

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: P636721

Luminaire Tested: **IFLD-S-SA6D-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636721
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22265.2 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

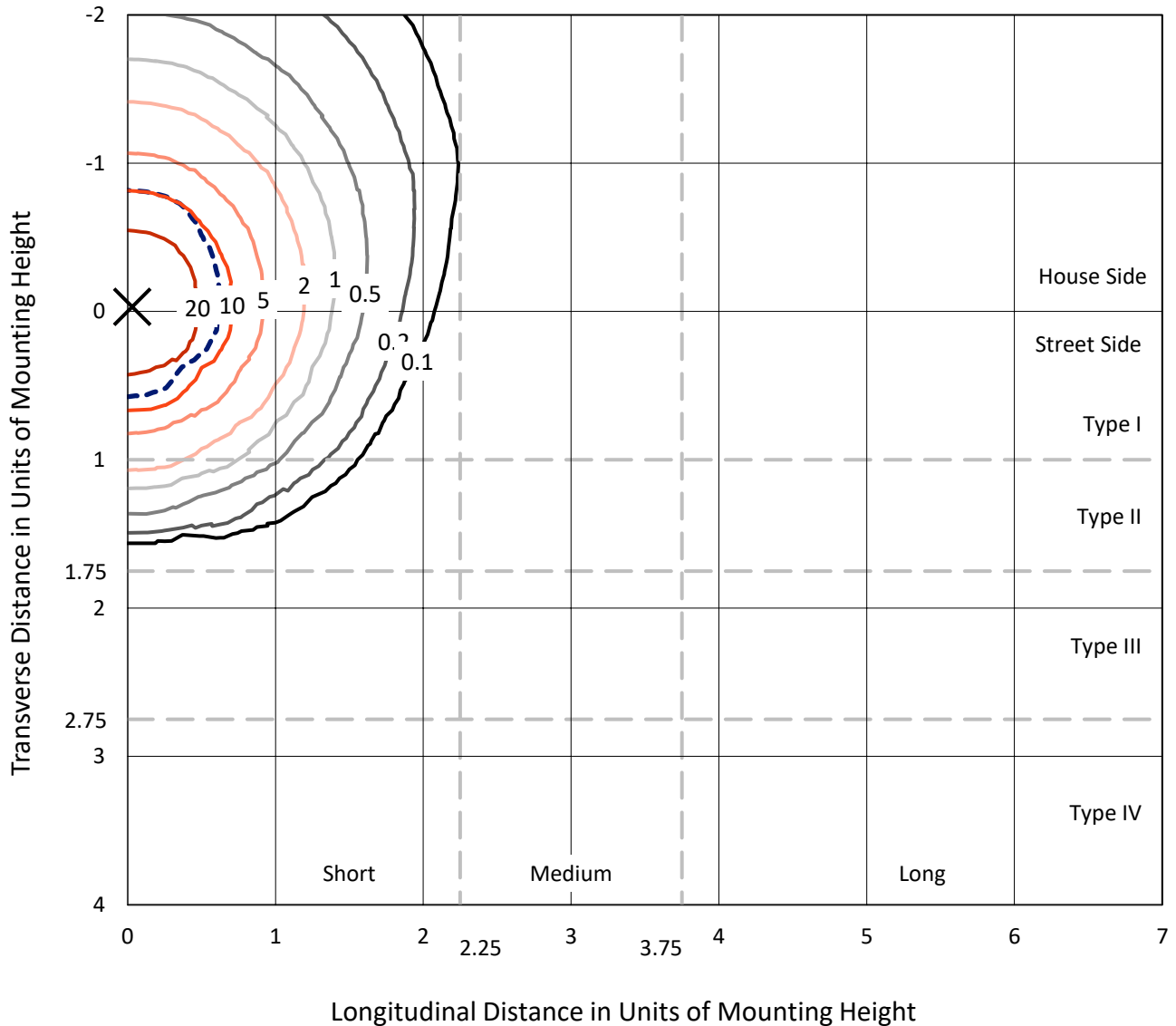
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

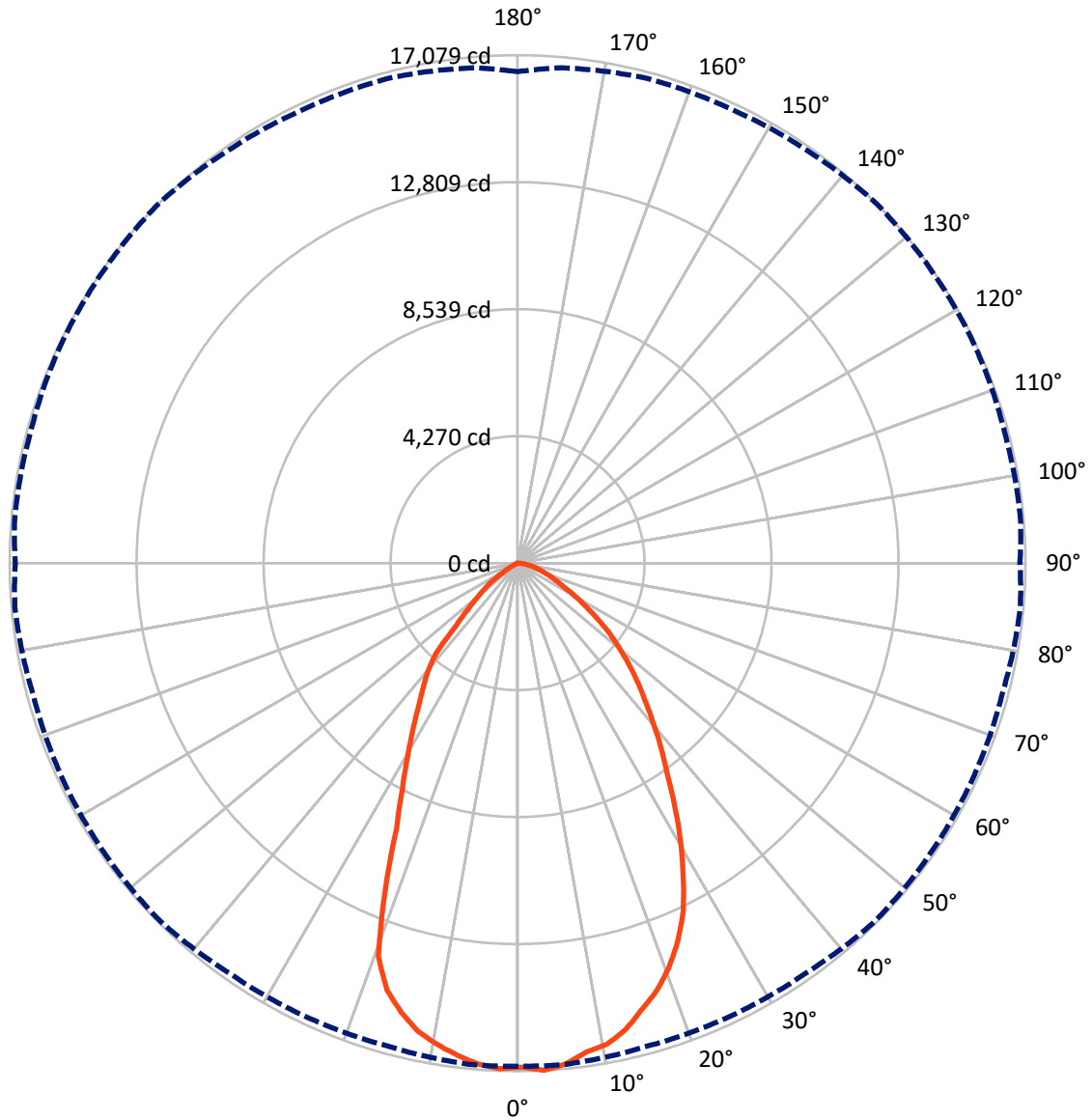
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.4 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 | 13186.6 | 0.0 | 13186.6 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 9078.6 | 0.0 | 9078.6 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 22265.2 | 0.0 | 22265.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1589.1 | 7.1 |
| 10°-20° | 4261.1 | 19.1 |
| 20°-30° | 5196.7 | 23.3 |
| 30°-40° | 4744.5 | 21.3 |
| 40°-50° | 3428.8 | 15.4 |
| 50°-60° | 1872.1 | 8.4 |
| 60°-70° | 774.1 | 3.5 |
| 70°-80° | 313.5 | 1.4 |
| 80°-90° | 85.3 | 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° | 22265.2 | 100.0 |
| 0°-180° | 22265.2 | 100.0 |



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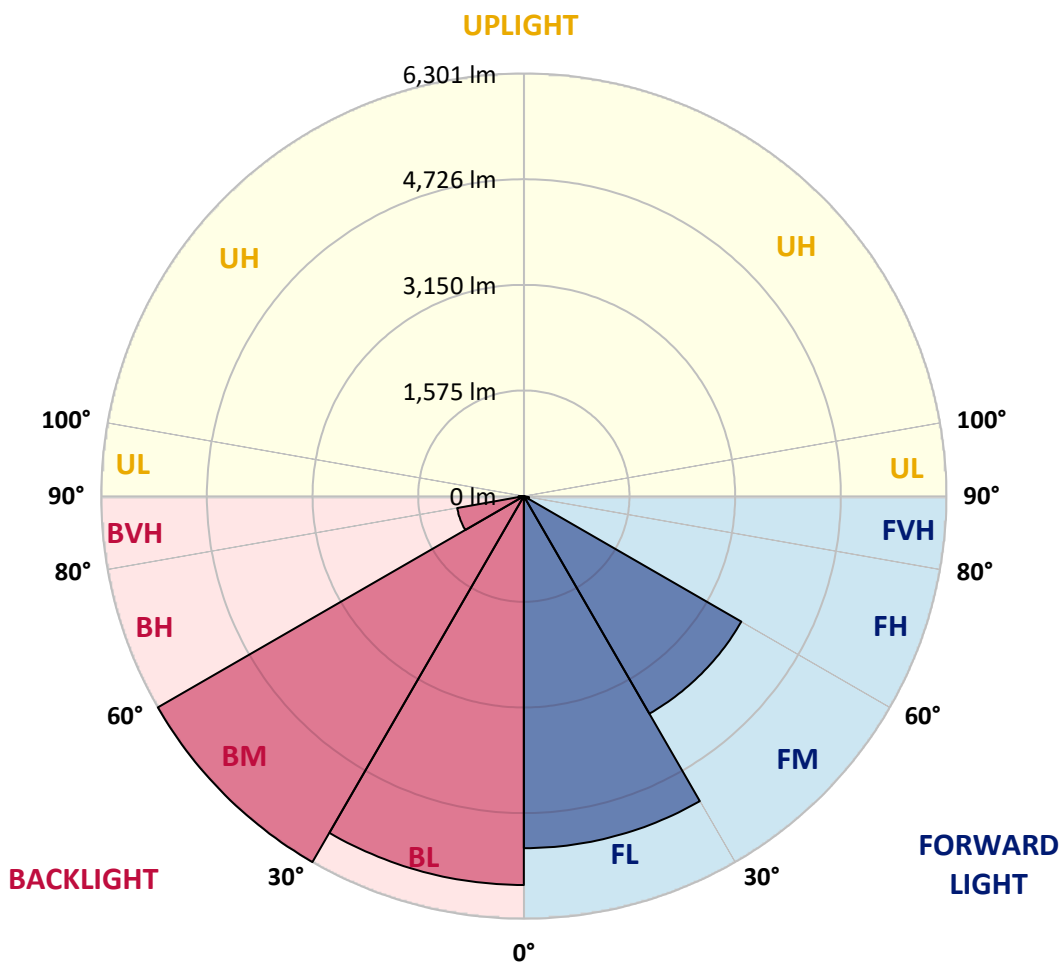
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5248.7 | 23.6 | | | |
| FM (30°-60°) | 3744.6 | 16.8 | | | |
| FH (60°-80°) | 78.4 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 6.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 5798.2 | 26.0 | B5 | | |
| BM (30°-60°) | 6300.9 | 28.3 | B4/8500 | | |
| BH (60°-80°) | 1009.1 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 78.4 | 0.4 | | | 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° | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 |
| 2.5° | 16912.4 | 16934.3 | 16815.2 | 16827.7 | 16849.7 | 17009.6 | 16968.8 | 16931.2 | 16877.9 | 16968.8 |
| 5° | 16890.4 | 16903.0 | 16777.6 | 16733.7 | 16752.5 | 16896.7 | 16765.0 | 16765.0 | 16752.5 | 16736.8 |
| 7.5° | 16721.1 | 16727.4 | 16630.2 | 16551.8 | 16602.0 | 16667.8 | 16570.6 | 16617.7 | 16548.7 | 16602.0 |
| 10° | 16467.2 | 16426.4 | 16310.4 | 16288.4 | 16344.9 | 16407.6 | 16341.7 | 16385.6 | 16322.9 | 16363.7 |
| 12.5° | 16094.0 | 16031.3 | 15937.3 | 15909.1 | 16006.3 | 16090.9 | 16037.6 | 16012.5 | 15931.0 | 16031.3 |
| 15° | 14654.9 | 14607.9 | 14821.1 | 15194.2 | 15529.7 | 15601.8 | 15545.3 | 15570.4 | 15401.1 | 15429.3 |
| 17.5° | 12061.9 | 11974.1 | 12203.0 | 13087.2 | 14347.6 | 15012.3 | 14962.2 | 14799.1 | 14548.3 | 14604.7 |
| 20° | 10961.4 | 10936.3 | 10911.2 | 11121.3 | 12002.3 | 14018.4 | 14087.4 | 13673.5 | 13316.1 | 13237.7 |
| 22.5° | 10340.6 | 10331.2 | 10306.1 | 10353.1 | 10585.1 | 11880.1 | 12670.2 | 12287.7 | 12049.4 | 12027.4 |
| 25° | 9773.1 | 9757.4 | 9682.1 | 9741.7 | 9741.7 | 9817.0 | 10829.7 | 11061.7 | 10851.6 | 10826.6 |
| 27.5° | 9196.1 | 9167.9 | 9155.4 | 9183.6 | 9039.4 | 8531.4 | 8788.5 | 9920.4 | 9810.7 | 9817.0 |
| 30° | 8572.2 | 8562.8 | 8528.3 | 8587.9 | 8142.7 | 7512.4 | 7349.4 | 8885.7 | 8907.7 | 8901.4 |
| 32.5° | 7644.1 | 7684.9 | 7841.7 | 7907.5 | 7173.8 | 6653.3 | 6380.6 | 7688.0 | 8136.4 | 8127.0 |
| 35° | 5552.8 | 5552.8 | 6063.9 | 7013.9 | 6286.5 | 5894.6 | 5747.2 | 6518.5 | 7374.5 | 7405.8 |
| 37.5° | 4565.2 | 4580.8 | 4681.2 | 5113.8 | 5424.3 | 5286.3 | 5242.4 | 5487.0 | 6396.2 | 6446.4 |
| 40° | 4107.4 | 4107.4 | 4107.4 | 3928.7 | 3919.3 | 4762.7 | 4737.6 | 4659.2 | 5524.6 | 5634.3 |
| 42.5° | 3690.4 | 3699.8 | 3706.1 | 3254.6 | 3003.7 | 4116.8 | 4060.4 | 3941.2 | 4743.9 | 4872.4 |
| 45° | 3260.8 | 3276.5 | 3295.3 | 2721.5 | 2611.8 | 2963.0 | 3436.4 | 3304.7 | 3972.6 | 4138.7 |
| 47.5° | 1991.0 | 2016.1 | 2442.5 | 2307.7 | 2320.2 | 2285.7 | 2803.1 | 2781.1 | 3257.7 | 3492.8 |
| 50° | 1345.1 | 1354.5 | 1395.3 | 1464.2 | 1991.0 | 1796.6 | 1984.7 | 2301.4 | 2473.8 | 2831.3 |
| 52.5° | 1128.7 | 1144.4 | 1044.1 | 950.0 | 1307.5 | 1404.7 | 1385.8 | 1708.8 | 1777.8 | 2219.9 |
| 55° | 793.3 | 843.4 | 796.4 | 787.0 | 743.1 | 1091.1 | 1050.4 | 1313.7 | 1357.6 | 1686.8 |
| 57.5° | 81.5 | 94.1 | 163.0 | 586.3 | 486.0 | 617.7 | 749.4 | 962.6 | 1006.5 | 1244.8 |
| 60° | 6.3 | 6.3 | 15.7 | 81.5 | 354.3 | 370.0 | 517.3 | 592.6 | 677.2 | 868.5 |
| 62.5° | 0.0 | 3.1 | 6.3 | 12.5 | 56.4 | 197.5 | 260.2 | 310.4 | 407.6 | 561.2 |
| 65° | 0.0 | 0.0 | 3.1 | 9.4 | 12.5 | 75.2 | 100.3 | 163.0 | 222.6 | 348.0 |
| 67.5° | 0.0 | 0.0 | 3.1 | 6.3 | 9.4 | 18.8 | 34.5 | 59.6 | 119.1 | 197.5 |
| 70° | 0.0 | 0.0 | 3.1 | 6.3 | 9.4 | 15.7 | 25.1 | 37.6 | 53.3 | 106.6 |
| 72.5° | 0.0 | 0.0 | 3.1 | 3.1 | 6.3 | 15.7 | 18.8 | 25.1 | 37.6 | 53.3 |
| 75° | 0.0 | 0.0 | 3.1 | 3.1 | 9.4 | 18.8 | 15.7 | 18.8 | 25.1 | 34.5 |
| 77.5° | 0.0 | 0.0 | 3.1 | 6.3 | 9.4 | 18.8 | 15.7 | 18.8 | 18.8 | 21.9 |
| 80° | 0.0 | 0.0 | 3.1 | 6.3 | 12.5 | 21.9 | 18.8 | 18.8 | 15.7 | 15.7 |
| 82.5° | 0.0 | 0.0 | 3.1 | 9.4 | 12.5 | 28.2 | 28.2 | 25.1 | 12.5 | 9.4 |
| 85° | 0.0 | 0.0 | 6.3 | 12.5 | 18.8 | 31.4 | 31.4 | 25.1 | 9.4 | 6.3 |
| 87.5° | 0.0 | 0.0 | 6.3 | 9.4 | 15.7 | 21.9 | 31.4 | 25.1 | 9.4 | 3.1 |
| 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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CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 16943.7 | 0° | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 | 16943.7 |
| 16890.4 | 2.5° | 16975.1 | 16956.3 | 17019.0 | 17044.1 | 17078.6 | 16946.9 | 16865.4 | 16868.5 | 16718.0 |
| 16699.2 | 5° | 16799.5 | 16802.6 | 16884.2 | 16877.9 | 16912.4 | 16840.3 | 16808.9 | 16755.6 | 16623.9 |
| 16457.8 | 7.5° | 16576.9 | 16548.7 | 16627.1 | 16686.6 | 16598.8 | 16649.0 | 16576.9 | 16602.0 | 16523.6 |
| 16244.5 | 10° | 16404.5 | 16338.6 | 16410.7 | 16451.5 | 16454.6 | 16404.5 | 16335.5 | 16269.6 | 16241.4 |
| 15912.2 | 12.5° | 16021.9 | 15937.3 | 16059.6 | 16116.0 | 16106.6 | 16009.4 | 15931.0 | 15946.7 | 15855.8 |
| 15329.0 | 15° | 15495.2 | 15498.3 | 15586.1 | 15639.4 | 15589.2 | 15567.3 | 15573.6 | 15535.9 | 15457.6 |
| 14523.2 | 17.5° | 14689.4 | 14736.4 | 14968.4 | 15097.0 | 15125.2 | 15081.3 | 15059.4 | 15015.5 | 14937.1 |
| 13237.7 | 20° | 13347.4 | 13629.6 | 14043.5 | 14441.7 | 14520.1 | 14507.5 | 14429.1 | 14410.3 | 14366.4 |
| 11964.7 | 22.5° | 12168.5 | 12378.6 | 12858.3 | 13479.1 | 13798.9 | 13830.3 | 13736.2 | 13708.0 | 13661.0 |
| 10826.6 | 25° | 10948.8 | 11174.6 | 11607.3 | 12281.4 | 12943.0 | 13077.8 | 13062.1 | 12977.5 | 12927.3 |
| 9817.0 | 27.5° | 9920.4 | 10146.2 | 10538.1 | 11146.4 | 11855.0 | 12287.7 | 12328.4 | 12193.6 | 12190.5 |
| 8917.1 | 30° | 8992.3 | 9302.8 | 9600.6 | 10096.0 | 10782.7 | 11431.7 | 11500.7 | 11406.6 | 11416.0 |
| 8092.5 | 32.5° | 8264.9 | 8522.0 | 8776.0 | 9108.4 | 9679.0 | 10434.6 | 10704.3 | 10616.5 | 10582.0 |
| 7405.8 | 35° | 7521.8 | 7697.4 | 7957.7 | 8261.8 | 8650.6 | 9400.0 | 9867.1 | 9801.3 | 9766.8 |
| 6477.8 | 37.5° | 6675.3 | 6976.3 | 7164.4 | 7506.2 | 7810.3 | 8406.0 | 9064.5 | 9055.1 | 8982.9 |
| 5687.6 | 40° | 5806.8 | 6123.5 | 6408.8 | 6753.7 | 6988.8 | 7462.3 | 8192.8 | 8189.7 | 8199.1 |
| 4869.3 | 42.5° | 5019.8 | 5311.4 | 5656.3 | 6032.5 | 6258.3 | 6603.2 | 7387.0 | 7430.9 | 7484.2 |
| 4195.2 | 45° | 4308.0 | 4571.4 | 4891.2 | 5349.0 | 5621.8 | 5819.3 | 6515.4 | 6716.0 | 6712.9 |
| 3593.2 | 47.5° | 3668.4 | 3916.1 | 4185.8 | 4631.0 | 4979.0 | 5157.7 | 5734.7 | 6020.0 | 6001.2 |
| 2947.3 | 50° | 3079.0 | 3298.4 | 3580.6 | 3903.6 | 4370.8 | 4527.5 | 4957.1 | 5333.3 | 5305.1 |
| 2348.4 | 52.5° | 2477.0 | 2781.1 | 3019.4 | 3314.1 | 3806.4 | 3960.0 | 4292.4 | 4659.2 | 4637.3 |
| 1762.1 | 55° | 1931.4 | 2226.1 | 2514.6 | 2768.6 | 3182.4 | 3411.3 | 3649.6 | 4025.9 | 4019.6 |
| 1379.6 | 57.5° | 1461.1 | 1784.0 | 2056.8 | 2298.3 | 2627.5 | 2909.7 | 3100.9 | 3442.7 | 3486.6 |
| 943.8 | 60° | 1081.7 | 1329.4 | 1624.1 | 1893.8 | 2154.0 | 2445.6 | 2574.2 | 2909.7 | 2928.5 |
| 645.9 | 62.5° | 736.8 | 1009.6 | 1298.1 | 1542.6 | 1737.0 | 2038.0 | 2154.0 | 2429.9 | 2464.4 |
| 413.9 | 65° | 511.1 | 686.7 | 1015.9 | 1191.5 | 1429.7 | 1686.8 | 1802.9 | 2022.3 | 2091.3 |
| 238.3 | 67.5° | 338.6 | 489.1 | 793.3 | 953.2 | 1188.3 | 1363.9 | 1511.3 | 1690.0 | 1765.2 |
| 150.5 | 70° | 185.0 | 360.6 | 567.5 | 752.5 | 956.3 | 1125.6 | 1269.8 | 1414.1 | 1479.9 |
| 69.0 | 72.5° | 125.4 | 241.4 | 395.1 | 595.7 | 771.3 | 937.5 | 1066.0 | 1172.6 | 1175.8 |
| 40.8 | 75° | 62.7 | 163.0 | 301.0 | 460.9 | 602.0 | 765.0 | 881.0 | 943.8 | 868.5 |
| 25.1 | 77.5° | 37.6 | 119.1 | 244.6 | 370.0 | 489.1 | 617.7 | 683.5 | 718.0 | 595.7 |
| 18.8 | 80° | 21.9 | 84.7 | 191.3 | 294.7 | 338.6 | 454.6 | 517.3 | 526.7 | 398.2 |
| 12.5 | 82.5° | 15.7 | 62.7 | 150.5 | 216.3 | 206.9 | 319.8 | 388.8 | 376.2 | 254.0 |
| 9.4 | 85° | 9.4 | 43.9 | 94.1 | 134.8 | 125.4 | 210.1 | 225.7 | 232.0 | 147.4 |
| 6.3 | 87.5° | 6.3 | 25.1 | 50.2 | 72.1 | 59.6 | 90.9 | 90.9 | 109.7 | 72.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
16943.7
16523.6
16592.6
16391.9
16116.0
15777.4
15379.2
14902.6
14266.1
13648.4
12874.0
12184.2
11369.0
10585.1
9719.8
9042.5
8199.1
7456.0
6719.2
6007.4
5330.2
4684.3
4035.3
3467.8
2956.7
2470.7
2075.6
1755.8
1454.8
1147.6
812.1
573.8
373.1
235.2
134.8
62.7
0.0

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