

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: P638336

Luminaire Tested: **IFLD-S-SA2E-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638336
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11156.2 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

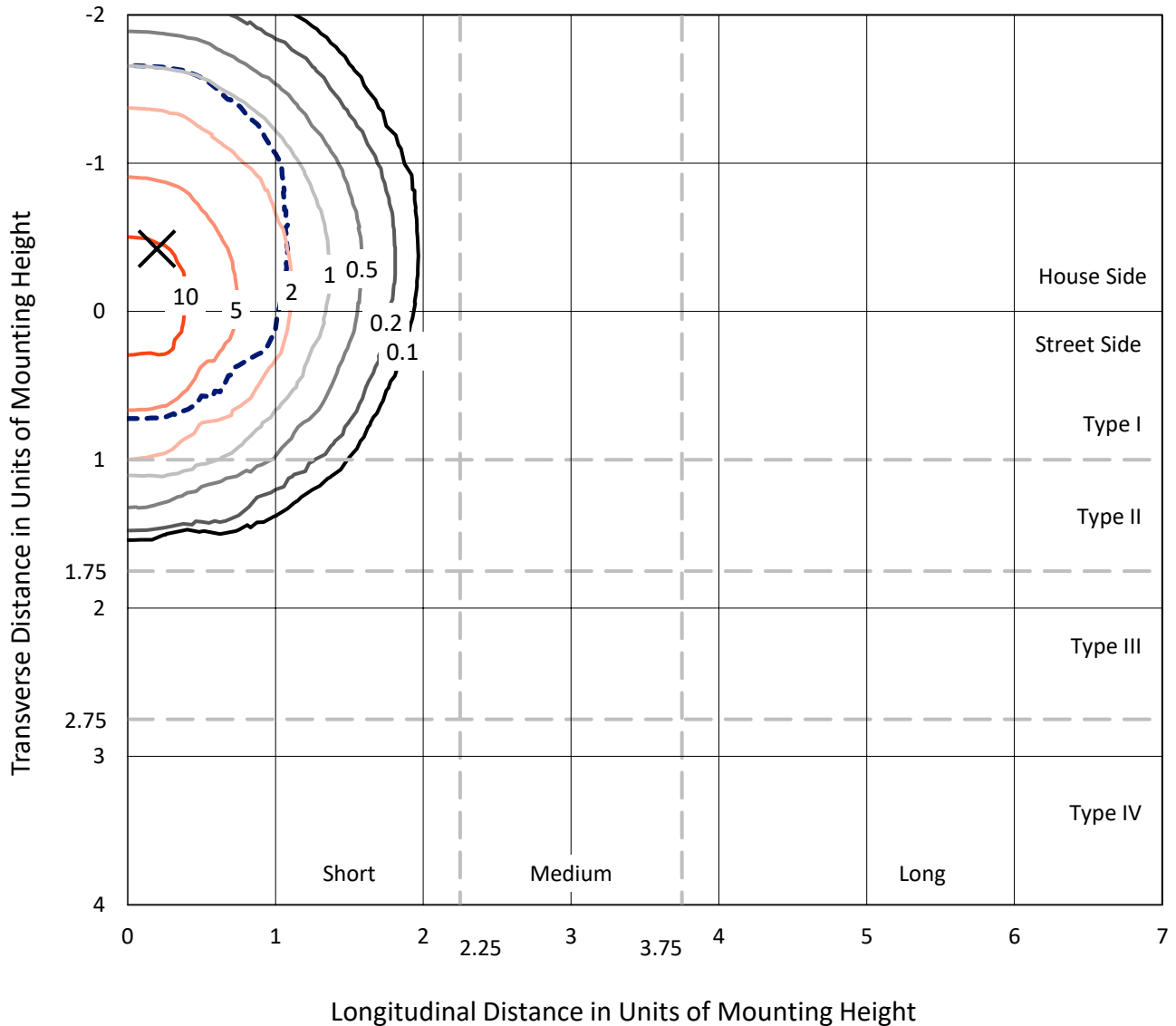
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

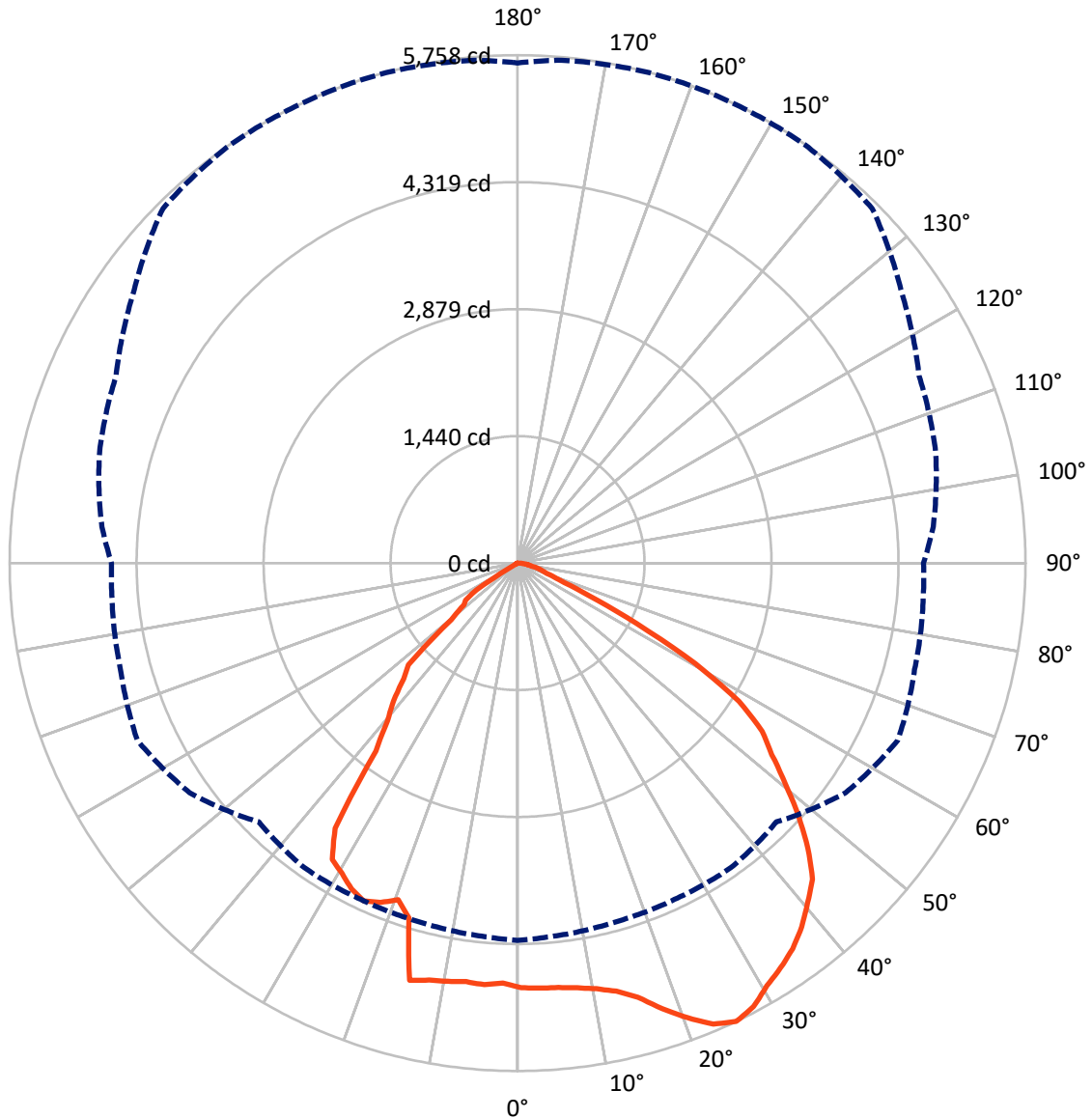
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12 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 | 6906.8 | 0.0 | 6906.8 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 4249.3 | 0.0 | 4249.3 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 11156.2 | 0.0 | 11156.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 461.8 | 4.1 |
| 10°-20° | 1410.1 | 12.6 |
| 20°-30° | 2229.3 | 20.0 |
| 30°-40° | 2518.2 | 22.6 |
| 40°-50° | 2358.3 | 21.1 |
| 50°-60° | 1625.9 | 14.6 |
| 60°-70° | 436.8 | 3.9 |
| 70°-80° | 91.0 | 0.8 |
| 80°-90° | 24.6 | 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° | 11156.2 | 100.0 |
| 0°-180° | 11156.2 | 100.0 |



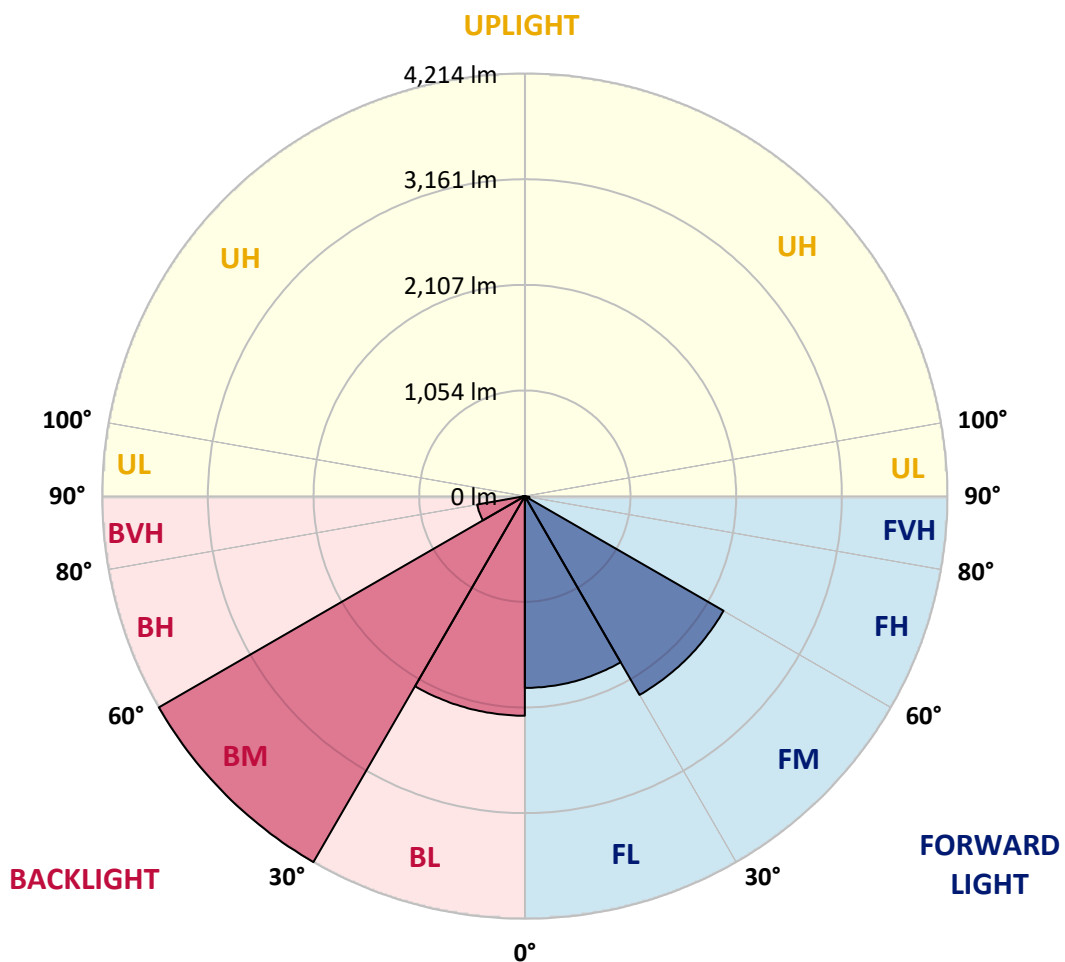
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1911.8 | 17.1 | | | |
| FM (30°-60°) | 2288.4 | 20.5 | | | |
| FH (60°-80°) | 45.9 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2189.4 | 19.6 | B3/2500 | | |
| BM (30°-60°) | 4214.1 | 37.8 | B3/5000 | | |
| BH (60°-80°) | 482.0 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 21.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 |
| 2.5° | 4835.0 | 4803.8 | 4774.3 | 4764.5 | 4805.5 | 4849.8 | 4821.9 | 4823.5 | 4813.7 | 4831.7 |
| 5° | 4871.1 | 4828.4 | 4808.8 | 4794.0 | 4800.6 | 4846.5 | 4807.1 | 4821.9 | 4805.5 | 4826.8 |
| 7.5° | 4857.9 | 4828.4 | 4808.8 | 4780.9 | 4802.2 | 4856.3 | 4818.6 | 4820.2 | 4812.0 | 4831.7 |
| 10° | 4849.8 | 4828.4 | 4803.8 | 4807.1 | 4831.7 | 4877.6 | 4848.1 | 4864.5 | 4853.0 | 4864.5 |
| 12.5° | 4869.4 | 4846.5 | 4833.4 | 4833.4 | 4854.7 | 4907.1 | 4892.4 | 4907.1 | 4902.2 | 4912.1 |
| 15° | 4684.2 | 4705.5 | 4830.1 | 4885.8 | 4928.4 | 4980.9 | 4974.4 | 4989.1 | 4992.4 | 5007.1 |
| 17.5° | 3951.3 | 3930.0 | 3920.1 | 4207.1 | 4969.4 | 5131.8 | 5126.8 | 5125.2 | 5108.8 | 5097.3 |
| 20° | 4048.0 | 4039.8 | 4028.3 | 4049.7 | 4134.9 | 5210.5 | 5243.2 | 5041.6 | 4982.6 | 4977.6 |
| 22.5° | 4202.1 | 4189.0 | 4146.4 | 4148.0 | 4174.3 | 4530.0 | 5080.9 | 4897.3 | 4877.6 | 4866.1 |
| 25° | 4277.6 | 4251.3 | 4216.9 | 4207.1 | 4215.3 | 4149.7 | 4538.2 | 4756.3 | 4659.6 | 4615.3 |
| 27.5° | 4144.8 | 4146.4 | 4118.5 | 4144.8 | 4113.6 | 3818.5 | 3652.9 | 4480.9 | 4477.6 | 4457.9 |
| 30° | 4044.7 | 4039.8 | 4007.0 | 4039.8 | 3825.0 | 3495.5 | 3425.0 | 4179.2 | 4144.8 | 4118.5 |
| 32.5° | 3738.1 | 3741.4 | 3836.5 | 3964.4 | 3611.9 | 3351.2 | 3138.1 | 3733.2 | 4059.5 | 4044.7 |
| 35° | 2674.1 | 2680.6 | 3018.4 | 3649.6 | 3288.9 | 3064.3 | 3047.9 | 3226.6 | 3925.1 | 3931.6 |
| 37.5° | 2574.1 | 2574.1 | 2565.9 | 2669.2 | 3034.8 | 2947.9 | 2980.7 | 2962.6 | 3595.5 | 3611.9 |
| 40° | 2501.9 | 2487.2 | 2475.7 | 2313.4 | 2110.1 | 2865.9 | 2888.9 | 2806.9 | 3398.8 | 3402.0 |
| 42.5° | 2415.0 | 2398.6 | 2401.9 | 2101.9 | 1888.7 | 2662.6 | 2598.7 | 2488.8 | 3070.9 | 3074.1 |
| 45° | 2256.0 | 2283.9 | 2303.6 | 1839.6 | 1823.2 | 1901.9 | 2397.0 | 2328.1 | 2849.5 | 2910.2 |
| 47.5° | 1147.7 | 1172.3 | 1798.6 | 1692.0 | 1729.7 | 1690.4 | 2024.8 | 2026.5 | 2370.8 | 2572.4 |
| 50° | 1041.1 | 1034.5 | 1036.2 | 987.0 | 1596.9 | 1367.4 | 1464.1 | 1857.6 | 1898.6 | 2187.1 |
| 52.5° | 970.6 | 969.0 | 869.0 | 772.2 | 1003.4 | 1203.4 | 1062.4 | 1344.4 | 1411.6 | 1852.7 |
| 55° | 718.1 | 770.6 | 685.3 | 726.3 | 627.9 | 964.0 | 959.1 | 1213.3 | 1236.2 | 1485.4 |
| 57.5° | 6.6 | 8.2 | 19.7 | 552.5 | 434.5 | 482.0 | 662.4 | 828.0 | 869.0 | 1157.5 |
| 60° | 1.6 | 3.3 | 8.2 | 16.4 | 282.0 | 296.8 | 442.7 | 478.7 | 539.4 | 690.2 |
| 62.5° | 0.0 | 0.0 | 3.3 | 8.2 | 14.8 | 121.3 | 141.0 | 154.1 | 237.7 | 352.5 |
| 65° | 0.0 | 0.0 | 1.6 | 4.9 | 8.2 | 19.7 | 34.4 | 72.1 | 103.3 | 127.9 |
| 67.5° | 0.0 | 0.0 | 1.6 | 3.3 | 6.6 | 9.8 | 19.7 | 27.9 | 44.3 | 75.4 |
| 70° | 0.0 | 0.0 | 1.6 | 3.3 | 4.9 | 8.2 | 13.1 | 19.7 | 26.2 | 37.7 |
| 72.5° | 0.0 | 0.0 | 1.6 | 3.3 | 3.3 | 9.8 | 9.8 | 14.8 | 19.7 | 24.6 |
| 75° | 0.0 | 0.0 | 1.6 | 1.6 | 3.3 | 6.6 | 9.8 | 11.5 | 13.1 | 19.7 |
| 77.5° | 0.0 | 0.0 | 1.6 | 3.3 | 4.9 | 6.6 | 8.2 | 13.1 | 11.5 | 11.5 |
| 80° | 0.0 | 0.0 | 1.6 | 4.9 | 4.9 | 8.2 | 9.8 | 13.1 | 8.2 | 8.2 |
| 82.5° | 0.0 | 0.0 | 1.6 | 6.6 | 4.9 | 16.4 | 16.4 | 18.0 | 6.6 | 6.6 |
| 85° | 0.0 | 0.0 | 4.9 | 3.3 | 9.8 | 16.4 | 14.8 | 9.8 | 8.2 | 4.9 |
| 87.5° | 0.0 | 0.0 | 1.6 | 1.6 | 3.3 | 4.9 | 11.5 | 9.8 | 3.3 | 3.3 |
| 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-SA2E-727-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4813.7 | 0° | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 | 4813.7 |
| 4784.2 | 2.5° | 4849.8 | 4828.4 | 4872.7 | 4867.8 | 4846.5 | 4836.6 | 4825.2 | 4815.3 | 4743.2 |
| 4787.4 | 5° | 4851.4 | 4818.6 | 4872.7 | 4862.9 | 4859.6 | 4843.2 | 4833.4 | 4848.1 | 4782.5 |
| 4800.6 | 7.5° | 4851.4 | 4818.6 | 4877.6 | 4880.9 | 4876.0 | 4862.9 | 4861.2 | 4871.1 | 4817.0 |
| 4823.5 | 10° | 4884.2 | 4871.1 | 4920.3 | 4925.2 | 4918.6 | 4915.3 | 4907.1 | 4900.6 | 4843.2 |
| 4902.2 | 12.5° | 4953.0 | 4926.8 | 4982.6 | 4997.3 | 4992.4 | 5000.6 | 4980.9 | 4990.8 | 4931.7 |
| 4982.6 | 15° | 5036.7 | 5038.3 | 5080.9 | 5113.7 | 5110.4 | 5136.7 | 5107.2 | 5133.4 | 5090.8 |
| 5074.4 | 17.5° | 5164.5 | 5182.6 | 5243.2 | 5292.4 | 5310.5 | 5330.1 | 5310.5 | 5318.7 | 5258.0 |
| 4972.7 | 20° | 5030.1 | 5097.3 | 5389.2 | 5479.3 | 5517.0 | 5535.1 | 5502.3 | 5512.1 | 5451.5 |
| 4848.1 | 22.5° | 4908.8 | 4995.7 | 5254.7 | 5536.7 | 5653.1 | 5689.2 | 5677.7 | 5676.1 | 5653.1 |
| 4602.2 | 25° | 4730.1 | 4905.5 | 5021.9 | 5320.3 | 5685.9 | 5751.5 | 5758.1 | 5756.4 | 5722.0 |
| 4451.3 | 27.5° | 4510.4 | 4549.7 | 4851.4 | 5033.4 | 5456.4 | 5705.6 | 5695.8 | 5648.2 | 5602.3 |
| 4138.2 | 30° | 4230.0 | 4408.7 | 4544.8 | 4835.0 | 5159.6 | 5564.6 | 5564.6 | 5528.5 | 5481.0 |
| 4026.7 | 32.5° | 4087.4 | 4318.5 | 4444.8 | 4549.7 | 4826.8 | 5407.2 | 5472.8 | 5435.1 | 5397.4 |
| 3939.8 | 35° | 4011.9 | 4046.4 | 4341.5 | 4436.6 | 4671.0 | 5103.9 | 5369.5 | 5331.8 | 5303.9 |
| 3708.6 | 37.5° | 3846.4 | 3926.7 | 4064.4 | 4318.5 | 4390.7 | 4856.3 | 5231.8 | 5212.1 | 5179.3 |
| 3408.6 | 40° | 3477.5 | 3692.2 | 3903.7 | 4144.8 | 4220.2 | 4538.2 | 5064.5 | 5072.7 | 5028.5 |
| 3088.9 | 42.5° | 3259.4 | 3405.3 | 3736.5 | 3898.8 | 4102.1 | 4333.3 | 4902.2 | 4915.3 | 4884.2 |
| 2926.6 | 45° | 3003.6 | 3165.9 | 3398.8 | 3693.9 | 3971.0 | 4051.3 | 4615.3 | 4753.0 | 4726.8 |
| 2603.6 | 47.5° | 2769.2 | 2900.3 | 3185.6 | 3484.0 | 3790.6 | 3779.1 | 4285.8 | 4544.8 | 4508.7 |
| 2356.0 | 50° | 2436.4 | 2665.9 | 2800.3 | 3074.1 | 3531.6 | 3562.7 | 3934.9 | 4300.5 | 4271.0 |
| 2001.9 | 52.5° | 2054.3 | 2342.9 | 2600.3 | 2851.2 | 3269.2 | 3343.0 | 3608.6 | 4051.3 | 4031.6 |
| 1529.7 | 55° | 1795.3 | 2005.2 | 2295.4 | 2497.0 | 2951.2 | 3147.9 | 3364.3 | 3813.6 | 3803.7 |
| 1257.5 | 57.5° | 1277.2 | 1682.2 | 1921.5 | 2203.5 | 2442.9 | 2798.7 | 2959.4 | 3329.9 | 3238.1 |
| 696.8 | 60° | 865.7 | 1055.9 | 1347.7 | 1651.0 | 1811.7 | 2167.5 | 2316.7 | 2613.4 | 2588.8 |
| 416.4 | 62.5° | 457.4 | 632.9 | 841.1 | 993.6 | 1110.0 | 1455.9 | 1518.2 | 1837.9 | 1829.7 |
| 167.2 | 65° | 201.7 | 267.2 | 455.8 | 534.5 | 654.2 | 814.9 | 869.0 | 983.7 | 955.9 |
| 82.0 | 67.5° | 104.9 | 159.0 | 257.4 | 316.4 | 398.4 | 459.1 | 503.3 | 539.4 | 562.4 |
| 54.1 | 70° | 63.9 | 116.4 | 159.0 | 219.7 | 273.8 | 323.0 | 357.4 | 406.6 | 436.1 |
| 27.9 | 72.5° | 47.5 | 73.8 | 109.8 | 168.9 | 198.4 | 255.8 | 290.2 | 326.3 | 352.5 |
| 23.0 | 75° | 26.2 | 49.2 | 88.5 | 132.8 | 159.0 | 208.2 | 239.4 | 264.0 | 272.2 |
| 13.1 | 77.5° | 16.4 | 37.7 | 73.8 | 103.3 | 124.6 | 168.9 | 160.7 | 183.6 | 203.3 |
| 9.8 | 80° | 11.5 | 27.9 | 57.4 | 85.3 | 86.9 | 108.2 | 127.9 | 147.6 | 160.7 |
| 6.6 | 82.5° | 8.2 | 23.0 | 42.6 | 65.6 | 57.4 | 83.6 | 100.0 | 114.8 | 83.6 |
| 4.9 | 85° | 6.6 | 16.4 | 21.3 | 39.3 | 32.8 | 59.0 | 50.8 | 49.2 | 32.8 |
| 3.3 | 87.5° | 4.9 | 8.2 | 14.8 | 18.0 | 13.1 | 13.1 | 16.4 | 19.7 | 16.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
4813.7
4694.0
4726.8
4754.7
4795.6
4879.3
5020.3
5205.5
5408.8
5579.3
5669.5
5566.2
5462.9
5366.2
5264.6
5146.5
5018.6
4880.9
4730.1
4535.0
4275.9
4044.7
3815.2
3228.2
2590.5
1831.4
944.4
562.4
437.8
357.4
267.2
206.6
162.3
60.7
32.8
16.4
0.0

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