

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: P477939

Luminaire Tested: **IFLD-S-SA6C-830-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477939  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

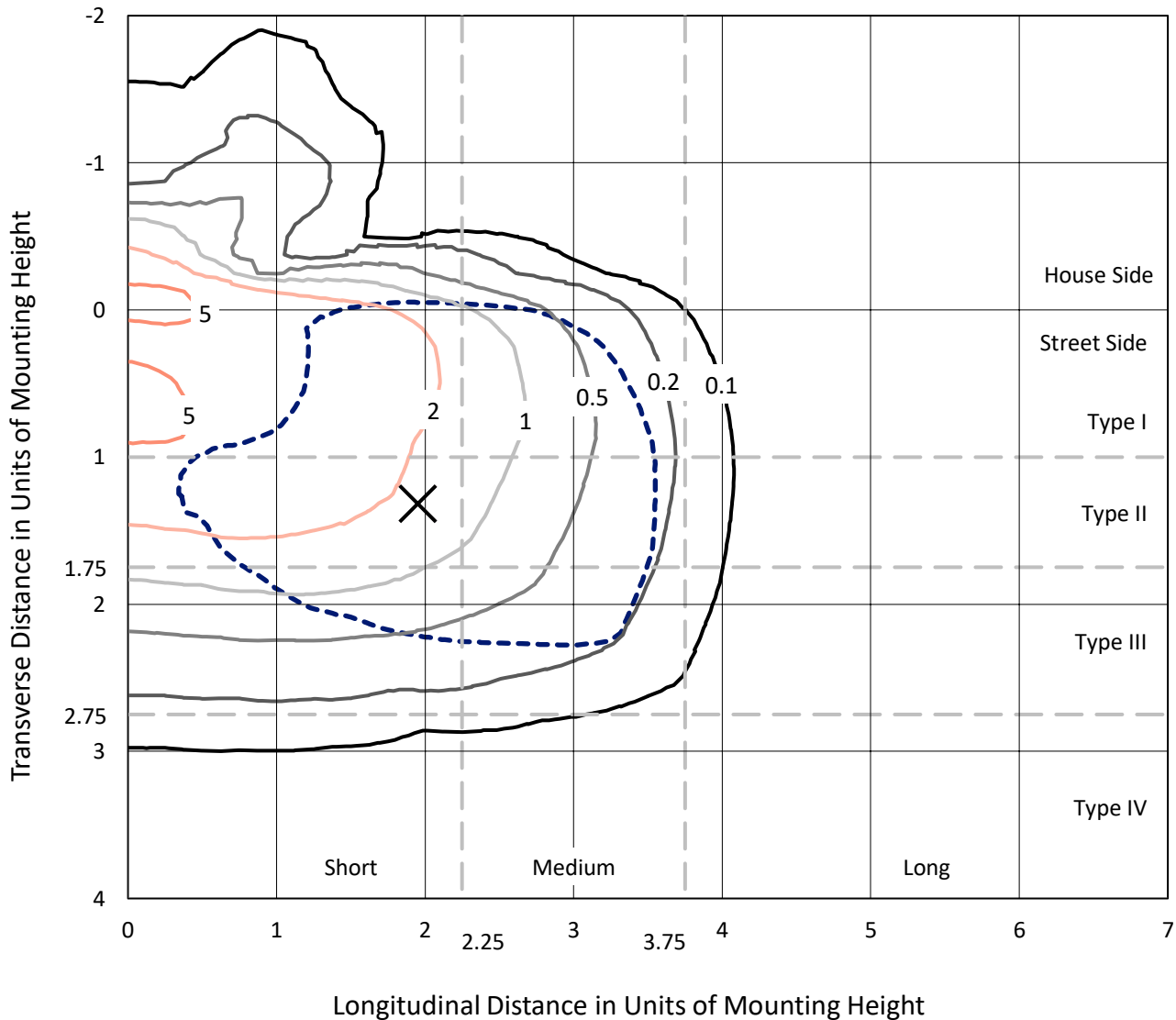
Lumens per Lamp: N/A  
Luminaire Lumens: 32432.6 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

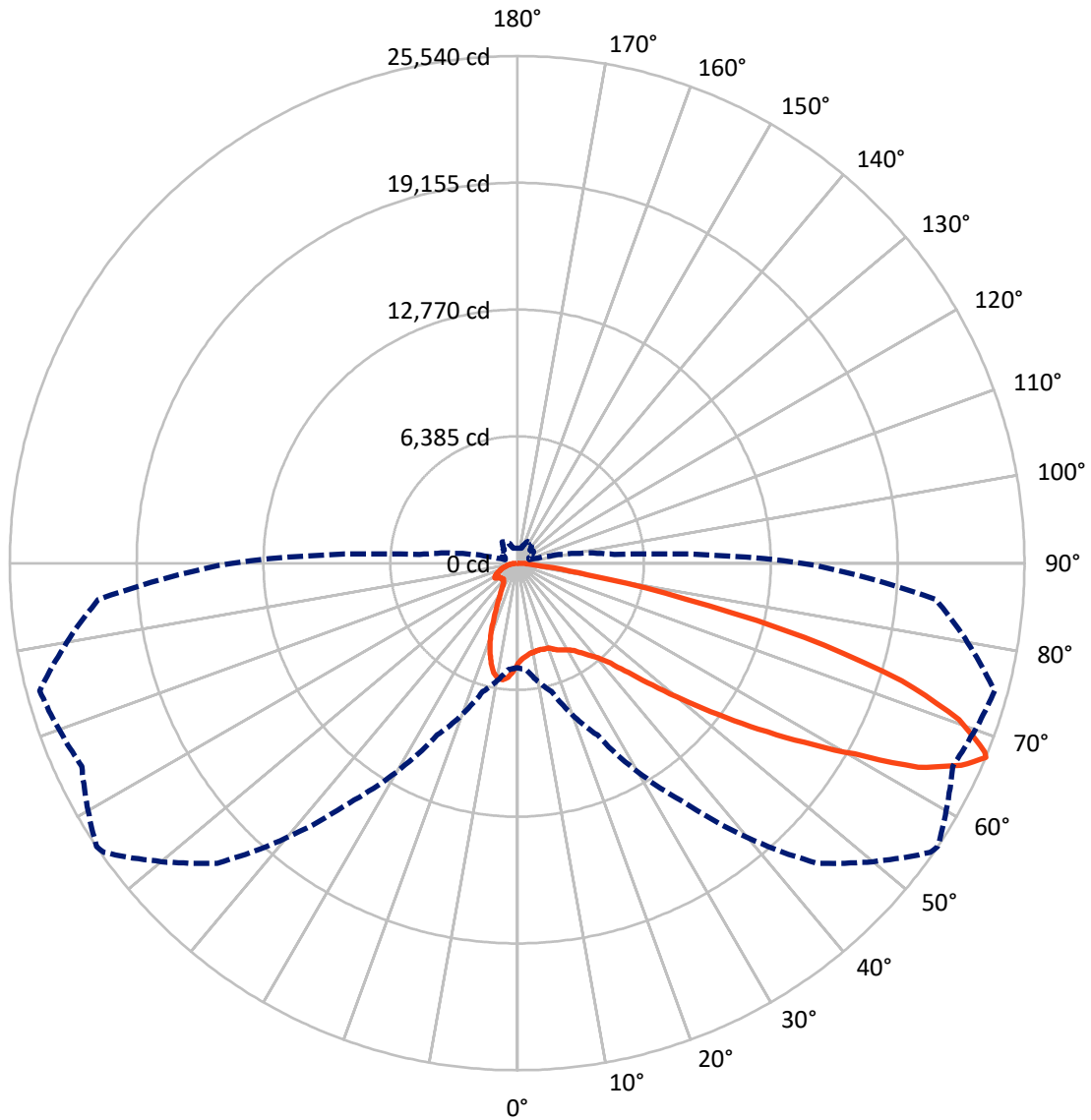
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5134.4   | 0.0    | 5134.4  |
|                    | % Fixture | 15.8     | 0.0    | 15.8    |
| <b>Street Side</b> | Lumens    | 27298.2  | 0.0    | 27298.2 |
|                    | % Fixture | 84.2     | 0.0    | 84.2    |
| <b>Total</b>       | Lumens    | 32432.6  | 0.0    | 32432.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 486.2   | 1.5       |
| 10°-20°   | 1326.3  | 4.1       |
| 20°-30°   | 2080.0  | 6.4       |
| 30°-40°   | 2969.3  | 9.2       |
| 40°-50°   | 4481.5  | 13.8      |
| 50°-60°   | 7133.8  | 22.0      |
| 60°-70°   | 9120.0  | 28.1      |
| 70°-80°   | 4446.6  | 13.7      |
| 80°-90°   | 389.0   | 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°    | 32432.6 | 100.0     |
| 0°-180°   | 32432.6 | 100.0     |

**Coefficient of Utilization**



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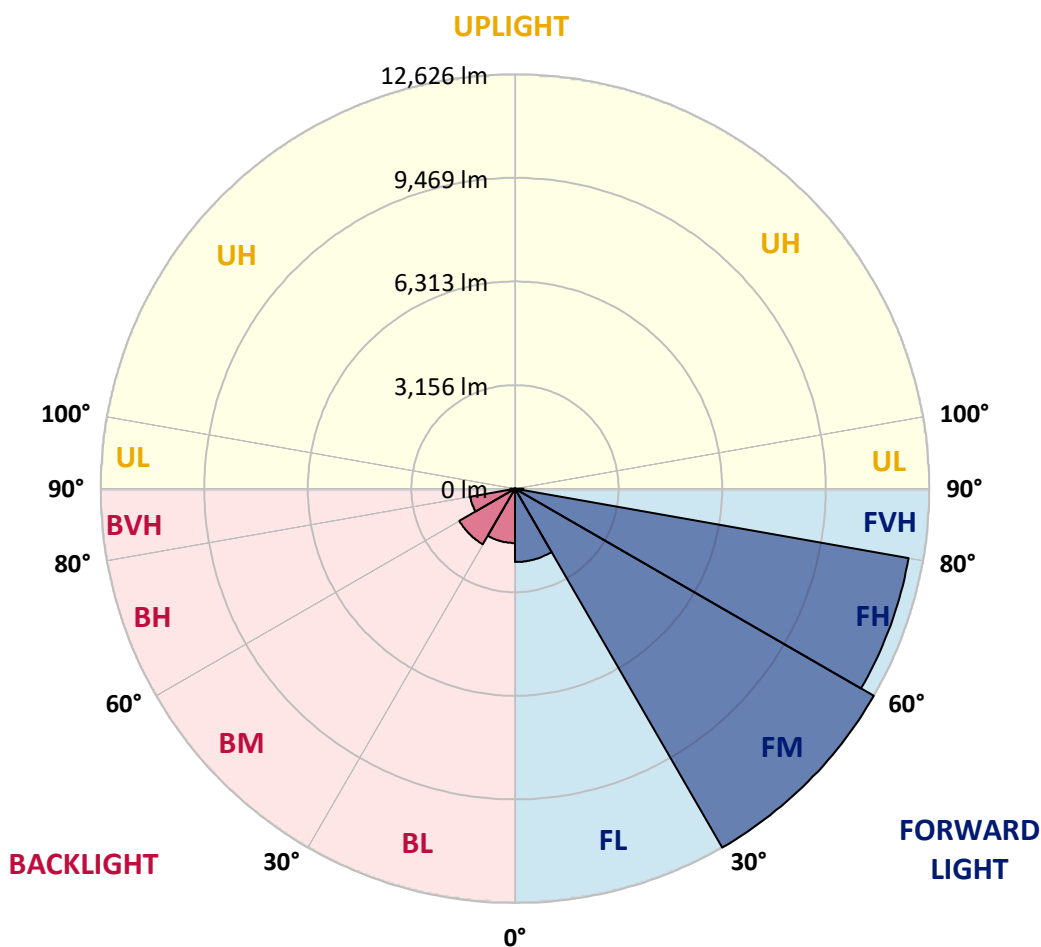
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2235.0  | 6.9       |                         |      |         |
| FM (30°-60°)   | 12625.7 | 38.9      |                         |      |         |
| FH (60°-80°)   | 12179.1 | 37.6      |                         |      | G5      |
| FVH (80°-90°)  | 258.3   | 0.8       |                         |      | G3/500  |
| BL (0°-30°)    | 1657.5  | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 1958.8  | 6.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 1387.4  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 130.7   | 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°    | 5046.4  | 5046.4  | 5046.4  | 5046.4  | 5046.4  | 5046.4  | 5046.4  | 5046.4  | 5046.4  | 5046.4  |
| 2.5°  | 4635.7  | 4616.7  | 4639.5  | 4616.7  | 4719.4  | 4780.2  | 4799.2  | 4825.9  | 4920.9  | 5012.2  |
| 5°    | 4441.8  | 4358.1  | 4449.4  | 4479.8  | 4487.4  | 4590.1  | 4696.6  | 4715.6  | 4765.0  | 4913.3  |
| 7.5°  | 4118.5  | 4213.6  | 4179.4  | 4270.6  | 4365.7  | 4468.4  | 4643.3  | 4593.9  | 4776.4  | 4917.1  |
| 10°   | 4050.1  | 4057.7  | 4095.7  | 4129.9  | 4213.6  | 4346.7  | 4590.1  | 4559.7  | 4746.0  | 5046.4  |
| 12.5° | 4118.5  | 4118.5  | 4107.1  | 4080.5  | 4175.6  | 4304.9  | 4498.8  | 4514.0  | 4806.8  | 5084.5  |
| 15°   | 4358.1  | 4403.7  | 4282.0  | 4301.1  | 4263.0  | 4304.9  | 4476.0  | 4510.2  | 4829.7  | 5114.9  |
| 17.5° | 4943.7  | 4928.5  | 4784.0  | 4582.5  | 4415.1  | 4388.5  | 4506.4  | 4544.4  | 4806.8  | 5202.3  |
| 20°   | 5514.2  | 5483.8  | 5232.8  | 5023.6  | 4692.8  | 4536.8  | 4555.9  | 4559.7  | 4844.9  | 5259.4  |
| 22.5° | 6149.3  | 6229.1  | 5955.3  | 5529.4  | 5118.7  | 4730.8  | 4654.7  | 4715.6  | 4932.3  | 5289.8  |
| 25°   | 7145.6  | 6974.5  | 6738.7  | 6179.7  | 5518.0  | 5031.2  | 4818.2  | 4848.7  | 5016.0  | 5365.9  |
| 27.5° | 7864.4  | 7795.9  | 7427.0  | 6974.5  | 6077.0  | 5267.0  | 4905.7  | 4962.8  | 5168.1  | 5362.1  |
| 30°   | 8556.5  | 8556.5  | 8332.1  | 7655.2  | 6666.4  | 5662.5  | 5092.1  | 5065.4  | 5095.9  | 5354.5  |
| 32.5° | 9366.5  | 9256.2  | 8933.0  | 8484.2  | 7408.0  | 6023.8  | 5240.4  | 5248.0  | 5248.0  | 5495.2  |
| 35°   | 9792.4  | 9971.2  | 9754.4  | 9024.2  | 7974.6  | 6624.6  | 5597.8  | 5540.8  | 5499.0  | 5651.1  |
| 37.5° | 10416.1 | 10522.6 | 10294.4 | 9864.7  | 8678.2  | 7111.4  | 5913.5  | 5867.8  | 5624.5  | 5772.8  |
| 40°   | 10792.6 | 10773.6 | 10766.0 | 10568.2 | 9609.9  | 7685.6  | 6377.4  | 6259.5  | 5932.5  | 6202.5  |
| 42.5° | 11005.5 | 10967.5 | 11435.3 | 11313.6 | 10488.3 | 8529.9  | 6959.3  | 6894.6  | 6533.3  | 6966.9  |
| 45°   | 11245.1 | 11526.5 | 11910.6 | 12252.9 | 11511.3 | 9716.4  | 7944.2  | 7852.9  | 7529.7  | 8081.1  |
| 47.5° | 11454.3 | 11800.3 | 12290.9 | 12656.0 | 12435.4 | 11005.5 | 9161.1  | 9184.0  | 8971.0  | 9537.6  |
| 50°   | 11804.1 | 11838.4 | 12503.9 | 13241.6 | 13412.8 | 12195.8 | 10796.4 | 10758.3 | 10663.3 | 11458.1 |
| 52.5° | 11697.7 | 11800.3 | 12640.8 | 13583.9 | 13865.3 | 13454.6 | 12553.3 | 12667.4 | 12541.9 | 13542.1 |
| 55°   | 9963.5  | 10271.6 | 12557.1 | 13945.2 | 14937.7 | 14876.9 | 14812.2 | 14736.2 | 14728.6 | 15884.6 |
| 57.5° | 9176.3  | 9427.3  | 11062.6 | 14344.5 | 16086.2 | 16534.9 | 16953.2 | 17036.9 | 17033.1 | 18428.8 |
| 60°   | 8659.2  | 8917.8  | 10457.9 | 14127.7 | 17063.5 | 18706.4 | 19508.8 | 19520.2 | 19497.4 | 21147.8 |
| 62.5° | 7647.6  | 7898.6  | 9412.1  | 12941.2 | 17333.5 | 20710.5 | 22497.8 | 22646.2 | 21600.4 | 23490.4 |
| 65°   | 6430.7  | 6636.0  | 7970.8  | 11127.2 | 16614.8 | 21984.5 | 24745.3 | 24570.4 | 23372.5 | 24829.0 |
| 67°   | 5259.4  | 5396.3  | 6696.9  | 9552.8  | 14736.2 | 21372.2 | 25395.6 | 25540.1 | 24190.1 | 24886.0 |
| 67.5° | 4924.7  | 5050.2  | 6278.6  | 9016.6  | 14021.2 | 20908.2 | 25418.5 | 25395.6 | 24205.3 | 24897.5 |
| 70°   | 3418.8  | 3472.0  | 4278.2  | 6202.5  | 10328.6 | 17664.4 | 23562.6 | 23615.9 | 23190.0 | 23547.4 |
| 72.5° | 2266.5  | 2346.4  | 2859.8  | 3909.4  | 6088.4  | 12853.7 | 19695.1 | 20265.5 | 19995.5 | 19307.2 |
| 75°   | 1460.3  | 1505.9  | 1871.0  | 2327.4  | 2996.7  | 7320.5  | 14549.8 | 14930.1 | 14310.2 | 11941.0 |
| 77.5° | 817.6   | 867.1   | 1129.5  | 1414.7  | 1460.3  | 3046.1  | 8172.4  | 8643.9  | 7324.3  | 5073.0  |
| 80°   | 509.6   | 574.2   | 851.8   | 840.4   | 695.9   | 1118.0  | 3369.4  | 3608.9  | 2928.2  | 1745.5  |
| 82.5° | 384.1   | 433.5   | 657.9   | 589.4   | 391.7   | 498.2   | 1262.6  | 1353.8  | 1072.4  | 673.1   |
| 85°   | 262.4   | 330.9   | 475.4   | 365.1   | 205.4   | 239.6   | 502.0   | 540.0   | 490.6   | 327.0   |
| 87.5° | 95.1    | 140.7   | 247.2   | 182.5   | 91.3    | 72.3    | 163.5   | 182.5   | 174.9   | 148.3   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5046.4  | 0°    | 5046.4  | 5046.4 | 5046.4 | 5046.4 | 5046.4 | 5046.4 | 5046.4 | 5046.4 | 5046.4 | 5046.4 |
| 5092.1  | 2.5°  | 5164.3  | 5217.6 | 5244.2 | 5400.1 | 5464.7 | 5453.3 | 5468.5 | 5491.4 | 5514.2 | 5544.6 |
| 5156.7  | 5°    | 5206.1  | 5369.7 | 5457.1 | 5639.7 | 5761.4 | 5708.1 | 5776.6 | 5757.6 | 5730.9 | 5727.1 |
| 5274.6  | 7.5°  | 5343.0  | 5552.2 | 5814.6 | 5864.0 | 5917.3 | 5784.2 | 5670.1 | 5514.2 | 5476.1 | 5343.0 |
| 5373.5  | 10°   | 5586.4  | 5757.6 | 6077.0 | 6096.0 | 5860.2 | 5518.0 | 5263.2 | 4939.9 | 4936.1 | 4742.2 |
| 5525.6  | 12.5° | 5818.4  | 6012.4 | 6270.9 | 6160.7 | 5597.8 | 5130.1 | 4715.6 | 4361.9 | 4213.6 | 4114.7 |
| 5616.9  | 15°   | 5962.9  | 6282.4 | 6419.3 | 5943.9 | 5137.7 | 4506.4 | 3970.2 | 3589.9 | 3437.8 | 3365.5 |
| 5730.9  | 17.5° | 6096.0  | 6541.0 | 6480.1 | 5563.6 | 4571.1 | 3863.7 | 3224.8 | 2894.0 | 2852.2 | 2798.9 |
| 5913.5  | 20°   | 6278.6  | 6636.0 | 6263.3 | 5069.2 | 3928.4 | 3034.7 | 2627.8 | 2468.1 | 2506.1 | 2528.9 |
| 5932.5  | 22.5° | 6449.7  | 6685.5 | 5989.5 | 4529.2 | 3103.2 | 2403.4 | 2201.9 | 2236.1 | 2293.1 | 2369.2 |
| 5978.1  | 25°   | 6525.7  | 6765.3 | 5620.7 | 3783.9 | 2361.6 | 2023.1 | 1977.5 | 2034.5 | 2129.6 | 2133.4 |
| 6042.8  | 27.5° | 6575.2  | 6708.3 | 5175.7 | 3057.5 | 1867.2 | 1768.3 | 1836.8 | 1878.6 | 1890.0 | 1935.7 |
| 6179.7  | 30°   | 6662.6  | 6590.4 | 4612.9 | 2186.7 | 1566.8 | 1570.6 | 1658.1 | 1658.1 | 1658.1 | 1692.3 |
| 6316.6  | 32.5° | 6814.8  | 6510.5 | 3955.0 | 1597.2 | 1350.0 | 1471.7 | 1448.9 | 1441.3 | 1426.1 | 1384.2 |
| 6491.5  | 35°   | 6909.8  | 6293.8 | 3122.2 | 1182.7 | 1213.1 | 1350.0 | 1342.4 | 1224.5 | 1026.8 | 927.9  |
| 6936.5  | 37.5° | 7107.6  | 6183.5 | 2296.9 | 912.7  | 1133.3 | 1289.2 | 1247.3 | 962.1  | 745.4  | 650.3  |
| 7487.9  | 40°   | 7533.5  | 6111.2 | 1589.6 | 798.6  | 1080.0 | 1258.8 | 1114.2 | 821.4  | 570.4  | 403.1  |
| 8339.7  | 42.5° | 8054.5  | 6115.0 | 1080.0 | 753.0  | 1083.8 | 1323.4 | 1072.4 | 703.5  | 403.1  | 323.2  |
| 9476.8  | 45°   | 8754.2  | 6058.0 | 741.6  | 753.0  | 1152.3 | 1429.9 | 1099.0 | 638.9  | 391.7  | 410.7  |
| 10902.9 | 47.5° | 9507.2  | 6107.4 | 551.4  | 684.5  | 1163.7 | 1433.7 | 1004.0 | 627.5  | 376.5  | 475.4  |
| 12454.4 | 50°   | 10385.7 | 6156.9 | 456.3  | 631.3  | 1167.5 | 1388.1 | 924.1  | 612.3  | 391.7  | 502.0  |
| 14234.2 | 52.5° | 11290.8 | 6312.8 | 387.9  | 597.1  | 1213.1 | 1369.0 | 924.1  | 635.1  | 391.7  | 437.3  |
| 16500.7 | 55°   | 12640.8 | 6712.1 | 559.0  | 745.4  | 1380.4 | 1494.5 | 1137.1 | 889.9  | 547.6  | 562.8  |
| 18672.1 | 57.5° | 14131.5 | 7122.8 | 623.7  | 783.4  | 1418.5 | 1346.2 | 1224.5 | 981.1  | 578.0  | 581.8  |
| 20360.6 | 60°   | 15112.6 | 7138.0 | 619.9  | 764.4  | 1327.2 | 1163.7 | 1197.9 | 1034.4 | 589.4  | 498.2  |
| 21406.4 | 62.5° | 15504.3 | 6674.1 | 646.5  | 764.4  | 1235.9 | 1087.6 | 1228.3 | 1114.2 | 608.5  | 623.7  |
| 21703.0 | 65°   | 15059.4 | 5715.7 | 623.7  | 684.5  | 1087.6 | 973.5  | 1235.9 | 1129.5 | 665.5  | 627.5  |
| 21170.6 | 67°   | 14363.5 | 4924.7 | 635.1  | 650.3  | 1011.6 | 924.1  | 1300.6 | 1186.5 | 772.0  | 753.0  |
| 20893.0 | 67.5° | 14165.7 | 4715.6 | 631.3  | 631.3  | 984.9  | 908.9  | 1315.8 | 1186.5 | 787.2  | 779.6  |
| 18440.2 | 70°   | 12484.9 | 3821.9 | 646.5  | 623.7  | 870.9  | 863.3  | 1399.5 | 1251.1 | 905.1  | 912.7  |
| 13545.9 | 72.5° | 9503.4  | 2897.8 | 642.7  | 623.7  | 756.8  | 825.2  | 1410.9 | 1293.0 | 984.9  | 912.7  |
| 7586.7  | 75°   | 5400.1  | 1734.1 | 566.6  | 543.8  | 597.1  | 718.7  | 1319.6 | 1232.1 | 958.3  | 817.6  |
| 3030.9  | 77.5° | 2232.3  | 893.7  | 521.0  | 490.6  | 494.4  | 585.6  | 1099.0 | 1148.5 | 912.7  | 695.9  |
| 1011.6  | 80°   | 832.8   | 536.2  | 418.3  | 391.7  | 380.3  | 429.7  | 783.4  | 916.5  | 779.6  | 570.4  |
| 444.9   | 82.5° | 433.5   | 334.7  | 285.2  | 285.2  | 258.6  | 273.8  | 422.1  | 608.5  | 589.4  | 391.7  |
| 178.7   | 85°   | 220.6   | 190.1  | 163.5  | 159.7  | 144.5  | 129.3  | 213.0  | 361.3  | 338.5  | 216.8  |
| 79.9    | 87.5° | 117.9   | 106.5  | 68.5   | 64.6   | 53.2   | 34.2   | 38.0   | 72.3   | 117.9  | 95.1   |
| 0.0     | 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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| 180°   |
|--------|
| 5046.4 |
| 5575.0 |
| 5761.4 |
| 5388.7 |
| 4734.6 |
| 4091.9 |
| 3350.3 |
| 2825.5 |
| 2502.3 |
| 2327.4 |
| 2171.4 |
| 1977.5 |
| 1730.3 |
| 1361.4 |
| 973.5  |
| 646.5  |
| 391.7  |
| 315.6  |
| 418.3  |
| 528.6  |
| 581.8  |
| 448.7  |
| 593.2  |
| 562.8  |
| 513.4  |
| 631.3  |
| 616.1  |
| 741.6  |
| 764.4  |
| 844.2  |
| 810.0  |
| 730.2  |
| 657.9  |
| 521.0  |
| 308.0  |
| 178.7  |
| 68.5   |
| 0.0    |

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