

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: P637307

Luminaire Tested: **IFLD-M-SA4E-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637307
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29202.5 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

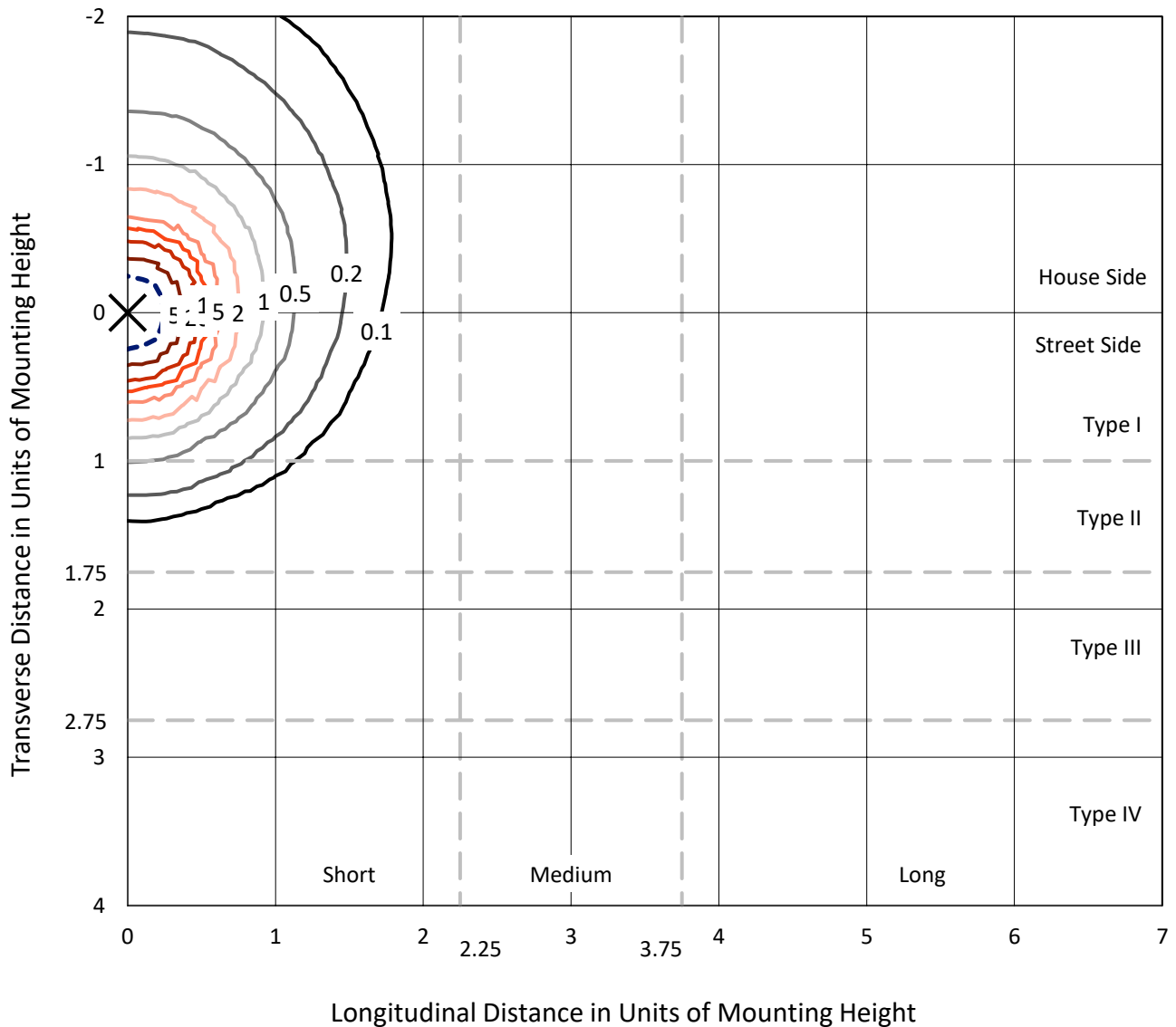
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

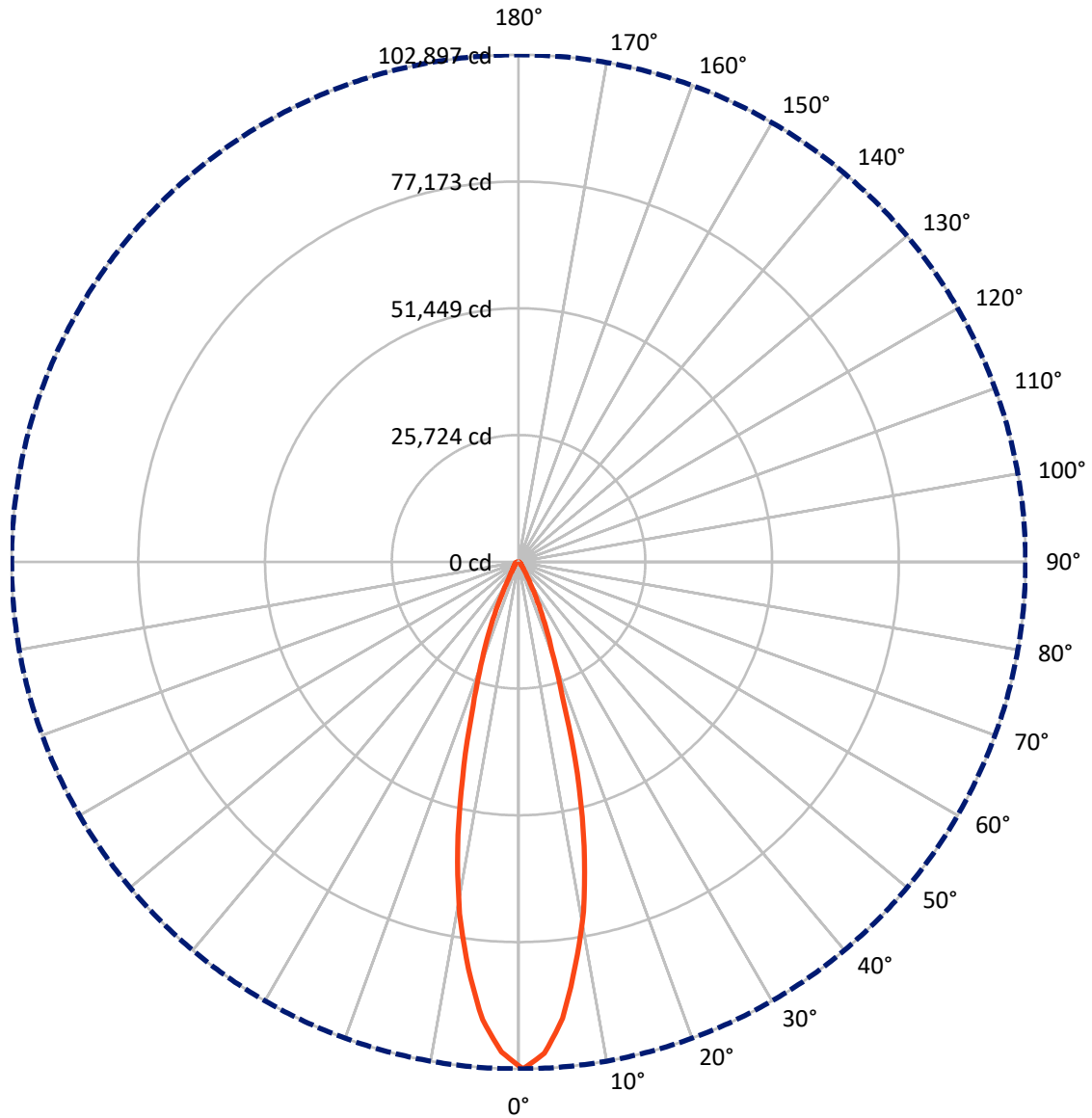
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 257.2 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 | 15397.5 | 0.0 | 15397.5 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 13805.0 | 0.0 | 13805.0 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 29202.5 | 0.0 | 29202.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 8304.7 | 28.4 |
| 10°-20° | 12577.4 | 43.1 |
| 20°-30° | 5307.7 | 18.2 |
| 30°-40° | 1384.3 | 4.7 |
| 40°-50° | 700.2 | 2.4 |
| 50°-60° | 457.7 | 1.6 |
| 60°-70° | 274.2 | 0.9 |
| 70°-80° | 144.2 | 0.5 |
| 80°-90° | 52.1 | 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° | 29202.5 | 100.0 |
| 0°-180° | 29202.5 | 100.0 |

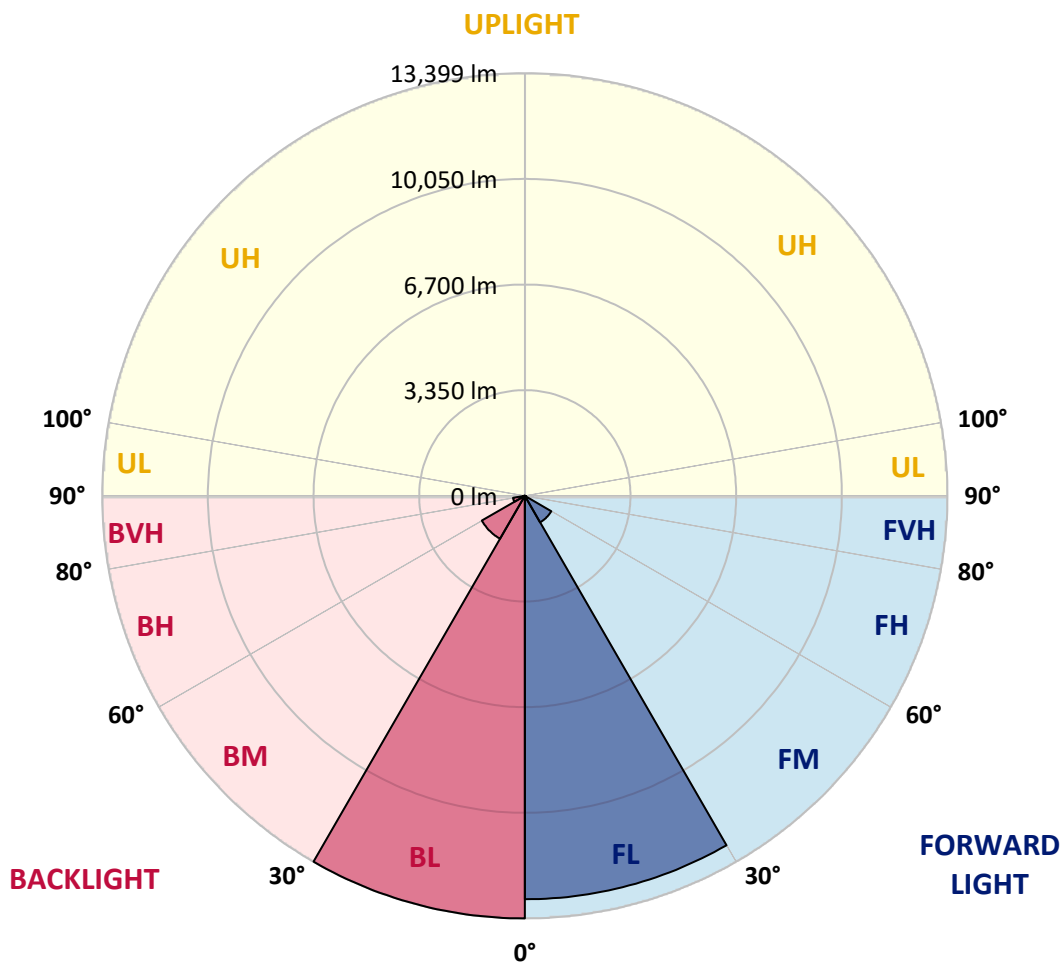


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 12790.5 | 43.8 | | | |
| FM (30°-60°) | 968.7 | 3.3 | | | |
| FH (60°-80°) | 39.5 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 6.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 13399.3 | 45.9 | B5 | | |
| BM (30°-60°) | 1573.5 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 379.0 | 1.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 45.8 | 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° | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 |
| 2.5° | 99899.6 | 99955.4 | 99748.7 | 100194.8 | 99847.1 | 100778.5 | 100316.1 | 101037.6 | 100794.9 | 101198.3 |
| 5° | 93078.3 | 92986.4 | 92927.4 | 93619.4 | 93419.3 | 94419.6 | 93780.1 | 93570.2 | 94219.5 | 94101.5 |
| 7.5° | 82777.4 | 83020.1 | 82882.4 | 83062.7 | 83164.4 | 84305.7 | 84666.4 | 84384.4 | 84394.2 | 84558.2 |
| 10° | 72217.5 | 71860.0 | 71351.7 | 71689.5 | 72404.4 | 72902.9 | 72702.8 | 73116.1 | 73024.2 | 73414.5 |
| 12.5° | 59224.2 | 59506.2 | 59220.9 | 58919.2 | 60168.7 | 60030.9 | 60378.6 | 60604.8 | 60037.5 | 61300.1 |
| 15° | 44610.8 | 44758.4 | 45106.0 | 45083.0 | 46043.9 | 46237.4 | 46191.5 | 46430.9 | 45988.2 | 46198.1 |
| 17.5° | 28659.4 | 29157.9 | 30092.5 | 31673.2 | 33450.7 | 33657.3 | 33604.9 | 33408.1 | 33194.9 | 32958.8 |
| 20° | 19250.6 | 19198.1 | 19535.9 | 19998.3 | 23677.9 | 24651.9 | 24622.4 | 24005.8 | 23113.8 | 22943.3 |
| 22.5° | 13485.2 | 13583.6 | 13537.7 | 13996.8 | 14757.7 | 17443.6 | 17112.3 | 16486.0 | 16194.1 | 16003.9 |
| 25° | 8871.0 | 8834.9 | 9064.5 | 9202.2 | 9854.8 | 10182.8 | 11343.7 | 11110.9 | 10661.6 | 10710.8 |
| 27.5° | 5407.9 | 5453.8 | 5539.0 | 5657.1 | 6119.5 | 6014.6 | 6677.0 | 6765.6 | 6621.3 | 6467.1 |
| 30° | 3318.8 | 3351.6 | 3420.5 | 3505.8 | 3666.5 | 3551.7 | 3735.3 | 4053.4 | 4001.0 | 3892.7 |
| 32.5° | 2253.0 | 2256.3 | 2305.5 | 2338.3 | 2318.6 | 2210.4 | 2269.4 | 2571.1 | 2577.7 | 2567.8 |
| 35° | 1620.1 | 1620.1 | 1666.0 | 1692.2 | 1636.5 | 1547.9 | 1557.8 | 1744.7 | 1826.7 | 1843.1 |
| 37.5° | 1118.3 | 1121.6 | 1200.3 | 1279.0 | 1216.7 | 1193.7 | 1154.4 | 1279.0 | 1410.2 | 1429.9 |
| 40° | 849.4 | 846.1 | 885.5 | 944.5 | 951.0 | 908.4 | 921.5 | 1000.2 | 1134.7 | 1151.1 |
| 42.5° | 688.7 | 692.0 | 711.6 | 705.1 | 708.4 | 764.1 | 783.8 | 819.9 | 944.5 | 974.0 |
| 45° | 580.5 | 583.7 | 593.6 | 560.8 | 547.7 | 632.9 | 659.2 | 678.9 | 783.8 | 819.9 |
| 47.5° | 478.8 | 485.4 | 495.2 | 459.1 | 452.6 | 508.3 | 554.2 | 573.9 | 665.7 | 705.1 |
| 50° | 344.3 | 350.9 | 387.0 | 367.3 | 387.0 | 400.1 | 462.4 | 491.9 | 554.2 | 606.7 |
| 52.5° | 249.2 | 255.8 | 265.6 | 268.9 | 318.1 | 324.7 | 370.6 | 416.5 | 446.0 | 505.0 |
| 55° | 196.8 | 203.3 | 196.8 | 190.2 | 232.8 | 268.9 | 285.3 | 334.5 | 357.5 | 426.3 |
| 57.5° | 111.5 | 118.1 | 127.9 | 147.6 | 154.1 | 206.6 | 223.0 | 265.6 | 285.3 | 350.9 |
| 60° | 19.7 | 23.0 | 36.1 | 88.5 | 108.2 | 131.2 | 167.3 | 203.3 | 229.6 | 275.5 |
| 62.5° | 3.3 | 3.3 | 6.6 | 19.7 | 62.3 | 91.8 | 121.3 | 144.3 | 167.3 | 209.9 |
| 65° | 0.0 | 0.0 | 3.3 | 6.6 | 16.4 | 52.5 | 65.6 | 85.3 | 114.8 | 150.9 |
| 67.5° | 0.0 | 0.0 | 3.3 | 6.6 | 9.8 | 19.7 | 29.5 | 52.5 | 65.6 | 101.7 |
| 70° | 0.0 | 0.0 | 3.3 | 6.6 | 9.8 | 13.1 | 16.4 | 23.0 | 39.4 | 62.3 |
| 72.5° | 0.0 | 0.0 | 3.3 | 6.6 | 9.8 | 13.1 | 16.4 | 19.7 | 19.7 | 39.4 |
| 75° | 0.0 | 0.0 | 3.3 | 6.6 | 9.8 | 16.4 | 19.7 | 19.7 | 16.4 | 16.4 |
| 77.5° | 0.0 | 0.0 | 3.3 | 6.6 | 13.1 | 19.7 | 23.0 | 19.7 | 13.1 | 13.1 |
| 80° | 0.0 | 0.0 | 6.6 | 9.8 | 16.4 | 23.0 | 29.5 | 23.0 | 13.1 | 6.6 |
| 82.5° | 0.0 | 0.0 | 6.6 | 13.1 | 16.4 | 26.2 | 36.1 | 29.5 | 13.1 | 6.6 |
| 85° | 0.0 | 0.0 | 3.3 | 9.8 | 19.7 | 26.2 | 36.1 | 26.2 | 13.1 | 3.3 |
| 87.5° | 0.0 | 0.0 | 3.3 | 3.3 | 6.6 | 9.8 | 19.7 | 16.4 | 6.6 | 3.3 |
| 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° |
|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 102897.0 | 0° | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 | 102897.0 |
| 100434.2 | 2.5° | 101011.3 | 101536.1 | 101644.3 | 101500.0 | 101709.9 | 101332.7 | 101044.1 | 100296.4 | 99847.1 |
| 94065.4 | 5° | 94672.1 | 94593.4 | 95141.1 | 95321.4 | 95298.5 | 95009.9 | 94606.5 | 94153.9 | 93714.5 |
| 84240.1 | 7.5° | 84764.8 | 84866.5 | 85364.9 | 85683.0 | 85522.3 | 85161.6 | 84882.8 | 84541.8 | 84246.6 |
| 73555.5 | 10° | 74227.8 | 73529.3 | 74149.1 | 74149.1 | 74578.7 | 73558.8 | 73653.9 | 72794.7 | 72834.0 |
| 61277.1 | 12.5° | 61487.0 | 61739.5 | 61841.2 | 62133.1 | 61631.3 | 61090.2 | 60427.7 | 60296.6 | 59886.6 |
| 45798.0 | 15° | 46457.2 | 47178.6 | 46558.8 | 47618.1 | 47106.5 | 46542.4 | 46440.8 | 45424.1 | 45745.5 |
| 33217.9 | 17.5° | 33053.9 | 33850.8 | 34100.1 | 34706.8 | 34241.1 | 33906.6 | 33483.5 | 33175.2 | 33152.3 |
| 23254.8 | 20° | 23438.5 | 24238.7 | 24422.3 | 25150.4 | 25097.9 | 24992.9 | 24635.5 | 24245.2 | 23822.2 |
| 15830.1 | 22.5° | 16069.5 | 16722.1 | 17332.1 | 18312.6 | 18296.2 | 17988.0 | 17951.9 | 17400.9 | 17410.8 |
| 10694.4 | 25° | 10805.9 | 11281.4 | 11425.7 | 12429.2 | 12540.7 | 12507.9 | 12321.0 | 11809.4 | 12002.9 |
| 6532.7 | 27.5° | 6539.3 | 6955.8 | 7444.4 | 7798.6 | 8133.1 | 8080.6 | 7893.7 | 7608.4 | 7483.8 |
| 3925.5 | 30° | 4030.5 | 4217.4 | 4397.8 | 4824.1 | 5024.2 | 5129.1 | 5040.6 | 4774.9 | 4794.6 |
| 2584.2 | 32.5° | 2640.0 | 2797.4 | 2928.6 | 3197.5 | 3302.4 | 3495.9 | 3459.9 | 3404.1 | 3338.5 |
| 1859.5 | 35° | 1925.1 | 2039.8 | 2128.4 | 2253.0 | 2387.5 | 2551.4 | 2577.7 | 2554.7 | 2528.5 |
| 1436.4 | 37.5° | 1469.2 | 1587.3 | 1688.9 | 1741.4 | 1846.3 | 1974.2 | 2046.4 | 2043.1 | 2023.4 |
| 1170.8 | 40° | 1193.7 | 1282.3 | 1374.1 | 1443.0 | 1515.1 | 1610.2 | 1698.8 | 1708.6 | 1708.6 |
| 983.8 | 42.5° | 997.0 | 1072.4 | 1164.2 | 1236.4 | 1288.8 | 1377.4 | 1469.2 | 1475.8 | 1469.2 |
| 833.0 | 45° | 852.7 | 918.3 | 1006.8 | 1092.1 | 1134.7 | 1200.3 | 1288.8 | 1308.5 | 1295.4 |
| 714.9 | 47.5° | 741.2 | 800.2 | 875.6 | 967.4 | 1013.4 | 1072.4 | 1154.4 | 1177.3 | 1174.1 |
| 616.5 | 50° | 636.2 | 705.1 | 780.5 | 855.9 | 915.0 | 970.7 | 1049.4 | 1075.7 | 1065.8 |
| 524.7 | 52.5° | 560.8 | 623.1 | 688.7 | 770.7 | 839.5 | 888.7 | 951.0 | 997.0 | 983.8 |
| 442.7 | 55° | 469.0 | 544.4 | 613.3 | 682.1 | 767.4 | 819.9 | 878.9 | 934.7 | 921.5 |
| 373.9 | 57.5° | 406.7 | 469.0 | 547.7 | 610.0 | 695.3 | 757.6 | 816.6 | 875.6 | 872.3 |
| 305.0 | 60° | 341.1 | 406.7 | 482.1 | 547.7 | 626.4 | 695.3 | 754.3 | 819.9 | 826.4 |
| 229.6 | 62.5° | 268.9 | 347.6 | 413.2 | 488.6 | 567.4 | 642.8 | 695.3 | 760.8 | 770.7 |
| 173.8 | 65° | 203.3 | 285.3 | 357.5 | 429.6 | 508.3 | 590.3 | 636.2 | 692.0 | 701.8 |
| 127.9 | 67.5° | 150.9 | 219.7 | 305.0 | 370.6 | 452.6 | 531.3 | 573.9 | 619.8 | 636.2 |
| 78.7 | 70° | 114.8 | 167.3 | 255.8 | 318.1 | 403.4 | 465.7 | 511.6 | 551.0 | 564.1 |
| 52.5 | 72.5° | 72.1 | 131.2 | 206.6 | 272.2 | 347.6 | 403.4 | 436.2 | 459.1 | 478.8 |
| 29.5 | 75° | 49.2 | 101.7 | 167.3 | 232.8 | 288.6 | 331.2 | 360.7 | 380.4 | 396.8 |
| 13.1 | 77.5° | 29.5 | 78.7 | 137.7 | 193.5 | 229.6 | 262.4 | 291.9 | 305.0 | 314.8 |
| 9.8 | 80° | 16.4 | 59.0 | 114.8 | 157.4 | 180.4 | 203.3 | 226.3 | 242.7 | 249.2 |
| 6.6 | 82.5° | 9.8 | 45.9 | 91.8 | 121.3 | 131.2 | 154.1 | 177.1 | 186.9 | 186.9 |
| 3.3 | 85° | 6.6 | 32.8 | 62.3 | 88.5 | 95.1 | 111.5 | 118.1 | 124.6 | 131.2 |
| 3.3 | 87.5° | 6.6 | 19.7 | 39.4 | 49.2 | 52.5 | 59.0 | 62.3 | 68.9 | 75.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
102897.0
99515.9
93222.6
83246.4
72450.3
59512.8
45424.1
32542.3
23638.5
17220.6
11697.9
7375.6
4709.3
3315.6
2518.6
2013.6
1688.9
1462.6
1295.4
1167.5
1059.3
980.6
928.1
875.6
829.7
777.2
711.6
642.8
570.6
475.5
393.5
311.6
242.7
183.7
127.9
72.1
0.0

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