

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: P637438

Luminaire Tested: **IFLD-S-SA3A-760-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637438  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-760-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13573.7 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

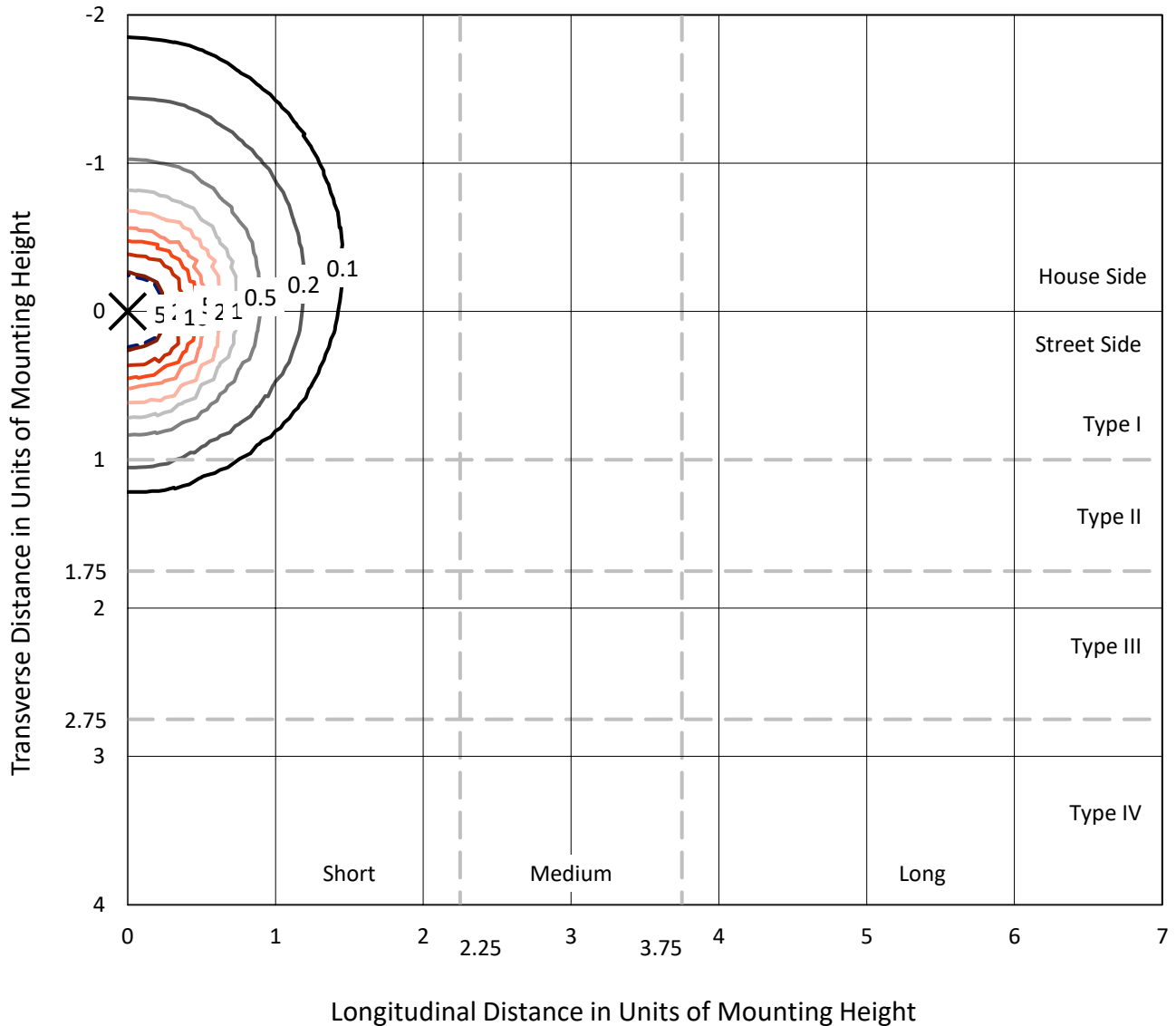
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

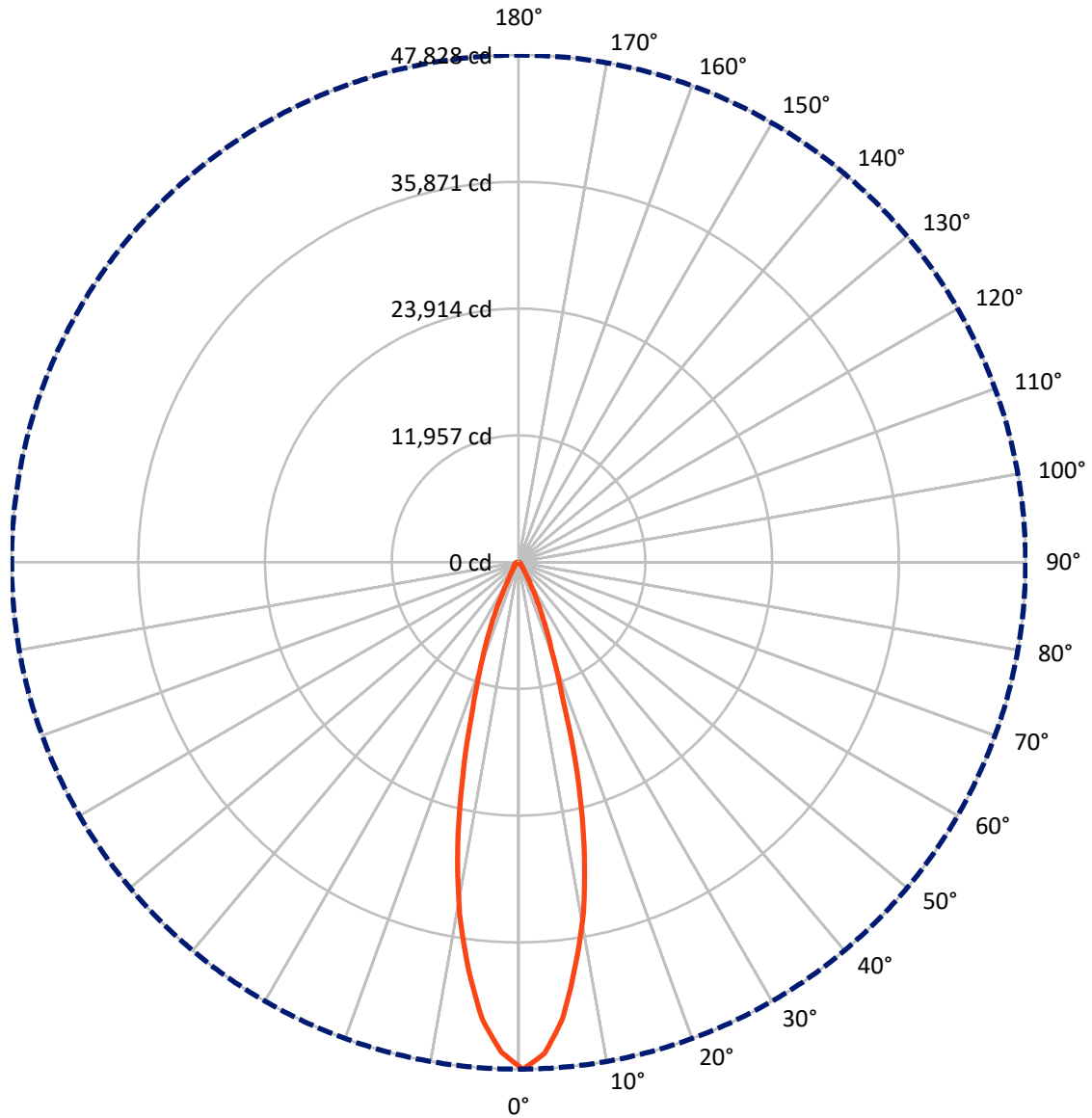
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 119.6 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7157.0   | 0.0    | 7157.0  |
|                    | % Fixture | 52.7     | 0.0    | 52.7    |
| <b>Street Side</b> | Lumens    | 6416.7   | 0.0    | 6416.7  |
|                    | % Fixture | 47.3     | 0.0    | 47.3    |
| <b>Total</b>       | Lumens    | 13573.7  | 0.0    | 13573.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3860.1  | 28.4      |
| 10°-20°   | 5846.2  | 43.1      |
| 20°-30°   | 2467.1  | 18.2      |
| 30°-40°   | 643.4   | 4.7       |
| 40°-50°   | 325.4   | 2.4       |
| 50°-60°   | 212.7   | 1.6       |
| 60°-70°   | 127.4   | 0.9       |
| 70°-80°   | 67.0    | 0.5       |
| 80°-90°   | 24.2    | 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°    | 13573.7 | 100.0     |
| 0°-180°   | 13573.7 | 100.0     |



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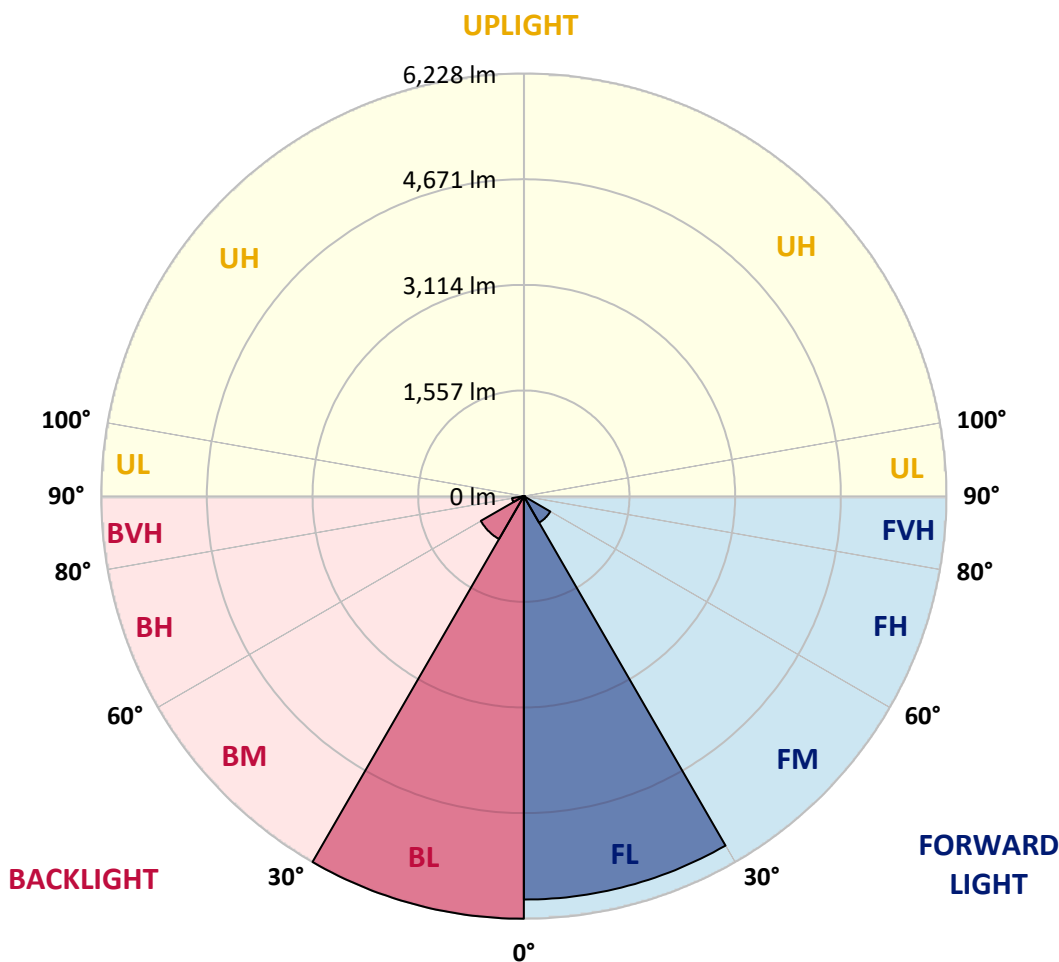
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 5945.2 | 43.8      |                         |      |        |
| FM (30°-60°)   | 450.2  | 3.3       |                         |      |        |
| FH (60°-80°)   | 18.3   | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.9    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 6228.2 | 45.9      | B5                      |      |        |
| BM (30°-60°)   | 731.4  | 5.4       | B1/1000                 |      |        |
| BH (60°-80°)   | 176.1  | 1.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 21.3   | 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°    | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 |
| 2.5°  | 46434.7 | 46460.7 | 46364.6 | 46571.9 | 46410.4 | 46843.3 | 46628.3 | 46963.7 | 46850.9 | 47038.4 |
| 5°    | 43264.1 | 43221.4 | 43194.0 | 43515.6 | 43422.6 | 43887.6 | 43590.3 | 43492.8 | 43794.6 | 43739.7 |
| 7.5°  | 38476.1 | 38588.9 | 38524.9 | 38608.7 | 38656.0 | 39186.5 | 39354.1 | 39223.0 | 39227.6 | 39303.8 |
| 10°   | 33567.7 | 33401.6 | 33165.3 | 33322.3 | 33654.6 | 33886.3 | 33793.3 | 33985.4 | 33942.7 | 34124.1 |
| 12.5° | 27528.2 | 27659.3 | 27526.7 | 27386.5 | 27967.2 | 27903.2 | 28064.8 | 28170.0 | 27906.3 | 28493.1 |
| 15°   | 20735.7 | 20804.3 | 20965.9 | 20955.2 | 21401.9 | 21491.8 | 21470.5 | 21581.7 | 21376.0 | 21473.5 |
| 17.5° | 13321.3 | 13553.0 | 13987.4 | 14722.2 | 15548.4 | 15644.4 | 15620.0 | 15528.6 | 15429.5 | 15319.7 |
| 20°   | 8947.9  | 8923.5  | 9080.6  | 9295.5  | 11005.8 | 11458.5 | 11444.8 | 11158.2 | 10743.6 | 10664.4 |
| 22.5° | 6268.1  | 6313.9  | 6292.5  | 6505.9  | 6859.6  | 8108.0  | 7954.1  | 7662.9  | 7527.2  | 7438.8  |
| 25°   | 4123.4  | 4106.6  | 4213.3  | 4277.3  | 4580.7  | 4733.1  | 5272.7  | 5164.5  | 4955.7  | 4978.5  |
| 27.5° | 2513.7  | 2535.0  | 2574.6  | 2629.5  | 2844.4  | 2795.7  | 3103.6  | 3144.7  | 3077.7  | 3006.0  |
| 30°   | 1542.6  | 1557.9  | 1589.9  | 1629.5  | 1704.2  | 1650.9  | 1736.2  | 1884.1  | 1859.7  | 1809.4  |
| 32.5° | 1047.2  | 1048.8  | 1071.6  | 1086.9  | 1077.7  | 1027.4  | 1054.9  | 1195.1  | 1198.1  | 1193.6  |
| 35°   | 753.0   | 753.0   | 774.4   | 786.6   | 760.7   | 719.5   | 724.1   | 811.0   | 849.1   | 856.7   |
| 37.5° | 519.8   | 521.3   | 557.9   | 594.5   | 565.5   | 554.9   | 536.6   | 594.5   | 655.5   | 664.6   |
| 40°   | 394.8   | 393.3   | 411.6   | 439.0   | 442.1   | 422.2   | 428.3   | 464.9   | 527.4   | 535.0   |
| 42.5° | 320.1   | 321.6   | 330.8   | 327.7   | 329.3   | 355.2   | 364.3   | 381.1   | 439.0   | 452.7   |
| 45°   | 269.8   | 271.3   | 275.9   | 260.7   | 254.6   | 294.2   | 306.4   | 315.5   | 364.3   | 381.1   |
| 47.5° | 222.6   | 225.6   | 230.2   | 213.4   | 210.4   | 236.3   | 257.6   | 266.8   | 309.4   | 327.7   |
| 50°   | 160.1   | 163.1   | 179.9   | 170.7   | 179.9   | 186.0   | 214.9   | 228.7   | 257.6   | 282.0   |
| 52.5° | 115.9   | 118.9   | 123.5   | 125.0   | 147.9   | 150.9   | 172.3   | 193.6   | 207.3   | 234.7   |
| 55°   | 91.5    | 94.5    | 91.5    | 88.4    | 108.2   | 125.0   | 132.6   | 155.5   | 166.2   | 198.2   |
| 57.5° | 51.8    | 54.9    | 59.4    | 68.6    | 71.6    | 96.0    | 103.7   | 123.5   | 132.6   | 163.1   |
| 60°   | 9.1     | 10.7    | 16.8    | 41.2    | 50.3    | 61.0    | 77.7    | 94.5    | 106.7   | 128.0   |
| 62.5° | 1.5     | 1.5     | 3.0     | 9.1     | 29.0    | 42.7    | 56.4    | 67.1    | 77.7    | 97.6    |
| 65°   | 0.0     | 0.0     | 1.5     | 3.0     | 7.6     | 24.4    | 30.5    | 39.6    | 53.4    | 70.1    |
| 67.5° | 0.0     | 0.0     | 1.5     | 3.0     | 4.6     | 9.1     | 13.7    | 24.4    | 30.5    | 47.3    |
| 70°   | 0.0     | 0.0     | 1.5     | 3.0     | 4.6     | 6.1     | 7.6     | 10.7    | 18.3    | 29.0    |
| 72.5° | 0.0     | 0.0     | 1.5     | 3.0     | 4.6     | 6.1     | 7.6     | 9.1     | 9.1     | 18.3    |
| 75°   | 0.0     | 0.0     | 1.5     | 3.0     | 4.6     | 7.6     | 9.1     | 9.1     | 7.6     | 7.6     |
| 77.5° | 0.0     | 0.0     | 1.5     | 3.0     | 6.1     | 9.1     | 10.7    | 9.1     | 6.1     | 6.1     |
| 80°   | 0.0     | 0.0     | 3.0     | 4.6     | 7.6     | 10.7    | 13.7    | 10.7    | 6.1     | 3.0     |
| 82.5° | 0.0     | 0.0     | 3.0     | 6.1     | 7.6     | 12.2    | 16.8    | 13.7    | 6.1     | 3.0     |
| 85°   | 0.0     | 0.0     | 1.5     | 4.6     | 9.1     | 12.2    | 16.8    | 12.2    | 6.1     | 1.5     |
| 87.5° | 0.0     | 0.0     | 1.5     | 1.5     | 3.0     | 4.6     | 9.1     | 7.6     | 3.0     | 1.5     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 47828.0 | 0°    | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 | 47828.0 |
| 46683.2 | 2.5°  | 46951.5 | 47195.4 | 47245.7 | 47178.6 | 47276.2 | 47100.9 | 46966.7 | 46619.2 | 46410.4 |
| 43722.9 | 5°    | 44004.9 | 43968.3 | 44222.9 | 44306.8 | 44296.1 | 44161.9 | 43974.4 | 43764.1 | 43559.8 |
| 39156.0 | 7.5°  | 39399.9 | 39447.1 | 39678.8 | 39826.7 | 39752.0 | 39584.3 | 39454.7 | 39296.2 | 39159.0 |
| 34189.6 | 10°   | 34502.1 | 34177.4 | 34465.6 | 34465.6 | 34665.2 | 34191.2 | 34235.4 | 33836.0 | 33854.3 |
| 28482.5 | 12.5° | 28580.0 | 28697.4 | 28744.7 | 28880.3 | 28647.1 | 28395.6 | 28087.7 | 28026.7 | 27836.2 |
| 21287.5 | 15°   | 21593.9 | 21929.3 | 21641.2 | 22133.6 | 21895.8 | 21633.6 | 21586.3 | 21113.8 | 21263.2 |
| 15440.1 | 17.5° | 15363.9 | 15734.3 | 15850.2 | 16132.2 | 15915.7 | 15760.3 | 15563.6 | 15420.3 | 15409.7 |
| 10809.2 | 20°   | 10894.5 | 11266.5 | 11351.8 | 11690.2 | 11665.8 | 11617.1 | 11450.9 | 11269.5 | 11072.9 |
| 7358.0  | 22.5° | 7469.3  | 7772.7  | 8056.2  | 8512.0  | 8504.3  | 8361.1  | 8344.3  | 8088.2  | 8092.8  |
| 4970.9  | 25°   | 5022.7  | 5243.8  | 5310.8  | 5777.3  | 5829.1  | 5813.9  | 5727.0  | 5489.2  | 5579.1  |
| 3036.5  | 27.5° | 3039.6  | 3233.1  | 3460.3  | 3624.9  | 3780.4  | 3756.0  | 3669.1  | 3536.5  | 3478.6  |
| 1824.6  | 30°   | 1873.4  | 1960.3  | 2044.2  | 2242.3  | 2335.3  | 2384.1  | 2342.9  | 2219.5  | 2228.6  |
| 1201.2  | 32.5° | 1227.1  | 1300.3  | 1361.2  | 1486.2  | 1535.0  | 1625.0  | 1608.2  | 1582.3  | 1551.8  |
| 864.3   | 35°   | 894.8   | 948.1   | 989.3   | 1047.2  | 1109.7  | 1185.9  | 1198.1  | 1187.5  | 1175.3  |
| 667.7   | 37.5° | 682.9   | 737.8   | 785.0   | 809.4   | 858.2   | 917.7   | 951.2   | 949.7   | 940.5   |
| 544.2   | 40°   | 554.9   | 596.0   | 638.7   | 670.7   | 704.2   | 748.5   | 789.6   | 794.2   | 794.2   |
| 457.3   | 42.5° | 463.4   | 498.5   | 541.1   | 574.7   | 599.1   | 640.2   | 682.9   | 686.0   | 682.9   |
| 387.2   | 45°   | 396.3   | 426.8   | 468.0   | 507.6   | 527.4   | 557.9   | 599.1   | 608.2   | 602.1   |
| 332.3   | 47.5° | 344.5   | 371.9   | 407.0   | 449.7   | 471.0   | 498.5   | 536.6   | 547.2   | 545.7   |
| 286.6   | 50°   | 295.7   | 327.7   | 362.8   | 397.9   | 425.3   | 451.2   | 487.8   | 500.0   | 495.4   |
| 243.9   | 52.5° | 260.7   | 289.6   | 320.1   | 358.2   | 390.2   | 413.1   | 442.1   | 463.4   | 457.3   |
| 205.8   | 55°   | 218.0   | 253.0   | 285.1   | 317.1   | 356.7   | 381.1   | 408.5   | 434.4   | 428.3   |
| 173.8   | 57.5° | 189.0   | 218.0   | 254.6   | 283.5   | 323.2   | 352.1   | 379.6   | 407.0   | 405.5   |
| 141.8   | 60°   | 158.5   | 189.0   | 224.1   | 254.6   | 291.2   | 323.2   | 350.6   | 381.1   | 384.1   |
| 106.7   | 62.5° | 125.0   | 161.6   | 192.1   | 227.1   | 263.7   | 298.8   | 323.2   | 353.6   | 358.2   |
| 80.8    | 65°   | 94.5    | 132.6   | 166.2   | 199.7   | 236.3   | 274.4   | 295.7   | 321.6   | 326.2   |
| 59.4    | 67.5° | 70.1    | 102.1   | 141.8   | 172.3   | 210.4   | 246.9   | 266.8   | 288.1   | 295.7   |
| 36.6    | 70°   | 53.4    | 77.7    | 118.9   | 147.9   | 187.5   | 216.5   | 237.8   | 256.1   | 262.2   |
| 24.4    | 72.5° | 33.5    | 61.0    | 96.0    | 126.5   | 161.6   | 187.5   | 202.7   | 213.4   | 222.6   |
| 13.7    | 75°   | 22.9    | 47.3    | 77.7    | 108.2   | 134.1   | 154.0   | 167.7   | 176.8   | 184.4   |
| 6.1     | 77.5° | 13.7    | 36.6    | 64.0    | 89.9    | 106.7   | 121.9   | 135.7   | 141.8   | 146.3   |
| 4.6     | 80°   | 7.6     | 27.4    | 53.4    | 73.2    | 83.8    | 94.5    | 105.2   | 112.8   | 115.9   |
| 3.0     | 82.5° | 4.6     | 21.3    | 42.7    | 56.4    | 61.0    | 71.6    | 82.3    | 86.9    | 86.9    |
| 1.5     | 85°   | 3.0     | 15.2    | 29.0    | 41.2    | 44.2    | 51.8    | 54.9    | 57.9    | 61.0    |
| 1.5     | 87.5° | 3.0     | 9.1     | 18.3    | 22.9    | 24.4    | 27.4    | 29.0    | 32.0    | 35.1    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





180°  
47828.0  
46256.4  
43331.2  
38694.1  
33675.9  
27662.4  
21113.8  
15126.1  
10987.5  
8004.4  
5437.4  
3428.3  
2189.0  
1541.1  
1170.7  
936.0  
785.0  
679.9  
602.1  
542.7  
492.4  
455.8  
431.4  
407.0  
385.7  
361.3  
330.8  
298.8  
265.2  
221.0  
182.9  
144.8  
112.8  
85.4  
59.4  
33.5  
0.0

(END OF REPORT)