

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: P636600

Luminaire Tested: **IFLD-S-SA3D-930-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636600
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-930-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11876.6 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

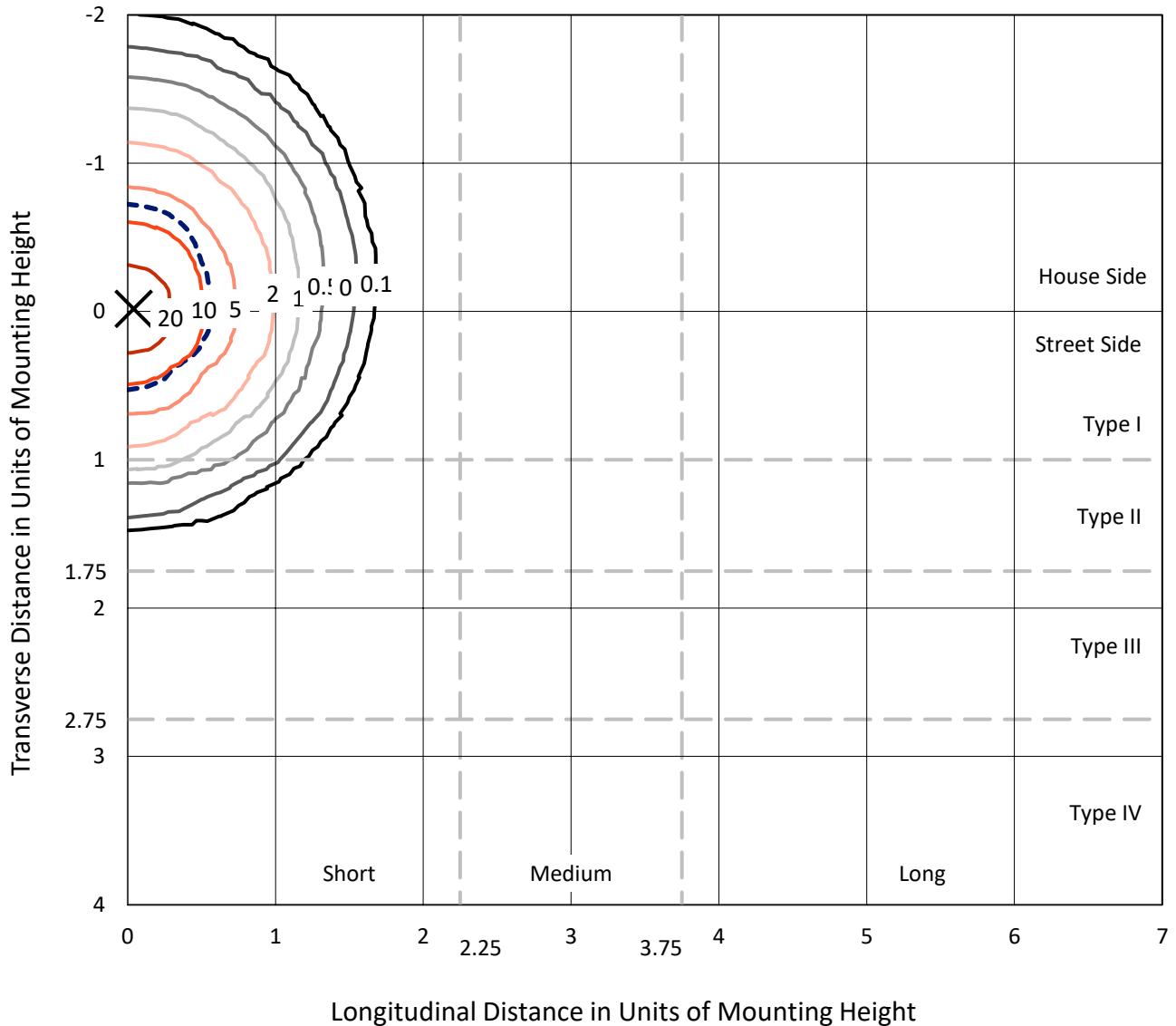
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

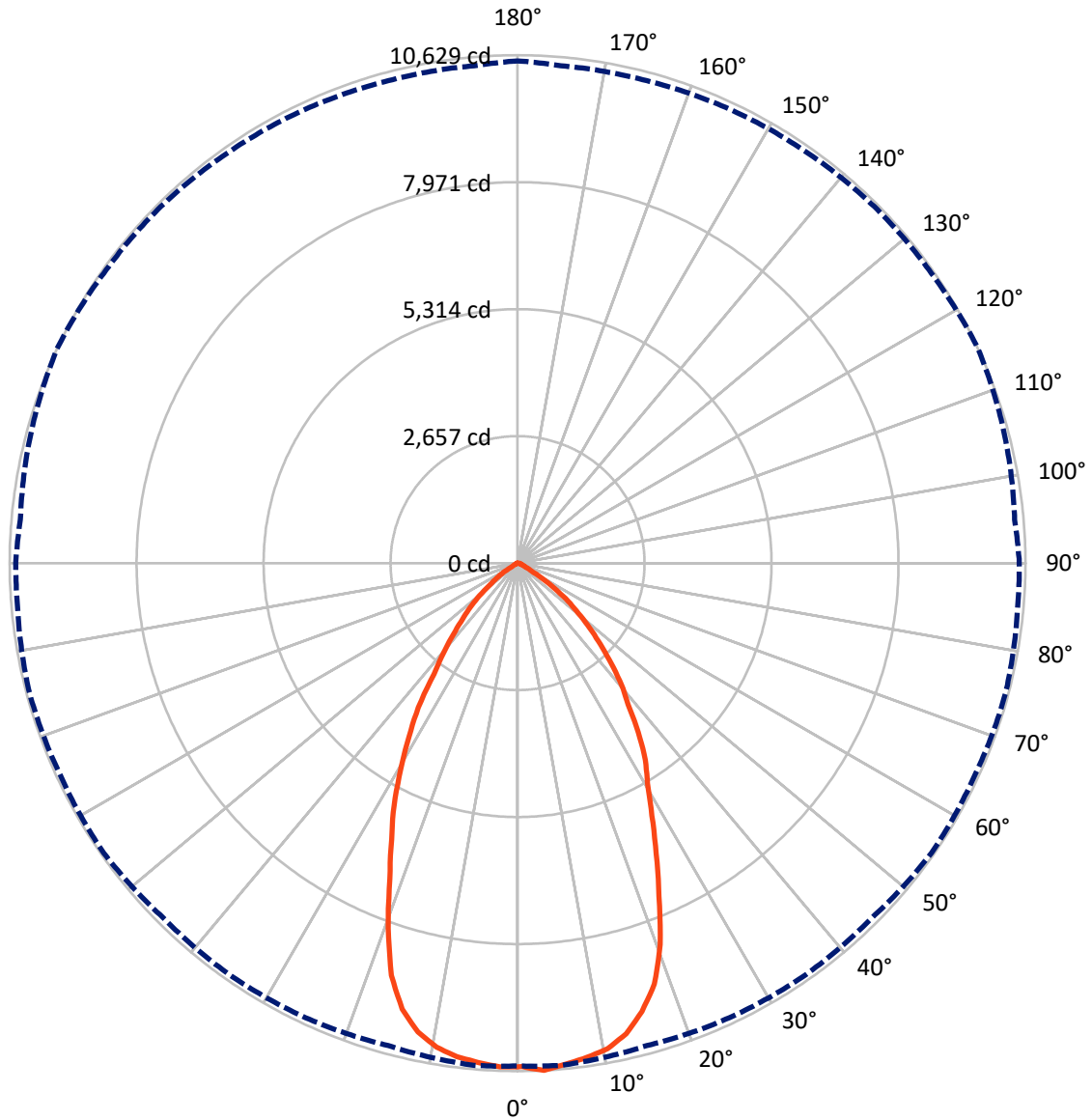
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6796.9 | 0.0 | 6796.9 |
| | % Fixture | 57.2 | 0.0 | 57.2 |
| Street Side | Lumens | 5079.8 | 0.0 | 5079.8 |
| | % Fixture | 42.8 | 0.0 | 42.8 |
| Total | Lumens | 11876.6 | 0.0 | 11876.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 992.5 | 8.4 |
| 10°-20° | 2631.6 | 22.2 |
| 20°-30° | 3010.0 | 25.3 |
| 30°-40° | 2579.5 | 21.7 |
| 40°-50° | 1705.7 | 14.4 |
| 50°-60° | 744.3 | 6.3 |
| 60°-70° | 146.2 | 1.2 |
| 70°-80° | 52.8 | 0.4 |
| 80°-90° | 14.0 | 0.1 |
| 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° | 11876.6 | 100.0 |
| 0°-180° | 11876.6 | 100.0 |



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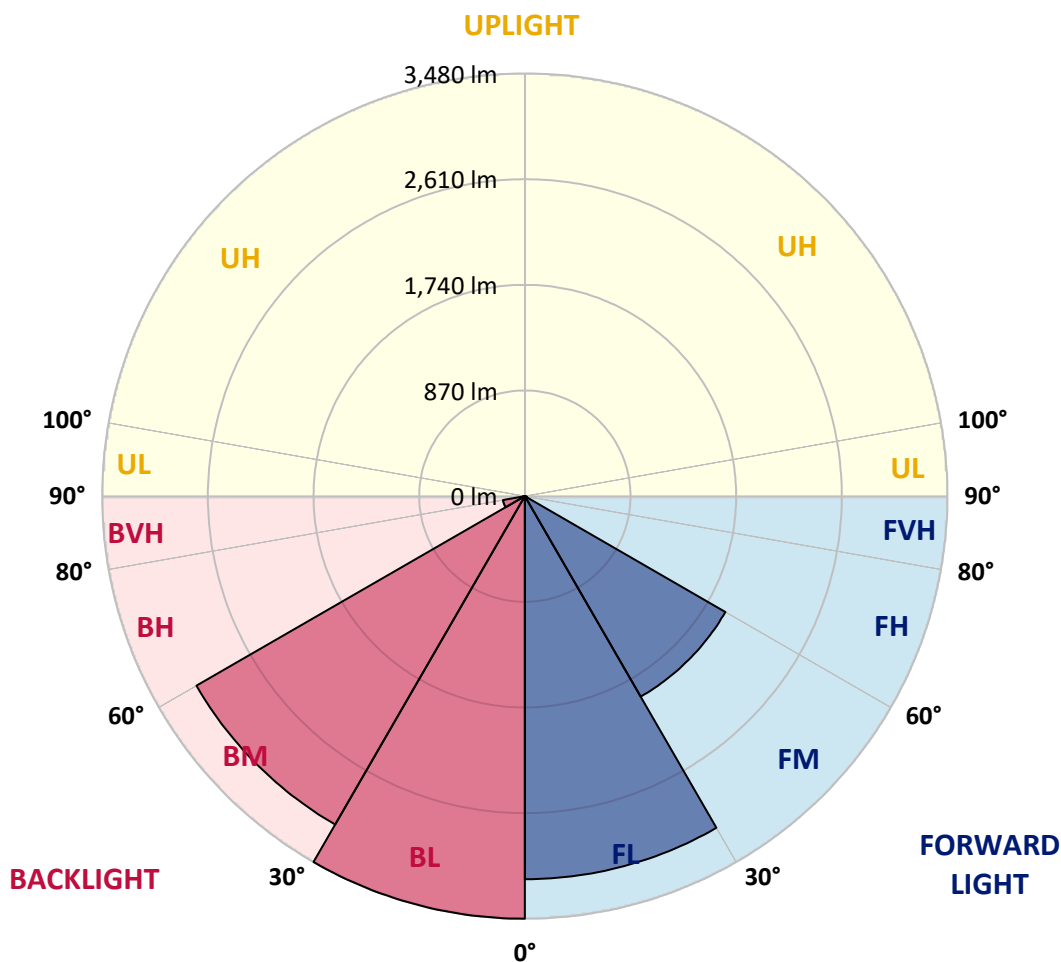
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3154.2 | 26.6 | | | |
| FM (30°-60°) | 1907.1 | 16.1 | | | |
| FH (60°-80°) | 16.1 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 2.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 3480.0 | 29.3 | B4/5000 | | |
| BM (30°-60°) | 3122.3 | 26.3 | B3/5000 | | |
| BH (60°-80°) | 182.9 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.7 | 0.1 | | | 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° | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 |
| 2.5° | 10522.4 | 10547.7 | 10451.8 | 10494.7 | 10512.3 | 10489.6 | 10572.9 | 10547.7 | 10567.9 | 10504.8 |
| 5° | 10522.4 | 10547.7 | 10436.6 | 10456.8 | 10461.9 | 10418.9 | 10509.8 | 10479.5 | 10482.0 | 10416.4 |
| 7.5° | 10456.8 | 10487.1 | 10386.1 | 10401.3 | 10403.8 | 10368.4 | 10446.7 | 10403.8 | 10388.6 | 10320.5 |
| 10° | 10280.1 | 10297.8 | 10206.9 | 10244.7 | 10280.1 | 10247.3 | 10315.4 | 10267.5 | 10267.5 | 10206.9 |
| 12.5° | 9999.9 | 10032.7 | 9931.7 | 9977.1 | 10007.4 | 9969.6 | 10047.8 | 10030.1 | 10032.7 | 9972.1 |
| 15° | 9489.9 | 9376.3 | 9497.5 | 9588.3 | 9590.9 | 9583.3 | 9656.5 | 9638.8 | 9651.5 | 9560.6 |
| 17.5° | 7010.8 | 6983.0 | 7124.4 | 8197.3 | 8995.1 | 9103.6 | 9116.3 | 9020.3 | 8977.4 | 8889.0 |
| 20° | 6495.7 | 6515.9 | 6485.6 | 6490.7 | 7119.3 | 8424.5 | 8346.3 | 8108.9 | 8000.4 | 7912.0 |
| 22.5° | 6119.6 | 6086.8 | 6066.6 | 6053.9 | 6071.6 | 6922.4 | 7485.4 | 7126.9 | 7068.8 | 7025.9 |
| 25° | 5710.6 | 5695.4 | 5670.2 | 5665.2 | 5655.1 | 5511.2 | 6321.5 | 6354.4 | 6261.0 | 6207.9 |
| 27.5° | 5329.4 | 5319.3 | 5291.5 | 5289.0 | 5172.9 | 4824.5 | 4912.8 | 5692.9 | 5667.7 | 5647.5 |
| 30° | 4922.9 | 4902.7 | 4887.6 | 4887.6 | 4536.7 | 4178.2 | 4034.3 | 4963.3 | 4963.3 | 4945.6 |
| 32.5° | 4481.1 | 4463.5 | 4468.5 | 4407.9 | 3988.8 | 3660.6 | 3433.4 | 4284.2 | 4549.3 | 4534.1 |
| 35° | 2739.2 | 2734.1 | 3246.6 | 3920.7 | 3428.4 | 3130.5 | 3115.3 | 3665.7 | 4051.9 | 4092.3 |
| 37.5° | 2438.7 | 2423.6 | 2431.2 | 2474.1 | 2936.1 | 2817.4 | 2812.4 | 2905.8 | 3448.6 | 3468.8 |
| 40° | 2188.8 | 2178.7 | 2171.1 | 2017.1 | 1870.7 | 2514.5 | 2496.8 | 2436.2 | 2946.2 | 2981.5 |
| 42.5° | 1951.5 | 1941.4 | 1941.4 | 1724.3 | 1487.0 | 2067.6 | 2075.2 | 2004.5 | 2484.2 | 2496.8 |
| 45° | 1706.6 | 1699.0 | 1656.1 | 1375.9 | 1307.7 | 1373.4 | 1719.2 | 1638.5 | 1971.7 | 2103.0 |
| 47.5° | 805.3 | 800.3 | 1158.8 | 1143.6 | 1138.6 | 1098.2 | 1312.8 | 1358.2 | 1565.2 | 1696.5 |
| 50° | 646.3 | 641.2 | 610.9 | 537.7 | 936.6 | 833.1 | 946.7 | 1045.2 | 1110.8 | 1232.0 |
| 52.5° | 535.2 | 530.2 | 467.0 | 414.0 | 520.1 | 608.4 | 565.5 | 699.3 | 696.8 | 828.1 |
| 55° | 350.9 | 325.7 | 358.5 | 338.3 | 272.7 | 441.8 | 431.7 | 530.2 | 517.5 | 631.1 |
| 57.5° | 7.6 | 7.6 | 17.7 | 191.9 | 171.7 | 186.8 | 247.4 | 302.9 | 340.8 | 373.6 |
| 60° | 2.5 | 2.5 | 5.0 | 10.1 | 70.7 | 78.3 | 95.9 | 111.1 | 156.5 | 194.4 |
| 62.5° | 0.0 | 0.0 | 2.5 | 5.0 | 10.1 | 40.4 | 45.4 | 53.0 | 73.2 | 101.0 |
| 65° | 0.0 | 0.0 | 0.0 | 2.5 | 5.0 | 10.1 | 15.1 | 32.8 | 45.4 | 58.1 |
| 67.5° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | 10.1 | 15.1 | 20.2 | 40.4 |
| 70° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | 7.6 | 10.1 | 15.1 | 20.2 |
| 72.5° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 7.6 | 5.0 | 7.6 | 10.1 | 12.6 |
| 75° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 2.5 | 5.0 | 7.6 | 7.6 | 10.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 2.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 7.6 |
| 80° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | 7.6 | 10.1 | 5.0 | 5.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 5.0 | 2.5 | 10.1 | 15.1 | 12.6 | 5.0 | 2.5 |
| 85° | 0.0 | 0.0 | 0.0 | 2.5 | 10.1 | 12.6 | 12.6 | 7.6 | 2.5 | 2.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | 7.6 | 7.6 | 2.5 | 2.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P636600

CATALOG NUMBER: IFLD-S-SA3D-930-U-66-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10537.6 | 0° | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 | 10537.6 |
| 10499.7 | 2.5° | 10441.7 | 10540.1 | 10628.5 | 10572.9 | 10552.7 | 10512.3 | 10482.0 | 10449.2 | 10446.7 |
| 10408.8 | 5° | 10350.8 | 10444.2 | 10530.0 | 10464.4 | 10469.4 | 10449.2 | 10429.0 | 10421.5 | 10426.5 |
| 10315.4 | 7.5° | 10272.5 | 10350.8 | 10444.2 | 10388.6 | 10403.8 | 10391.2 | 10381.1 | 10365.9 | 10388.6 |
| 10194.2 | 10° | 10153.9 | 10224.5 | 10333.1 | 10280.1 | 10272.5 | 10259.9 | 10249.8 | 10222.0 | 10234.6 |
| 9974.6 | 12.5° | 9893.8 | 9982.2 | 10105.9 | 10045.3 | 10065.5 | 10030.1 | 10015.0 | 9997.3 | 9999.9 |
| 9593.4 | 15° | 9540.4 | 9608.5 | 9734.8 | 9686.8 | 9702.0 | 9679.2 | 9679.2 | 9679.2 | 9696.9 |
| 8901.7 | 17.5° | 8924.4 | 9063.2 | 9262.7 | 9202.1 | 9224.8 | 9229.9 | 9224.8 | 9242.5 | 9265.2 |
| 7917.1 | 20° | 7922.1 | 8159.4 | 8523.0 | 8641.6 | 8689.6 | 8692.1 | 8656.8 | 8699.7 | 8745.1 |
| 6995.6 | 22.5° | 7000.7 | 7250.6 | 7571.2 | 7896.9 | 8098.8 | 8088.7 | 8093.8 | 8121.6 | 8169.5 |
| 6175.1 | 25° | 6202.9 | 6442.7 | 6733.0 | 7023.4 | 7465.2 | 7556.1 | 7558.6 | 7583.8 | 7621.7 |
| 5614.7 | 27.5° | 5627.3 | 5720.7 | 5985.8 | 6278.6 | 6753.2 | 7043.6 | 7028.4 | 7051.1 | 7091.5 |
| 4912.8 | 30° | 4933.0 | 5291.5 | 5352.1 | 5531.4 | 5940.3 | 6473.0 | 6475.5 | 6500.8 | 6541.2 |
| 4498.8 | 32.5° | 4486.2 | 4723.5 | 4910.3 | 4915.4 | 5263.7 | 5811.6 | 5920.1 | 5945.4 | 5973.2 |
| 4069.6 | 35° | 4067.1 | 4094.9 | 4347.3 | 4418.0 | 4620.0 | 5162.8 | 5354.6 | 5369.8 | 5415.2 |
| 3461.2 | 37.5° | 3519.3 | 3683.4 | 3754.0 | 4006.5 | 4016.6 | 4455.9 | 4837.1 | 4821.9 | 4857.3 |
| 2979.0 | 40° | 3016.9 | 3173.4 | 3352.6 | 3536.9 | 3562.2 | 3890.4 | 4312.0 | 4327.1 | 4342.3 |
| 2471.6 | 42.5° | 2491.8 | 2691.2 | 2875.5 | 2999.2 | 3170.9 | 3360.2 | 3761.6 | 3832.3 | 3867.7 |
| 2118.1 | 45° | 2156.0 | 2211.5 | 2431.2 | 2612.9 | 2787.1 | 2875.5 | 3251.7 | 3380.4 | 3403.1 |
| 1676.3 | 47.5° | 1699.0 | 1885.9 | 2034.8 | 2188.8 | 2405.9 | 2484.2 | 2756.8 | 2936.1 | 2953.8 |
| 1244.6 | 50° | 1312.8 | 1446.6 | 1651.1 | 1789.9 | 2042.4 | 2085.3 | 2272.1 | 2504.4 | 2527.1 |
| 833.1 | 52.5° | 939.1 | 1120.9 | 1320.4 | 1454.2 | 1696.5 | 1752.1 | 1890.9 | 2113.1 | 2128.2 |
| 638.7 | 55° | 674.1 | 792.7 | 956.8 | 1148.7 | 1325.4 | 1449.1 | 1545.0 | 1757.1 | 1777.3 |
| 419.1 | 57.5° | 459.5 | 570.6 | 638.7 | 830.6 | 936.6 | 1070.4 | 1148.7 | 1310.3 | 1325.4 |
| 199.4 | 60° | 219.6 | 272.7 | 325.7 | 421.6 | 489.8 | 603.4 | 653.9 | 719.5 | 737.2 |
| 121.2 | 62.5° | 141.4 | 166.6 | 212.1 | 252.5 | 318.1 | 388.8 | 409.0 | 464.5 | 484.7 |
| 75.7 | 65° | 93.4 | 118.7 | 166.6 | 176.7 | 242.4 | 297.9 | 323.1 | 363.5 | 386.3 |
| 45.4 | 67.5° | 53.0 | 83.3 | 123.7 | 146.4 | 191.9 | 244.9 | 272.7 | 308.0 | 328.2 |
| 30.3 | 70° | 35.3 | 68.2 | 98.5 | 121.2 | 151.5 | 196.9 | 232.3 | 262.6 | 275.2 |
| 15.1 | 72.5° | 20.2 | 42.9 | 68.2 | 95.9 | 121.2 | 164.1 | 196.9 | 222.2 | 146.4 |
| 10.1 | 75° | 12.6 | 32.8 | 58.1 | 80.8 | 101.0 | 131.3 | 159.0 | 156.5 | 65.6 |
| 7.6 | 77.5° | 10.1 | 25.2 | 50.5 | 68.2 | 83.3 | 90.9 | 113.6 | 128.8 | 50.5 |
| 5.0 | 80° | 7.6 | 20.2 | 45.4 | 58.1 | 32.8 | 65.6 | 88.4 | 95.9 | 35.3 |
| 5.0 | 82.5° | 5.0 | 12.6 | 37.9 | 40.4 | 22.7 | 48.0 | 70.7 | 63.1 | 25.2 |
| 2.5 | 85° | 2.5 | 7.6 | 12.6 | 22.7 | 20.2 | 22.7 | 17.7 | 25.2 | 17.7 |
| 2.5 | 87.5° | 2.5 | 5.0 | 10.1 | 10.1 | 10.1 | 7.6 | 10.1 | 10.1 | 10.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|---------|
| 10537.6 |
| 10507.3 |
| 10489.6 |
| 10451.8 |
| 10295.2 |
| 10073.1 |
| 9704.5 |
| 9340.9 |
| 8775.4 |
| 8177.1 |
| 7687.3 |
| 7129.4 |
| 6611.9 |
| 6036.3 |
| 5463.2 |
| 4900.2 |
| 4390.2 |
| 3918.1 |
| 3458.7 |
| 2996.7 |
| 2559.9 |
| 2156.0 |
| 1795.0 |
| 1355.7 |
| 757.4 |
| 489.8 |
| 386.3 |
| 325.7 |
| 272.7 |
| 118.7 |
| 65.6 |
| 50.5 |
| 37.9 |
| 25.2 |
| 17.7 |
| 10.1 |
| 0.0 |

(END OF REPORT)