

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: P638232

Luminaire Tested: **IFLD-M-SA4B-760-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638232
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-760-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17970 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

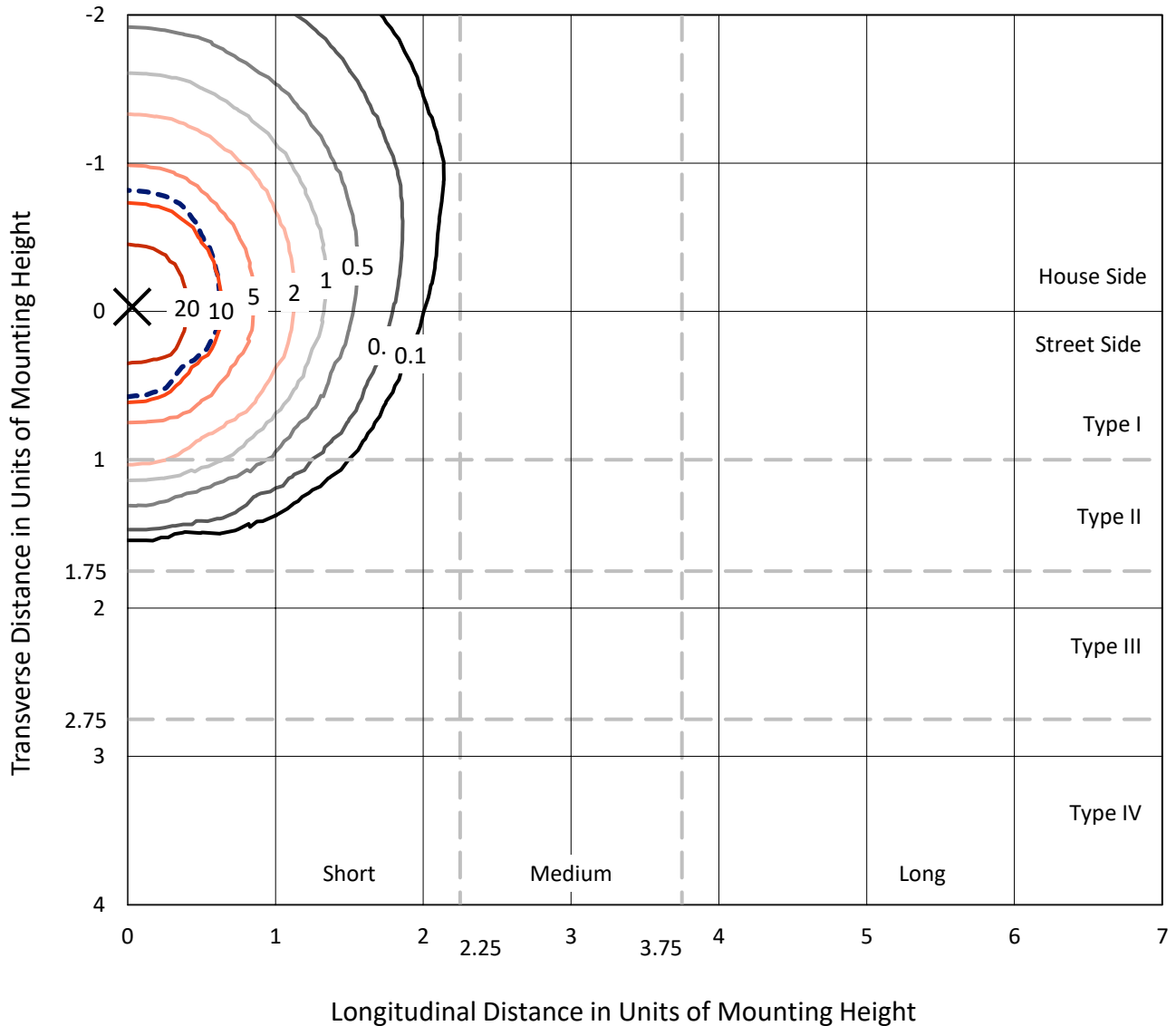
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

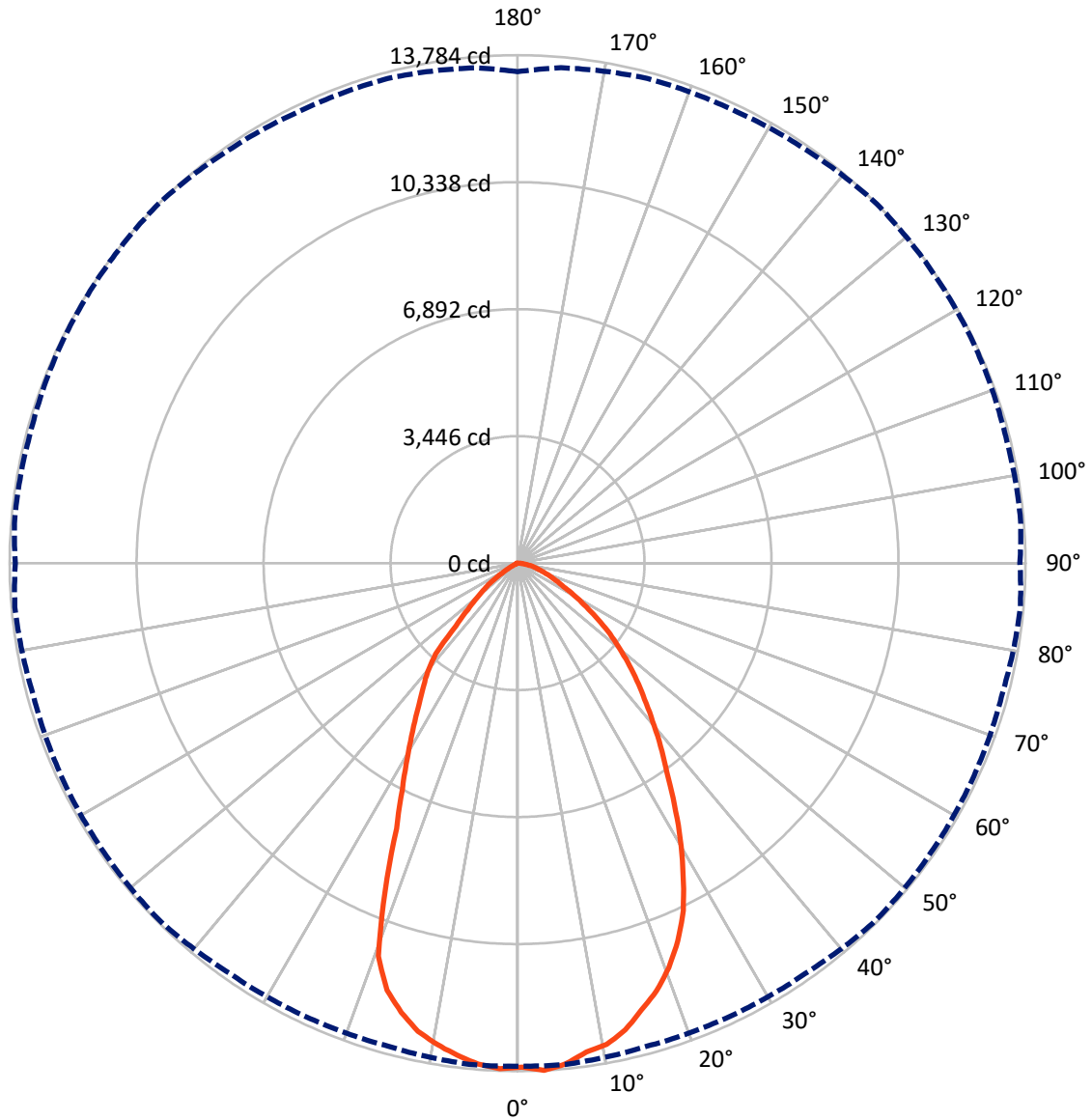
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10642.8 | 0.0 | 10642.8 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 7327.3 | 0.0 | 7327.3 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 17970.0 | 0.0 | 17970.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1282.5 | 7.1 |
| 10°-20° | 3439.1 | 19.1 |
| 20°-30° | 4194.2 | 23.3 |
| 30°-40° | 3829.3 | 21.3 |
| 40°-50° | 2767.3 | 15.4 |
| 50°-60° | 1511.0 | 8.4 |
| 60°-70° | 624.7 | 3.5 |
| 70°-80° | 253.0 | 1.4 |
| 80°-90° | 68.8 | 0.4 |
| 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° | 17970.0 | 100.0 |
| 0°-180° | 17970.0 | 100.0 |



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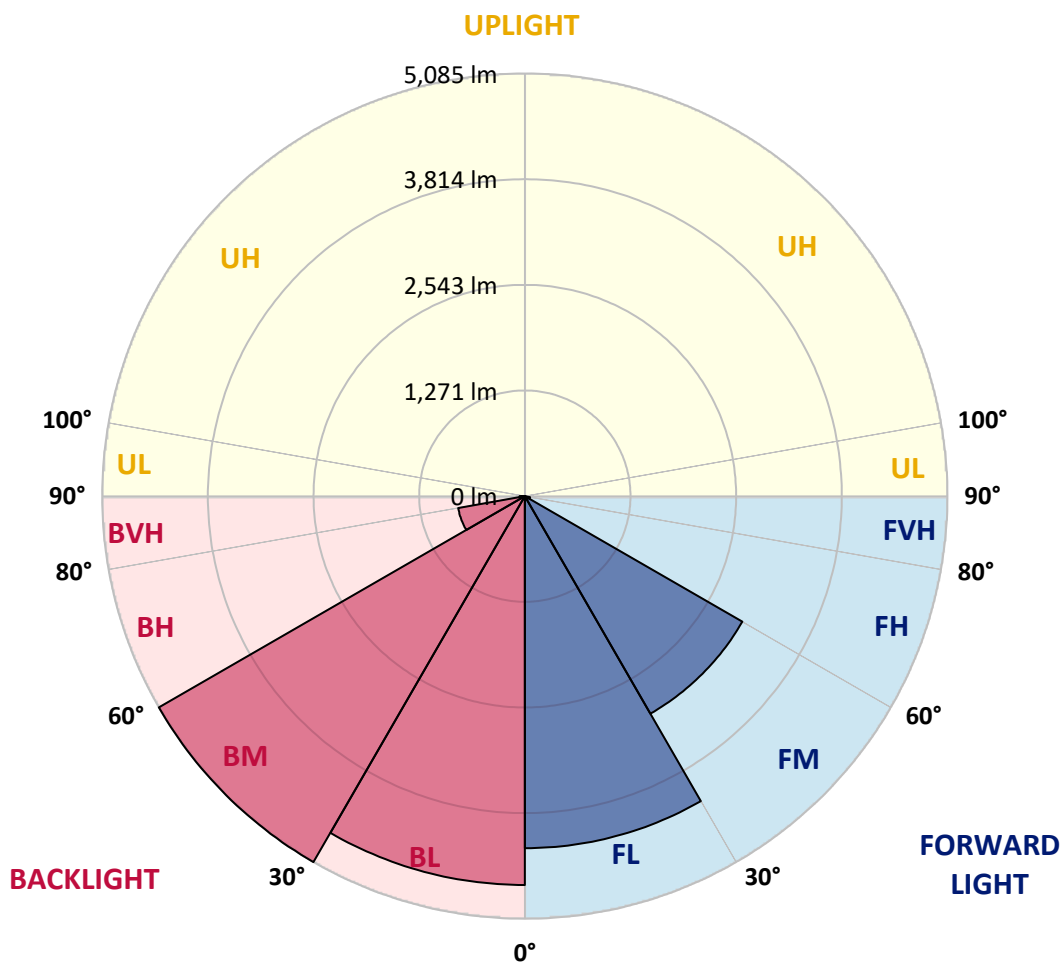
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4236.2 | 23.6 | | | |
| FM (30°-60°) | 3022.2 | 16.8 | | | |
| FH (60°-80°) | 63.3 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 5.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 4679.7 | 26.0 | B4/5000 | | |
| BM (30°-60°) | 5085.4 | 28.3 | B4/8500 | | |
| BH (60°-80°) | 814.4 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 63.3 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 |
| 2.5° | 13649.8 | 13667.6 | 13571.4 | 13581.5 | 13599.2 | 13728.3 | 13695.4 | 13665.0 | 13622.0 | 13695.4 |
| 5° | 13632.1 | 13642.2 | 13541.0 | 13505.6 | 13520.8 | 13637.2 | 13530.9 | 13530.9 | 13520.8 | 13508.1 |
| 7.5° | 13495.5 | 13500.5 | 13422.1 | 13358.8 | 13399.3 | 13452.5 | 13374.0 | 13412.0 | 13356.3 | 13399.3 |
| 10° | 13290.5 | 13257.6 | 13164.0 | 13146.3 | 13191.8 | 13242.4 | 13189.3 | 13224.7 | 13174.1 | 13207.0 |
| 12.5° | 12989.4 | 12938.8 | 12862.8 | 12840.1 | 12918.5 | 12986.8 | 12943.8 | 12923.6 | 12857.8 | 12938.8 |
| 15° | 11827.8 | 11789.9 | 11962.0 | 12263.1 | 12533.9 | 12592.1 | 12546.5 | 12566.8 | 12430.1 | 12452.9 |
| 17.5° | 9735.1 | 9664.2 | 9848.9 | 10562.6 | 11579.8 | 12116.3 | 12075.8 | 11944.2 | 11741.8 | 11787.3 |
| 20° | 8846.8 | 8826.6 | 8806.3 | 8975.9 | 9687.0 | 11314.1 | 11369.8 | 11035.8 | 10747.3 | 10684.0 |
| 22.5° | 8345.8 | 8338.2 | 8318.0 | 8355.9 | 8543.2 | 9588.3 | 10226.0 | 9917.3 | 9724.9 | 9707.2 |
| 25° | 7887.8 | 7875.1 | 7814.4 | 7862.5 | 7862.5 | 7923.2 | 8740.6 | 8927.8 | 8758.3 | 8738.0 |
| 27.5° | 7422.1 | 7399.4 | 7389.2 | 7412.0 | 7295.6 | 6885.7 | 7093.2 | 8006.7 | 7918.1 | 7923.2 |
| 30° | 6918.6 | 6911.0 | 6883.1 | 6931.2 | 6571.9 | 6063.2 | 5931.6 | 7171.6 | 7189.3 | 7184.3 |
| 32.5° | 6169.5 | 6202.4 | 6328.9 | 6382.1 | 5789.9 | 5369.8 | 5149.7 | 6204.9 | 6566.8 | 6559.2 |
| 35° | 4481.6 | 4481.6 | 4894.1 | 5660.9 | 5073.8 | 4757.5 | 4638.5 | 5261.0 | 5951.9 | 5977.2 |
| 37.5° | 3684.5 | 3697.1 | 3778.1 | 4127.3 | 4377.9 | 4266.5 | 4231.1 | 4428.5 | 5162.3 | 5202.8 |
| 40° | 3315.0 | 3315.0 | 3315.0 | 3170.8 | 3163.2 | 3843.9 | 3823.7 | 3760.4 | 4458.8 | 4547.4 |
| 42.5° | 2978.5 | 2986.1 | 2991.1 | 2626.7 | 2424.3 | 3322.6 | 3277.1 | 3180.9 | 3828.7 | 3932.5 |
| 45° | 2631.8 | 2644.4 | 2659.6 | 2196.5 | 2108.0 | 2391.4 | 2773.5 | 2667.2 | 3206.2 | 3340.3 |
| 47.5° | 1606.9 | 1627.2 | 1971.3 | 1862.5 | 1872.6 | 1844.8 | 2262.3 | 2244.6 | 2629.3 | 2819.0 |
| 50° | 1085.6 | 1093.2 | 1126.1 | 1181.8 | 1606.9 | 1450.0 | 1601.8 | 1857.4 | 1996.6 | 2285.1 |
| 52.5° | 911.0 | 923.7 | 842.7 | 766.8 | 1055.2 | 1133.7 | 1118.5 | 1379.2 | 1434.8 | 1791.6 |
| 55° | 640.2 | 680.7 | 642.8 | 635.2 | 599.7 | 880.6 | 847.7 | 1060.3 | 1095.7 | 1361.4 |
| 57.5° | 65.8 | 75.9 | 131.6 | 473.2 | 392.2 | 498.5 | 604.8 | 776.9 | 812.3 | 1004.6 |
| 60° | 5.1 | 5.1 | 12.7 | 65.8 | 286.0 | 298.6 | 417.5 | 478.3 | 546.6 | 701.0 |
| 62.5° | 0.0 | 2.5 | 5.1 | 10.1 | 45.6 | 159.4 | 210.0 | 250.5 | 329.0 | 453.0 |
| 65° | 0.0 | 0.0 | 2.5 | 7.6 | 10.1 | 60.7 | 81.0 | 131.6 | 179.7 | 280.9 |
| 67.5° | 0.0 | 0.0 | 2.5 | 5.1 | 7.6 | 15.2 | 27.8 | 48.1 | 96.2 | 159.4 |
| 70° | 0.0 | 0.0 | 2.5 | 5.1 | 7.6 | 12.7 | 20.2 | 30.4 | 43.0 | 86.0 |
| 72.5° | 0.0 | 0.0 | 2.5 | 2.5 | 5.1 | 12.7 | 15.2 | 20.2 | 30.4 | 43.0 |
| 75° | 0.0 | 0.0 | 2.5 | 2.5 | 7.6 | 15.2 | 12.7 | 15.2 | 20.2 | 27.8 |
| 77.5° | 0.0 | 0.0 | 2.5 | 5.1 | 7.6 | 15.2 | 12.7 | 15.2 | 15.2 | 17.7 |
| 80° | 0.0 | 0.0 | 2.5 | 5.1 | 10.1 | 17.7 | 15.2 | 15.2 | 12.7 | 12.7 |
| 82.5° | 0.0 | 0.0 | 2.5 | 7.6 | 10.1 | 22.8 | 22.8 | 20.2 | 10.1 | 7.6 |
| 85° | 0.0 | 0.0 | 5.1 | 10.1 | 15.2 | 25.3 | 25.3 | 20.2 | 7.6 | 5.1 |
| 87.5° | 0.0 | 0.0 | 5.1 | 7.6 | 12.7 | 17.7 | 25.3 | 20.2 | 7.6 | 2.5 |
| 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-M-SA4B-760-U-77-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13675.1 | 0° | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 | 13675.1 |
| 13632.1 | 2.5° | 13700.5 | 13685.3 | 13735.9 | 13756.1 | 13784.0 | 13677.7 | 13611.9 | 13614.4 | 13492.9 |
| 13477.8 | 5° | 13558.7 | 13561.3 | 13627.1 | 13622.0 | 13649.8 | 13591.6 | 13566.3 | 13523.3 | 13417.0 |
| 13282.9 | 7.5° | 13379.1 | 13356.3 | 13419.6 | 13467.6 | 13396.8 | 13437.3 | 13379.1 | 13399.3 | 13336.1 |
| 13110.8 | 10° | 13239.9 | 13186.7 | 13245.0 | 13277.8 | 13280.4 | 13239.9 | 13184.2 | 13131.1 | 13108.3 |
| 12842.6 | 12.5° | 12931.2 | 12862.8 | 12961.5 | 13007.1 | 12999.5 | 12921.0 | 12857.8 | 12870.4 | 12797.0 |
| 12371.9 | 15° | 12506.0 | 12508.6 | 12579.4 | 12622.4 | 12581.9 | 12564.2 | 12569.3 | 12538.9 | 12475.7 |
| 11721.6 | 17.5° | 11855.7 | 11893.6 | 12080.9 | 12184.6 | 12207.4 | 12172.0 | 12154.3 | 12118.9 | 12055.6 |
| 10684.0 | 20° | 10772.6 | 11000.3 | 11334.4 | 11655.8 | 11719.0 | 11708.9 | 11645.6 | 11630.5 | 11595.0 |
| 9656.6 | 22.5° | 9821.1 | 9990.7 | 10377.8 | 10878.9 | 11137.0 | 11162.3 | 11086.4 | 11063.6 | 11025.7 |
| 8738.0 | 25° | 8836.7 | 9018.9 | 9368.1 | 9912.2 | 10446.2 | 10555.0 | 10542.3 | 10474.0 | 10433.5 |
| 7923.2 | 27.5° | 8006.7 | 8188.9 | 8505.2 | 8996.1 | 9568.0 | 9917.3 | 9950.2 | 9841.3 | 9838.8 |
| 7196.9 | 30° | 7257.6 | 7508.2 | 7748.6 | 8148.4 | 8702.6 | 9226.4 | 9282.1 | 9206.2 | 9213.8 |
| 6531.4 | 32.5° | 6670.6 | 6878.1 | 7083.0 | 7351.3 | 7811.8 | 8421.7 | 8639.3 | 8568.5 | 8540.6 |
| 5977.2 | 35° | 6070.8 | 6212.5 | 6422.6 | 6668.0 | 6981.8 | 7586.6 | 7963.7 | 7910.5 | 7882.7 |
| 5228.1 | 37.5° | 5387.6 | 5630.5 | 5782.3 | 6058.2 | 6303.6 | 6784.4 | 7315.8 | 7308.3 | 7250.1 |
| 4590.4 | 40° | 4686.6 | 4942.2 | 5172.5 | 5450.8 | 5640.6 | 6022.7 | 6612.4 | 6609.8 | 6617.4 |
| 3930.0 | 42.5° | 4051.4 | 4286.8 | 4565.1 | 4868.8 | 5051.0 | 5329.4 | 5962.0 | 5997.4 | 6040.4 |
| 3385.9 | 45° | 3477.0 | 3689.6 | 3947.7 | 4317.1 | 4537.3 | 4696.7 | 5258.5 | 5420.5 | 5417.9 |
| 2900.0 | 47.5° | 2960.8 | 3160.7 | 3378.3 | 3737.6 | 4018.5 | 4162.8 | 4628.4 | 4858.7 | 4843.5 |
| 2378.7 | 50° | 2485.0 | 2662.1 | 2889.9 | 3150.5 | 3527.6 | 3654.1 | 4000.8 | 4304.5 | 4281.7 |
| 1895.4 | 52.5° | 1999.1 | 2244.6 | 2436.9 | 2674.8 | 3072.1 | 3196.1 | 3464.3 | 3760.4 | 3742.7 |
| 1422.2 | 55° | 1558.8 | 1796.7 | 2029.5 | 2234.5 | 2568.5 | 2753.2 | 2945.6 | 3249.2 | 3244.2 |
| 1113.4 | 57.5° | 1179.2 | 1439.9 | 1660.0 | 1854.9 | 2120.6 | 2348.4 | 2502.7 | 2778.6 | 2814.0 |
| 761.7 | 60° | 873.0 | 1073.0 | 1310.8 | 1528.5 | 1738.5 | 1973.8 | 2077.6 | 2348.4 | 2363.5 |
| 521.3 | 62.5° | 594.7 | 814.8 | 1047.7 | 1245.0 | 1401.9 | 1644.9 | 1738.5 | 1961.2 | 1989.0 |
| 334.0 | 65° | 412.5 | 554.2 | 819.9 | 961.6 | 1153.9 | 1361.4 | 1455.1 | 1632.2 | 1687.9 |
| 192.3 | 67.5° | 273.3 | 394.8 | 640.2 | 769.3 | 959.1 | 1100.8 | 1219.7 | 1364.0 | 1424.7 |
| 121.5 | 70° | 149.3 | 291.0 | 458.0 | 607.3 | 771.8 | 908.5 | 1024.9 | 1141.3 | 1194.4 |
| 55.7 | 72.5° | 101.2 | 194.9 | 318.9 | 480.8 | 622.5 | 756.6 | 860.4 | 946.4 | 949.0 |
| 32.9 | 75° | 50.6 | 131.6 | 242.9 | 372.0 | 485.9 | 617.5 | 711.1 | 761.7 | 701.0 |
| 20.2 | 77.5° | 30.4 | 96.2 | 197.4 | 298.6 | 394.8 | 498.5 | 551.7 | 579.5 | 480.8 |
| 15.2 | 80° | 17.7 | 68.3 | 154.4 | 237.9 | 273.3 | 366.9 | 417.5 | 425.1 | 321.4 |
| 10.1 | 82.5° | 12.7 | 50.6 | 121.5 | 174.6 | 167.0 | 258.1 | 313.8 | 303.7 | 205.0 |
| 7.6 | 85° | 7.6 | 35.4 | 75.9 | 108.8 | 101.2 | 169.5 | 182.2 | 187.3 | 118.9 |
| 5.1 | 87.5° | 5.1 | 20.2 | 40.5 | 58.2 | 48.1 | 73.4 | 73.4 | 88.6 | 58.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
13675.1
13336.1
13391.7
13229.8
13007.1
12733.8
12412.4
12027.8
11514.0
11015.5
10390.5
9833.8
9175.8
8543.2
7844.7
7298.1
6617.4
6017.7
5423.0
4848.6
4302.0
3780.7
3256.8
2798.8
2386.3
1994.1
1675.2
1417.1
1174.2
926.2
655.4
463.1
301.1
189.8
108.8
50.6
0.0

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