

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: P637385

Luminaire Tested: **IFLD-S-SA6A-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637385
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26031.3 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

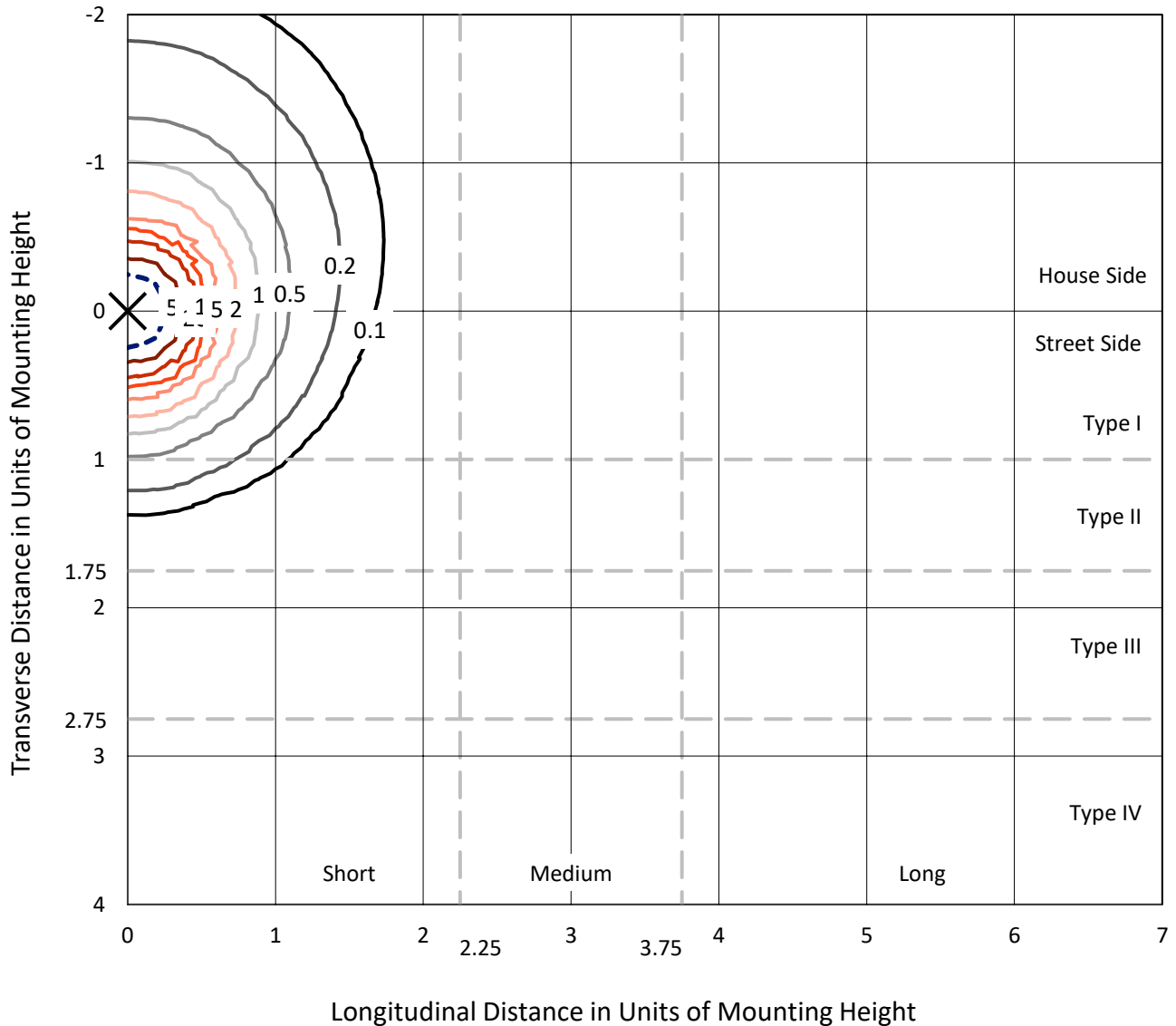
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

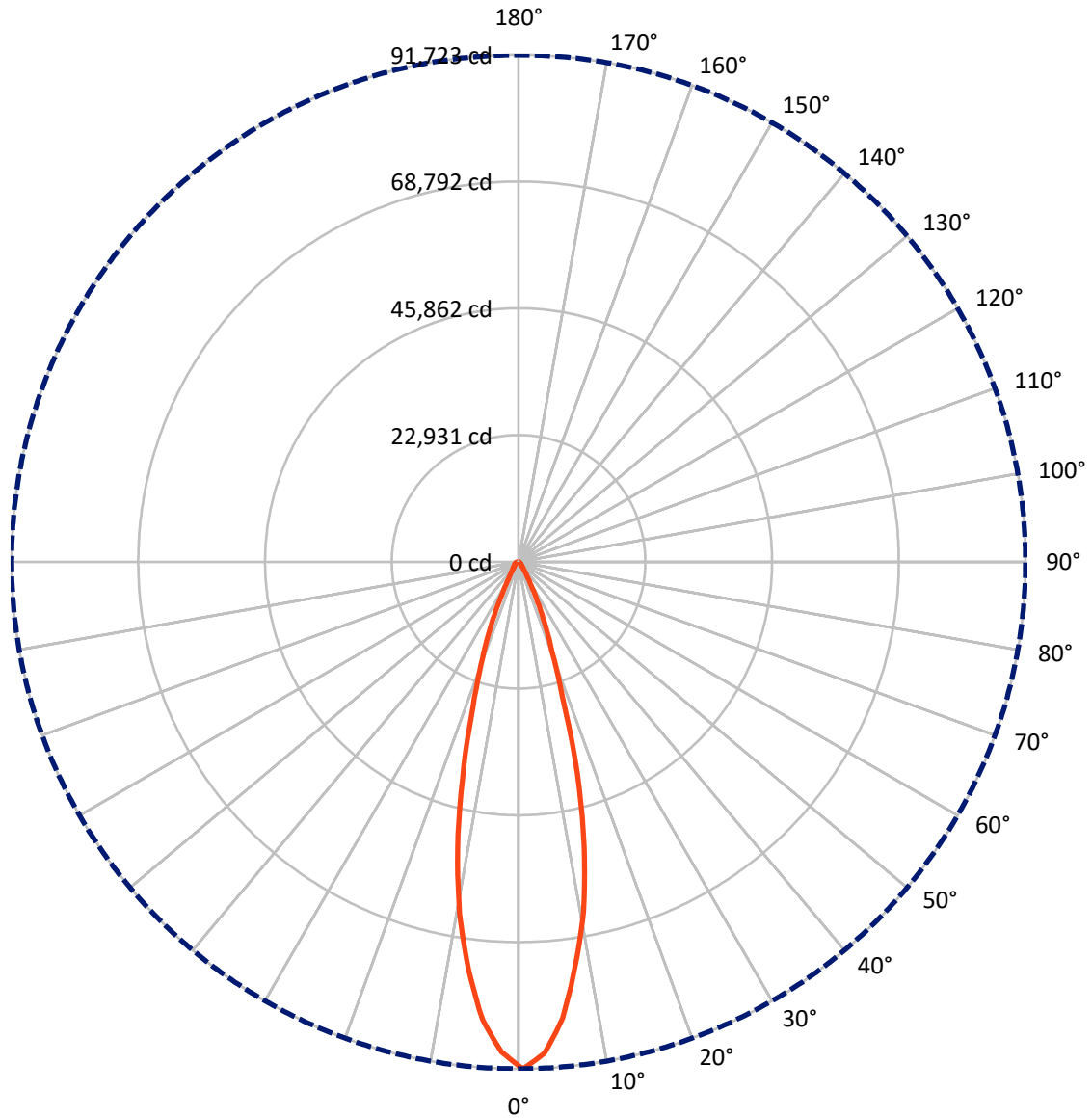
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 229.3 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 | 13725.5 | 0.0 | 13725.5 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 12305.8 | 0.0 | 12305.8 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 26031.3 | 0.0 | 26031.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 7402.9 | 28.4 |
| 10°-20° | 11211.6 | 43.1 |
| 20°-30° | 4731.3 | 18.2 |
| 30°-40° | 1234.0 | 4.7 |
| 40°-50° | 624.1 | 2.4 |
| 50°-60° | 408.0 | 1.6 |
| 60°-70° | 244.4 | 0.9 |
| 70°-80° | 128.6 | 0.5 |
| 80°-90° | 46.4 | 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° | 26031.3 | 100.0 |
| 0°-180° | 26031.3 | 100.0 |

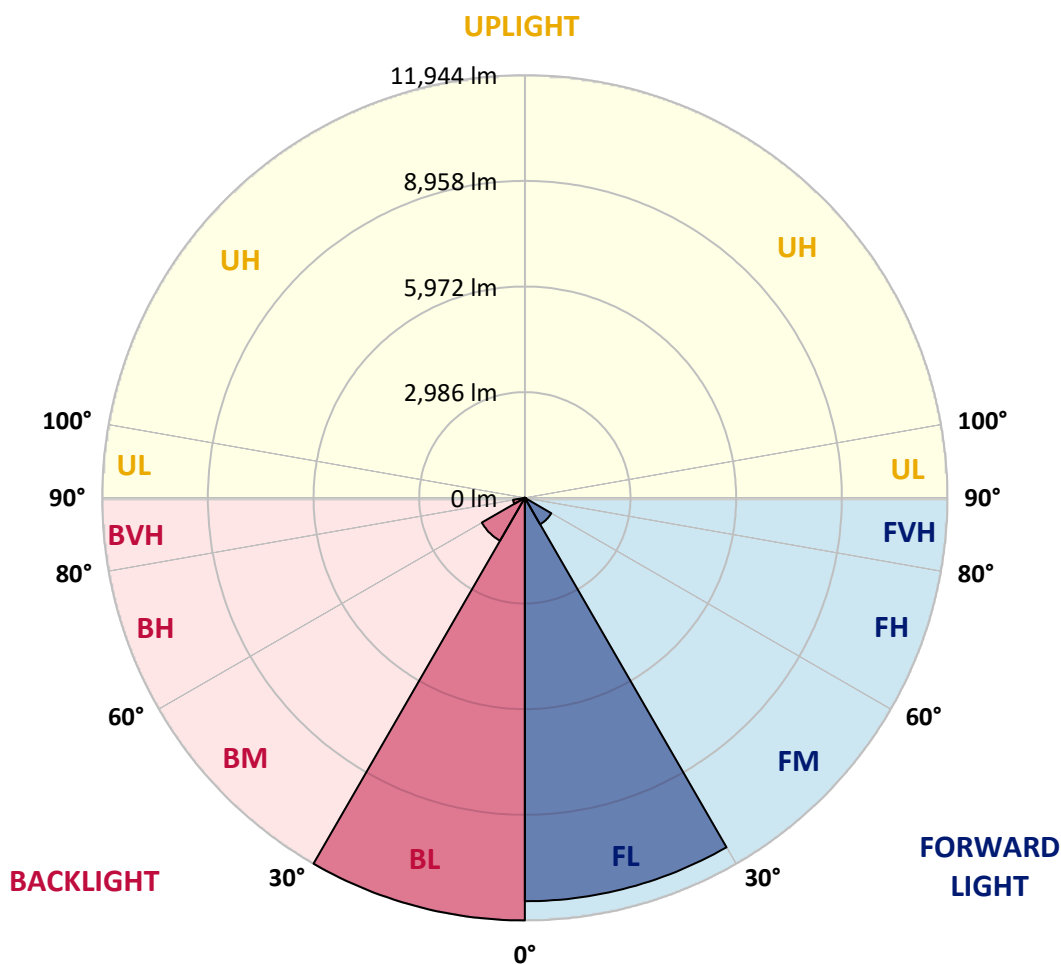


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 11401.6 | 43.8 | | | |
| FM (30°-60°) | 863.5 | 3.3 | | | |
| FH (60°-80°) | 35.2 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 11944.3 | 45.9 | B5 | | |
| BM (30°-60°) | 1402.6 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 337.8 | 1.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 40.8 | 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° | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 |
| 2.5° | 89051.2 | 89100.9 | 88916.8 | 89314.3 | 89004.5 | 89834.7 | 89422.5 | 90065.6 | 89849.3 | 90208.9 |
| 5° | 82970.7 | 82888.8 | 82836.2 | 83453.0 | 83274.7 | 84166.3 | 83596.3 | 83409.2 | 83988.0 | 83882.7 |
| 7.5° | 73788.4 | 74004.7 | 73881.9 | 74042.7 | 74133.4 | 75150.7 | 75472.3 | 75220.8 | 75229.6 | 75375.8 |
| 10° | 64375.2 | 64056.6 | 63603.4 | 63904.5 | 64541.8 | 64986.2 | 64807.9 | 65176.2 | 65094.3 | 65442.2 |
| 12.5° | 52792.9 | 53044.3 | 52789.9 | 52521.0 | 53634.8 | 53512.0 | 53821.9 | 54023.6 | 53517.9 | 54643.3 |
| 15° | 39766.4 | 39897.9 | 40207.8 | 40187.4 | 41043.9 | 41216.4 | 41175.5 | 41388.9 | 40994.2 | 41181.3 |
| 17.5° | 25547.2 | 25991.5 | 26824.7 | 28233.8 | 29818.2 | 30002.4 | 29955.6 | 29780.2 | 29590.2 | 29379.7 |
| 20° | 17160.1 | 17113.3 | 17414.4 | 17826.6 | 21106.6 | 21974.9 | 21948.5 | 21399.0 | 20603.8 | 20451.8 |
| 22.5° | 12020.8 | 12108.5 | 12067.6 | 12476.9 | 13155.1 | 15549.3 | 15254.1 | 14695.7 | 14435.5 | 14266.0 |
| 25° | 7907.7 | 7875.5 | 8080.2 | 8202.9 | 8784.7 | 9077.0 | 10111.9 | 9904.3 | 9503.8 | 9547.7 |
| 27.5° | 4820.6 | 4861.5 | 4937.5 | 5042.8 | 5455.0 | 5361.4 | 5952.0 | 6030.9 | 5902.3 | 5764.9 |
| 30° | 2958.4 | 2987.7 | 3049.1 | 3125.1 | 3268.3 | 3166.0 | 3329.7 | 3613.3 | 3566.5 | 3470.0 |
| 32.5° | 2008.3 | 2011.3 | 2055.1 | 2084.4 | 2066.8 | 1970.3 | 2023.0 | 2291.9 | 2297.8 | 2289.0 |
| 35° | 1444.1 | 1444.1 | 1485.1 | 1508.5 | 1458.8 | 1379.8 | 1388.6 | 1555.2 | 1628.3 | 1642.9 |
| 37.5° | 996.9 | 999.8 | 1069.9 | 1140.1 | 1084.6 | 1064.1 | 1029.0 | 1140.1 | 1257.0 | 1274.6 |
| 40° | 757.1 | 754.2 | 789.3 | 841.9 | 847.8 | 809.8 | 821.5 | 891.6 | 1011.5 | 1026.1 |
| 42.5° | 613.9 | 616.8 | 634.4 | 628.5 | 631.4 | 681.1 | 698.7 | 730.8 | 841.9 | 868.2 |
| 45° | 517.4 | 520.4 | 529.1 | 499.9 | 488.2 | 564.2 | 587.6 | 605.1 | 698.7 | 730.8 |
| 47.5° | 426.8 | 432.7 | 441.4 | 409.3 | 403.4 | 453.1 | 494.0 | 511.6 | 593.4 | 628.5 |
| 50° | 307.0 | 312.8 | 345.0 | 327.4 | 345.0 | 356.6 | 412.2 | 438.5 | 494.0 | 540.8 |
| 52.5° | 222.2 | 228.0 | 236.8 | 239.7 | 283.6 | 289.4 | 330.3 | 371.3 | 397.6 | 450.2 |
| 55° | 175.4 | 181.2 | 175.4 | 169.6 | 207.6 | 239.7 | 254.3 | 298.2 | 318.6 | 380.0 |
| 57.5° | 99.4 | 105.2 | 114.0 | 131.6 | 137.4 | 184.2 | 198.8 | 236.8 | 254.3 | 312.8 |
| 60° | 17.5 | 20.5 | 32.2 | 78.9 | 96.5 | 116.9 | 149.1 | 181.2 | 204.6 | 245.6 |
| 62.5° | 2.9 | 2.9 | 5.8 | 17.5 | 55.5 | 81.9 | 108.2 | 128.6 | 149.1 | 187.1 |
| 65° | 0.0 | 0.0 | 2.9 | 5.8 | 14.6 | 46.8 | 58.5 | 76.0 | 102.3 | 134.5 |
| 67.5° | 0.0 | 0.0 | 2.9 | 5.8 | 8.8 | 17.5 | 26.3 | 46.8 | 58.5 | 90.6 |
| 70° | 0.0 | 0.0 | 2.9 | 5.8 | 8.8 | 11.7 | 14.6 | 20.5 | 35.1 | 55.5 |
| 72.5° | 0.0 | 0.0 | 2.9 | 5.8 | 8.8 | 11.7 | 14.6 | 17.5 | 17.5 | 35.1 |
| 75° | 0.0 | 0.0 | 2.9 | 5.8 | 8.8 | 14.6 | 17.5 | 17.5 | 14.6 | 14.6 |
| 77.5° | 0.0 | 0.0 | 2.9 | 5.8 | 11.7 | 17.5 | 20.5 | 17.5 | 11.7 | 11.7 |
| 80° | 0.0 | 0.0 | 5.8 | 8.8 | 14.6 | 20.5 | 26.3 | 20.5 | 11.7 | 5.8 |
| 82.5° | 0.0 | 0.0 | 5.8 | 11.7 | 14.6 | 23.4 | 32.2 | 26.3 | 11.7 | 5.8 |
| 85° | 0.0 | 0.0 | 2.9 | 8.8 | 17.5 | 23.4 | 32.2 | 23.4 | 11.7 | 2.9 |
| 87.5° | 0.0 | 0.0 | 2.9 | 2.9 | 5.8 | 8.8 | 17.5 | 14.6 | 5.8 | 2.9 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 91723.2 | 0° | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 | 91723.2 |
| 89527.7 | 2.5° | 90042.3 | 90510.0 | 90606.5 | 90477.8 | 90664.9 | 90328.7 | 90071.5 | 89405.0 | 89004.5 |
| 83850.6 | 5° | 84391.4 | 84321.2 | 84809.4 | 84970.2 | 84949.8 | 84692.5 | 84332.9 | 83929.5 | 83537.8 |
| 75092.2 | 7.5° | 75560.0 | 75650.6 | 76094.9 | 76378.5 | 76235.2 | 75913.7 | 75665.2 | 75361.2 | 75098.1 |
| 65567.9 | 10° | 66167.2 | 65544.5 | 66097.1 | 66097.1 | 66480.0 | 65570.8 | 65655.6 | 64889.7 | 64924.8 |
| 54622.9 | 12.5° | 54810.0 | 55035.1 | 55125.7 | 55385.9 | 54938.6 | 54456.3 | 53865.7 | 53748.8 | 53383.4 |
| 40824.7 | 15° | 41412.2 | 42055.4 | 41502.9 | 42447.1 | 41991.1 | 41488.3 | 41397.6 | 40491.4 | 40777.9 |
| 29610.7 | 17.5° | 29464.5 | 30174.9 | 30397.0 | 30937.9 | 30522.7 | 30224.6 | 29847.5 | 29572.7 | 29552.2 |
| 20729.5 | 20° | 20893.2 | 21606.5 | 21770.2 | 22419.2 | 22372.4 | 22278.9 | 21960.2 | 21612.4 | 21235.2 |
| 14111.0 | 22.5° | 14324.4 | 14906.2 | 15449.9 | 16324.0 | 16309.4 | 16034.6 | 16002.4 | 15511.3 | 15520.1 |
| 9533.1 | 25° | 9632.5 | 10056.3 | 10185.0 | 11079.5 | 11178.9 | 11149.7 | 10983.0 | 10527.0 | 10699.5 |
| 5823.3 | 27.5° | 5829.2 | 6200.4 | 6636.0 | 6951.7 | 7249.9 | 7203.1 | 7036.5 | 6782.2 | 6671.1 |
| 3499.3 | 30° | 3592.8 | 3759.4 | 3920.2 | 4300.3 | 4478.6 | 4572.1 | 4493.2 | 4256.4 | 4273.9 |
| 2303.6 | 32.5° | 2353.3 | 2493.6 | 2610.6 | 2850.3 | 2943.8 | 3116.3 | 3084.1 | 3034.4 | 2976.0 |
| 1657.5 | 35° | 1716.0 | 1818.3 | 1897.3 | 2008.3 | 2128.2 | 2274.4 | 2297.8 | 2277.3 | 2253.9 |
| 1280.4 | 37.5° | 1309.7 | 1414.9 | 1505.5 | 1552.3 | 1645.8 | 1759.9 | 1824.2 | 1821.3 | 1803.7 |
| 1043.6 | 40° | 1064.1 | 1143.0 | 1224.9 | 1286.3 | 1350.6 | 1435.4 | 1514.3 | 1523.1 | 1523.1 |
| 877.0 | 42.5° | 888.7 | 955.9 | 1037.8 | 1102.1 | 1148.9 | 1227.8 | 1309.7 | 1315.5 | 1309.7 |
| 742.5 | 45° | 760.1 | 818.5 | 897.5 | 973.5 | 1011.5 | 1069.9 | 1148.9 | 1166.4 | 1154.7 |
| 637.3 | 47.5° | 660.7 | 713.3 | 780.5 | 862.4 | 903.3 | 955.9 | 1029.0 | 1049.5 | 1046.6 |
| 549.6 | 50° | 567.1 | 628.5 | 695.8 | 763.0 | 815.6 | 865.3 | 935.5 | 958.9 | 950.1 |
| 467.7 | 52.5° | 499.9 | 555.4 | 613.9 | 687.0 | 748.4 | 792.2 | 847.8 | 888.7 | 877.0 |
| 394.7 | 55° | 418.0 | 485.3 | 546.7 | 608.1 | 684.1 | 730.8 | 783.5 | 833.2 | 821.5 |
| 333.3 | 57.5° | 362.5 | 418.0 | 488.2 | 543.7 | 619.8 | 675.3 | 727.9 | 780.5 | 777.6 |
| 271.9 | 60° | 304.0 | 362.5 | 429.7 | 488.2 | 558.4 | 619.8 | 672.4 | 730.8 | 736.7 |
| 204.6 | 62.5° | 239.7 | 309.9 | 368.3 | 435.6 | 505.7 | 573.0 | 619.8 | 678.2 | 687.0 |
| 154.9 | 65° | 181.2 | 254.3 | 318.6 | 383.0 | 453.1 | 526.2 | 567.1 | 616.8 | 625.6 |
| 114.0 | 67.5° | 134.5 | 195.9 | 271.9 | 330.3 | 403.4 | 473.6 | 511.6 | 552.5 | 567.1 |
| 70.2 | 70° | 102.3 | 149.1 | 228.0 | 283.6 | 359.6 | 415.1 | 456.0 | 491.1 | 502.8 |
| 46.8 | 72.5° | 64.3 | 116.9 | 184.2 | 242.6 | 309.9 | 359.6 | 388.8 | 409.3 | 426.8 |
| 26.3 | 75° | 43.9 | 90.6 | 149.1 | 207.6 | 257.3 | 295.3 | 321.6 | 339.1 | 353.7 |
| 11.7 | 77.5° | 26.3 | 70.2 | 122.8 | 172.5 | 204.6 | 233.9 | 260.2 | 271.9 | 280.6 |
| 8.8 | 80° | 14.6 | 52.6 | 102.3 | 140.3 | 160.8 | 181.2 | 201.7 | 216.3 | 222.2 |
| 5.8 | 82.5° | 8.8 | 40.9 | 81.9 | 108.2 | 116.9 | 137.4 | 157.9 | 166.6 | 166.6 |
| 2.9 | 85° | 5.8 | 29.2 | 55.5 | 78.9 | 84.8 | 99.4 | 105.2 | 111.1 | 116.9 |
| 2.9 | 87.5° | 5.8 | 17.5 | 35.1 | 43.9 | 46.8 | 52.6 | 55.5 | 61.4 | 67.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|----------------|
| <u>91723.2</u> |
| 88709.2 |
| 83099.3 |
| 74206.4 |
| 64582.8 |
| 53050.1 |
| 40491.4 |
| 29008.5 |
| 21071.5 |
| 15350.5 |
| 10427.6 |
| 6574.6 |
| 4197.9 |
| 2955.5 |
| 2245.1 |
| 1794.9 |
| 1505.5 |
| 1303.8 |
| 1154.7 |
| 1040.7 |
| 944.2 |
| 874.1 |
| 827.3 |
| 780.5 |
| 739.6 |
| 692.8 |
| 634.4 |
| 573.0 |
| 508.7 |
| 423.9 |
| 350.8 |
| 277.7 |
| 216.3 |
| 163.7 |
| 114.0 |
| 64.3 |
| 0.0 |

(END OF REPORT)