

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: P636751

Luminaire Tested: **IFLD-S-SA6E-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636751
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26047.9 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

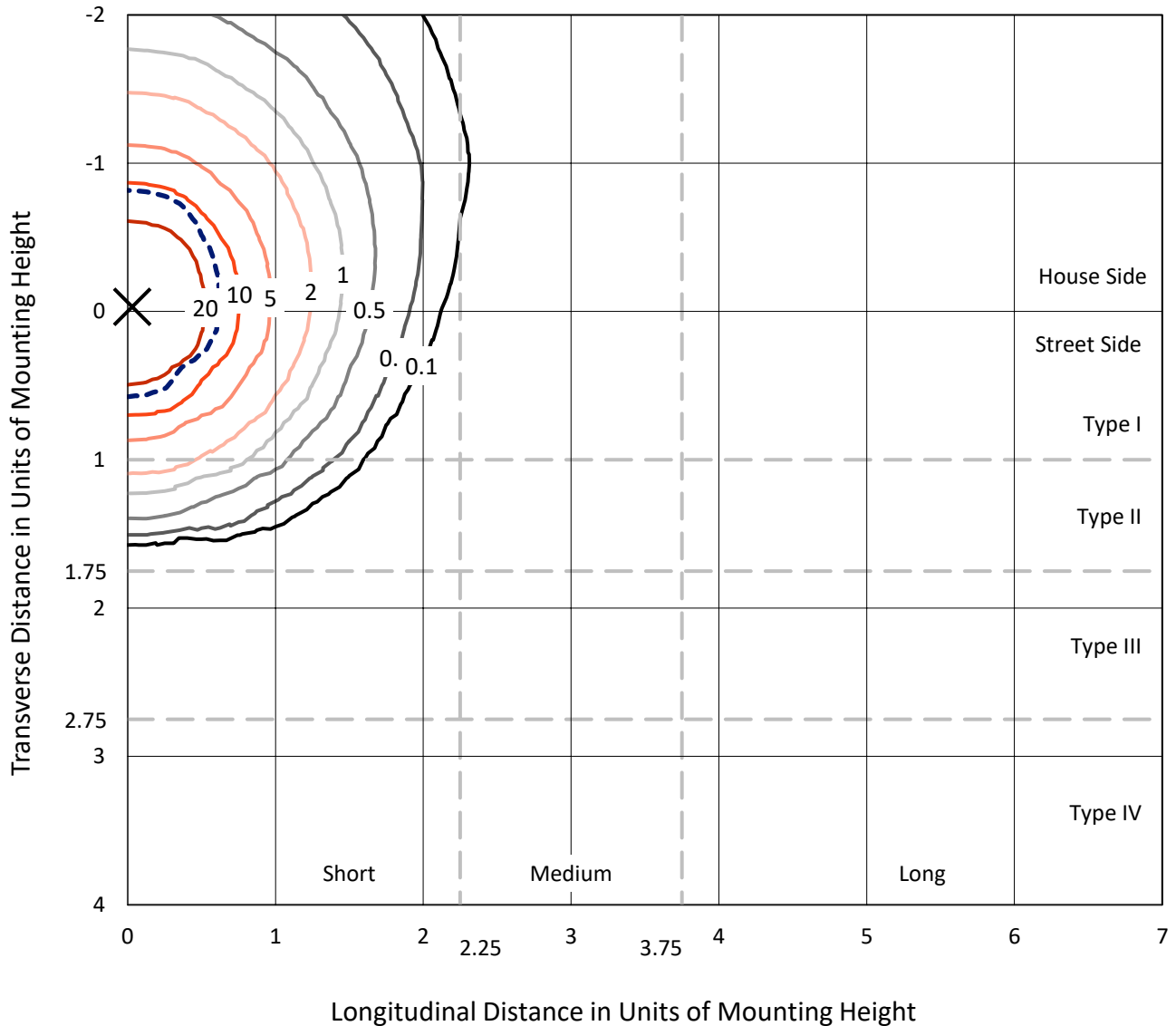
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

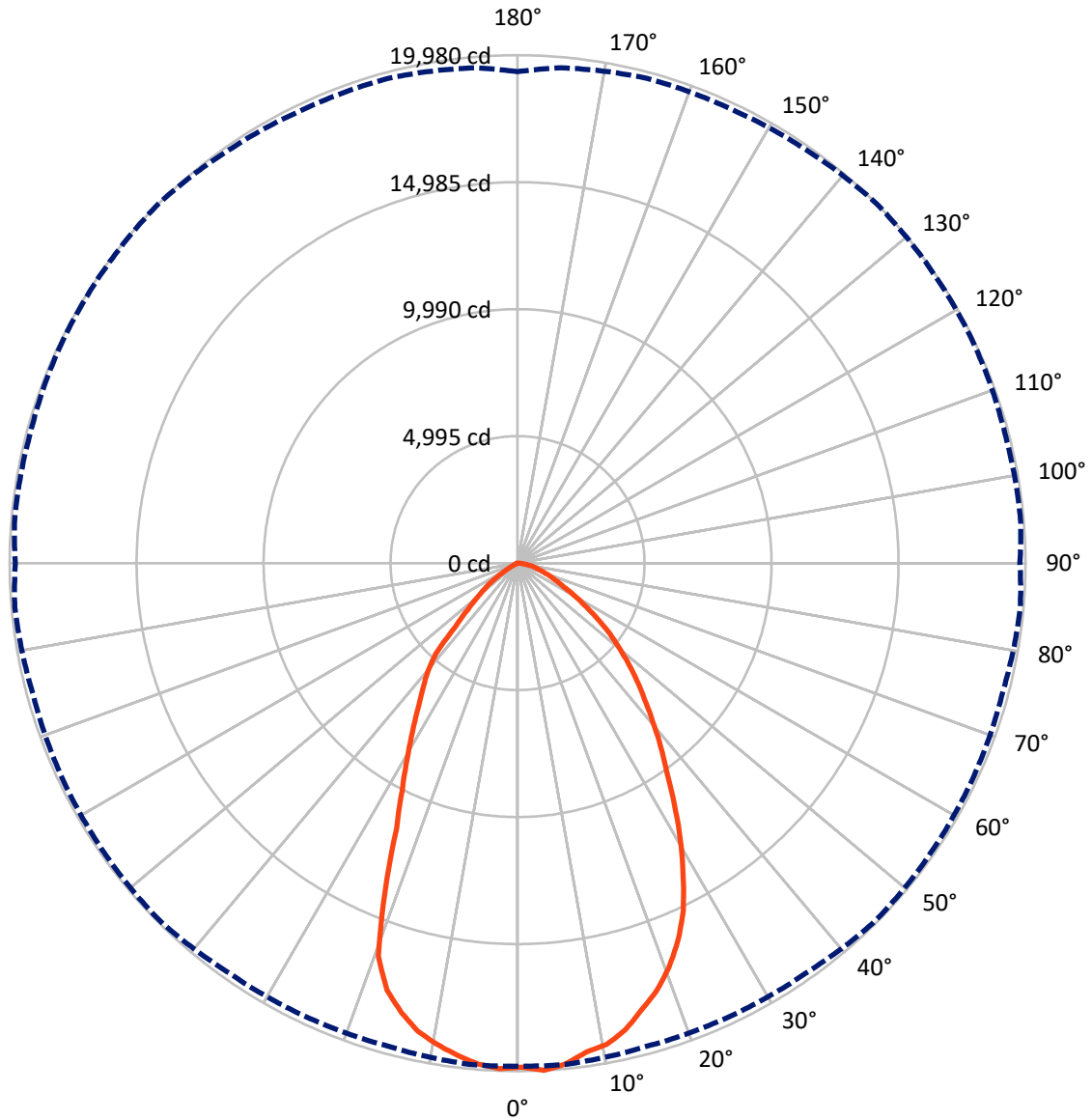
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.6 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 | 15426.9 | 0.0 | 15426.9 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 10621.0 | 0.0 | 10621.0 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 26047.9 | 0.0 | 26047.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1859.0 | 7.1 |
| 10°-20° | 4985.1 | 19.1 |
| 20°-30° | 6079.6 | 23.3 |
| 30°-40° | 5550.6 | 21.3 |
| 40°-50° | 4011.3 | 15.4 |
| 50°-60° | 2190.2 | 8.4 |
| 60°-70° | 905.6 | 3.5 |
| 70°-80° | 366.8 | 1.4 |
| 80°-90° | 99.8 | 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° | 26047.9 | 100.0 |
| 0°-180° | 26047.9 | 100.0 |



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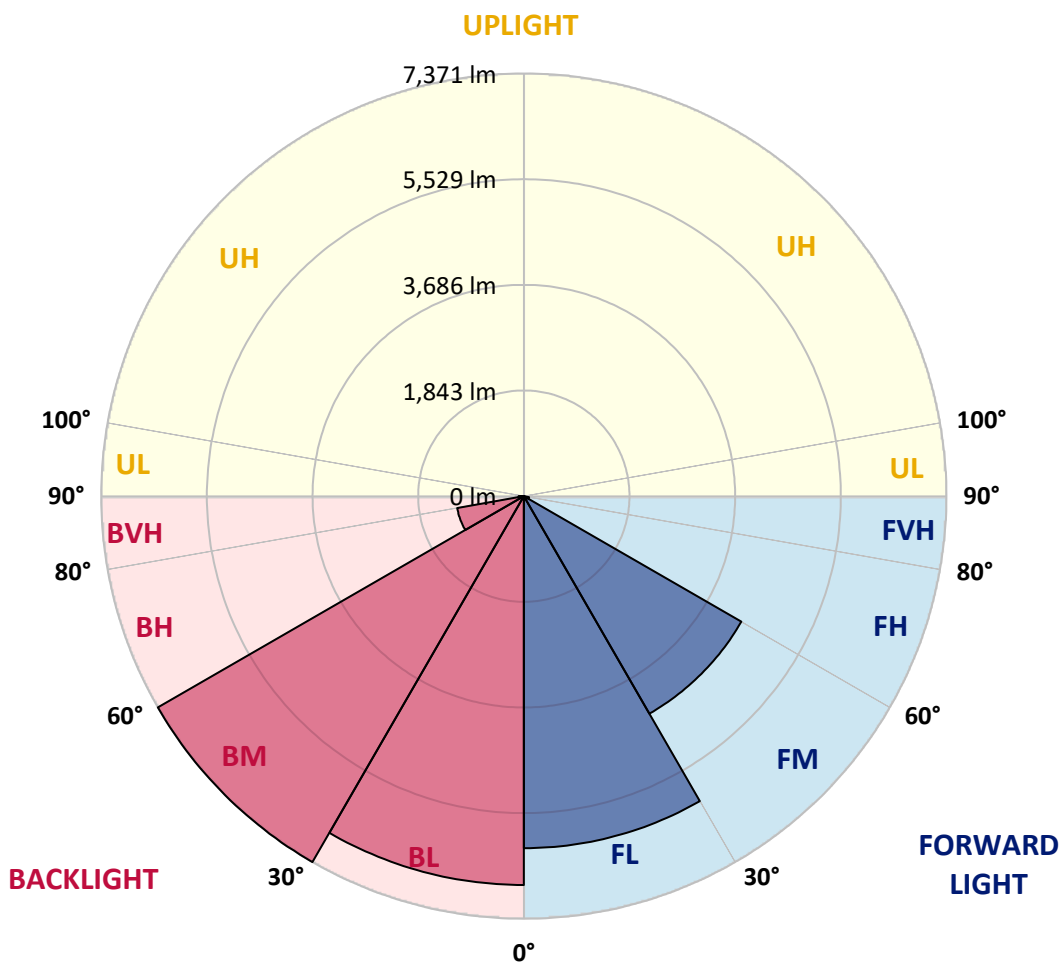
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6140.5 | 23.6 | | | |
| FM (30°-60°) | 4380.8 | 16.8 | | | |
| FH (60°-80°) | 91.8 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 8.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 6783.2 | 26.0 | B5 | | |
| BM (30°-60°) | 7371.3 | 28.3 | B4/8500 | | |
| BH (60°-80°) | 1180.5 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 91.8 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 |
| 2.5° | 19785.7 | 19811.4 | 19672.0 | 19686.6 | 19712.3 | 19899.4 | 19851.7 | 19807.7 | 19745.3 | 19851.7 |
| 5° | 19760.0 | 19774.7 | 19628.0 | 19576.6 | 19598.6 | 19767.3 | 19613.3 | 19613.3 | 19598.6 | 19580.3 |
| 7.5° | 19561.9 | 19569.3 | 19455.6 | 19363.9 | 19422.5 | 19499.6 | 19385.9 | 19440.9 | 19360.2 | 19422.5 |
| 10° | 19264.8 | 19217.1 | 19081.4 | 19055.7 | 19121.8 | 19195.1 | 19118.1 | 19169.4 | 19096.1 | 19143.8 |
| 12.5° | 18828.3 | 18754.9 | 18644.9 | 18611.9 | 18725.6 | 18824.6 | 18762.3 | 18732.9 | 18637.6 | 18754.9 |
| 15° | 17144.7 | 17089.6 | 17339.1 | 17775.6 | 18168.1 | 18252.4 | 18186.4 | 18215.7 | 18017.7 | 18050.7 |
| 17.5° | 14111.1 | 14008.4 | 14276.2 | 15310.6 | 16785.2 | 17562.8 | 17504.1 | 17313.4 | 17019.9 | 17086.0 |
| 20° | 12823.6 | 12794.3 | 12765.0 | 13010.7 | 14041.5 | 16400.0 | 16480.7 | 15996.5 | 15578.4 | 15486.7 |
| 22.5° | 12097.4 | 12086.4 | 12057.0 | 12112.0 | 12383.5 | 13898.4 | 14822.8 | 14375.2 | 14096.5 | 14070.8 |
| 25° | 11433.4 | 11415.1 | 11327.1 | 11396.8 | 11396.8 | 11484.8 | 12669.6 | 12941.0 | 12695.3 | 12665.9 |
| 27.5° | 10758.5 | 10725.5 | 10710.8 | 10743.8 | 10575.1 | 9980.9 | 10281.7 | 11605.8 | 11477.5 | 11484.8 |
| 30° | 10028.6 | 10017.6 | 9977.2 | 10046.9 | 9526.0 | 8788.7 | 8598.0 | 10395.4 | 10421.0 | 10413.7 |
| 32.5° | 8942.8 | 8990.5 | 9173.9 | 9250.9 | 8392.6 | 7783.7 | 7464.6 | 8994.2 | 9518.7 | 9507.7 |
| 35° | 6496.2 | 6496.2 | 7094.1 | 8205.5 | 7354.5 | 6896.0 | 6723.6 | 7626.0 | 8627.3 | 8664.0 |
| 37.5° | 5340.7 | 5359.1 | 5476.5 | 5982.7 | 6345.8 | 6184.4 | 6133.0 | 6419.2 | 7482.9 | 7541.6 |
| 40° | 4805.2 | 4805.2 | 4805.2 | 4596.1 | 4585.1 | 5571.8 | 5542.5 | 5450.8 | 6463.2 | 6591.6 |
| 42.5° | 4317.3 | 4328.3 | 4335.7 | 3807.5 | 3514.0 | 4816.2 | 4750.2 | 4610.8 | 5549.8 | 5700.2 |
| 45° | 3814.8 | 3833.2 | 3855.2 | 3183.9 | 3055.5 | 3466.3 | 4020.2 | 3866.2 | 4647.5 | 4841.9 |
| 47.5° | 2329.2 | 2358.6 | 2857.4 | 2699.7 | 2714.4 | 2674.0 | 3279.3 | 3253.6 | 3811.1 | 4086.3 |
| 50° | 1573.6 | 1584.6 | 1632.3 | 1713.0 | 2329.2 | 2101.8 | 2321.9 | 2692.4 | 2894.1 | 3312.3 |
| 52.5° | 1320.5 | 1338.9 | 1221.5 | 1111.4 | 1529.6 | 1643.3 | 1621.3 | 1999.1 | 2079.8 | 2597.0 |
| 55° | 928.0 | 986.7 | 931.7 | 920.7 | 869.3 | 1276.5 | 1228.8 | 1536.9 | 1588.3 | 1973.4 |
| 57.5° | 95.4 | 110.0 | 190.7 | 685.9 | 568.6 | 722.6 | 876.7 | 1126.1 | 1177.5 | 1456.2 |
| 60° | 7.3 | 7.3 | 18.3 | 95.4 | 414.5 | 432.8 | 605.2 | 693.3 | 792.3 | 1016.1 |
| 62.5° | 0.0 | 3.7 | 7.3 | 14.7 | 66.0 | 231.1 | 304.5 | 363.1 | 476.9 | 656.6 |
| 65° | 0.0 | 0.0 | 3.7 | 11.0 | 14.7 | 88.0 | 117.4 | 190.7 | 260.4 | 407.2 |
| 67.5° | 0.0 | 0.0 | 3.7 | 7.3 | 11.0 | 22.0 | 40.3 | 69.7 | 139.4 | 231.1 |
| 70° | 0.0 | 0.0 | 3.7 | 7.3 | 11.0 | 18.3 | 29.3 | 44.0 | 62.4 | 124.7 |
| 72.5° | 0.0 | 0.0 | 3.7 | 3.7 | 7.3 | 18.3 | 22.0 | 29.3 | 44.0 | 62.4 |
| 75° | 0.0 | 0.0 | 3.7 | 3.7 | 11.0 | 22.0 | 18.3 | 22.0 | 29.3 | 40.3 |
| 77.5° | 0.0 | 0.0 | 3.7 | 7.3 | 11.0 | 22.0 | 18.3 | 22.0 | 22.0 | 25.7 |
| 80° | 0.0 | 0.0 | 3.7 | 7.3 | 14.7 | 25.7 | 22.0 | 22.0 | 18.3 | 18.3 |
| 82.5° | 0.0 | 0.0 | 3.7 | 11.0 | 14.7 | 33.0 | 33.0 | 29.3 | 14.7 | 11.0 |
| 85° | 0.0 | 0.0 | 7.3 | 14.7 | 22.0 | 36.7 | 36.7 | 29.3 | 11.0 | 7.3 |
| 87.5° | 0.0 | 0.0 | 7.3 | 11.0 | 18.3 | 25.7 | 36.7 | 29.3 | 11.0 | 3.7 |
| 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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CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 19822.4 | 0° | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 | 19822.4 |
| 19760.0 | 2.5° | 19859.0 | 19837.0 | 19910.4 | 19939.7 | 19980.1 | 19826.0 | 19730.7 | 19734.3 | 19558.3 |
| 19536.3 | 5° | 19653.6 | 19657.3 | 19752.7 | 19745.3 | 19785.7 | 19701.3 | 19664.6 | 19602.3 | 19448.2 |
| 19253.8 | 7.5° | 19393.2 | 19360.2 | 19451.9 | 19521.6 | 19418.9 | 19477.6 | 19393.2 | 19422.5 | 19330.8 |
| 19004.4 | 10° | 19191.5 | 19114.4 | 19198.8 | 19246.5 | 19250.1 | 19191.5 | 19110.8 | 19033.7 | 19000.7 |
| 18615.6 | 12.5° | 18743.9 | 18644.9 | 18788.0 | 18854.0 | 18843.0 | 18729.3 | 18637.6 | 18655.9 | 18549.5 |
| 17933.3 | 15° | 18127.7 | 18131.4 | 18234.1 | 18296.4 | 18237.7 | 18212.1 | 18219.4 | 18175.4 | 18083.7 |
| 16990.6 | 17.5° | 17185.0 | 17240.0 | 17511.5 | 17661.9 | 17694.9 | 17643.5 | 17617.8 | 17566.5 | 17474.8 |
| 15486.7 | 20° | 15615.1 | 15945.2 | 16429.4 | 16895.2 | 16986.9 | 16972.3 | 16880.6 | 16858.5 | 16807.2 |
| 13997.4 | 22.5° | 14235.9 | 14481.6 | 15042.8 | 15769.1 | 16143.3 | 16179.9 | 16069.9 | 16036.9 | 15981.9 |
| 12665.9 | 25° | 12809.0 | 13073.1 | 13579.3 | 14367.9 | 15141.9 | 15299.6 | 15281.3 | 15182.2 | 15123.5 |
| 11484.8 | 27.5° | 11605.8 | 11869.9 | 12328.5 | 13040.1 | 13869.1 | 14375.2 | 14422.9 | 14265.2 | 14261.5 |
| 10432.1 | 30° | 10520.1 | 10883.2 | 11231.7 | 11811.3 | 12614.6 | 13373.9 | 13454.6 | 13344.5 | 13355.5 |
| 9467.3 | 32.5° | 9669.1 | 9969.9 | 10267.0 | 10655.8 | 11323.4 | 12207.4 | 12522.9 | 12420.2 | 12379.8 |
| 8664.0 | 35° | 8799.8 | 9005.2 | 9309.6 | 9665.4 | 10120.3 | 10996.9 | 11543.5 | 11466.5 | 11426.1 |
| 7578.3 | 37.5° | 7809.4 | 8161.5 | 8381.6 | 8781.4 | 9137.2 | 9834.2 | 10604.5 | 10593.4 | 10509.1 |
| 6653.9 | 40° | 6793.3 | 7163.8 | 7497.6 | 7901.1 | 8176.2 | 8730.1 | 9584.7 | 9581.1 | 9592.1 |
| 5696.5 | 42.5° | 5872.6 | 6213.7 | 6617.2 | 7057.4 | 7321.5 | 7725.0 | 8642.0 | 8693.4 | 8755.7 |
| 4907.9 | 45° | 5040.0 | 5348.1 | 5722.2 | 6257.8 | 6576.9 | 6808.0 | 7622.3 | 7857.1 | 7853.4 |
| 4203.6 | 47.5° | 4291.7 | 4581.4 | 4896.9 | 5417.8 | 5824.9 | 6034.0 | 6708.9 | 7042.7 | 7020.7 |
| 3448.0 | 50° | 3602.1 | 3858.8 | 4189.0 | 4566.8 | 5113.3 | 5296.7 | 5799.3 | 6239.4 | 6206.4 |
| 2747.4 | 52.5° | 2897.8 | 3253.6 | 3532.4 | 3877.2 | 4453.1 | 4632.8 | 5021.6 | 5450.8 | 5425.1 |
| 2061.5 | 55° | 2259.5 | 2604.3 | 2941.8 | 3238.9 | 3723.1 | 3990.9 | 4269.7 | 4709.8 | 4702.5 |
| 1614.0 | 57.5° | 1709.3 | 2087.1 | 2406.3 | 2688.7 | 3073.9 | 3404.0 | 3627.7 | 4027.6 | 4078.9 |
| 1104.1 | 60° | 1265.5 | 1555.3 | 1900.1 | 2215.5 | 2520.0 | 2861.1 | 3011.5 | 3404.0 | 3426.0 |
| 755.6 | 62.5° | 862.0 | 1181.1 | 1518.6 | 1804.7 | 2032.1 | 2384.3 | 2520.0 | 2842.8 | 2883.1 |
| 484.2 | 65° | 597.9 | 803.3 | 1188.5 | 1393.9 | 1672.6 | 1973.4 | 2109.2 | 2365.9 | 2446.6 |
| 278.8 | 67.5° | 396.2 | 572.2 | 928.0 | 1115.1 | 1390.2 | 1595.6 | 1768.0 | 1977.1 | 2065.1 |
| 176.1 | 70° | 216.4 | 421.8 | 663.9 | 880.3 | 1118.8 | 1316.8 | 1485.6 | 1654.3 | 1731.3 |
| 80.7 | 72.5° | 146.7 | 282.4 | 462.2 | 696.9 | 902.4 | 1096.8 | 1247.2 | 1371.9 | 1375.5 |
| 47.7 | 75° | 73.4 | 190.7 | 352.1 | 539.2 | 704.3 | 895.0 | 1030.7 | 1104.1 | 1016.1 |
| 29.3 | 77.5° | 44.0 | 139.4 | 286.1 | 432.8 | 572.2 | 722.6 | 799.6 | 840.0 | 696.9 |
| 22.0 | 80° | 25.7 | 99.0 | 223.8 | 344.8 | 396.2 | 531.9 | 605.2 | 616.2 | 465.8 |
| 14.7 | 82.5° | 18.3 | 73.4 | 176.1 | 253.1 | 242.1 | 374.1 | 454.8 | 440.2 | 297.1 |
| 11.0 | 85° | 11.0 | 51.4 | 110.0 | 157.7 | 146.7 | 245.8 | 264.1 | 271.4 | 172.4 |
| 7.3 | 87.5° | 7.3 | 29.3 | 58.7 | 84.4 | 69.7 | 106.4 | 106.4 | 128.4 | 84.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|---------|
| 19822.4 |
| 19330.8 |
| 19411.5 |
| 19176.8 |
| 18854.0 |
| 18457.8 |
| 17992.0 |
| 17434.4 |
| 16689.8 |
| 15967.2 |
| 15061.2 |
| 14254.2 |
| 13300.5 |
| 12383.5 |
| 11371.1 |
| 10578.8 |
| 9592.1 |
| 8722.7 |
| 7860.7 |
| 7028.1 |
| 6235.8 |
| 5480.1 |
| 4720.8 |
| 4056.9 |
| 3459.0 |
| 2890.5 |
| 2428.3 |
| 2054.1 |
| 1702.0 |
| 1342.5 |
| 950.0 |
| 671.3 |
| 436.5 |
| 275.1 |
| 157.7 |
| 73.4 |
| 0.0 |

(END OF REPORT)