

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: P637840

Luminaire Tested: **IFLD-S-SA2B-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637840
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8766.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

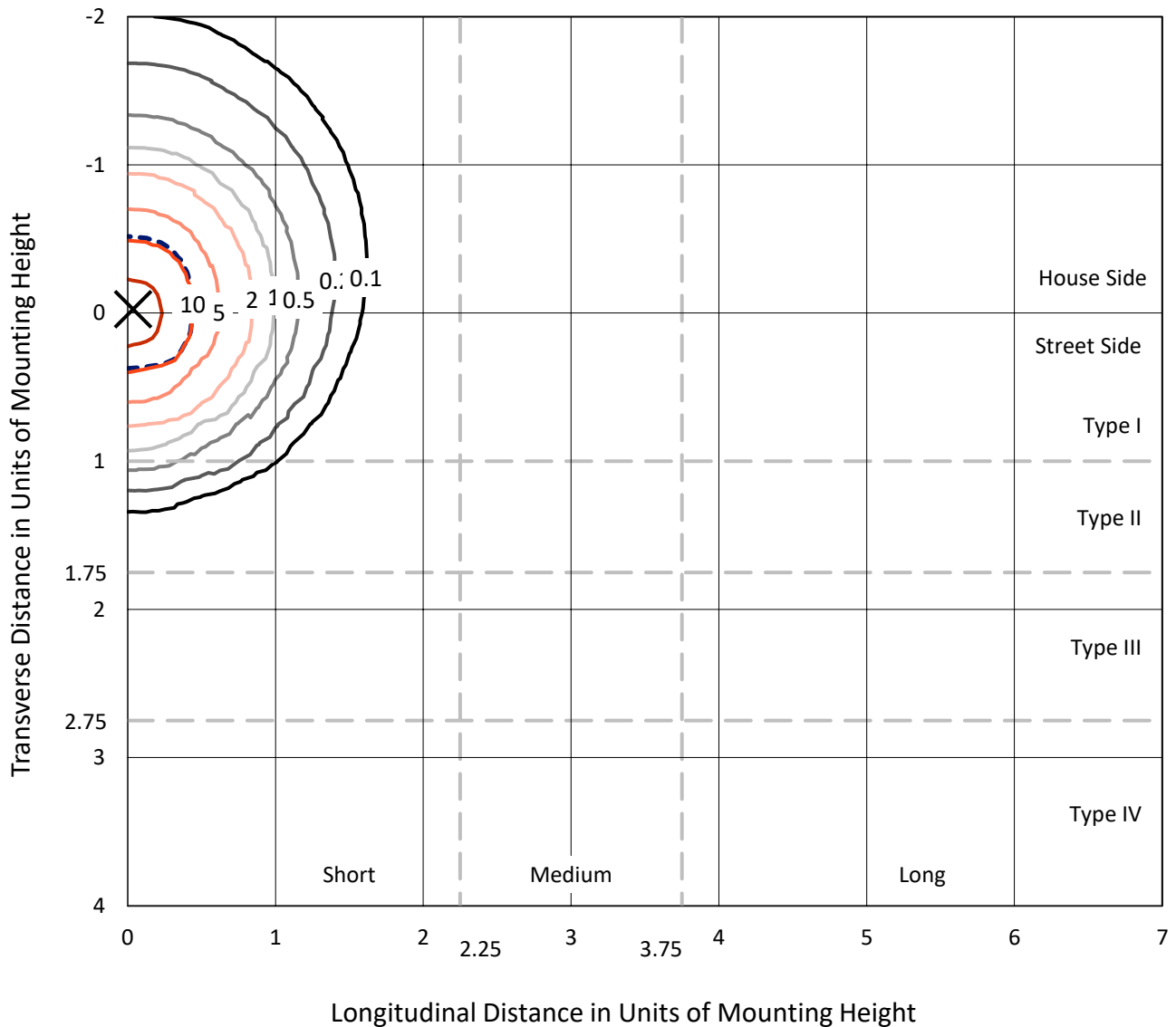
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

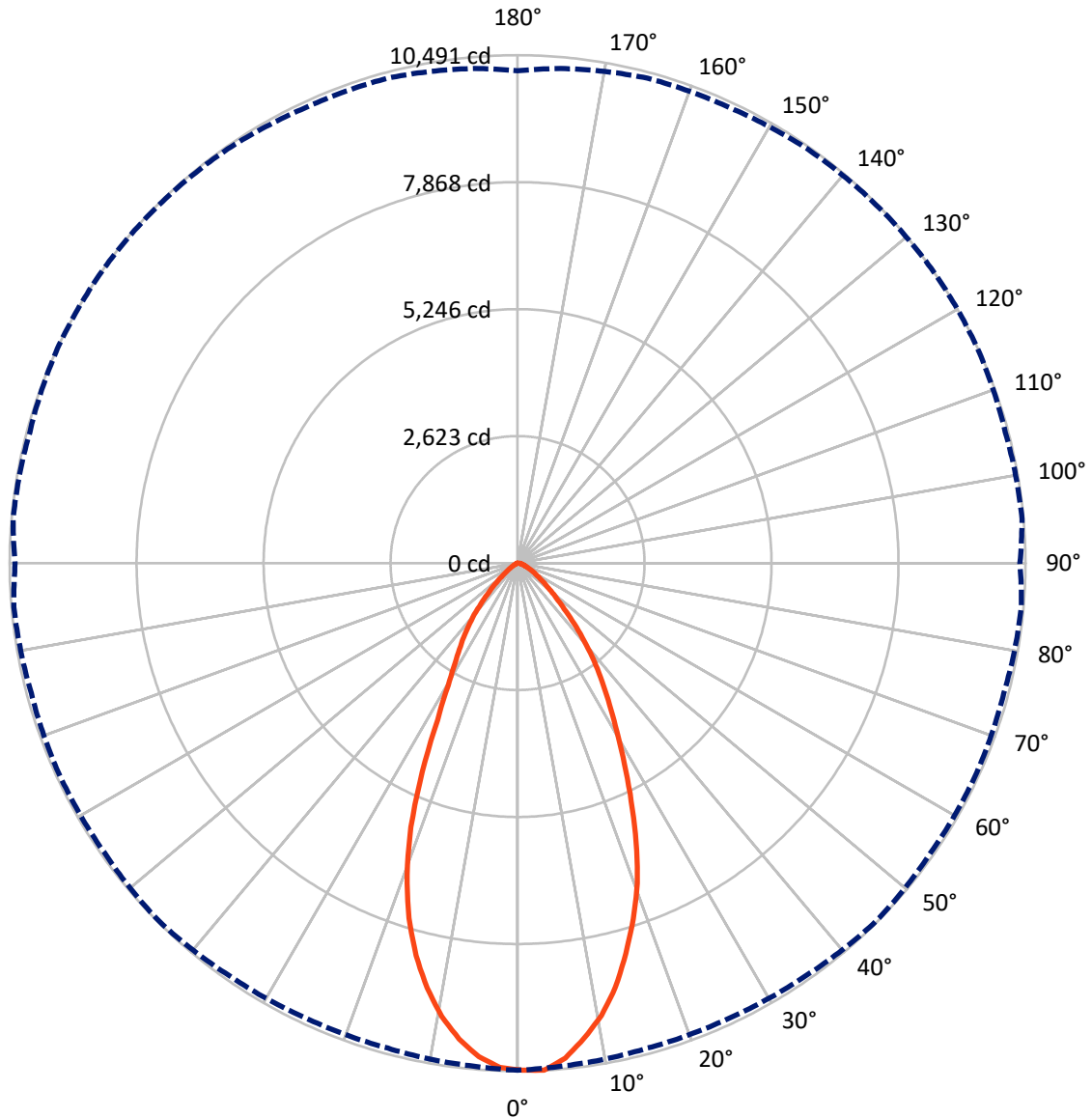
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4974.7 | 0.0 | 4974.7 |
| | % Fixture | 56.7 | 0.0 | 56.7 |
| Street Side | Lumens | 3792.2 | 0.0 | 3792.2 |
| | % Fixture | 43.3 | 0.0 | 43.3 |
| Total | Lumens | 8766.9 | 0.0 | 8766.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 951.1 | 10.8 |
| 10°-20° | 2267.2 | 25.9 |
| 20°-30° | 2309.1 | 26.3 |
| 30°-40° | 1721.9 | 19.6 |
| 40°-50° | 899.6 | 10.3 |
| 50°-60° | 378.4 | 4.3 |
| 60°-70° | 154.5 | 1.8 |
| 70°-80° | 65.0 | 0.7 |
| 80°-90° | 20.0 | 0.2 |
| 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° | 8766.9 | 100.0 |
| 0°-180° | 8766.9 | 100.0 |



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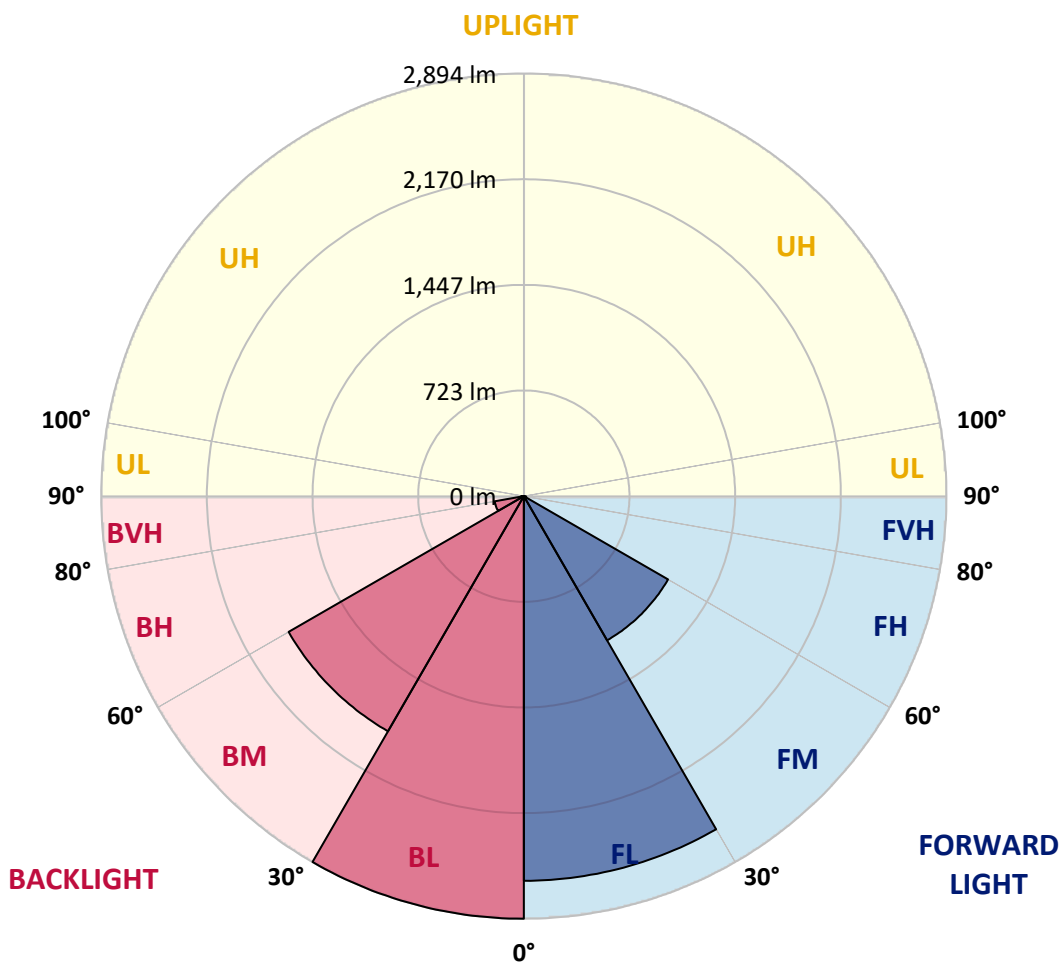
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2633.7 | 30.0 | | | |
| FM (30°-60°) | 1140.2 | 13.0 | | | |
| FH (60°-80°) | 16.5 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 1.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2893.8 | 33.0 | B4/5000 | | |
| BM (30°-60°) | 1859.7 | 21.2 | B2/2500 | | |
| BH (60°-80°) | 203.1 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 |
| 2.5° | 10475.4 | 10432.7 | 10371.8 | 10366.2 | 10397.7 | 10466.4 | 10422.5 | 10424.8 | 10397.7 | 10443.9 |
| 5° | 10311.0 | 10270.5 | 10228.8 | 10173.6 | 10219.8 | 10249.1 | 10226.6 | 10201.8 | 10166.9 | 10211.9 |
| 7.5° | 10000.2 | 9977.7 | 9915.7 | 9891.0 | 9919.1 | 9951.8 | 9903.4 | 9896.6 | 9848.2 | 9906.7 |
| 10° | 9525.0 | 9516.0 | 9455.2 | 9440.5 | 9465.3 | 9514.8 | 9493.4 | 9488.9 | 9458.5 | 9452.9 |
| 12.5° | 9031.7 | 8996.8 | 8921.4 | 8916.9 | 8954.0 | 9028.3 | 8970.9 | 8915.7 | 8932.6 | 8947.3 |
| 15° | 7761.4 | 7724.3 | 7911.2 | 8205.1 | 8359.4 | 8353.8 | 8370.7 | 8304.2 | 8284.0 | 8290.7 |
| 17.5° | 6170.2 | 6107.1 | 6174.7 | 6629.6 | 7362.8 | 7788.5 | 7671.3 | 7528.3 | 7451.7 | 7401.1 |
| 20° | 5325.6 | 5328.9 | 5316.6 | 5433.7 | 5890.9 | 6861.6 | 6833.5 | 6557.6 | 6457.3 | 6415.7 |
| 22.5° | 4812.0 | 4792.9 | 4765.9 | 4803.0 | 4925.8 | 5495.6 | 5877.4 | 5624.0 | 5589.1 | 5542.9 |
| 25° | 4308.6 | 4308.6 | 4276.0 | 4313.2 | 4348.1 | 4355.9 | 4738.8 | 4842.4 | 4774.9 | 4774.9 |
| 27.5° | 3872.8 | 3850.3 | 3835.7 | 3852.6 | 3806.4 | 3584.5 | 3633.0 | 4163.4 | 4117.2 | 4089.0 |
| 30° | 3440.4 | 3433.6 | 3408.9 | 3431.4 | 3260.2 | 3010.2 | 2908.8 | 3513.6 | 3562.0 | 3551.9 |
| 32.5° | 2840.1 | 2867.2 | 2977.5 | 3012.5 | 2719.7 | 2518.1 | 2421.2 | 2916.7 | 3110.4 | 3102.5 |
| 35° | 1930.2 | 1952.7 | 2078.9 | 2495.5 | 2254.6 | 2110.4 | 2082.3 | 2319.9 | 2638.6 | 2669.0 |
| 37.5° | 1537.2 | 1533.8 | 1569.9 | 1644.2 | 1812.0 | 1777.1 | 1769.2 | 1831.1 | 2152.1 | 2165.6 |
| 40° | 1266.9 | 1262.4 | 1261.3 | 1200.5 | 1158.8 | 1477.5 | 1456.1 | 1418.9 | 1697.1 | 1724.1 |
| 42.5° | 1021.4 | 1025.9 | 1029.3 | 896.4 | 835.6 | 1139.7 | 1127.3 | 1089.0 | 1331.1 | 1362.6 |
| 45° | 801.8 | 800.7 | 807.4 | 667.8 | 650.9 | 728.6 | 842.4 | 812.0 | 1004.5 | 1038.3 |
| 47.5° | 415.5 | 430.2 | 521.4 | 516.9 | 524.8 | 516.9 | 637.4 | 629.5 | 755.6 | 809.7 |
| 50° | 279.3 | 283.8 | 291.7 | 292.8 | 413.3 | 380.6 | 432.4 | 489.9 | 529.3 | 612.6 |
| 52.5° | 216.2 | 219.6 | 199.3 | 186.9 | 253.4 | 281.5 | 283.8 | 339.0 | 369.4 | 453.8 |
| 55° | 120.5 | 135.1 | 145.3 | 146.4 | 139.6 | 208.3 | 207.2 | 251.1 | 274.8 | 331.1 |
| 57.5° | 15.8 | 19.1 | 29.3 | 94.6 | 93.5 | 116.0 | 145.3 | 182.4 | 196.0 | 242.1 |
| 60° | 1.1 | 2.3 | 3.4 | 14.6 | 61.9 | 67.6 | 99.1 | 113.7 | 136.3 | 170.0 |
| 62.5° | 0.0 | 0.0 | 1.1 | 3.4 | 12.4 | 39.4 | 51.8 | 59.7 | 80.0 | 111.5 |
| 65° | 0.0 | 0.0 | 1.1 | 2.3 | 4.5 | 14.6 | 20.3 | 32.7 | 47.3 | 68.7 |
| 67.5° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 5.6 | 9.0 | 14.6 | 24.8 | 41.7 |
| 70° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 4.5 | 6.8 | 9.0 | 13.5 | 22.5 |
| 72.5° | 0.0 | 0.0 | 1.1 | 1.1 | 2.3 | 5.6 | 5.6 | 6.8 | 9.0 | 12.4 |
| 75° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 5.6 | 5.6 | 5.6 | 6.8 | 7.9 |
| 77.5° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 5.6 | 4.5 | 5.6 | 5.6 | 5.6 |
| 80° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 5.6 | 6.8 | 5.6 | 4.5 | 4.5 |
| 82.5° | 0.0 | 0.0 | 1.1 | 3.4 | 3.4 | 7.9 | 7.9 | 7.9 | 3.4 | 3.4 |
| 85° | 0.0 | 0.0 | 2.3 | 3.4 | 5.6 | 9.0 | 9.0 | 6.8 | 3.4 | 2.3 |
| 87.5° | 0.0 | 0.0 | 1.1 | 2.3 | 2.3 | 4.5 | 6.8 | 5.6 | 2.3 | 1.1 |
| 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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CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10474.3 | 0° | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 | 10474.3 |
| 10376.3 | 2.5° | 10459.7 | 10431.5 | 10484.5 | 10491.2 | 10468.7 | 10440.5 | 10375.2 | 10369.6 | 10255.8 |
| 10146.6 | 5° | 10261.5 | 10215.3 | 10249.1 | 10271.6 | 10263.7 | 10233.3 | 10206.3 | 10181.5 | 10079.0 |
| 9773.9 | 7.5° | 9892.1 | 9875.2 | 9891.0 | 9907.9 | 9940.5 | 9907.9 | 9896.6 | 9870.7 | 9769.3 |
| 9406.7 | 10° | 9482.2 | 9450.6 | 9510.3 | 9502.5 | 9493.4 | 9484.4 | 9437.1 | 9441.6 | 9322.3 |
| 8906.7 | 12.5° | 8978.8 | 8925.9 | 8983.3 | 8990.1 | 8983.3 | 8951.8 | 8898.8 | 8921.4 | 8812.1 |
| 8231.0 | 15° | 8302.0 | 8296.3 | 8338.0 | 8365.0 | 8384.2 | 8350.4 | 8332.4 | 8343.6 | 8278.3 |
| 7361.6 | 17.5° | 7470.9 | 7544.1 | 7680.3 | 7726.5 | 7727.6 | 7762.5 | 7752.4 | 7738.9 | 7690.5 |
| 6398.8 | 20° | 6493.4 | 6634.1 | 6843.6 | 7058.7 | 7120.6 | 7091.4 | 7077.9 | 7102.6 | 7030.6 |
| 5494.5 | 22.5° | 5591.3 | 5711.8 | 5955.1 | 6269.3 | 6450.6 | 6468.6 | 6465.2 | 6443.8 | 6415.7 |
| 4770.4 | 25° | 4825.6 | 4932.5 | 5165.6 | 5452.8 | 5800.8 | 5852.6 | 5854.9 | 5848.1 | 5823.3 |
| 4113.8 | 27.5° | 4179.1 | 4308.6 | 4437.0 | 4693.8 | 5064.3 | 5278.3 | 5251.2 | 5243.4 | 5234.3 |
| 3559.8 | 30° | 3593.5 | 3756.8 | 3877.3 | 4037.2 | 4369.5 | 4658.9 | 4687.0 | 4673.5 | 4652.1 |
| 3101.4 | 32.5° | 3129.6 | 3226.4 | 3379.6 | 3487.7 | 3726.4 | 4054.1 | 4162.2 | 4152.1 | 4133.0 |
| 2688.1 | 35° | 2726.4 | 2764.7 | 2885.2 | 3005.7 | 3164.5 | 3482.1 | 3642.0 | 3619.4 | 3616.1 |
| 2190.4 | 37.5° | 2245.5 | 2373.9 | 2440.4 | 2562.0 | 2673.5 | 2920.1 | 3140.8 | 3130.7 | 3131.8 |
| 1761.3 | 40° | 1813.1 | 1887.4 | 2019.2 | 2121.7 | 2224.1 | 2404.3 | 2649.8 | 2656.6 | 2654.3 |
| 1363.8 | 42.5° | 1391.9 | 1464.0 | 1602.5 | 1714.0 | 1805.2 | 1916.7 | 2150.9 | 2158.8 | 2169.0 |
| 1062.0 | 45° | 1086.7 | 1132.9 | 1234.3 | 1350.3 | 1447.1 | 1514.7 | 1692.6 | 1743.3 | 1744.4 |
| 823.2 | 47.5° | 843.5 | 896.4 | 968.5 | 1080.0 | 1174.6 | 1223.0 | 1352.5 | 1421.2 | 1417.8 |
| 631.8 | 50° | 662.2 | 710.6 | 769.2 | 857.0 | 959.5 | 997.8 | 1093.5 | 1161.1 | 1157.7 |
| 476.4 | 52.5° | 506.8 | 568.7 | 620.5 | 688.1 | 788.3 | 821.0 | 889.7 | 967.4 | 956.1 |
| 349.1 | 55° | 384.0 | 447.1 | 495.5 | 551.8 | 643.0 | 684.7 | 732.0 | 793.9 | 796.2 |
| 270.3 | 57.5° | 289.4 | 354.7 | 398.7 | 456.1 | 524.8 | 571.0 | 607.0 | 673.4 | 672.3 |
| 184.7 | 60° | 207.2 | 263.5 | 316.4 | 376.1 | 429.1 | 482.0 | 506.8 | 569.8 | 572.1 |
| 130.6 | 62.5° | 149.8 | 202.7 | 253.4 | 305.2 | 352.5 | 404.3 | 426.8 | 476.4 | 483.1 |
| 85.6 | 65° | 104.7 | 141.9 | 200.5 | 239.9 | 292.8 | 331.1 | 360.4 | 403.2 | 411.0 |
| 50.7 | 67.5° | 67.6 | 102.5 | 158.8 | 193.7 | 242.1 | 274.8 | 305.2 | 339.0 | 349.1 |
| 32.7 | 70° | 40.5 | 77.7 | 118.2 | 155.4 | 199.3 | 228.6 | 257.9 | 287.2 | 292.8 |
| 15.8 | 72.5° | 25.9 | 54.1 | 85.6 | 126.1 | 159.9 | 191.4 | 217.3 | 238.7 | 221.9 |
| 10.1 | 75° | 14.6 | 37.2 | 67.6 | 99.1 | 129.5 | 159.9 | 181.3 | 192.6 | 154.3 |
| 6.8 | 77.5° | 9.0 | 27.0 | 55.2 | 80.0 | 100.2 | 128.4 | 141.9 | 148.7 | 110.4 |
| 4.5 | 80° | 5.6 | 20.3 | 46.2 | 65.3 | 65.3 | 94.6 | 110.4 | 116.0 | 80.0 |
| 3.4 | 82.5° | 4.5 | 14.6 | 36.0 | 49.6 | 43.9 | 70.9 | 86.7 | 87.8 | 56.3 |
| 2.3 | 85° | 3.4 | 11.3 | 22.5 | 32.7 | 30.4 | 49.6 | 50.7 | 56.3 | 37.2 |
| 2.3 | 87.5° | 2.3 | 6.8 | 13.5 | 19.1 | 16.9 | 23.6 | 27.0 | 30.4 | 20.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| |
|---------------|
| 180° |
| <hr/> 10474.3 |
| 10166.9 |
| 9996.8 |
| 9748.0 |
| 9281.7 |
| 8780.6 |
| 8199.5 |
| 7618.4 |
| 6978.7 |
| 6361.6 |
| 5740.0 |
| 5181.4 |
| 4625.1 |
| 4082.3 |
| 3578.9 |
| 3095.8 |
| 2614.9 |
| 2135.2 |
| 1715.1 |
| 1405.4 |
| 1157.7 |
| 957.2 |
| 796.2 |
| 670.1 |
| 566.5 |
| 480.9 |
| 408.8 |
| 348.0 |
| 288.3 |
| 206.1 |
| 146.4 |
| 103.6 |
| 74.3 |
| 51.8 |
| 33.8 |
| 18.0 |
| 0.0 |

(END OF REPORT)