

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: P635973

Luminaire Tested: **IFLD-M-SA4E-950-U-11-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P635973  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-950-U-11-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 1 distribution lens and Visor  
Light Source: (64) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19210.9 lumens  
Efficiency: N/A  
Efficacy: 61.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 314.8  
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



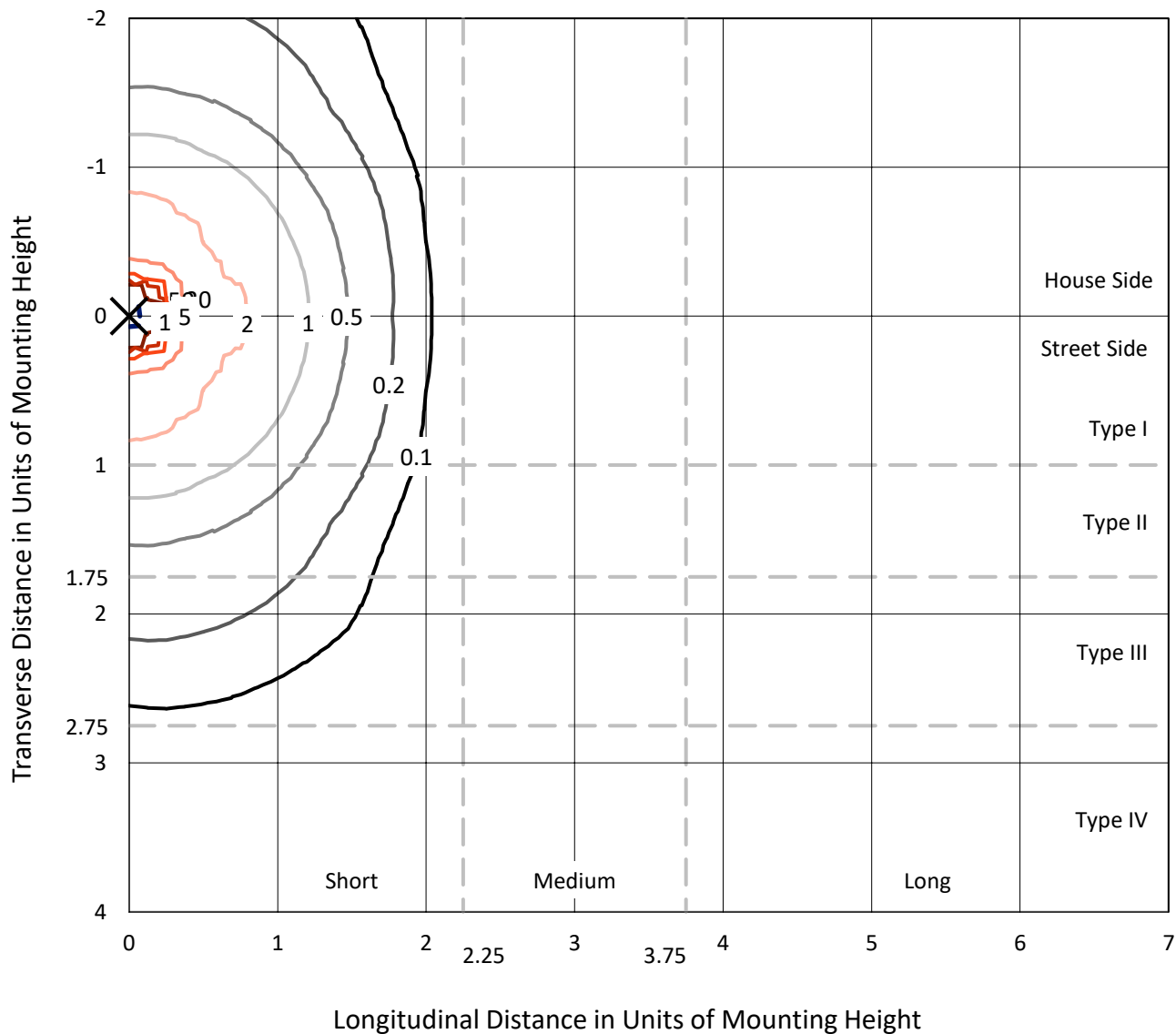
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

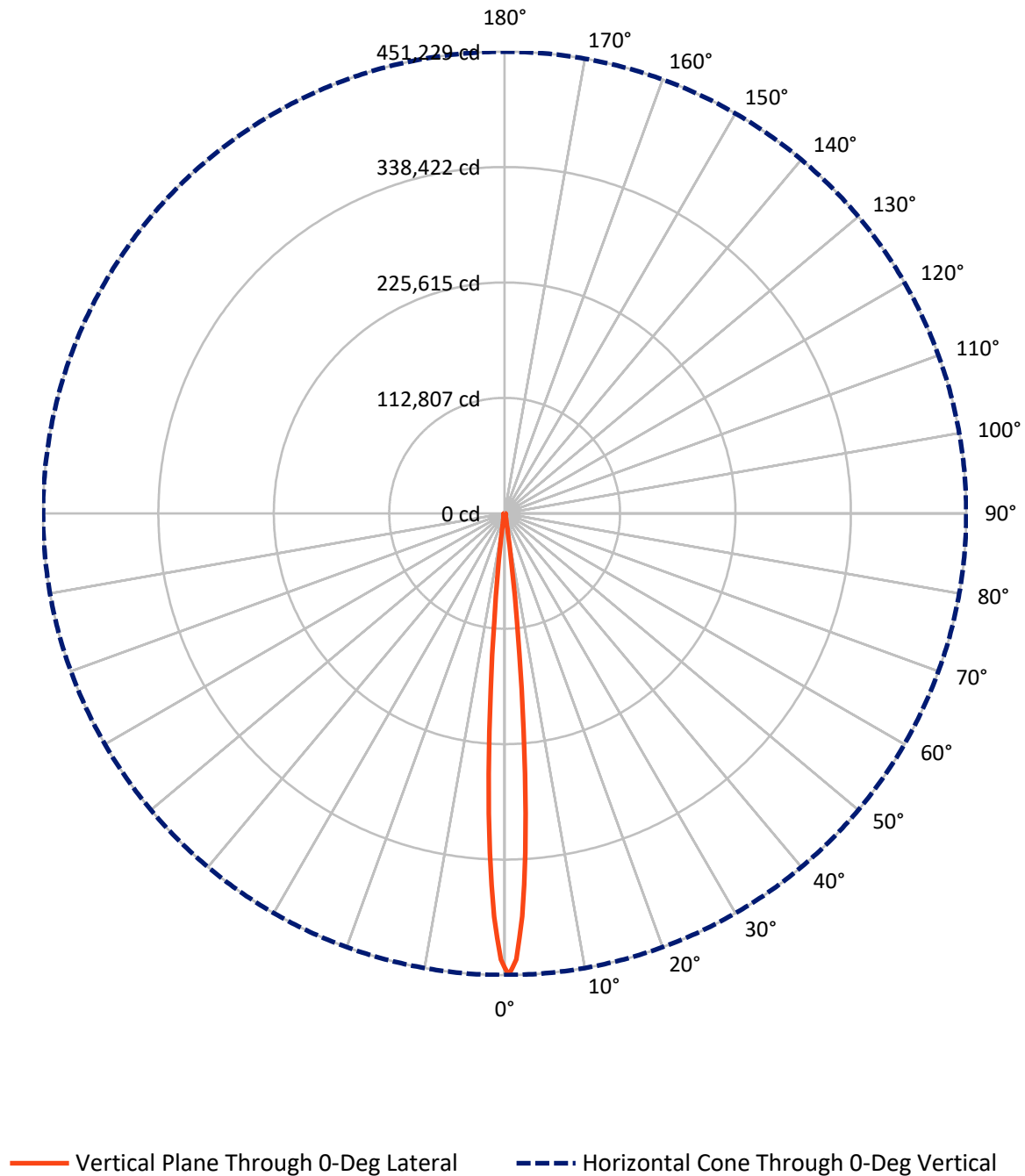


Based on 20 foot mounting height. Maximum calculated value = 1128.1 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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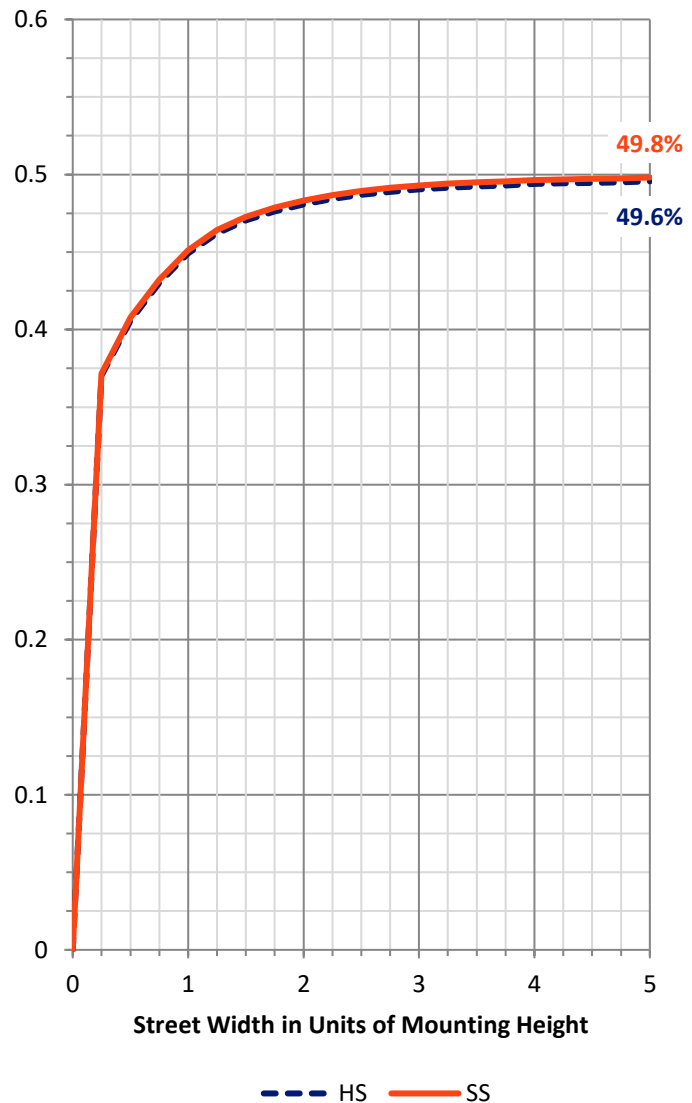
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9605.4   | 0.0    | 9605.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9605.4   | 0.0    | 9605.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19210.9  | 0.0    | 19210.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 12125.5 | 63.1      |
| 10°-20°   | 1498.6  | 7.8       |
| 20°-30°   | 897.9   | 4.7       |
| 30°-40°   | 965.4   | 5.0       |
| 40°-50°   | 1298.1  | 6.8       |
| 50°-60°   | 1157.1  | 6.0       |
| 60°-70°   | 764.3   | 4.0       |
| 70°-80°   | 379.0   | 2.0       |
| 80°-90°   | 125.1   | 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°    | 19210.9 | 100.0     |
| 0°-180°   | 19210.9 | 100.0     |



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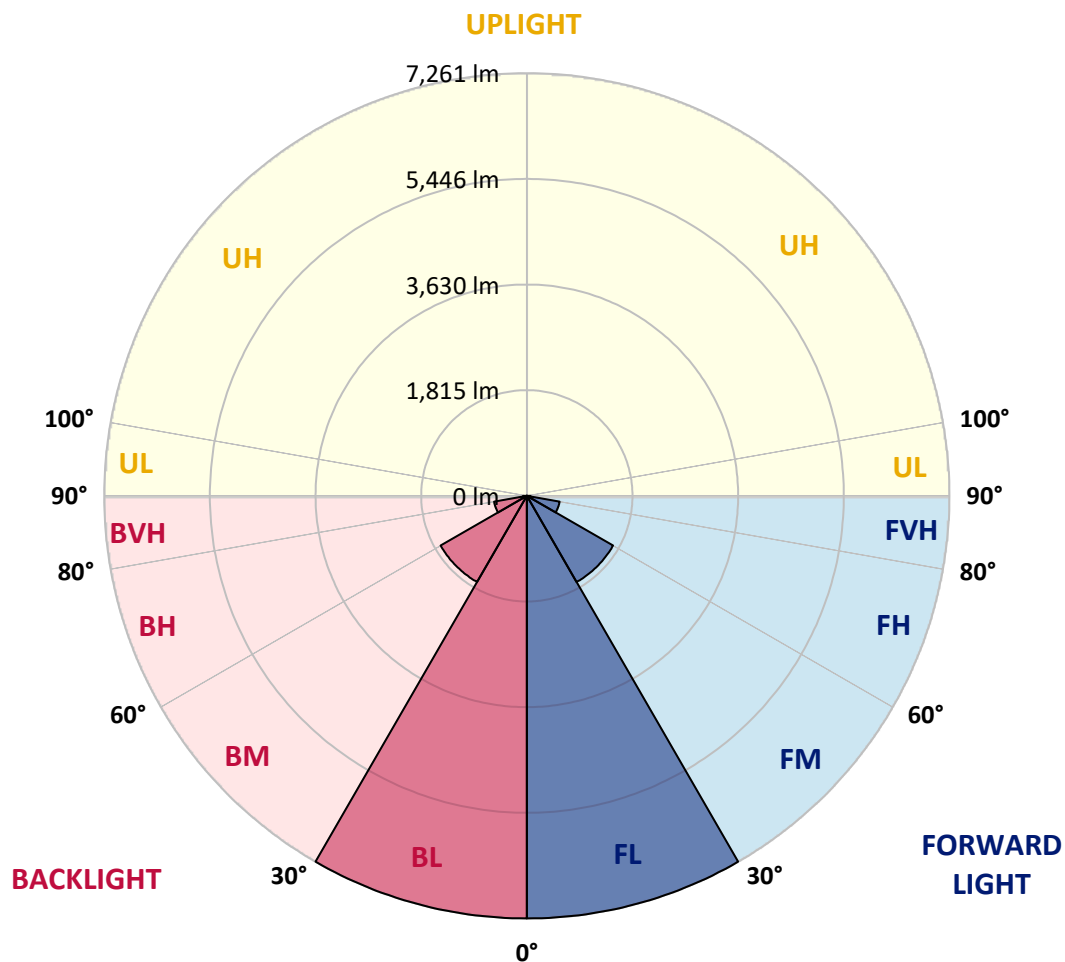
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 7260.9 | 37.8      |                         |      |        |
| FM   | (30°-60°)   | 1710.3 | 8.9       |                         |      |        |
| FH   | (60°-80°)   | 571.6  | 3.0       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 62.6   | 0.3       |                         |      | G1/100 |
| BL   | (0°-30°)    | 7260.9 | 37.8      | B5                      |      |        |
| BM   | (30°-60°)   | 1710.3 | 8.9       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 571.6  | 3.0       | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 62.6   | 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°    | 451229.0 | 451229.0 | 451229.0 | 451229.0 | 451229.0 | 451229.0 | 451229.0 | 451229.0 | 451229.0 | 451229.0 |
| 1°    | 436104.5 | 431628.2 | 433930.6 | 436131.0 | 439217.0 | 440576.3 | 441962.1 | 442998.2 | 442980.5 | 444689.5 |
| 2°    | 394454.6 | 387242.1 | 390584.9 | 394684.8 | 402614.5 | 404890.3 | 408693.5 | 413400.0 | 413687.8 | 417947.1 |
| 3°    | 332477.8 | 322352.0 | 327275.4 | 334576.4 | 347721.8 | 351122.2 | 357218.9 | 361522.5 | 359600.9 | 364586.3 |
| 4°    | 255132.9 | 241921.1 | 249443.5 | 260251.2 | 273046.8 | 286028.4 | 286285.2 | 289371.2 | 283035.3 | 282729.8 |
| 5°    | 172129.7 | 160480.9 | 170132.9 | 183650.2 | 194705.8 | 203777.8 | 209365.4 | 209750.6 | 202901.2 | 202276.9 |
| 6°    | 104981.6 | 97273.2  | 105672.3 | 119977.7 | 135292.5 | 139064.8 | 139919.3 | 137980.1 | 128996.6 | 124024.4 |
| 7°    | 58023.0  | 54879.4  | 63088.1  | 71624.4  | 83565.5  | 89086.7  | 85265.7  | 79067.1  | 76317.6  | 70398.0  |
| 8°    | 31997.9  | 30448.2  | 32790.4  | 40166.7  | 49433.6  | 53059.7  | 49371.6  | 42933.9  | 38298.3  | 36660.1  |
| 9°    | 19290.8  | 18431.9  | 19388.2  | 22195.3  | 26197.8  | 28712.6  | 26600.7  | 23430.6  | 21473.6  | 20929.0  |
| 10°   | 12813.3  | 12476.8  | 12884.2  | 13831.7  | 15270.6  | 16005.6  | 15478.7  | 14221.3  | 13628.0  | 13592.6  |
| 12.5° | 6725.4   | 6663.5   | 6765.3   | 6871.6   | 7119.5   | 7159.3   | 7066.4   | 6977.8   | 6840.6   | 6893.7   |
| 15°   | 4330.1   | 4272.6   | 4378.8   | 4516.1   | 4578.1   | 4617.9   | 4622.4   | 4573.7   | 4480.7   | 4436.4   |
| 17.5° | 3156.8   | 3170.1   | 3179.0   | 3258.7   | 3378.2   | 3471.2   | 3431.3   | 3378.2   | 3272.0   | 3218.8   |
| 20°   | 2599.0   | 2603.4   | 2621.1   | 2665.4   | 2705.2   | 2833.6   | 2793.8   | 2714.1   | 2612.3   | 2572.4   |
| 22.5° | 2222.6   | 2231.5   | 2240.3   | 2266.9   | 2275.8   | 2311.2   | 2315.6   | 2244.8   | 2187.2   | 2165.1   |
| 25°   | 1957.0   | 1957.0   | 1970.3   | 1992.4   | 2001.3   | 1974.7   | 1979.1   | 1948.1   | 1895.0   | 1868.4   |
| 27.5° | 1660.3   | 1669.2   | 1682.5   | 1691.3   | 1673.6   | 1642.6   | 1602.8   | 1629.3   | 1602.8   | 1540.8   |
| 30°   | 1478.8   | 1487.7   | 1527.5   | 1500.9   | 1461.1   | 1421.2   | 1399.1   | 1434.5   | 1439.0   | 1385.8   |
| 32.5° | 1465.5   | 1469.9   | 1483.2   | 1469.9   | 1421.2   | 1372.5   | 1341.5   | 1381.4   | 1390.2   | 1368.1   |
| 35°   | 1531.9   | 1518.6   | 1536.4   | 1545.2   | 1496.5   | 1443.4   | 1403.5   | 1439.0   | 1465.5   | 1474.4   |
| 37.5° | 1855.1   | 1779.9   | 1722.3   | 1704.6   | 1673.6   | 1638.2   | 1585.1   | 1593.9   | 1642.6   | 1686.9   |
| 40°   | 1766.6   | 1748.9   | 1726.7   | 1669.2   | 1611.6   | 1655.9   | 1593.9   | 1576.2   | 1686.9   | 1695.8   |
| 42.5° | 1753.3   | 1766.6   | 1748.9   | 1678.0   | 1620.5   | 1664.8   | 1651.5   | 1598.3   | 1709.0   | 1695.8   |
| 45°   | 1762.2   | 1775.4   | 1815.3   | 1695.8   | 1647.0   | 1669.2   | 1695.8   | 1638.2   | 1748.9   | 1704.6   |
| 47.5° | 1691.3   | 1709.0   | 1753.3   | 1686.9   | 1655.9   | 1651.5   | 1691.3   | 1638.2   | 1695.8   | 1691.3   |
| 50°   | 1598.3   | 1616.1   | 1629.3   | 1571.8   | 1629.3   | 1598.3   | 1602.8   | 1580.6   | 1580.6   | 1589.5   |
| 52.5° | 1478.8   | 1496.5   | 1509.8   | 1443.4   | 1478.8   | 1492.1   | 1439.0   | 1434.5   | 1394.7   | 1408.0   |
| 55°   | 1332.7   | 1359.3   | 1372.5   | 1346.0   | 1328.3   | 1354.8   | 1279.6   | 1270.7   | 1191.0   | 1195.4   |
| 57.5° | 1164.4   | 1191.0   | 1204.3   | 1235.3   | 1222.0   | 1168.9   | 1124.6   | 1089.2   | 1000.6   | 965.2    |
| 60°   | 1199.9   | 1226.4   | 1199.9   | 1111.3   | 1111.3   | 991.8    | 951.9    | 876.7    | 788.1    | 743.8    |
| 62.5° | 1160.0   | 1195.4   | 1191.0   | 1098.0   | 987.3    | 836.8    | 766.0    | 686.3    | 597.7    | 540.2    |
| 65°   | 1093.6   | 1129.0   | 1111.3   | 1049.3   | 943.1    | 717.3    | 611.0    | 531.3    | 420.6    | 407.3    |
| 67.5° | 982.9    | 1036.0   | 1000.6   | 960.8    | 876.7    | 650.8    | 487.0    | 398.5    | 305.5    | 305.5    |
| 70°   | 814.7    | 854.5    | 876.7    | 832.4    | 783.7    | 611.0    | 416.2    | 305.5    | 221.4    | 168.2    |
| 72.5° | 655.3    | 690.7    | 726.1    | 704.0    | 659.7    | 553.4    | 371.9    | 243.5    | 159.4    | 97.4     |
| 75°   | 363.1    | 376.3    | 389.6    | 442.8    | 504.7    | 451.6    | 340.9    | 212.5    | 132.8    | 75.3     |
| 77.5° | 278.9    | 292.2    | 323.2    | 296.6    | 274.5    | 349.8    | 371.9    | 247.9    | 115.1    | 53.1     |
| 80°   | 216.9    | 234.7    | 332.1    | 274.5    | 234.7    | 265.7    | 318.8    | 216.9    | 75.3     | 26.6     |
| 82.5° | 163.8    | 177.1    | 234.7    | 261.2    | 247.9    | 199.2    | 172.7    | 146.1    | 66.4     | 17.7     |
| 85°   | 119.5    | 137.3    | 163.8    | 146.1    | 141.7    | 141.7    | 190.4    | 128.4    | 48.7     | 13.3     |
| 87.5° | 70.8     | 70.8     | 75.3     | 70.8     | 66.4     | 66.4     | 75.3     | 62.0     | 31.0     | 8.9      |
| 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |

(END C

90°

451229.0  
441253.7  
414183.7  
359255.6  
281383.9  
199748.8  
124458.3  
67617.5  
35172.4  
20189.6  
13172.0  
6694.5  
4365.6  
3161.3  
2528.1  
2138.5  
1846.3  
1545.2  
1368.1  
1354.8  
1474.4  
1726.7  
1709.0  
1686.9  
1691.3  
1682.5  
1558.5  
1385.8  
1164.4  
943.1  
708.4  
531.3  
407.3  
270.1  
150.5  
93.0  
66.4  
26.6  
17.7  
13.3  
8.9  
8.9  
0.0

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