

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: P636792

Luminaire Tested: **IFLD-L-SA8B-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636792
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20786.4 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

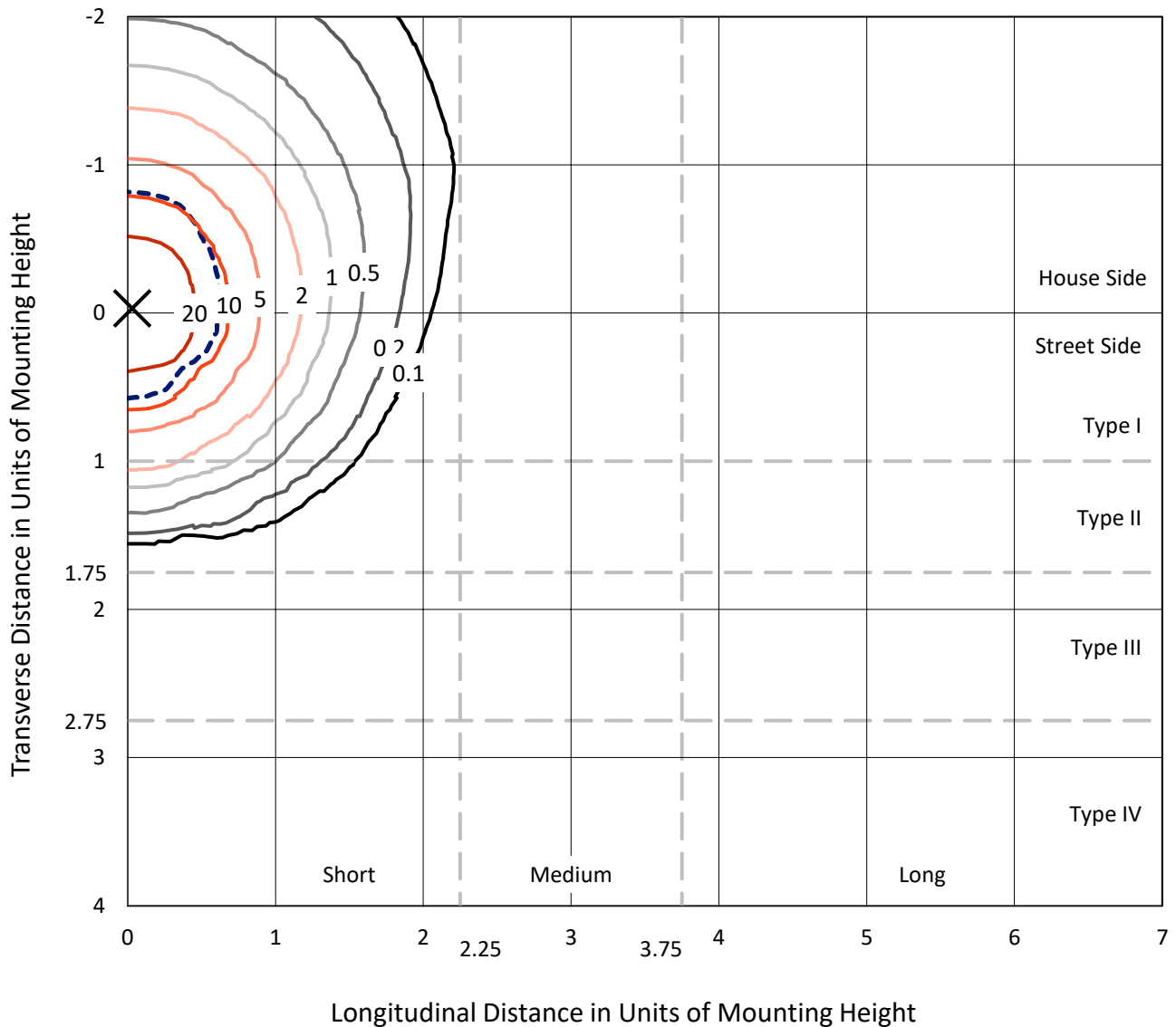
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

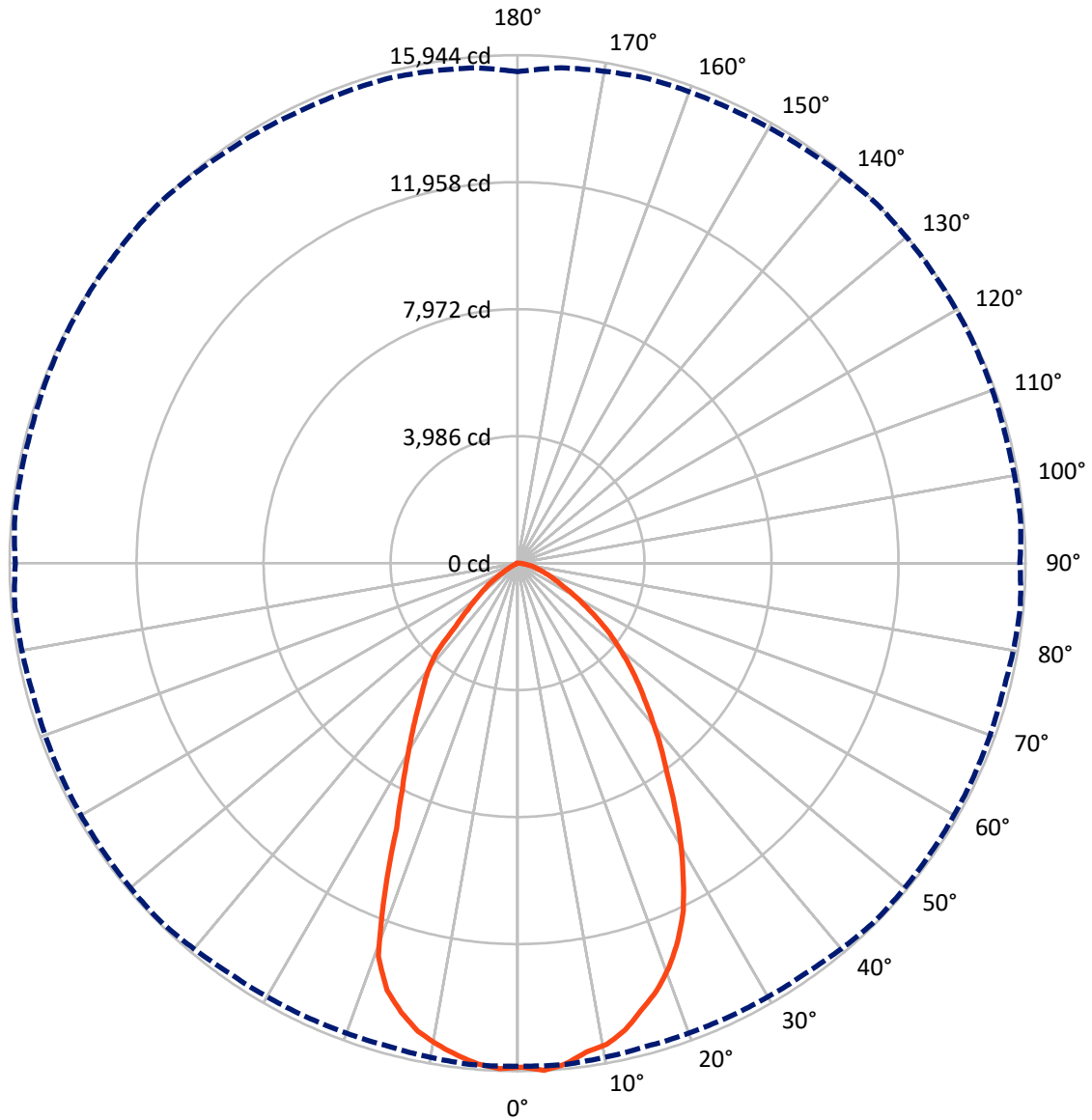
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.5 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 | 12310.8 | 0.0 | 12310.8 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 8475.6 | 0.0 | 8475.6 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 20786.4 | 0.0 | 20786.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1483.5 | 7.1 |
| 10°-20° | 3978.1 | 19.1 |
| 20°-30° | 4851.5 | 23.3 |
| 30°-40° | 4429.4 | 21.3 |
| 40°-50° | 3201.0 | 15.4 |
| 50°-60° | 1747.8 | 8.4 |
| 60°-70° | 722.7 | 3.5 |
| 70°-80° | 292.7 | 1.4 |
| 80°-90° | 79.6 | 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° | 20786.4 | 100.0 |
| 0°-180° | 20786.4 | 100.0 |



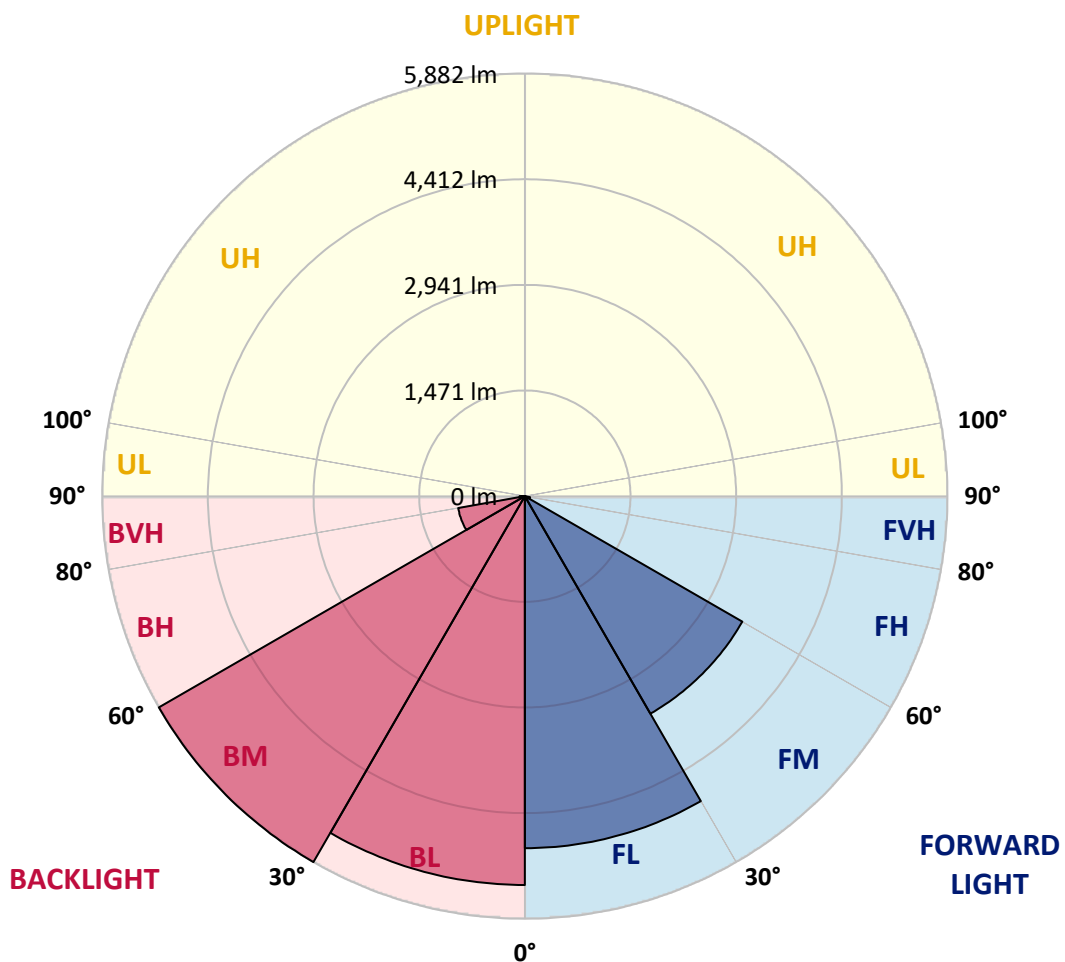
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4900.1 | 23.6 | | | |
| FM (30°-60°) | 3495.9 | 16.8 | | | |
| FH (60°-80°) | 73.3 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 6.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 5413.1 | 26.0 | B5 | | |
| BM (30°-60°) | 5882.4 | 28.3 | B4/8500 | | |
| BH (60°-80°) | 942.1 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 73.2 | 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° | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 |
| 2.5° | 15789.1 | 15809.6 | 15698.4 | 15710.1 | 15730.6 | 15879.8 | 15841.8 | 15806.7 | 15756.9 | 15841.8 |
| 5° | 15768.6 | 15780.3 | 15663.2 | 15622.3 | 15639.8 | 15774.5 | 15651.5 | 15651.5 | 15639.8 | 15625.2 |
| 7.5° | 15610.5 | 15616.4 | 15525.7 | 15452.5 | 15499.3 | 15560.8 | 15470.0 | 15513.9 | 15449.5 | 15499.3 |
| 10° | 15373.4 | 15335.4 | 15227.1 | 15206.6 | 15259.3 | 15317.8 | 15256.4 | 15297.3 | 15238.8 | 15276.8 |
| 12.5° | 15025.1 | 14966.6 | 14878.8 | 14852.4 | 14943.1 | 15022.2 | 14972.4 | 14949.0 | 14872.9 | 14966.6 |
| 15° | 13681.5 | 13637.6 | 13836.7 | 14185.0 | 14498.2 | 14565.5 | 14512.9 | 14536.3 | 14378.2 | 14404.6 |
| 17.5° | 11260.8 | 11178.8 | 11392.5 | 12218.0 | 13394.7 | 14015.2 | 13968.4 | 13816.2 | 13582.0 | 13634.7 |
| 20° | 10233.3 | 10209.9 | 10186.5 | 10382.6 | 11205.2 | 13087.3 | 13151.7 | 12765.3 | 12431.6 | 12358.5 |
| 22.5° | 9653.8 | 9645.0 | 9621.6 | 9665.5 | 9882.1 | 11091.0 | 11828.7 | 11471.5 | 11249.1 | 11228.6 |
| 25° | 9124.0 | 9109.3 | 9039.1 | 9094.7 | 9094.7 | 9164.9 | 10110.4 | 10327.0 | 10130.9 | 10107.5 |
| 27.5° | 8585.4 | 8559.0 | 8547.3 | 8573.7 | 8439.0 | 7964.8 | 8204.8 | 9261.5 | 9159.1 | 9164.9 |
| 30° | 8002.9 | 7994.1 | 7961.9 | 8017.5 | 7601.8 | 7013.5 | 6861.3 | 8295.6 | 8316.1 | 8310.2 |
| 32.5° | 7136.4 | 7174.5 | 7320.8 | 7382.3 | 6697.3 | 6211.4 | 5956.8 | 7177.4 | 7596.0 | 7587.2 |
| 35° | 5184.0 | 5184.0 | 5661.1 | 6548.1 | 5869.0 | 5503.1 | 5365.5 | 6085.6 | 6884.7 | 6914.0 |
| 37.5° | 4261.9 | 4276.6 | 4370.2 | 4774.2 | 5064.0 | 4935.2 | 4894.2 | 5122.5 | 5971.4 | 6018.2 |
| 40° | 3834.6 | 3834.6 | 3834.6 | 3667.7 | 3658.9 | 4446.4 | 4422.9 | 4349.8 | 5157.7 | 5260.1 |
| 42.5° | 3445.3 | 3454.0 | 3459.9 | 3038.4 | 2804.2 | 3843.4 | 3790.7 | 3679.4 | 4428.8 | 4548.8 |
| 45° | 3044.2 | 3058.9 | 3076.4 | 2540.8 | 2438.3 | 2766.2 | 3208.2 | 3085.2 | 3708.7 | 3863.9 |
| 47.5° | 1858.7 | 1882.2 | 2280.3 | 2154.4 | 2166.1 | 2133.9 | 2616.9 | 2596.4 | 3041.3 | 3260.9 |
| 50° | 1255.8 | 1264.5 | 1302.6 | 1367.0 | 1858.7 | 1677.3 | 1852.9 | 2148.5 | 2309.5 | 2643.2 |
| 52.5° | 1053.8 | 1068.4 | 974.7 | 886.9 | 1220.6 | 1311.4 | 1293.8 | 1595.3 | 1659.7 | 2072.4 |
| 55° | 740.6 | 787.4 | 743.5 | 734.7 | 693.7 | 1018.7 | 980.6 | 1226.5 | 1267.5 | 1574.8 |
| 57.5° | 76.1 | 87.8 | 152.2 | 547.4 | 453.7 | 576.7 | 699.6 | 898.6 | 939.6 | 1162.1 |
| 60° | 5.9 | 5.9 | 14.6 | 76.1 | 330.8 | 345.4 | 483.0 | 553.2 | 632.3 | 810.8 |
| 62.5° | 0.0 | 2.9 | 5.9 | 11.7 | 52.7 | 184.4 | 243.0 | 289.8 | 380.5 | 524.0 |
| 65° | 0.0 | 0.0 | 2.9 | 8.8 | 11.7 | 70.3 | 93.7 | 152.2 | 207.8 | 324.9 |
| 67.5° | 0.0 | 0.0 | 2.9 | 5.9 | 8.8 | 17.6 | 32.2 | 55.6 | 111.2 | 184.4 |
| 70° | 0.0 | 0.0 | 2.9 | 5.9 | 8.8 | 14.6 | 23.4 | 35.1 | 49.8 | 99.5 |
| 72.5° | 0.0 | 0.0 | 2.9 | 2.9 | 5.9 | 14.6 | 17.6 | 23.4 | 35.1 | 49.8 |
| 75° | 0.0 | 0.0 | 2.9 | 2.9 | 8.8 | 17.6 | 14.6 | 17.6 | 23.4 | 32.2 |
| 77.5° | 0.0 | 0.0 | 2.9 | 5.9 | 8.8 | 17.6 | 14.6 | 17.6 | 17.6 | 20.5 |
| 80° | 0.0 | 0.0 | 2.9 | 5.9 | 11.7 | 20.5 | 17.6 | 17.6 | 14.6 | 14.6 |
| 82.5° | 0.0 | 0.0 | 2.9 | 8.8 | 11.7 | 26.3 | 26.3 | 23.4 | 11.7 | 8.8 |
| 85° | 0.0 | 0.0 | 5.9 | 11.7 | 17.6 | 29.3 | 29.3 | 23.4 | 8.8 | 5.9 |
| 87.5° | 0.0 | 0.0 | 5.9 | 8.8 | 14.6 | 20.5 | 29.3 | 23.4 | 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 |



REPORT NUMBER: P636792

CATALOG NUMBER: IFLD-L-SA8B-935-U-77-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15818.4 | 0° | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 | 15818.4 |
| 15768.6 | 2.5° | 15847.6 | 15830.1 | 15888.6 | 15912.0 | 15944.2 | 15821.3 | 15745.2 | 15748.1 | 15607.6 |
| 15590.1 | 5° | 15683.7 | 15686.6 | 15762.8 | 15756.9 | 15789.1 | 15721.8 | 15692.5 | 15642.7 | 15519.8 |
| 15364.7 | 7.5° | 15475.9 | 15449.5 | 15522.7 | 15578.3 | 15496.4 | 15543.2 | 15475.9 | 15499.3 | 15426.1 |
| 15165.6 | 10° | 15314.9 | 15253.4 | 15320.8 | 15358.8 | 15361.7 | 15314.9 | 15250.5 | 15189.0 | 15162.7 |
| 14855.3 | 12.5° | 14957.8 | 14878.8 | 14992.9 | 15045.6 | 15036.8 | 14946.1 | 14872.9 | 14887.5 | 14802.6 |
| 14310.9 | 15° | 14466.0 | 14468.9 | 14550.9 | 14600.7 | 14553.8 | 14533.3 | 14539.2 | 14504.1 | 14430.9 |
| 13558.6 | 17.5° | 13713.7 | 13757.6 | 13974.3 | 14094.3 | 14120.6 | 14079.6 | 14059.1 | 14018.2 | 13945.0 |
| 12358.5 | 20° | 12460.9 | 12724.4 | 13110.7 | 13482.5 | 13555.7 | 13544.0 | 13470.8 | 13453.2 | 13412.2 |
| 11170.0 | 22.5° | 11360.3 | 11556.4 | 12004.3 | 12583.9 | 12882.4 | 12911.7 | 12823.9 | 12797.5 | 12753.6 |
| 10107.5 | 25° | 10221.6 | 10432.4 | 10836.3 | 11465.7 | 12083.3 | 12209.2 | 12194.5 | 12115.5 | 12068.7 |
| 9164.9 | 27.5° | 9261.5 | 9472.3 | 9838.2 | 10406.1 | 11067.6 | 11471.5 | 11509.6 | 11383.7 | 11380.8 |
| 8324.8 | 30° | 8395.1 | 8684.9 | 8963.0 | 9425.5 | 10066.5 | 10672.4 | 10736.8 | 10649.0 | 10657.8 |
| 7555.0 | 32.5° | 7716.0 | 7956.0 | 8193.1 | 8503.4 | 9036.1 | 9741.6 | 9993.3 | 9911.4 | 9879.2 |
| 6914.0 | 35° | 7022.3 | 7186.2 | 7429.1 | 7713.1 | 8076.0 | 8775.6 | 9211.8 | 9150.3 | 9118.1 |
| 6047.5 | 37.5° | 6231.9 | 6512.9 | 6688.6 | 7007.6 | 7291.6 | 7847.7 | 8462.4 | 8453.6 | 8386.3 |
| 5309.9 | 40° | 5421.1 | 5716.7 | 5983.1 | 6305.1 | 6524.6 | 6966.6 | 7648.7 | 7645.7 | 7654.5 |
| 4545.9 | 42.5° | 4686.4 | 4958.6 | 5280.6 | 5631.9 | 5842.6 | 6164.6 | 6896.4 | 6937.4 | 6987.1 |
| 3916.5 | 45° | 4021.9 | 4267.8 | 4566.4 | 4993.7 | 5248.4 | 5432.8 | 6082.6 | 6270.0 | 6267.0 |
| 3354.5 | 47.5° | 3424.8 | 3656.0 | 3907.8 | 4323.4 | 4648.3 | 4815.2 | 5353.8 | 5620.1 | 5602.6 |
| 2751.5 | 50° | 2874.5 | 3079.4 | 3342.8 | 3644.3 | 4080.5 | 4226.8 | 4627.8 | 4979.1 | 4952.8 |
| 2192.4 | 52.5° | 2312.5 | 2596.4 | 2818.9 | 3094.0 | 3553.6 | 3697.0 | 4007.3 | 4349.8 | 4329.3 |
| 1645.1 | 55° | 1803.1 | 2078.3 | 2347.6 | 2584.7 | 2971.1 | 3184.7 | 3407.2 | 3758.5 | 3752.6 |
| 1288.0 | 57.5° | 1364.1 | 1665.6 | 1920.2 | 2145.6 | 2453.0 | 2716.4 | 2895.0 | 3214.0 | 3255.0 |
| 881.1 | 60° | 1009.9 | 1241.1 | 1516.3 | 1768.0 | 2011.0 | 2283.2 | 2403.2 | 2716.4 | 2734.0 |
| 603.0 | 62.5° | 687.9 | 942.5 | 1211.8 | 1440.2 | 1621.6 | 1902.7 | 2011.0 | 2268.5 | 2300.7 |
| 386.4 | 65° | 477.1 | 641.0 | 948.4 | 1112.3 | 1334.8 | 1574.8 | 1683.1 | 1888.0 | 1952.4 |
| 222.5 | 67.5° | 316.1 | 456.6 | 740.6 | 889.9 | 1109.4 | 1273.3 | 1410.9 | 1577.7 | 1648.0 |
| 140.5 | 70° | 172.7 | 336.6 | 529.8 | 702.5 | 892.8 | 1050.9 | 1185.5 | 1320.1 | 1381.6 |
| 64.4 | 72.5° | 117.1 | 225.4 | 368.8 | 556.2 | 720.1 | 875.2 | 995.2 | 1094.8 | 1097.7 |
| 38.1 | 75° | 58.5 | 152.2 | 281.0 | 430.3 | 562.0 | 714.2 | 822.5 | 881.1 | 810.8 |
| 23.4 | 77.5° | 35.1 | 111.2 | 228.3 | 345.4 | 456.6 | 576.7 | 638.1 | 670.3 | 556.2 |
| 17.6 | 80° | 20.5 | 79.0 | 178.6 | 275.2 | 316.1 | 424.4 | 483.0 | 491.8 | 371.7 |
| 11.7 | 82.5° | 14.6 | 58.5 | 140.5 | 202.0 | 193.2 | 298.6 | 363.0 | 351.3 | 237.1 |
| 8.8 | 85° | 8.8 | 41.0 | 87.8 | 125.9 | 117.1 | 196.1 | 210.8 | 216.6 | 137.6 |
| 5.9 | 87.5° | 5.9 | 23.4 | 46.8 | 67.3 | 55.6 | 84.9 | 84.9 | 102.5 | 67.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
15818.4
15426.1
15490.5
15303.2
15045.6
14729.5
14357.7
13912.8
13318.6
12741.9
12018.9
11374.9
10613.9
9882.1
9074.2
8441.9
7654.5
6960.8
6272.9
5608.4
4976.2
4373.2
3767.3
3237.4
2760.3
2306.6
1937.8
1639.2
1358.2
1071.3
758.1
535.7
348.3
219.5
125.9
58.5
0.0

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