

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: P636880

Luminaire Tested: **IFLD-L-SA8C-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636880
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23640.7 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

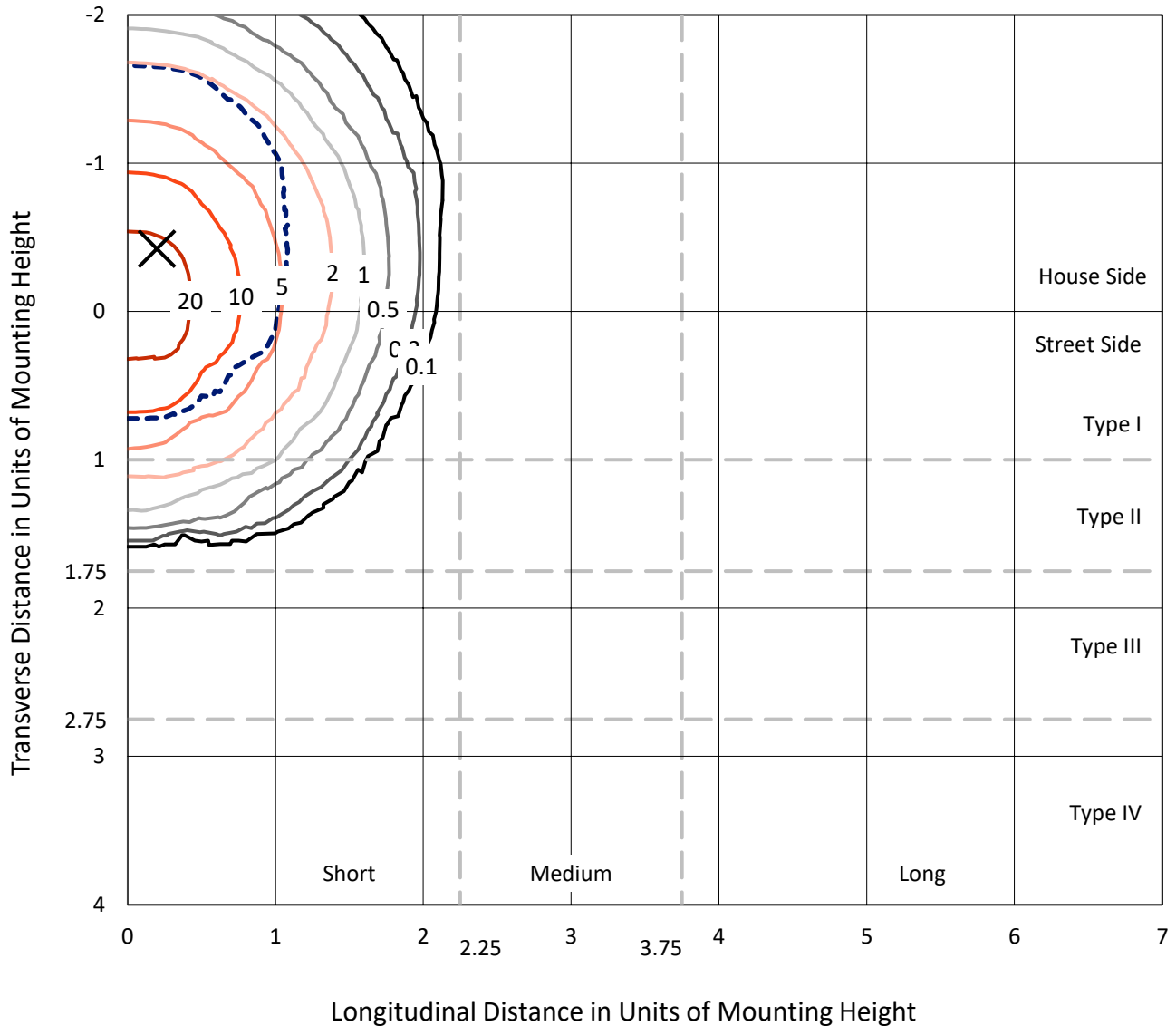
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

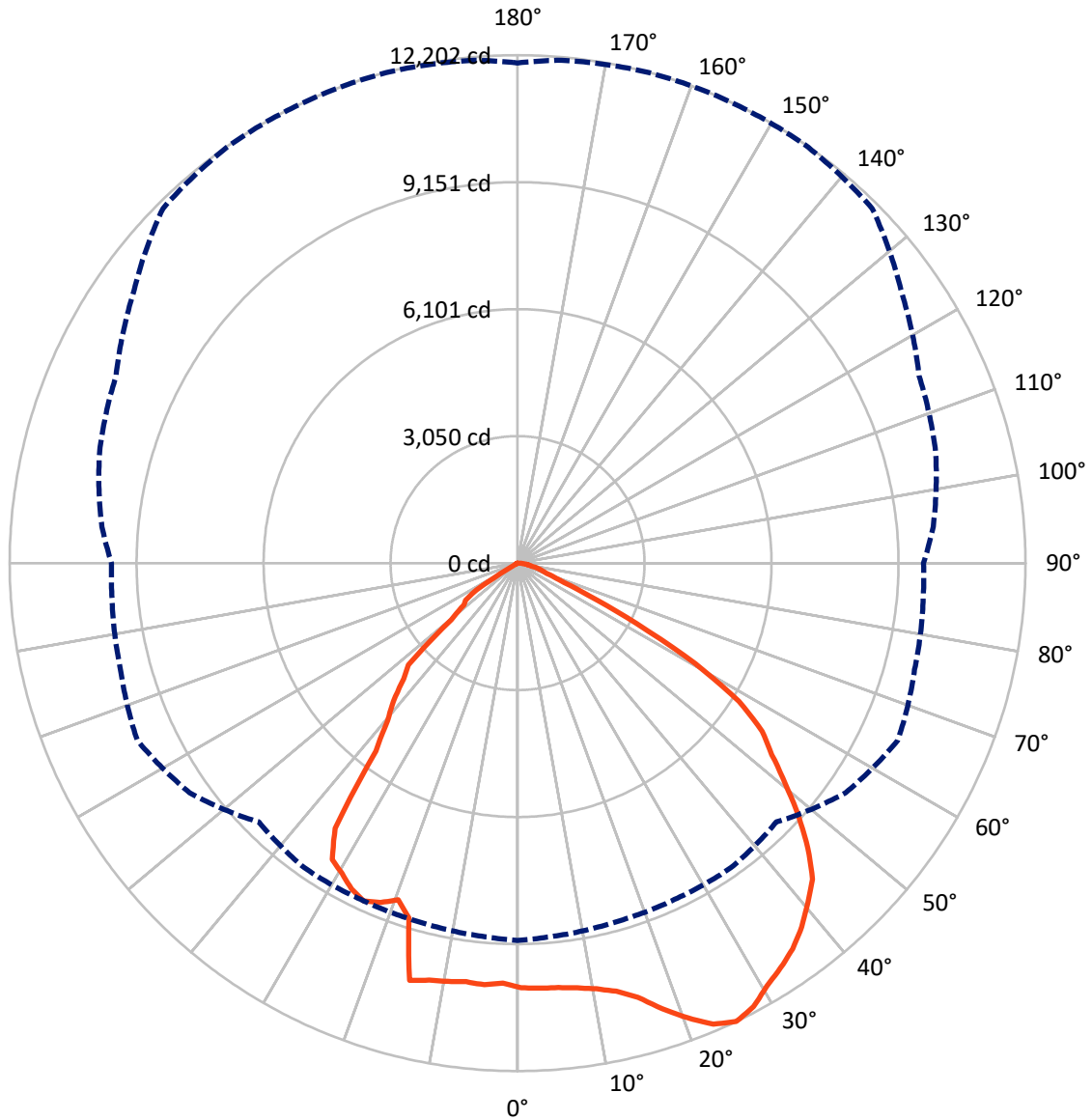
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.5 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 | 14636.0 | 0.0 | 14636.0 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 9004.7 | 0.0 | 9004.7 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 23640.7 | 0.0 | 23640.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 978.6 | 4.1 |
| 10°-20° | 2988.1 | 12.6 |
| 20°-30° | 4724.1 | 20.0 |
| 30°-40° | 5336.2 | 22.6 |
| 40°-50° | 4997.5 | 21.1 |
| 50°-60° | 3445.4 | 14.6 |
| 60°-70° | 925.7 | 3.9 |
| 70°-80° | 192.9 | 0.8 |
| 80°-90° | 52.2 | 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° | 23640.7 | 100.0 |
| 0°-180° | 23640.7 | 100.0 |



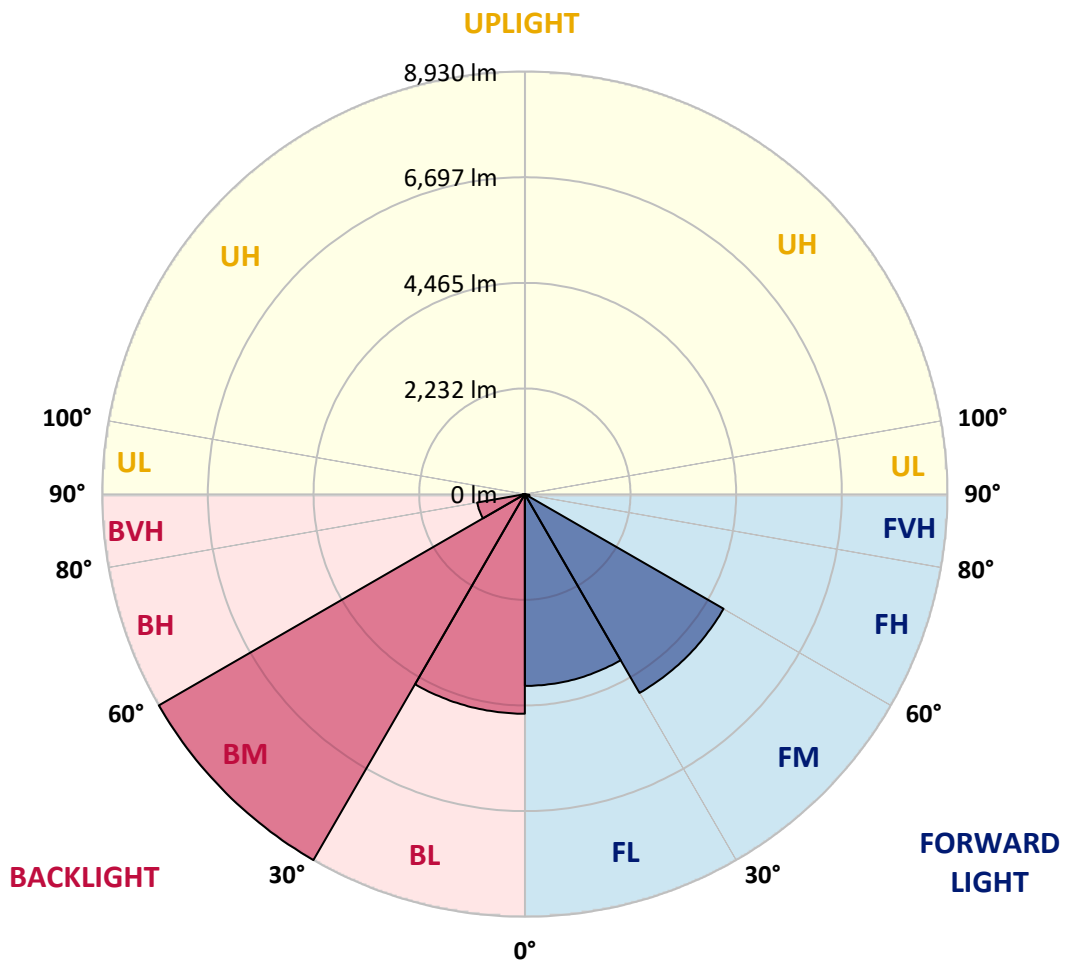
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4051.3 | 17.1 | | | |
| FM (30°-60°) | 4849.2 | 20.5 | | | |
| FH (60°-80°) | 97.2 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 7.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 4639.5 | 19.6 | B4/5000 | | |
| BM (30°-60°) | 8929.9 | 37.8 | B5 | | |
| BH (60°-80°) | 1021.4 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 45.2 | 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° | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 |
| 2.5° | 10245.7 | 10179.7 | 10117.2 | 10096.3 | 10183.2 | 10277.0 | 10217.9 | 10221.4 | 10200.5 | 10238.8 |
| 5° | 10322.1 | 10231.8 | 10190.1 | 10158.9 | 10172.8 | 10270.0 | 10186.7 | 10217.9 | 10183.2 | 10228.3 |
| 7.5° | 10294.4 | 10231.8 | 10190.1 | 10131.1 | 10176.2 | 10290.9 | 10211.0 | 10214.4 | 10197.1 | 10238.8 |
| 10° | 10277.0 | 10231.8 | 10179.7 | 10186.7 | 10238.8 | 10336.0 | 10273.5 | 10308.3 | 10283.9 | 10308.3 |
| 12.5° | 10318.7 | 10270.0 | 10242.2 | 10242.2 | 10287.4 | 10398.6 | 10367.3 | 10398.6 | 10388.2 | 10409.0 |
| 15° | 9926.1 | 9971.2 | 10235.3 | 10353.4 | 10443.7 | 10554.9 | 10541.0 | 10572.3 | 10579.2 | 10610.5 |
| 17.5° | 8373.1 | 8327.9 | 8307.1 | 8915.1 | 10530.6 | 10874.6 | 10864.1 | 10860.7 | 10825.9 | 10801.6 |
| 20° | 8578.0 | 8560.7 | 8536.4 | 8581.5 | 8762.2 | 11041.3 | 11110.8 | 10683.5 | 10558.4 | 10548.0 |
| 22.5° | 8904.6 | 8876.8 | 8786.5 | 8790.0 | 8845.6 | 9599.5 | 10766.9 | 10377.7 | 10336.0 | 10311.7 |
| 25° | 9064.5 | 9008.9 | 8935.9 | 8915.1 | 8932.4 | 8793.5 | 9616.9 | 10078.9 | 9874.0 | 9780.2 |
| 27.5° | 8783.0 | 8786.5 | 8727.4 | 8783.0 | 8717.0 | 8091.6 | 7740.7 | 9495.3 | 9488.3 | 9446.6 |
| 30° | 8571.1 | 8560.7 | 8491.2 | 8560.7 | 8105.5 | 7407.2 | 7257.8 | 8856.0 | 8783.0 | 8727.4 |
| 32.5° | 7921.4 | 7928.4 | 8129.9 | 8400.9 | 7653.9 | 7101.5 | 6649.8 | 7911.0 | 8602.4 | 8571.1 |
| 35° | 5666.6 | 5680.5 | 6396.2 | 7733.8 | 6969.4 | 6493.5 | 6458.7 | 6837.4 | 8317.5 | 8331.4 |
| 37.5° | 5454.7 | 5454.7 | 5437.3 | 5656.2 | 6430.9 | 6246.8 | 6316.3 | 6278.1 | 7619.1 | 7653.9 |
| 40° | 5301.8 | 5270.5 | 5246.2 | 4902.2 | 4471.4 | 6073.1 | 6121.7 | 5948.0 | 7202.2 | 7209.2 |
| 42.5° | 5117.6 | 5082.9 | 5089.9 | 4454.1 | 4002.4 | 5642.3 | 5506.8 | 5274.0 | 6507.4 | 6514.3 |
| 45° | 4780.6 | 4839.7 | 4881.4 | 3898.2 | 3863.4 | 4030.2 | 5079.4 | 4933.5 | 6038.3 | 6166.9 |
| 47.5° | 2432.0 | 2484.1 | 3811.3 | 3585.5 | 3665.4 | 3582.0 | 4290.8 | 4294.2 | 5023.8 | 5451.2 |
| 50° | 2206.2 | 2192.3 | 2195.8 | 2091.5 | 3384.0 | 2897.6 | 3102.6 | 3936.4 | 4023.2 | 4634.7 |
| 52.5° | 2056.8 | 2053.3 | 1841.4 | 1636.4 | 2126.3 | 2550.1 | 2251.3 | 2848.9 | 2991.4 | 3926.0 |
| 55° | 1521.7 | 1632.9 | 1452.3 | 1539.1 | 1330.7 | 2042.9 | 2032.5 | 2571.0 | 2619.6 | 3147.7 |
| 57.5° | 13.9 | 17.4 | 41.7 | 1170.8 | 920.7 | 1021.4 | 1403.6 | 1754.5 | 1841.4 | 2452.9 |
| 60° | 3.5 | 6.9 | 17.4 | 34.7 | 597.6 | 628.8 | 938.1 | 1014.5 | 1143.0 | 1462.7 |
| 62.5° | 0.0 | 0.0 | 6.9 | 17.4 | 31.3 | 257.1 | 298.8 | 326.6 | 503.8 | 747.0 |
| 65° | 0.0 | 0.0 | 3.5 | 10.4 | 17.4 | 41.7 | 73.0 | 152.9 | 218.9 | 271.0 |
| 67.5° | 0.0 | 0.0 | 3.5 | 6.9 | 13.9 | 20.8 | 41.7 | 59.1 | 93.8 | 159.8 |
| 70° | 0.0 | 0.0 | 3.5 | 6.9 | 10.4 | 17.4 | 27.8 | 41.7 | 55.6 | 79.9 |
| 72.5° | 0.0 | 0.0 | 3.5 | 6.9 | 6.9 | 20.8 | 20.8 | 31.3 | 41.7 | 52.1 |
| 75° | 0.0 | 0.0 | 3.5 | 3.5 | 6.9 | 13.9 | 20.8 | 24.3 | 27.8 | 41.7 |
| 77.5° | 0.0 | 0.0 | 3.5 | 6.9 | 10.4 | 13.9 | 17.4 | 27.8 | 24.3 | 24.3 |
| 80° | 0.0 | 0.0 | 3.5 | 10.4 | 10.4 | 17.4 | 20.8 | 27.8 | 17.4 | 17.4 |
| 82.5° | 0.0 | 0.0 | 3.5 | 13.9 | 10.4 | 34.7 | 34.7 | 38.2 | 13.9 | 13.9 |
| 85° | 0.0 | 0.0 | 10.4 | 6.9 | 20.8 | 34.7 | 31.3 | 20.8 | 17.4 | 10.4 |
| 87.5° | 0.0 | 0.0 | 3.5 | 3.5 | 6.9 | 10.4 | 24.3 | 20.8 | 6.9 | 6.9 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10200.5 | 0° | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 | 10200.5 |
| 10138.0 | 2.5° | 10277.0 | 10231.8 | 10325.6 | 10315.2 | 10270.0 | 10249.2 | 10224.9 | 10204.0 | 10051.2 |
| 10145.0 | 5° | 10280.5 | 10211.0 | 10325.6 | 10304.8 | 10297.8 | 10263.1 | 10242.2 | 10273.5 | 10134.5 |
| 10172.8 | 7.5° | 10280.5 | 10211.0 | 10336.0 | 10343.0 | 10332.6 | 10304.8 | 10301.3 | 10322.1 | 10207.5 |
| 10221.4 | 10° | 10349.9 | 10322.1 | 10426.4 | 10436.8 | 10422.9 | 10416.0 | 10398.6 | 10384.7 | 10263.1 |
| 10388.2 | 12.5° | 10495.9 | 10440.3 | 10558.4 | 10589.7 | 10579.2 | 10596.6 | 10554.9 | 10575.8 | 10450.7 |
| 10558.4 | 15° | 10673.1 | 10676.5 | 10766.9 | 10836.3 | 10829.4 | 10885.0 | 10822.4 | 10878.0 | 10787.7 |
| 10753.0 | 17.5° | 10944.0 | 10982.3 | 11110.8 | 11215.0 | 11253.3 | 11295.0 | 11253.3 | 11270.6 | 11142.1 |
| 10537.6 | 20° | 10659.2 | 10801.6 | 11420.0 | 11611.1 | 11691.0 | 11729.2 | 11659.8 | 11680.6 | 11552.1 |
| 10273.5 | 22.5° | 10402.1 | 10586.2 | 11135.1 | 11732.7 | 11979.4 | 12055.8 | 12031.5 | 12028.0 | 11979.4 |
| 9752.4 | 25° | 10023.4 | 10395.1 | 10641.8 | 11274.1 | 12048.9 | 12187.8 | 12201.7 | 12198.3 | 12125.3 |
| 9432.7 | 27.5° | 9557.8 | 9641.2 | 10280.5 | 10666.1 | 11562.5 | 12090.6 | 12069.7 | 11969.0 | 11871.7 |
| 8769.1 | 30° | 8963.7 | 9342.4 | 9630.8 | 10245.7 | 10933.6 | 11791.8 | 11791.8 | 11715.3 | 11614.6 |
| 8532.9 | 32.5° | 8661.4 | 9151.3 | 9418.8 | 9641.2 | 10228.3 | 11458.2 | 11597.2 | 11517.3 | 11437.4 |
| 8348.7 | 35° | 8501.6 | 8574.6 | 9199.9 | 9401.5 | 9898.3 | 10815.5 | 11378.3 | 11298.4 | 11239.4 |
| 7858.9 | 37.5° | 8150.7 | 8321.0 | 8612.8 | 9151.3 | 9304.2 | 10290.9 | 11086.5 | 11044.8 | 10975.3 |
| 7223.1 | 40° | 7369.0 | 7824.1 | 8272.3 | 8783.0 | 8942.9 | 9616.9 | 10732.1 | 10749.5 | 10655.7 |
| 6545.6 | 42.5° | 6906.9 | 7216.1 | 7917.9 | 8261.9 | 8692.7 | 9182.6 | 10388.2 | 10416.0 | 10349.9 |
| 6201.6 | 45° | 6364.9 | 6708.9 | 7202.2 | 7827.6 | 8414.8 | 8585.0 | 9780.2 | 10072.0 | 10016.4 |
| 5517.2 | 47.5° | 5868.1 | 6146.0 | 6750.6 | 7382.9 | 8032.6 | 8008.3 | 9081.8 | 9630.8 | 9554.3 |
| 4992.6 | 50° | 5162.8 | 5649.2 | 5934.1 | 6514.3 | 7483.6 | 7549.7 | 8338.3 | 9113.1 | 9050.6 |
| 4242.1 | 52.5° | 4353.3 | 4964.8 | 5510.2 | 6041.8 | 6927.8 | 7084.1 | 7646.9 | 8585.0 | 8543.3 |
| 3241.5 | 55° | 3804.4 | 4249.1 | 4864.0 | 5291.4 | 6253.7 | 6670.7 | 7129.3 | 8081.2 | 8060.4 |
| 2664.8 | 57.5° | 2706.5 | 3564.6 | 4071.9 | 4669.5 | 5176.7 | 5930.6 | 6271.1 | 7056.3 | 6861.7 |
| 1476.6 | 60° | 1834.4 | 2237.4 | 2855.9 | 3498.6 | 3839.1 | 4593.0 | 4909.2 | 5538.0 | 5485.9 |
| 882.5 | 62.5° | 969.3 | 1341.1 | 1782.3 | 2105.4 | 2352.1 | 3085.2 | 3217.2 | 3894.7 | 3877.3 |
| 354.4 | 65° | 427.3 | 566.3 | 965.9 | 1132.6 | 1386.2 | 1726.7 | 1841.4 | 2084.6 | 2025.5 |
| 173.7 | 67.5° | 222.4 | 337.0 | 545.5 | 670.5 | 844.3 | 972.8 | 1066.6 | 1143.0 | 1191.7 |
| 114.7 | 70° | 135.5 | 246.7 | 337.0 | 465.6 | 580.2 | 684.4 | 757.4 | 861.6 | 924.2 |
| 59.1 | 72.5° | 100.8 | 156.3 | 232.8 | 357.9 | 420.4 | 542.0 | 615.0 | 691.4 | 747.0 |
| 48.6 | 75° | 55.6 | 104.2 | 187.6 | 281.4 | 337.0 | 441.2 | 507.2 | 559.4 | 576.7 |
| 27.8 | 77.5° | 34.7 | 79.9 | 156.3 | 218.9 | 264.0 | 357.9 | 340.5 | 389.1 | 430.8 |
| 20.8 | 80° | 24.3 | 59.1 | 121.6 | 180.7 | 184.1 | 229.3 | 271.0 | 312.7 | 340.5 |
| 13.9 | 82.5° | 17.4 | 48.6 | 90.3 | 139.0 | 121.6 | 177.2 | 211.9 | 243.2 | 177.2 |
| 10.4 | 85° | 13.9 | 34.7 | 45.2 | 83.4 | 69.5 | 125.1 | 107.7 | 104.2 | 69.5 |
| 6.9 | 87.5° | 10.4 | 17.4 | 31.3 | 38.2 | 27.8 | 27.8 | 34.7 | 41.7 | 34.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
10200.5
9946.9
10016.4
10075.5
10162.3
10339.5
10638.3
11030.9
11461.7
11823.0
12014.1
11795.3
11576.4
11371.4
11156.0
10905.8
10634.8
10343.0
10023.4
9609.9
9061.0
8571.1
8084.7
6840.9
5489.4
3880.8
2001.2
1191.7
927.6
757.4
566.3
437.8
344.0
128.5
69.5
34.7
0.0

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