

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: P638434

Luminaire Tested: **IFLD-M-SA4A-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638434
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13611.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

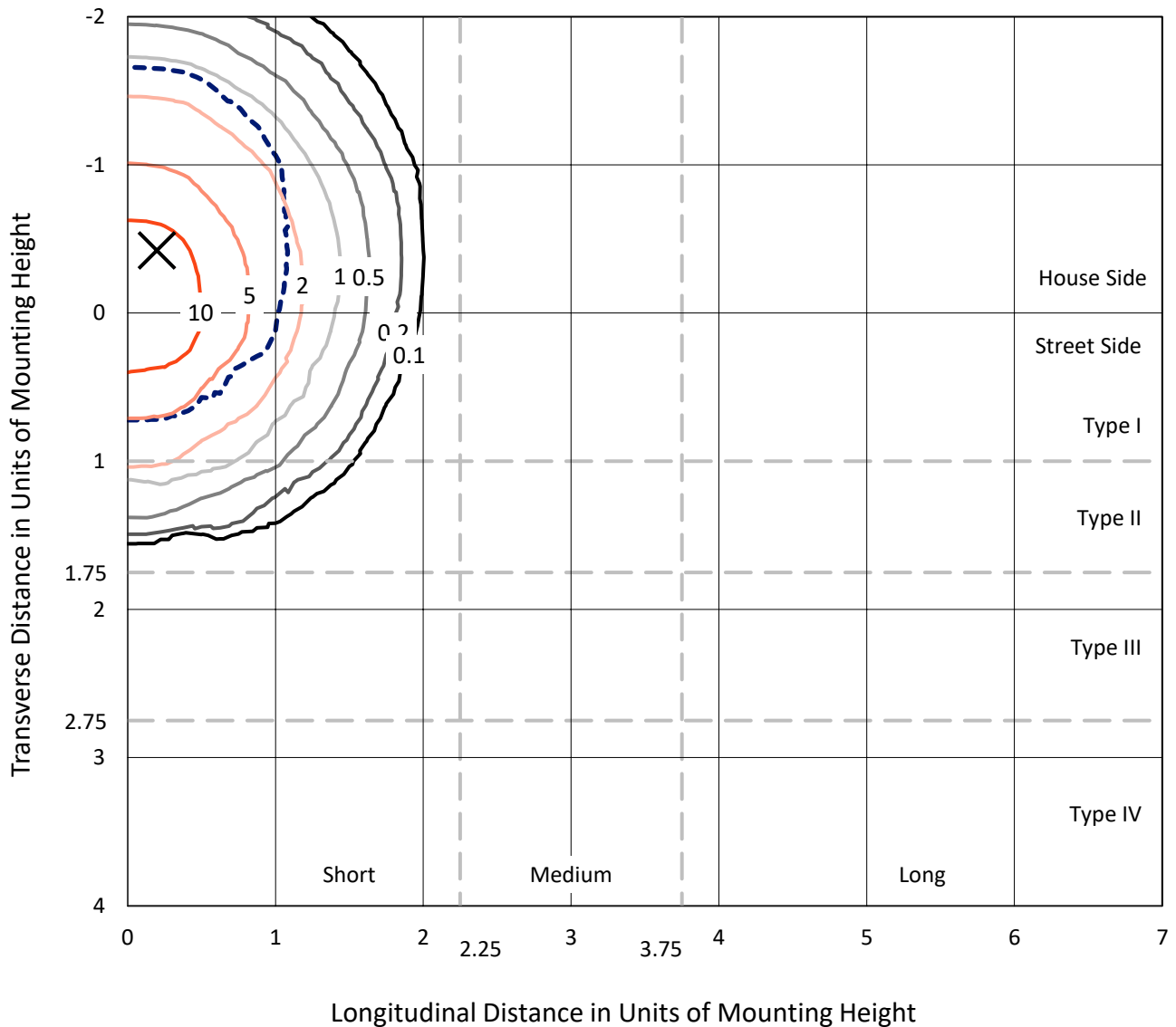
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

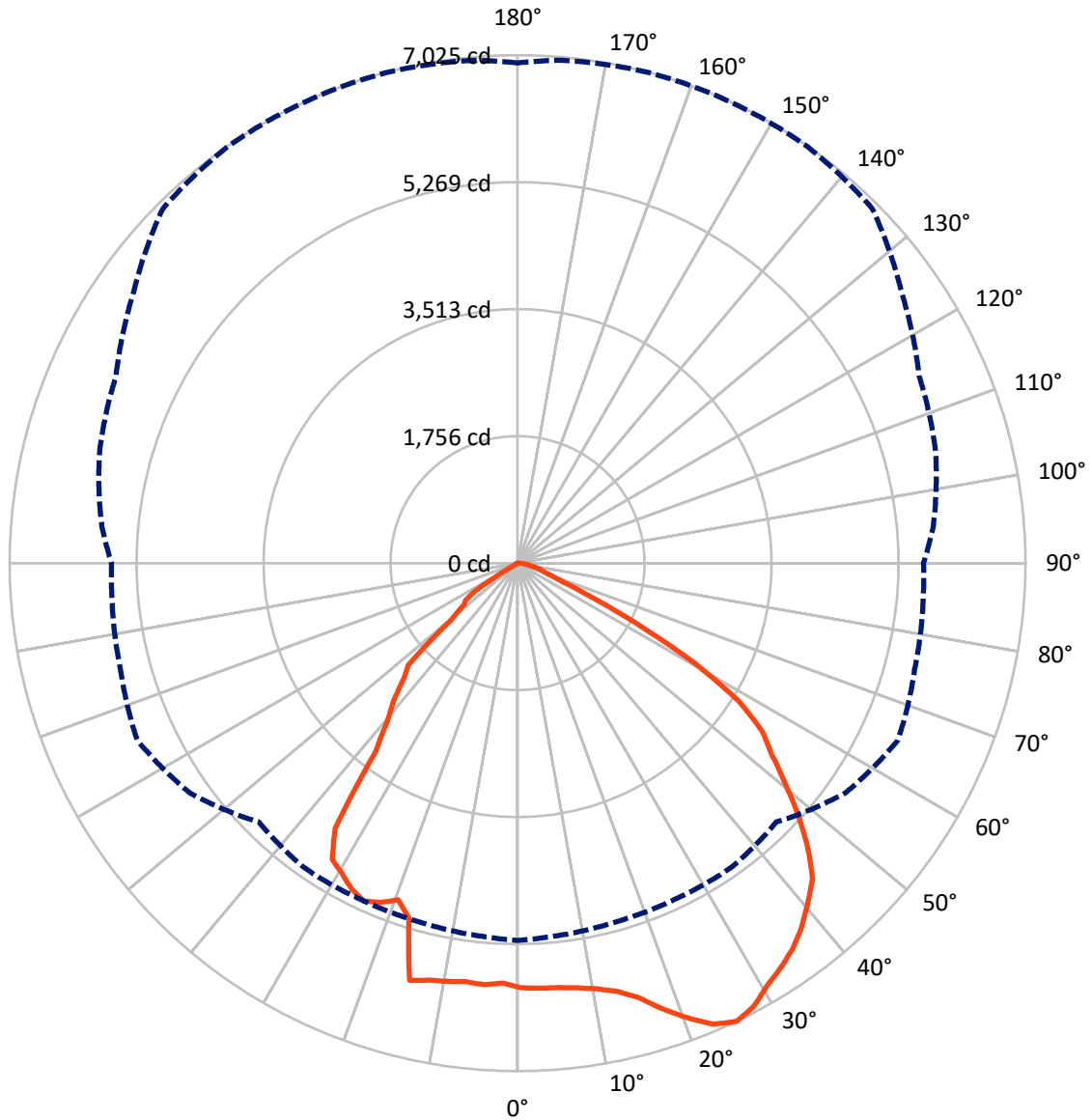
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.7 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 | 8426.7 | 0.0 | 8426.7 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 5184.4 | 0.0 | 5184.4 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 13611.1 | 0.0 | 13611.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 563.4 | 4.1 |
| 10°-20° | 1720.4 | 12.6 |
| 20°-30° | 2719.9 | 20.0 |
| 30°-40° | 3072.3 | 22.6 |
| 40°-50° | 2877.3 | 21.1 |
| 50°-60° | 1983.7 | 14.6 |
| 60°-70° | 533.0 | 3.9 |
| 70°-80° | 111.1 | 0.8 |
| 80°-90° | 30.0 | 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° | 13611.1 | 100.0 |
| 0°-180° | 13611.1 | 100.0 |

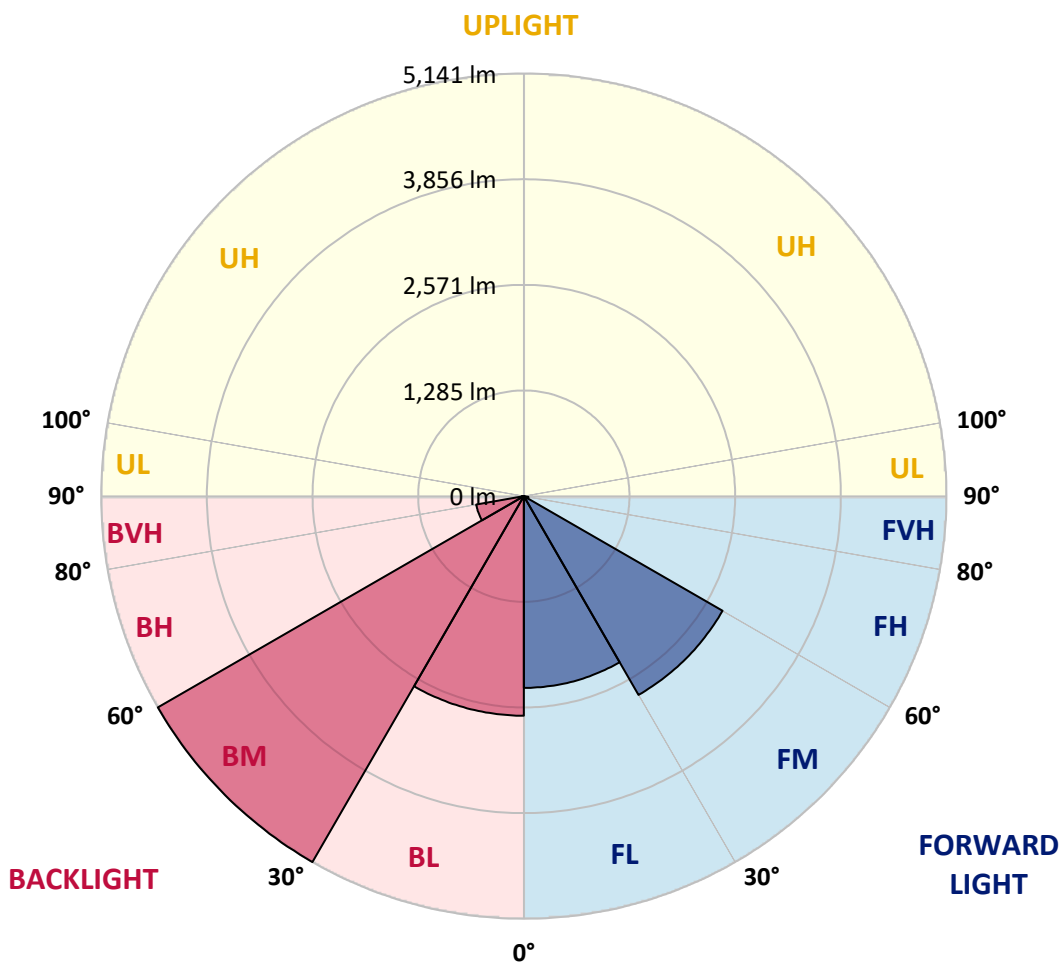


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2332.5 | 17.1 | | | |
| FM (30°-60°) | 2791.9 | 20.5 | | | |
| FH (60°-80°) | 55.9 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2671.2 | 19.6 | B4/5000 | | |
| BM (30°-60°) | 5141.4 | 37.8 | B4/8500 | | |
| BH (60°-80°) | 588.1 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 26.0 | 0.2 | | | 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° | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 |
| 2.5° | 5899.0 | 5861.0 | 5825.0 | 5812.9 | 5863.0 | 5917.0 | 5883.0 | 5885.0 | 5873.0 | 5895.0 |
| 5° | 5943.0 | 5891.0 | 5867.0 | 5849.0 | 5857.0 | 5913.0 | 5865.0 | 5883.0 | 5863.0 | 5889.0 |
| 7.5° | 5927.0 | 5891.0 | 5867.0 | 5833.0 | 5859.0 | 5925.0 | 5879.0 | 5881.0 | 5871.0 | 5895.0 |
| 10° | 5917.0 | 5891.0 | 5861.0 | 5865.0 | 5895.0 | 5951.0 | 5915.0 | 5935.0 | 5921.0 | 5935.0 |
| 12.5° | 5941.0 | 5913.0 | 5897.0 | 5897.0 | 5923.0 | 5987.0 | 5969.0 | 5987.0 | 5981.0 | 5993.0 |
| 15° | 5714.9 | 5740.9 | 5893.0 | 5961.0 | 6013.0 | 6077.0 | 6069.0 | 6087.0 | 6091.0 | 6109.0 |
| 17.5° | 4820.8 | 4794.8 | 4782.8 | 5132.8 | 6063.0 | 6261.0 | 6255.0 | 6253.0 | 6233.0 | 6219.0 |
| 20° | 4938.8 | 4928.8 | 4914.8 | 4940.8 | 5044.8 | 6357.0 | 6397.0 | 6151.0 | 6079.0 | 6073.0 |
| 22.5° | 5126.8 | 5110.8 | 5058.8 | 5060.8 | 5092.8 | 5526.9 | 6199.0 | 5975.0 | 5951.0 | 5937.0 |
| 25° | 5218.9 | 5186.8 | 5144.8 | 5132.8 | 5142.8 | 5062.8 | 5536.9 | 5802.9 | 5684.9 | 5630.9 |
| 27.5° | 5056.8 | 5058.8 | 5024.8 | 5056.8 | 5018.8 | 4658.8 | 4456.7 | 5466.9 | 5462.9 | 5438.9 |
| 30° | 4934.8 | 4928.8 | 4888.8 | 4928.8 | 4666.8 | 4264.7 | 4178.7 | 5098.8 | 5056.8 | 5024.8 |
| 32.5° | 4560.7 | 4564.7 | 4680.8 | 4836.8 | 4406.7 | 4088.7 | 3828.6 | 4554.7 | 4952.8 | 4934.8 |
| 35° | 3262.5 | 3270.5 | 3682.6 | 4452.7 | 4012.7 | 3738.6 | 3718.6 | 3936.6 | 4788.8 | 4796.8 |
| 37.5° | 3140.5 | 3140.5 | 3130.5 | 3256.5 | 3702.6 | 3596.6 | 3636.6 | 3614.6 | 4386.7 | 4406.7 |
| 40° | 3052.5 | 3034.5 | 3020.5 | 2822.5 | 2574.4 | 3496.6 | 3524.6 | 3424.6 | 4146.7 | 4150.7 |
| 42.5° | 2946.5 | 2926.5 | 2930.5 | 2564.4 | 2304.4 | 3248.5 | 3170.5 | 3036.5 | 3746.6 | 3750.6 |
| 45° | 2752.4 | 2786.5 | 2810.5 | 2244.4 | 2224.4 | 2320.4 | 2924.5 | 2840.5 | 3476.6 | 3550.6 |
| 47.5° | 1400.2 | 1430.2 | 2194.4 | 2064.3 | 2110.3 | 2062.3 | 2470.4 | 2472.4 | 2892.5 | 3138.5 |
| 50° | 1270.2 | 1262.2 | 1264.2 | 1204.2 | 1948.3 | 1668.3 | 1786.3 | 2266.4 | 2316.4 | 2668.4 |
| 52.5° | 1184.2 | 1182.2 | 1060.2 | 942.2 | 1224.2 | 1468.2 | 1296.2 | 1640.3 | 1722.3 | 2260.4 |
| 55° | 876.1 | 940.2 | 836.1 | 886.1 | 766.1 | 1176.2 | 1170.2 | 1480.2 | 1508.2 | 1812.3 |
| 57.5° | 8.0 | 10.0 | 24.0 | 674.1 | 530.1 | 588.1 | 808.1 | 1010.2 | 1060.2 | 1412.2 |
| 60° | 2.0 | 4.0 | 10.0 | 20.0 | 344.1 | 362.1 | 540.1 | 584.1 | 658.1 | 842.1 |
| 62.5° | 0.0 | 0.0 | 4.0 | 10.0 | 18.0 | 148.0 | 172.0 | 188.0 | 290.0 | 430.1 |
| 65° | 0.0 | 0.0 | 2.0 | 6.0 | 10.0 | 24.0 | 42.0 | 88.0 | 126.0 | 156.0 |
| 67.5° | 0.0 | 0.0 | 2.0 | 4.0 | 8.0 | 12.0 | 24.0 | 34.0 | 54.0 | 92.0 |
| 70° | 0.0 | 0.0 | 2.0 | 4.0 | 6.0 | 10.0 | 16.0 | 24.0 | 32.0 | 46.0 |
| 72.5° | 0.0 | 0.0 | 2.0 | 4.0 | 4.0 | 12.0 | 12.0 | 18.0 | 24.0 | 30.0 |
| 75° | 0.0 | 0.0 | 2.0 | 2.0 | 4.0 | 8.0 | 12.0 | 14.0 | 16.0 | 24.0 |
| 77.5° | 0.0 | 0.0 | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 | 16.0 | 14.0 | 14.0 |
| 80° | 0.0 | 0.0 | 2.0 | 6.0 | 6.0 | 10.0 | 12.0 | 16.0 | 10.0 | 10.0 |
| 82.5° | 0.0 | 0.0 | 2.0 | 8.0 | 6.0 | 20.0 | 20.0 | 22.0 | 8.0 | 8.0 |
| 85° | 0.0 | 0.0 | 6.0 | 4.0 | 12.0 | 20.0 | 18.0 | 12.0 | 10.0 | 6.0 |
| 87.5° | 0.0 | 0.0 | 2.0 | 2.0 | 4.0 | 6.0 | 14.0 | 12.0 | 4.0 | 4.0 |
| 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-SA4A-740-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5873.0 | 0° | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 | 5873.0 |
| 5837.0 | 2.5° | 5917.0 | 5891.0 | 5945.0 | 5939.0 | 5913.0 | 5901.0 | 5887.0 | 5875.0 | 5786.9 |
| 5841.0 | 5° | 5919.0 | 5879.0 | 5945.0 | 5933.0 | 5929.0 | 5909.0 | 5897.0 | 5915.0 | 5835.0 |
| 5857.0 | 7.5° | 5919.0 | 5879.0 | 5951.0 | 5955.0 | 5949.0 | 5933.0 | 5931.0 | 5943.0 | 5877.0 |
| 5885.0 | 10° | 5959.0 | 5943.0 | 6003.0 | 6009.0 | 6001.0 | 5997.0 | 5987.0 | 5979.0 | 5909.0 |
| 5981.0 | 12.5° | 6043.0 | 6011.0 | 6079.0 | 6097.0 | 6091.0 | 6101.0 | 6077.0 | 6089.0 | 6017.0 |
| 6079.0 | 15° | 6145.0 | 6147.0 | 6199.0 | 6239.0 | 6235.0 | 6267.0 | 6231.0 | 6263.0 | 6211.0 |
| 6191.0 | 17.5° | 6301.0 | 6323.0 | 6397.0 | 6457.1 | 6479.1 | 6503.1 | 6479.1 | 6489.1 | 6415.0 |
| 6067.0 | 20° | 6137.0 | 6219.0 | 6575.1 | 6685.1 | 6731.1 | 6753.1 | 6713.1 | 6725.1 | 6651.1 |
| 5915.0 | 22.5° | 5989.0 | 6095.0 | 6411.0 | 6755.1 | 6897.1 | 6941.1 | 6927.1 | 6925.1 | 6897.1 |
| 5614.9 | 25° | 5770.9 | 5985.0 | 6127.0 | 6491.1 | 6937.1 | 7017.1 | 7025.1 | 7023.1 | 6981.1 |
| 5430.9 | 27.5° | 5502.9 | 5550.9 | 5919.0 | 6141.0 | 6657.1 | 6961.1 | 6949.1 | 6891.1 | 6835.1 |
| 5048.8 | 30° | 5160.8 | 5378.9 | 5544.9 | 5899.0 | 6295.0 | 6789.1 | 6789.1 | 6745.1 | 6687.1 |
| 4912.8 | 32.5° | 4986.8 | 5268.9 | 5422.9 | 5550.9 | 5889.0 | 6597.1 | 6677.1 | 6631.1 | 6585.1 |
| 4806.8 | 35° | 4894.8 | 4936.8 | 5296.9 | 5412.9 | 5698.9 | 6227.0 | 6551.1 | 6505.1 | 6471.1 |
| 4524.7 | 37.5° | 4692.8 | 4790.8 | 4958.8 | 5268.9 | 5356.9 | 5925.0 | 6383.0 | 6359.0 | 6319.0 |
| 4158.7 | 40° | 4242.7 | 4504.7 | 4762.8 | 5056.8 | 5148.8 | 5536.9 | 6179.0 | 6189.0 | 6135.0 |
| 3768.6 | 42.5° | 3976.6 | 4154.7 | 4558.7 | 4756.8 | 5004.8 | 5286.9 | 5981.0 | 5997.0 | 5959.0 |
| 3570.6 | 45° | 3664.6 | 3862.6 | 4146.7 | 4506.7 | 4844.8 | 4942.8 | 5630.9 | 5798.9 | 5766.9 |
| 3176.5 | 47.5° | 3378.6 | 3538.6 | 3886.6 | 4250.7 | 4624.8 | 4610.8 | 5228.9 | 5544.9 | 5500.9 |
| 2874.5 | 50° | 2972.5 | 3252.5 | 3416.6 | 3750.6 | 4308.7 | 4346.7 | 4800.8 | 5246.9 | 5210.9 |
| 2442.4 | 52.5° | 2506.4 | 2858.5 | 3172.5 | 3478.6 | 3988.7 | 4078.7 | 4402.7 | 4942.8 | 4918.8 |
| 1866.3 | 55° | 2190.4 | 2446.4 | 2800.5 | 3046.5 | 3600.6 | 3840.6 | 4104.7 | 4652.8 | 4640.8 |
| 1534.3 | 57.5° | 1558.3 | 2052.3 | 2344.4 | 2688.4 | 2980.5 | 3414.6 | 3610.6 | 4062.7 | 3950.6 |
| 850.1 | 60° | 1056.2 | 1288.2 | 1644.3 | 2014.3 | 2210.4 | 2644.4 | 2826.5 | 3188.5 | 3158.5 |
| 508.1 | 62.5° | 558.1 | 772.1 | 1026.2 | 1212.2 | 1354.2 | 1776.3 | 1852.3 | 2242.4 | 2232.4 |
| 204.0 | 65° | 246.0 | 326.1 | 556.1 | 652.1 | 798.1 | 994.2 | 1060.2 | 1200.2 | 1166.2 |
| 100.0 | 67.5° | 128.0 | 194.0 | 314.1 | 386.1 | 486.1 | 560.1 | 614.1 | 658.1 | 686.1 |
| 66.0 | 70° | 78.0 | 142.0 | 194.0 | 268.0 | 334.1 | 394.1 | 436.1 | 496.1 | 532.1 |
| 34.0 | 72.5° | 58.0 | 90.0 | 134.0 | 206.0 | 242.0 | 312.1 | 354.1 | 398.1 | 430.1 |
| 28.0 | 75° | 32.0 | 60.0 | 108.0 | 162.0 | 194.0 | 254.0 | 292.0 | 322.1 | 332.1 |
| 16.0 | 77.5° | 20.0 | 46.0 | 90.0 | 126.0 | 152.0 | 206.0 | 196.0 | 224.0 | 248.0 |
| 12.0 | 80° | 14.0 | 34.0 | 70.0 | 104.0 | 106.0 | 132.0 | 156.0 | 180.0 | 196.0 |
| 8.0 | 82.5° | 10.0 | 28.0 | 52.0 | 80.0 | 70.0 | 102.0 | 122.0 | 140.0 | 102.0 |
| 6.0 | 85° | 8.0 | 20.0 | 26.0 | 48.0 | 40.0 | 72.0 | 62.0 | 60.0 | 40.0 |
| 4.0 | 87.5° | 6.0 | 10.0 | 18.0 | 22.0 | 16.0 | 16.0 | 20.0 | 24.0 | 20.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
5873.0
5726.9
5766.9
5800.9
5851.0
5953.0
6125.0
6351.0
6599.1
6807.1
6917.1
6791.1
6665.1
6547.1
6423.0
6279.0
6123.0
5955.0
5770.9
5532.9
5216.9
4934.8
4654.8
3938.6
3160.5
2234.4
1152.2
686.1
534.1
436.1
326.1
252.0
198.0
74.0
40.0
20.0
0.0

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