

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: P638299

Luminaire Tested: **IFLD-L-SA8A-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638299
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20937.2 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

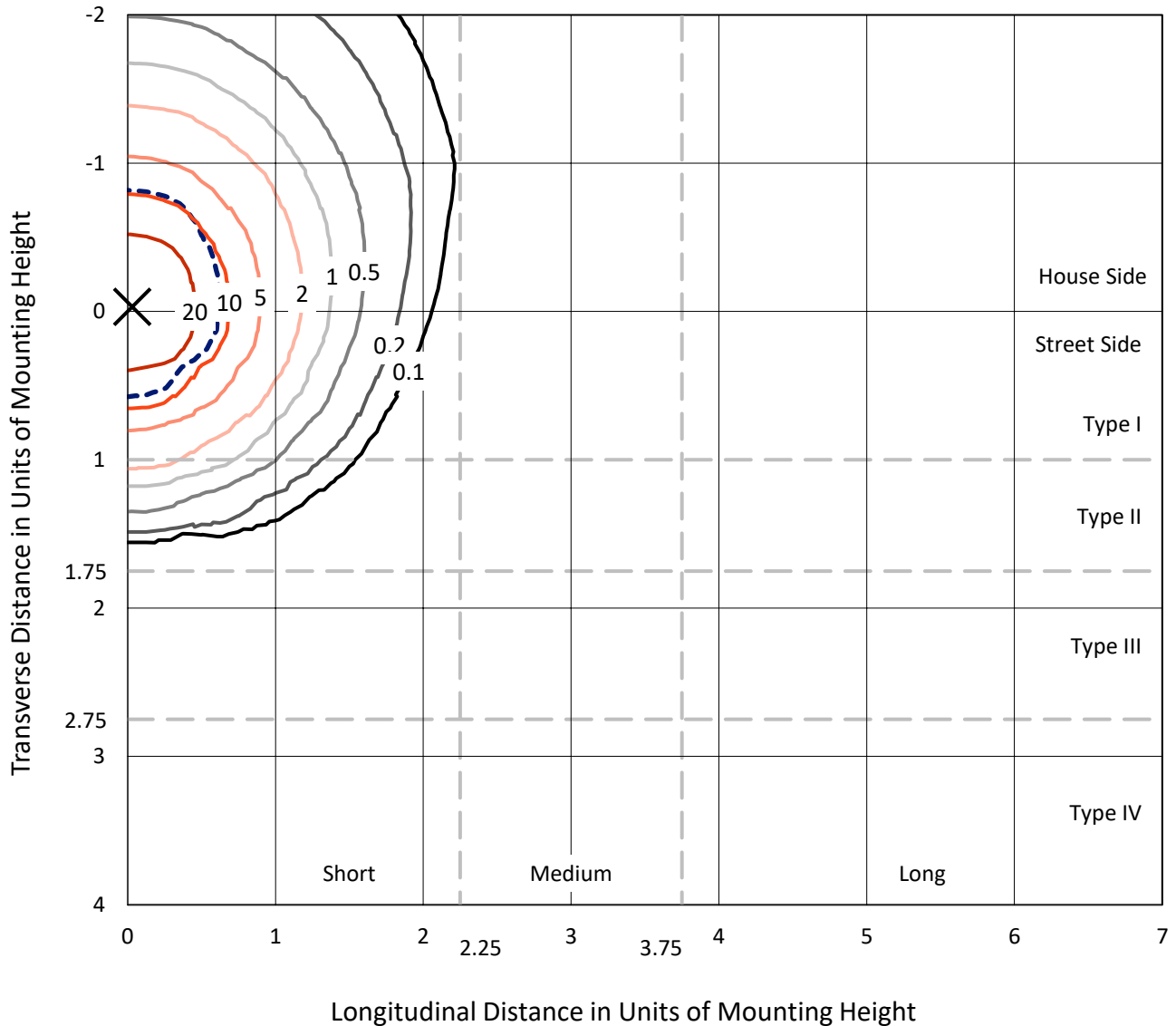
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

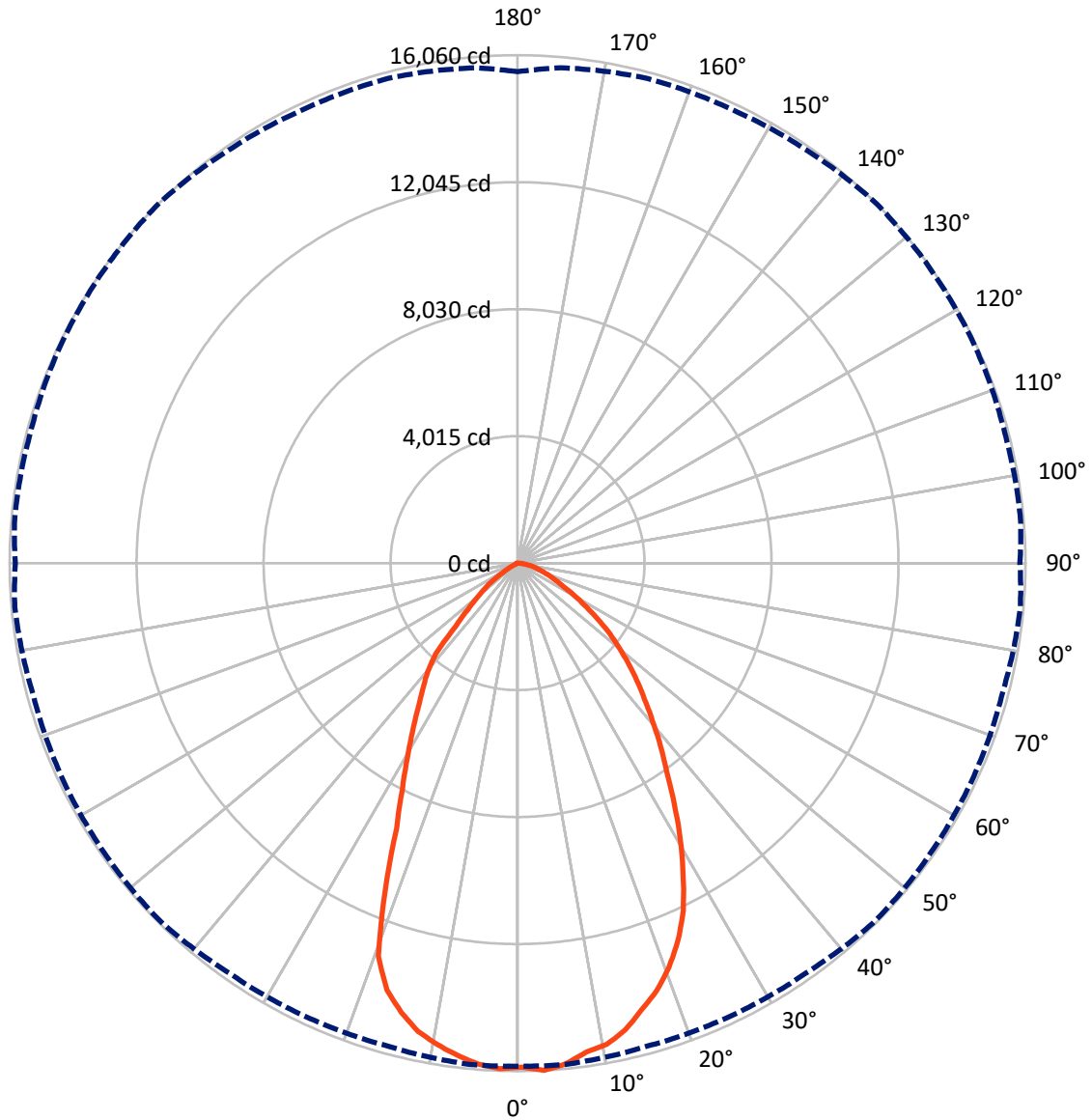
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12400.1 | 0.0 | 12400.1 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 8537.1 | 0.0 | 8537.1 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 20937.2 | 0.0 | 20937.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1494.3 | 7.1 |
| 10°-20° | 4007.0 | 19.1 |
| 20°-30° | 4886.8 | 23.3 |
| 30°-40° | 4461.6 | 21.3 |
| 40°-50° | 3224.3 | 15.4 |
| 50°-60° | 1760.5 | 8.4 |
| 60°-70° | 727.9 | 3.5 |
| 70°-80° | 294.8 | 1.4 |
| 80°-90° | 80.2 | 0.4 |
| 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° | 20937.2 | 100.0 |
| 0°-180° | 20937.2 | 100.0 |



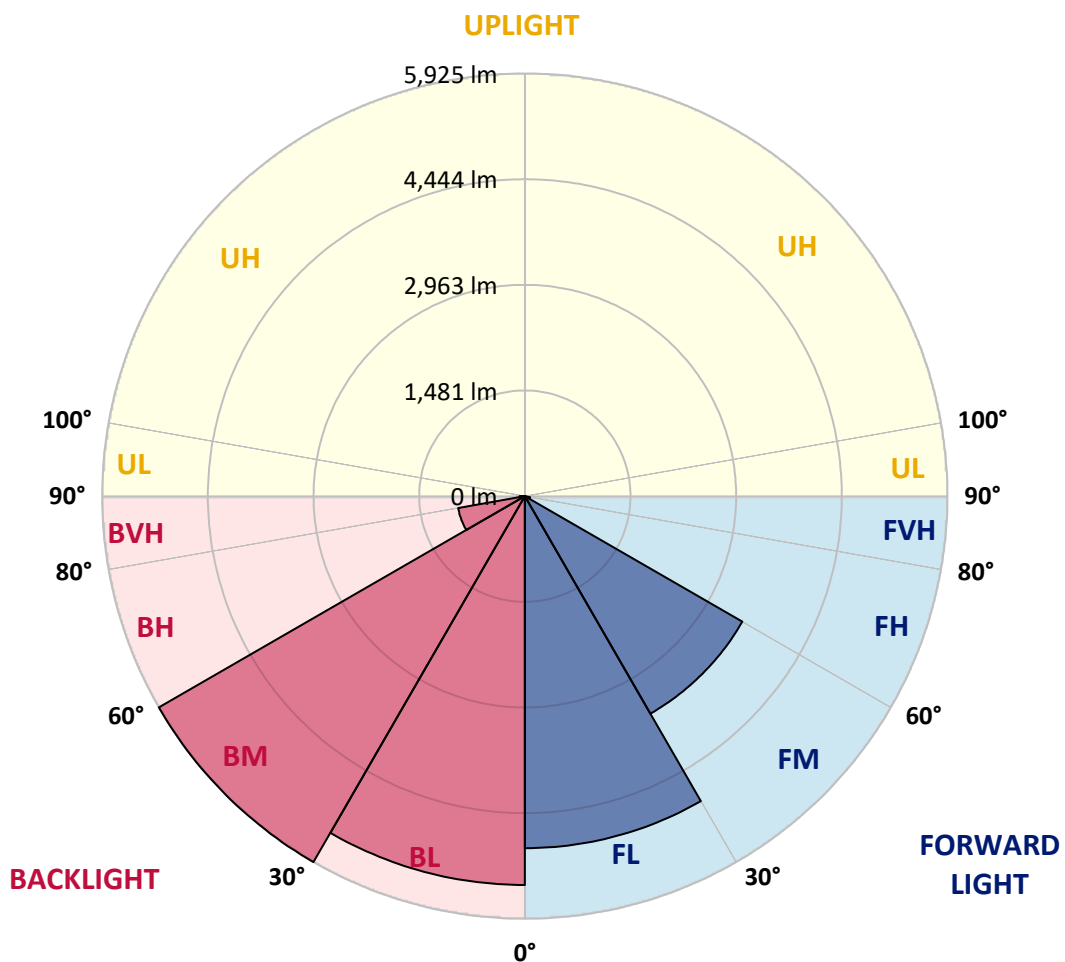
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4935.7 | 23.6 | | | |
| FM (30°-60°) | 3521.2 | 16.8 | | | |
| FH (60°-80°) | 73.8 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 6.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 5452.3 | 26.0 | B5 | | |
| BM (30°-60°) | 5925.0 | 28.3 | B4/8500 | | |
| BH (60°-80°) | 948.9 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 73.8 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 |
| 2.5° | 15903.7 | 15924.3 | 15812.3 | 15824.1 | 15844.7 | 15995.1 | 15956.7 | 15921.4 | 15871.2 | 15956.7 |
| 5° | 15883.0 | 15894.8 | 15776.9 | 15735.6 | 15753.3 | 15888.9 | 15765.1 | 15765.1 | 15753.3 | 15738.6 |
| 7.5° | 15723.8 | 15729.7 | 15638.3 | 15564.6 | 15611.8 | 15673.7 | 15582.3 | 15626.5 | 15561.6 | 15611.8 |
| 10° | 15485.0 | 15446.7 | 15337.6 | 15316.9 | 15370.0 | 15429.0 | 15367.1 | 15408.3 | 15349.4 | 15387.7 |
| 12.5° | 15134.1 | 15075.2 | 14986.7 | 14960.2 | 15051.6 | 15131.2 | 15081.1 | 15057.5 | 14980.8 | 15075.2 |
| 15° | 13780.8 | 13736.6 | 13937.1 | 14287.9 | 14603.4 | 14671.2 | 14618.2 | 14641.7 | 14482.5 | 14509.1 |
| 17.5° | 11342.5 | 11259.9 | 11475.2 | 12306.6 | 13491.9 | 14116.9 | 14069.8 | 13916.4 | 13680.6 | 13733.6 |
| 20° | 10307.6 | 10284.0 | 10260.4 | 10458.0 | 11286.5 | 13182.3 | 13247.2 | 12858.0 | 12521.8 | 12448.1 |
| 22.5° | 9723.8 | 9715.0 | 9691.4 | 9735.6 | 9953.8 | 11171.5 | 11914.5 | 11554.8 | 11330.7 | 11310.1 |
| 25° | 9190.2 | 9175.4 | 9104.7 | 9160.7 | 9160.7 | 9231.4 | 10183.8 | 10401.9 | 10204.4 | 10180.8 |
| 27.5° | 8647.7 | 8621.1 | 8609.3 | 8635.9 | 8500.2 | 8022.6 | 8264.4 | 9328.7 | 9225.5 | 9231.4 |
| 30° | 8060.9 | 8052.1 | 8019.6 | 8075.7 | 7657.0 | 7064.4 | 6911.0 | 8355.8 | 8376.4 | 8370.5 |
| 32.5° | 7188.2 | 7226.5 | 7373.9 | 7435.9 | 6745.9 | 6256.5 | 6000.0 | 7229.5 | 7651.1 | 7642.2 |
| 35° | 5221.6 | 5221.6 | 5702.2 | 6595.6 | 5911.5 | 5543.0 | 5404.4 | 6129.7 | 6934.6 | 6964.1 |
| 37.5° | 4292.9 | 4307.6 | 4402.0 | 4808.8 | 5100.7 | 4971.0 | 4929.7 | 5159.7 | 6014.7 | 6061.9 |
| 40° | 3862.4 | 3862.4 | 3862.4 | 3694.3 | 3685.5 | 4478.6 | 4455.0 | 4381.3 | 5195.1 | 5298.3 |
| 42.5° | 3470.3 | 3479.1 | 3485.0 | 3060.4 | 2824.6 | 3871.2 | 3818.2 | 3706.1 | 4460.9 | 4581.8 |
| 45° | 3066.3 | 3081.1 | 3098.8 | 2559.2 | 2456.0 | 2786.2 | 3231.4 | 3107.6 | 3735.6 | 3891.9 |
| 47.5° | 1872.2 | 1895.8 | 2296.8 | 2170.0 | 2181.8 | 2149.4 | 2635.9 | 2615.2 | 3063.4 | 3284.5 |
| 50° | 1264.9 | 1273.7 | 1312.0 | 1376.9 | 1872.2 | 1689.4 | 1866.3 | 2164.1 | 2326.3 | 2662.4 |
| 52.5° | 1061.4 | 1076.2 | 981.8 | 893.4 | 1229.5 | 1320.9 | 1303.2 | 1606.9 | 1671.7 | 2087.5 |
| 55° | 745.9 | 793.1 | 748.9 | 740.0 | 698.8 | 1026.0 | 987.7 | 1235.4 | 1276.7 | 1586.2 |
| 57.5° | 76.7 | 88.5 | 153.3 | 551.4 | 457.0 | 580.8 | 704.7 | 905.2 | 946.4 | 1170.5 |
| 60° | 5.9 | 5.9 | 14.7 | 76.7 | 333.2 | 347.9 | 486.5 | 557.2 | 636.9 | 816.7 |
| 62.5° | 0.0 | 2.9 | 5.9 | 11.8 | 53.1 | 185.7 | 244.7 | 291.9 | 383.3 | 527.8 |
| 65° | 0.0 | 0.0 | 2.9 | 8.8 | 11.8 | 70.8 | 94.3 | 153.3 | 209.3 | 327.3 |
| 67.5° | 0.0 | 0.0 | 2.9 | 5.9 | 8.8 | 17.7 | 32.4 | 56.0 | 112.0 | 185.7 |
| 70° | 0.0 | 0.0 | 2.9 | 5.9 | 8.8 | 14.7 | 23.6 | 35.4 | 50.1 | 100.2 |
| 72.5° | 0.0 | 0.0 | 2.9 | 2.9 | 5.9 | 14.7 | 17.7 | 23.6 | 35.4 | 50.1 |
| 75° | 0.0 | 0.0 | 2.9 | 2.9 | 8.8 | 17.7 | 14.7 | 17.7 | 23.6 | 32.4 |
| 77.5° | 0.0 | 0.0 | 2.9 | 5.9 | 8.8 | 17.7 | 14.7 | 17.7 | 17.7 | 20.6 |
| 80° | 0.0 | 0.0 | 2.9 | 5.9 | 11.8 | 20.6 | 17.7 | 17.7 | 14.7 | 14.7 |
| 82.5° | 0.0 | 0.0 | 2.9 | 8.8 | 11.8 | 26.5 | 26.5 | 23.6 | 11.8 | 8.8 |
| 85° | 0.0 | 0.0 | 5.9 | 11.8 | 17.7 | 29.5 | 29.5 | 23.6 | 8.8 | 5.9 |
| 87.5° | 0.0 | 0.0 | 5.9 | 8.8 | 14.7 | 20.6 | 29.5 | 23.6 | 8.8 | 2.9 |
| 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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CATALOG NUMBER: IFLD-L-SA8A-830-U-77-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15933.1 | 0° | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 | 15933.1 |
| 15883.0 | 2.5° | 15962.6 | 15944.9 | 16003.9 | 16027.5 | 16059.9 | 15936.1 | 15859.4 | 15862.4 | 15720.9 |
| 15703.2 | 5° | 15797.5 | 15800.5 | 15877.1 | 15871.2 | 15903.7 | 15835.8 | 15806.4 | 15756.2 | 15632.4 |
| 15476.1 | 7.5° | 15588.2 | 15561.6 | 15635.4 | 15691.4 | 15608.8 | 15656.0 | 15588.2 | 15611.8 | 15538.1 |
| 15275.7 | 10° | 15426.0 | 15364.1 | 15431.9 | 15470.2 | 15473.2 | 15426.0 | 15361.2 | 15299.2 | 15272.7 |
| 14963.1 | 12.5° | 15066.3 | 14986.7 | 15101.7 | 15154.8 | 15145.9 | 15054.5 | 14980.8 | 14995.6 | 14910.1 |
| 14414.7 | 15° | 14571.0 | 14573.9 | 14656.5 | 14706.6 | 14659.4 | 14638.8 | 14644.7 | 14609.3 | 14535.6 |
| 13657.0 | 17.5° | 13813.2 | 13857.5 | 14075.7 | 14196.5 | 14223.1 | 14181.8 | 14161.2 | 14119.9 | 14046.2 |
| 12448.1 | 20° | 12551.3 | 12816.7 | 13205.9 | 13580.3 | 13654.0 | 13642.2 | 13568.5 | 13550.8 | 13509.6 |
| 11251.1 | 22.5° | 11442.7 | 11640.3 | 12091.4 | 12675.2 | 12975.9 | 13005.4 | 12916.9 | 12890.4 | 12846.2 |
| 10180.8 | 25° | 10295.8 | 10508.1 | 10915.0 | 11548.9 | 12171.0 | 12297.8 | 12283.0 | 12203.4 | 12156.2 |
| 9231.4 | 27.5° | 9328.7 | 9541.0 | 9909.6 | 10481.6 | 11147.9 | 11554.8 | 11593.1 | 11466.3 | 11463.4 |
| 8385.2 | 30° | 8456.0 | 8747.9 | 9028.0 | 9493.8 | 10139.5 | 10749.9 | 10814.7 | 10726.3 | 10735.1 |
| 7609.8 | 32.5° | 7772.0 | 8013.7 | 8252.6 | 8565.1 | 9101.7 | 9812.3 | 10065.8 | 9983.3 | 9950.8 |
| 6964.1 | 35° | 7073.2 | 7238.3 | 7483.0 | 7769.0 | 8134.6 | 8839.3 | 9278.6 | 9216.7 | 9184.3 |
| 6091.4 | 37.5° | 6277.1 | 6560.2 | 6737.1 | 7058.5 | 7344.5 | 7904.7 | 8523.8 | 8515.0 | 8447.2 |
| 5348.4 | 40° | 5460.4 | 5758.2 | 6026.5 | 6350.9 | 6572.0 | 7017.2 | 7704.2 | 7701.2 | 7710.1 |
| 4578.9 | 42.5° | 4720.4 | 4994.6 | 5318.9 | 5672.7 | 5885.0 | 6209.3 | 6946.4 | 6987.7 | 7037.8 |
| 3945.0 | 45° | 4051.1 | 4298.8 | 4599.5 | 5030.0 | 5286.5 | 5472.2 | 6126.8 | 6315.5 | 6312.5 |
| 3378.9 | 47.5° | 3449.6 | 3682.5 | 3936.1 | 4354.8 | 4682.1 | 4850.1 | 5392.6 | 5660.9 | 5643.2 |
| 2771.5 | 50° | 2895.3 | 3101.7 | 3367.1 | 3670.8 | 4110.1 | 4257.5 | 4661.4 | 5015.2 | 4988.7 |
| 2208.4 | 52.5° | 2329.2 | 2615.2 | 2839.3 | 3116.5 | 3579.4 | 3723.8 | 4036.4 | 4381.3 | 4360.7 |
| 1657.0 | 55° | 1816.2 | 2093.4 | 2364.6 | 2603.4 | 2992.6 | 3207.9 | 3431.9 | 3785.7 | 3779.8 |
| 1297.3 | 57.5° | 1374.0 | 1677.6 | 1934.1 | 2161.2 | 2470.8 | 2736.1 | 2916.0 | 3237.3 | 3278.6 |
| 887.5 | 60° | 1017.2 | 1250.1 | 1527.3 | 1780.8 | 2025.5 | 2299.8 | 2420.6 | 2736.1 | 2753.8 |
| 607.4 | 62.5° | 692.9 | 949.4 | 1220.6 | 1450.6 | 1633.4 | 1916.5 | 2025.5 | 2285.0 | 2317.4 |
| 389.2 | 65° | 480.6 | 645.7 | 955.3 | 1120.4 | 1344.5 | 1586.2 | 1695.3 | 1901.7 | 1966.6 |
| 224.1 | 67.5° | 318.4 | 460.0 | 745.9 | 896.3 | 1117.4 | 1282.6 | 1421.1 | 1589.2 | 1659.9 |
| 141.5 | 70° | 174.0 | 339.1 | 533.7 | 707.6 | 899.3 | 1058.5 | 1194.1 | 1329.7 | 1391.6 |
| 64.9 | 72.5° | 117.9 | 227.0 | 371.5 | 560.2 | 725.3 | 881.6 | 1002.5 | 1102.7 | 1105.6 |
| 38.3 | 75° | 59.0 | 153.3 | 283.0 | 433.4 | 566.1 | 719.4 | 828.5 | 887.5 | 816.7 |
| 23.6 | 77.5° | 35.4 | 112.0 | 230.0 | 347.9 | 460.0 | 580.8 | 642.8 | 675.2 | 560.2 |
| 17.7 | 80° | 20.6 | 79.6 | 179.9 | 277.1 | 318.4 | 427.5 | 486.5 | 495.3 | 374.4 |
| 11.8 | 82.5° | 14.7 | 59.0 | 141.5 | 203.4 | 194.6 | 300.7 | 365.6 | 353.8 | 238.8 |
| 8.8 | 85° | 8.8 | 41.3 | 88.5 | 126.8 | 117.9 | 197.5 | 212.3 | 218.2 | 138.6 |
| 5.9 | 87.5° | 5.9 | 23.6 | 47.2 | 67.8 | 56.0 | 85.5 | 85.5 | 103.2 | 67.8 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
15933.1
15538.1
15602.9
15414.2
15154.8
14836.3
14461.9
14013.7
13415.2
12834.4
12106.1
11457.5
10690.9
9953.8
9140.0
8503.2
7710.1
7011.3
6318.4
5649.1
5012.3
4404.9
3794.6
3260.9
2780.3
2323.3
1951.8
1651.1
1368.1
1079.1
763.6
539.6
350.9
221.1
126.8
59.0
0.0

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