

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: P637849

Luminaire Tested: **IFLD-S-SA6A-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637849
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20723.6 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

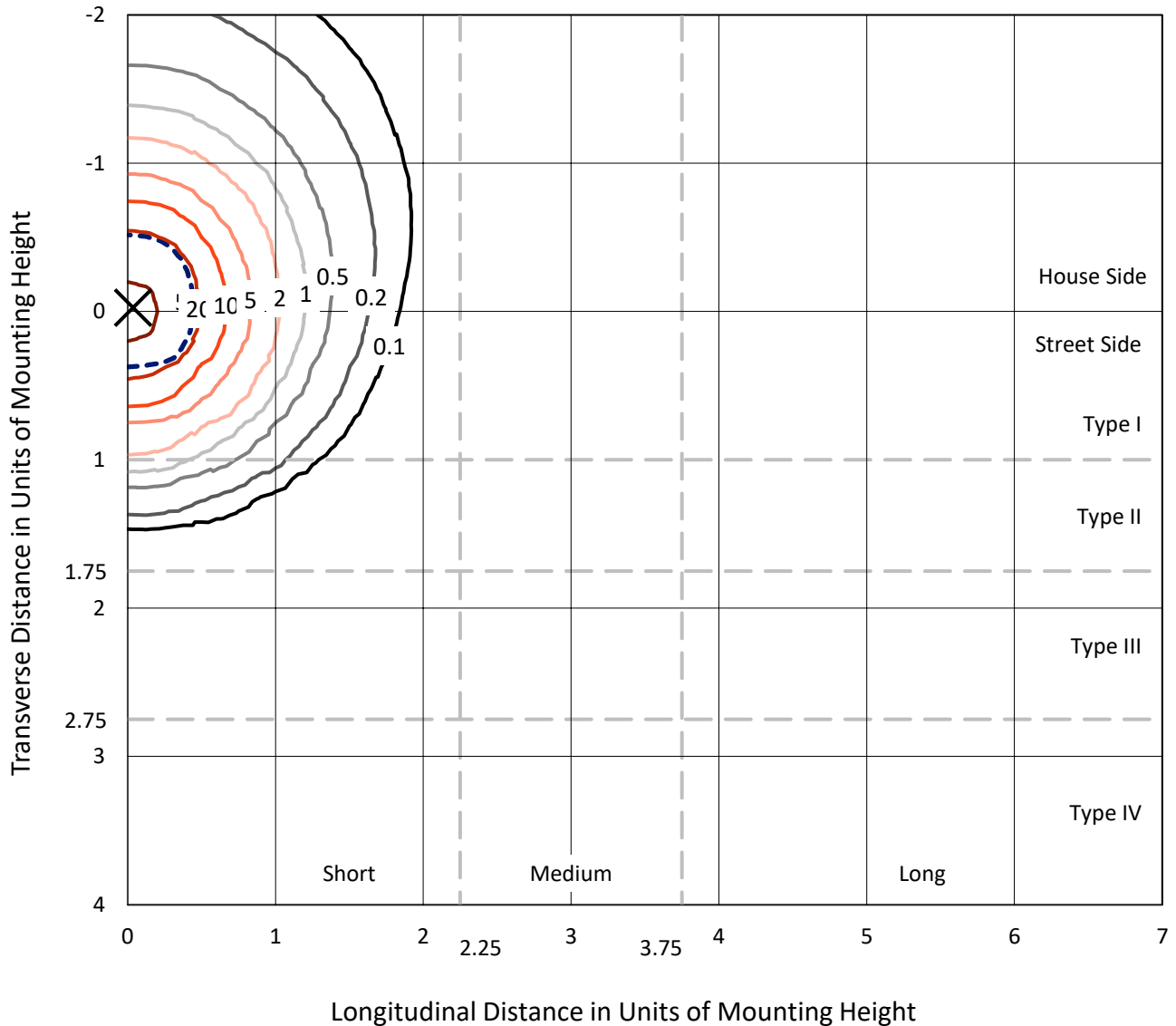
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

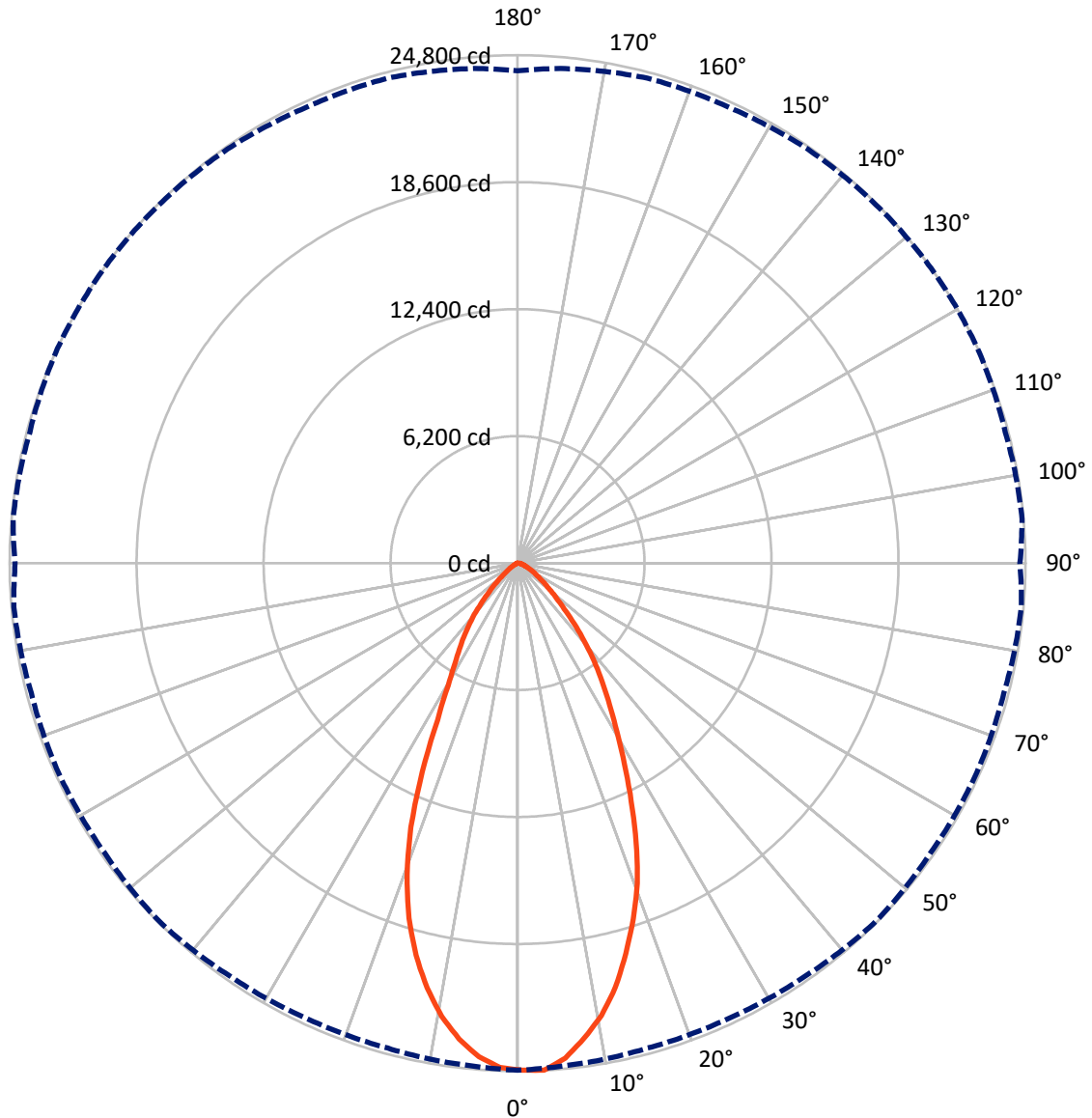
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 61.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11759.4 | 0.0 | 11759.4 |
| | % Fixture | 56.7 | 0.0 | 56.7 |
| Street Side | Lumens | 8964.2 | 0.0 | 8964.2 |
| | % Fixture | 43.3 | 0.0 | 43.3 |
| Total | Lumens | 20723.6 | 0.0 | 20723.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2248.3 | 10.8 |
| 10°-20° | 5359.4 | 25.9 |
| 20°-30° | 5458.4 | 26.3 |
| 30°-40° | 4070.3 | 19.6 |
| 40°-50° | 2126.5 | 10.3 |
| 50°-60° | 894.4 | 4.3 |
| 60°-70° | 365.3 | 1.8 |
| 70°-80° | 153.7 | 0.7 |
| 80°-90° | 47.4 | 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° | 20723.6 | 100.0 |
| 0°-180° | 20723.6 | 100.0 |



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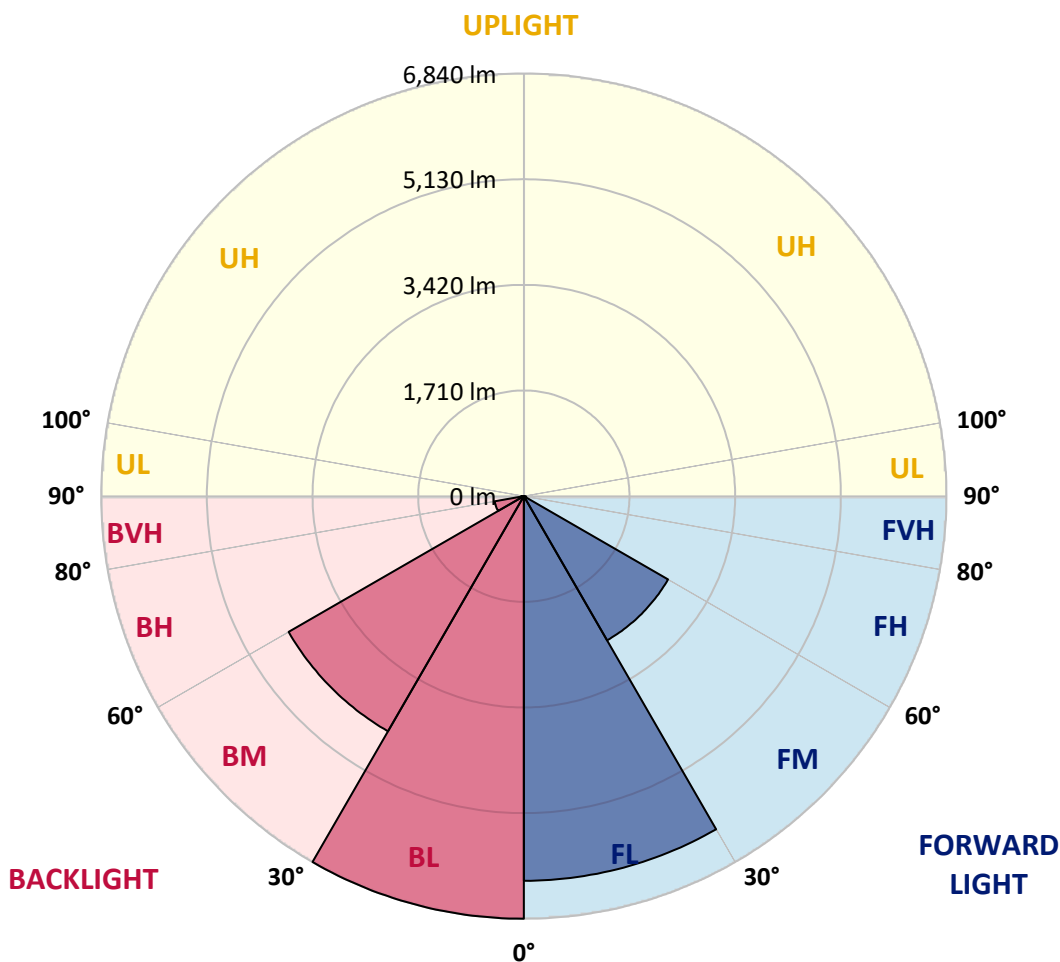
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 6225.6 | 30.0 | | | |
| FM (30°-60°) | 2695.2 | 13.0 | | | |
| FH (60°-80°) | 39.0 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 4.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 6840.5 | 33.0 | B5 | | |
| BM (30°-60°) | 4396.0 | 21.2 | B3/5000 | | |
| BH (60°-80°) | 480.0 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 43.0 | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 |
| 2.5° | 24762.4 | 24661.3 | 24517.5 | 24504.2 | 24578.7 | 24741.1 | 24637.3 | 24642.6 | 24578.7 | 24687.9 |
| 5° | 24373.8 | 24277.9 | 24179.4 | 24049.0 | 24158.1 | 24227.3 | 24174.1 | 24115.5 | 24033.0 | 24139.5 |
| 7.5° | 23639.0 | 23585.8 | 23439.4 | 23380.8 | 23447.4 | 23524.6 | 23410.1 | 23394.1 | 23279.7 | 23418.1 |
| 10° | 22515.6 | 22494.4 | 22350.6 | 22316.0 | 22374.6 | 22491.7 | 22441.1 | 22430.5 | 22358.6 | 22345.3 |
| 12.5° | 21349.7 | 21267.1 | 21088.8 | 21078.1 | 21166.0 | 21341.7 | 21205.9 | 21075.5 | 21115.4 | 21150.0 |
| 15° | 18346.9 | 18259.0 | 18700.9 | 19395.7 | 19760.4 | 19747.1 | 19787.0 | 19630.0 | 19582.1 | 19598.0 |
| 17.5° | 14585.4 | 14436.3 | 14596.0 | 15671.5 | 17404.5 | 18410.8 | 18133.9 | 17795.8 | 17614.8 | 17495.0 |
| 20° | 12588.9 | 12596.8 | 12567.6 | 12844.4 | 13925.2 | 16219.9 | 16153.3 | 15501.1 | 15264.2 | 15165.7 |
| 22.5° | 11375.0 | 11329.7 | 11265.8 | 11353.7 | 11643.8 | 12990.8 | 13893.3 | 13294.3 | 13211.8 | 13102.6 |
| 25° | 10185.0 | 10185.0 | 10107.8 | 10195.7 | 10278.2 | 10296.8 | 11201.9 | 11446.8 | 11287.1 | 11287.1 |
| 27.5° | 9154.8 | 9101.6 | 9067.0 | 9106.9 | 8997.7 | 8473.3 | 8587.8 | 9841.6 | 9732.5 | 9665.9 |
| 30° | 8132.6 | 8116.6 | 8058.0 | 8111.3 | 7706.6 | 7115.7 | 6876.1 | 8305.6 | 8420.1 | 8396.1 |
| 32.5° | 6713.7 | 6777.6 | 7038.5 | 7121.0 | 6428.9 | 5952.4 | 5723.4 | 6894.7 | 7352.6 | 7334.0 |
| 35° | 4562.8 | 4616.0 | 4914.2 | 5899.1 | 5329.4 | 4988.7 | 4922.1 | 5483.8 | 6237.2 | 6309.1 |
| 37.5° | 3633.7 | 3625.7 | 3710.9 | 3886.6 | 4283.2 | 4200.7 | 4182.1 | 4328.5 | 5087.2 | 5119.1 |
| 40° | 2994.8 | 2984.2 | 2981.5 | 2837.7 | 2739.3 | 3492.6 | 3442.0 | 3354.2 | 4011.7 | 4075.6 |
| 42.5° | 2414.5 | 2425.1 | 2433.1 | 2119.0 | 1975.2 | 2694.0 | 2664.7 | 2574.2 | 3146.5 | 3221.1 |
| 45° | 1895.4 | 1892.7 | 1908.7 | 1578.6 | 1538.7 | 1722.3 | 1991.2 | 1919.3 | 2374.6 | 2454.4 |
| 47.5° | 982.3 | 1016.9 | 1232.5 | 1221.9 | 1240.5 | 1221.9 | 1506.7 | 1488.1 | 1786.2 | 1914.0 |
| 50° | 660.2 | 670.8 | 689.5 | 692.1 | 977.0 | 899.8 | 1022.2 | 1158.0 | 1251.2 | 1448.2 |
| 52.5° | 511.1 | 519.1 | 471.2 | 441.9 | 599.0 | 665.5 | 670.8 | 801.3 | 873.2 | 1072.8 |
| 55° | 284.8 | 319.4 | 343.4 | 346.1 | 330.1 | 492.5 | 489.8 | 593.6 | 649.5 | 782.6 |
| 57.5° | 37.3 | 45.3 | 69.2 | 223.6 | 221.0 | 274.2 | 343.4 | 431.3 | 463.2 | 572.3 |
| 60° | 2.7 | 5.3 | 8.0 | 34.6 | 146.4 | 159.7 | 234.3 | 268.9 | 322.1 | 402.0 |
| 62.5° | 0.0 | 0.0 | 2.7 | 8.0 | 29.3 | 93.2 | 122.5 | 141.1 | 189.0 | 263.5 |
| 65° | 0.0 | 0.0 | 2.7 | 5.3 | 10.6 | 34.6 | 47.9 | 77.2 | 111.8 | 162.4 |
| 67.5° | 0.0 | 0.0 | 2.7 | 5.3 | 8.0 | 13.3 | 21.3 | 34.6 | 58.6 | 98.5 |
| 70° | 0.0 | 0.0 | 2.7 | 5.3 | 8.0 | 10.6 | 16.0 | 21.3 | 31.9 | 53.2 |
| 72.5° | 0.0 | 0.0 | 2.7 | 2.7 | 5.3 | 13.3 | 13.3 | 16.0 | 21.3 | 29.3 |
| 75° | 0.0 | 0.0 | 2.7 | 5.3 | 8.0 | 13.3 | 13.3 | 13.3 | 16.0 | 18.6 |
| 77.5° | 0.0 | 0.0 | 2.7 | 5.3 | 8.0 | 13.3 | 10.6 | 13.3 | 13.3 | 13.3 |
| 80° | 0.0 | 0.0 | 2.7 | 5.3 | 8.0 | 13.3 | 16.0 | 13.3 | 10.6 | 10.6 |
| 82.5° | 0.0 | 0.0 | 2.7 | 8.0 | 8.0 | 18.6 | 18.6 | 18.6 | 8.0 | 8.0 |
| 85° | 0.0 | 0.0 | 5.3 | 8.0 | 13.3 | 21.3 | 21.3 | 16.0 | 8.0 | 5.3 |
| 87.5° | 0.0 | 0.0 | 2.7 | 5.3 | 5.3 | 10.6 | 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 24759.8 | 0° | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 | 24759.8 |
| 24528.2 | 2.5° | 24725.2 | 24658.6 | 24783.7 | 24799.7 | 24746.4 | 24679.9 | 24525.5 | 24512.2 | 24243.3 |
| 23985.1 | 5° | 24256.6 | 24147.5 | 24227.3 | 24280.6 | 24262.0 | 24190.1 | 24126.2 | 24067.6 | 23825.4 |
| 23104.0 | 7.5° | 23383.5 | 23343.5 | 23380.8 | 23420.7 | 23497.9 | 23420.7 | 23394.1 | 23332.9 | 23093.3 |
| 22236.1 | 10° | 22414.5 | 22340.0 | 22481.0 | 22462.4 | 22441.1 | 22419.8 | 22308.0 | 22318.7 | 22036.5 |
| 21054.2 | 12.5° | 21224.6 | 21099.4 | 21235.2 | 21251.2 | 21235.2 | 21160.7 | 21035.5 | 21088.8 | 20830.6 |
| 19456.9 | 15° | 19624.7 | 19611.3 | 19709.8 | 19773.7 | 19819.0 | 19739.1 | 19696.5 | 19723.2 | 19568.8 |
| 17401.8 | 17.5° | 17660.1 | 17833.1 | 18155.2 | 18264.3 | 18267.0 | 18349.5 | 18325.6 | 18293.6 | 18179.2 |
| 15125.8 | 20° | 15349.4 | 15682.2 | 16177.3 | 16685.8 | 16832.2 | 16763.0 | 16731.0 | 16789.6 | 16619.2 |
| 12988.2 | 22.5° | 13217.1 | 13501.9 | 14076.9 | 14819.7 | 15248.2 | 15290.8 | 15282.8 | 15232.3 | 15165.7 |
| 11276.5 | 25° | 11406.9 | 11659.8 | 12210.8 | 12889.7 | 13712.2 | 13834.7 | 13840.0 | 13824.0 | 13765.5 |
| 9724.5 | 27.5° | 9878.9 | 10185.0 | 10488.5 | 11095.4 | 11971.3 | 12477.0 | 12413.2 | 12394.5 | 12373.2 |
| 8414.8 | 30° | 8494.6 | 8880.6 | 9165.4 | 9543.5 | 10328.8 | 11012.9 | 11079.5 | 11047.5 | 10996.9 |
| 7331.3 | 32.5° | 7397.8 | 7626.8 | 7988.8 | 8244.4 | 8808.7 | 9583.4 | 9838.9 | 9815.0 | 9769.7 |
| 6354.3 | 35° | 6444.8 | 6535.3 | 6820.2 | 7105.0 | 7480.4 | 8231.1 | 8609.1 | 8555.8 | 8547.9 |
| 5177.7 | 37.5° | 5308.1 | 5611.6 | 5768.7 | 6056.2 | 6319.7 | 6902.7 | 7424.5 | 7400.5 | 7403.2 |
| 4163.5 | 40° | 4285.9 | 4461.6 | 4773.1 | 5015.3 | 5257.6 | 5683.5 | 6263.8 | 6279.8 | 6274.5 |
| 3223.7 | 42.5° | 3290.3 | 3460.7 | 3788.1 | 4051.6 | 4267.3 | 4530.8 | 5084.5 | 5103.2 | 5127.1 |
| 2510.3 | 45° | 2568.9 | 2678.0 | 2917.6 | 3191.8 | 3420.7 | 3580.5 | 4001.1 | 4120.9 | 4123.5 |
| 1946.0 | 47.5° | 1993.9 | 2119.0 | 2289.4 | 2552.9 | 2776.5 | 2891.0 | 3197.1 | 3359.5 | 3351.5 |
| 1493.4 | 50° | 1565.3 | 1679.8 | 1818.2 | 2025.8 | 2268.1 | 2358.6 | 2584.9 | 2744.6 | 2736.6 |
| 1126.0 | 52.5° | 1197.9 | 1344.3 | 1466.8 | 1626.5 | 1863.4 | 1940.6 | 2103.0 | 2286.7 | 2260.1 |
| 825.2 | 55° | 907.8 | 1056.8 | 1171.3 | 1304.4 | 1520.0 | 1618.5 | 1730.3 | 1876.7 | 1882.1 |
| 638.9 | 57.5° | 684.1 | 838.5 | 942.4 | 1078.1 | 1240.5 | 1349.7 | 1434.8 | 1591.9 | 1589.2 |
| 436.6 | 60° | 489.8 | 622.9 | 748.0 | 889.1 | 1014.2 | 1139.4 | 1197.9 | 1347.0 | 1352.3 |
| 308.8 | 62.5° | 354.1 | 479.2 | 599.0 | 721.4 | 833.2 | 955.7 | 1008.9 | 1126.0 | 1142.0 |
| 202.3 | 65° | 247.6 | 335.4 | 473.8 | 567.0 | 692.1 | 782.6 | 851.9 | 953.0 | 971.6 |
| 119.8 | 67.5° | 159.7 | 242.2 | 375.3 | 457.9 | 572.3 | 649.5 | 721.4 | 801.3 | 825.2 |
| 77.2 | 70° | 95.8 | 183.7 | 279.5 | 367.4 | 471.2 | 540.4 | 609.6 | 678.8 | 692.1 |
| 37.3 | 72.5° | 61.2 | 127.8 | 202.3 | 298.1 | 378.0 | 452.5 | 513.8 | 564.4 | 524.4 |
| 24.0 | 75° | 34.6 | 87.8 | 159.7 | 234.3 | 306.1 | 378.0 | 428.6 | 455.2 | 364.7 |
| 16.0 | 77.5° | 21.3 | 63.9 | 130.4 | 189.0 | 236.9 | 303.5 | 335.4 | 351.4 | 260.9 |
| 10.6 | 80° | 13.3 | 47.9 | 109.1 | 154.4 | 154.4 | 223.6 | 260.9 | 274.2 | 189.0 |
| 8.0 | 82.5° | 10.6 | 34.6 | 85.2 | 117.1 | 103.8 | 167.7 | 205.0 | 207.6 | 133.1 |
| 5.3 | 85° | 8.0 | 26.6 | 53.2 | 77.2 | 71.9 | 117.1 | 119.8 | 133.1 | 87.8 |
| 5.3 | 87.5° | 5.3 | 16.0 | 31.9 | 45.3 | 39.9 | 55.9 | 63.9 | 71.9 | 47.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
24759.8
24033.0
23631.0
23042.7
21940.6
20756.0
19382.4
18008.8
16496.7
15037.9
13568.5
12248.1
10933.1
9649.9
8460.0
7318.0
6181.3
5047.3
4054.3
3322.2
2736.6
2262.7
1882.1
1583.9
1339.0
1136.7
966.3
822.6
681.5
487.2
346.1
244.9
175.7
122.5
79.9
42.6
0.0

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