

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: STREETWORKS

Report Number: P636824

Luminaire Tested: **IFLD-S-SA2A-950-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636824
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-950-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5131.4 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

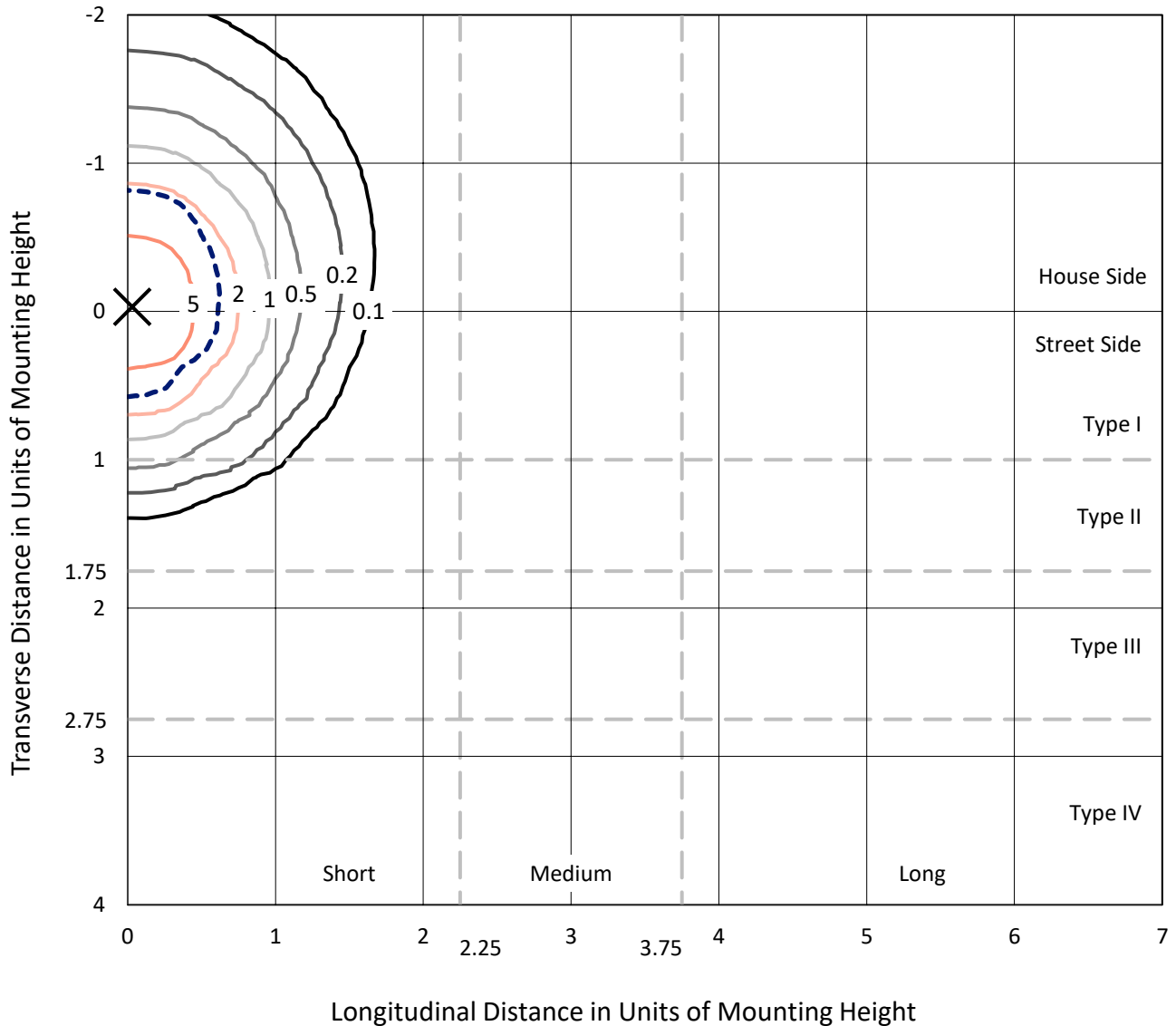
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

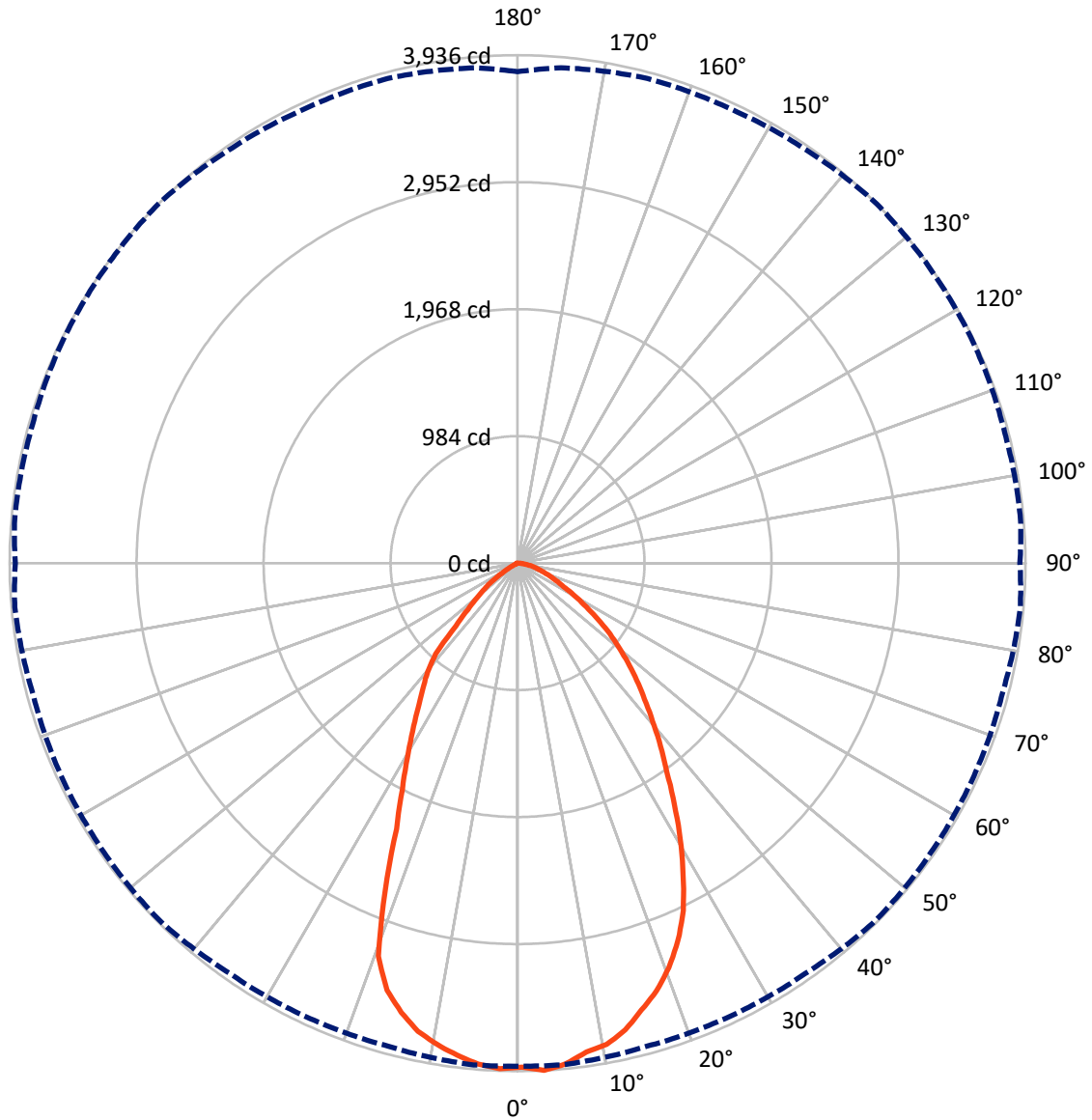
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3039.1 | 0.0 | 3039.1 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 2092.3 | 0.0 | 2092.3 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 5131.4 | 0.0 | 5131.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 366.2 | 7.1 |
| 10°-20° | 982.1 | 19.1 |
| 20°-30° | 1197.7 | 23.3 |
| 30°-40° | 1093.5 | 21.3 |
| 40°-50° | 790.2 | 15.4 |
| 50°-60° | 431.5 | 8.4 |
| 60°-70° | 178.4 | 3.5 |
| 70°-80° | 72.3 | 1.4 |
| 80°-90° | 19.7 | 0.4 |
| 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° | 5131.4 | 100.0 |
| 0°-180° | 5131.4 | 100.0 |



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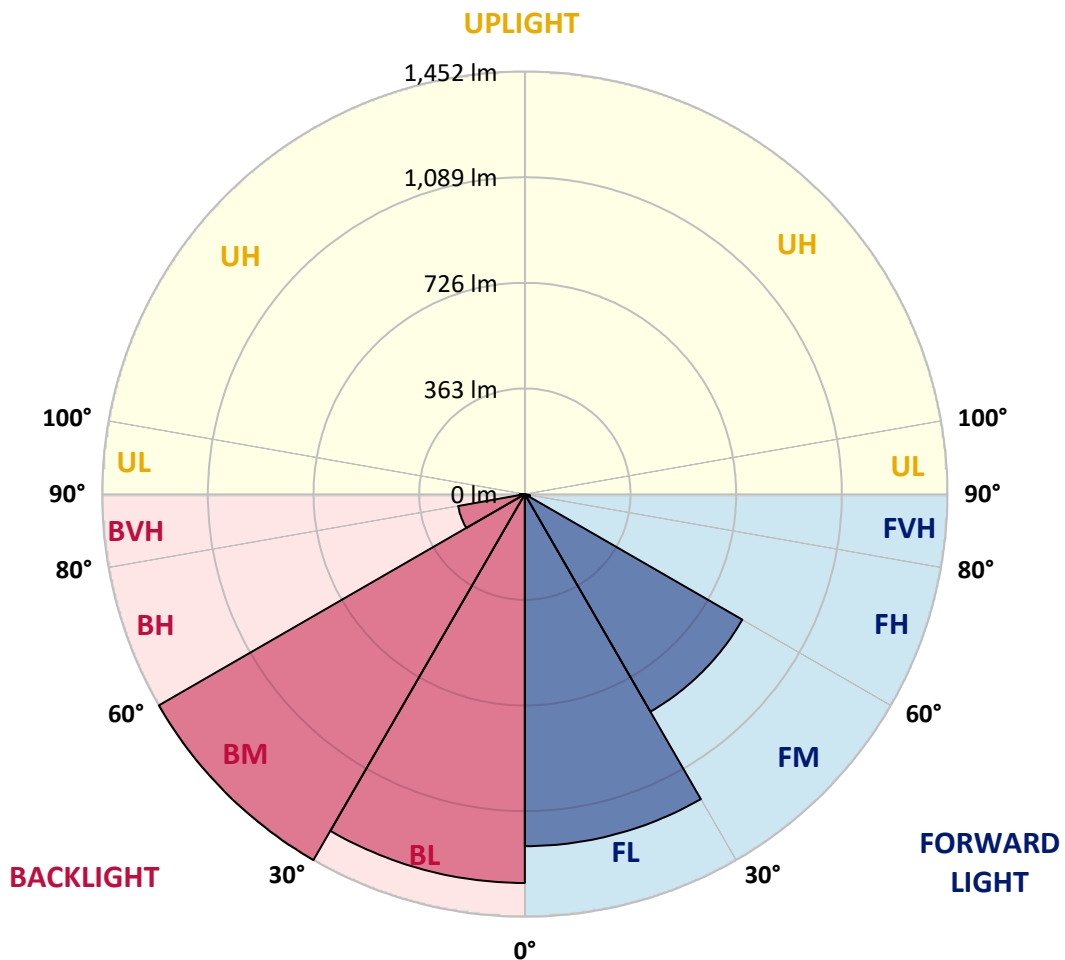
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1209.7 | 23.6 | | | |
| FM (30°-60°) | 863.0 | 16.8 | | | |
| FH (60°-80°) | 18.1 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1336.3 | 26.0 | B3/2500 | | |
| BM (30°-60°) | 1452.1 | 28.3 | B2/2500 | | |
| BH (60°-80°) | 232.6 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.1 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 |
| 2.5° | 3897.7 | 3902.8 | 3875.3 | 3878.2 | 3883.3 | 3920.1 | 3910.7 | 3902.1 | 3889.8 | 3910.7 |
| 5° | 3892.7 | 3895.6 | 3866.7 | 3856.6 | 3860.9 | 3894.1 | 3863.8 | 3863.8 | 3860.9 | 3857.3 |
| 7.5° | 3853.7 | 3855.1 | 3832.7 | 3814.6 | 3826.2 | 3841.4 | 3819.0 | 3829.8 | 3813.9 | 3826.2 |
| 10° | 3795.1 | 3785.7 | 3759.0 | 3753.9 | 3766.9 | 3781.4 | 3766.2 | 3776.3 | 3761.9 | 3771.3 |
| 12.5° | 3709.1 | 3694.7 | 3673.0 | 3666.5 | 3688.9 | 3708.4 | 3696.1 | 3690.4 | 3671.6 | 3694.7 |
| 15° | 3377.5 | 3366.6 | 3415.8 | 3501.8 | 3579.1 | 3595.7 | 3582.7 | 3588.5 | 3549.4 | 3555.9 |
| 17.5° | 2779.9 | 2759.6 | 2812.4 | 3016.2 | 3306.6 | 3459.8 | 3448.3 | 3410.7 | 3352.9 | 3365.9 |
| 20° | 2526.2 | 2520.5 | 2514.7 | 2563.1 | 2766.1 | 3230.8 | 3246.7 | 3151.3 | 3068.9 | 3050.8 |
| 22.5° | 2383.2 | 2381.0 | 2375.2 | 2386.0 | 2439.5 | 2738.0 | 2920.1 | 2831.9 | 2777.0 | 2771.9 |
| 25° | 2252.4 | 2248.8 | 2231.4 | 2245.1 | 2245.1 | 2262.5 | 2495.9 | 2549.4 | 2500.9 | 2495.2 |
| 27.5° | 2119.4 | 2112.9 | 2110.0 | 2116.5 | 2083.3 | 1966.2 | 2025.5 | 2286.3 | 2261.0 | 2262.5 |
| 30° | 1975.6 | 1973.4 | 1965.5 | 1979.2 | 1876.6 | 1731.4 | 1693.8 | 2047.9 | 2052.9 | 2051.5 |
| 32.5° | 1761.7 | 1771.1 | 1807.2 | 1822.4 | 1653.3 | 1533.4 | 1470.5 | 1771.8 | 1875.2 | 1873.0 |
| 35° | 1279.7 | 1279.7 | 1397.5 | 1616.5 | 1448.8 | 1358.5 | 1324.5 | 1502.3 | 1699.6 | 1706.8 |
| 37.5° | 1052.1 | 1055.7 | 1078.9 | 1178.6 | 1250.1 | 1218.3 | 1208.2 | 1264.6 | 1474.1 | 1485.7 |
| 40° | 946.6 | 946.6 | 946.6 | 905.4 | 903.3 | 1097.6 | 1091.9 | 1073.8 | 1273.2 | 1298.5 |
| 42.5° | 850.5 | 852.7 | 854.1 | 750.1 | 692.3 | 948.8 | 935.8 | 908.3 | 1093.3 | 1122.9 |
| 45° | 751.5 | 755.1 | 759.5 | 627.2 | 601.9 | 682.9 | 792.0 | 761.6 | 915.5 | 953.8 |
| 47.5° | 458.9 | 464.6 | 562.9 | 531.8 | 534.7 | 526.8 | 646.0 | 641.0 | 750.8 | 805.0 |
| 50° | 310.0 | 312.2 | 321.6 | 337.5 | 458.9 | 414.1 | 457.4 | 530.4 | 570.1 | 652.5 |
| 52.5° | 260.1 | 263.8 | 240.6 | 218.9 | 301.3 | 323.7 | 319.4 | 393.8 | 409.7 | 511.6 |
| 55° | 182.8 | 194.4 | 183.5 | 181.4 | 171.3 | 251.5 | 242.1 | 302.8 | 312.9 | 388.8 |
| 57.5° | 18.8 | 21.7 | 37.6 | 135.1 | 112.0 | 142.4 | 172.7 | 221.8 | 232.0 | 286.9 |
| 60° | 1.4 | 1.4 | 3.6 | 18.8 | 81.7 | 85.3 | 119.2 | 136.6 | 156.1 | 200.2 |
| 62.5° | 0.0 | 0.7 | 1.4 | 2.9 | 13.0 | 45.5 | 60.0 | 71.5 | 93.9 | 129.3 |
| 65° | 0.0 | 0.0 | 0.7 | 2.2 | 2.9 | 17.3 | 23.1 | 37.6 | 51.3 | 80.2 |
| 67.5° | 0.0 | 0.0 | 0.7 | 1.4 | 2.2 | 4.3 | 7.9 | 13.7 | 27.5 | 45.5 |
| 70° | 0.0 | 0.0 | 0.7 | 1.4 | 2.2 | 3.6 | 5.8 | 8.7 | 12.3 | 24.6 |
| 72.5° | 0.0 | 0.0 | 0.7 | 0.7 | 1.4 | 3.6 | 4.3 | 5.8 | 8.7 | 12.3 |
| 75° | 0.0 | 0.0 | 0.7 | 0.7 | 2.2 | 4.3 | 3.6 | 4.3 | 5.8 | 7.9 |
| 77.5° | 0.0 | 0.0 | 0.7 | 1.4 | 2.2 | 4.3 | 3.6 | 4.3 | 4.3 | 5.1 |
| 80° | 0.0 | 0.0 | 0.7 | 1.4 | 2.9 | 5.1 | 4.3 | 4.3 | 3.6 | 3.6 |
| 82.5° | 0.0 | 0.0 | 0.7 | 2.2 | 2.9 | 6.5 | 6.5 | 5.8 | 2.9 | 2.2 |
| 85° | 0.0 | 0.0 | 1.4 | 2.9 | 4.3 | 7.2 | 7.2 | 5.8 | 2.2 | 1.4 |
| 87.5° | 0.0 | 0.0 | 1.4 | 2.2 | 3.6 | 5.1 | 7.2 | 5.8 | 2.2 | 0.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: IFLD-S-SA2A-950-U-77-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3905.0 | 0° | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 | 3905.0 |
| 3892.7 | 2.5° | 3912.2 | 3907.9 | 3922.3 | 3928.1 | 3936.0 | 3905.7 | 3886.9 | 3887.6 | 3852.9 |
| 3848.6 | 5° | 3871.7 | 3872.4 | 3891.2 | 3889.8 | 3897.7 | 3881.1 | 3873.9 | 3861.6 | 3831.3 |
| 3793.0 | 7.5° | 3820.4 | 3813.9 | 3832.0 | 3845.7 | 3825.5 | 3837.0 | 3820.4 | 3826.2 | 3808.1 |
| 3743.8 | 10° | 3780.7 | 3765.5 | 3782.1 | 3791.5 | 3792.2 | 3780.7 | 3764.8 | 3749.6 | 3743.1 |
| 3667.2 | 12.5° | 3692.5 | 3673.0 | 3701.2 | 3714.2 | 3712.0 | 3689.6 | 3671.6 | 3675.2 | 3654.2 |
| 3532.8 | 15° | 3571.1 | 3571.8 | 3592.1 | 3604.4 | 3592.8 | 3587.7 | 3589.2 | 3580.5 | 3562.5 |
| 3347.1 | 17.5° | 3385.4 | 3396.3 | 3449.7 | 3479.4 | 3485.9 | 3475.7 | 3470.7 | 3460.6 | 3442.5 |
| 3050.8 | 20° | 3076.1 | 3141.2 | 3236.6 | 3328.3 | 3346.4 | 3343.5 | 3325.4 | 3321.1 | 3311.0 |
| 2757.5 | 22.5° | 2804.4 | 2852.9 | 2963.4 | 3106.5 | 3180.2 | 3187.4 | 3165.7 | 3159.2 | 3148.4 |
| 2495.2 | 25° | 2523.3 | 2575.4 | 2675.1 | 2830.5 | 2982.9 | 3014.0 | 3010.4 | 2990.9 | 2979.3 |
| 2262.5 | 27.5° | 2286.3 | 2338.4 | 2428.7 | 2568.9 | 2732.2 | 2831.9 | 2841.3 | 2810.2 | 2809.5 |
| 2055.1 | 30° | 2072.4 | 2144.0 | 2212.6 | 2326.8 | 2485.0 | 2634.6 | 2650.5 | 2628.8 | 2631.0 |
| 1865.0 | 32.5° | 1904.8 | 1964.0 | 2022.6 | 2099.2 | 2230.7 | 2404.8 | 2467.0 | 2446.7 | 2438.8 |
| 1706.8 | 35° | 1733.5 | 1774.0 | 1834.0 | 1904.1 | 1993.7 | 2166.4 | 2274.0 | 2258.9 | 2250.9 |
| 1492.9 | 37.5° | 1538.4 | 1607.8 | 1651.2 | 1729.9 | 1800.0 | 1937.3 | 2089.1 | 2086.9 | 2070.3 |
| 1310.8 | 40° | 1338.3 | 1411.3 | 1477.0 | 1556.5 | 1610.7 | 1719.8 | 1888.2 | 1887.4 | 1889.6 |
| 1122.2 | 42.5° | 1156.9 | 1224.1 | 1303.6 | 1390.3 | 1442.3 | 1521.8 | 1702.5 | 1712.6 | 1724.9 |
| 966.8 | 45° | 992.9 | 1053.6 | 1127.3 | 1232.8 | 1295.6 | 1341.2 | 1501.6 | 1547.8 | 1547.1 |
| 828.1 | 47.5° | 845.4 | 902.5 | 964.7 | 1067.3 | 1147.5 | 1188.7 | 1321.6 | 1387.4 | 1383.1 |
| 679.3 | 50° | 709.6 | 760.2 | 825.2 | 899.6 | 1007.3 | 1043.4 | 1142.4 | 1229.2 | 1222.7 |
| 541.2 | 52.5° | 570.9 | 641.0 | 695.9 | 763.8 | 877.2 | 912.7 | 989.2 | 1073.8 | 1068.7 |
| 406.1 | 55° | 445.1 | 513.1 | 579.5 | 638.1 | 733.4 | 786.2 | 841.1 | 927.8 | 926.4 |
| 317.9 | 57.5° | 336.7 | 411.2 | 474.0 | 529.7 | 605.5 | 670.6 | 714.7 | 793.4 | 803.5 |
| 217.5 | 60° | 249.3 | 306.4 | 374.3 | 436.5 | 496.4 | 563.6 | 593.3 | 670.6 | 674.9 |
| 148.9 | 62.5° | 169.8 | 232.7 | 299.2 | 355.5 | 400.3 | 469.7 | 496.4 | 560.0 | 568.0 |
| 95.4 | 65° | 117.8 | 158.3 | 234.1 | 274.6 | 329.5 | 388.8 | 415.5 | 466.1 | 482.0 |
| 54.9 | 67.5° | 78.0 | 112.7 | 182.8 | 219.7 | 273.9 | 314.3 | 348.3 | 389.5 | 406.8 |
| 34.7 | 70° | 42.6 | 83.1 | 130.8 | 173.4 | 220.4 | 259.4 | 292.7 | 325.9 | 341.1 |
| 15.9 | 72.5° | 28.9 | 55.6 | 91.0 | 137.3 | 177.8 | 216.1 | 245.7 | 270.3 | 271.0 |
| 9.4 | 75° | 14.5 | 37.6 | 69.4 | 106.2 | 138.7 | 176.3 | 203.1 | 217.5 | 200.2 |
| 5.8 | 77.5° | 8.7 | 27.5 | 56.4 | 85.3 | 112.7 | 142.4 | 157.5 | 165.5 | 137.3 |
| 4.3 | 80° | 5.1 | 19.5 | 44.1 | 67.9 | 78.0 | 104.8 | 119.2 | 121.4 | 91.8 |
| 2.9 | 82.5° | 3.6 | 14.5 | 34.7 | 49.9 | 47.7 | 73.7 | 89.6 | 86.7 | 58.5 |
| 2.2 | 85° | 2.2 | 10.1 | 21.7 | 31.1 | 28.9 | 48.4 | 52.0 | 53.5 | 34.0 |
| 1.4 | 87.5° | 1.4 | 5.8 | 11.6 | 16.6 | 13.7 | 21.0 | 21.0 | 25.3 | 16.6 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|--------|
| 3905.0 |
| 3808.1 |
| 3824.0 |
| 3777.8 |
| 3714.2 |
| 3636.2 |
| 3544.4 |
| 3434.5 |
| 3287.9 |
| 3145.5 |
| 2967.0 |
| 2808.0 |
| 2620.2 |
| 2439.5 |
| 2240.1 |
| 2084.0 |
| 1889.6 |
| 1718.4 |
| 1548.5 |
| 1384.5 |
| 1228.4 |
| 1079.6 |
| 930.0 |
| 799.2 |
| 681.4 |
| 569.4 |
| 478.4 |
| 404.7 |
| 335.3 |
| 264.5 |
| 187.2 |
| 132.2 |
| 86.0 |
| 54.2 |
| 31.1 |
| 14.5 |
| 0.0 |

(END OF REPORT)