

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532570

Luminaire Tested: **GALN-SA8A-722-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-722-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24495 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

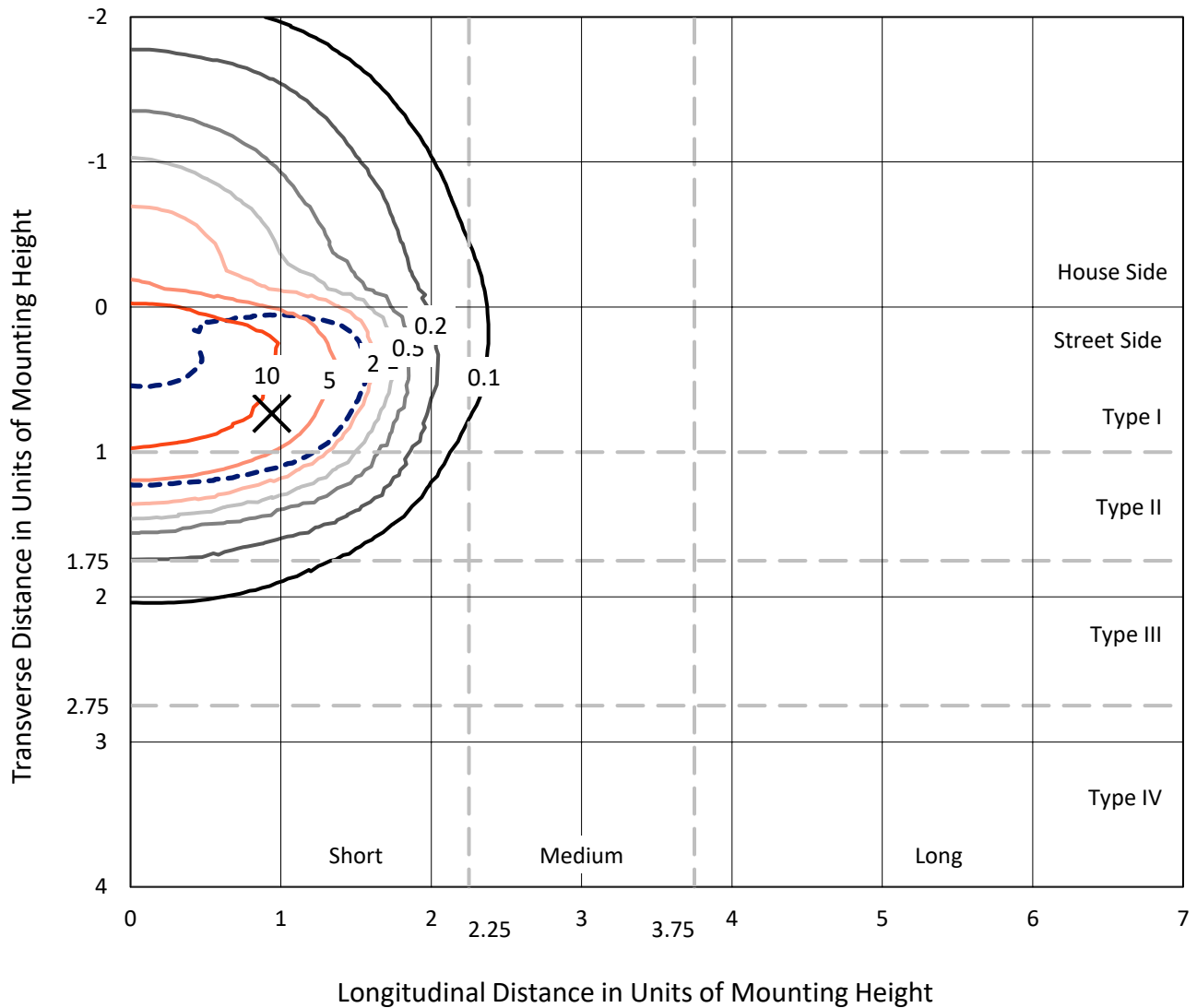
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

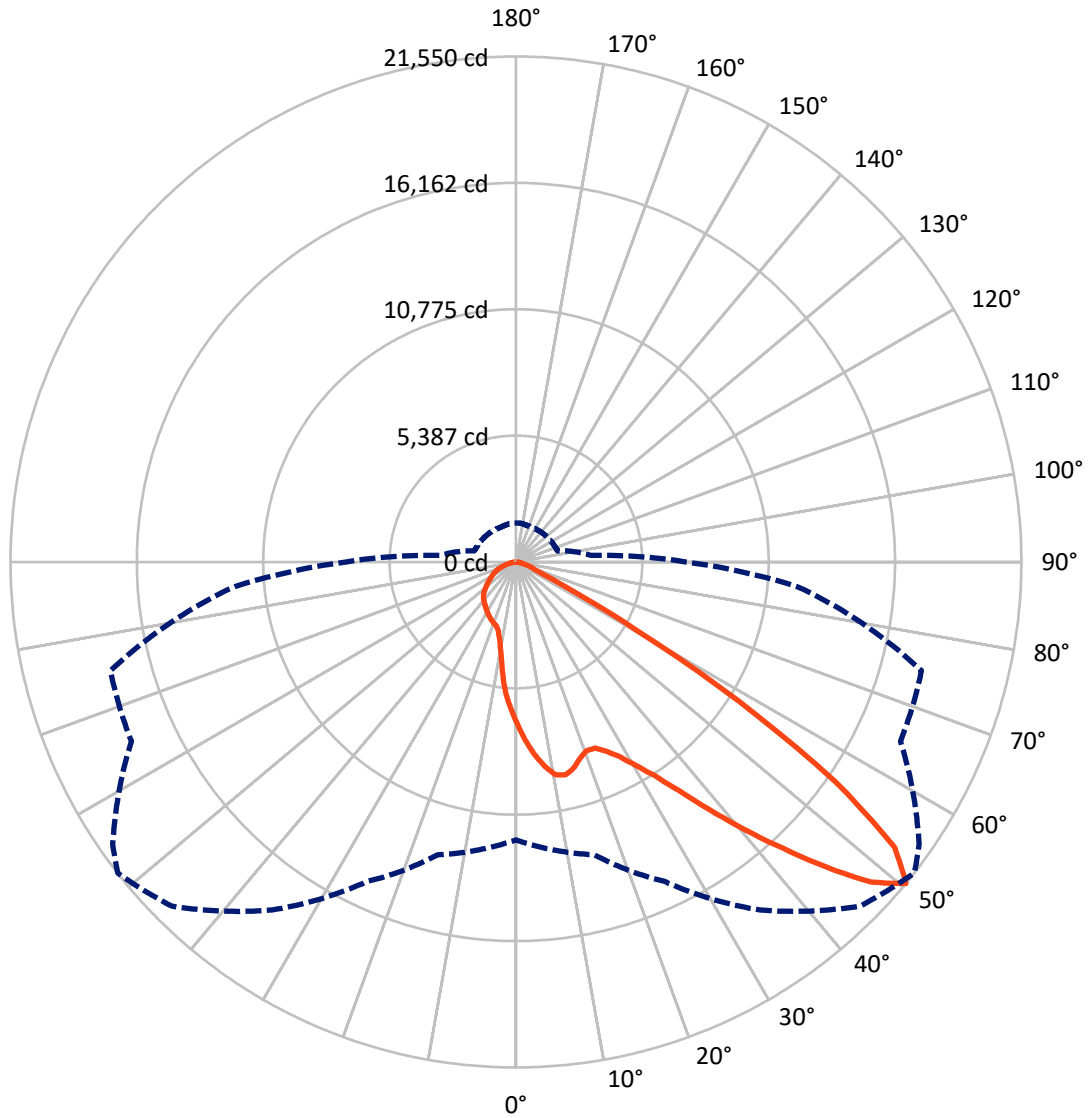
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4604.5 | 0.0 | 4604.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 19890.5 | 0.0 | 19890.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 24495.0 | 0.0 | 24495.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 636.4 | 2.6 |
| 10°-20° | 1705.7 | 7.0 |
| 20°-30° | 2873.2 | 11.7 |
| 30°-40° | 4821.5 | 19.7 |
| 40°-50° | 7375.8 | 30.1 |
| 50°-60° | 5377.5 | 22.0 |
| 60°-70° | 1196.8 | 4.9 |
| 70°-80° | 431.7 | 1.8 |
| 80°-90° | 76.4 | 0.3 |
| 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° | 24495.0 | 100.0 |
| 0°-180° | 24495.0 | 100.0 |

Coefficient of Utilization

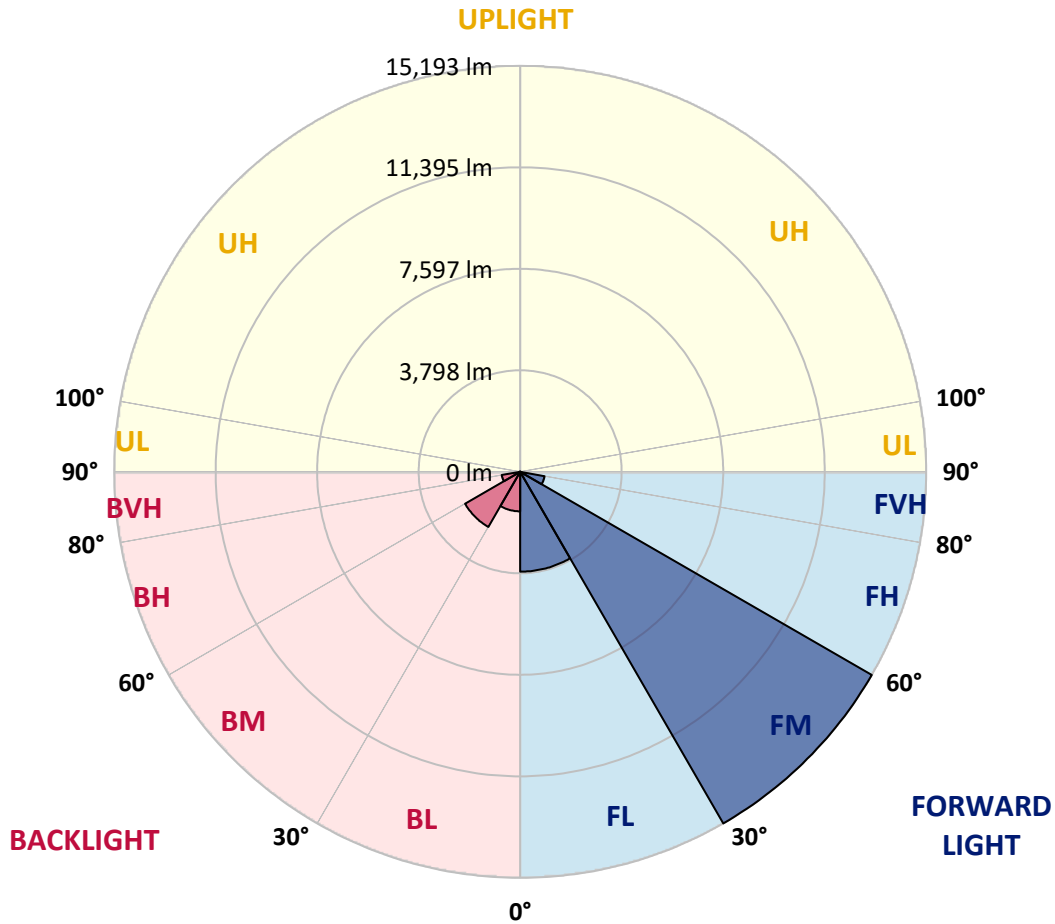


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3736.3 | 15.3 | | | |
| FM (30°-60°) | 15193.0 | 62.0 | | | |
| FH (60°-80°) | 926.9 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 34.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1479.1 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2381.8 | 9.7 | B2/2500 | | |
| BH (60°-80°) | 701.5 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 42.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 |
| 2.5° | 8129.8 | 7973.4 | 7991.1 | 7878.9 | 7757.9 | 7722.4 | 7598.5 | 7480.4 | 7391.8 | 7202.9 | 7028.7 |
| 5° | 8885.5 | 8838.3 | 8767.4 | 8678.9 | 8587.4 | 8363.0 | 8236.1 | 8088.5 | 7763.8 | 7471.5 | 7182.2 |
| 7.5° | 8994.8 | 8985.9 | 9024.3 | 9024.3 | 9056.7 | 8971.1 | 8791.1 | 8687.7 | 8342.4 | 7867.1 | 7329.8 |
| 10° | 8227.2 | 8253.8 | 8439.8 | 8681.8 | 9018.4 | 9251.6 | 9222.1 | 9195.5 | 8817.6 | 8168.2 | 7504.0 |
| 12.5° | 7616.2 | 7557.1 | 7666.4 | 7873.0 | 8377.8 | 8941.6 | 9322.4 | 9325.4 | 9228.0 | 8649.4 | 7630.9 |
| 15° | 7270.8 | 7312.1 | 7341.6 | 7439.0 | 7819.9 | 8472.2 | 9142.4 | 9340.1 | 9768.2 | 8988.8 | 7831.7 |
| 17.5° | 7492.2 | 7353.4 | 7347.5 | 7371.2 | 7566.0 | 8056.0 | 8808.8 | 9148.3 | 10063.4 | 9425.7 | 8079.6 |
| 20° | 7781.5 | 7778.5 | 7695.9 | 7666.4 | 7663.4 | 8100.3 | 8590.3 | 9050.8 | 10219.8 | 9992.5 | 8330.6 |
| 22.5° | 8289.2 | 8289.2 | 8153.4 | 8088.5 | 7949.7 | 8306.9 | 8619.8 | 8932.8 | 10479.6 | 10382.2 | 8451.6 |
| 25° | 9139.4 | 9000.7 | 8767.4 | 8608.0 | 8528.3 | 8655.3 | 8932.8 | 9213.2 | 10706.9 | 10795.5 | 8702.5 |
| 27.5° | 9924.6 | 9706.2 | 9591.1 | 9316.5 | 9210.2 | 9136.4 | 9390.3 | 9673.7 | 10972.6 | 11439.0 | 8838.3 |
| 30° | 10816.1 | 10777.8 | 10571.1 | 10216.9 | 9954.2 | 9818.4 | 10051.6 | 10332.0 | 11459.7 | 12097.3 | 9151.2 |
| 32.5° | 12410.2 | 12061.9 | 11781.4 | 11347.5 | 10919.5 | 10630.2 | 10860.4 | 11046.4 | 12268.5 | 12785.1 | 9493.6 |
| 35° | 14131.2 | 14019.1 | 13534.9 | 12752.7 | 12097.3 | 11837.5 | 11973.3 | 12112.1 | 13210.2 | 13836.0 | 10069.3 |
| 37.5° | 15822.7 | 15669.2 | 15270.7 | 14612.4 | 13815.4 | 13287.0 | 13384.4 | 13546.7 | 14267.0 | 15253.0 | 10771.9 |
| 40° | 17039.0 | 16850.0 | 16649.3 | 16551.9 | 15760.7 | 15037.5 | 14981.4 | 15022.7 | 15695.8 | 16581.4 | 11551.2 |
| 42.5° | 17127.5 | 17360.7 | 17422.7 | 17815.3 | 17629.4 | 17036.0 | 16690.6 | 16699.5 | 17059.6 | 17895.0 | 12339.4 |
| 45° | 16941.5 | 16726.0 | 17183.6 | 18255.2 | 18869.2 | 19146.7 | 18565.1 | 18491.3 | 17903.9 | 18656.7 | 12732.0 |
| 47.5° | 14990.3 | 15049.3 | 15822.7 | 17517.2 | 19291.3 | 20531.2 | 20395.4 | 20150.4 | 18355.6 | 18630.1 | 12670.0 |
| 50° | 11849.3 | 12206.5 | 12923.9 | 15034.5 | 18110.5 | 20749.6 | 21549.6 | 20982.8 | 18086.9 | 17898.0 | 12038.3 |
| 52.5° | 7890.7 | 8038.3 | 8510.6 | 11235.3 | 14562.2 | 18547.4 | 20221.2 | 20351.1 | 17839.0 | 16938.6 | 11238.3 |
| 55° | 3512.9 | 3501.1 | 4165.3 | 5868.6 | 9136.4 | 14113.5 | 16522.4 | 17313.5 | 16885.5 | 15961.5 | 10458.9 |
| 57.5° | 1487.8 | 1538.0 | 1809.6 | 2535.8 | 4492.9 | 8516.5 | 11194.0 | 11887.7 | 12985.9 | 13106.9 | 8023.5 |
| 60° | 1006.6 | 1012.5 | 1086.3 | 1269.4 | 1880.4 | 4000.0 | 5871.5 | 6704.0 | 7489.2 | 7436.1 | 4256.8 |
| 62.5° | 791.1 | 811.8 | 867.9 | 941.7 | 1115.9 | 1815.5 | 2627.3 | 3090.7 | 3140.9 | 2642.0 | 1614.7 |
| 65° | 676.0 | 679.0 | 735.0 | 797.0 | 873.8 | 1056.8 | 1266.4 | 1290.0 | 1304.8 | 1257.6 | 1186.7 |
| 67.5° | 557.9 | 563.8 | 608.1 | 679.0 | 749.8 | 808.8 | 867.9 | 897.4 | 965.3 | 1098.1 | 1080.4 |
| 70° | 442.8 | 451.7 | 490.0 | 549.1 | 614.0 | 649.4 | 723.2 | 749.8 | 811.8 | 915.1 | 956.4 |
| 72.5° | 336.5 | 339.5 | 372.0 | 413.3 | 472.3 | 507.7 | 569.7 | 599.3 | 640.6 | 729.1 | 767.5 |
| 75° | 242.1 | 250.9 | 274.5 | 295.2 | 304.1 | 327.7 | 386.7 | 419.2 | 478.2 | 516.6 | 519.6 |
| 77.5° | 126.9 | 132.8 | 138.7 | 138.7 | 168.3 | 212.5 | 250.9 | 268.6 | 310.0 | 339.5 | 324.7 |
| 80° | 50.2 | 53.1 | 67.9 | 91.5 | 118.1 | 153.5 | 180.1 | 188.9 | 224.4 | 242.1 | 250.9 |
| 82.5° | 29.5 | 32.5 | 44.3 | 64.9 | 85.6 | 109.2 | 129.9 | 138.7 | 162.4 | 183.0 | 188.9 |
| 85° | 14.8 | 17.7 | 26.6 | 41.3 | 56.1 | 67.9 | 64.9 | 62.0 | 62.0 | 59.0 | 62.0 |
| 87.5° | 5.9 | 5.9 | 8.9 | 8.9 | 8.9 | 11.8 | 14.8 | 14.8 | 14.8 | 17.7 | 17.7 |
| 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° | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 | 6904.7 |
| 2.5° | 6913.6 | 6795.5 | 6686.3 | 6485.6 | 6267.1 | 6205.1 | 5951.2 | 5859.7 | 5794.8 | 5718.0 | 5694.4 |
| 5° | 6949.0 | 6792.6 | 6441.3 | 6036.8 | 5715.1 | 5301.8 | 5030.2 | 4738.0 | 4525.4 | 4472.3 | 4457.5 |
| 7.5° | 7022.8 | 6754.2 | 6149.0 | 5538.0 | 4879.7 | 4318.8 | 3890.7 | 3660.5 | 3456.8 | 3445.0 | 3424.3 |
| 10° | 7105.5 | 6639.1 | 5830.2 | 4870.8 | 4029.5 | 3509.9 | 3253.1 | 3152.7 | 3102.6 | 3090.7 | 3084.8 |
| 12.5° | 7173.4 | 6615.4 | 5473.0 | 4221.4 | 3427.3 | 3114.4 | 3037.6 | 3028.8 | 3049.4 | 3055.3 | 3067.1 |
| 15° | 7202.9 | 6521.0 | 5042.0 | 3639.8 | 3052.4 | 2937.2 | 2969.7 | 3005.1 | 3019.9 | 3058.3 | 3028.8 |
| 17.5° | 7259.0 | 6399.9 | 4510.7 | 3179.3 | 2842.8 | 2863.4 | 2919.5 | 2960.9 | 2984.5 | 3011.0 | 2972.7 |
| 20° | 7288.5 | 6290.7 | 4011.8 | 2904.8 | 2769.0 | 2807.4 | 2884.1 | 2916.6 | 2946.1 | 2957.9 | 2913.6 |
| 22.5° | 7261.9 | 6066.4 | 3571.9 | 2683.4 | 2698.1 | 2748.3 | 2816.2 | 2851.6 | 2833.9 | 2786.7 | 2760.1 |
| 25° | 7191.1 | 5750.5 | 3114.4 | 2541.7 | 2597.8 | 2686.3 | 2739.5 | 2712.9 | 2680.4 | 2653.9 | 2645.0 |
| 27.5° | 7188.1 | 5363.8 | 2783.7 | 2411.8 | 2512.2 | 2633.2 | 2615.5 | 2591.9 | 2606.6 | 2586.0 | 2562.3 |
| 30° | 7202.9 | 4988.9 | 2512.2 | 2338.0 | 2450.2 | 2509.2 | 2529.9 | 2506.3 | 2524.0 | 2485.6 | 2497.4 |
| 32.5° | 7126.1 | 4622.8 | 2335.0 | 2252.4 | 2376.4 | 2373.4 | 2441.3 | 2459.0 | 2417.7 | 2338.0 | 2349.8 |
| 35° | 7158.6 | 4327.6 | 2184.5 | 2214.0 | 2293.7 | 2293.7 | 2346.8 | 2326.2 | 2217.0 | 2169.7 | 2181.5 |
| 37.5° | 7383.0 | 4038.3 | 2110.7 | 2160.9 | 2214.0 | 2237.6 | 2219.9 | 2131.3 | 2104.8 | 2104.8 | 2110.7 |
| 40° | 7595.5 | 3790.4 | 2066.4 | 2149.1 | 2140.2 | 2155.0 | 2025.1 | 2033.9 | 2033.9 | 2036.9 | 2022.1 |
| 42.5° | 7784.4 | 3622.1 | 2031.0 | 2078.2 | 2093.0 | 2016.2 | 1936.5 | 1927.7 | 1948.3 | 1945.4 | 1933.6 |
| 45° | 7852.3 | 3483.4 | 1980.8 | 1998.5 | 2010.3 | 1883.4 | 1845.0 | 1827.3 | 1850.9 | 1859.8 | 1871.6 |
| 47.5° | 7592.6 | 3368.2 | 1924.7 | 1889.3 | 1865.7 | 1783.0 | 1732.8 | 1700.4 | 1729.9 | 1780.1 | 1791.9 |
| 50° | 7259.0 | 3217.7 | 1836.1 | 1768.2 | 1718.1 | 1682.6 | 1647.2 | 1614.7 | 1635.4 | 1670.8 | 1662.0 |
| 52.5° | 6766.0 | 2981.5 | 1724.0 | 1653.1 | 1567.5 | 1576.4 | 1543.9 | 1526.2 | 1538.0 | 1538.0 | 1529.1 |
| 55° | 6063.4 | 2450.2 | 1535.0 | 1484.9 | 1414.0 | 1437.6 | 1443.5 | 1419.9 | 1396.3 | 1417.0 | 1399.2 |
| 57.5° | 4138.7 | 1729.9 | 1369.7 | 1369.7 | 1298.9 | 1331.4 | 1328.4 | 1272.3 | 1216.2 | 1222.1 | 1210.3 |
| 60° | 2394.1 | 1378.6 | 1263.5 | 1251.6 | 1177.8 | 1204.4 | 1210.3 | 1171.9 | 1086.3 | 1092.2 | 1080.4 |
| 62.5° | 1360.9 | 1177.8 | 1104.0 | 1086.3 | 1071.6 | 1095.2 | 1095.2 | 1045.0 | 971.2 | 977.1 | 965.3 |
| 65° | 1157.2 | 1092.2 | 986.0 | 983.0 | 977.1 | 983.0 | 959.4 | 906.3 | 841.3 | 814.8 | 817.7 |
| 67.5° | 1050.9 | 1009.6 | 906.3 | 879.7 | 862.0 | 859.0 | 814.8 | 764.6 | 735.0 | 711.4 | 708.5 |
| 70° | 921.0 | 888.6 | 811.8 | 776.4 | 758.7 | 717.3 | 673.1 | 640.6 | 599.3 | 587.4 | 599.3 |
| 72.5° | 729.1 | 726.2 | 696.7 | 658.3 | 619.9 | 587.4 | 549.1 | 504.8 | 466.4 | 457.6 | 436.9 |
| 75° | 504.8 | 510.7 | 516.6 | 510.7 | 478.2 | 436.9 | 392.6 | 357.2 | 310.0 | 283.4 | 277.5 |
| 77.5° | 330.6 | 339.5 | 348.3 | 336.5 | 315.9 | 277.5 | 248.0 | 203.7 | 168.3 | 147.6 | 144.6 |
| 80° | 242.1 | 253.9 | 259.8 | 250.9 | 227.3 | 197.8 | 165.3 | 129.9 | 103.3 | 85.6 | 85.6 |
| 82.5° | 186.0 | 197.8 | 203.7 | 188.9 | 165.3 | 141.7 | 118.1 | 91.5 | 70.8 | 56.1 | 53.1 |
| 85° | 64.9 | 62.0 | 73.8 | 76.8 | 91.5 | 85.6 | 70.8 | 53.1 | 41.3 | 29.5 | 26.6 |
| 87.5° | 17.7 | 17.7 | 20.7 | 20.7 | 17.7 | 14.8 | 14.8 | 14.8 | 11.8 | 8.9 | 8.9 |
| 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)