

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: P637330

Luminaire Tested: **IFLD-S-SA6D-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637330
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40155.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

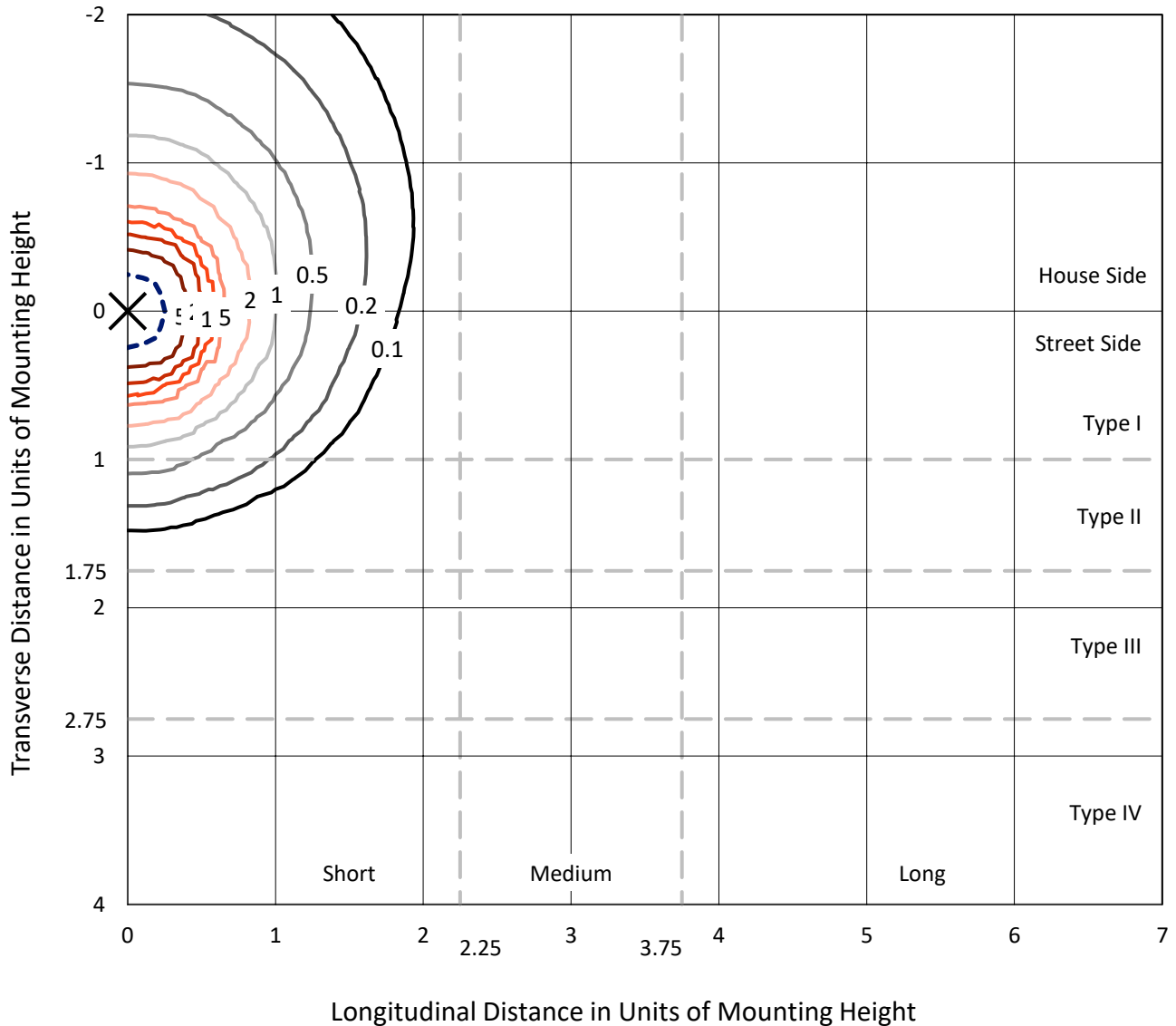
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

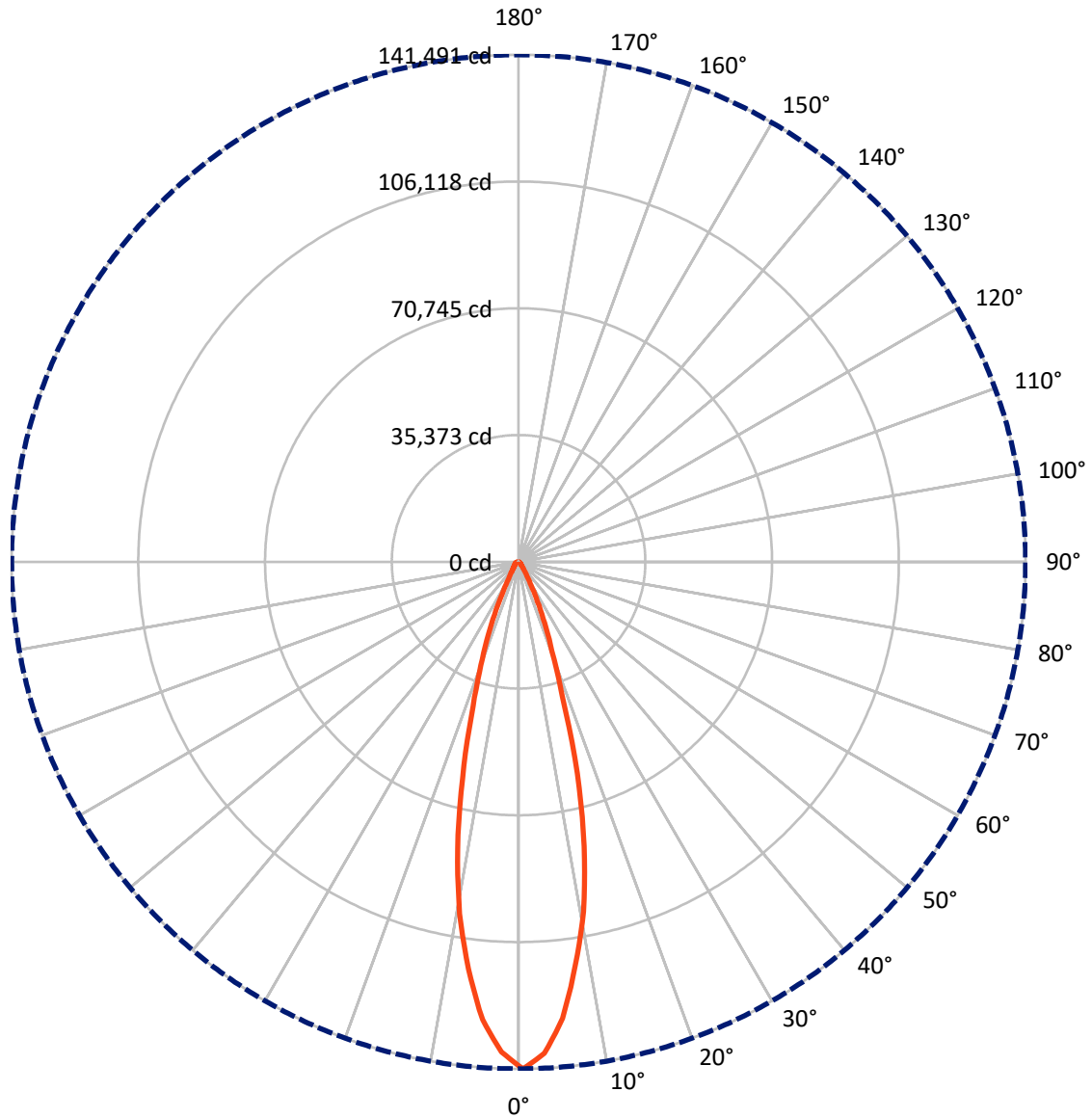
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 353.7 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21172.7 | 0.0 | 21172.7 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 18982.8 | 0.0 | 18982.8 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 40155.6 | 0.0 | 40155.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 11419.6 | 28.4 |
| 10°-20° | 17294.9 | 43.1 |
| 20°-30° | 7298.5 | 18.2 |
| 30°-40° | 1903.5 | 4.7 |
| 40°-50° | 962.8 | 2.4 |
| 50°-60° | 629.3 | 1.6 |
| 60°-70° | 377.0 | 0.9 |
| 70°-80° | 198.3 | 0.5 |
| 80°-90° | 71.6 | 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° | 40155.6 | 100.0 |
| 0°-180° | 40155.6 | 100.0 |

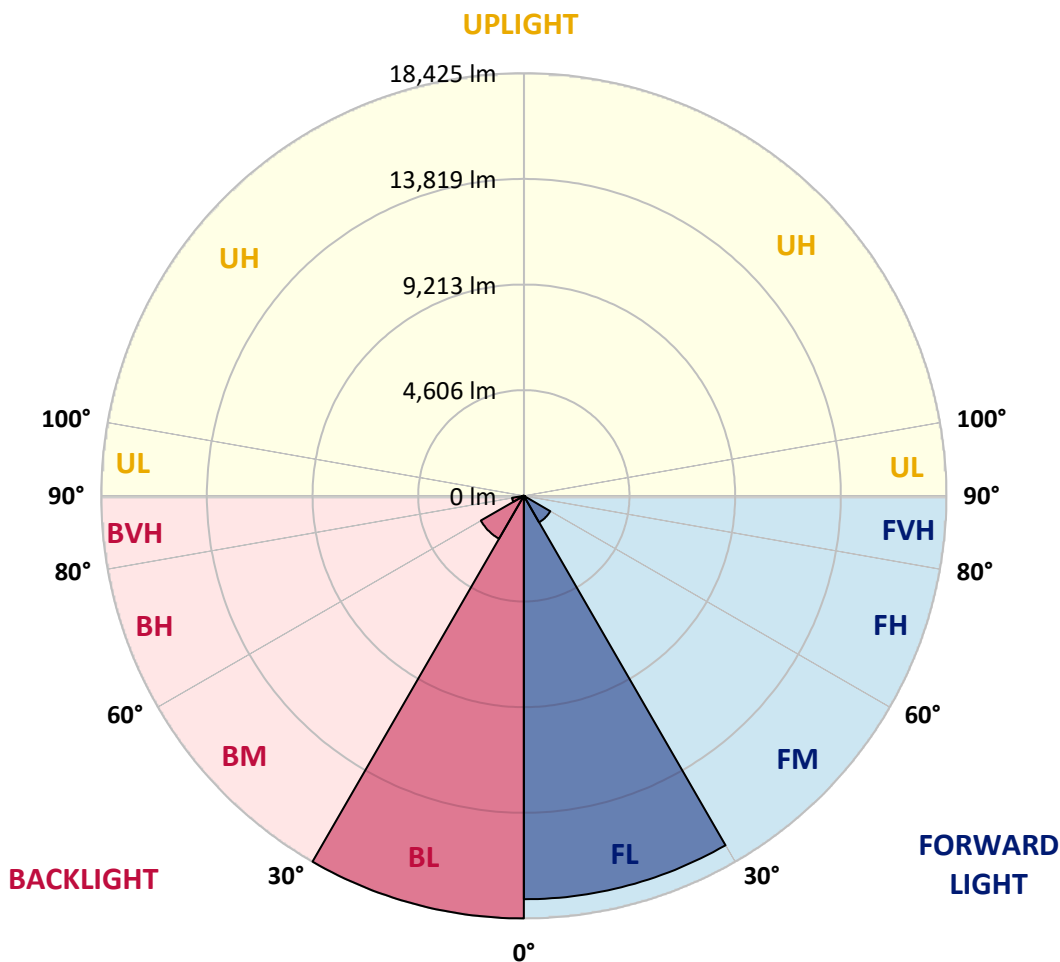


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 17587.9 | 43.8 | | | |
| FM (30°-60°) | 1332.0 | 3.3 | | | |
| FH (60°-80°) | 54.3 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 8.7 | 0.0 | | | G0/10 |
| BL (0°-30°) | 18425.1 | 45.9 | B5 | | |
| BM (30°-60°) | 2163.6 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 521.1 | 1.3 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 62.9 | 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° | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 |
| 2.5° | 137369.2 | 137445.9 | 137161.8 | 137775.1 | 137297.0 | 138577.7 | 137941.9 | 138934.0 | 138600.3 | 139155.0 |
| 5° | 127989.4 | 127863.1 | 127781.9 | 128733.4 | 128458.4 | 129833.8 | 128954.4 | 128665.8 | 129558.7 | 129396.4 |
| 7.5° | 113825.0 | 114158.7 | 113969.3 | 114217.3 | 114357.1 | 115926.4 | 116422.4 | 116034.6 | 116048.2 | 116273.6 |
| 10° | 99304.3 | 98812.7 | 98113.8 | 98578.2 | 99561.3 | 100246.8 | 99971.7 | 100539.9 | 100413.6 | 100950.3 |
| 12.5° | 81437.5 | 81825.4 | 81433.0 | 81018.2 | 82736.3 | 82546.9 | 83024.9 | 83336.0 | 82555.9 | 84292.1 |
| 15° | 61343.1 | 61546.0 | 62024.0 | 61992.5 | 63313.8 | 63579.8 | 63516.7 | 63845.9 | 63237.1 | 63525.7 |
| 17.5° | 39408.8 | 40094.2 | 41379.4 | 43553.0 | 45997.2 | 46281.3 | 46209.1 | 45938.5 | 45645.4 | 45320.7 |
| 20° | 26470.9 | 26398.8 | 26863.2 | 27499.1 | 32558.8 | 33898.1 | 33857.5 | 33009.7 | 31783.1 | 31548.6 |
| 22.5° | 18543.2 | 18678.5 | 18615.3 | 19246.7 | 20292.9 | 23986.2 | 23530.7 | 22669.4 | 22268.0 | 22006.5 |
| 25° | 12198.3 | 12148.7 | 12464.3 | 12653.7 | 13551.1 | 14002.1 | 15598.5 | 15278.3 | 14660.5 | 14728.1 |
| 27.5° | 7436.2 | 7499.3 | 7616.6 | 7778.9 | 8414.8 | 8270.5 | 9181.4 | 9303.2 | 9104.7 | 8892.8 |
| 30° | 4563.6 | 4608.7 | 4703.4 | 4820.7 | 5041.7 | 4883.8 | 5136.4 | 5573.8 | 5501.6 | 5352.8 |
| 32.5° | 3098.0 | 3102.6 | 3170.2 | 3215.3 | 3188.2 | 3039.4 | 3120.6 | 3535.5 | 3544.5 | 3531.0 |
| 35° | 2227.7 | 2227.7 | 2290.8 | 2326.9 | 2250.3 | 2128.5 | 2142.0 | 2399.1 | 2511.8 | 2534.4 |
| 37.5° | 1537.7 | 1542.3 | 1650.5 | 1758.7 | 1673.0 | 1641.5 | 1587.4 | 1758.7 | 1939.1 | 1966.2 |
| 40° | 1168.0 | 1163.5 | 1217.6 | 1298.7 | 1307.8 | 1249.1 | 1267.2 | 1375.4 | 1560.3 | 1582.8 |
| 42.5° | 947.0 | 951.5 | 978.6 | 969.5 | 974.1 | 1050.7 | 1077.8 | 1127.4 | 1298.7 | 1339.3 |
| 45° | 798.2 | 802.7 | 816.2 | 771.1 | 753.1 | 870.3 | 906.4 | 933.5 | 1077.8 | 1127.4 |
| 47.5° | 658.4 | 667.4 | 680.9 | 631.3 | 622.3 | 699.0 | 762.1 | 789.2 | 915.4 | 969.5 |
| 50° | 473.5 | 482.5 | 532.1 | 505.1 | 532.1 | 550.2 | 635.8 | 676.4 | 762.1 | 834.3 |
| 52.5° | 342.7 | 351.7 | 365.3 | 369.8 | 437.4 | 446.4 | 509.6 | 572.7 | 613.3 | 694.5 |
| 55° | 270.6 | 279.6 | 270.6 | 261.6 | 320.2 | 369.8 | 392.3 | 460.0 | 491.5 | 586.2 |
| 57.5° | 153.3 | 162.3 | 175.9 | 202.9 | 211.9 | 284.1 | 306.6 | 365.3 | 392.3 | 482.5 |
| 60° | 27.1 | 31.6 | 49.6 | 121.8 | 148.8 | 180.4 | 230.0 | 279.6 | 315.7 | 378.8 |
| 62.5° | 4.5 | 4.5 | 9.0 | 27.1 | 85.7 | 126.3 | 166.9 | 198.4 | 230.0 | 288.6 |
| 65° | 0.0 | 0.0 | 4.5 | 9.0 | 22.5 | 72.2 | 90.2 | 117.2 | 157.8 | 207.4 |
| 67.5° | 0.0 | 0.0 | 4.5 | 9.0 | 13.5 | 27.1 | 40.6 | 72.2 | 90.2 | 139.8 |
| 70° | 0.0 | 0.0 | 4.5 | 9.0 | 13.5 | 18.0 | 22.5 | 31.6 | 54.1 | 85.7 |
| 72.5° | 0.0 | 0.0 | 4.5 | 9.0 | 13.5 | 18.0 | 22.5 | 27.1 | 27.1 | 54.1 |
| 75° | 0.0 | 0.0 | 4.5 | 9.0 | 13.5 | 22.5 | 27.1 | 27.1 | 22.5 | 22.5 |
| 77.5° | 0.0 | 0.0 | 4.5 | 9.0 | 18.0 | 27.1 | 31.6 | 27.1 | 18.0 | 18.0 |
| 80° | 0.0 | 0.0 | 9.0 | 13.5 | 22.5 | 31.6 | 40.6 | 31.6 | 18.0 | 9.0 |
| 82.5° | 0.0 | 0.0 | 9.0 | 18.0 | 22.5 | 36.1 | 49.6 | 40.6 | 18.0 | 9.0 |
| 85° | 0.0 | 0.0 | 4.5 | 13.5 | 27.1 | 36.1 | 49.6 | 36.1 | 18.0 | 4.5 |
| 87.5° | 0.0 | 0.0 | 4.5 | 4.5 | 9.0 | 13.5 | 27.1 | 22.5 | 9.0 | 4.5 |
| 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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CATALOG NUMBER: IFLD-S-SA6D-730-U-44-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 141490.9 | 0° | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 | 141490.9 |
| 138104.2 | 2.5° | 138897.9 | 139619.4 | 139768.3 | 139569.8 | 139858.5 | 139339.9 | 138943.0 | 137914.8 | 137297.0 |
| 129346.7 | 5° | 130181.0 | 130072.8 | 130825.9 | 131073.9 | 131042.3 | 130645.5 | 130090.8 | 129468.5 | 128864.2 |
| 115836.2 | 7.5° | 116557.7 | 116697.5 | 117383.0 | 117820.4 | 117599.4 | 117103.4 | 116720.1 | 116251.1 | 115845.2 |
| 101144.2 | 10° | 102068.6 | 101108.1 | 101960.4 | 101960.4 | 102551.1 | 101148.7 | 101279.5 | 100098.0 | 100152.1 |
| 84260.5 | 12.5° | 84549.1 | 84896.3 | 85036.1 | 85437.5 | 84747.5 | 84003.5 | 83092.5 | 82912.2 | 82348.5 |
| 62975.5 | 15° | 63882.0 | 64874.0 | 64021.7 | 65478.3 | 64774.8 | 63999.2 | 63859.4 | 62461.5 | 62903.4 |
| 45677.0 | 17.5° | 45451.5 | 46547.3 | 46890.1 | 47724.3 | 47084.0 | 46624.0 | 46042.3 | 45618.4 | 45586.8 |
| 31977.1 | 20° | 32229.6 | 33329.9 | 33582.4 | 34583.6 | 34511.4 | 34367.1 | 33875.6 | 33338.9 | 32757.2 |
| 21767.5 | 22.5° | 22096.7 | 22994.1 | 23832.8 | 25181.2 | 25158.6 | 24734.8 | 24685.1 | 23927.5 | 23941.1 |
| 14705.6 | 25° | 14858.9 | 15512.8 | 15711.2 | 17091.1 | 17244.4 | 17199.3 | 16942.3 | 16238.8 | 16504.9 |
| 8983.0 | 27.5° | 8992.0 | 9564.7 | 10236.6 | 10723.7 | 11183.6 | 11111.5 | 10854.4 | 10462.1 | 10290.7 |
| 5397.9 | 30° | 5542.2 | 5799.3 | 6047.3 | 6633.5 | 6908.6 | 7052.9 | 6931.1 | 6565.9 | 6592.9 |
| 3553.5 | 32.5° | 3630.2 | 3846.6 | 4027.0 | 4396.8 | 4541.1 | 4807.2 | 4757.6 | 4680.9 | 4590.7 |
| 2556.9 | 35° | 2647.1 | 2804.9 | 2926.7 | 3098.0 | 3282.9 | 3508.4 | 3544.5 | 3512.9 | 3476.8 |
| 1975.2 | 37.5° | 2020.3 | 2182.6 | 2322.4 | 2394.6 | 2538.9 | 2714.7 | 2813.9 | 2809.4 | 2782.4 |
| 1609.9 | 40° | 1641.5 | 1763.2 | 1889.5 | 1984.2 | 2083.4 | 2214.2 | 2335.9 | 2349.5 | 2349.5 |
| 1352.9 | 42.5° | 1370.9 | 1474.6 | 1600.9 | 1700.1 | 1772.2 | 1894.0 | 2020.3 | 2029.3 | 2020.3 |
| 1145.4 | 45° | 1172.5 | 1262.7 | 1384.4 | 1501.7 | 1560.3 | 1650.5 | 1772.2 | 1799.3 | 1781.3 |
| 983.1 | 47.5° | 1019.2 | 1100.3 | 1204.0 | 1330.3 | 1393.4 | 1474.6 | 1587.4 | 1618.9 | 1614.4 |
| 847.8 | 50° | 874.8 | 969.5 | 1073.3 | 1177.0 | 1258.2 | 1334.8 | 1443.0 | 1479.1 | 1465.6 |
| 721.5 | 52.5° | 771.1 | 856.8 | 947.0 | 1059.7 | 1154.4 | 1222.1 | 1307.8 | 1370.9 | 1352.9 |
| 608.8 | 55° | 644.9 | 748.6 | 843.3 | 938.0 | 1055.2 | 1127.4 | 1208.6 | 1285.2 | 1267.2 |
| 514.1 | 57.5° | 559.2 | 644.9 | 753.1 | 838.8 | 956.0 | 1041.7 | 1122.9 | 1204.0 | 1199.5 |
| 419.4 | 60° | 469.0 | 559.2 | 662.9 | 753.1 | 861.3 | 956.0 | 1037.2 | 1127.4 | 1136.4 |
| 315.7 | 62.5° | 369.8 | 478.0 | 568.2 | 671.9 | 780.1 | 883.9 | 956.0 | 1046.2 | 1059.7 |
| 239.0 | 65° | 279.6 | 392.3 | 491.5 | 590.7 | 699.0 | 811.7 | 874.8 | 951.5 | 965.0 |
| 175.9 | 67.5° | 207.4 | 302.1 | 419.4 | 509.6 | 622.3 | 730.5 | 789.2 | 852.3 | 874.8 |
| 108.2 | 70° | 157.8 | 230.0 | 351.7 | 437.4 | 554.7 | 640.4 | 703.5 | 757.6 | 775.6 |
| 72.2 | 72.5° | 99.2 | 180.4 | 284.1 | 374.3 | 478.0 | 554.7 | 599.8 | 631.3 | 658.4 |
| 40.6 | 75° | 67.6 | 139.8 | 230.0 | 320.2 | 396.8 | 455.5 | 496.0 | 523.1 | 545.7 |
| 18.0 | 77.5° | 40.6 | 108.2 | 189.4 | 266.1 | 315.7 | 360.8 | 401.3 | 419.4 | 432.9 |
| 13.5 | 80° | 22.5 | 81.2 | 157.8 | 216.5 | 248.0 | 279.6 | 311.2 | 333.7 | 342.7 |
| 9.0 | 82.5° | 13.5 | 63.1 | 126.3 | 166.9 | 180.4 | 211.9 | 243.5 | 257.0 | 257.0 |
| 4.5 | 85° | 9.0 | 45.1 | 85.7 | 121.8 | 130.8 | 153.3 | 162.3 | 171.4 | 180.4 |
| 4.5 | 87.5° | 9.0 | 27.1 | 54.1 | 67.6 | 72.2 | 81.2 | 85.7 | 94.7 | 103.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
141490.9
136841.6
128187.8
114469.8
99624.5
81834.4
62461.5
44748.0
32504.7
23679.5
16085.5
10141.9
6475.7
4559.1
3463.3
2768.8
2322.4
2011.2
1781.3
1605.4
1456.6
1348.3
1276.2
1204.0
1140.9
1068.8
978.6
883.9
784.7
653.9
541.1
428.4
333.7
252.5
175.9
99.2
0.0

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