

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: P637326

Luminaire Tested: **IFLD-S-SA3E-730-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637326  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-730-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23689.6 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

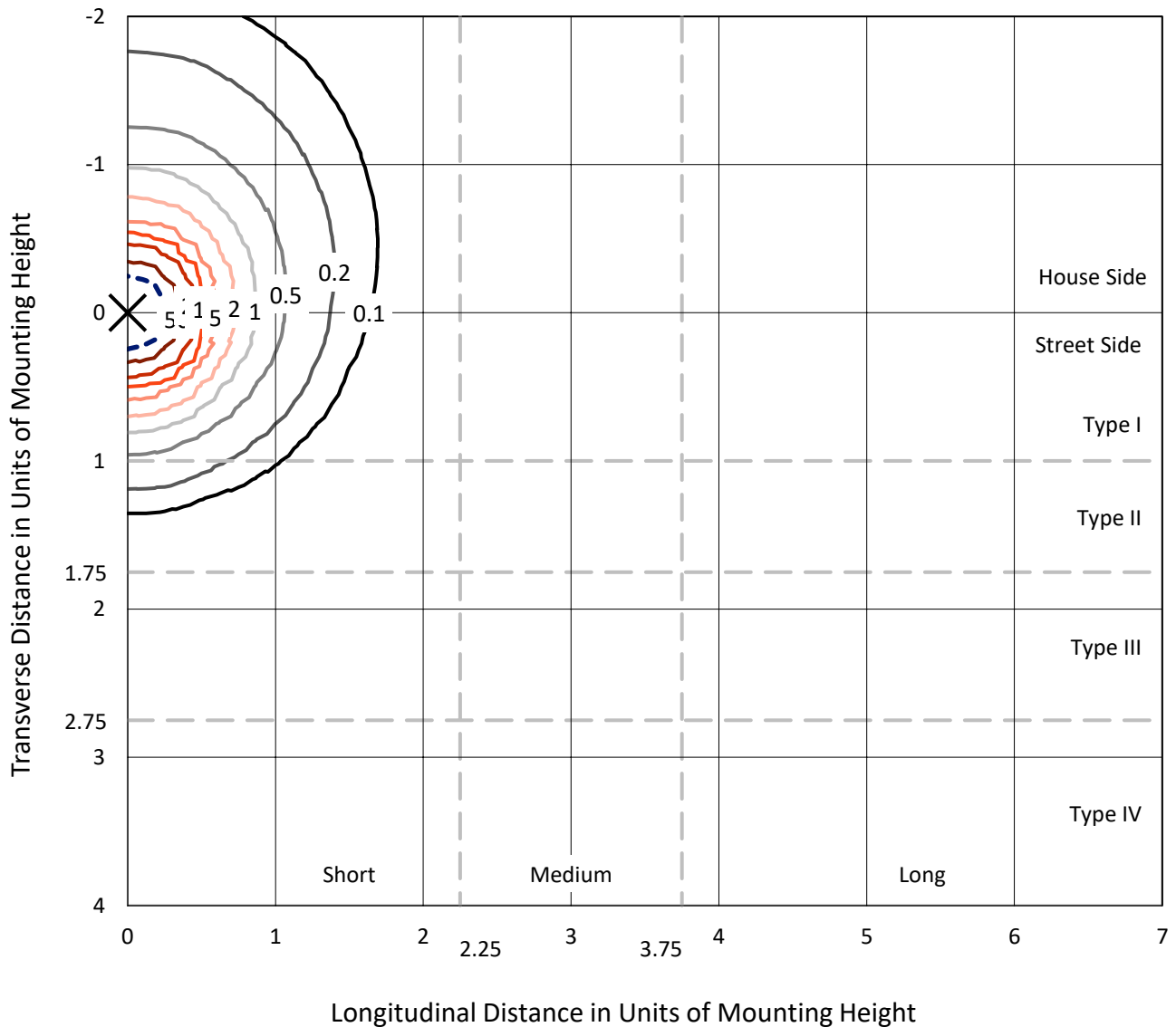
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

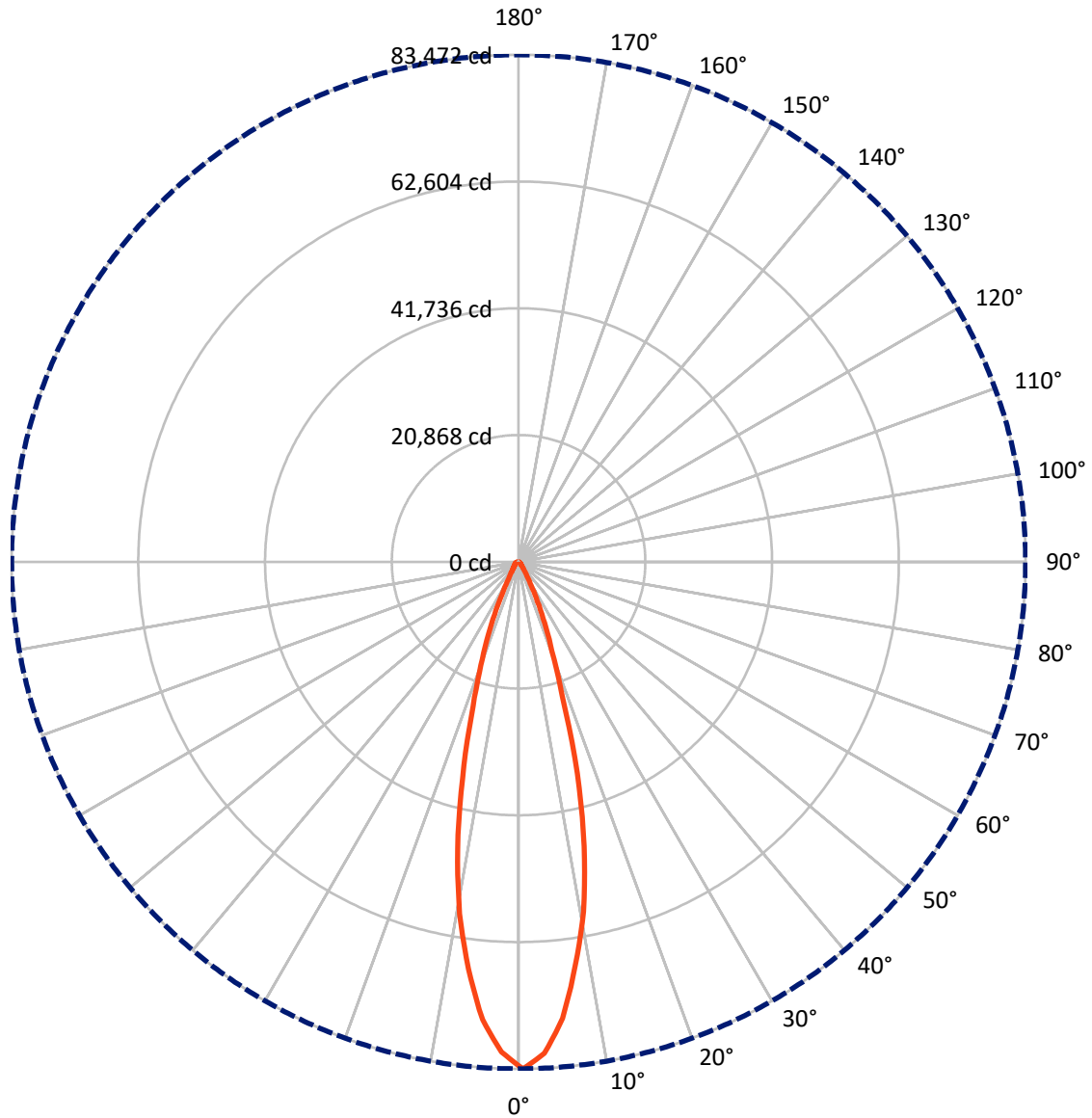
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 208.7 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    | 12490.7  | 0.0    | 12490.7 |
|                    | % Fixture | 52.7     | 0.0    | 52.7    |
| <b>Street Side</b> | Lumens    | 11198.8  | 0.0    | 11198.8 |
|                    | % Fixture | 47.3     | 0.0    | 47.3    |
| <b>Total</b>       | Lumens    | 23689.6  | 0.0    | 23689.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 6736.9  | 28.4      |
| 10°-20°   | 10203.0 | 43.1      |
| 20°-30°   | 4305.7  | 18.2      |
| 30°-40°   | 1123.0  | 4.7       |
| 40°-50°   | 568.0   | 2.4       |
| 50°-60°   | 371.3   | 1.6       |
| 60°-70°   | 222.4   | 0.9       |
| 70°-80°   | 117.0   | 0.5       |
| 80°-90°   | 42.3    | 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°    | 23689.6 | 100.0     |
| 0°-180°   | 23689.6 | 100.0     |

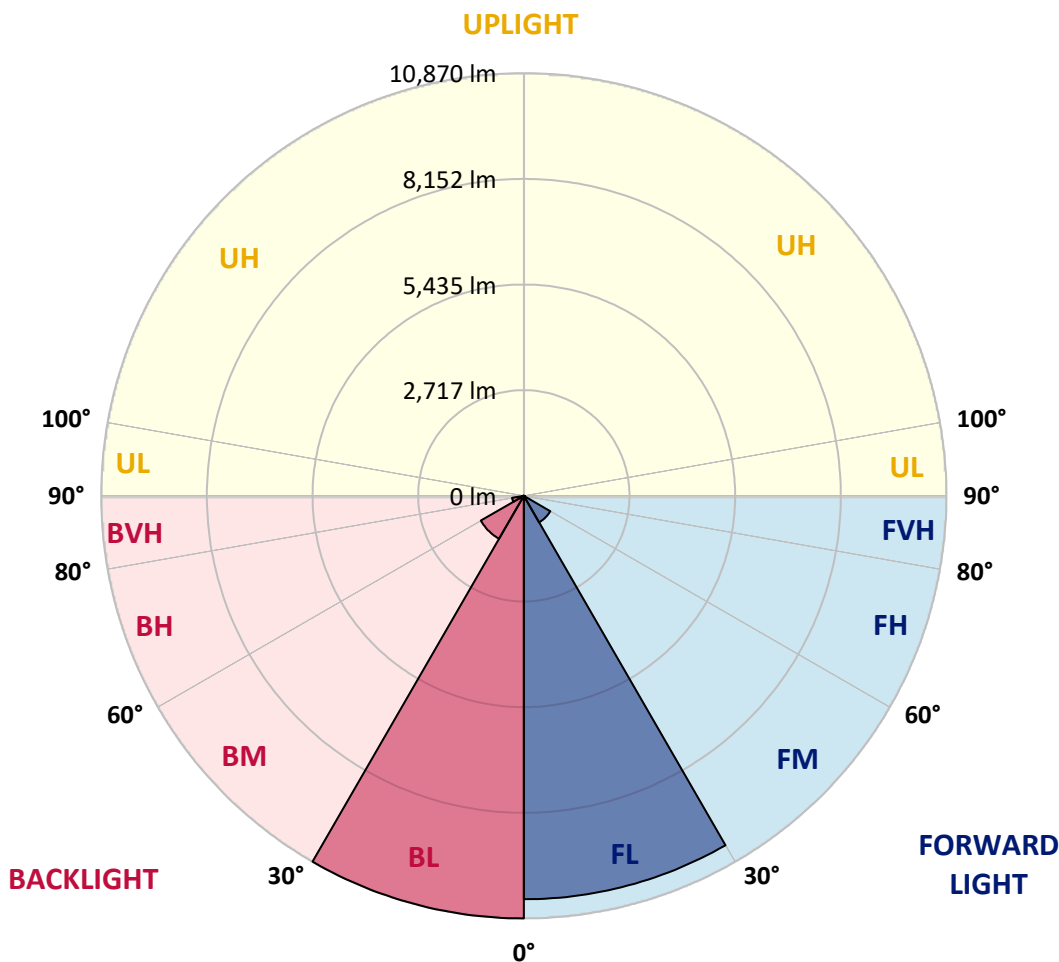


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 10375.9 | 43.8      |                         |      |        |
| FM (30°-60°)   | 785.8   | 3.3       |                         |      |        |
| FH (60°-80°)   | 32.0    | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 5.1     | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 10869.8 | 45.9      | B5                      |      |        |
| BM (30°-60°)   | 1276.4  | 5.4       | B2/2500                 |      |        |
| BH (60°-80°)   | 307.4   | 1.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 37.1    | 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°    | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 |
| 2.5°  | 81040.2 | 81085.4 | 80917.8 | 81279.6 | 80997.6 | 81753.2 | 81378.1 | 81963.3 | 81766.5 | 82093.7 |
| 5°    | 75506.6 | 75432.1 | 75384.3 | 75945.6 | 75783.3 | 76594.7 | 76075.9 | 75905.7 | 76432.4 | 76336.7 |
| 7.5°  | 67150.4 | 67347.3 | 67235.5 | 67381.9 | 67464.3 | 68390.1 | 68682.8 | 68454.0 | 68462.0 | 68595.0 |
| 10°   | 58584.0 | 58294.0 | 57881.7 | 58155.7 | 58735.7 | 59140.0 | 58977.7 | 59313.0 | 59238.5 | 59555.0 |
| 12.5° | 48043.6 | 48272.4 | 48041.0 | 47796.2 | 48809.8 | 48698.1 | 48980.1 | 49163.6 | 48703.4 | 49727.6 |
| 15°   | 36189.0 | 36308.7 | 36590.7 | 36572.1 | 37351.6 | 37508.6 | 37471.3 | 37665.5 | 37306.4 | 37476.6 |
| 17.5° | 23249.0 | 23653.4 | 24411.6 | 25693.9 | 27135.8 | 27303.4 | 27260.8 | 27101.2 | 26928.3 | 26736.7 |
| 20°   | 15616.4 | 15573.8 | 15847.8 | 16222.9 | 19207.9 | 19998.0 | 19974.1 | 19473.9 | 18750.3 | 18612.0 |
| 22.5° | 10939.4 | 11019.3 | 10982.0 | 11354.5 | 11971.7 | 14150.5 | 13881.8 | 13373.7 | 13136.9 | 12982.6 |
| 25°   | 7196.3  | 7167.0  | 7353.3  | 7465.0  | 7994.4  | 8260.4  | 9202.2  | 9013.3  | 8648.9  | 8688.8  |
| 27.5° | 4387.0  | 4424.2  | 4493.4  | 4589.1  | 4964.3  | 4879.1  | 5416.5  | 5488.3  | 5371.3  | 5246.3  |
| 30°   | 2692.3  | 2718.9  | 2774.8  | 2843.9  | 2974.3  | 2881.2  | 3030.2  | 3288.2  | 3245.7  | 3157.9  |
| 32.5° | 1827.7  | 1830.3  | 1870.2  | 1896.8  | 1880.9  | 1793.1  | 1841.0  | 2085.7  | 2091.1  | 2083.1  |
| 35°   | 1314.2  | 1314.2  | 1351.5  | 1372.8  | 1327.5  | 1255.7  | 1263.7  | 1415.3  | 1481.8  | 1495.1  |
| 37.5° | 907.2   | 909.8   | 973.7   | 1037.5  | 987.0   | 968.4   | 936.5   | 1037.5  | 1144.0  | 1159.9  |
| 40°   | 689.0   | 686.4   | 718.3   | 766.2   | 771.5   | 736.9   | 747.6   | 811.4   | 920.5   | 933.8   |
| 42.5° | 558.7   | 561.3   | 577.3   | 572.0   | 574.6   | 619.9   | 635.8   | 665.1   | 766.2   | 790.1   |
| 45°   | 470.9   | 473.5   | 481.5   | 454.9   | 444.3   | 513.5   | 534.7   | 550.7   | 635.8   | 665.1   |
| 47.5° | 388.4   | 393.7   | 401.7   | 372.5   | 367.1   | 412.4   | 449.6   | 465.6   | 540.1   | 572.0   |
| 50°   | 279.3   | 284.7   | 313.9   | 298.0   | 313.9   | 324.6   | 375.1   | 399.1   | 449.6   | 492.2   |
| 52.5° | 202.2   | 207.5   | 215.5   | 218.2   | 258.1   | 263.4   | 300.6   | 337.9   | 361.8   | 409.7   |
| 55°   | 159.6   | 164.9   | 159.6   | 154.3   | 188.9   | 218.2   | 231.5   | 271.4   | 290.0   | 345.8   |
| 57.5° | 90.5    | 95.8    | 103.8   | 119.7   | 125.0   | 167.6   | 180.9   | 215.5   | 231.5   | 284.7   |
| 60°   | 16.0    | 18.6    | 29.3    | 71.8    | 87.8    | 106.4   | 135.7   | 164.9   | 186.2   | 223.5   |
| 62.5° | 2.7     | 2.7     | 5.3     | 16.0    | 50.5    | 74.5    | 98.4    | 117.1   | 135.7   | 170.3   |
| 65°   | 0.0     | 0.0     | 2.7     | 5.3     | 13.3    | 42.6    | 53.2    | 69.2    | 93.1    | 122.4   |
| 67.5° | 0.0     | 0.0     | 2.7     | 5.3     | 8.0     | 16.0    | 23.9    | 42.6    | 53.2    | 82.5    |
| 70°   | 0.0     | 0.0     | 2.7     | 5.3     | 8.0     | 10.6    | 13.3    | 18.6    | 31.9    | 50.5    |
| 72.5° | 0.0     | 0.0     | 2.7     | 5.3     | 8.0     | 10.6    | 13.3    | 16.0    | 16.0    | 31.9    |
| 75°   | 0.0     | 0.0     | 2.7     | 5.3     | 8.0     | 13.3    | 16.0    | 16.0    | 13.3    | 13.3    |
| 77.5° | 0.0     | 0.0     | 2.7     | 5.3     | 10.6    | 16.0    | 18.6    | 16.0    | 10.6    | 10.6    |
| 80°   | 0.0     | 0.0     | 5.3     | 8.0     | 13.3    | 18.6    | 23.9    | 18.6    | 10.6    | 5.3     |
| 82.5° | 0.0     | 0.0     | 5.3     | 10.6    | 13.3    | 21.3    | 29.3    | 23.9    | 10.6    | 5.3     |
| 85°   | 0.0     | 0.0     | 2.7     | 8.0     | 16.0    | 21.3    | 29.3    | 21.3    | 10.6    | 2.7     |
| 87.5° | 0.0     | 0.0     | 2.7     | 2.7     | 5.3     | 8.0     | 16.0    | 13.3    | 5.3     | 2.7     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 83471.8 | 0°    | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 | 83471.8 |
| 81473.8 | 2.5°  | 81942.1 | 82367.7 | 82455.5 | 82338.5 | 82508.7 | 82202.8 | 81968.7 | 81362.1 | 80997.6 |
| 76307.4 | 5°    | 76799.6 | 76735.7 | 77180.0 | 77326.3 | 77307.7 | 77073.6 | 76746.4 | 76379.2 | 76022.7 |
| 68336.9 | 7.5°  | 68762.6 | 68845.1 | 69249.4 | 69507.5 | 69377.1 | 69084.5 | 68858.4 | 68581.7 | 68342.3 |
| 59669.4 | 10°   | 60214.8 | 59648.2 | 60151.0 | 60151.0 | 60499.5 | 59672.1 | 59749.3 | 59052.2 | 59084.2 |
| 49709.0 | 12.5° | 49879.3 | 50084.1 | 50166.6 | 50403.4 | 49996.3 | 49557.4 | 49020.0 | 48913.6 | 48581.0 |
| 37152.1 | 15°   | 37686.8 | 38272.1 | 37769.3 | 38628.6 | 38213.6 | 37756.0 | 37673.5 | 36848.8 | 37109.5 |
| 26946.9 | 17.5° | 26813.9 | 27460.3 | 27662.5 | 28154.7 | 27776.9 | 27505.6 | 27162.4 | 26912.3 | 26893.7 |
| 18864.7 | 20°   | 19013.7 | 19662.8 | 19811.8 | 20402.4 | 20359.8 | 20274.7 | 19984.7 | 19668.1 | 19324.9 |
| 12841.6 | 22.5° | 13035.8 | 13565.2 | 14060.1 | 14855.5 | 14842.2 | 14592.1 | 14562.9 | 14115.9 | 14123.9 |
| 8675.5  | 25°   | 8765.9  | 9151.7  | 9268.7  | 10082.8 | 10173.3 | 10146.7 | 9995.0  | 9580.0  | 9737.0  |
| 5299.5  | 27.5° | 5304.8  | 5642.6  | 6039.0  | 6326.4  | 6597.7  | 6555.2  | 6403.5  | 6172.1  | 6071.0  |
| 3184.5  | 30°   | 3269.6  | 3421.2  | 3567.6  | 3913.4  | 4075.7  | 4160.8  | 4089.0  | 3873.5  | 3889.5  |
| 2096.4  | 32.5° | 2141.6  | 2269.3  | 2375.7  | 2593.9  | 2679.0  | 2836.0  | 2806.7  | 2761.5  | 2708.3  |
| 1508.4  | 35°   | 1561.6  | 1654.8  | 1726.6  | 1827.7  | 1936.7  | 2069.8  | 2091.1  | 2072.4  | 2051.1  |
| 1165.2  | 37.5° | 1191.8  | 1287.6  | 1370.1  | 1412.7  | 1497.8  | 1601.5  | 1660.1  | 1657.4  | 1641.4  |
| 949.8   | 40°   | 968.4   | 1040.2  | 1114.7  | 1170.6  | 1229.1  | 1306.2  | 1378.1  | 1386.1  | 1386.1  |
| 798.1   | 42.5° | 808.8   | 869.9   | 944.4   | 1003.0  | 1045.5  | 1117.4  | 1191.8  | 1197.2  | 1191.8  |
| 675.7   | 45°   | 691.7   | 744.9   | 816.7   | 885.9   | 920.5   | 973.7   | 1045.5  | 1061.5  | 1050.8  |
| 580.0   | 47.5° | 601.2   | 649.1   | 710.3   | 784.8   | 822.1   | 869.9   | 936.5   | 955.1   | 952.4   |
| 500.1   | 50°   | 516.1   | 572.0   | 633.2   | 694.4   | 742.2   | 787.5   | 851.3   | 872.6   | 864.6   |
| 425.7   | 52.5° | 454.9   | 505.5   | 558.7   | 625.2   | 681.1   | 721.0   | 771.5   | 808.8   | 798.1   |
| 359.1   | 55°   | 380.4   | 441.6   | 497.5   | 553.4   | 622.5   | 665.1   | 713.0   | 758.2   | 747.6   |
| 303.3   | 57.5° | 329.9   | 380.4   | 444.3   | 494.8   | 564.0   | 614.5   | 662.4   | 710.3   | 707.7   |
| 247.4   | 60°   | 276.7   | 329.9   | 391.1   | 444.3   | 508.1   | 564.0   | 611.9   | 665.1   | 670.4   |
| 186.2   | 62.5° | 218.2   | 282.0   | 335.2   | 396.4   | 460.2   | 521.4   | 564.0   | 617.2   | 625.2   |
| 141.0   | 65°   | 164.9   | 231.5   | 290.0   | 348.5   | 412.4   | 478.9   | 516.1   | 561.3   | 569.3   |
| 103.8   | 67.5° | 122.4   | 178.2   | 247.4   | 300.6   | 367.1   | 431.0   | 465.6   | 502.8   | 516.1   |
| 63.8    | 70°   | 93.1    | 135.7   | 207.5   | 258.1   | 327.2   | 377.8   | 415.0   | 446.9   | 457.6   |
| 42.6    | 72.5° | 58.5    | 106.4   | 167.6   | 220.8   | 282.0   | 327.2   | 353.8   | 372.5   | 388.4   |
| 23.9    | 75°   | 39.9    | 82.5    | 135.7   | 188.9   | 234.1   | 268.7   | 292.6   | 308.6   | 321.9   |
| 10.6    | 77.5° | 23.9    | 63.8    | 111.7   | 157.0   | 186.2   | 212.8   | 236.8   | 247.4   | 255.4   |
| 8.0     | 80°   | 13.3    | 47.9    | 93.1    | 127.7   | 146.3   | 164.9   | 183.6   | 196.9   | 202.2   |
| 5.3     | 82.5° | 8.0     | 37.2    | 74.5    | 98.4    | 106.4   | 125.0   | 143.7   | 151.6   | 151.6   |
| 2.7     | 85°   | 5.3     | 26.6    | 50.5    | 71.8    | 77.2    | 90.5    | 95.8    | 101.1   | 106.4   |
| 2.7     | 87.5° | 5.3     | 16.0    | 31.9    | 39.9    | 42.6    | 47.9    | 50.5    | 55.9    | 61.2    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





| 180°    |
|---------|
| 83471.8 |
| 80728.9 |
| 75623.7 |
| 67530.8 |
| 58772.9 |
| 48277.7 |
| 36848.8 |
| 26398.9 |
| 19175.9 |
| 13969.6 |
| 9489.5  |
| 5983.2  |
| 3820.3  |
| 2689.6  |
| 2043.2  |
| 1633.5  |
| 1370.1  |
| 1186.5  |
| 1050.8  |
| 947.1   |
| 859.3   |
| 795.5   |
| 752.9   |
| 710.3   |
| 673.1   |
| 630.5   |
| 577.3   |
| 521.4   |
| 462.9   |
| 385.8   |
| 319.2   |
| 252.7   |
| 196.9   |
| 149.0   |
| 103.8   |
| 58.5    |
| 0.0     |

(END OF REPORT)