

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: P640665

Luminaire Tested: GWS-SA5E-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37704.3 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

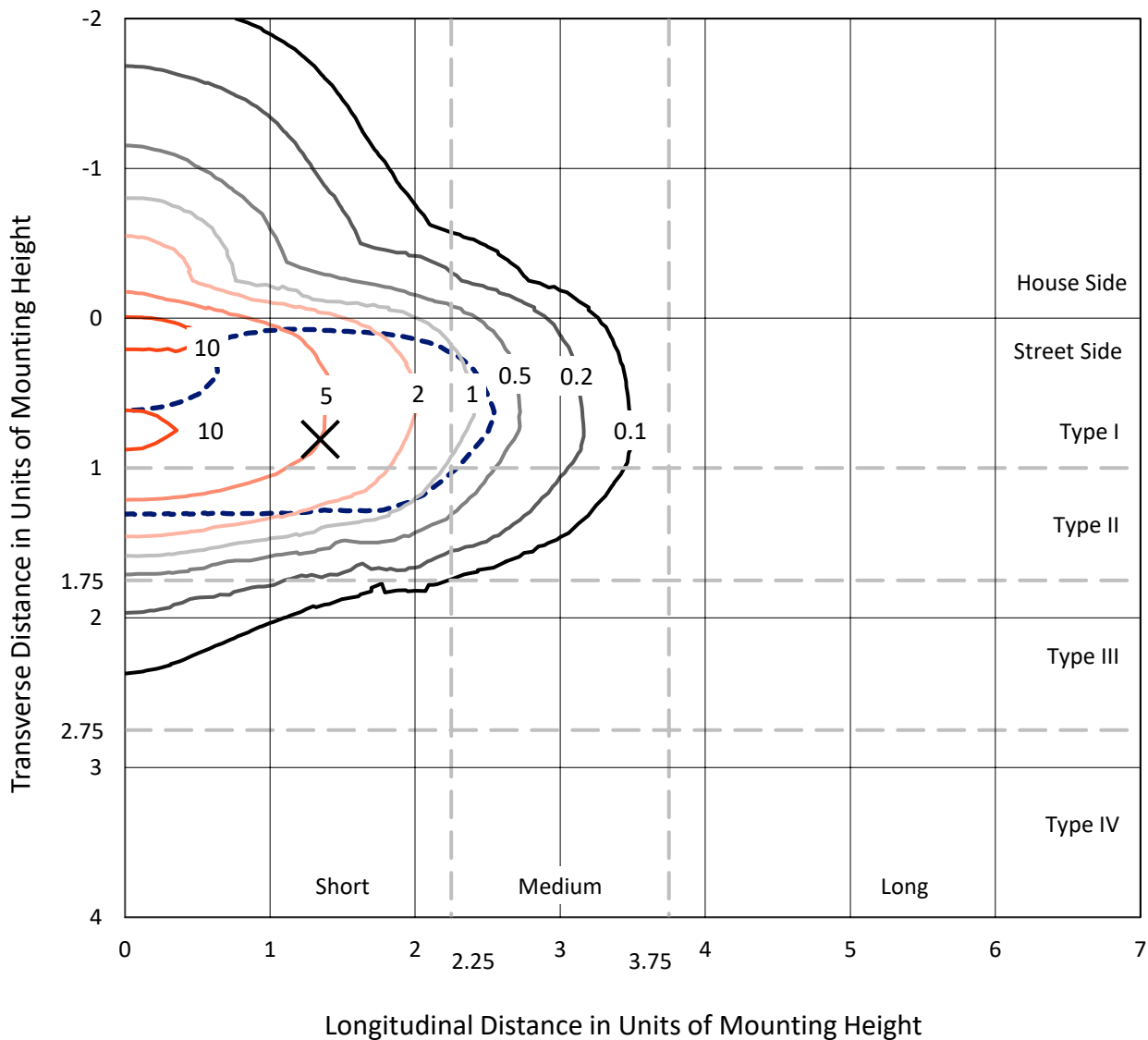
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

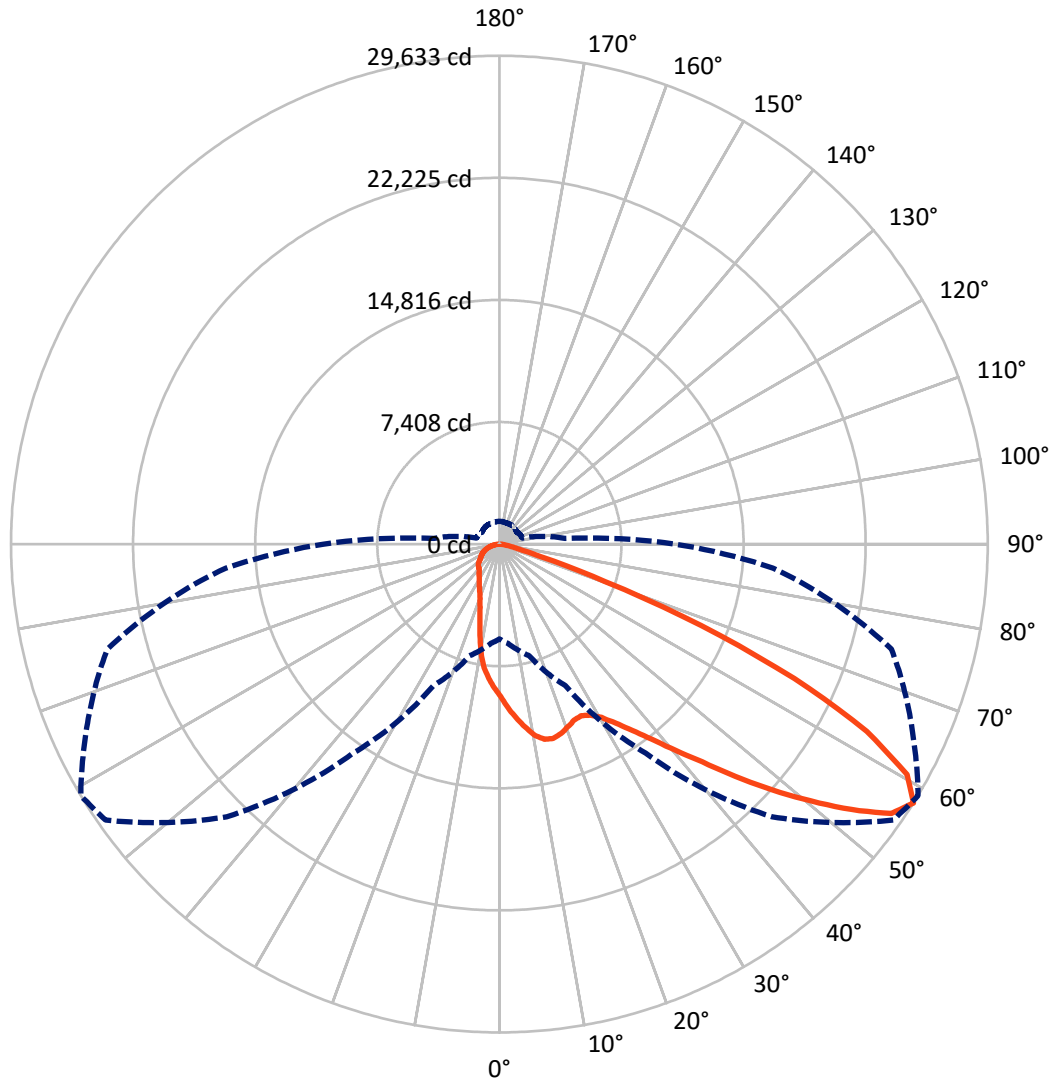
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5851.5 | 0.0 | 5851.5 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 31852.8 | 0.0 | 31852.8 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 37704.3 | 0.0 | 37704.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 859.4 | 2.3 |
| 10°-20° | 2177.7 | 5.8 |
| 20°-30° | 3530.1 | 9.4 |
| 30°-40° | 5678.7 | 15.1 |
| 40°-50° | 8818.4 | 23.4 |
| 50°-60° | 9498.6 | 25.2 |
| 60°-70° | 5512.6 | 14.6 |
| 70°-80° | 1439.1 | 3.8 |
| 80°-90° | 189.6 | 0.5 |
| 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° | 37704.3 | 100.0 |
| 0°-180° | 37704.3 | 100.0 |

Coefficient of Utilization



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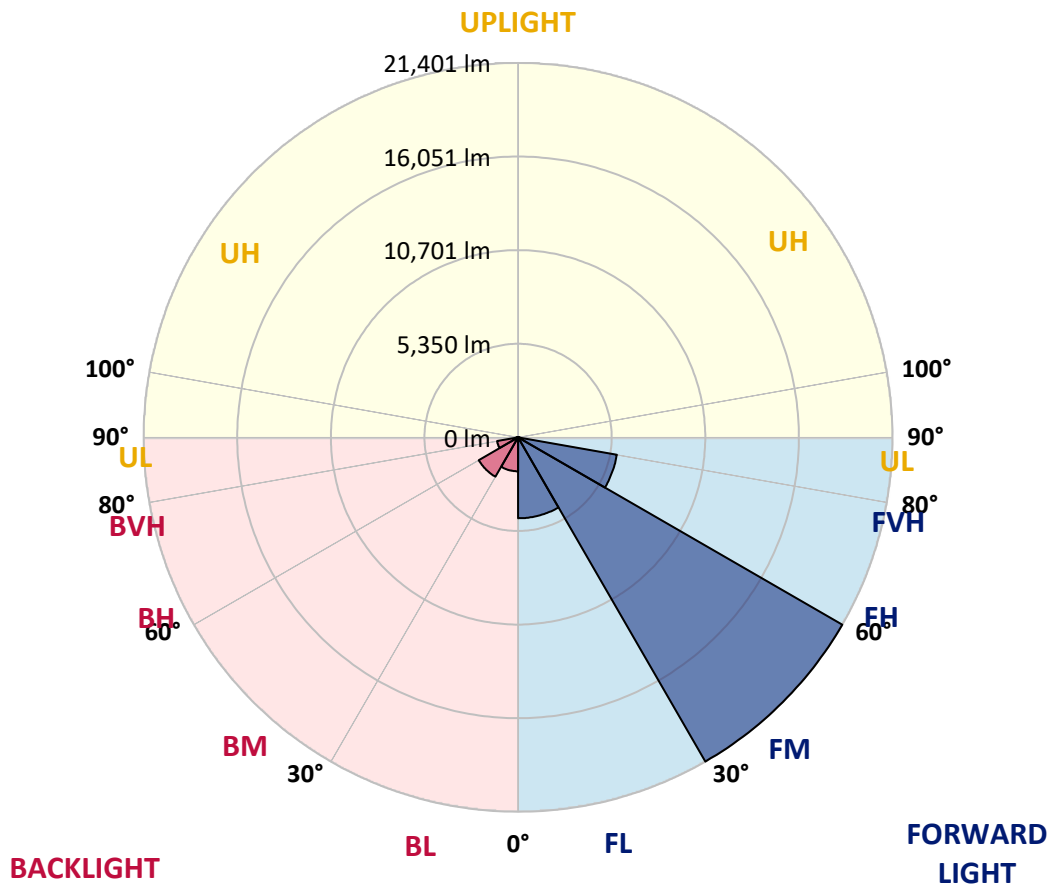
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4626.0 | 12.3 | | | |
| FM (30°-60°) | 21401.4 | 56.8 | | | |
| FH (60°-80°) | 5734.7 | 15.2 | | | G3/7500 |
| FVH (80°-90°) | 90.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1941.3 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2594.3 | 6.9 | B3/5000 | | |
| BH (60°-80°) | 1217.1 | 3.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 98.8 | 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° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 |
| 2.5° | 10497.9 | 10410.3 | 10471.3 | 10362.5 | 10317.4 | 10197.9 | 10044.0 | 9940.5 | 9781.2 | 9574.2 | 9393.7 |
| 5° | 11541.0 | 11480.0 | 11493.3 | 11376.5 | 11272.9 | 11073.9 | 10758.0 | 10582.8 | 10312.1 | 9895.3 | 9507.8 |
| 7.5° | 11509.2 | 11580.8 | 11620.7 | 11721.5 | 11750.7 | 11732.1 | 11448.1 | 11203.9 | 10906.6 | 10280.2 | 9696.3 |
| 10° | 10317.4 | 10452.8 | 10574.9 | 10919.9 | 11339.3 | 11870.2 | 11936.5 | 11790.5 | 11490.6 | 10771.3 | 9921.9 |
| 12.5° | 9019.4 | 9122.9 | 9231.8 | 9645.8 | 10288.2 | 11349.9 | 12069.2 | 12159.5 | 12040.0 | 11257.0 | 10176.7 |
| 15° | 8382.4 | 8430.2 | 8533.7 | 8807.1 | 9319.4 | 10497.9 | 11838.3 | 12233.8 | 12448.8 | 11772.0 | 10463.4 |
| 17.5° | 8355.8 | 8377.1 | 8427.5 | 8573.5 | 8929.2 | 9839.6 | 11421.6 | 12085.2 | 12770.0 | 12316.1 | 10797.8 |
| 20° | 8905.3 | 8849.5 | 8817.7 | 8815.0 | 8990.2 | 9619.3 | 11018.1 | 11846.3 | 12921.3 | 12873.5 | 11156.2 |
| 22.5° | 9667.1 | 9685.7 | 9616.6 | 9446.8 | 9425.5 | 9775.9 | 10816.4 | 11604.7 | 12966.4 | 13367.2 | 11487.9 |
| 25° | 10747.4 | 10840.3 | 10635.9 | 10312.1 | 10152.8 | 10229.8 | 10941.2 | 11530.4 | 12961.1 | 13778.6 | 11695.0 |
| 27.5° | 12008.2 | 12079.9 | 11872.8 | 11448.1 | 11119.0 | 10933.2 | 11312.8 | 11750.7 | 13006.2 | 14134.3 | 11819.7 |
| 30° | 13444.2 | 13468.1 | 13184.1 | 12738.1 | 12257.7 | 11859.6 | 11931.2 | 12204.6 | 13237.1 | 14601.5 | 11965.7 |
| 32.5° | 15198.7 | 15299.6 | 14869.6 | 14163.5 | 13492.0 | 12982.3 | 12762.0 | 12937.2 | 13736.2 | 15153.6 | 12191.3 |
| 35° | 17425.7 | 17460.2 | 16913.4 | 15902.1 | 14951.8 | 14245.8 | 13783.9 | 13876.8 | 14495.3 | 15926.0 | 12531.1 |
| 37.5° | 19525.3 | 19559.8 | 18978.5 | 18038.8 | 16679.8 | 15713.6 | 15044.7 | 15002.3 | 15466.8 | 17016.9 | 13085.9 |
| 40° | 20857.7 | 20955.9 | 20695.8 | 20106.6 | 18808.6 | 17505.3 | 16597.5 | 16451.5 | 16740.9 | 18352.0 | 13858.3 |
| 42.5° | 21574.4 | 21616.9 | 21611.6 | 21688.5 | 20916.1 | 19620.8 | 18349.4 | 18057.4 | 18251.2 | 19793.3 | 14638.6 |
| 45° | 21579.7 | 21685.9 | 21969.9 | 22710.5 | 22745.0 | 21938.0 | 20563.1 | 20106.6 | 19928.7 | 21245.3 | 15453.5 |
| 47.5° | 20613.5 | 20727.7 | 21508.0 | 22965.3 | 24040.3 | 24223.4 | 23214.8 | 22299.0 | 21550.5 | 22495.5 | 16122.4 |
| 50° | 17688.5 | 17975.1 | 19461.6 | 22038.9 | 24295.1 | 26054.9 | 25744.4 | 24502.1 | 22991.8 | 23461.6 | 16541.8 |
| 52.5° | 15148.3 | 15137.6 | 16053.4 | 19421.7 | 23230.7 | 26861.8 | 28191.6 | 26768.9 | 24417.2 | 24074.8 | 16648.0 |
| 55° | 11092.4 | 11153.5 | 12090.5 | 14853.6 | 20390.6 | 26081.5 | 29537.4 | 28855.2 | 26052.3 | 24401.3 | 16605.5 |
| 57.5° | 5751.9 | 6054.5 | 7015.4 | 9478.6 | 15493.3 | 23395.3 | 29179.1 | 29632.9 | 27713.9 | 24632.2 | 16661.2 |
| 60° | 2906.5 | 2848.1 | 3193.2 | 4525.6 | 8976.9 | 18272.4 | 26970.7 | 28417.3 | 28013.8 | 24812.7 | 16695.7 |
| 62.5° | 1940.3 | 1924.4 | 1828.8 | 2096.9 | 3668.3 | 10821.7 | 22991.8 | 25019.7 | 25930.2 | 24388.0 | 16255.1 |
| 65° | 1680.2 | 1648.3 | 1473.2 | 1462.5 | 1781.1 | 4488.5 | 16852.3 | 19668.6 | 21431.1 | 22500.8 | 15201.4 |
| 67.5° | 1513.0 | 1465.2 | 1287.4 | 1199.8 | 1279.4 | 1972.2 | 9497.2 | 13192.0 | 15825.1 | 19028.9 | 12892.1 |
| 70° | 1351.1 | 1327.2 | 1149.3 | 1021.9 | 1014.0 | 1202.4 | 3498.4 | 6808.4 | 9683.0 | 12982.3 | 9425.5 |
| 72.5° | 1210.4 | 1167.9 | 1016.6 | 894.5 | 833.5 | 852.0 | 1518.3 | 2622.5 | 5011.4 | 8098.4 | 5637.8 |
| 75° | 1048.5 | 1016.6 | 883.9 | 761.8 | 687.5 | 623.8 | 926.4 | 1213.0 | 2285.4 | 3848.8 | 2662.3 |
| 77.5° | 809.6 | 788.3 | 698.1 | 605.2 | 562.7 | 464.5 | 562.7 | 764.4 | 1056.4 | 1621.8 | 1385.6 |
| 80° | 469.8 | 483.1 | 520.2 | 472.5 | 414.1 | 331.8 | 366.3 | 440.6 | 634.4 | 878.6 | 785.7 |
| 82.5° | 236.2 | 252.2 | 337.1 | 273.4 | 246.9 | 193.8 | 217.7 | 260.1 | 331.8 | 485.7 | 307.9 |
| 85° | 18.6 | 18.6 | 61.0 | 69.0 | 84.9 | 69.0 | 87.6 | 106.2 | 151.3 | 193.8 | 103.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 | 13.3 | 23.9 | 45.1 | 29.2 |
| 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° | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 | 9255.7 |
| 2.5° | 9271.6 | 9136.2 | 8974.3 | 8841.6 | 8637.2 | 8528.4 | 8390.3 | 8220.5 | 8151.5 | 8119.6 | 8101.0 |
| 5° | 9290.2 | 9051.3 | 8706.2 | 8387.7 | 8034.7 | 7756.0 | 7445.4 | 7121.6 | 6935.8 | 6890.6 | 6858.8 |
| 7.5° | 9359.2 | 9024.7 | 8475.3 | 7949.7 | 7294.1 | 6686.3 | 6094.3 | 5507.7 | 5207.8 | 5093.7 | 5083.0 |
| 10° | 9454.7 | 9014.1 | 8241.7 | 7368.4 | 6261.6 | 5300.7 | 4607.9 | 4148.7 | 3955.0 | 3891.2 | 3870.0 |
| 12.5° | 9574.2 | 9006.1 | 7933.8 | 6561.5 | 5069.8 | 4162.0 | 3766.5 | 3692.2 | 3718.7 | 3713.4 | 3713.4 |
| 15° | 9725.5 | 9016.8 | 7562.2 | 5648.4 | 4100.9 | 3612.5 | 3620.5 | 3708.1 | 3790.4 | 3803.7 | 3803.7 |
| 17.5° | 9890.0 | 9006.1 | 7023.4 | 4732.7 | 3519.6 | 3482.5 | 3604.6 | 3726.7 | 3801.0 | 3811.6 | 3811.6 |
| 20° | 10067.9 | 8955.7 | 6343.9 | 3870.0 | 3264.8 | 3400.2 | 3532.9 | 3628.5 | 3673.6 | 3684.2 | 3684.2 |
| 22.5° | 10174.1 | 8812.4 | 5605.9 | 3275.4 | 3102.9 | 3270.1 | 3357.7 | 3455.9 | 3461.2 | 3376.3 | 3373.7 |
| 25° | 10158.1 | 8544.3 | 4764.5 | 2893.2 | 2930.4 | 3076.4 | 3187.9 | 3118.8 | 3033.9 | 2986.1 | 2978.2 |
| 27.5° | 10057.3 | 8140.8 | 3907.2 | 2603.9 | 2726.0 | 2890.6 | 2856.1 | 2797.7 | 2776.4 | 2723.3 | 2718.0 |
| 30° | 9929.9 | 7644.5 | 3137.4 | 2378.3 | 2513.7 | 2664.9 | 2611.9 | 2606.6 | 2585.3 | 2526.9 | 2526.9 |
| 32.5° | 9807.8 | 7132.2 | 2556.1 | 2211.1 | 2378.3 | 2388.9 | 2463.2 | 2468.5 | 2457.9 | 2357.0 | 2346.4 |
| 35° | 9773.2 | 6619.9 | 2163.3 | 2078.3 | 2245.6 | 2240.3 | 2346.4 | 2343.8 | 2160.6 | 2019.9 | 2017.3 |
| 37.5° | 9876.8 | 6099.7 | 1929.7 | 1969.5 | 2062.4 | 2131.4 | 2216.4 | 2062.4 | 2001.4 | 1916.4 | 1911.1 |
| 40° | 10097.1 | 5619.2 | 1810.3 | 1905.8 | 1945.6 | 2046.5 | 1913.8 | 1924.4 | 1908.5 | 1844.8 | 1836.8 |
| 42.5° | 10389.1 | 5210.5 | 1743.9 | 1884.6 | 1879.3 | 1905.8 | 1759.8 | 1802.3 | 1826.2 | 1778.4 | 1770.4 |
| 45° | 10670.4 | 4854.8 | 1709.4 | 1804.9 | 1831.5 | 1677.5 | 1648.3 | 1688.2 | 1725.3 | 1706.7 | 1698.8 |
| 47.5° | 10877.4 | 4546.9 | 1690.8 | 1696.1 | 1770.4 | 1600.6 | 1552.8 | 1571.4 | 1616.5 | 1624.5 | 1621.8 |
| 50° | 10941.2 | 4284.1 | 1669.6 | 1605.9 | 1589.9 | 1523.6 | 1486.4 | 1481.1 | 1534.2 | 1571.4 | 1576.7 |
| 52.5° | 10819.1 | 4050.5 | 1613.8 | 1526.2 | 1449.3 | 1459.9 | 1446.6 | 1420.1 | 1473.2 | 1523.6 | 1528.9 |
| 55° | 10638.6 | 3917.8 | 1526.2 | 1449.3 | 1359.0 | 1401.5 | 1406.8 | 1382.9 | 1417.4 | 1451.9 | 1451.9 |
| 57.5° | 10651.8 | 3994.8 | 1441.3 | 1377.6 | 1279.4 | 1335.1 | 1364.3 | 1353.7 | 1353.7 | 1380.3 | 1382.9 |
| 60° | 10739.4 | 4106.2 | 1385.6 | 1287.4 | 1199.8 | 1258.2 | 1324.5 | 1313.9 | 1290.0 | 1324.5 | 1324.5 |
| 62.5° | 10487.3 | 3957.6 | 1348.4 | 1199.8 | 1114.8 | 1183.8 | 1263.5 | 1258.2 | 1231.6 | 1287.4 | 1292.7 |
| 65° | 9744.0 | 3559.5 | 1305.9 | 1090.9 | 1029.9 | 1109.5 | 1178.5 | 1197.1 | 1173.2 | 1247.5 | 1260.8 |
| 67.5° | 8167.4 | 2994.1 | 1223.6 | 987.4 | 944.9 | 1019.3 | 1085.6 | 1112.2 | 1093.6 | 1181.2 | 1191.8 |
| 70° | 6089.0 | 2423.4 | 1093.6 | 873.3 | 841.4 | 907.8 | 968.8 | 979.4 | 982.1 | 1085.6 | 1096.2 |
| 72.5° | 3883.3 | 1884.6 | 921.1 | 745.9 | 722.0 | 772.4 | 817.5 | 860.0 | 878.6 | 976.8 | 974.1 |
| 75° | 2165.9 | 1401.5 | 740.6 | 631.7 | 589.3 | 629.1 | 682.2 | 732.6 | 785.7 | 929.0 | 944.9 |
| 77.5° | 1247.5 | 984.8 | 586.6 | 507.0 | 456.5 | 499.0 | 544.1 | 615.8 | 775.1 | 899.8 | 883.9 |
| 80° | 703.4 | 639.7 | 443.3 | 371.6 | 339.8 | 371.6 | 406.1 | 541.5 | 610.5 | 663.6 | 671.5 |
| 82.5° | 329.1 | 358.3 | 302.6 | 228.3 | 228.3 | 249.5 | 281.4 | 419.4 | 461.9 | 376.9 | 329.1 |
| 85° | 119.4 | 161.9 | 148.6 | 116.8 | 103.5 | 100.9 | 175.2 | 238.9 | 148.6 | 132.7 | 114.1 |
| 87.5° | 31.9 | 45.1 | 42.5 | 29.2 | 15.9 | 13.3 | 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)