

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: P477949

Luminaire Tested: **IFLD-L-SA7C-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477949
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

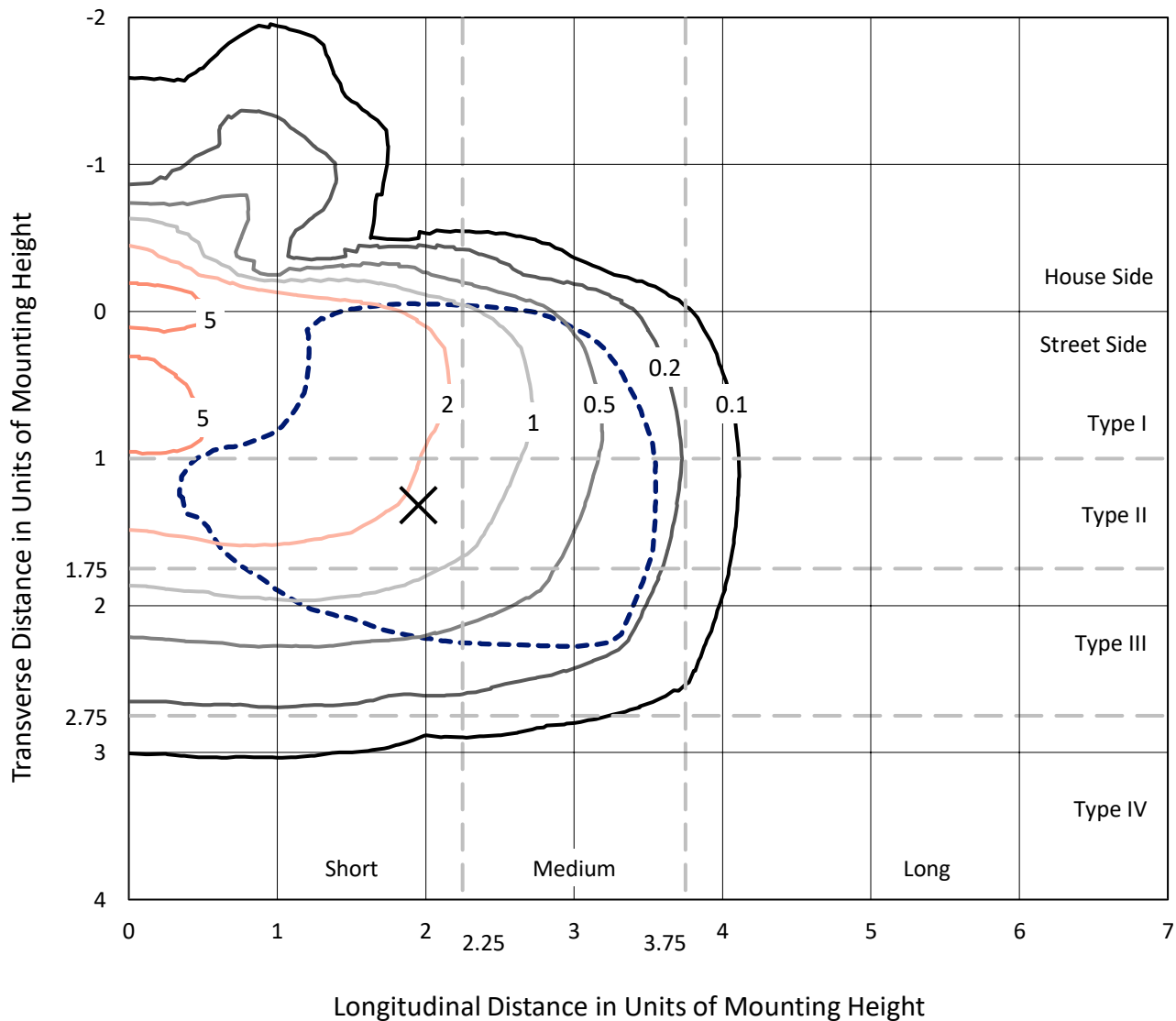
Lumens per Lamp: N/A
Luminaire Lumens: 34601.7 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

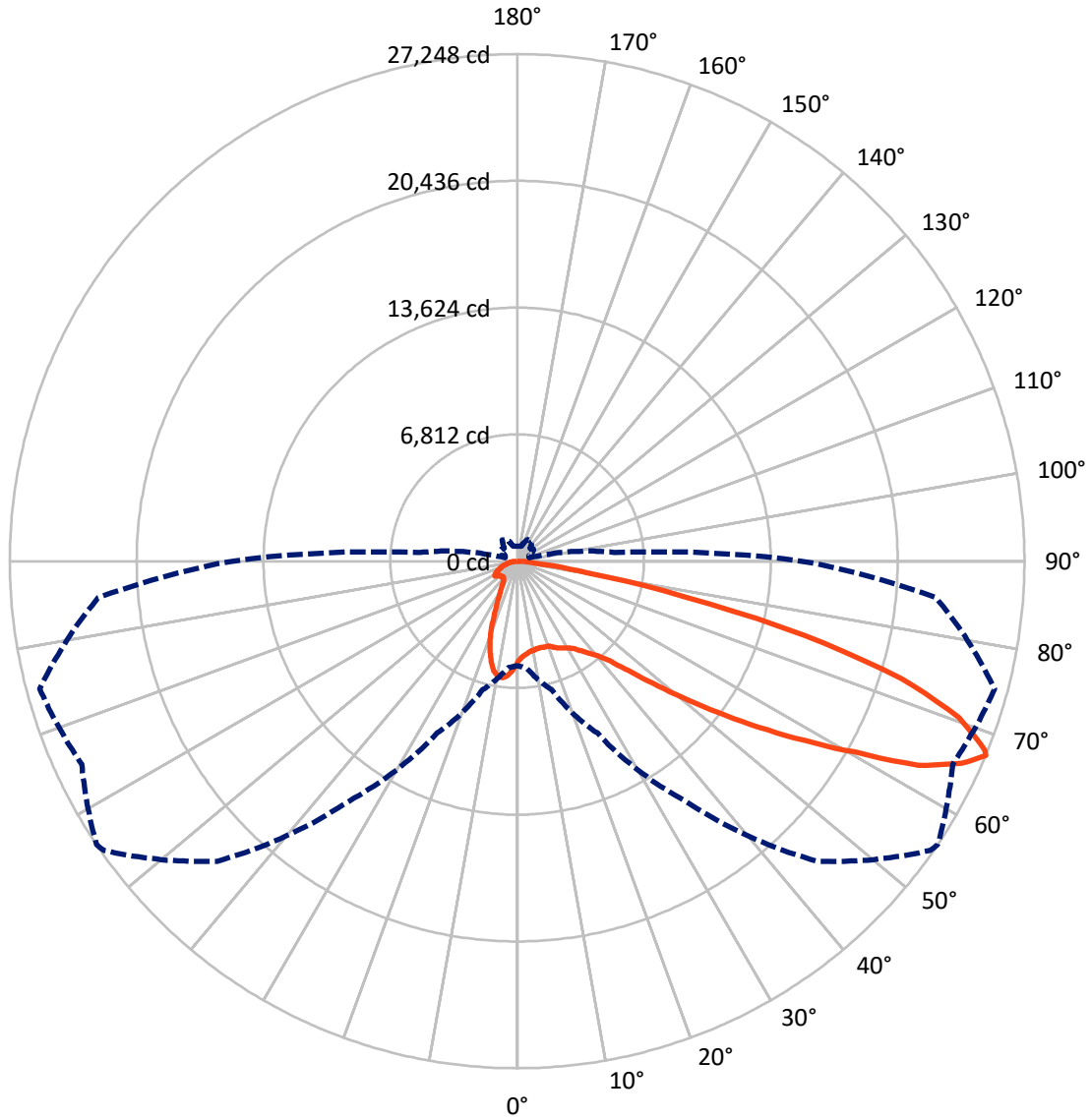
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5477.8 | 0.0 | 5477.8 |
| | % Fixture | 15.8 | 0.0 | 15.8 |
| Street Side | Lumens | 29123.9 | 0.0 | 29123.9 |
| | % Fixture | 84.2 | 0.0 | 84.2 |
| Total | Lumens | 34601.7 | 0.0 | 34601.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 518.7 | 1.5 |
| 10°-20° | 1415.0 | 4.1 |
| 20°-30° | 2219.1 | 6.4 |
| 30°-40° | 3167.9 | 9.2 |
| 40°-50° | 4781.2 | 13.8 |
| 50°-60° | 7610.9 | 22.0 |
| 60°-70° | 9729.9 | 28.1 |
| 70°-80° | 4744.0 | 13.7 |
| 80°-90° | 415.0 | 1.2 |
| 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° | 34601.7 | 100.0 |
| 0°-180° | 34601.7 | 100.0 |

Coefficient of Utilization

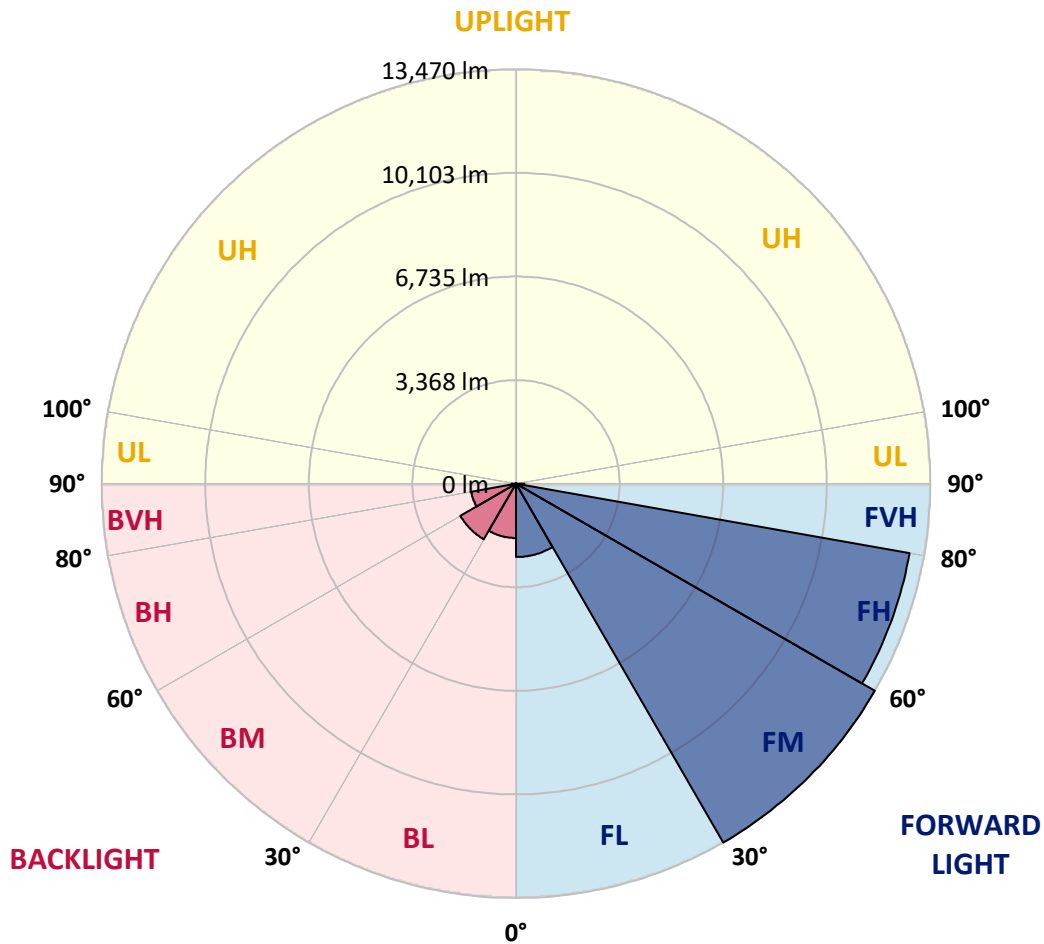


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2384.4 | 6.9 | | | |
| FM (30°-60°) | 13470.1 | 38.9 | | | |
| FH (60°-80°) | 12993.7 | 37.6 | | | G5 |
| FVH (80°-90°) | 275.6 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1768.4 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2089.8 | 6.0 | B2/2500 | | |
| BH (60°-80°) | 1480.2 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 139.4 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 |
| 2.5° | 4945.8 | 4925.5 | 4949.8 | 4925.5 | 5035.0 | 5099.9 | 5120.2 | 5148.6 | 5250.0 | 5347.4 |
| 5° | 4738.8 | 4649.6 | 4746.9 | 4779.4 | 4787.5 | 4897.1 | 5010.7 | 5031.0 | 5083.7 | 5241.9 |
| 7.5° | 4394.0 | 4495.4 | 4458.9 | 4556.3 | 4657.7 | 4767.2 | 4953.9 | 4901.1 | 5095.9 | 5246.0 |
| 10° | 4320.9 | 4329.1 | 4369.6 | 4406.1 | 4495.4 | 4637.4 | 4897.1 | 4864.6 | 5063.4 | 5383.9 |
| 12.5° | 4394.0 | 4394.0 | 4381.8 | 4353.4 | 4454.8 | 4592.8 | 4799.7 | 4815.9 | 5128.3 | 5424.5 |
| 15° | 4649.6 | 4698.3 | 4568.4 | 4588.7 | 4548.1 | 4592.8 | 4775.3 | 4811.9 | 5152.7 | 5457.0 |
| 17.5° | 5274.4 | 5258.2 | 5104.0 | 4889.0 | 4710.4 | 4682.0 | 4807.8 | 4848.4 | 5128.3 | 5550.3 |
| 20° | 5883.0 | 5850.5 | 5582.7 | 5359.6 | 5006.6 | 4840.3 | 4860.6 | 4864.6 | 5168.9 | 5611.1 |
| 22.5° | 6560.5 | 6645.7 | 6353.6 | 5899.2 | 5461.0 | 5047.2 | 4966.0 | 5031.0 | 5262.2 | 5643.6 |
| 25° | 7623.5 | 7440.9 | 7189.4 | 6593.0 | 5887.0 | 5367.7 | 5140.5 | 5173.0 | 5351.5 | 5724.7 |
| 27.5° | 8390.3 | 8317.3 | 7923.8 | 7440.9 | 6483.4 | 5619.3 | 5233.8 | 5294.7 | 5513.8 | 5720.7 |
| 30° | 9128.7 | 9128.7 | 8889.4 | 8167.2 | 7112.3 | 6041.2 | 5432.6 | 5404.2 | 5436.7 | 5712.6 |
| 32.5° | 9992.9 | 9875.3 | 9530.4 | 9051.7 | 7903.5 | 6426.6 | 5590.9 | 5599.0 | 5599.0 | 5862.7 |
| 35° | 10447.3 | 10638.0 | 10406.8 | 9627.8 | 8508.0 | 7067.7 | 5972.2 | 5911.4 | 5866.7 | 6029.0 |
| 37.5° | 11112.7 | 11226.3 | 10982.9 | 10524.4 | 9258.6 | 7587.0 | 6309.0 | 6260.3 | 6000.6 | 6158.9 |
| 40° | 11514.4 | 11494.1 | 11486.0 | 11275.0 | 10252.6 | 8199.6 | 6804.0 | 6678.2 | 6329.3 | 6617.3 |
| 42.5° | 11741.6 | 11701.0 | 12200.1 | 12070.2 | 11189.8 | 9100.3 | 7424.7 | 7355.7 | 6970.3 | 7432.8 |
| 45° | 11997.2 | 12297.4 | 12707.2 | 13072.4 | 12281.2 | 10366.2 | 8475.5 | 8378.2 | 8033.3 | 8621.6 |
| 47.5° | 12220.4 | 12589.6 | 13112.9 | 13502.4 | 13267.1 | 11741.6 | 9773.8 | 9798.2 | 9571.0 | 10175.5 |
| 50° | 12593.6 | 12630.1 | 13340.1 | 14127.2 | 14309.8 | 13011.5 | 11518.5 | 11477.9 | 11376.4 | 12224.4 |
| 52.5° | 12480.0 | 12589.6 | 13486.2 | 14492.4 | 14792.6 | 14354.4 | 13392.9 | 13514.6 | 13380.7 | 14447.8 |
| 55° | 10629.9 | 10958.6 | 13396.9 | 14877.8 | 15936.8 | 15871.9 | 15802.9 | 15721.7 | 15713.6 | 16947.0 |
| 57.5° | 9790.1 | 10057.9 | 11802.5 | 15303.8 | 17162.0 | 17640.8 | 18087.1 | 18176.4 | 18172.3 | 19661.3 |
| 60° | 9238.3 | 9514.2 | 11157.4 | 15072.6 | 18204.8 | 19957.5 | 20813.5 | 20825.7 | 20801.4 | 22562.2 |
| 62.5° | 8159.1 | 8426.8 | 10041.6 | 13806.7 | 18492.8 | 22095.6 | 24002.5 | 24160.8 | 23045.0 | 25061.5 |
| 65° | 6860.8 | 7079.9 | 8503.9 | 11871.4 | 17726.0 | 23454.8 | 26400.3 | 26213.7 | 24935.7 | 26489.6 |
| 67° | 5611.1 | 5757.2 | 7144.8 | 10191.7 | 15721.7 | 22801.6 | 27094.1 | 27248.3 | 25808.0 | 26550.5 |
| 67.5° | 5254.1 | 5388.0 | 6698.5 | 9619.7 | 14959.0 | 22306.6 | 27118.5 | 27094.1 | 25824.2 | 26562.6 |
| 70° | 3647.4 | 3704.2 | 4564.4 | 6617.3 | 11019.4 | 18845.8 | 25138.5 | 25195.3 | 24740.9 | 25122.3 |
| 72.5° | 2418.1 | 2503.3 | 3051.0 | 4170.8 | 6495.6 | 13713.4 | 21012.3 | 21620.9 | 21332.9 | 20598.5 |
| 75° | 1558.0 | 1606.7 | 1996.2 | 2483.0 | 3197.1 | 7810.2 | 15522.9 | 15928.7 | 15267.3 | 12739.7 |
| 77.5° | 872.3 | 925.0 | 1205.0 | 1509.3 | 1558.0 | 3249.8 | 8719.0 | 9222.1 | 7814.2 | 5412.3 |
| 80° | 543.7 | 612.6 | 908.8 | 896.6 | 742.5 | 1192.8 | 3594.7 | 3850.3 | 3124.1 | 1862.3 |
| 82.5° | 409.8 | 462.5 | 701.9 | 628.9 | 417.9 | 531.5 | 1347.0 | 1444.4 | 1144.1 | 718.1 |
| 85° | 279.9 | 353.0 | 507.2 | 389.5 | 219.1 | 255.6 | 535.6 | 576.1 | 523.4 | 348.9 |
| 87.5° | 101.4 | 150.1 | 263.7 | 194.7 | 97.4 | 77.1 | 174.5 | 194.7 | 186.6 | 158.2 |
| 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5383.9 | 0° | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 | 5383.9 |
| 5432.6 | 2.5° | 5509.7 | 5566.5 | 5594.9 | 5761.3 | 5830.2 | 5818.1 | 5834.3 | 5858.6 | 5883.0 | 5915.4 |
| 5501.6 | 5° | 5554.3 | 5728.8 | 5822.1 | 6016.9 | 6146.7 | 6089.9 | 6162.9 | 6142.6 | 6114.2 | 6110.2 |
| 5627.4 | 7.5° | 5700.4 | 5923.5 | 6203.5 | 6256.2 | 6313.0 | 6171.0 | 6049.3 | 5883.0 | 5842.4 | 5700.4 |
| 5732.9 | 10° | 5960.1 | 6142.6 | 6483.4 | 6503.7 | 6252.2 | 5887.0 | 5615.2 | 5270.3 | 5266.3 | 5059.4 |
| 5895.1 | 12.5° | 6207.5 | 6414.5 | 6690.4 | 6572.7 | 5972.2 | 5473.2 | 5031.0 | 4653.6 | 4495.4 | 4389.9 |
| 5992.5 | 15° | 6361.7 | 6702.5 | 6848.6 | 6341.4 | 5481.3 | 4807.8 | 4235.7 | 3830.0 | 3667.7 | 3590.6 |
| 6114.2 | 17.5° | 6503.7 | 6978.4 | 6913.5 | 5935.7 | 4876.8 | 4122.1 | 3440.5 | 3087.5 | 3042.9 | 2986.1 |
| 6309.0 | 20° | 6698.5 | 7079.9 | 6682.2 | 5408.3 | 4191.1 | 3237.7 | 2803.5 | 2633.1 | 2673.7 | 2698.1 |
| 6329.3 | 22.5° | 6881.0 | 7132.6 | 6390.1 | 4832.2 | 3310.7 | 2564.2 | 2349.1 | 2385.6 | 2446.5 | 2527.6 |
| 6378.0 | 25° | 6962.2 | 7217.8 | 5996.6 | 4036.9 | 2519.5 | 2158.4 | 2109.8 | 2170.6 | 2272.0 | 2276.1 |
| 6446.9 | 27.5° | 7014.9 | 7156.9 | 5521.9 | 3262.0 | 1992.1 | 1886.6 | 1959.6 | 2004.3 | 2016.4 | 2065.1 |
| 6593.0 | 30° | 7108.3 | 7031.2 | 4921.4 | 2332.9 | 1671.6 | 1675.6 | 1768.9 | 1768.9 | 1768.9 | 1805.5 |
| 6739.0 | 32.5° | 7270.5 | 6946.0 | 4219.5 | 1704.0 | 1440.3 | 1570.1 | 1545.8 | 1537.7 | 1521.5 | 1476.8 |
| 6925.7 | 35° | 7372.0 | 6714.7 | 3331.0 | 1261.8 | 1294.3 | 1440.3 | 1432.2 | 1306.4 | 1095.4 | 990.0 |
| 7400.4 | 37.5° | 7582.9 | 6597.0 | 2450.6 | 973.7 | 1209.1 | 1375.4 | 1330.8 | 1026.5 | 795.2 | 693.8 |
| 7988.7 | 40° | 8037.4 | 6520.0 | 1695.9 | 852.0 | 1152.3 | 1342.9 | 1188.8 | 876.4 | 608.6 | 430.1 |
| 8897.5 | 42.5° | 8593.2 | 6524.0 | 1152.3 | 803.3 | 1156.3 | 1411.9 | 1144.1 | 750.6 | 430.1 | 344.9 |
| 10110.6 | 45° | 9339.7 | 6463.2 | 791.2 | 803.3 | 1229.3 | 1525.5 | 1172.5 | 681.6 | 417.9 | 438.2 |
| 11632.1 | 47.5° | 10143.1 | 6515.9 | 588.3 | 730.3 | 1241.5 | 1529.6 | 1071.1 | 669.4 | 401.7 | 507.2 |
| 13287.4 | 50° | 11080.3 | 6568.6 | 486.9 | 673.5 | 1245.6 | 1480.9 | 985.9 | 653.2 | 417.9 | 535.6 |
| 15186.2 | 52.5° | 12045.9 | 6735.0 | 413.8 | 637.0 | 1294.3 | 1460.6 | 985.9 | 677.6 | 417.9 | 466.6 |
| 17604.3 | 55° | 13486.2 | 7161.0 | 596.4 | 795.2 | 1472.8 | 1594.5 | 1213.1 | 949.4 | 584.2 | 600.5 |
| 19921.0 | 57.5° | 15076.6 | 7599.2 | 665.4 | 835.8 | 1513.3 | 1436.3 | 1306.4 | 1046.8 | 616.7 | 620.8 |
| 21722.4 | 60° | 16123.4 | 7615.4 | 661.3 | 815.5 | 1416.0 | 1241.5 | 1278.0 | 1103.6 | 628.9 | 531.5 |
| 22838.1 | 62.5° | 16541.3 | 7120.4 | 689.7 | 815.5 | 1318.6 | 1160.4 | 1310.5 | 1188.8 | 649.2 | 665.4 |
| 23154.6 | 65° | 16066.6 | 6098.0 | 665.4 | 730.3 | 1160.4 | 1038.6 | 1318.6 | 1205.0 | 710.0 | 669.4 |
| 22586.6 | 67° | 15324.1 | 5254.1 | 677.6 | 693.8 | 1079.2 | 985.9 | 1387.6 | 1265.9 | 823.6 | 803.3 |
| 22290.4 | 67.5° | 15113.1 | 5031.0 | 673.5 | 673.5 | 1050.8 | 969.7 | 1403.8 | 1265.9 | 839.8 | 831.7 |
| 19673.5 | 70° | 13319.9 | 4077.5 | 689.7 | 665.4 | 929.1 | 921.0 | 1493.1 | 1334.8 | 965.6 | 973.7 |
| 14451.8 | 72.5° | 10139.0 | 3091.6 | 685.7 | 665.4 | 807.4 | 880.4 | 1505.2 | 1379.5 | 1050.8 | 973.7 |
| 8094.2 | 75° | 5761.3 | 1850.1 | 604.5 | 580.2 | 637.0 | 766.8 | 1407.9 | 1314.5 | 1022.4 | 872.3 |
| 3233.6 | 77.5° | 2381.6 | 953.4 | 555.8 | 523.4 | 527.4 | 624.8 | 1172.5 | 1225.3 | 973.7 | 742.5 |
| 1079.2 | 80° | 888.5 | 572.1 | 446.3 | 417.9 | 405.7 | 458.5 | 835.8 | 977.8 | 831.7 | 608.6 |
| 474.7 | 82.5° | 462.5 | 357.0 | 304.3 | 304.3 | 275.9 | 292.1 | 450.4 | 649.2 | 628.9 | 417.9 |
| 190.7 | 85° | 235.3 | 202.9 | 174.5 | 170.4 | 154.2 | 137.9 | 227.2 | 385.4 | 361.1 | 231.3 |
| 85.2 | 87.5° | 125.8 | 113.6 | 73.0 | 69.0 | 56.8 | 36.5 | 40.6 | 77.1 | 125.8 | 101.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O



| <u>180°</u> |
|-------------|
| 5383.9 |
| 5947.9 |
| 6146.7 |
| 5749.1 |
| 5051.2 |
| 4365.6 |
| 3574.4 |
| 3014.5 |
| 2669.7 |
| 2483.0 |
| 2316.7 |
| 2109.8 |
| 1846.0 |
| 1452.5 |
| 1038.6 |
| 689.7 |
| 417.9 |
| 336.7 |
| 446.3 |
| 564.0 |
| 620.8 |
| 478.8 |
| 632.9 |
| 600.5 |
| 547.7 |
| 673.5 |
| 657.3 |
| 791.2 |
| 815.5 |
| 900.7 |
| 864.2 |
| 779.0 |
| 701.9 |
| 555.8 |
| 328.6 |
| 190.7 |
| 73.0 |
| 0.0 |

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