 | 6176.0 | 6008.3 | 5845.7 | 5623.7 | 5572.1 | 5632.8 | 5505.0 | 4889.5 | 4795.3 | 3796.5 |
| 30° | 6893.5 | 6866.4 | 6690.9 | 6487.0 | 6190.2 | 5968.3 | 5879.2 | 5773.4 | 5213.4 | 5115.3 | 4028.7 |
| 32.5° | 7527.1 | 7492.3 | 7285.8 | 7060.0 | 6749.0 | 6487.0 | 6221.2 | 6058.6 | 5579.8 | 5466.3 | 4266.2 |
| 35° | 8047.2 | 8012.3 | 7800.7 | 7560.7 | 7218.7 | 7025.1 | 6661.2 | 6368.3 | 5952.8 | 5837.9 | 4546.2 |
| 37.5° | 8449.8 | 8417.5 | 8196.8 | 7960.7 | 7662.6 | 7509.0 | 7192.9 | 6716.7 | 6382.5 | 6262.5 | 4843.0 |
| 40° | 8675.6 | 8652.4 | 8475.6 | 8288.5 | 8038.1 | 7905.2 | 7763.3 | 7156.8 | 6863.8 | 6743.8 | 5192.7 |
| 42.5° | 8744.0 | 8728.5 | 8604.6 | 8507.8 | 8338.8 | 8238.1 | 8319.4 | 7674.2 | 7377.4 | 7272.9 | 5586.3 |
| 45° | 8572.4 | 8572.4 | 8536.2 | 8585.3 | 8593.0 | 8591.7 | 8876.9 | 8258.8 | 8008.4 | 7893.6 | 6141.2 |
| 47.5° | 8133.6 | 8162.0 | 8214.9 | 8456.2 | 8710.4 | 8923.4 | 9528.6 | 9038.2 | 8820.1 | 8725.9 | 6927.1 |
| 50° | 7331.0 | 7408.4 | 7589.1 | 8060.1 | 8600.8 | 9142.7 | 10145.4 | 10190.6 | 10398.3 | 10231.9 | 8083.3 |
| 52.5° | 6155.4 | 6143.8 | 6604.5 | 7275.5 | 8100.1 | 9151.8 | 10484.8 | 11207.4 | 11766.2 | 11651.3 | 8942.7 |
| 55° | 4892.0 | 4872.7 | 5302.4 | 6227.6 | 7332.3 | 8805.9 | 10688.7 | 11673.3 | 12525.0 | 12421.7 | 9715.7 |
| 57.5° | 3746.1 | 3721.6 | 4103.6 | 4938.5 | 6248.3 | 8071.7 | 10650.0 | 12228.2 | 13568.9 | 13516.0 | 10766.1 |
| 60° | 2578.3 | 2548.6 | 2906.1 | 3636.4 | 4965.6 | 6949.0 | 10221.5 | 12513.4 | 14791.0 | 14809.0 | 11890.1 |
| 62.5° | 1548.5 | 1531.7 | 1791.1 | 2357.6 | 3571.9 | 5557.9 | 9218.9 | 12340.4 | 15764.0 | 15845.3 | 12612.7 |
| 65° | 934.3 | 922.7 | 1074.9 | 1406.6 | 2266.0 | 4055.8 | 7672.9 | 11456.5 | 15904.6 | 16091.7 | 12629.5 |
| 67.5° | 680.1 | 681.4 | 725.2 | 856.8 | 1321.4 | 2619.6 | 5757.9 | 9871.8 | 15171.7 | 15365.2 | 11833.3 |
| 70° | 591.0 | 593.6 | 616.8 | 646.5 | 798.8 | 1499.5 | 3743.6 | 7792.9 | 13005.0 | 13154.7 | 9924.7 |
| 72.5° | 525.2 | 525.2 | 540.7 | 556.2 | 624.6 | 913.6 | 2005.3 | 5446.9 | 10264.1 | 10304.1 | 7574.9 |
| 75° | 462.0 | 458.1 | 465.8 | 473.6 | 542.0 | 638.8 | 975.6 | 3795.2 | 7581.3 | 7488.4 | 4895.9 |
| 77.5° | 367.8 | 363.9 | 365.2 | 372.9 | 434.9 | 456.8 | 494.2 | 2370.5 | 4272.6 | 4032.6 | 2162.8 |
| 80° | 262.0 | 259.4 | 273.6 | 292.9 | 321.3 | 280.0 | 309.7 | 1147.2 | 1694.3 | 1576.9 | 838.8 |
| 82.5° | 156.1 | 161.3 | 183.2 | 198.7 | 222.0 | 175.5 | 200.0 | 383.3 | 600.1 | 584.6 | 340.7 |
| 85° | 21.9 | 23.2 | 65.8 | 76.1 | 95.5 | 68.4 | 105.8 | 172.9 | 240.0 | 256.8 | 120.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 31.0 | 68.4 | 69.7 | 29.7 |
| 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° | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 | 1738.2 |
| 2.5° | 1769.2 | 1708.5 | 1622.1 | 1549.8 | 1489.2 | 1440.1 | 1398.8 | 1367.9 | 1358.8 | 1345.9 | 1345.9 |
| 5° | 1833.7 | 1724.0 | 1569.2 | 1459.5 | 1396.3 | 1358.8 | 1333.0 | 1320.1 | 1313.7 | 1305.9 | 1302.0 |
| 7.5° | 1922.7 | 1769.2 | 1560.1 | 1449.2 | 1400.1 | 1376.9 | 1360.1 | 1352.4 | 1347.2 | 1339.5 | 1339.5 |
| 10° | 2045.3 | 1836.3 | 1588.5 | 1485.3 | 1446.6 | 1423.4 | 1404.0 | 1391.1 | 1379.5 | 1367.9 | 1365.3 |
| 12.5° | 2178.3 | 1924.0 | 1640.1 | 1534.3 | 1493.0 | 1464.6 | 1437.5 | 1418.2 | 1404.0 | 1389.8 | 1385.9 |
| 15° | 2325.4 | 2014.4 | 1695.6 | 1582.1 | 1530.5 | 1491.7 | 1459.5 | 1429.8 | 1410.4 | 1389.8 | 1387.2 |
| 17.5° | 2469.9 | 2106.0 | 1742.1 | 1614.3 | 1548.5 | 1500.8 | 1454.3 | 1415.6 | 1391.1 | 1367.9 | 1361.4 |
| 20° | 2642.8 | 2197.6 | 1774.3 | 1623.4 | 1544.7 | 1481.4 | 1425.9 | 1376.9 | 1349.8 | 1322.7 | 1318.8 |
| 22.5° | 2801.5 | 2282.8 | 1789.8 | 1610.5 | 1515.0 | 1440.1 | 1375.6 | 1322.7 | 1293.0 | 1265.9 | 1260.8 |
| 25° | 2955.1 | 2357.6 | 1783.4 | 1579.5 | 1469.8 | 1383.3 | 1316.2 | 1263.3 | 1234.9 | 1206.6 | 1198.8 |
| 27.5° | 3103.5 | 2408.0 | 1757.6 | 1531.7 | 1413.0 | 1320.1 | 1255.6 | 1207.8 | 1183.3 | 1158.8 | 1148.5 |
| 30° | 3249.3 | 2454.4 | 1717.6 | 1469.8 | 1340.8 | 1254.3 | 1201.4 | 1167.8 | 1143.3 | 1117.5 | 1109.8 |
| 32.5° | 3396.4 | 2488.0 | 1656.9 | 1397.5 | 1267.2 | 1196.2 | 1164.0 | 1139.5 | 1113.6 | 1087.8 | 1080.1 |
| 35° | 3544.8 | 2502.2 | 1583.4 | 1315.0 | 1205.3 | 1158.8 | 1147.2 | 1118.8 | 1084.0 | 1053.0 | 1042.7 |
| 37.5° | 3721.6 | 2515.1 | 1491.7 | 1233.7 | 1151.1 | 1140.7 | 1138.2 | 1095.6 | 1054.3 | 1011.7 | 1000.1 |
| 40° | 3934.5 | 2531.8 | 1397.5 | 1160.1 | 1107.2 | 1134.3 | 1124.0 | 1065.9 | 983.3 | 942.0 | 929.1 |
| 42.5° | 4195.2 | 2562.8 | 1299.5 | 1093.0 | 1074.9 | 1109.8 | 1098.2 | 993.6 | 938.1 | 914.9 | 908.5 |
| 45° | 4578.5 | 2676.4 | 1201.4 | 1040.1 | 1050.4 | 1074.9 | 1056.9 | 951.1 | 929.1 | 913.6 | 905.9 |
| 47.5° | 5261.1 | 2850.6 | 1116.2 | 1000.1 | 1031.1 | 1044.0 | 974.3 | 939.4 | 922.7 | 902.0 | 893.0 |
| 50° | 5970.8 | 2926.7 | 1047.8 | 975.6 | 1009.1 | 1015.6 | 929.1 | 924.0 | 912.3 | 890.4 | 881.4 |
| 52.5° | 6450.9 | 2916.4 | 1006.5 | 966.5 | 991.1 | 966.5 | 908.5 | 907.2 | 899.4 | 873.6 | 863.3 |
| 55° | 6992.9 | 2934.5 | 988.5 | 969.1 | 983.3 | 883.9 | 882.7 | 886.5 | 882.7 | 854.3 | 849.1 |
| 57.5° | 7724.5 | 2989.9 | 979.4 | 978.2 | 978.2 | 843.9 | 858.1 | 863.3 | 855.6 | 842.7 | 838.8 |
| 60° | 8427.8 | 2993.8 | 962.7 | 988.5 | 974.3 | 819.4 | 829.8 | 834.9 | 825.9 | 823.3 | 822.0 |
| 62.5° | 8692.4 | 2808.0 | 925.2 | 980.7 | 958.8 | 792.3 | 800.1 | 802.7 | 793.6 | 800.1 | 798.8 |
| 65° | 8298.8 | 2413.1 | 863.3 | 943.3 | 911.0 | 767.8 | 762.6 | 769.1 | 753.6 | 770.4 | 771.7 |
| 67.5° | 7368.4 | 1917.6 | 769.1 | 872.3 | 843.9 | 740.7 | 730.4 | 730.4 | 704.6 | 730.4 | 729.1 |
| 70° | 5941.2 | 1355.0 | 631.0 | 758.8 | 770.4 | 708.4 | 703.3 | 673.6 | 632.3 | 671.0 | 667.2 |
| 72.5° | 4503.6 | 973.0 | 496.8 | 600.1 | 663.3 | 663.3 | 664.6 | 614.2 | 566.5 | 584.6 | 569.1 |
| 75° | 2853.2 | 685.2 | 397.5 | 459.4 | 520.0 | 582.0 | 611.7 | 518.8 | 476.2 | 468.4 | 460.7 |
| 77.5° | 1285.3 | 450.4 | 309.7 | 352.3 | 369.1 | 459.4 | 558.8 | 446.5 | 388.4 | 371.6 | 366.5 |
| 80° | 538.1 | 280.0 | 220.7 | 249.1 | 227.1 | 385.8 | 492.9 | 347.1 | 285.2 | 262.0 | 245.2 |
| 82.5° | 236.1 | 166.5 | 140.7 | 134.2 | 141.9 | 286.5 | 367.8 | 231.0 | 178.1 | 241.3 | 243.9 |
| 85° | 99.4 | 87.7 | 72.3 | 65.8 | 58.1 | 109.7 | 172.9 | 90.3 | 111.0 | 63.2 | 51.6 |
| 87.5° | 23.2 | 25.8 | 19.4 | 12.9 | 7.7 | 1.3 | 0.0 | 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)