

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: P637355

Luminaire Tested: **IFLD-S-SA3E-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637355
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25658.9 lumens
Efficiency: N/A
Efficacy: 110.6 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

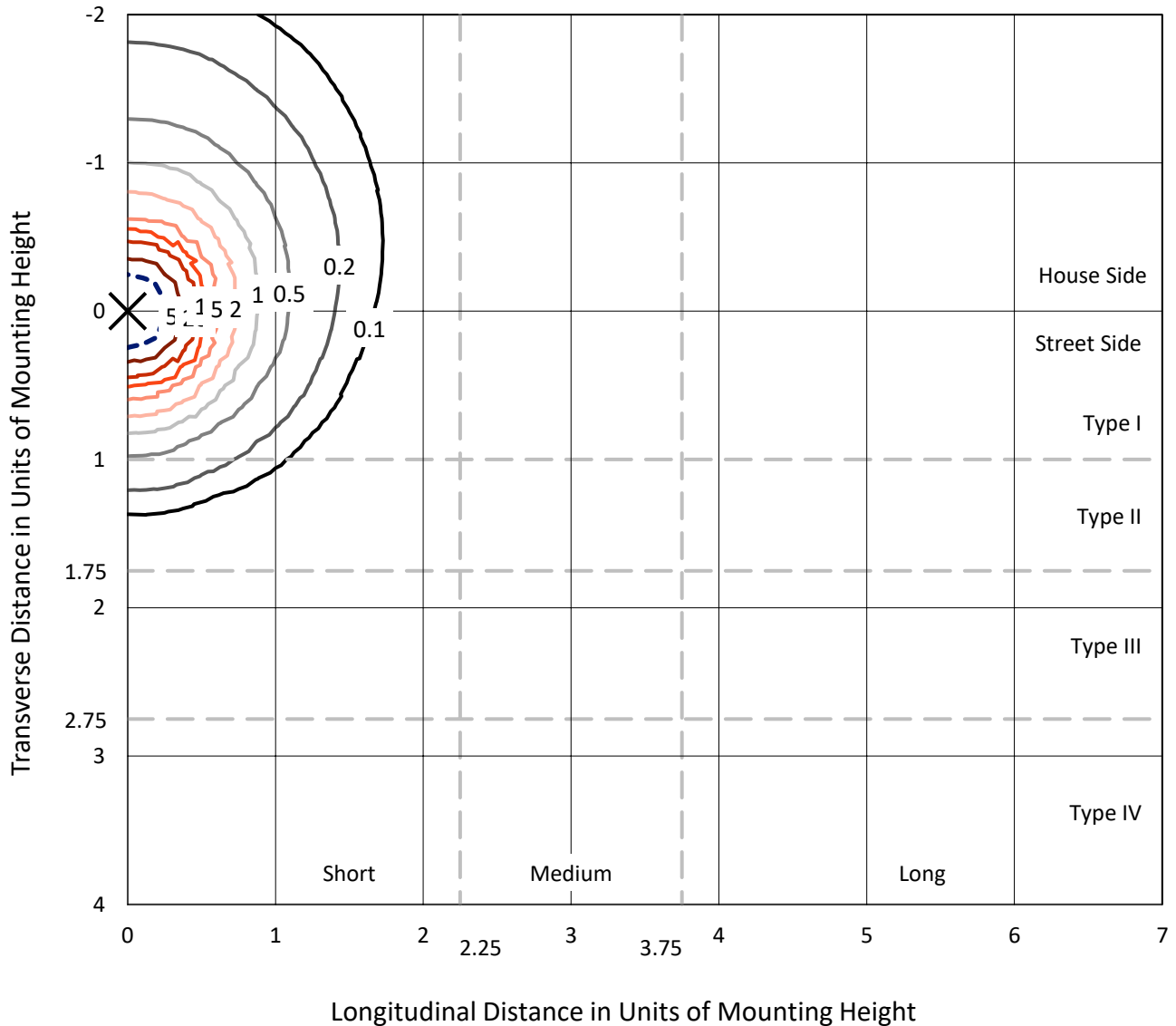
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

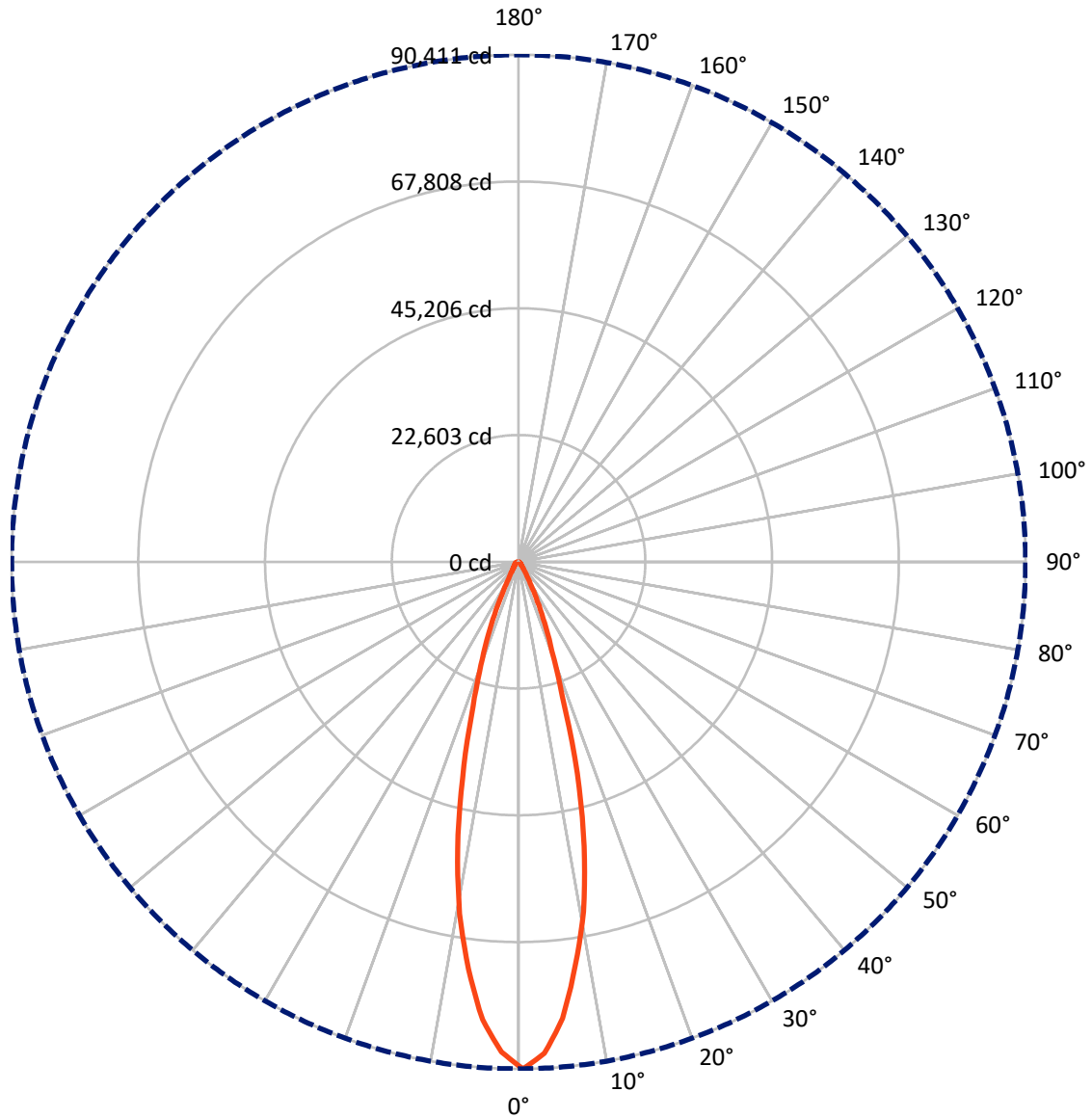
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 226 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 | 13529.1 | 0.0 | 13529.1 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 12129.8 | 0.0 | 12129.8 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 25658.9 | 0.0 | 25658.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 7297.0 | 28.4 |
| 10°-20° | 11051.2 | 43.1 |
| 20°-30° | 4663.7 | 18.2 |
| 30°-40° | 1216.3 | 4.7 |
| 40°-50° | 615.2 | 2.4 |
| 50°-60° | 402.1 | 1.6 |
| 60°-70° | 240.9 | 0.9 |
| 70°-80° | 126.7 | 0.5 |
| 80°-90° | 45.8 | 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° | 25658.9 | 100.0 |
| 0°-180° | 25658.9 | 100.0 |

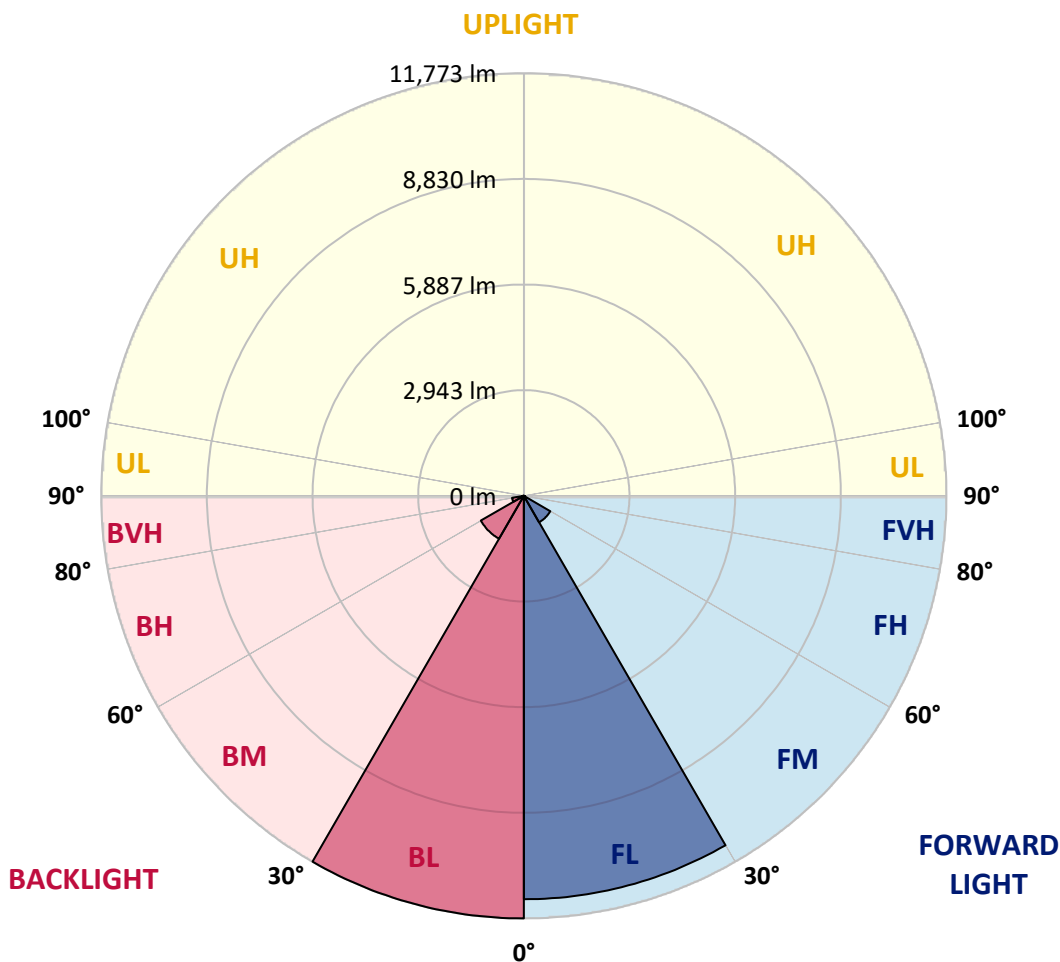


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 11238.4 | 43.8 | | | |
| FM (30°-60°) | 851.1 | 3.3 | | | |
| FH (60°-80°) | 34.7 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 11773.4 | 45.9 | B5 | | |
| BM (30°-60°) | 1382.5 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 333.0 | 1.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 40.2 | 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° | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 |
| 2.5° | 87777.2 | 87826.2 | 87644.7 | 88036.6 | 87731.1 | 88549.5 | 88143.2 | 88777.1 | 88563.9 | 88918.3 |
| 5° | 81783.6 | 81703.0 | 81651.1 | 82259.1 | 82083.3 | 82962.2 | 82400.3 | 82215.9 | 82786.4 | 82682.7 |
| 7.5° | 72732.8 | 72946.0 | 72825.0 | 72983.4 | 73072.8 | 74075.5 | 74392.5 | 74144.7 | 74153.3 | 74297.4 |
| 10° | 63454.2 | 63140.1 | 62693.5 | 62990.3 | 63618.5 | 64056.5 | 63880.7 | 64243.8 | 64163.1 | 64506.0 |
| 12.5° | 52037.6 | 52285.4 | 52034.7 | 51769.6 | 52867.5 | 52746.4 | 53051.9 | 53250.7 | 52752.2 | 53861.6 |
| 15° | 39197.5 | 39327.2 | 39632.6 | 39612.4 | 40456.7 | 40626.7 | 40586.4 | 40796.7 | 40407.7 | 40592.1 |
| 17.5° | 25181.7 | 25619.7 | 26440.9 | 27829.8 | 29391.6 | 29573.2 | 29527.1 | 29354.2 | 29166.9 | 28959.4 |
| 20° | 16914.6 | 16868.5 | 17165.3 | 17571.6 | 20804.7 | 21660.5 | 21634.5 | 21092.8 | 20309.0 | 20159.2 |
| 22.5° | 11848.9 | 11935.3 | 11895.0 | 12298.4 | 12966.9 | 15326.9 | 15035.8 | 14485.5 | 14229.0 | 14061.9 |
| 25° | 7794.5 | 7762.8 | 7964.6 | 8085.6 | 8659.0 | 8947.2 | 9967.2 | 9762.6 | 9367.9 | 9411.1 |
| 27.5° | 4751.6 | 4792.0 | 4866.9 | 4970.6 | 5376.9 | 5284.7 | 5866.8 | 5944.6 | 5817.8 | 5682.4 |
| 30° | 2916.1 | 2944.9 | 3005.4 | 3080.4 | 3221.6 | 3120.7 | 3282.1 | 3561.6 | 3515.5 | 3420.4 |
| 32.5° | 1979.6 | 1982.5 | 2025.7 | 2054.5 | 2037.2 | 1942.2 | 1994.0 | 2259.1 | 2264.9 | 2256.2 |
| 35° | 1423.5 | 1423.5 | 1463.8 | 1486.9 | 1437.9 | 1360.1 | 1368.7 | 1533.0 | 1605.0 | 1619.4 |
| 37.5° | 982.6 | 985.5 | 1054.6 | 1123.8 | 1069.0 | 1048.9 | 1014.3 | 1123.8 | 1239.1 | 1256.3 |
| 40° | 746.3 | 743.4 | 778.0 | 829.9 | 835.6 | 798.2 | 809.7 | 878.9 | 997.0 | 1011.4 |
| 42.5° | 605.1 | 608.0 | 625.3 | 619.5 | 622.4 | 671.4 | 688.7 | 720.4 | 829.9 | 855.8 |
| 45° | 510.0 | 512.9 | 521.6 | 492.7 | 481.2 | 556.1 | 579.2 | 596.5 | 688.7 | 720.4 |
| 47.5° | 420.7 | 426.5 | 435.1 | 403.4 | 397.7 | 446.6 | 487.0 | 504.3 | 585.0 | 619.5 |
| 50° | 302.6 | 308.3 | 340.0 | 322.7 | 340.0 | 351.5 | 406.3 | 432.2 | 487.0 | 533.1 |
| 52.5° | 219.0 | 224.8 | 233.4 | 236.3 | 279.5 | 285.3 | 325.6 | 366.0 | 391.9 | 443.8 |
| 55° | 172.9 | 178.7 | 172.9 | 167.1 | 204.6 | 236.3 | 250.7 | 293.9 | 314.1 | 374.6 |
| 57.5° | 98.0 | 103.7 | 112.4 | 129.7 | 135.4 | 181.5 | 195.9 | 233.4 | 250.7 | 308.3 |
| 60° | 17.3 | 20.2 | 31.7 | 77.8 | 95.1 | 115.3 | 147.0 | 178.7 | 201.7 | 242.0 |
| 62.5° | 2.9 | 2.9 | 5.8 | 17.3 | 54.7 | 80.7 | 106.6 | 126.8 | 147.0 | 184.4 |
| 65° | 0.0 | 0.0 | 2.9 | 5.8 | 14.4 | 46.1 | 57.6 | 74.9 | 100.9 | 132.6 |
| 67.5° | 0.0 | 0.0 | 2.9 | 5.8 | 8.6 | 17.3 | 25.9 | 46.1 | 57.6 | 89.3 |
| 70° | 0.0 | 0.0 | 2.9 | 5.8 | 8.6 | 11.5 | 14.4 | 20.2 | 34.6 | 54.7 |
| 72.5° | 0.0 | 0.0 | 2.9 | 5.8 | 8.6 | 11.5 | 14.4 | 17.3 | 17.3 | 34.6 |
| 75° | 0.0 | 0.0 | 2.9 | 5.8 | 8.6 | 14.4 | 17.3 | 17.3 | 14.4 | 14.4 |
| 77.5° | 0.0 | 0.0 | 2.9 | 5.8 | 11.5 | 17.3 | 20.2 | 17.3 | 11.5 | 11.5 |
| 80° | 0.0 | 0.0 | 5.8 | 8.6 | 14.4 | 20.2 | 25.9 | 20.2 | 11.5 | 5.8 |
| 82.5° | 0.0 | 0.0 | 5.8 | 11.5 | 14.4 | 23.1 | 31.7 | 25.9 | 11.5 | 5.8 |
| 85° | 0.0 | 0.0 | 2.9 | 8.6 | 17.3 | 23.1 | 31.7 | 23.1 | 11.5 | 2.9 |
| 87.5° | 0.0 | 0.0 | 2.9 | 2.9 | 5.8 | 8.6 | 17.3 | 14.4 | 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 90411.0 | 0° | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 | 90411.0 |
| 88246.9 | 2.5° | 88754.1 | 89215.1 | 89310.2 | 89183.4 | 89367.8 | 89036.5 | 88782.9 | 88125.9 | 87731.1 |
| 82651.0 | 5° | 83184.1 | 83114.9 | 83596.1 | 83754.6 | 83734.4 | 83480.9 | 83126.4 | 82728.8 | 82342.7 |
| 74017.9 | 7.5° | 74479.0 | 74568.3 | 75006.3 | 75285.8 | 75144.6 | 74827.6 | 74582.7 | 74283.0 | 74023.7 |
| 64629.9 | 10° | 65220.6 | 64606.8 | 65151.4 | 65151.4 | 65528.9 | 64632.8 | 64716.3 | 63961.4 | 63995.9 |
| 53841.4 | 12.5° | 54025.8 | 54247.7 | 54337.1 | 54593.5 | 54152.6 | 53677.2 | 53095.1 | 52979.9 | 52619.7 |
| 40240.6 | 15° | 40819.8 | 41453.7 | 40909.1 | 41839.8 | 41390.3 | 40894.7 | 40805.4 | 39912.1 | 40194.5 |
| 29187.0 | 17.5° | 29043.0 | 29743.2 | 29962.2 | 30495.3 | 30086.1 | 29792.2 | 29420.4 | 29149.6 | 29129.4 |
| 20432.9 | 20° | 20594.3 | 21297.4 | 21458.8 | 22098.5 | 22052.4 | 21960.2 | 21646.1 | 21303.2 | 20931.4 |
| 13909.2 | 22.5° | 14119.5 | 14692.9 | 15228.9 | 16090.5 | 16076.1 | 15805.2 | 15773.5 | 15289.4 | 15298.1 |
| 9396.7 | 25° | 9494.6 | 9912.5 | 10039.3 | 10921.0 | 11019.0 | 10990.2 | 10825.9 | 10376.4 | 10546.4 |
| 5740.0 | 27.5° | 5745.8 | 6111.7 | 6541.1 | 6852.3 | 7146.2 | 7100.1 | 6935.8 | 6685.2 | 6575.7 |
| 3449.2 | 30° | 3541.4 | 3705.7 | 3864.1 | 4238.7 | 4414.5 | 4506.7 | 4428.9 | 4195.5 | 4212.8 |
| 2270.6 | 32.5° | 2319.6 | 2457.9 | 2573.2 | 2809.5 | 2901.7 | 3071.7 | 3040.0 | 2991.0 | 2933.4 |
| 1633.8 | 35° | 1691.5 | 1792.3 | 1870.1 | 1979.6 | 2097.8 | 2241.8 | 2264.9 | 2244.7 | 2221.7 |
| 1262.1 | 37.5° | 1290.9 | 1394.7 | 1484.0 | 1530.1 | 1622.3 | 1734.7 | 1798.1 | 1795.2 | 1777.9 |
| 1028.7 | 40° | 1048.9 | 1126.7 | 1207.4 | 1267.9 | 1331.3 | 1414.8 | 1492.6 | 1501.3 | 1501.3 |
| 864.5 | 42.5° | 876.0 | 942.3 | 1022.9 | 1086.3 | 1132.4 | 1210.2 | 1290.9 | 1296.7 | 1290.9 |
| 731.9 | 45° | 749.2 | 806.8 | 884.6 | 959.6 | 997.0 | 1054.6 | 1132.4 | 1149.7 | 1138.2 |
| 628.2 | 47.5° | 651.2 | 703.1 | 769.4 | 850.1 | 890.4 | 942.3 | 1014.3 | 1034.5 | 1031.6 |
| 541.7 | 50° | 559.0 | 619.5 | 685.8 | 752.1 | 803.9 | 852.9 | 922.1 | 945.1 | 936.5 |
| 461.0 | 52.5° | 492.7 | 547.5 | 605.1 | 677.2 | 737.7 | 780.9 | 835.6 | 876.0 | 864.5 |
| 389.0 | 55° | 412.1 | 478.3 | 538.8 | 599.4 | 674.3 | 720.4 | 772.3 | 821.2 | 809.7 |
| 328.5 | 57.5° | 357.3 | 412.1 | 481.2 | 536.0 | 610.9 | 665.6 | 717.5 | 769.4 | 766.5 |
| 268.0 | 60° | 299.7 | 357.3 | 423.6 | 481.2 | 550.4 | 610.9 | 662.8 | 720.4 | 726.1 |
| 201.7 | 62.5° | 236.3 | 305.4 | 363.1 | 429.3 | 498.5 | 564.8 | 610.9 | 668.5 | 677.2 |
| 152.7 | 65° | 178.7 | 250.7 | 314.1 | 377.5 | 446.6 | 518.7 | 559.0 | 608.0 | 616.6 |
| 112.4 | 67.5° | 132.6 | 193.1 | 268.0 | 325.6 | 397.7 | 466.8 | 504.3 | 544.6 | 559.0 |
| 69.2 | 70° | 100.9 | 147.0 | 224.8 | 279.5 | 354.4 | 409.2 | 449.5 | 484.1 | 495.6 |
| 46.1 | 72.5° | 63.4 | 115.3 | 181.5 | 239.2 | 305.4 | 354.4 | 383.2 | 403.4 | 420.7 |
| 25.9 | 75° | 43.2 | 89.3 | 147.0 | 204.6 | 253.6 | 291.0 | 317.0 | 334.3 | 348.7 |
| 11.5 | 77.5° | 25.9 | 69.2 | 121.0 | 170.0 | 201.7 | 230.5 | 256.5 | 268.0 | 276.6 |
| 8.6 | 80° | 14.4 | 51.9 | 100.9 | 138.3 | 158.5 | 178.7 | 198.8 | 213.2 | 219.0 |
| 5.8 | 82.5° | 8.6 | 40.3 | 80.7 | 106.6 | 115.3 | 135.4 | 155.6 | 164.2 | 164.2 |
| 2.9 | 85° | 5.8 | 28.8 | 54.7 | 77.8 | 83.6 | 98.0 | 103.7 | 109.5 | 115.3 |
| 2.9 | 87.5° | 5.8 | 17.3 | 34.6 | 43.2 | 46.1 | 51.9 | 54.7 | 60.5 | 66.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|----------------|
| <u>90411.0</u> |
| 87440.1 |
| 81910.4 |
| 73144.8 |
| 63658.8 |
| 52291.2 |
| 39912.1 |
| 28593.4 |
| 20770.1 |
| 15130.9 |
| 10278.4 |
| 6480.6 |
| 4137.9 |
| 2913.2 |
| 2213.0 |
| 1769.3 |
| 1484.0 |
| 1285.2 |
| 1138.2 |
| 1025.8 |
| 930.7 |
| 861.6 |
| 815.5 |
| 769.4 |
| 729.0 |
| 682.9 |
| 625.3 |
| 564.8 |
| 501.4 |
| 417.8 |
| 345.8 |
| 273.7 |
| 213.2 |
| 161.4 |
| 112.4 |
| 63.4 |
| 0.0 |

(END OF REPORT)