

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: P640375

Luminaire Tested: GWS-SA5D-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29275 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

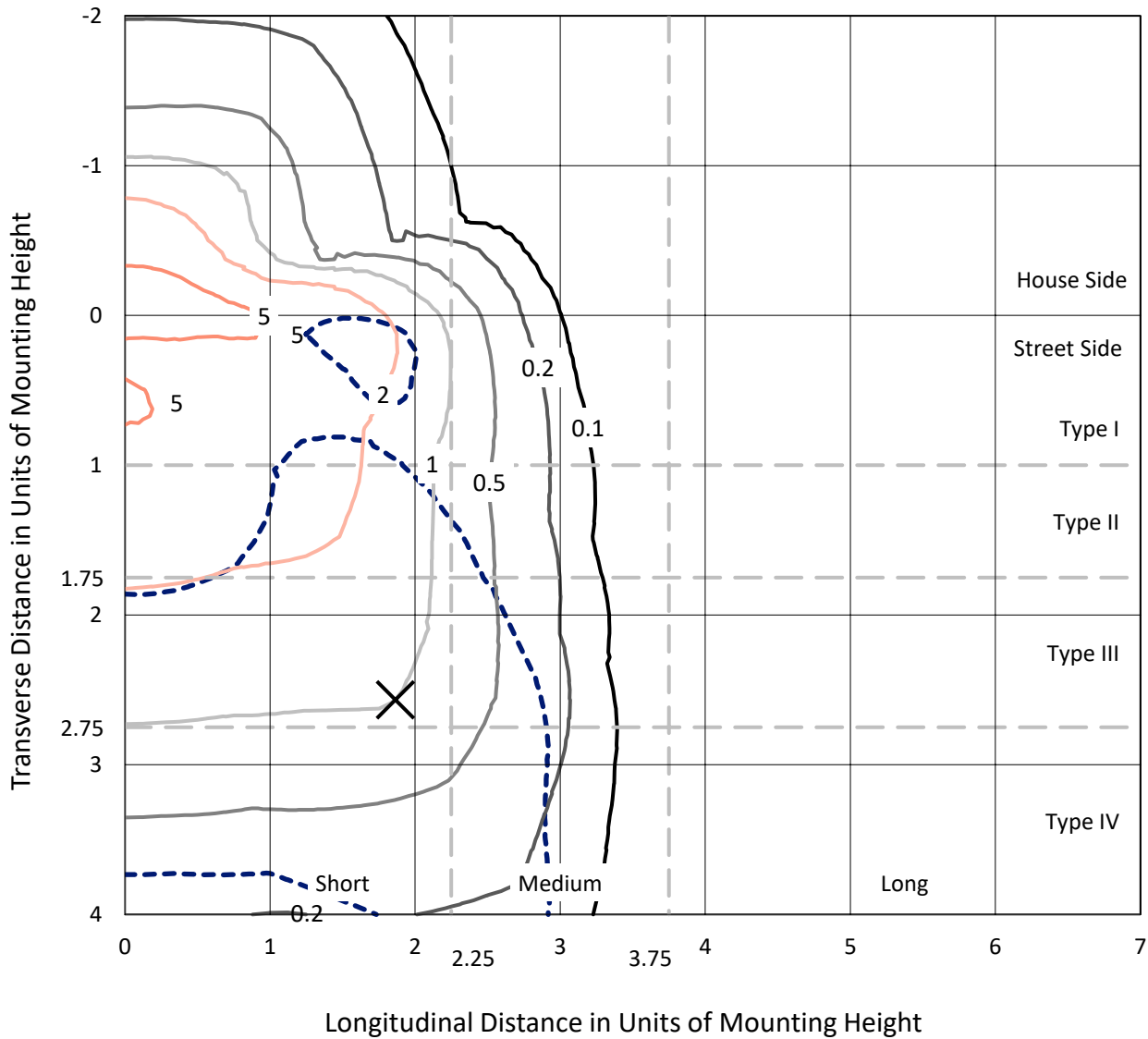
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

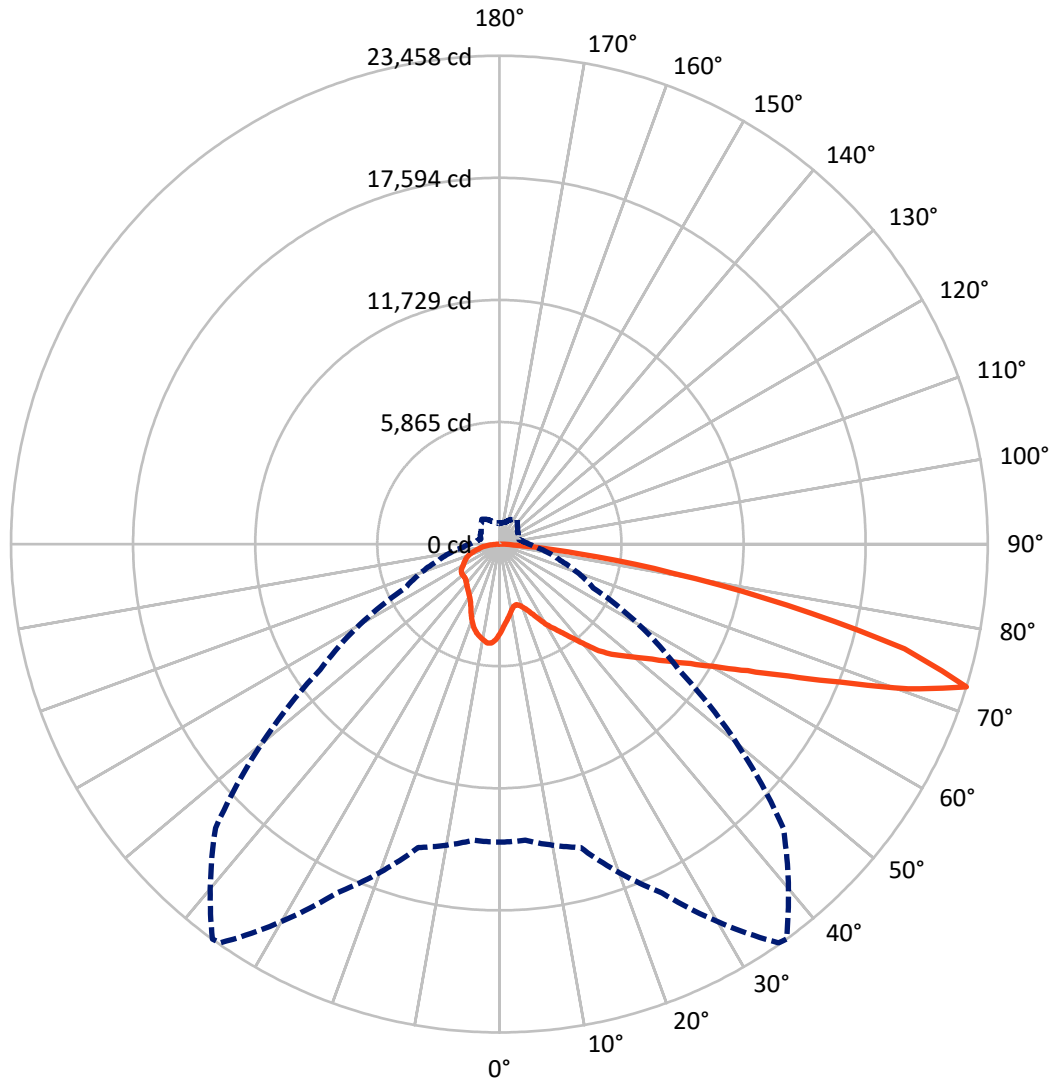
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GWS-SA5D-760-U-T4FT-W

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6749.2 | 0.0 | 6749.2 |
| | % Fixture | 23.1 | 0.0 | 23.1 |
| Street Side | Lumens | 22525.8 | 0.0 | 22525.8 |
| | % Fixture | 76.9 | 0.0 | 76.9 |
| Total | Lumens | 29275.0 | 0.0 | 29275.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 400.5 | 1.4 |
| 10°-20° | 1129.9 | 3.9 |
| 20°-30° | 1871.3 | 6.4 |
| 30°-40° | 2802.4 | 9.6 |
| 40°-50° | 4088.5 | 14.0 |
| 50°-60° | 5819.2 | 19.9 |
| 60°-70° | 7352.1 | 25.1 |
| 70°-80° | 5239.0 | 17.9 |
| 80°-90° | 571.9 | 2.0 |
| 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° | 29275.0 | 100.0 |
| 0°-180° | 29275.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P640375

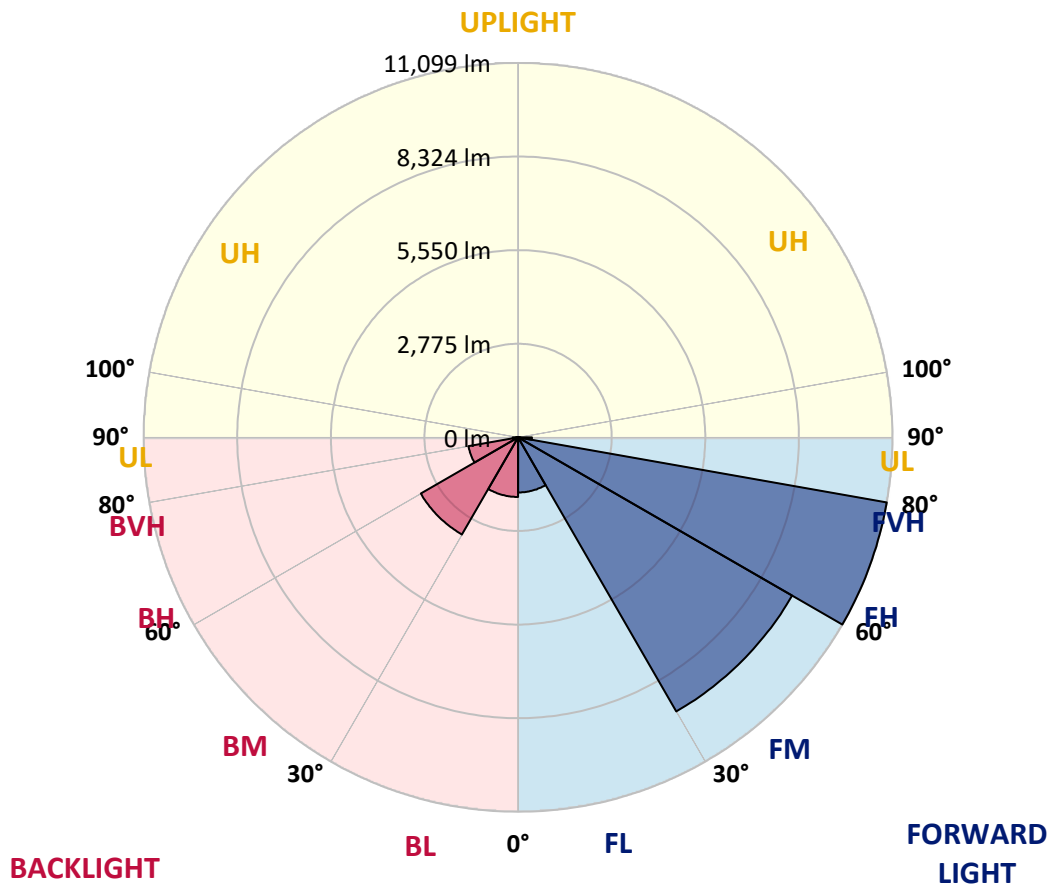
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1634.3 | 5.6 | | | |
| FM (30°-60°) | 9381.9 | 32.0 | | | |
| FH (60°-80°) | 11099.1 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 410.5 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1767.4 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3328.3 | 11.4 | B3/5000 | | |
| BH (60°-80°) | 1492.1 | 5.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 161.4 | 0.6 | | | 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 IV Short





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CATALOG NUMBER: GWS-SA5D-760-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 |
| 2.5° | 3908.7 | 3902.1 | 3889.1 | 3928.2 | 3967.3 | 3963.0 | 4017.3 | 4069.4 | 4125.9 | 4184.6 | 4262.8 |
| 5° | 3595.8 | 3591.4 | 3580.6 | 3639.2 | 3697.9 | 3695.7 | 3784.8 | 3869.5 | 3984.7 | 4110.7 | 4267.1 |
| 7.5° | 3282.9 | 3272.1 | 3287.3 | 3361.1 | 3443.7 | 3452.4 | 3574.1 | 3713.1 | 3880.4 | 4069.4 | 4291.0 |
| 10° | 3007.0 | 3004.8 | 3011.3 | 3093.9 | 3217.7 | 3226.4 | 3382.9 | 3576.2 | 3797.8 | 4049.9 | 4345.4 |
| 12.5° | 2935.3 | 2930.9 | 2913.6 | 2954.8 | 3048.3 | 3061.3 | 3232.9 | 3469.8 | 3741.4 | 4060.7 | 4419.2 |
| 15° | 3052.6 | 3041.8 | 2980.9 | 2961.4 | 3007.0 | 3017.9 | 3163.4 | 3406.8 | 3708.8 | 4080.3 | 4512.7 |
| 17.5° | 3254.7 | 3248.2 | 3133.0 | 3052.6 | 3083.0 | 3091.7 | 3200.4 | 3395.9 | 3700.1 | 4119.4 | 4627.8 |
| 20° | 3550.2 | 3521.9 | 3341.6 | 3219.9 | 3219.9 | 3232.9 | 3298.1 | 3443.7 | 3710.9 | 4167.2 | 4758.2 |
| 22.5° | 3941.2 | 3884.8 | 3630.6 | 3465.4 | 3422.0 | 3439.4 | 3467.6 | 3563.2 | 3756.6 | 4247.6 | 4921.1 |
| 25° | 4380.1 | 4328.0 | 4026.0 | 3793.5 | 3732.7 | 3739.2 | 3715.3 | 3732.7 | 3856.5 | 4358.4 | 5123.2 |
| 27.5° | 4847.3 | 4812.5 | 4490.9 | 4195.4 | 4099.8 | 4099.8 | 4015.1 | 3973.8 | 3995.6 | 4484.4 | 5349.1 |
| 30° | 5264.4 | 5216.6 | 4945.0 | 4621.3 | 4495.3 | 4495.3 | 4334.5 | 4245.4 | 4193.3 | 4638.7 | 5651.1 |
| 32.5° | 5483.8 | 5455.6 | 5275.3 | 5027.6 | 4873.3 | 4849.4 | 4710.4 | 4606.1 | 4484.4 | 4866.8 | 6059.6 |
| 35° | 5770.6 | 5764.1 | 5655.5 | 5462.1 | 5266.6 | 5231.8 | 5136.2 | 5053.7 | 4842.9 | 5151.4 | 6602.8 |
| 37.5° | 6131.3 | 6120.4 | 6103.1 | 5987.9 | 5753.3 | 5746.7 | 5662.0 | 5562.1 | 5288.3 | 5562.1 | 7261.1 |
| 40° | 6535.4 | 6515.9 | 6494.1 | 6492.0 | 6350.7 | 6326.8 | 6320.3 | 6207.4 | 5825.0 | 6057.4 | 7947.7 |
| 42.5° | 7091.6 | 7024.3 | 6820.0 | 6911.3 | 7015.6 | 6993.9 | 7076.4 | 6907.0 | 6494.1 | 6646.2 | 8597.3 |
| 45° | 7776.0 | 7610.9 | 7206.8 | 7232.9 | 7495.8 | 7539.2 | 7826.0 | 7784.7 | 7230.7 | 7326.3 | 9281.7 |
| 47.5° | 8186.7 | 8043.3 | 7667.4 | 7645.7 | 7973.7 | 8028.1 | 8651.6 | 8729.8 | 8023.7 | 8145.4 | 10126.9 |
| 50° | 8523.4 | 8423.5 | 8115.0 | 8145.4 | 8493.0 | 8547.3 | 9470.7 | 9638.0 | 8771.1 | 8984.0 | 11108.9 |
| 52.5° | 8929.7 | 8786.3 | 8547.3 | 8690.7 | 9116.6 | 9181.8 | 10381.1 | 10561.4 | 9444.6 | 9905.3 | 12125.7 |
| 55° | 9157.9 | 9099.2 | 9103.5 | 9323.0 | 9857.5 | 9946.5 | 11334.9 | 11304.5 | 10061.7 | 10693.9 | 12890.5 |
| 57.5° | 9683.6 | 9661.9 | 9861.8 | 9944.4 | 10722.2 | 10837.3 | 12288.7 | 12028.0 | 10622.2 | 11304.5 | 13257.7 |
| 60° | 10611.4 | 10557.1 | 10730.9 | 10856.9 | 11791.1 | 11954.1 | 13353.3 | 12736.3 | 11002.5 | 11758.6 | 13133.9 |
| 62.5° | 11915.0 | 11847.6 | 11854.1 | 12054.0 | 13222.9 | 13394.6 | 14537.4 | 13327.2 | 11119.8 | 11828.1 | 12349.5 |
| 65° | 13535.8 | 13438.0 | 13327.2 | 13598.8 | 15124.0 | 15267.4 | 15825.8 | 13757.4 | 10839.5 | 11158.9 | 10711.3 |
| 67.5° | 15245.7 | 15165.3 | 15035.0 | 15604.2 | 17585.7 | 17672.6 | 17270.6 | 13720.5 | 9950.9 | 9368.6 | 7513.1 |
| 70° | 15345.6 | 15365.2 | 15982.2 | 18041.9 | 20799.1 | 20820.8 | 18637.3 | 12977.4 | 8058.5 | 6072.6 | 3743.5 |
| 72.5° | 14315.8 | 14283.2 | 15087.1 | 18487.3 | 23384.6 | 23458.4 | 19282.5 | 10513.6 | 4979.8 | 3028.7 | 1755.5 |
| 75° | 11628.2 | 11684.7 | 12529.9 | 16175.6 | 20043.0 | 20108.2 | 15719.3 | 6198.7 | 2366.0 | 1481.8 | 1123.3 |
| 77.5° | 5005.9 | 5320.9 | 6987.3 | 11395.7 | 14354.9 | 14152.8 | 8101.9 | 2511.6 | 1262.3 | 1055.9 | 860.4 |
| 80° | 1444.8 | 1568.7 | 2489.9 | 5418.7 | 8601.6 | 8449.6 | 3206.9 | 940.8 | 879.9 | 793.0 | 617.0 |
| 82.5° | 467.1 | 517.1 | 912.5 | 2157.5 | 3854.3 | 3850.0 | 1216.7 | 556.2 | 575.8 | 538.8 | 397.6 |
| 85° | 130.4 | 149.9 | 280.3 | 654.0 | 1192.8 | 1168.9 | 352.0 | 262.9 | 306.3 | 310.7 | 197.7 |
| 87.5° | 0.0 | 0.0 | 2.2 | 4.3 | 4.3 | 4.3 | 8.7 | 39.1 | 89.1 | 113.0 | 80.4 |
| 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° | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 | 4284.5 |
| 2.5° | 4310.6 | 4304.1 | 4393.2 | 4462.7 | 4527.9 | 4571.3 | 4584.4 | 4593.0 | 4610.4 | 4619.1 | 4610.4 |
| 5° | 4341.0 | 4373.6 | 4521.3 | 4630.0 | 4716.9 | 4769.0 | 4771.2 | 4766.9 | 4779.9 | 4769.0 | 4762.5 |
| 7.5° | 4406.2 | 4469.2 | 4656.1 | 4771.2 | 4827.7 | 4829.9 | 4777.7 | 4716.9 | 4686.5 | 4660.4 | 4651.7 |
| 10° | 4493.1 | 4586.5 | 4790.8 | 4866.8 | 4849.4 | 4769.0 | 4653.9 | 4558.3 | 4504.0 | 4464.9 | 4456.2 |
| 12.5° | 4612.6 | 4716.9 | 4910.3 | 4908.1 | 4799.5 | 4656.1 | 4521.3 | 4406.2 | 4328.0 | 4282.4 | 4267.1 |
| 15° | 4725.6 | 4858.1 | 4997.2 | 4895.1 | 4723.4 | 4549.6 | 4375.8 | 4221.5 | 4117.2 | 4045.5 | 4032.5 |
| 17.5° | 4864.6 | 5005.9 | 5060.2 | 4853.8 | 4627.8 | 4404.0 | 4171.5 | 3969.5 | 3828.3 | 3743.5 | 3737.0 |
| 20° | 5025.4 | 5151.4 | 5090.6 | 4782.1 | 4504.0 | 4210.7 | 3895.6 | 3669.7 | 3517.6 | 3435.0 | 3441.5 |
| 22.5° | 5212.3 | 5303.5 | 5099.3 | 4684.3 | 4332.3 | 3936.9 | 3584.9 | 3367.7 | 3265.5 | 3222.1 | 3224.3 |
| 25° | 5412.1 | 5470.8 | 5084.1 | 4551.8 | 4069.4 | 3602.3 | 3265.5 | 3165.6 | 3156.9 | 3146.0 | 3150.4 |
| 27.5° | 5649.0 | 5635.9 | 5038.4 | 4364.9 | 3715.3 | 3213.4 | 3041.8 | 3067.8 | 3102.6 | 3098.2 | 3102.6 |
| 30° | 5966.2 | 5842.3 | 4979.8 | 4106.4 | 3293.8 | 2887.5 | 2909.2 | 2983.1 | 3028.7 | 3033.1 | 3046.1 |
| 32.5° | 6329.0 | 6070.5 | 4886.4 | 3754.4 | 2891.8 | 2705.0 | 2785.4 | 2874.5 | 2928.8 | 2939.6 | 2957.0 |
| 35° | 6761.4 | 6331.2 | 4721.2 | 3315.5 | 2602.9 | 2596.4 | 2670.2 | 2731.1 | 2789.7 | 2794.1 | 2794.1 |
| 37.5° | 7258.9 | 6591.9 | 4458.3 | 2831.0 | 2424.7 | 2502.9 | 2572.5 | 2585.5 | 2600.7 | 2587.7 | 2594.2 |
| 40° | 7715.2 | 6843.9 | 4084.6 | 2389.9 | 2279.1 | 2420.4 | 2479.0 | 2435.6 | 2387.8 | 2355.2 | 2361.7 |
| 42.5° | 8097.6 | 7015.6 | 3589.3 | 2081.4 | 2131.4 | 2346.5 | 2392.1 | 2303.0 | 2209.6 | 2148.8 | 2157.5 |
| 45° | 8527.8 | 7174.2 | 3007.0 | 1872.9 | 2005.4 | 2294.4 | 2324.8 | 2209.6 | 2090.1 | 1998.9 | 1985.8 |
| 47.5° | 9120.9 | 7497.9 | 2489.9 | 1727.3 | 1916.3 | 2266.1 | 2316.1 | 2159.6 | 2003.2 | 1866.3 | 1851.1 |
| 50° | 9853.1 | 7956.4 | 2057.5 | 1631.7 | 1875.0 | 2250.9 | 2313.9 | 2105.3 | 1918.5 | 1757.7 | 1746.8 |
| 52.5° | 10652.7 | 8403.9 | 1738.1 | 1557.8 | 1833.7 | 2205.3 | 2303.0 | 2044.5 | 1829.4 | 1655.6 | 1642.5 |
| 55° | 11185.0 | 8579.9 | 1523.0 | 1488.3 | 1766.4 | 2133.6 | 2259.6 | 1985.8 | 1694.7 | 1536.1 | 1516.5 |
| 57.5° | 11341.4 | 8354.0 | 1373.1 | 1425.3 | 1679.5 | 2033.6 | 2177.0 | 1862.0 | 1612.1 | 1486.1 | 1470.9 |
| 60° | 11072.0 | 7784.7 | 1279.7 | 1373.1 | 1583.9 | 1905.4 | 2033.6 | 1790.3 | 1546.9 | 1434.0 | 1423.1 |
| 62.5° | 10311.5 | 6907.0 | 1208.0 | 1318.8 | 1486.1 | 1770.7 | 1942.4 | 1703.4 | 1475.3 | 1386.2 | 1371.0 |
| 65° | 8782.0 | 5664.2 | 1149.3 | 1262.3 | 1392.7 | 1642.5 | 1842.4 | 1616.5 | 1397.0 | 1329.7 | 1312.3 |
| 67.5° | 6142.2 | 3978.2 | 1086.3 | 1195.0 | 1299.3 | 1518.7 | 1738.1 | 1536.1 | 1316.6 | 1266.7 | 1249.3 |
| 70° | 3002.6 | 2109.7 | 1010.3 | 1116.8 | 1199.3 | 1392.7 | 1633.9 | 1438.3 | 1210.2 | 1181.9 | 1158.0 |
| 72.5° | 1429.6 | 1179.8 | 921.2 | 1010.3 | 1062.4 | 1225.4 | 1460.0 | 1297.1 | 1084.2 | 1023.3 | 982.1 |
| 75° | 958.2 | 838.7 | 803.9 | 884.3 | 897.3 | 1027.7 | 1251.5 | 1118.9 | 956.0 | 886.5 | 851.7 |
| 77.5° | 725.7 | 640.9 | 675.7 | 747.4 | 721.3 | 845.2 | 1029.9 | 997.3 | 862.6 | 799.5 | 782.2 |
| 80° | 510.6 | 467.1 | 536.7 | 580.1 | 560.6 | 719.2 | 927.7 | 853.9 | 710.5 | 640.9 | 627.9 |
| 82.5° | 321.6 | 312.9 | 395.4 | 401.9 | 408.5 | 569.2 | 762.6 | 671.4 | 551.9 | 454.1 | 421.5 |
| 85° | 160.8 | 178.2 | 236.8 | 236.8 | 234.6 | 293.3 | 434.5 | 378.0 | 297.7 | 236.8 | 230.3 |
| 87.5° | 54.3 | 76.0 | 102.1 | 82.6 | 63.0 | 50.0 | 56.5 | 69.5 | 73.9 | 71.7 | 71.7 |
| 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)