

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: P525332

Luminaire Tested: **IFLD-S-SA6D-935-U-11**

Issue Date: 05/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P525332  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-935-U-11  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 11 distribution lens  
Light Source: (96) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

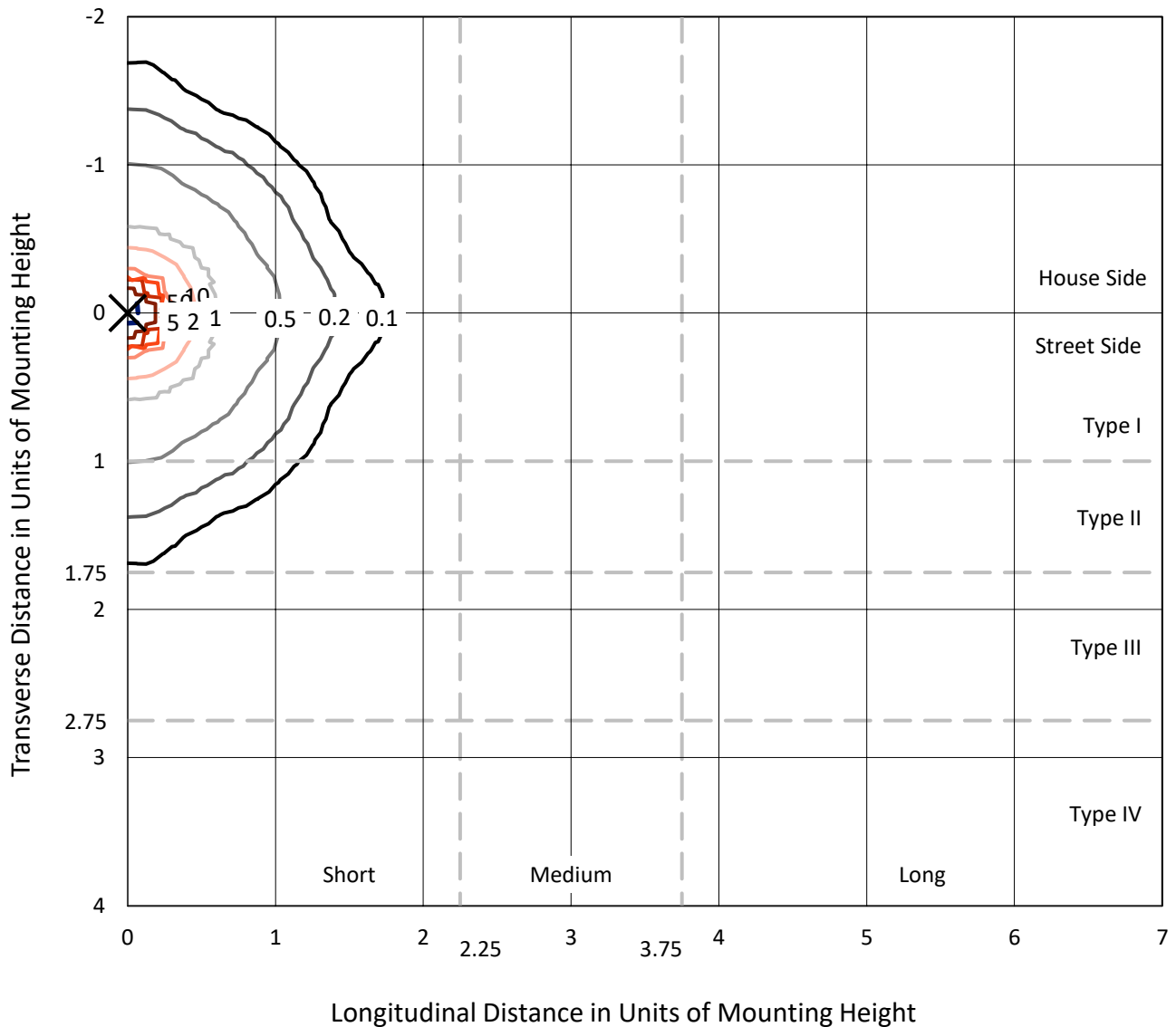
Lumens per Lamp: N/A  
Luminaire Lumens: 17519.3 lumens  
Efficiency: N/A  
Efficacy: 47.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G0

Input Watts (W): 368.2  
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

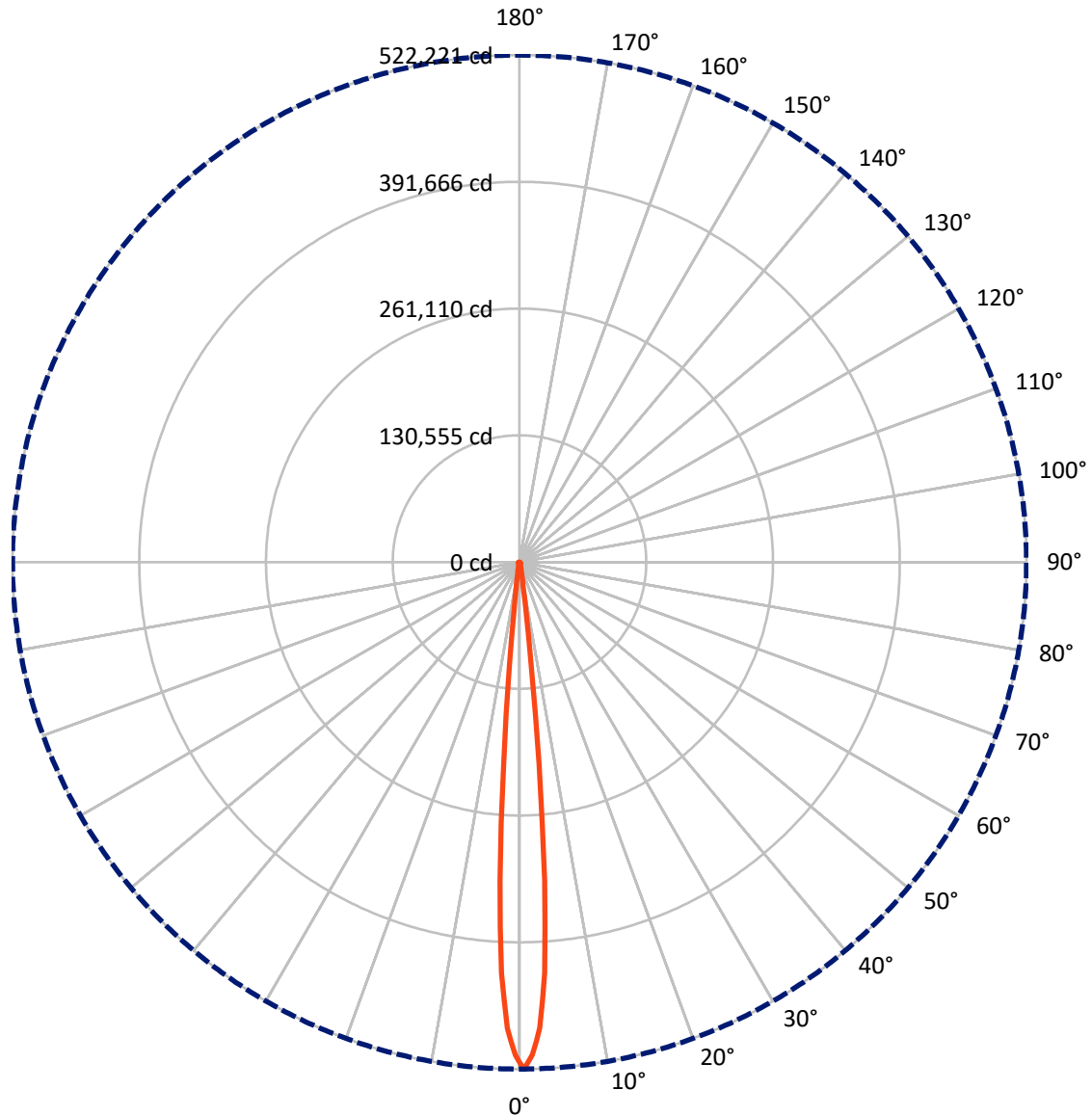
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 835.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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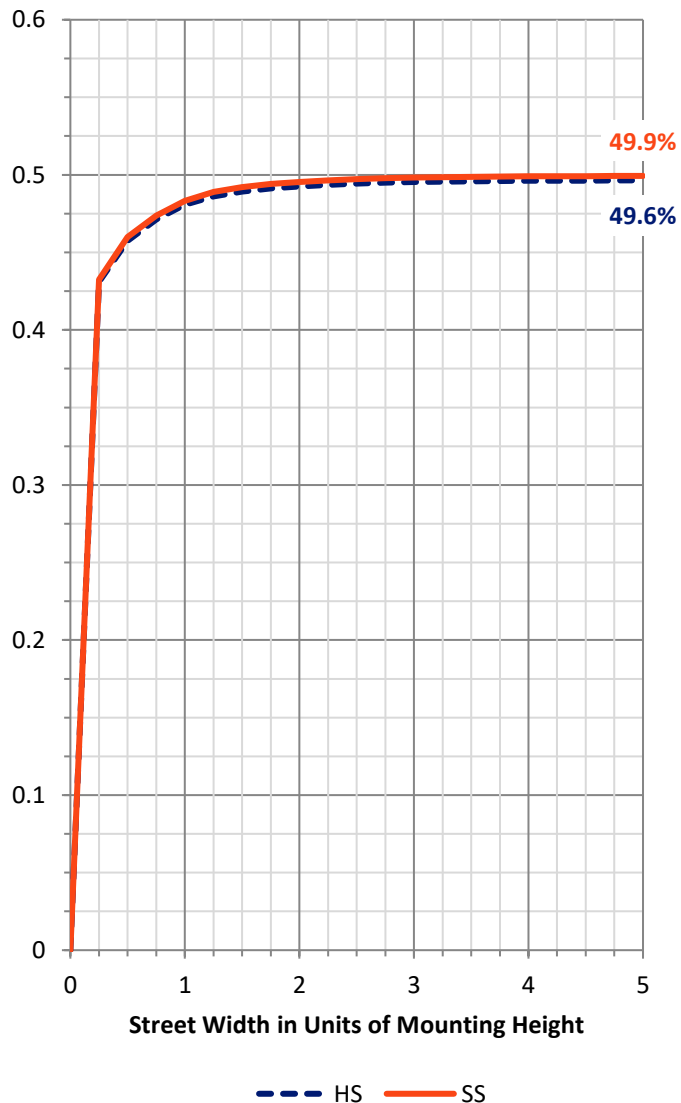
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8759.7   | 0.0    | 8759.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8759.7   | 0.0    | 8759.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17519.3  | 0.0    | 17519.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 13454.8 | 76.8      |
| 10°-20°   | 1312.3  | 7.5       |
| 20°-30°   | 701.1   | 4.0       |
| 30°-40°   | 578.2   | 3.3       |
| 40°-50°   | 643.8   | 3.7       |
| 50°-60°   | 433.0   | 2.5       |
| 60°-70°   | 276.3   | 1.6       |
| 70°-80°   | 109.1   | 0.6       |
| 80°-90°   | 10.7    | 0.1       |
| 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°    | 17519.3 | 100.0     |
| 0°-180°   | 17519.3 | 100.0     |

**Coefficient of Utilization**



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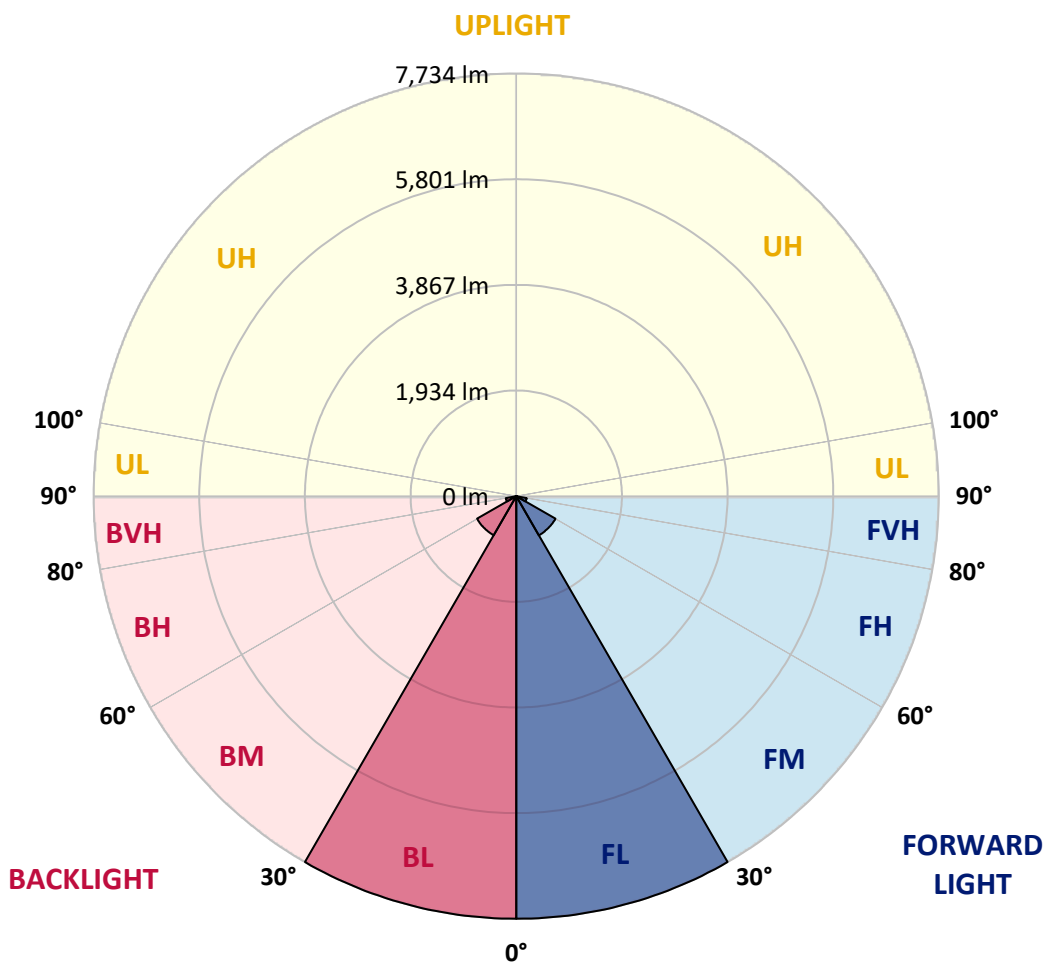
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 7734.1 | 44.1      |                         |      |        |
| FM (30°-60°)   | 827.5  | 4.7       |                         |      |        |
| FH (60°-80°)   | 192.7  | 1.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 5.4    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 7734.1 | 44.1      | B5                      |      |        |
| BM (30°-60°)   | 827.5  | 4.7       | B1/1000                 |      |        |
| BH (60°-80°)   | 192.7  | 1.1       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 5.4    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°       | 5°       | 15°      | 25°      | 35°      | 45°      | 55°      | 65°      | 75°      | 85°      |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0°    | 522220.7 | 522220.7 | 522220.7 | 522220.7 | 522220.7 | 522220.7 | 522220.7 | 522220.7 | 522220.7 | 522220.7 |
| 1°    | 507706.7 | 508589.6 | 508748.9 | 507697.6 | 505016.9 | 505649.5 | 505567.6 | 505708.7 | 505444.7 | 503769.9 |
| 2°    | 480217.1 | 481523.3 | 480148.8 | 477199.6 | 471091.8 | 469635.4 | 464770.1 | 459340.5 | 453560.4 | 447766.6 |
| 3°    | 424104.6 | 426853.6 | 424892.0 | 428041.4 | 415652.9 | 414401.3 | 404170.1 | 390680.1 | 377008.2 | 365930.4 |
| 4°    | 328824.0 | 333903.2 | 334576.8 | 344971.8 | 334795.2 | 337976.6 | 326288.9 | 307546.8 | 287093.5 | 271446.2 |
| 5°    | 209599.2 | 216680.9 | 220676.9 | 230425.7 | 235113.5 | 247320.0 | 241626.4 | 222816.0 | 199181.3 | 181181.1 |
| 6°    | 105903.3 | 109758.2 | 120494.6 | 131212.8 | 143182.6 | 159380.6 | 161574.3 | 145062.3 | 126251.9 | 108975.4 |
| 7°    | 49367.5  | 50960.5  | 58533.8  | 60818.5  | 74504.1  | 92076.5  | 94534.2  | 85481.8  | 75560.0  | 62170.2  |
| 8°    | 25509.8  | 26128.8  | 28895.9  | 30593.6  | 38576.5  | 48684.8  | 50409.8  | 44711.6  | 40651.9  | 33916.0  |
| 9°    | 15710.9  | 15984.0  | 17021.7  | 17404.0  | 20389.6  | 24886.3  | 25496.2  | 23111.3  | 22009.9  | 19684.2  |
| 10°   | 10895.7  | 11041.4  | 11528.3  | 11628.5  | 12625.2  | 14104.4  | 14159.0  | 13376.2  | 13394.4  | 12811.8  |
| 12.5° | 5807.4   | 5852.9   | 5989.5   | 6003.1   | 6194.3   | 6349.0   | 6312.6   | 6317.1   | 6394.5   | 6317.1   |
| 15°   | 3713.8   | 3736.6   | 3818.5   | 3836.7   | 3936.8   | 3991.5   | 3964.1   | 3959.6   | 3986.9   | 3936.8   |
| 17.5° | 2648.8   | 2662.5   | 2721.7   | 2771.7   | 2835.4   | 2853.6   | 2844.5   | 2835.4   | 2835.4   | 2789.9   |
| 20°   | 2066.3   | 2084.5   | 2125.4   | 2175.5   | 2207.4   | 2239.2   | 2243.8   | 2239.2   | 2225.6   | 2202.8   |
| 22.5° | 1756.8   | 1765.9   | 1779.5   | 1802.3   | 1825.1   | 1838.7   | 1847.8   | 1852.4   | 1847.8   | 1838.7   |
| 25°   | 1529.2   | 1538.3   | 1565.6   | 1579.3   | 1579.3   | 1583.8   | 1602.0   | 1611.1   | 1615.7   | 1597.5   |
| 27.5° | 1128.7   | 1151.5   | 1192.4   | 1215.2   | 1215.2   | 1224.3   | 1237.9   | 1256.1   | 1274.4   | 1242.5   |
| 30°   | 873.8    | 892.0    | 937.6    | 937.6    | 933.0    | 942.1    | 955.8    | 983.1    | 1010.4   | 974.0    |
| 32.5° | 787.4    | 787.4    | 796.5    | 801.0    | 801.0    | 814.7    | 823.8    | 846.5    | 869.3    | 860.2    |
| 35°   | 823.8    | 801.0    | 773.7    | 773.7    | 782.8    | 810.1    | 814.7    | 837.4    | 860.2    | 892.0    |
| 37.5° | 1197.0   | 1128.7   | 1028.6   | 1010.4   | 1010.4   | 1042.2   | 1028.6   | 1042.2   | 1083.2   | 1201.5   |
| 40°   | 1087.8   | 1033.1   | 974.0    | 892.0    | 892.0    | 937.6    | 905.7    | 923.9    | 1019.5   | 1092.3   |
| 42.5° | 969.4    | 969.4    | 905.7    | 828.3    | 828.3    | 851.1    | 842.0    | 851.1    | 960.3    | 1019.5   |
| 45°   | 896.6    | 896.6    | 878.4    | 755.5    | 773.7    | 787.4    | 787.4    | 787.4    | 933.0    | 951.2    |
| 47.5° | 855.6    | 855.6    | 810.1    | 696.3    | 719.1    | 723.7    | 732.8    | 723.7    | 837.4    | 901.1    |
| 50°   | 764.6    | 773.7    | 696.3    | 614.4    | 641.7    | 641.7    | 655.4    | 637.2    | 723.7    | 828.3    |
| 52.5° | 659.9    | 669.0    | 550.7    | 487.0    | 518.8    | 514.3    | 532.5    | 505.2    | 573.5    | 719.1    |
| 55°   | 587.1    | 582.6    | 455.1    | 396.0    | 432.4    | 427.8    | 436.9    | 405.1    | 464.2    | 619.0    |
| 57.5° | 509.7    | 518.8    | 373.2    | 323.1    | 364.1    | 355.0    | 368.7    | 332.2    | 382.3    | 550.7    |
| 60°   | 450.6    | 464.2    | 318.6    | 273.1    | 314.0    | 304.9    | 318.6    | 277.6    | 327.7    | 496.1    |
| 62.5° | 432.4    | 432.4    | 282.2    | 232.1    | 273.1    | 264.0    | 273.1    | 232.1    | 291.3    | 455.1    |
| 65°   | 514.3    | 487.0    | 254.9    | 191.2    | 232.1    | 223.0    | 232.1    | 191.2    | 254.9    | 436.9    |
| 67.5° | 682.7    | 650.8    | 241.2    | 150.2    | 186.6    | 172.9    | 186.6    | 154.7    | 223.0    | 409.6    |
| 70°   | 355.0    | 377.8    | 241.2    | 118.3    | 141.1    | 141.1    | 136.5    | 118.3    | 186.6    | 300.4    |
| 72.5° | 204.8    | 209.4    | 186.6    | 91.0     | 109.2    | 118.3    | 104.7    | 91.0     | 136.5    | 223.0    |
| 75°   | 113.8    | 127.4    | 118.3    | 68.3     | 81.9     | 91.0     | 77.4     | 68.3     | 95.6     | 159.3    |
| 77.5° | 68.3     | 77.4     | 68.3     | 45.5     | 54.6     | 50.1     | 54.6     | 45.5     | 63.7     | 104.7    |
| 80°   | 36.4     | 36.4     | 36.4     | 27.3     | 27.3     | 31.9     | 31.9     | 27.3     | 36.4     | 54.6     |
| 82.5° | 13.7     | 13.7     | 13.7     | 9.1      | 13.7     | 13.7     | 13.7     | 18.2     | 18.2     | 22.8     |
| 85°   | 4.6      | 4.6      | 4.6      | 4.6      | 4.6      | 4.6      | 4.6      | 4.6      | 4.6      | 4.6      |
| 87.5° | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 4.6      | 4.6      | 4.6      | 4.6      | 4.6      |
| 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |

(END C



90°  
522220.7  
505422.0  
451102.7  
370131.2  
275073.6  
183488.6  
110267.9  
63790.5  
34830.8  
20189.4  
13080.3  
6403.6  
3973.2  
2803.6  
2207.4  
1843.3  
1597.5  
1237.9  
964.9  
860.2  
910.3  
1260.7  
1160.6  
1024.0  
946.7  
887.5  
819.2  
700.9  
609.9  
537.0  
482.4  
450.6  
436.9  
405.1  
295.8  
218.5  
141.1  
77.4  
45.5  
22.8  
4.6  
4.6  
0.0

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