

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: P635910

Luminaire Tested: **IFLD-S-SA6E-935-U-11-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P635910  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-935-U-11-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 1 distribution lens and Visor  
Light Source: (96) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25799.8 lumens  
Efficiency: N/A  
Efficacy: 55.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 464.2  
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: 25 FT



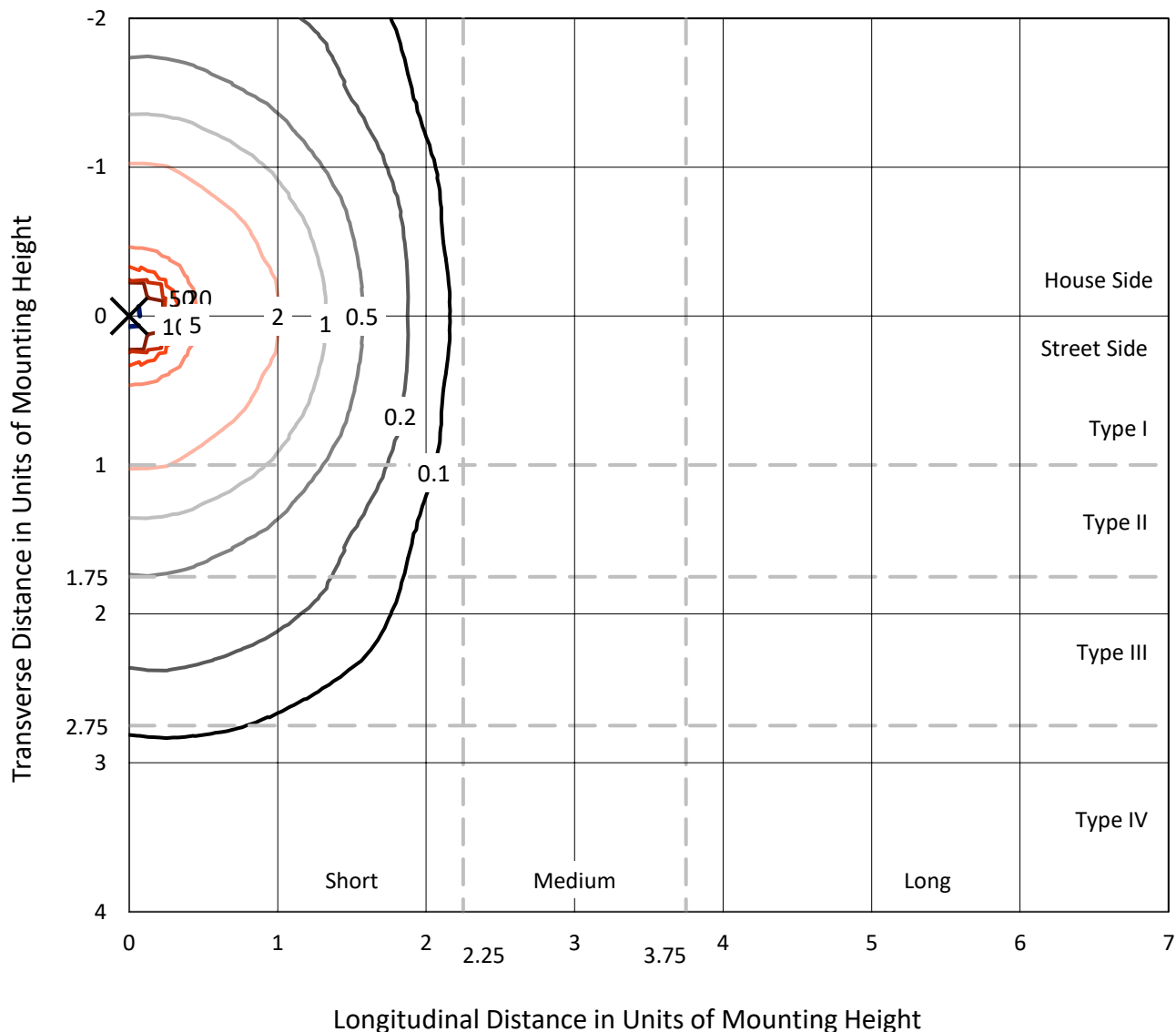
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

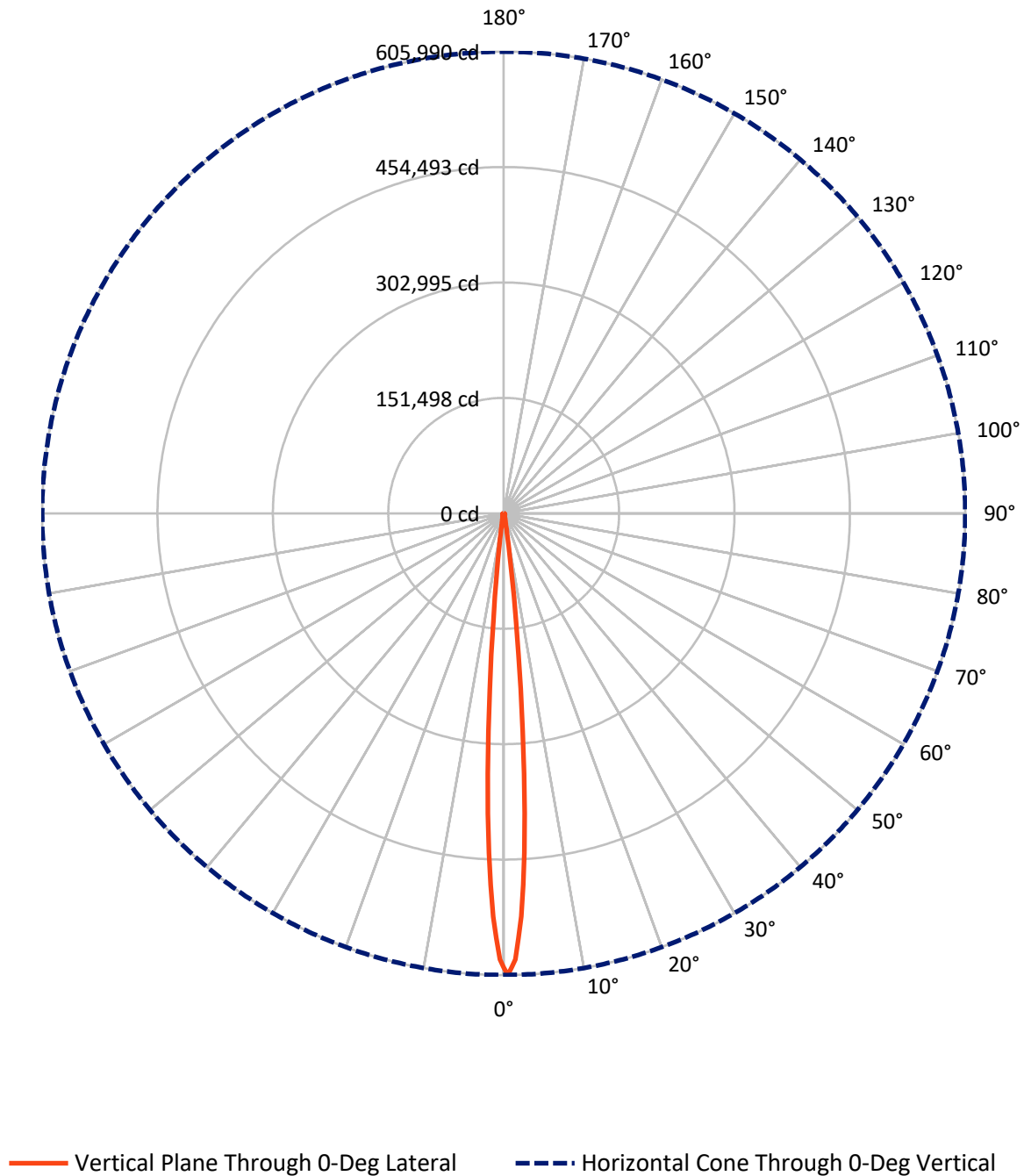
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1515 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    | 12899.9  | 0.0    | 12899.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12899.9  | 0.0    | 12899.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25799.8  | 0.0    | 25799.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 16284.2 | 63.1      |
| 10°-20°   | 2012.5  | 7.8       |
| 20°-30°   | 1205.8  | 4.7       |
| 30°-40°   | 1296.5  | 5.0       |
| 40°-50°   | 1743.3  | 6.8       |
| 50°-60°   | 1554.0  | 6.0       |
| 60°-70°   | 1026.5  | 4.0       |
| 70°-80°   | 509.0   | 2.0       |
| 80°-90°   | 168.0   | 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°    | 25799.8 | 100.0     |
| 0°-180°   | 25799.8 | 100.0     |



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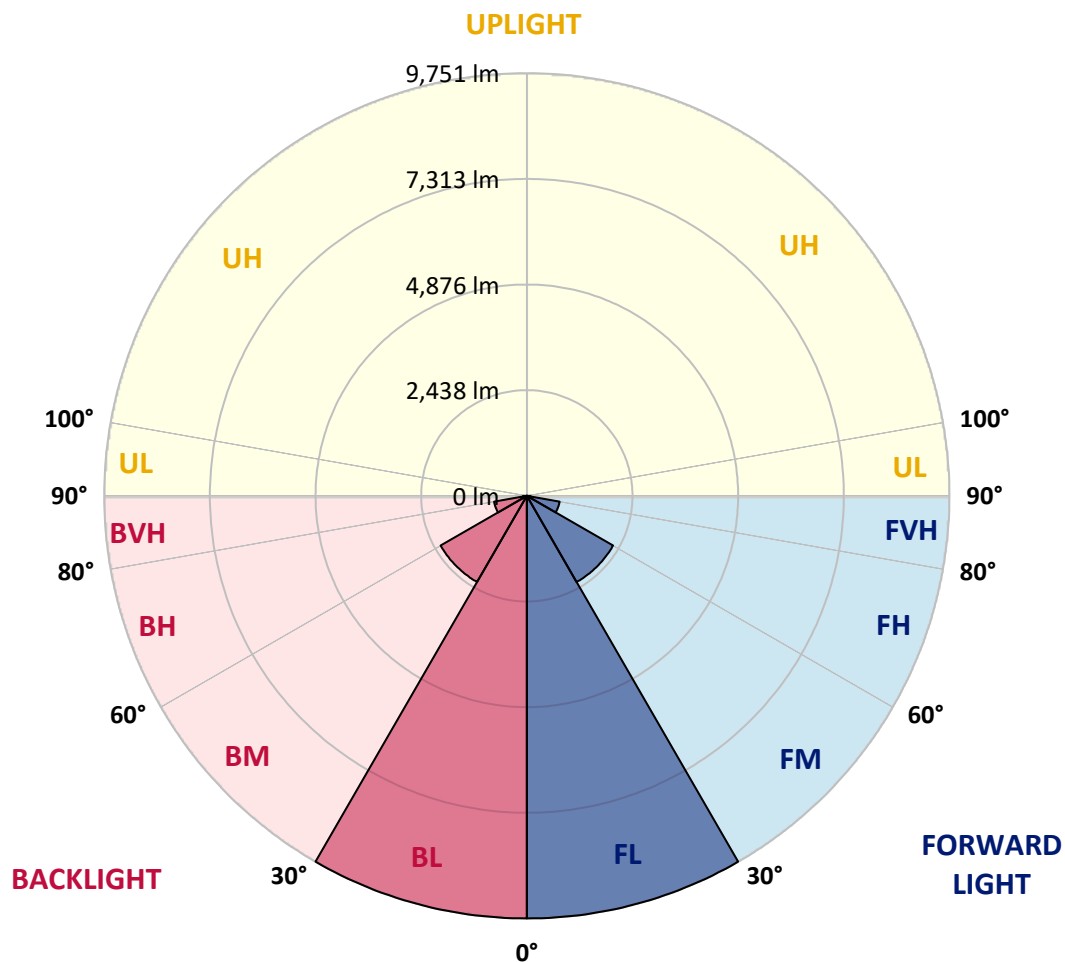
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 9751.3 | 37.8      |                         |      |         |
| FM   | (30°-60°)   | 2296.9 | 8.9       |                         |      |         |
| FH   | (60°-80°)   | 767.7  | 3.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 84.0   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 9751.3 | 37.8      | B5                      |      |         |
| BM   | (30°-60°)   | 2296.9 | 8.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 767.7  | 3.0       | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 84.0   | 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°    | 605990.3 | 605990.3 | 605990.3 | 605990.3 | 605990.3 | 605990.3 | 605990.3 | 605990.3 | 605990.3 | 605990.3 |
| 1°    | 585678.4 | 579666.9 | 582758.9 | 585714.1 | 589858.5 | 591684.0 | 593545.1 | 594936.5 | 594912.7 | 597207.9 |
| 2°    | 529743.5 | 520057.3 | 524546.6 | 530052.7 | 540702.1 | 543758.4 | 548866.1 | 555186.8 | 555573.3 | 561293.5 |
| 3°    | 446510.1 | 432911.3 | 439523.4 | 449328.5 | 466982.5 | 471549.1 | 479736.8 | 485516.4 | 482935.8 | 489631.1 |
| 4°    | 342637.7 | 324894.6 | 334997.0 | 349511.4 | 366695.6 | 384129.6 | 384474.5 | 388618.9 | 380110.0 | 379699.7 |
| 5°    | 231166.3 | 215522.1 | 228484.6 | 246638.0 | 261485.4 | 273669.0 | 281173.0 | 281690.3 | 272491.7 | 271653.3 |
| 6°    | 140987.8 | 130635.7 | 141915.4 | 161127.3 | 181694.8 | 186760.9 | 187908.5 | 185304.1 | 173239.5 | 166562.0 |
| 7°    | 77923.6  | 73701.8  | 84725.9  | 96190.0  | 112226.6 | 119641.4 | 114509.9 | 106185.4 | 102492.8 | 94542.9  |
| 8°    | 42972.4  | 40891.3  | 44036.8  | 53943.0  | 66388.1  | 71258.0  | 66304.9  | 57659.3  | 51433.7  | 49233.7  |
| 9°    | 25907.1  | 24753.6  | 26037.9  | 29807.8  | 35183.0  | 38560.4  | 35724.1  | 31466.7  | 28838.6  | 28107.2  |
| 10°   | 17208.0  | 16756.1  | 17303.1  | 18575.6  | 20508.1  | 21495.1  | 20787.5  | 19098.9  | 18302.1  | 18254.5  |
| 12.5° | 9032.1   | 8948.9   | 9085.6   | 9228.3   | 9561.3   | 9614.8   | 9490.0   | 9371.0   | 9186.7   | 9258.1   |
| 15°   | 5815.3   | 5738.0   | 5880.7   | 6065.0   | 6148.3   | 6201.8   | 6207.7   | 6142.3   | 6017.4   | 5958.0   |
| 17.5° | 4239.6   | 4257.4   | 4269.3   | 4376.3   | 4536.9   | 4661.7   | 4608.2   | 4536.9   | 4394.2   | 4322.8   |
| 20°   | 3490.4   | 3496.3   | 3520.1   | 3579.5   | 3633.1   | 3805.5   | 3752.0   | 3645.0   | 3508.2   | 3454.7   |
| 22.5° | 2984.9   | 2996.8   | 3008.7   | 3044.4   | 3056.3   | 3103.9   | 3109.8   | 3014.7   | 2937.4   | 2907.6   |
| 25°   | 2628.2   | 2628.2   | 2646.0   | 2675.7   | 2687.6   | 2652.0   | 2657.9   | 2616.3   | 2544.9   | 2509.3   |
| 27.5° | 2229.8   | 2241.7   | 2259.5   | 2271.4   | 2247.6   | 2206.0   | 2152.5   | 2188.2   | 2152.5   | 2069.2   |
| 30°   | 1986.0   | 1997.9   | 2051.4   | 2015.7   | 1962.2   | 1908.7   | 1879.0   | 1926.5   | 1932.5   | 1861.1   |
| 32.5° | 1968.2   | 1974.1   | 1991.9   | 1974.1   | 1908.7   | 1843.3   | 1801.7   | 1855.2   | 1867.1   | 1837.3   |
| 35°   | 2057.3   | 2039.5   | 2063.3   | 2075.2   | 2009.8   | 1938.4   | 1884.9   | 1932.5   | 1968.2   | 1980.0   |
| 37.5° | 2491.4   | 2390.3   | 2313.0   | 2289.2   | 2247.6   | 2200.1   | 2128.7   | 2140.6   | 2206.0   | 2265.5   |
| 40°   | 2372.5   | 2348.7   | 2319.0   | 2241.7   | 2164.4   | 2223.8   | 2140.6   | 2116.8   | 2265.5   | 2277.4   |
| 42.5° | 2354.7   | 2372.5   | 2348.7   | 2253.6   | 2176.3   | 2235.7   | 2217.9   | 2146.5   | 2295.2   | 2277.4   |
| 45°   | 2366.5   | 2384.4   | 2437.9   | 2277.4   | 2211.9   | 2241.7   | 2277.4   | 2200.1   | 2348.7   | 2289.2   |
| 47.5° | 2271.4   | 2295.2   | 2354.7   | 2265.5   | 2223.8   | 2217.9   | 2271.4   | 2200.1   | 2277.4   | 2271.4   |
| 50°   | 2146.5   | 2170.3   | 2188.2   | 2110.9   | 2188.2   | 2146.5   | 2152.5   | 2122.8   | 2122.8   | 2134.6   |
| 52.5° | 1986.0   | 2009.8   | 2027.6   | 1938.4   | 1986.0   | 2003.8   | 1932.5   | 1926.5   | 1873.0   | 1890.9   |
| 55°   | 1789.8   | 1825.5   | 1843.3   | 1807.6   | 1783.8   | 1819.5   | 1718.4   | 1706.5   | 1599.5   | 1605.4   |
| 57.5° | 1563.8   | 1599.5   | 1617.3   | 1659.0   | 1641.1   | 1569.8   | 1510.3   | 1462.7   | 1343.8   | 1296.2   |
| 60°   | 1611.4   | 1647.1   | 1611.4   | 1492.5   | 1492.5   | 1331.9   | 1278.4   | 1177.3   | 1058.4   | 998.9    |
| 62.5° | 1557.9   | 1605.4   | 1599.5   | 1474.6   | 1326.0   | 1123.8   | 1028.7   | 921.6    | 802.7    | 725.4    |
| 65°   | 1468.7   | 1516.3   | 1492.5   | 1409.2   | 1266.5   | 963.3    | 820.6    | 713.5    | 564.9    | 547.0    |
| 67.5° | 1320.0   | 1391.4   | 1343.8   | 1290.3   | 1177.3   | 874.1    | 654.1    | 535.1    | 410.3    | 410.3    |
| 70°   | 1094.1   | 1147.6   | 1177.3   | 1117.9   | 1052.5   | 820.6    | 558.9    | 410.3    | 297.3    | 226.0    |
| 72.5° | 880.0    | 927.6    | 975.2    | 945.4    | 886.0    | 743.3    | 499.5    | 327.0    | 214.1    | 130.8    |
| 75°   | 487.6    | 505.4    | 523.3    | 594.6    | 677.9    | 606.5    | 457.8    | 285.4    | 178.4    | 101.1    |
| 77.5° | 374.6    | 392.4    | 434.1    | 398.4    | 368.7    | 469.7    | 499.5    | 333.0    | 154.6    | 71.4     |
| 80°   | 291.4    | 315.1    | 446.0    | 368.7    | 315.1    | 356.8    | 428.1    | 291.4    | 101.1    | 35.7     |
| 82.5° | 220.0    | 237.8    | 315.1    | 350.8    | 333.0    | 267.6    | 231.9    | 196.2    | 89.2     | 23.8     |
| 85°   | 160.5    | 184.3    | 220.0    | 196.2    | 190.3    | 190.3    | 255.7    | 172.4    | 65.4     | 17.8     |
| 87.5° | 95.1     | 95.1     | 101.1    | 95.1     | 89.2     | 89.2     | 101.1    | 83.2     | 41.6     | 11.9     |
| 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |

(END C



90°  
605990.3  
592593.7  
556239.3  
482472.0  
377892.1  
268258.0  
167144.7  
90808.8  
47235.8  
27114.2  
17689.6  
8990.5  
5862.8  
4245.5  
3395.2  
2872.0  
2479.5  
2075.2  
1837.3  
1819.5  
1980.0  
2319.0  
2295.2  
2265.5  
2271.4  
2259.5  
2093.0  
1861.1  
1563.8  
1266.5  
951.4  
713.5  
547.0  
362.7  
202.2  
124.9  
89.2  
35.7  
23.8  
17.8  
11.9  
11.9  
0.0

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