

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: P637419

Luminaire Tested: **IFLD-M-SA4A-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637419
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18219.3 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

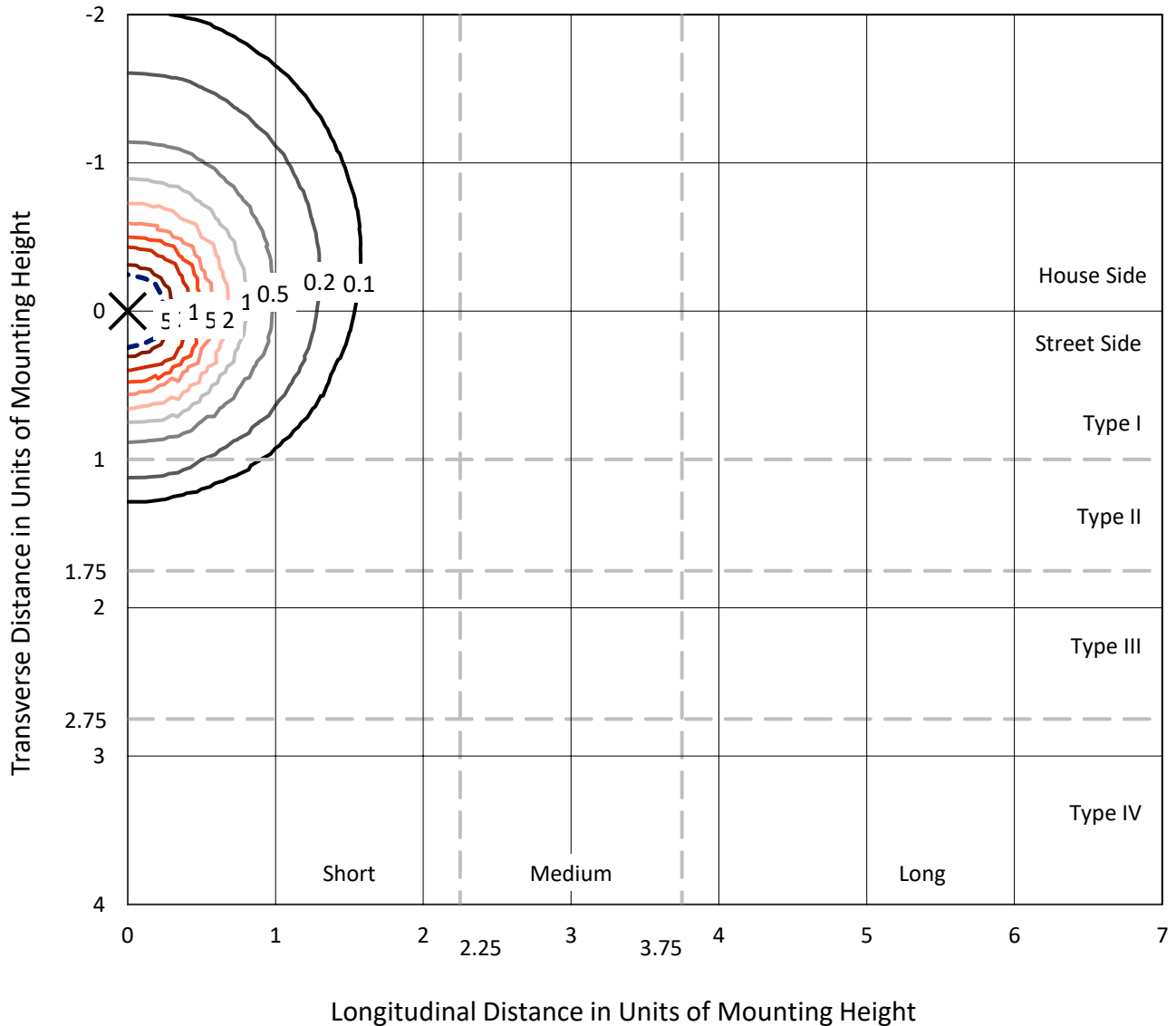
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

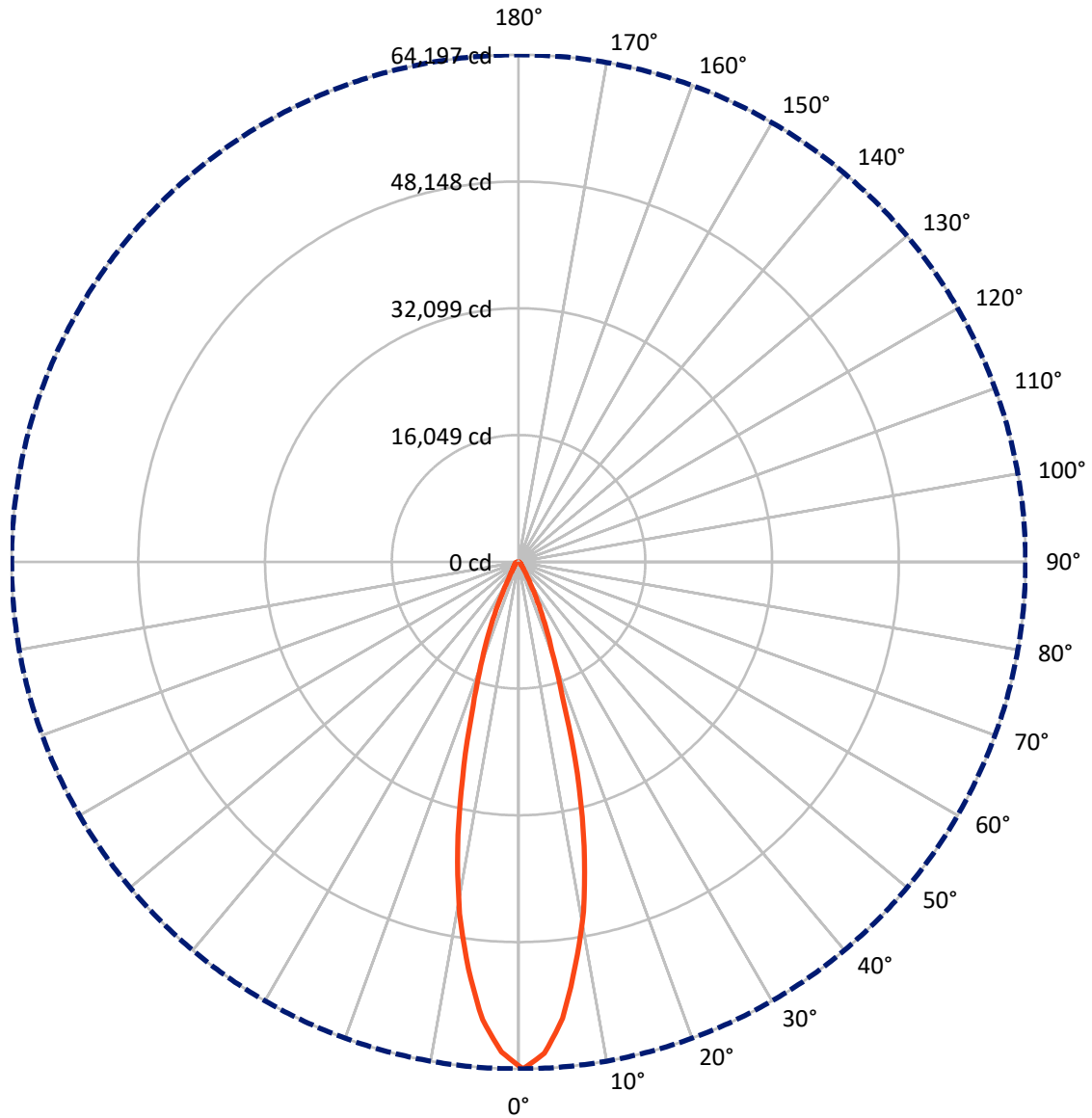
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 160.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9606.5 | 0.0 | 9606.5 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 8612.9 | 0.0 | 8612.9 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 18219.3 | 0.0 | 18219.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 5181.3 | 28.4 |
| 10°-20° | 7847.0 | 43.1 |
| 20°-30° | 3311.5 | 18.2 |
| 30°-40° | 863.7 | 4.7 |
| 40°-50° | 436.8 | 2.4 |
| 50°-60° | 285.5 | 1.6 |
| 60°-70° | 171.1 | 0.9 |
| 70°-80° | 90.0 | 0.5 |
| 80°-90° | 32.5 | 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° | 18219.3 | 100.0 |
| 0°-180° | 18219.3 | 100.0 |

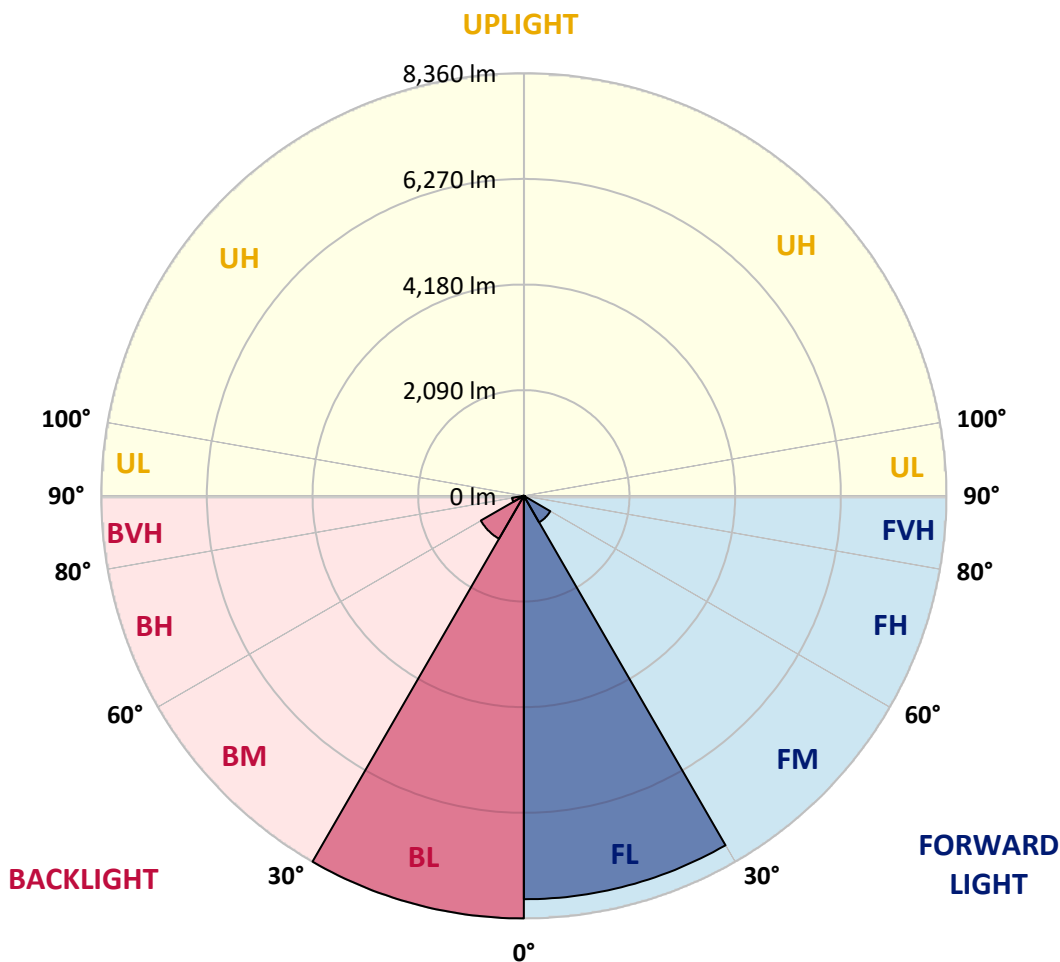


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 7980.0 | 43.8 | | | |
| FM (30°-60°) | 604.3 | 3.3 | | | |
| FH (60°-80°) | 24.6 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 3.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 8359.8 | 45.9 | B5 | | |
| BM (30°-60°) | 981.7 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 236.4 | 1.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 28.6 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 |
| 2.5° | 62327.0 | 62361.8 | 62232.9 | 62511.1 | 62294.3 | 62875.3 | 62586.8 | 63037.0 | 62885.6 | 63137.2 |
| 5° | 58071.2 | 58013.9 | 57977.1 | 58408.8 | 58284.0 | 58908.0 | 58509.0 | 58378.1 | 58783.2 | 58709.6 |
| 7.5° | 51644.5 | 51795.9 | 51710.0 | 51822.5 | 51886.0 | 52598.0 | 52823.1 | 52647.1 | 52653.2 | 52755.5 |
| 10° | 45056.2 | 44833.2 | 44516.1 | 44726.8 | 45172.8 | 45483.9 | 45359.0 | 45616.8 | 45559.6 | 45803.0 |
| 12.5° | 36949.7 | 37125.7 | 36947.7 | 36759.5 | 37539.0 | 37453.1 | 37670.0 | 37811.1 | 37457.2 | 38244.9 |
| 15° | 27832.5 | 27924.6 | 28141.5 | 28127.1 | 28726.6 | 28847.4 | 28818.7 | 28968.1 | 28691.9 | 28822.8 |
| 17.5° | 17880.5 | 18191.5 | 18774.6 | 19760.8 | 20869.8 | 20998.7 | 20965.9 | 20843.2 | 20710.2 | 20562.9 |
| 20° | 12010.4 | 11977.6 | 12188.4 | 12476.9 | 14772.5 | 15380.2 | 15361.8 | 14977.1 | 14420.6 | 14314.2 |
| 22.5° | 8413.4 | 8474.8 | 8446.1 | 8732.6 | 9207.3 | 10883.0 | 10676.3 | 10285.5 | 10103.4 | 9984.8 |
| 25° | 5534.6 | 5512.1 | 5655.3 | 5741.2 | 6148.4 | 6353.0 | 7077.3 | 6932.0 | 6651.7 | 6682.4 |
| 27.5° | 3373.9 | 3402.6 | 3455.8 | 3529.4 | 3817.9 | 3752.5 | 4165.8 | 4221.0 | 4131.0 | 4034.8 |
| 30° | 2070.6 | 2091.1 | 2134.0 | 2187.2 | 2287.5 | 2215.9 | 2330.5 | 2528.9 | 2496.2 | 2428.7 |
| 32.5° | 1405.6 | 1407.7 | 1438.4 | 1458.8 | 1446.6 | 1379.0 | 1415.9 | 1604.1 | 1608.2 | 1602.1 |
| 35° | 1010.8 | 1010.8 | 1039.4 | 1055.8 | 1021.0 | 965.7 | 971.9 | 1088.5 | 1139.7 | 1149.9 |
| 37.5° | 697.7 | 699.8 | 748.9 | 798.0 | 759.1 | 744.8 | 720.2 | 798.0 | 879.8 | 892.1 |
| 40° | 529.9 | 527.9 | 552.4 | 589.3 | 593.4 | 566.8 | 574.9 | 624.0 | 707.9 | 718.2 |
| 42.5° | 429.7 | 431.7 | 444.0 | 439.9 | 441.9 | 476.7 | 489.0 | 511.5 | 589.3 | 607.7 |
| 45° | 362.2 | 364.2 | 370.3 | 349.9 | 341.7 | 394.9 | 411.3 | 423.5 | 489.0 | 511.5 |
| 47.5° | 298.7 | 302.8 | 309.0 | 286.4 | 282.4 | 317.1 | 345.8 | 358.1 | 415.3 | 439.9 |
| 50° | 214.8 | 218.9 | 241.4 | 229.2 | 241.4 | 249.6 | 288.5 | 306.9 | 345.8 | 378.5 |
| 52.5° | 155.5 | 159.6 | 165.7 | 167.8 | 198.5 | 202.6 | 231.2 | 259.8 | 278.3 | 315.1 |
| 55° | 122.8 | 126.9 | 122.8 | 118.7 | 145.3 | 167.8 | 178.0 | 208.7 | 223.0 | 266.0 |
| 57.5° | 69.6 | 73.7 | 79.8 | 92.1 | 96.2 | 128.9 | 139.1 | 165.7 | 178.0 | 218.9 |
| 60° | 12.3 | 14.3 | 22.5 | 55.2 | 67.5 | 81.8 | 104.3 | 126.9 | 143.2 | 171.9 |
| 62.5° | 2.0 | 2.0 | 4.1 | 12.3 | 38.9 | 57.3 | 75.7 | 90.0 | 104.3 | 130.9 |
| 65° | 0.0 | 0.0 | 2.0 | 4.1 | 10.2 | 32.7 | 40.9 | 53.2 | 71.6 | 94.1 |
| 67.5° | 0.0 | 0.0 | 2.0 | 4.1 | 6.1 | 12.3 | 18.4 | 32.7 | 40.9 | 63.4 |
| 70° | 0.0 | 0.0 | 2.0 | 4.1 | 6.1 | 8.2 | 10.2 | 14.3 | 24.6 | 38.9 |
| 72.5° | 0.0 | 0.0 | 2.0 | 4.1 | 6.1 | 8.2 | 10.2 | 12.3 | 12.3 | 24.6 |
| 75° | 0.0 | 0.0 | 2.0 | 4.1 | 6.1 | 10.2 | 12.3 | 12.3 | 10.2 | 10.2 |
| 77.5° | 0.0 | 0.0 | 2.0 | 4.1 | 8.2 | 12.3 | 14.3 | 12.3 | 8.2 | 8.2 |
| 80° | 0.0 | 0.0 | 4.1 | 6.1 | 10.2 | 14.3 | 18.4 | 14.3 | 8.2 | 4.1 |
| 82.5° | 0.0 | 0.0 | 4.1 | 8.2 | 10.2 | 16.4 | 22.5 | 18.4 | 8.2 | 4.1 |
| 85° | 0.0 | 0.0 | 2.0 | 6.1 | 12.3 | 16.4 | 22.5 | 16.4 | 8.2 | 2.0 |
| 87.5° | 0.0 | 0.0 | 2.0 | 2.0 | 4.1 | 6.1 | 12.3 | 10.2 | 4.1 | 2.0 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 64197.1 | 0° | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 | 64197.1 |
| 62660.5 | 2.5° | 63020.6 | 63348.0 | 63415.5 | 63325.5 | 63456.4 | 63221.1 | 63041.1 | 62574.6 | 62294.3 |
| 58687.1 | 5° | 59065.6 | 59016.5 | 59358.2 | 59470.7 | 59456.4 | 59276.3 | 59024.7 | 58742.3 | 58468.1 |
| 52557.1 | 7.5° | 52884.4 | 52947.9 | 53258.9 | 53457.3 | 53357.1 | 53132.0 | 52958.1 | 52745.3 | 52561.2 |
| 45891.0 | 10° | 46310.5 | 45874.6 | 46261.4 | 46261.4 | 46529.4 | 45893.1 | 45952.4 | 45416.3 | 45440.9 |
| 38230.6 | 12.5° | 38361.5 | 38519.1 | 38582.5 | 38764.6 | 38451.6 | 38114.0 | 37700.6 | 37618.8 | 37363.0 |
| 28573.2 | 15° | 28984.4 | 29434.6 | 29047.9 | 29708.7 | 29389.6 | 29037.6 | 28974.2 | 28339.9 | 28540.5 |
| 20724.5 | 17.5° | 20622.2 | 21119.4 | 21274.9 | 21653.4 | 21362.9 | 21154.2 | 20890.2 | 20697.9 | 20683.6 |
| 14508.6 | 20° | 14623.2 | 15122.4 | 15237.0 | 15691.2 | 15658.5 | 15593.0 | 15370.0 | 15126.5 | 14862.6 |
| 9876.3 | 22.5° | 10025.7 | 10432.8 | 10813.4 | 11425.2 | 11415.0 | 11222.6 | 11200.1 | 10856.4 | 10862.5 |
| 6672.2 | 25° | 6741.8 | 7038.4 | 7128.5 | 7754.6 | 7824.1 | 7803.7 | 7687.0 | 7367.9 | 7488.6 |
| 4075.7 | 27.5° | 4079.8 | 4339.7 | 4644.5 | 4865.5 | 5074.2 | 5041.5 | 4924.9 | 4746.9 | 4669.1 |
| 2449.1 | 30° | 2514.6 | 2631.2 | 2743.8 | 3009.8 | 3134.6 | 3200.0 | 3144.8 | 2979.1 | 2991.3 |
| 1612.3 | 32.5° | 1647.1 | 1745.3 | 1827.1 | 1994.9 | 2060.4 | 2181.1 | 2158.6 | 2123.8 | 2082.9 |
| 1160.1 | 35° | 1201.0 | 1272.6 | 1327.9 | 1405.6 | 1489.5 | 1591.8 | 1608.2 | 1593.9 | 1577.5 |
| 896.2 | 37.5° | 916.6 | 990.3 | 1053.7 | 1086.5 | 1151.9 | 1231.7 | 1276.7 | 1274.7 | 1262.4 |
| 730.4 | 40° | 744.8 | 800.0 | 857.3 | 900.3 | 945.3 | 1004.6 | 1059.9 | 1066.0 | 1066.0 |
| 613.8 | 42.5° | 622.0 | 669.1 | 726.4 | 771.4 | 804.1 | 859.3 | 916.6 | 920.7 | 916.6 |
| 519.7 | 45° | 532.0 | 572.9 | 628.1 | 681.3 | 707.9 | 748.9 | 804.1 | 816.4 | 808.2 |
| 446.0 | 47.5° | 462.4 | 499.2 | 546.3 | 603.6 | 632.2 | 669.1 | 720.2 | 734.5 | 732.5 |
| 384.7 | 50° | 396.9 | 439.9 | 487.0 | 534.0 | 570.8 | 605.6 | 654.7 | 671.1 | 665.0 |
| 327.4 | 52.5° | 349.9 | 388.8 | 429.7 | 480.8 | 523.8 | 554.5 | 593.4 | 622.0 | 613.8 |
| 276.2 | 55° | 292.6 | 339.6 | 382.6 | 425.6 | 478.8 | 511.5 | 548.3 | 583.1 | 574.9 |
| 233.3 | 57.5° | 253.7 | 292.6 | 341.7 | 380.6 | 433.8 | 472.6 | 509.5 | 546.3 | 544.3 |
| 190.3 | 60° | 212.8 | 253.7 | 300.8 | 341.7 | 390.8 | 433.8 | 470.6 | 511.5 | 515.6 |
| 143.2 | 62.5° | 167.8 | 216.9 | 257.8 | 304.9 | 354.0 | 401.0 | 433.8 | 474.7 | 480.8 |
| 108.4 | 65° | 126.9 | 178.0 | 223.0 | 268.0 | 317.1 | 368.3 | 396.9 | 431.7 | 437.9 |
| 79.8 | 67.5° | 94.1 | 137.1 | 190.3 | 231.2 | 282.4 | 331.5 | 358.1 | 386.7 | 396.9 |
| 49.1 | 70° | 71.6 | 104.3 | 159.6 | 198.5 | 251.7 | 290.5 | 319.2 | 343.7 | 351.9 |
| 32.7 | 72.5° | 45.0 | 81.8 | 128.9 | 169.8 | 216.9 | 251.7 | 272.1 | 286.4 | 298.7 |
| 18.4 | 75° | 30.7 | 63.4 | 104.3 | 145.3 | 180.1 | 206.7 | 225.1 | 237.3 | 247.6 |
| 8.2 | 77.5° | 18.4 | 49.1 | 85.9 | 120.7 | 143.2 | 163.7 | 182.1 | 190.3 | 196.4 |
| 6.1 | 80° | 10.2 | 36.8 | 71.6 | 98.2 | 112.5 | 126.9 | 141.2 | 151.4 | 155.5 |
| 4.1 | 82.5° | 6.1 | 28.6 | 57.3 | 75.7 | 81.8 | 96.2 | 110.5 | 116.6 | 116.6 |
| 2.0 | 85° | 4.1 | 20.5 | 38.9 | 55.2 | 59.3 | 69.6 | 73.7 | 77.8 | 81.8 |
| 2.0 | 87.5° | 4.1 | 12.3 | 24.6 | 30.7 | 32.7 | 36.8 | 38.9 | 43.0 | 47.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
64197.1
62087.6
58161.2
51937.1
45201.5
37129.8
28339.9
20303.0
14748.0
10743.8
7298.3
4601.6
2938.1
2068.6
1571.4
1256.3
1053.7
912.5
808.2
728.4
660.9
611.8
579.0
546.3
517.7
484.9
444.0
401.0
356.0
296.7
245.5
194.4
151.4
114.6
79.8
45.0
0.0

(END OF REPORT)