

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: P636956

Luminaire Tested: **IFLD-M-SA4B-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636956
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12163.9 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

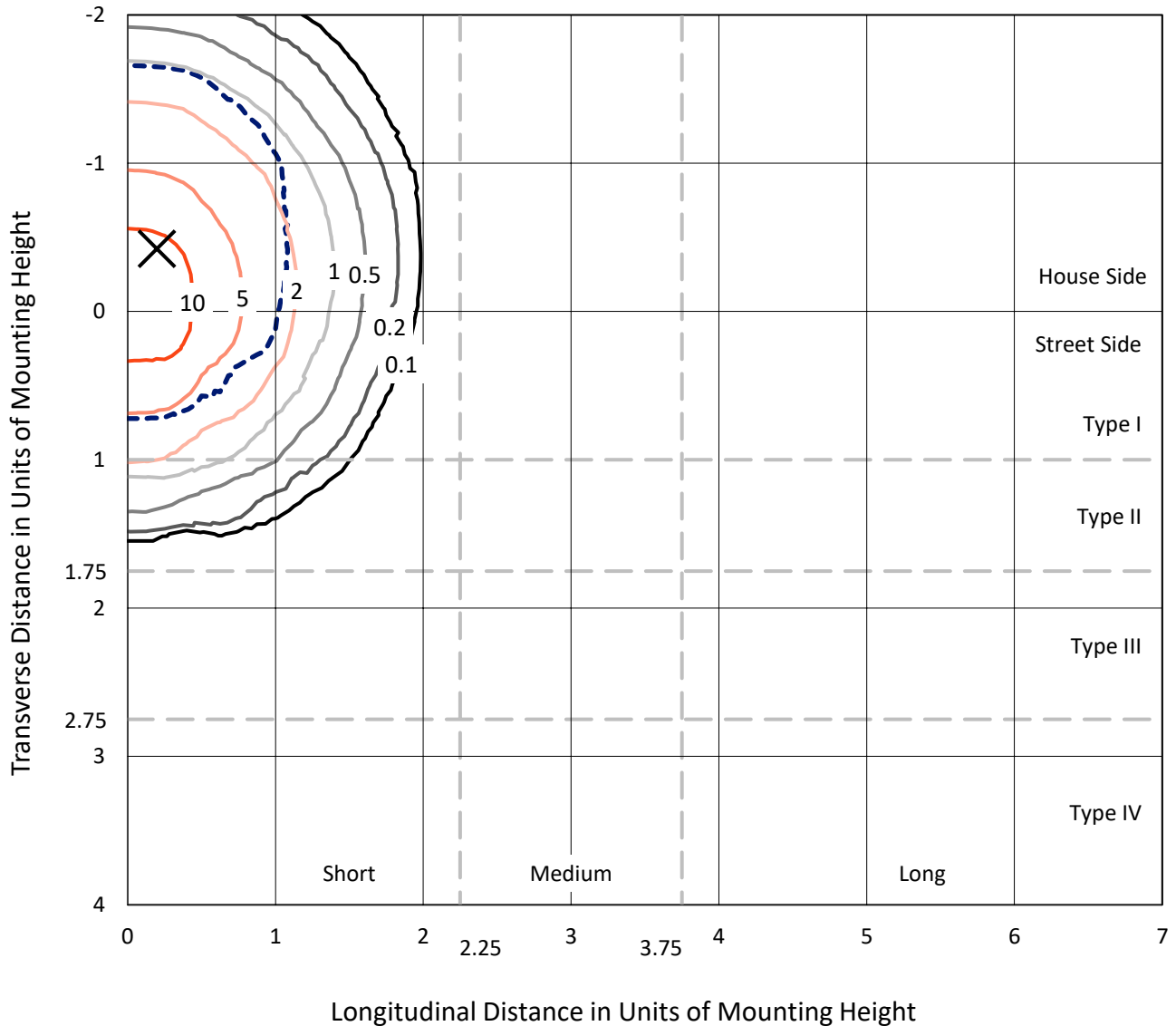
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

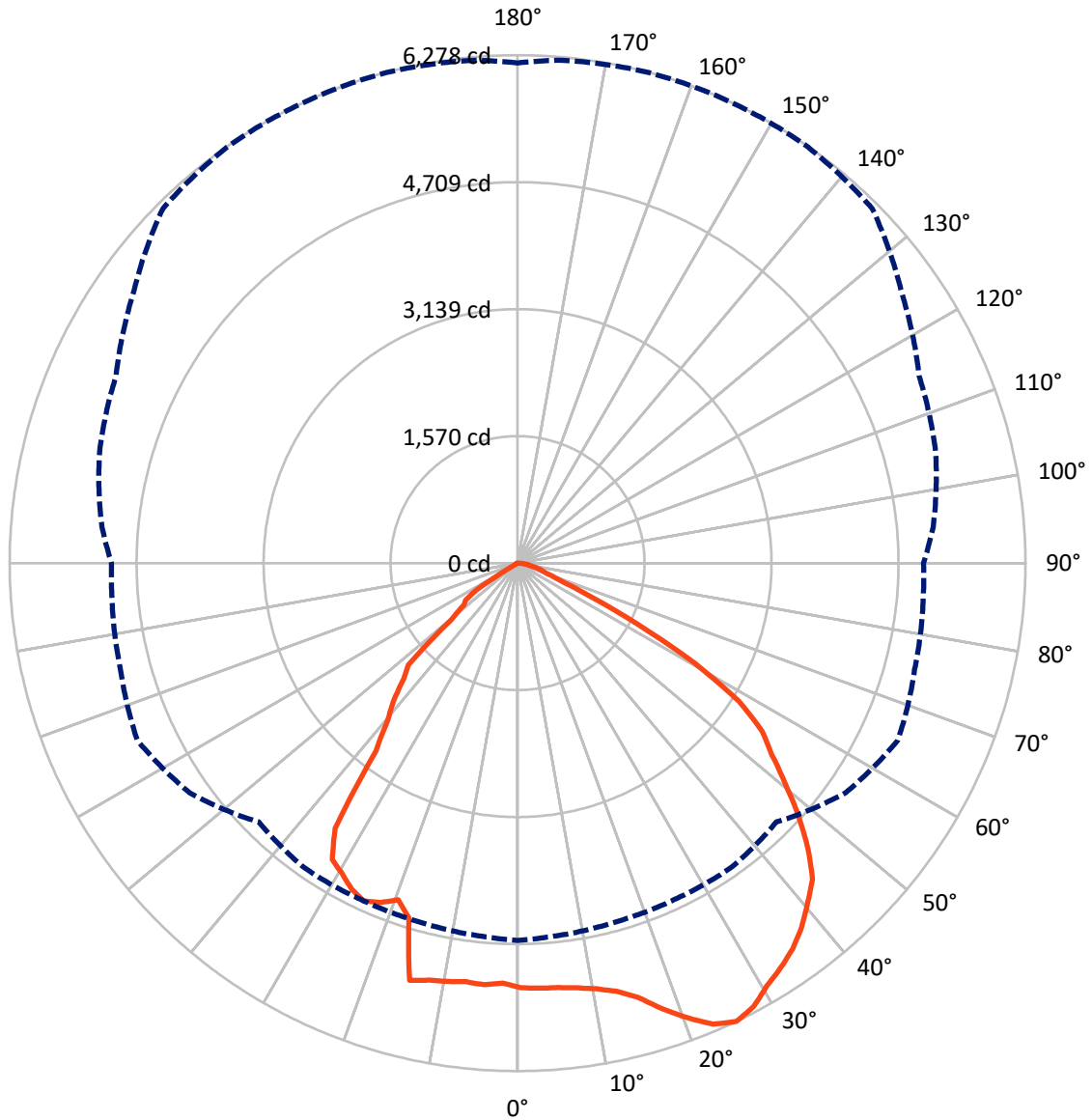
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.1 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 | 7530.7 | 0.0 | 7530.7 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 4633.2 | 0.0 | 4633.2 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 12163.9 | 0.0 | 12163.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 503.5 | 4.1 |
| 10°-20° | 1537.5 | 12.6 |
| 20°-30° | 2430.7 | 20.0 |
| 30°-40° | 2745.7 | 22.6 |
| 40°-50° | 2571.4 | 21.1 |
| 50°-60° | 1772.8 | 14.6 |
| 60°-70° | 476.3 | 3.9 |
| 70°-80° | 99.3 | 0.8 |
| 80°-90° | 26.9 | 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° | 12163.9 | 100.0 |
| 0°-180° | 12163.9 | 100.0 |



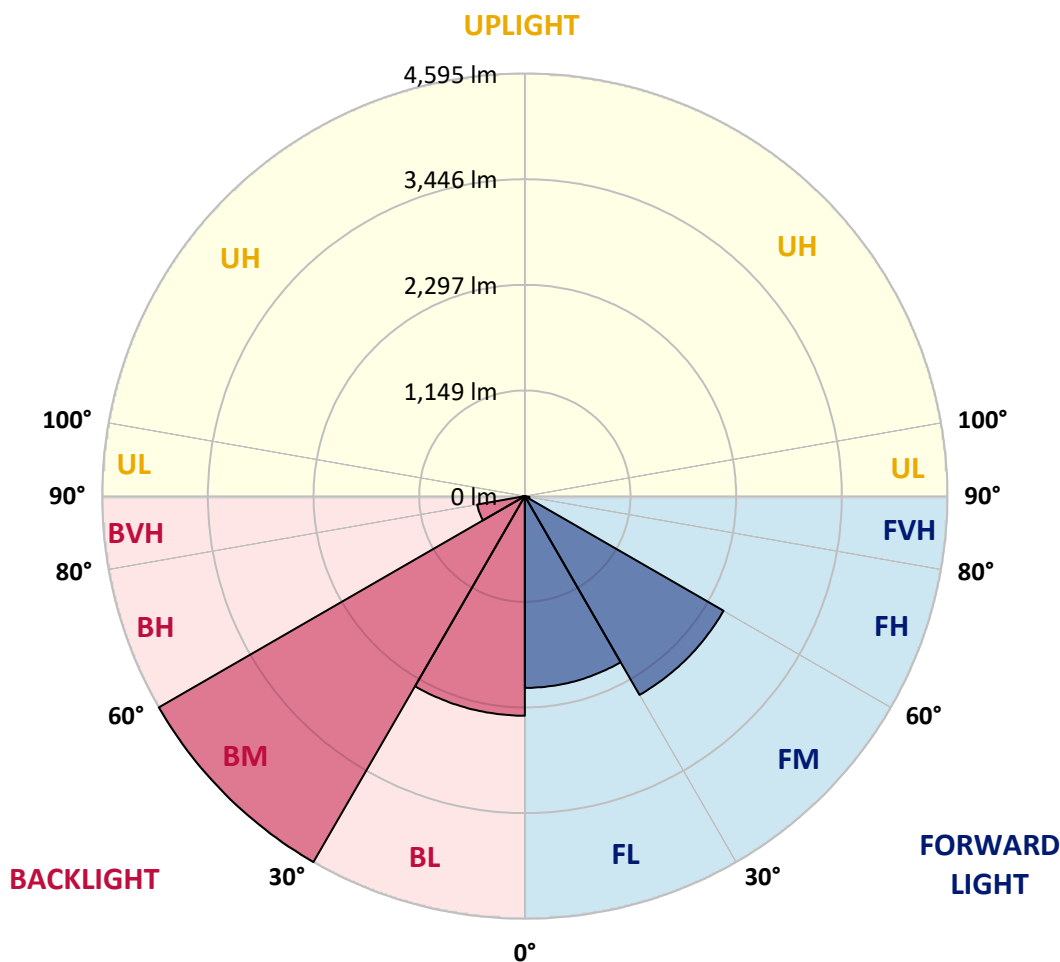
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2084.5 | 17.1 | | | |
| FM (30°-60°) | 2495.1 | 20.5 | | | |
| FH (60°-80°) | 50.0 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 3.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2387.2 | 19.6 | B3/2500 | | |
| BM (30°-60°) | 4594.7 | 37.8 | B3/5000 | | |
| BH (60°-80°) | 525.5 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 23.3 | 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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 |
| 2.5° | 5271.7 | 5237.8 | 5205.6 | 5194.9 | 5239.6 | 5287.8 | 5257.4 | 5259.2 | 5248.5 | 5268.2 |
| 5° | 5311.1 | 5264.6 | 5243.1 | 5227.1 | 5234.2 | 5284.3 | 5241.4 | 5257.4 | 5239.6 | 5262.8 |
| 7.5° | 5296.8 | 5264.6 | 5243.1 | 5212.7 | 5236.0 | 5295.0 | 5253.9 | 5255.7 | 5246.7 | 5268.2 |
| 10° | 5287.8 | 5264.6 | 5237.8 | 5241.4 | 5268.2 | 5318.2 | 5286.0 | 5303.9 | 5291.4 | 5303.9 |
| 12.5° | 5309.3 | 5284.3 | 5270.0 | 5270.0 | 5293.2 | 5350.4 | 5334.3 | 5350.4 | 5345.0 | 5355.8 |
| 15° | 5107.3 | 5130.5 | 5266.4 | 5327.2 | 5373.6 | 5430.8 | 5423.7 | 5439.8 | 5443.4 | 5459.4 |
| 17.5° | 4308.2 | 4285.0 | 4274.2 | 4587.1 | 5418.3 | 5595.3 | 5589.9 | 5588.2 | 5570.3 | 5557.8 |
| 20° | 4413.7 | 4404.7 | 4392.2 | 4415.5 | 4508.4 | 5681.1 | 5716.9 | 5497.0 | 5432.6 | 5427.3 |
| 22.5° | 4581.7 | 4567.4 | 4520.9 | 4522.7 | 4551.3 | 4939.2 | 5539.9 | 5339.7 | 5318.2 | 5305.7 |
| 25° | 4663.9 | 4635.3 | 4597.8 | 4587.1 | 4596.0 | 4524.5 | 4948.2 | 5185.9 | 5080.5 | 5032.2 |
| 27.5° | 4519.1 | 4520.9 | 4490.5 | 4519.1 | 4485.2 | 4163.4 | 3982.9 | 4885.6 | 4882.0 | 4860.6 |
| 30° | 4410.1 | 4404.7 | 4369.0 | 4404.7 | 4170.6 | 3811.2 | 3734.4 | 4556.7 | 4519.1 | 4490.5 |
| 32.5° | 4075.8 | 4079.4 | 4183.1 | 4322.5 | 3938.2 | 3653.9 | 3421.5 | 4070.4 | 4426.2 | 4410.1 |
| 35° | 2915.6 | 2922.8 | 3291.0 | 3979.3 | 3586.0 | 3341.1 | 3323.2 | 3518.1 | 4279.6 | 4286.8 |
| 37.5° | 2806.6 | 2806.6 | 2797.7 | 2910.3 | 3308.9 | 3214.2 | 3249.9 | 3230.3 | 3920.3 | 3938.2 |
| 40° | 2727.9 | 2711.8 | 2699.3 | 2522.4 | 2300.7 | 3124.8 | 3149.8 | 3060.4 | 3705.8 | 3709.3 |
| 42.5° | 2633.2 | 2615.3 | 2618.9 | 2291.8 | 2059.4 | 2903.1 | 2833.4 | 2713.6 | 3348.2 | 3351.8 |
| 45° | 2459.8 | 2490.2 | 2511.6 | 2005.7 | 1987.9 | 2073.7 | 2613.5 | 2538.4 | 3106.9 | 3173.1 |
| 47.5° | 1251.3 | 1278.2 | 1961.0 | 1844.8 | 1886.0 | 1843.1 | 2207.7 | 2209.5 | 2584.9 | 2804.8 |
| 50° | 1135.1 | 1128.0 | 1129.8 | 1076.2 | 1741.2 | 1490.9 | 1596.4 | 2025.4 | 2070.1 | 2384.7 |
| 52.5° | 1058.3 | 1056.5 | 947.4 | 842.0 | 1094.0 | 1312.1 | 1158.4 | 1465.9 | 1539.2 | 2020.0 |
| 55° | 783.0 | 840.2 | 747.2 | 791.9 | 684.7 | 1051.1 | 1045.8 | 1322.9 | 1347.9 | 1619.6 |
| 57.5° | 7.2 | 8.9 | 21.5 | 602.4 | 473.7 | 525.6 | 722.2 | 902.8 | 947.4 | 1262.1 |
| 60° | 1.8 | 3.6 | 8.9 | 17.9 | 307.5 | 323.6 | 482.7 | 522.0 | 588.1 | 752.6 |
| 62.5° | 0.0 | 0.0 | 3.6 | 8.9 | 16.1 | 132.3 | 153.7 | 168.0 | 259.2 | 384.3 |
| 65° | 0.0 | 0.0 | 1.8 | 5.4 | 8.9 | 21.5 | 37.5 | 78.7 | 112.6 | 139.4 |
| 67.5° | 0.0 | 0.0 | 1.8 | 3.6 | 7.2 | 10.7 | 21.5 | 30.4 | 48.3 | 82.2 |
| 70° | 0.0 | 0.0 | 1.8 | 3.6 | 5.4 | 8.9 | 14.3 | 21.5 | 28.6 | 41.1 |
| 72.5° | 0.0 | 0.0 | 1.8 | 3.6 | 3.6 | 10.7 | 10.7 | 16.1 | 21.5 | 26.8 |
| 75° | 0.0 | 0.0 | 1.8 | 1.8 | 3.6 | 7.2 | 10.7 | 12.5 | 14.3 | 21.5 |
| 77.5° | 0.0 | 0.0 | 1.8 | 3.6 | 5.4 | 7.2 | 8.9 | 14.3 | 12.5 | 12.5 |
| 80° | 0.0 | 0.0 | 1.8 | 5.4 | 5.4 | 8.9 | 10.7 | 14.3 | 8.9 | 8.9 |
| 82.5° | 0.0 | 0.0 | 1.8 | 7.2 | 5.4 | 17.9 | 17.9 | 19.7 | 7.2 | 7.2 |
| 85° | 0.0 | 0.0 | 5.4 | 3.6 | 10.7 | 17.9 | 16.1 | 10.7 | 8.9 | 5.4 |
| 87.5° | 0.0 | 0.0 | 1.8 | 1.8 | 3.6 | 5.4 | 12.5 | 10.7 | 3.6 | 3.6 |
| 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-940-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5248.5 | 0° | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 | 5248.5 |
| 5216.3 | 2.5° | 5287.8 | 5264.6 | 5312.9 | 5307.5 | 5284.3 | 5273.5 | 5261.0 | 5250.3 | 5171.6 |
| 5219.9 | 5° | 5289.6 | 5253.9 | 5312.9 | 5302.1 | 5298.6 | 5280.7 | 5270.0 | 5286.0 | 5214.5 |
| 5234.2 | 7.5° | 5289.6 | 5253.9 | 5318.2 | 5321.8 | 5316.4 | 5302.1 | 5300.3 | 5311.1 | 5252.1 |
| 5259.2 | 10° | 5325.4 | 5311.1 | 5364.7 | 5370.1 | 5362.9 | 5359.3 | 5350.4 | 5343.2 | 5280.7 |
| 5345.0 | 12.5° | 5400.5 | 5371.8 | 5432.6 | 5448.7 | 5443.4 | 5452.3 | 5430.8 | 5441.6 | 5377.2 |
| 5432.6 | 15° | 5491.6 | 5493.4 | 5539.9 | 5575.6 | 5572.1 | 5600.7 | 5568.5 | 5597.1 | 5550.6 |
| 5532.7 | 17.5° | 5631.1 | 5650.7 | 5716.9 | 5770.5 | 5790.2 | 5811.6 | 5790.2 | 5799.1 | 5733.0 |
| 5421.9 | 20° | 5484.5 | 5557.8 | 5876.0 | 5974.3 | 6015.4 | 6035.1 | 5999.3 | 6010.0 | 5943.9 |
| 5286.0 | 22.5° | 5352.2 | 5446.9 | 5729.4 | 6036.9 | 6163.8 | 6203.1 | 6190.6 | 6188.8 | 6163.8 |
| 5017.9 | 25° | 5157.3 | 5348.6 | 5475.5 | 5800.9 | 6199.5 | 6271.0 | 6278.2 | 6276.4 | 6238.9 |
| 4853.4 | 27.5° | 4917.8 | 4960.7 | 5289.6 | 5488.0 | 5949.3 | 6221.0 | 6210.3 | 6158.4 | 6108.4 |
| 4512.0 | 30° | 4612.1 | 4807.0 | 4955.3 | 5271.7 | 5625.7 | 6067.2 | 6067.2 | 6027.9 | 5976.1 |
| 4390.4 | 32.5° | 4456.6 | 4708.6 | 4846.3 | 4960.7 | 5262.8 | 5895.6 | 5967.1 | 5926.0 | 5884.9 |
| 4295.7 | 35° | 4374.3 | 4411.9 | 4733.7 | 4837.3 | 5093.0 | 5564.9 | 5854.5 | 5813.4 | 5783.0 |
| 4043.6 | 37.5° | 4193.8 | 4281.4 | 4431.6 | 4708.6 | 4787.3 | 5295.0 | 5704.4 | 5682.9 | 5647.1 |
| 3716.5 | 40° | 3791.6 | 4025.8 | 4256.4 | 4519.1 | 4601.4 | 4948.2 | 5522.0 | 5530.9 | 5482.7 |
| 3367.9 | 42.5° | 3553.8 | 3712.9 | 4074.0 | 4251.0 | 4472.7 | 4724.7 | 5345.0 | 5359.3 | 5325.4 |
| 3190.9 | 45° | 3275.0 | 3451.9 | 3705.8 | 4027.5 | 4329.7 | 4417.3 | 5032.2 | 5182.4 | 5153.8 |
| 2838.8 | 47.5° | 3019.3 | 3162.3 | 3473.4 | 3798.7 | 4133.0 | 4120.5 | 4672.9 | 4955.3 | 4916.0 |
| 2568.8 | 50° | 2656.4 | 2906.7 | 3053.3 | 3351.8 | 3850.6 | 3884.5 | 4290.3 | 4689.0 | 4656.8 |
| 2182.7 | 52.5° | 2239.9 | 2554.5 | 2835.2 | 3108.7 | 3564.5 | 3645.0 | 3934.6 | 4417.3 | 4395.8 |
| 1667.9 | 55° | 1957.5 | 2186.3 | 2502.7 | 2722.6 | 3217.7 | 3432.3 | 3668.2 | 4158.0 | 4147.3 |
| 1371.1 | 57.5° | 1392.6 | 1834.1 | 2095.1 | 2402.6 | 2663.6 | 3051.5 | 3226.7 | 3630.7 | 3530.6 |
| 759.7 | 60° | 943.9 | 1151.2 | 1469.4 | 1800.2 | 1975.3 | 2363.3 | 2525.9 | 2849.5 | 2822.7 |
| 454.1 | 62.5° | 498.8 | 690.0 | 917.1 | 1083.3 | 1210.2 | 1587.4 | 1655.4 | 2003.9 | 1995.0 |
| 182.3 | 65° | 219.9 | 291.4 | 497.0 | 582.8 | 713.3 | 888.5 | 947.4 | 1072.6 | 1042.2 |
| 89.4 | 67.5° | 114.4 | 173.4 | 280.7 | 345.0 | 434.4 | 500.5 | 548.8 | 588.1 | 613.2 |
| 59.0 | 70° | 69.7 | 126.9 | 173.4 | 239.5 | 298.5 | 352.2 | 389.7 | 443.3 | 475.5 |
| 30.4 | 72.5° | 51.8 | 80.4 | 119.8 | 184.1 | 216.3 | 278.9 | 316.4 | 355.7 | 384.3 |
| 25.0 | 75° | 28.6 | 53.6 | 96.5 | 144.8 | 173.4 | 227.0 | 261.0 | 287.8 | 296.7 |
| 14.3 | 77.5° | 17.9 | 41.1 | 80.4 | 112.6 | 135.9 | 184.1 | 175.2 | 200.2 | 221.7 |
| 10.7 | 80° | 12.5 | 30.4 | 62.6 | 93.0 | 94.7 | 118.0 | 139.4 | 160.9 | 175.2 |
| 7.2 | 82.5° | 8.9 | 25.0 | 46.5 | 71.5 | 62.6 | 91.2 | 109.0 | 125.1 | 91.2 |
| 5.4 | 85° | 7.2 | 17.9 | 23.2 | 42.9 | 35.8 | 64.4 | 55.4 | 53.6 | 35.8 |
| 3.6 | 87.5° | 5.4 | 8.9 | 16.1 | 19.7 | 14.3 | 14.3 | 17.9 | 21.5 | 17.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
5248.5
5118.0
5153.8
5184.1
5228.8
5320.0
5473.7
5675.7
5897.4
6083.3
6181.6
6069.0
5956.4
5850.9
5740.1
5611.4
5472.0
5321.8
5157.3
4944.6
4662.2
4410.1
4159.8
3519.9
2824.5
1996.8
1029.7
613.2
477.3
389.7
291.4
225.2
177.0
66.1
35.8
17.9
0.0

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