

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: P638490

Luminaire Tested: **IFLD-S-SA6D-760-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638490
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-760-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34470.4 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

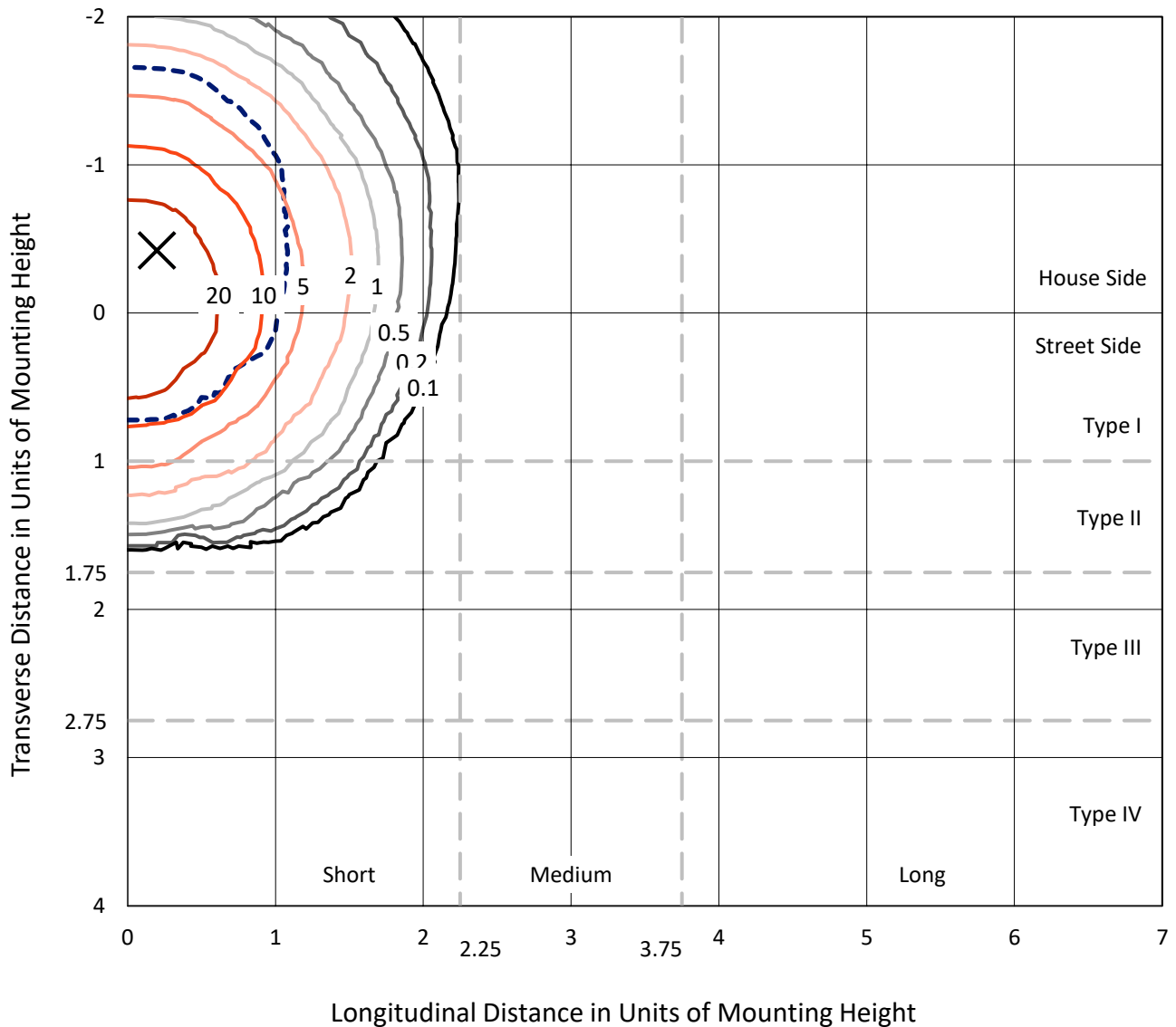
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

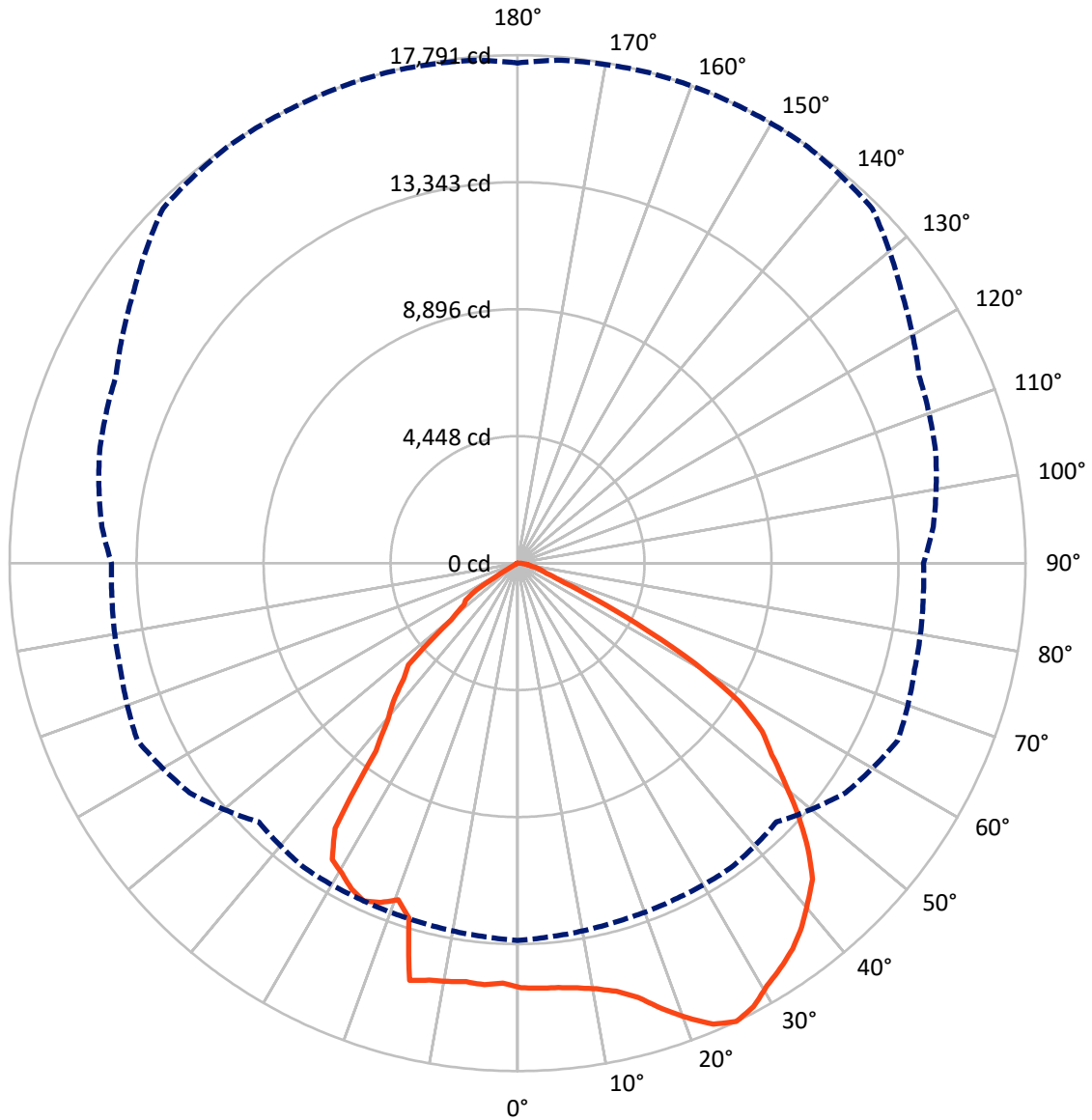
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 37.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21340.7 | 0.0 | 21340.7 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 13129.7 | 0.0 | 13129.7 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 34470.4 | 0.0 | 34470.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1426.9 | 4.1 |
| 10°-20° | 4357.0 | 12.6 |
| 20°-30° | 6888.1 | 20.0 |
| 30°-40° | 7780.7 | 22.6 |
| 40°-50° | 7286.8 | 21.1 |
| 50°-60° | 5023.7 | 14.6 |
| 60°-70° | 1349.7 | 3.9 |
| 70°-80° | 281.3 | 0.8 |
| 80°-90° | 76.1 | 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° | 34470.4 | 100.0 |
| 0°-180° | 34470.4 | 100.0 |

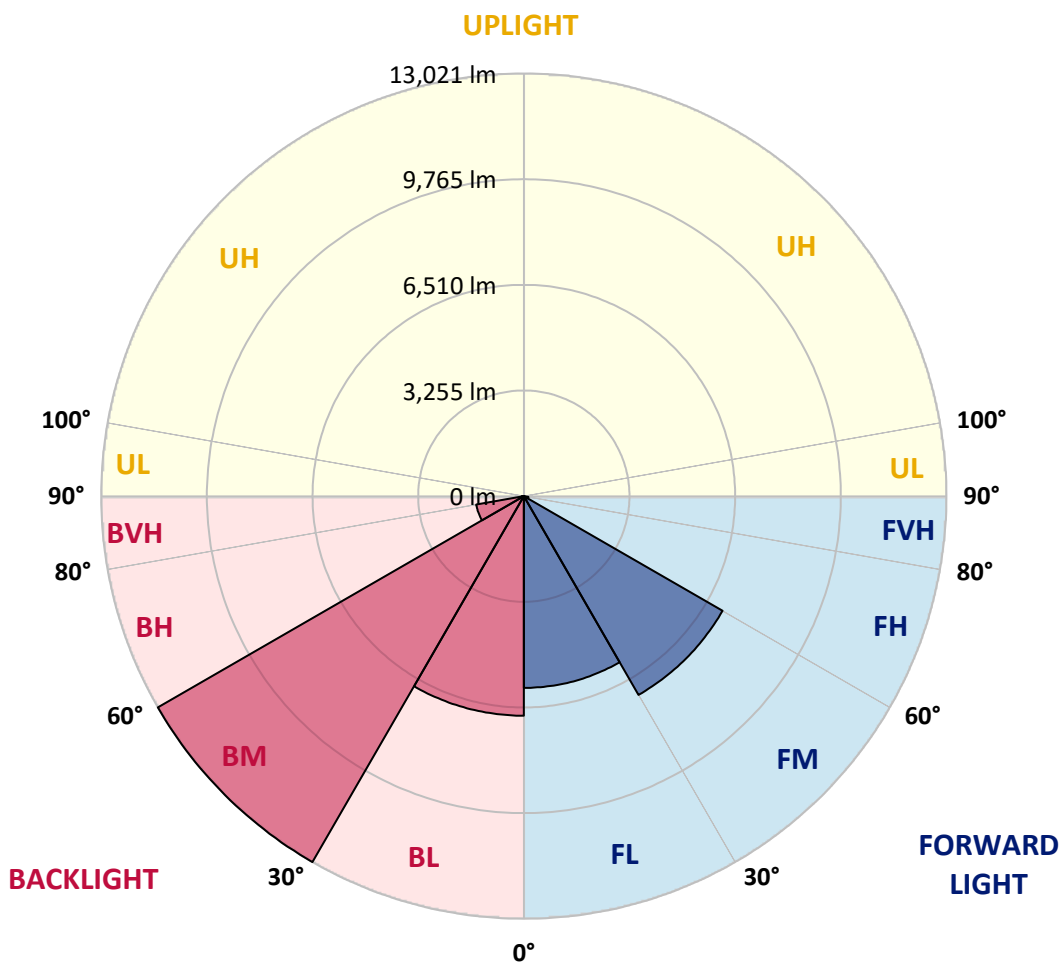


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5907.1 | 17.1 | | | |
| FM (30°-60°) | 7070.6 | 20.5 | | | |
| FH (60°-80°) | 141.7 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 10.2 | 0.0 | | | G1/100 |
| BL (0°-30°) | 6764.9 | 19.6 | B5 | | |
| BM (30°-60°) | 13020.7 | 37.8 | B5 | | |
| BH (60°-80°) | 1489.3 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 65.9 | 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-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 |
| 2.5° | 14939.2 | 14843.0 | 14751.8 | 14721.4 | 14848.0 | 14984.8 | 14898.7 | 14903.7 | 14873.3 | 14929.1 |
| 5° | 15050.7 | 14918.9 | 14858.2 | 14812.6 | 14832.8 | 14974.7 | 14853.1 | 14898.7 | 14848.0 | 14913.9 |
| 7.5° | 15010.1 | 14918.9 | 14858.2 | 14772.0 | 14837.9 | 15005.1 | 14888.5 | 14893.6 | 14868.3 | 14929.1 |
| 10° | 14984.8 | 14918.9 | 14843.0 | 14853.1 | 14929.1 | 15070.9 | 14979.7 | 15030.4 | 14994.9 | 15030.4 |
| 12.5° | 15045.6 | 14974.7 | 14934.1 | 14934.1 | 15000.0 | 15162.1 | 15116.5 | 15162.1 | 15146.9 | 15177.3 |
| 15° | 14473.1 | 14539.0 | 14924.0 | 15096.2 | 15228.0 | 15390.1 | 15369.8 | 15415.4 | 15425.5 | 15471.1 |
| 17.5° | 12208.7 | 12142.9 | 12112.5 | 12999.0 | 15354.6 | 15856.1 | 15840.9 | 15835.9 | 15785.2 | 15749.7 |
| 20° | 12507.6 | 12482.3 | 12446.8 | 12512.7 | 12776.1 | 16099.3 | 16200.6 | 15577.5 | 15395.1 | 15379.9 |
| 22.5° | 12983.8 | 12943.3 | 12811.5 | 12816.6 | 12897.7 | 13997.0 | 15699.1 | 15131.7 | 15070.9 | 15035.5 |
| 25° | 13216.8 | 13135.8 | 13029.4 | 12999.0 | 13024.3 | 12821.7 | 14022.3 | 14696.0 | 14397.2 | 14260.4 |
| 27.5° | 12806.5 | 12811.5 | 12725.4 | 12806.5 | 12710.2 | 11798.4 | 11286.7 | 13845.0 | 13834.8 | 13774.1 |
| 30° | 12497.5 | 12482.3 | 12380.9 | 12482.3 | 11818.6 | 10800.4 | 10582.6 | 12912.9 | 12806.5 | 12725.4 |
| 32.5° | 11550.1 | 11560.3 | 11854.1 | 12249.2 | 11160.1 | 10354.6 | 9696.0 | 11535.0 | 12543.1 | 12497.5 |
| 35° | 8262.4 | 8282.7 | 9326.2 | 11276.6 | 10162.1 | 9468.1 | 9417.4 | 9969.6 | 12127.7 | 12147.9 |
| 37.5° | 7953.4 | 7953.4 | 7928.1 | 8247.2 | 9376.9 | 9108.4 | 9209.7 | 9154.0 | 11109.4 | 11160.1 |
| 40° | 7730.5 | 7684.9 | 7649.4 | 7147.9 | 6519.8 | 8855.1 | 8926.0 | 8672.7 | 10501.5 | 10511.6 |
| 42.5° | 7462.0 | 7411.3 | 7421.5 | 6494.4 | 5835.9 | 8226.9 | 8029.4 | 7690.0 | 9488.3 | 9498.5 |
| 45° | 6970.6 | 7056.7 | 7117.5 | 5683.9 | 5633.2 | 5876.4 | 7406.3 | 7193.5 | 8804.5 | 8991.9 |
| 47.5° | 3546.1 | 3622.1 | 5557.2 | 5228.0 | 5344.5 | 5222.9 | 6256.3 | 6261.4 | 7325.2 | 7948.3 |
| 50° | 3216.8 | 3196.6 | 3201.6 | 3049.6 | 4934.1 | 4224.9 | 4523.8 | 5739.6 | 5866.3 | 6757.9 |
| 52.5° | 2999.0 | 2993.9 | 2684.9 | 2386.0 | 3100.3 | 3718.3 | 3282.7 | 4154.0 | 4361.7 | 5724.4 |
| 55° | 2218.8 | 2381.0 | 2117.5 | 2244.2 | 1940.2 | 2978.7 | 2963.5 | 3748.7 | 3819.7 | 4589.7 |
| 57.5° | 20.3 | 25.3 | 60.8 | 1707.2 | 1342.5 | 1489.4 | 2046.6 | 2558.3 | 2684.9 | 3576.5 |
| 60° | 5.1 | 10.1 | 25.3 | 50.7 | 871.3 | 916.9 | 1367.8 | 1479.2 | 1666.7 | 2132.7 |
| 62.5° | 0.0 | 0.0 | 10.1 | 25.3 | 45.6 | 374.9 | 435.7 | 476.2 | 734.5 | 1089.2 |
| 65° | 0.0 | 0.0 | 5.1 | 15.2 | 25.3 | 60.8 | 106.4 | 222.9 | 319.1 | 395.1 |
| 67.5° | 0.0 | 0.0 | 5.1 | 10.1 | 20.3 | 30.4 | 60.8 | 86.1 | 136.8 | 233.0 |
| 70° | 0.0 | 0.0 | 5.1 | 10.1 | 15.2 | 25.3 | 40.5 | 60.8 | 81.1 | 116.5 |
| 72.5° | 0.0 | 0.0 | 5.1 | 10.1 | 10.1 | 30.4 | 30.4 | 45.6 | 60.8 | 76.0 |
| 75° | 0.0 | 0.0 | 5.1 | 5.1 | 10.1 | 20.3 | 30.4 | 35.5 | 40.5 | 60.8 |
| 77.5° | 0.0 | 0.0 | 5.1 | 10.1 | 15.2 | 20.3 | 25.3 | 40.5 | 35.5 | 35.5 |
| 80° | 0.0 | 0.0 | 5.1 | 15.2 | 15.2 | 25.3 | 30.4 | 40.5 | 25.3 | 25.3 |
| 82.5° | 0.0 | 0.0 | 5.1 | 20.3 | 15.2 | 50.7 | 50.7 | 55.7 | 20.3 | 20.3 |
| 85° | 0.0 | 0.0 | 15.2 | 10.1 | 30.4 | 50.7 | 45.6 | 30.4 | 25.3 | 15.2 |
| 87.5° | 0.0 | 0.0 | 5.1 | 5.1 | 10.1 | 15.2 | 35.5 | 30.4 | 10.1 | 10.1 |
| 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-760-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 14873.3 | 0° | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 | 14873.3 |
| 14782.2 | 2.5° | 14984.8 | 14918.9 | 15055.7 | 15040.5 | 14974.7 | 14944.3 | 14908.8 | 14878.4 | 14655.5 |
| 14792.3 | 5° | 14989.9 | 14888.5 | 15055.7 | 15025.3 | 15015.2 | 14964.5 | 14934.1 | 14979.7 | 14777.1 |
| 14832.8 | 7.5° | 14989.9 | 14888.5 | 15070.9 | 15081.0 | 15065.9 | 15025.3 | 15020.3 | 15050.7 | 14883.5 |
| 14903.7 | 10° | 15091.2 | 15050.7 | 15202.6 | 15217.8 | 15197.6 | 15187.4 | 15162.1 | 15141.8 | 14964.5 |
| 15146.9 | 12.5° | 15303.9 | 15222.9 | 15395.1 | 15440.7 | 15425.5 | 15450.9 | 15390.1 | 15420.5 | 15238.1 |
| 15395.1 | 15° | 15562.3 | 15567.4 | 15699.1 | 15800.4 | 15790.3 | 15871.3 | 15780.1 | 15861.2 | 15729.5 |
| 15678.8 | 17.5° | 15957.4 | 16013.2 | 16200.6 | 16352.6 | 16408.3 | 16469.1 | 16408.3 | 16433.6 | 16246.2 |
| 15364.7 | 20° | 15542.0 | 15749.7 | 16651.5 | 16930.1 | 17046.6 | 17102.3 | 17001.0 | 17031.4 | 16844.0 |
| 14979.7 | 22.5° | 15167.2 | 15435.7 | 16236.1 | 17107.4 | 17467.1 | 17578.5 | 17543.1 | 17538.0 | 17467.1 |
| 14219.9 | 25° | 14615.0 | 15157.0 | 15516.7 | 16438.7 | 17568.4 | 17771.0 | 17791.3 | 17786.2 | 17679.8 |
| 13753.8 | 27.5° | 13936.2 | 14057.7 | 14989.9 | 15552.2 | 16859.2 | 17629.2 | 17598.8 | 17451.9 | 17310.0 |
| 12786.2 | 30° | 13069.9 | 13622.1 | 14042.5 | 14939.2 | 15942.2 | 17193.5 | 17193.5 | 17082.1 | 16935.2 |
| 12441.7 | 32.5° | 12629.2 | 13343.5 | 13733.5 | 14057.7 | 14913.9 | 16707.2 | 16909.8 | 16793.3 | 16676.8 |
| 12173.2 | 35° | 12396.1 | 12502.5 | 13414.4 | 13708.2 | 14432.6 | 15770.0 | 16590.7 | 16474.2 | 16388.0 |
| 11459.0 | 37.5° | 11884.5 | 12132.7 | 12558.3 | 13343.5 | 13566.4 | 15005.1 | 16165.1 | 16104.4 | 16003.0 |
| 10531.9 | 40° | 10744.7 | 11408.3 | 12061.8 | 12806.5 | 13039.5 | 14022.3 | 15648.4 | 15673.8 | 15537.0 |
| 9544.1 | 42.5° | 10070.9 | 10521.8 | 11545.1 | 12046.6 | 12674.8 | 13389.1 | 15146.9 | 15187.4 | 15091.2 |
| 9042.6 | 45° | 9280.6 | 9782.2 | 10501.5 | 11413.4 | 12269.5 | 12517.7 | 14260.4 | 14685.9 | 14604.9 |
| 8044.6 | 47.5° | 8556.2 | 8961.5 | 9843.0 | 10764.9 | 11712.3 | 11676.8 | 13242.1 | 14042.5 | 13931.1 |
| 7279.6 | 50° | 7527.9 | 8237.1 | 8652.5 | 9498.5 | 10911.9 | 11008.1 | 12158.1 | 13287.7 | 13196.6 |
| 6185.4 | 52.5° | 6347.5 | 7239.1 | 8034.4 | 8809.5 | 10101.3 | 10329.3 | 11149.9 | 12517.7 | 12456.9 |
| 4726.4 | 55° | 5547.1 | 6195.5 | 7092.2 | 7715.3 | 9118.5 | 9726.4 | 10395.1 | 11783.2 | 11752.8 |
| 3885.5 | 57.5° | 3946.3 | 5197.6 | 5937.2 | 6808.5 | 7548.1 | 8647.4 | 9143.9 | 10288.8 | 10005.1 |
| 2153.0 | 60° | 2674.8 | 3262.4 | 4164.1 | 5101.3 | 5597.8 | 6697.1 | 7158.1 | 8075.0 | 7999.0 |
| 1286.7 | 62.5° | 1413.4 | 1955.4 | 2598.8 | 3069.9 | 3429.6 | 4498.5 | 4691.0 | 5678.8 | 5653.5 |
| 516.7 | 65° | 623.1 | 825.7 | 1408.3 | 1651.5 | 2021.3 | 2517.7 | 2684.9 | 3039.5 | 2953.4 |
| 253.3 | 67.5° | 324.2 | 491.4 | 795.3 | 977.7 | 1231.0 | 1418.4 | 1555.2 | 1666.7 | 1737.6 |
| 167.2 | 70° | 197.6 | 359.7 | 491.4 | 678.8 | 846.0 | 998.0 | 1104.4 | 1256.3 | 1347.5 |
| 86.1 | 72.5° | 146.9 | 228.0 | 339.4 | 521.8 | 613.0 | 790.3 | 896.7 | 1008.1 | 1089.2 |
| 70.9 | 75° | 81.1 | 152.0 | 273.6 | 410.3 | 491.4 | 643.4 | 739.6 | 815.6 | 840.9 |
| 40.5 | 77.5° | 50.7 | 116.5 | 228.0 | 319.1 | 385.0 | 521.8 | 496.5 | 567.4 | 628.2 |
| 30.4 | 80° | 35.5 | 86.1 | 177.3 | 263.4 | 268.5 | 334.3 | 395.1 | 455.9 | 496.5 |
| 20.3 | 82.5° | 25.3 | 70.9 | 131.7 | 202.6 | 177.3 | 258.4 | 309.0 | 354.6 | 258.4 |
| 15.2 | 85° | 20.3 | 50.7 | 65.9 | 121.6 | 101.3 | 182.4 | 157.0 | 152.0 | 101.3 |
| 10.1 | 87.5° | 15.2 | 25.3 | 45.6 | 55.7 | 40.5 | 40.5 | 50.7 | 60.8 | 50.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
14873.3
14503.5
14604.9
14691.0
14817.6
15076.0
15511.6
16084.1
16712.3
17239.1
17517.7
17198.6
16879.4
16580.5
16266.5
15901.7
15506.6
15081.0
14615.0
14012.2
13211.7
12497.5
11788.2
9974.7
8004.1
5658.6
2917.9
1737.6
1352.6
1104.4
825.7
638.3
501.5
187.4
101.3
50.7
0.0

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