

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: P635861

Luminaire Tested: **IFLD-L-SA7D-927-U-11-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P635861  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-927-U-11-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 1 distribution lens and Visor  
Light Source: (112) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 22677.3 lumens  
Efficiency: N/A  
Efficacy: 53.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 422.6  
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



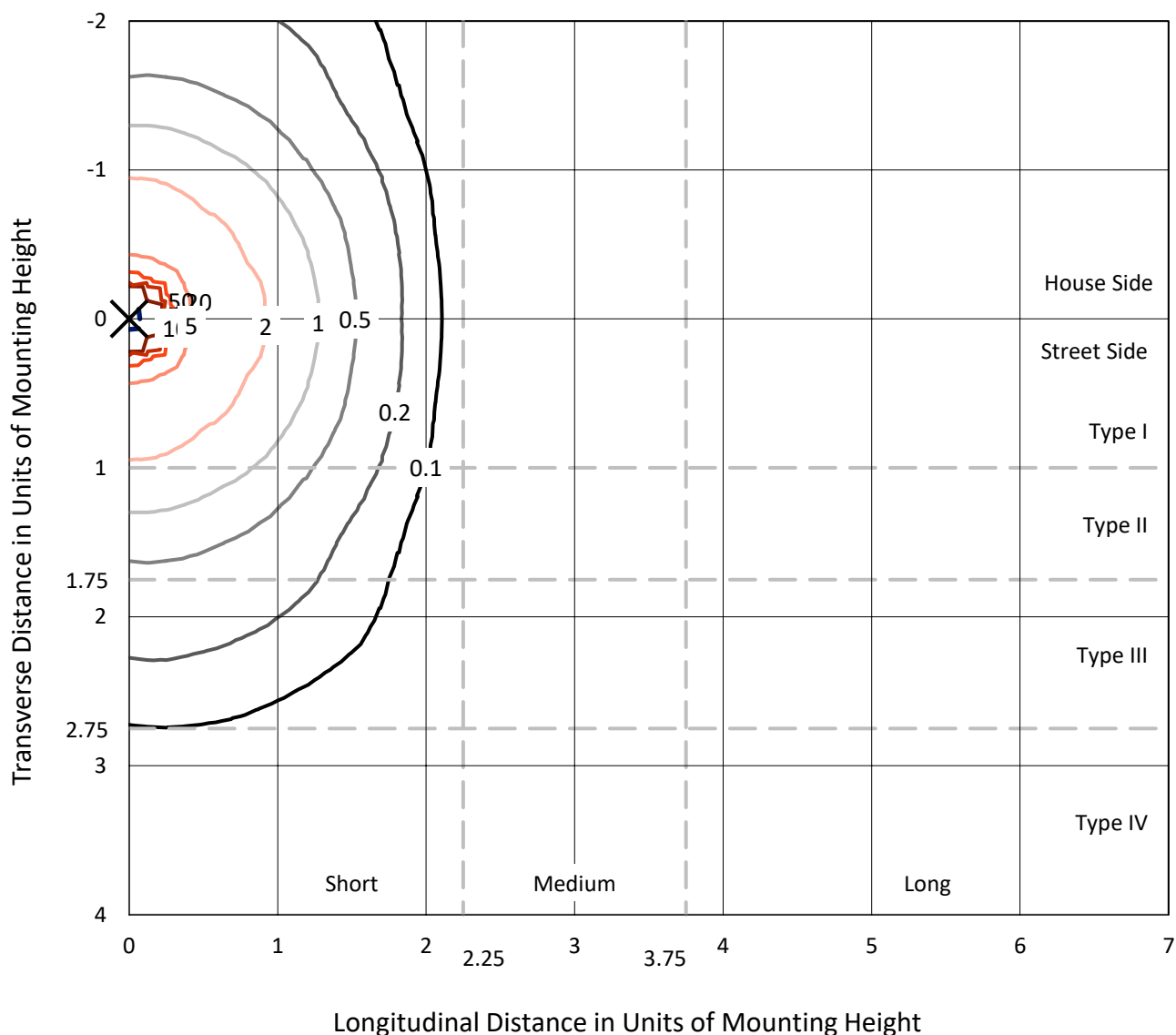
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

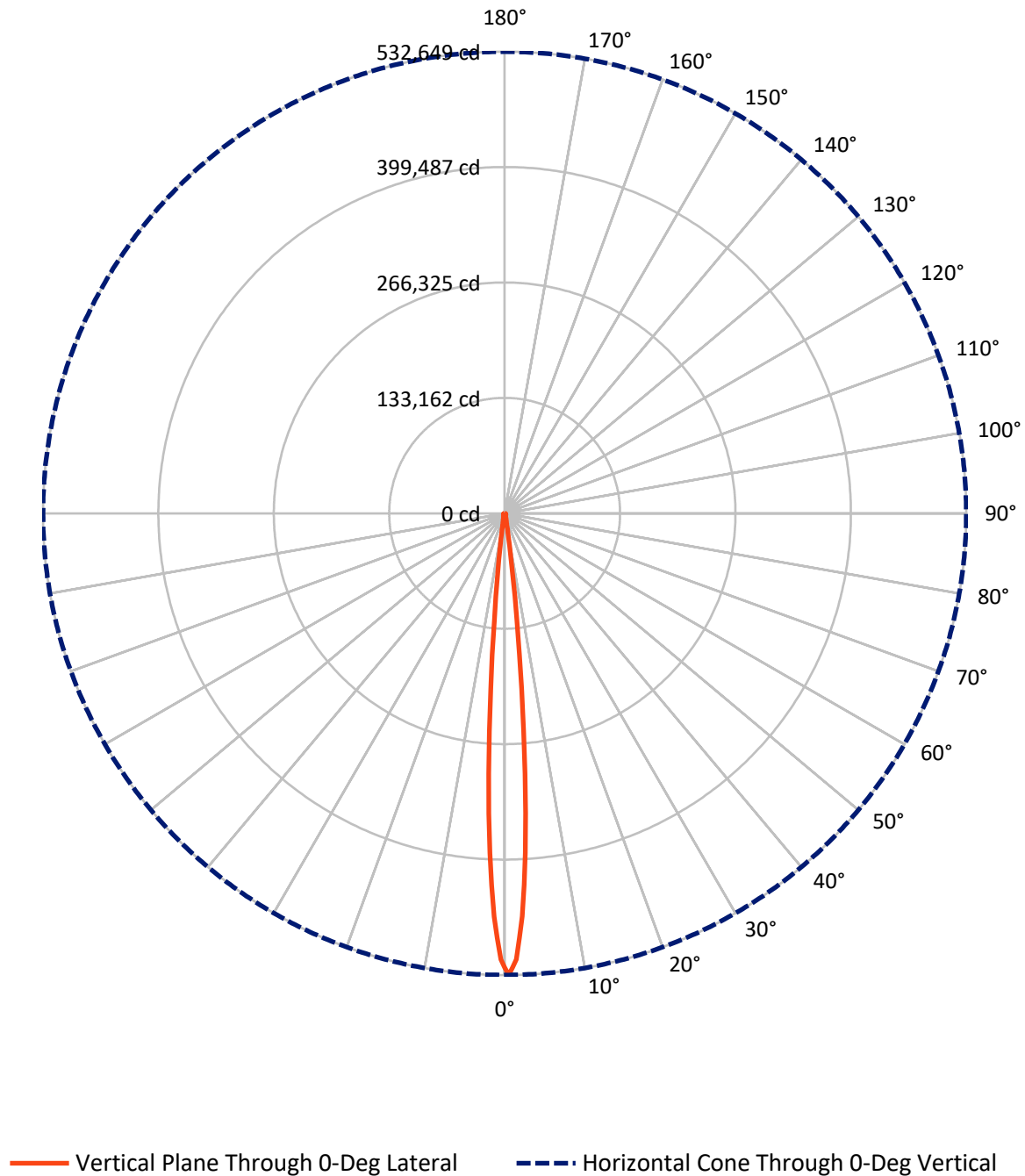


Based on 20 foot mounting height. Maximum calculated value = 1331.6 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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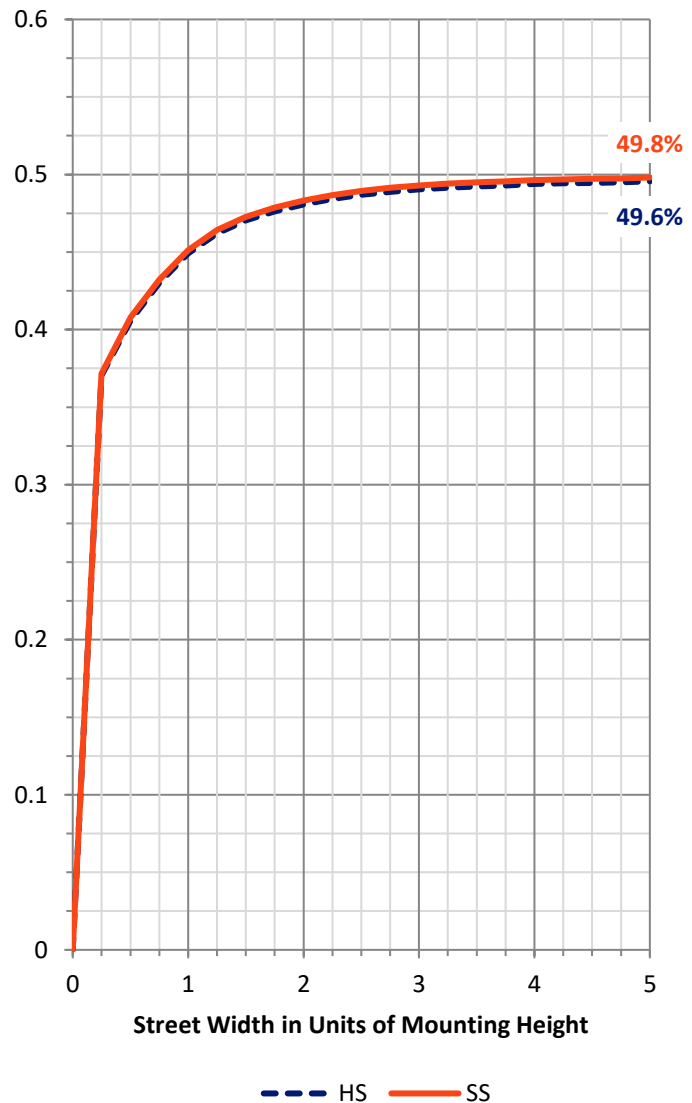
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11338.7  | 0.0    | 11338.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11338.7  | 0.0    | 11338.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22677.3  | 0.0    | 22677.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 14313.4 | 63.1      |
| 10°-20°   | 1769.0  | 7.8       |
| 20°-30°   | 1059.9  | 4.7       |
| 30°-40°   | 1139.6  | 5.0       |
| 40°-50°   | 1532.3  | 6.8       |
| 50°-60°   | 1365.9  | 6.0       |
| 60°-70°   | 902.2   | 4.0       |
| 70°-80°   | 447.3   | 2.0       |
| 80°-90°   | 147.7   | 0.7       |
| 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°    | 22677.3 | 100.0     |
| 0°-180°   | 22677.3 | 100.0     |



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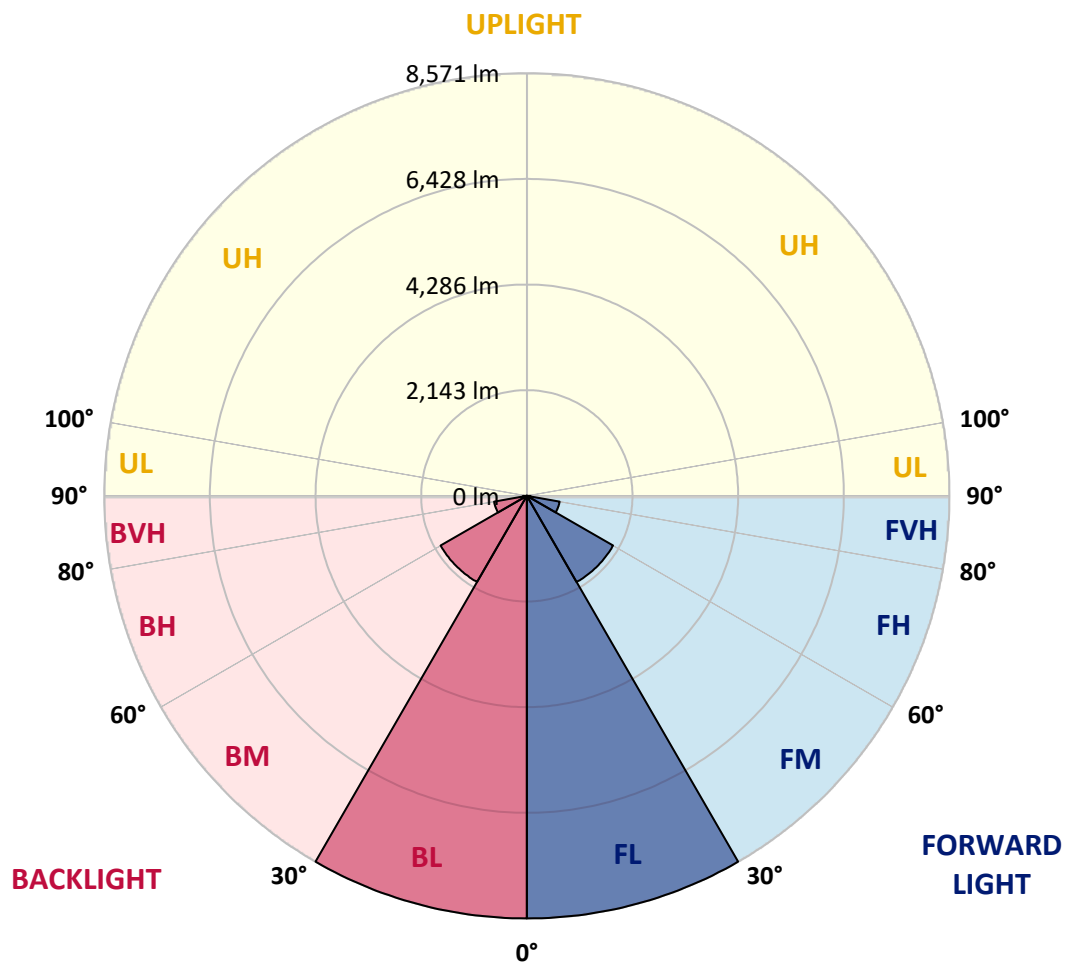
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 8571.1 | 37.8      |                         |      |         |
| FM   | (30°-60°)   | 2018.9 | 8.9       |                         |      |         |
| FH   | (60°-80°)   | 674.8  | 3.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 73.8   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 8571.1 | 37.8      | B5                      |      |         |
| BM   | (30°-60°)   | 2018.9 | 8.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 674.8  | 3.0       | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 73.8   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°       | 5°       | 15°      | 25°      | 35°      | 45°      | 55°      | 65°      | 75°      | 85°      |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0°    | 532649.2 | 532649.2 | 532649.2 | 532649.2 | 532649.2 | 532649.2 | 532649.2 | 532649.2 | 532649.2 | 532649.2 |
| 1°    | 514795.6 | 509511.6 | 512229.4 | 514826.9 | 518469.8 | 520074.3 | 521710.2 | 522933.2 | 522912.3 | 524929.7 |
| 2°    | 465630.3 | 457116.4 | 461062.4 | 465902.1 | 475262.7 | 477949.1 | 482438.6 | 487994.3 | 488334.0 | 493361.9 |
| 3°    | 392470.3 | 380517.4 | 386329.3 | 394947.7 | 410465.0 | 414479.0 | 421675.8 | 426755.9 | 424487.6 | 430372.6 |
| 4°    | 301169.4 | 285573.6 | 294453.4 | 307211.1 | 322315.6 | 337639.6 | 337942.7 | 341585.6 | 334106.5 | 333745.9 |
| 5°    | 203189.0 | 189438.2 | 200831.8 | 216788.2 | 229838.7 | 240547.7 | 247143.5 | 247598.2 | 239512.9 | 238775.9 |
| 6°    | 123924.5 | 114825.3 | 124739.9 | 141626.5 | 159704.9 | 164157.8 | 165166.5 | 162877.3 | 152272.8 | 146403.5 |
| 7°    | 68492.7  | 64781.9  | 74471.8  | 84548.4  | 98644.2  | 105161.5 | 100651.1 | 93334.1  | 90088.4  | 83100.7  |
| 8°    | 37771.6  | 35942.3  | 38707.1  | 47414.4  | 58353.4  | 62633.9  | 58280.2  | 50681.0  | 45208.9  | 43275.1  |
| 9°    | 22771.7  | 21757.7  | 22886.7  | 26200.2  | 30924.9  | 33893.6  | 31400.6  | 27658.4  | 25348.3  | 24705.5  |
| 10°   | 15125.4  | 14728.2  | 15209.0  | 16327.5  | 18026.1  | 18893.6  | 18271.7  | 16787.4  | 16087.0  | 16045.2  |
| 12.5° | 7939.0   | 7865.8   | 7986.0   | 8111.5   | 8404.1   | 8451.2   | 8341.4   | 8236.9   | 8074.9   | 8137.6   |
| 15°   | 5111.5   | 5043.5   | 5169.0   | 5331.0   | 5404.2   | 5451.2   | 5456.4   | 5398.9   | 5289.2   | 5236.9   |
| 17.5° | 3726.5   | 3742.1   | 3752.6   | 3846.7   | 3987.8   | 4097.5   | 4050.5   | 3987.8   | 3862.4   | 3799.6   |
| 20°   | 3067.9   | 3073.2   | 3094.1   | 3146.3   | 3193.4   | 3344.9   | 3297.9   | 3203.8   | 3083.6   | 3036.6   |
| 22.5° | 2623.7   | 2634.1   | 2644.6   | 2675.9   | 2686.4   | 2728.2   | 2733.4   | 2649.8   | 2581.9   | 2555.7   |
| 25°   | 2310.1   | 2310.1   | 2325.8   | 2351.9   | 2362.4   | 2331.0   | 2336.2   | 2299.6   | 2236.9   | 2205.6   |
| 27.5° | 1959.9   | 1970.4   | 1986.1   | 1996.5   | 1975.6   | 1939.0   | 1892.0   | 1923.3   | 1892.0   | 1818.8   |
| 30°   | 1745.6   | 1756.1   | 1803.1   | 1771.8   | 1724.7   | 1677.7   | 1651.6   | 1693.4   | 1698.6   | 1635.9   |
| 32.5° | 1730.0   | 1735.2   | 1750.9   | 1735.2   | 1677.7   | 1620.2   | 1583.6   | 1630.7   | 1641.1   | 1615.0   |
| 35°   | 1808.4   | 1792.7   | 1813.6   | 1824.0   | 1766.5   | 1703.8   | 1656.8   | 1698.6   | 1730.0   | 1740.4   |
| 37.5° | 2189.9   | 2101.0   | 2033.1   | 2012.2   | 1975.6   | 1933.8   | 1871.1   | 1881.5   | 1939.0   | 1991.3   |
| 40°   | 2085.4   | 2064.5   | 2038.3   | 1970.4   | 1902.4   | 1954.7   | 1881.5   | 1860.6   | 1991.3   | 2001.7   |
| 42.5° | 2069.7   | 2085.4   | 2064.5   | 1980.8   | 1912.9   | 1965.1   | 1949.5   | 1886.8   | 2017.4   | 2001.7   |
| 45°   | 2080.1   | 2095.8   | 2142.8   | 2001.7   | 1944.2   | 1970.4   | 2001.7   | 1933.8   | 2064.5   | 2012.2   |
| 47.5° | 1996.5   | 2017.4   | 2069.7   | 1991.3   | 1954.7   | 1949.5   | 1996.5   | 1933.8   | 2001.7   | 1996.5   |
| 50°   | 1886.8   | 1907.7   | 1923.3   | 1855.4   | 1923.3   | 1886.8   | 1892.0   | 1865.8   | 1865.8   | 1876.3   |
| 52.5° | 1745.6   | 1766.5   | 1782.2   | 1703.8   | 1745.6   | 1761.3   | 1698.6   | 1693.4   | 1646.3   | 1662.0   |
| 55°   | 1573.2   | 1604.5   | 1620.2   | 1588.8   | 1567.9   | 1599.3   | 1510.4   | 1500.0   | 1405.9   | 1411.1   |
| 57.5° | 1374.6   | 1405.9   | 1421.6   | 1458.2   | 1442.5   | 1379.8   | 1327.5   | 1285.7   | 1181.2   | 1139.4   |
| 60°   | 1416.4   | 1447.7   | 1416.4   | 1311.8   | 1311.8   | 1170.7   | 1123.7   | 1034.8   | 930.3    | 878.0    |
| 62.5° | 1369.3   | 1411.1   | 1405.9   | 1296.2   | 1165.5   | 987.8    | 904.2    | 810.1    | 705.6    | 637.6    |
| 65°   | 1290.9   | 1332.7   | 1311.8   | 1238.7   | 1113.2   | 846.7    | 721.3    | 627.2    | 496.5    | 480.8    |
| 67.5° | 1160.3   | 1223.0   | 1181.2   | 1134.1   | 1034.8   | 768.3    | 574.9    | 470.4    | 360.6    | 360.6    |
| 70°   | 961.7    | 1008.7   | 1034.8   | 982.6    | 925.1    | 721.3    | 491.3    | 360.6    | 261.3    | 198.6    |
| 72.5° | 773.5    | 815.3    | 857.1    | 831.0    | 778.7    | 653.3    | 439.0    | 287.5    | 188.2    | 115.0    |
| 75°   | 428.6    | 444.2    | 459.9    | 522.6    | 595.8    | 533.1    | 402.4    | 250.9    | 156.8    | 88.8     |
| 77.5° | 329.3    | 344.9    | 381.5    | 350.2    | 324.0    | 412.9    | 439.0    | 292.7    | 135.9    | 62.7     |
| 80°   | 256.1    | 277.0    | 392.0    | 324.0    | 277.0    | 313.6    | 376.3    | 256.1    | 88.8     | 31.4     |
| 82.5° | 193.4    | 209.1    | 277.0    | 308.4    | 292.7    | 235.2    | 203.8    | 172.5    | 78.4     | 20.9     |
| 85°   | 141.1    | 162.0    | 193.4    | 172.5    | 167.2    | 167.2    | 224.7    | 151.6    | 57.5     | 15.7     |
| 87.5° | 83.6     | 83.6     | 88.8     | 83.6     | 78.4     | 78.4     | 88.8     | 73.2     | 36.6     | 10.5     |
| 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |

(END C

90°

532649.2

520873.9

488919.4

424080.0

332157.0

235791.6

146915.7

79818.5

41519.0

23832.6

15548.7

7902.4

5153.3

3731.7

2984.3

2524.4

2179.4

1824.0

1615.0

1599.3

1740.4

2038.3

2017.4

1991.3

1996.5

1986.1

1839.7

1635.9

1374.6

1113.2

836.2

627.2

480.8

318.8

177.7

109.8

78.4

31.4

20.9

15.7

10.5

10.5

0.0

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