

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: P636875

Luminaire Tested: **IFLD-L-SA7C-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636875
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20685.6 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

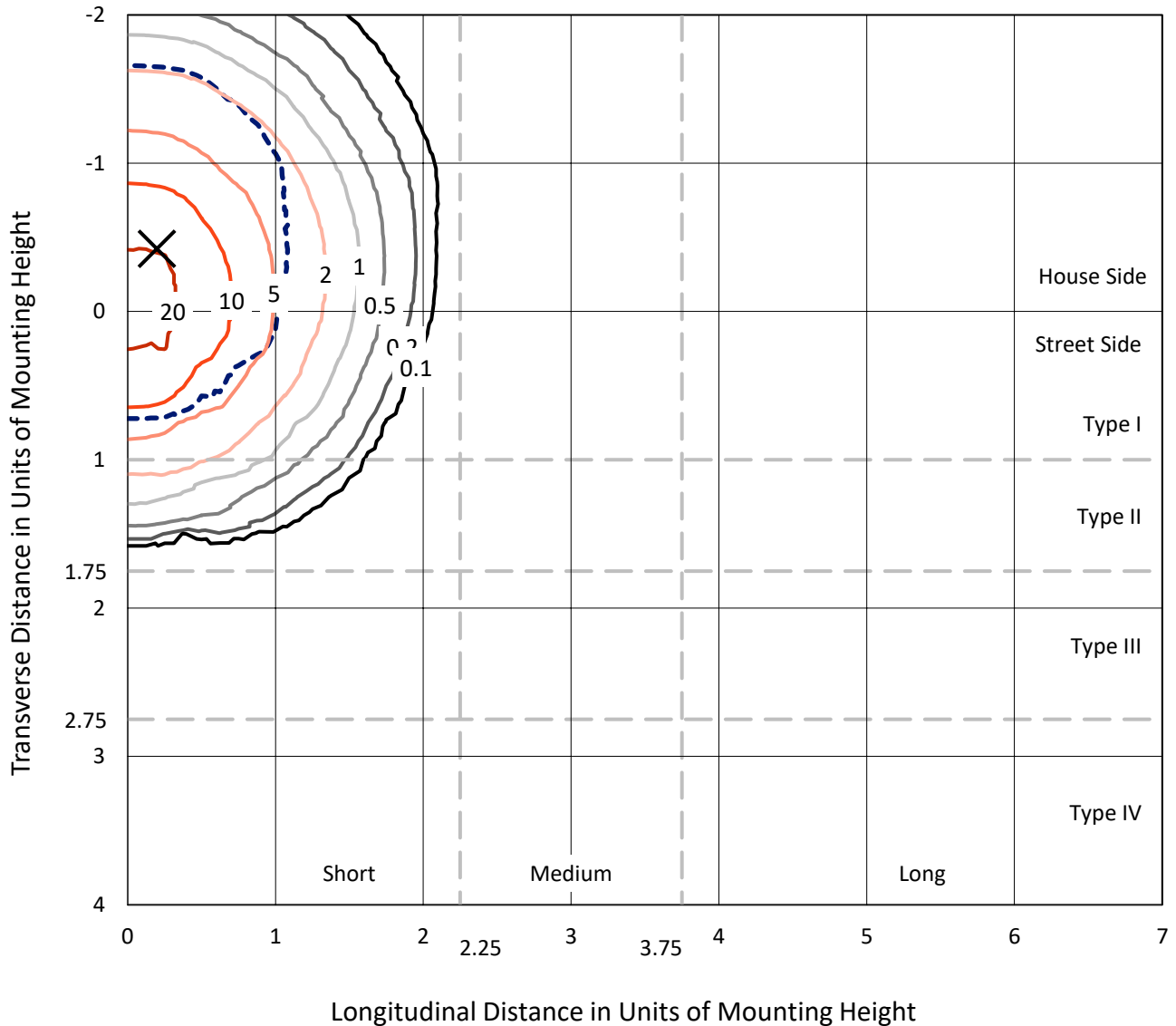
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

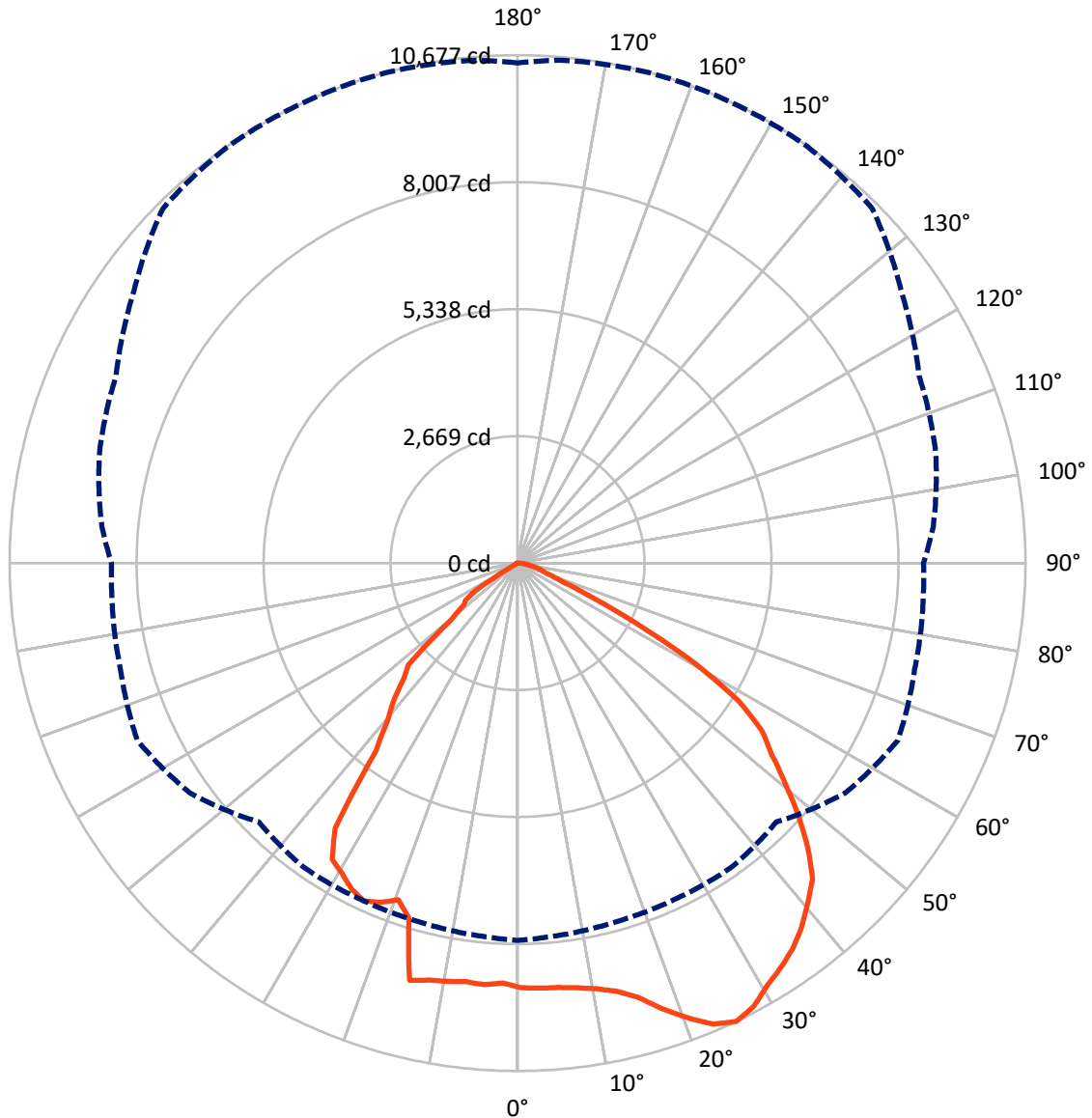
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.3 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 | 12806.5 | 0.0 | 12806.5 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 7879.1 | 0.0 | 7879.1 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 20685.6 | 0.0 | 20685.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 856.3 | 4.1 |
| 10°-20° | 2614.6 | 12.6 |
| 20°-30° | 4133.5 | 20.0 |
| 30°-40° | 4669.2 | 22.6 |
| 40°-50° | 4372.8 | 21.1 |
| 50°-60° | 3014.7 | 14.6 |
| 60°-70° | 810.0 | 3.9 |
| 70°-80° | 168.8 | 0.8 |
| 80°-90° | 45.7 | 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° | 20685.6 | 100.0 |
| 0°-180° | 20685.6 | 100.0 |



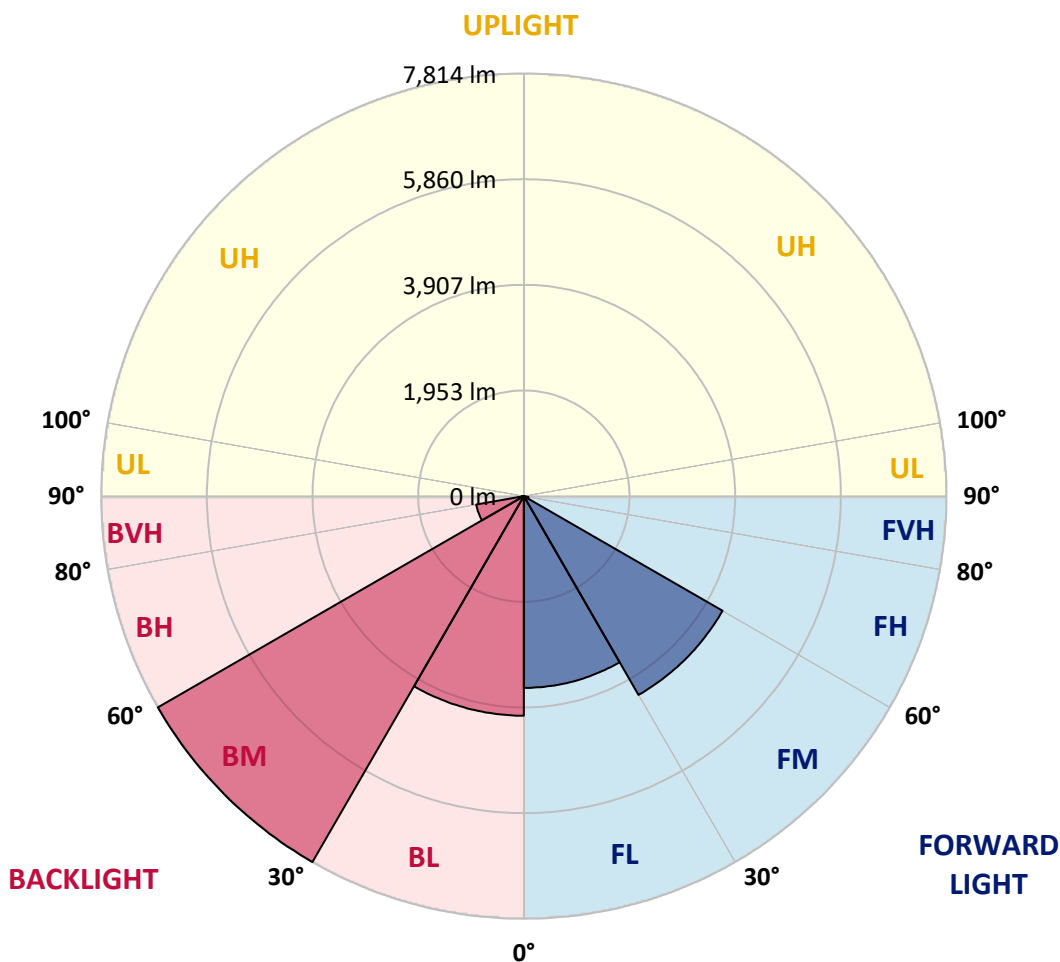
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3544.9 | 17.1 | | | |
| FM (30°-60°) | 4243.1 | 20.5 | | | |
| FH (60°-80°) | 85.0 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 6.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 4059.6 | 19.6 | B4/5000 | | |
| BM (30°-60°) | 7813.7 | 37.8 | B4/8500 | | |
| BH (60°-80°) | 893.7 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 39.5 | 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° | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 |
| 2.5° | 8965.0 | 8907.2 | 8852.5 | 8834.3 | 8910.3 | 8992.3 | 8940.7 | 8943.7 | 8925.5 | 8958.9 |
| 5° | 9031.9 | 8952.8 | 8916.3 | 8889.0 | 8901.1 | 8986.3 | 8913.3 | 8940.7 | 8910.3 | 8949.8 |
| 7.5° | 9007.5 | 8952.8 | 8916.3 | 8864.7 | 8904.2 | 9004.5 | 8934.6 | 8937.6 | 8922.4 | 8958.9 |
| 10° | 8992.3 | 8952.8 | 8907.2 | 8913.3 | 8958.9 | 9044.0 | 8989.3 | 9019.7 | 8998.4 | 9019.7 |
| 12.5° | 9028.8 | 8986.3 | 8961.9 | 8961.9 | 9001.5 | 9098.7 | 9071.4 | 9098.7 | 9089.6 | 9107.9 |
| 15° | 8685.3 | 8724.8 | 8955.9 | 9059.2 | 9138.3 | 9235.5 | 9223.4 | 9250.7 | 9256.8 | 9284.2 |
| 17.5° | 7326.4 | 7286.9 | 7268.7 | 7800.7 | 9214.3 | 9515.2 | 9506.1 | 9503.1 | 9472.7 | 9451.4 |
| 20° | 7505.8 | 7490.6 | 7469.3 | 7508.8 | 7666.9 | 9661.1 | 9721.9 | 9348.0 | 9238.6 | 9229.5 |
| 22.5° | 7791.5 | 7767.2 | 7688.2 | 7691.2 | 7739.9 | 8399.5 | 9421.0 | 9080.5 | 9044.0 | 9022.7 |
| 25° | 7931.4 | 7882.7 | 7818.9 | 7800.7 | 7815.9 | 7694.3 | 8414.7 | 8819.1 | 8639.7 | 8557.6 |
| 27.5° | 7685.1 | 7688.2 | 7636.5 | 7685.1 | 7627.4 | 7080.2 | 6773.1 | 8308.3 | 8302.3 | 8265.8 |
| 30° | 7499.7 | 7490.6 | 7429.8 | 7490.6 | 7092.3 | 6481.3 | 6350.6 | 7749.0 | 7685.1 | 7636.5 |
| 32.5° | 6931.2 | 6937.3 | 7113.6 | 7350.7 | 6697.1 | 6213.8 | 5818.6 | 6922.1 | 7527.1 | 7499.7 |
| 35° | 4958.2 | 4970.4 | 5596.6 | 6767.1 | 6098.3 | 5681.8 | 5651.4 | 5982.7 | 7277.8 | 7289.9 |
| 37.5° | 4772.8 | 4772.8 | 4757.6 | 4949.1 | 5627.0 | 5465.9 | 5526.7 | 5493.3 | 6666.7 | 6697.1 |
| 40° | 4639.0 | 4611.7 | 4590.4 | 4289.4 | 3912.5 | 5313.9 | 5356.5 | 5204.5 | 6301.9 | 6308.0 |
| 42.5° | 4477.9 | 4447.5 | 4453.6 | 3897.3 | 3502.1 | 4937.0 | 4818.4 | 4614.7 | 5693.9 | 5700.0 |
| 45° | 4183.0 | 4234.7 | 4271.2 | 3410.9 | 3380.5 | 3526.4 | 4444.5 | 4316.8 | 5283.5 | 5396.0 |
| 47.5° | 2128.0 | 2173.6 | 3334.9 | 3137.3 | 3207.2 | 3134.2 | 3754.4 | 3757.4 | 4395.8 | 4769.8 |
| 50° | 1930.4 | 1918.2 | 1921.3 | 1830.1 | 2961.0 | 2535.4 | 2714.7 | 3444.3 | 3520.3 | 4055.4 |
| 52.5° | 1799.7 | 1796.6 | 1611.2 | 1431.8 | 1860.5 | 2231.4 | 1969.9 | 2492.8 | 2617.4 | 3435.2 |
| 55° | 1331.5 | 1428.8 | 1270.7 | 1346.7 | 1164.3 | 1787.5 | 1778.4 | 2249.6 | 2292.2 | 2754.2 |
| 57.5° | 12.2 | 15.2 | 36.5 | 1024.5 | 805.6 | 893.8 | 1228.2 | 1535.2 | 1611.2 | 2146.2 |
| 60° | 3.0 | 6.1 | 15.2 | 30.4 | 522.9 | 550.2 | 820.8 | 887.7 | 1000.2 | 1279.8 |
| 62.5° | 0.0 | 0.0 | 6.1 | 15.2 | 27.4 | 225.0 | 261.4 | 285.8 | 440.8 | 653.6 |
| 65° | 0.0 | 0.0 | 3.0 | 9.1 | 15.2 | 36.5 | 63.8 | 133.8 | 191.5 | 237.1 |
| 67.5° | 0.0 | 0.0 | 3.0 | 6.1 | 12.2 | 18.2 | 36.5 | 51.7 | 82.1 | 139.8 |
| 70° | 0.0 | 0.0 | 3.0 | 6.1 | 9.1 | 15.2 | 24.3 | 36.5 | 48.6 | 69.9 |
| 72.5° | 0.0 | 0.0 | 3.0 | 6.1 | 6.1 | 18.2 | 18.2 | 27.4 | 36.5 | 45.6 |
| 75° | 0.0 | 0.0 | 3.0 | 3.0 | 6.1 | 12.2 | 18.2 | 21.3 | 24.3 | 36.5 |
| 77.5° | 0.0 | 0.0 | 3.0 | 6.1 | 9.1 | 12.2 | 15.2 | 24.3 | 21.3 | 21.3 |
| 80° | 0.0 | 0.0 | 3.0 | 9.1 | 9.1 | 15.2 | 18.2 | 24.3 | 15.2 | 15.2 |
| 82.5° | 0.0 | 0.0 | 3.0 | 12.2 | 9.1 | 30.4 | 30.4 | 33.4 | 12.2 | 12.2 |
| 85° | 0.0 | 0.0 | 9.1 | 6.1 | 18.2 | 30.4 | 27.4 | 18.2 | 15.2 | 9.1 |
| 87.5° | 0.0 | 0.0 | 3.0 | 3.0 | 6.1 | 9.1 | 21.3 | 18.2 | 6.1 | 6.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P636875

CATALOG NUMBER: IFLD-L-SA7C-927-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 8925.5 | 0° | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 | 8925.5 |
| 8870.7 | 2.5° | 8992.3 | 8952.8 | 9034.9 | 9025.8 | 8986.3 | 8968.0 | 8946.7 | 8928.5 | 8794.7 |
| 8876.8 | 5° | 8995.4 | 8934.6 | 9034.9 | 9016.7 | 9010.6 | 8980.2 | 8961.9 | 8989.3 | 8867.7 |
| 8901.1 | 7.5° | 8995.4 | 8934.6 | 9044.0 | 9050.1 | 9041.0 | 9016.7 | 9013.6 | 9031.9 | 8931.5 |
| 8943.7 | 10° | 9056.2 | 9031.9 | 9123.1 | 9132.2 | 9120.0 | 9113.9 | 9098.7 | 9086.6 | 8980.2 |
| 9089.6 | 12.5° | 9183.9 | 9135.2 | 9238.6 | 9265.9 | 9256.8 | 9272.0 | 9235.5 | 9253.8 | 9144.3 |
| 9238.6 | 15° | 9338.9 | 9341.9 | 9421.0 | 9481.8 | 9475.7 | 9524.3 | 9469.6 | 9518.3 | 9439.2 |
| 9408.8 | 17.5° | 9576.0 | 9609.5 | 9721.9 | 9813.1 | 9846.6 | 9883.1 | 9846.6 | 9861.8 | 9749.3 |
| 9220.3 | 20° | 9326.7 | 9451.4 | 9992.5 | 10159.7 | 10229.6 | 10263.1 | 10202.3 | 10220.5 | 10108.0 |
| 8989.3 | 22.5° | 9101.8 | 9262.9 | 9743.2 | 10266.1 | 10481.9 | 10548.8 | 10527.5 | 10524.5 | 10481.9 |
| 8533.3 | 25° | 8770.4 | 9095.7 | 9311.5 | 9864.8 | 10542.7 | 10664.3 | 10676.5 | 10673.5 | 10609.6 |
| 8253.6 | 27.5° | 8363.1 | 8436.0 | 8995.4 | 9332.8 | 10117.1 | 10579.2 | 10561.0 | 10472.8 | 10387.7 |
| 7673.0 | 30° | 7843.2 | 8174.6 | 8426.9 | 8965.0 | 9566.9 | 10317.8 | 10317.8 | 10250.9 | 10162.7 |
| 7466.3 | 32.5° | 7578.7 | 8007.4 | 8241.5 | 8436.0 | 8949.8 | 10025.9 | 10147.5 | 10077.6 | 10007.7 |
| 7305.1 | 35° | 7438.9 | 7502.7 | 8049.9 | 8226.3 | 8661.0 | 9463.5 | 9956.0 | 9886.1 | 9834.4 |
| 6876.5 | 37.5° | 7131.9 | 7280.8 | 7536.2 | 8007.4 | 8141.1 | 9004.5 | 9700.7 | 9664.2 | 9603.4 |
| 6320.2 | 40° | 6447.9 | 6846.1 | 7238.3 | 7685.1 | 7825.0 | 8414.7 | 9390.6 | 9405.8 | 9323.7 |
| 5727.4 | 42.5° | 6043.5 | 6314.1 | 6928.2 | 7229.1 | 7606.1 | 8034.7 | 9089.6 | 9113.9 | 9056.2 |
| 5426.4 | 45° | 5569.3 | 5870.2 | 6301.9 | 6849.1 | 7362.9 | 7511.9 | 8557.6 | 8813.0 | 8764.3 |
| 4827.5 | 47.5° | 5134.6 | 5377.8 | 5906.7 | 6460.0 | 7028.5 | 7007.2 | 7946.6 | 8426.9 | 8360.0 |
| 4368.5 | 50° | 4517.4 | 4943.0 | 5192.3 | 5700.0 | 6548.2 | 6605.9 | 7296.0 | 7973.9 | 7919.2 |
| 3711.8 | 52.5° | 3809.1 | 4344.2 | 4821.4 | 5286.6 | 6061.8 | 6198.6 | 6691.1 | 7511.9 | 7475.4 |
| 2836.3 | 55° | 3328.8 | 3717.9 | 4256.0 | 4629.9 | 5472.0 | 5836.8 | 6238.1 | 7071.1 | 7052.8 |
| 2331.7 | 57.5° | 2368.2 | 3119.0 | 3562.9 | 4085.8 | 4529.6 | 5189.3 | 5487.2 | 6174.3 | 6004.0 |
| 1292.0 | 60° | 1605.1 | 1957.8 | 2498.9 | 3061.3 | 3359.2 | 4018.9 | 4295.5 | 4845.8 | 4800.2 |
| 772.2 | 62.5° | 848.2 | 1173.4 | 1559.5 | 1842.2 | 2058.1 | 2699.5 | 2815.0 | 3407.8 | 3392.6 |
| 310.1 | 65° | 373.9 | 495.5 | 845.1 | 991.0 | 1213.0 | 1510.9 | 1611.2 | 1824.0 | 1772.3 |
| 152.0 | 67.5° | 194.6 | 294.9 | 477.3 | 586.7 | 738.7 | 851.2 | 933.3 | 1000.2 | 1042.7 |
| 100.3 | 70° | 118.6 | 215.8 | 294.9 | 407.4 | 507.7 | 598.9 | 662.7 | 753.9 | 808.6 |
| 51.7 | 72.5° | 88.2 | 136.8 | 203.7 | 313.1 | 367.8 | 474.2 | 538.1 | 605.0 | 653.6 |
| 42.6 | 75° | 48.6 | 91.2 | 164.2 | 246.2 | 294.9 | 386.1 | 443.8 | 489.4 | 504.6 |
| 24.3 | 77.5° | 30.4 | 69.9 | 136.8 | 191.5 | 231.0 | 313.1 | 297.9 | 340.5 | 377.0 |
| 18.2 | 80° | 21.3 | 51.7 | 106.4 | 158.1 | 161.1 | 200.6 | 237.1 | 273.6 | 297.9 |
| 12.2 | 82.5° | 15.2 | 42.6 | 79.0 | 121.6 | 106.4 | 155.0 | 185.4 | 212.8 | 155.0 |
| 9.1 | 85° | 12.2 | 30.4 | 39.5 | 73.0 | 60.8 | 109.4 | 94.2 | 91.2 | 60.8 |
| 6.1 | 87.5° | 9.1 | 15.2 | 27.4 | 33.4 | 24.3 | 24.3 | 30.4 | 36.5 | 30.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
8925.5
8703.5
8764.3
8816.0
8892.0
9047.1
9308.5
9652.0
10029.0
10345.1
10512.3
10320.8
10129.3
9949.9
9761.5
9542.6
9305.5
9050.1
8770.4
8408.7
7928.3
7499.7
7074.1
5985.8
4803.2
3395.7
1751.0
1042.7
811.7
662.7
495.5
383.0
301.0
112.5
60.8
30.4
0.0

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