

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: P524280

Luminaire Tested: **IFLD-S-SA6E-927-U-55**

Issue Date: 05/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P524280  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-927-U-55  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55  
distribution lens  
Light Source: (96) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33139.3 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' 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: 24 FT

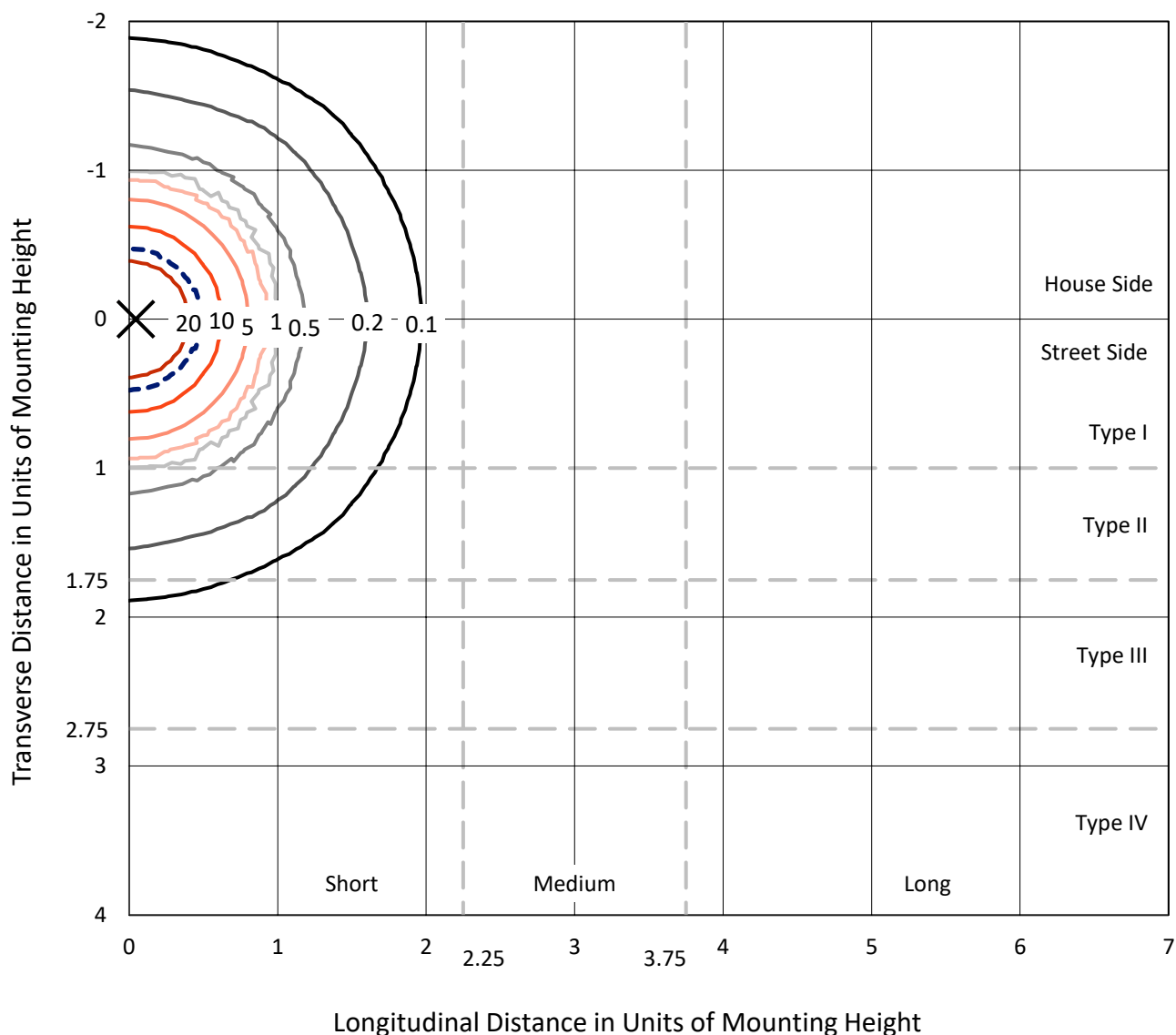
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

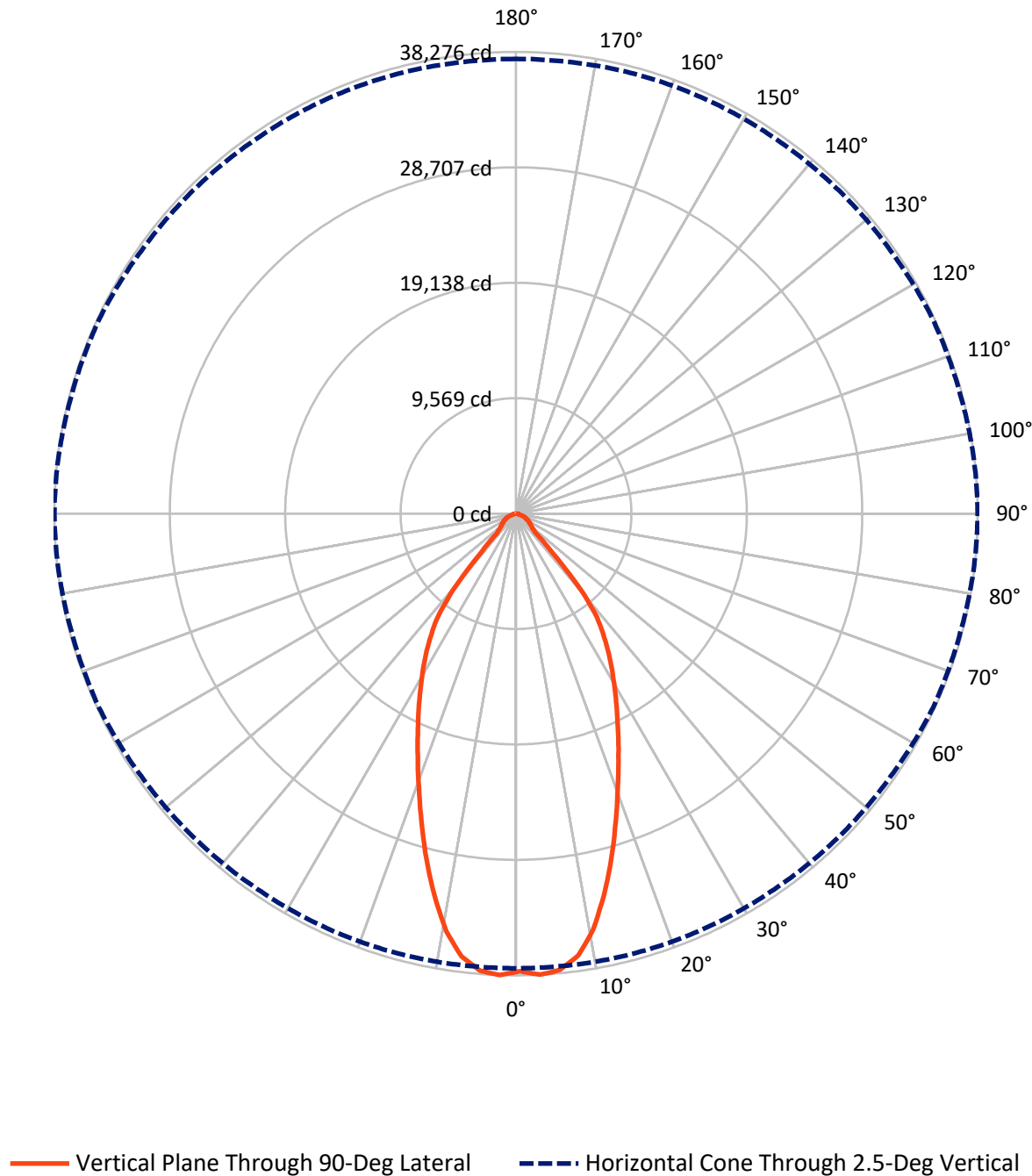


Based on 30 foot mounting height. Maximum calculated value = 42.1 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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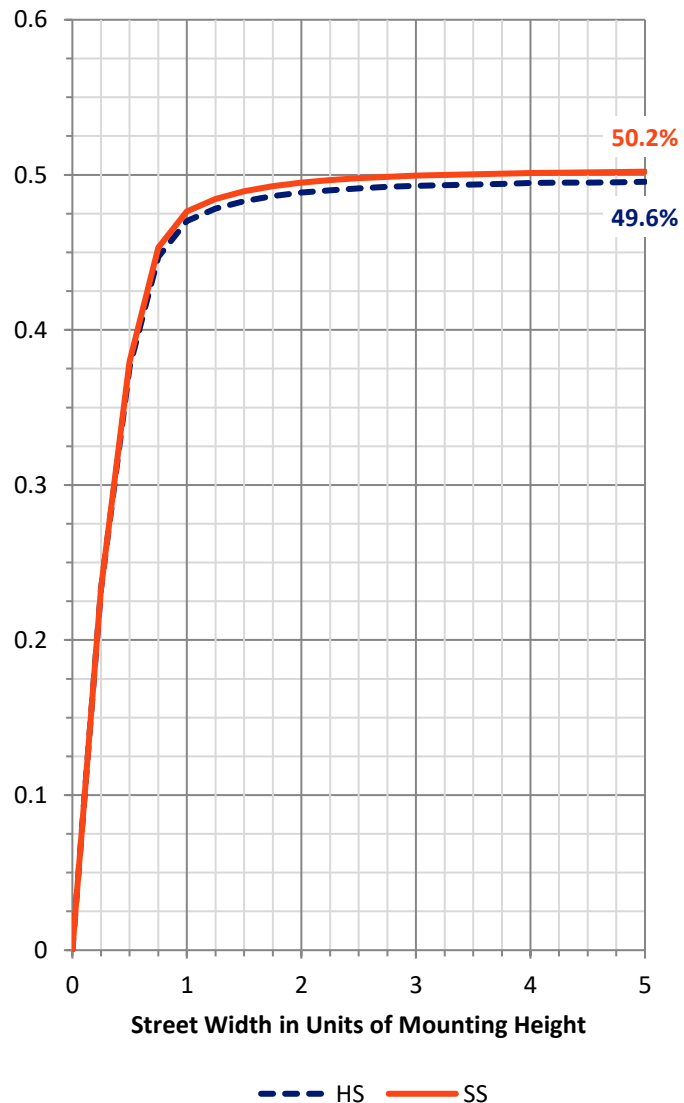
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16569.7  | 0.0    | 16569.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16569.7  | 0.0    | 16569.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 33139.3  | 0.0    | 33139.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3497.0  | 10.6      |
| 10°-20°   | 8072.5  | 24.4      |
| 20°-30°   | 8862.9  | 26.7      |
| 30°-40°   | 7684.8  | 23.2      |
| 40°-50°   | 2528.6  | 7.6       |
| 50°-60°   | 1133.7  | 3.4       |
| 60°-70°   | 801.4   | 2.4       |
| 70°-80°   | 435.1   | 1.3       |
| 80°-90°   | 123.4   | 0.4       |
| 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°    | 33139.3 | 100.0     |
| 0°-180°   | 33139.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P524280

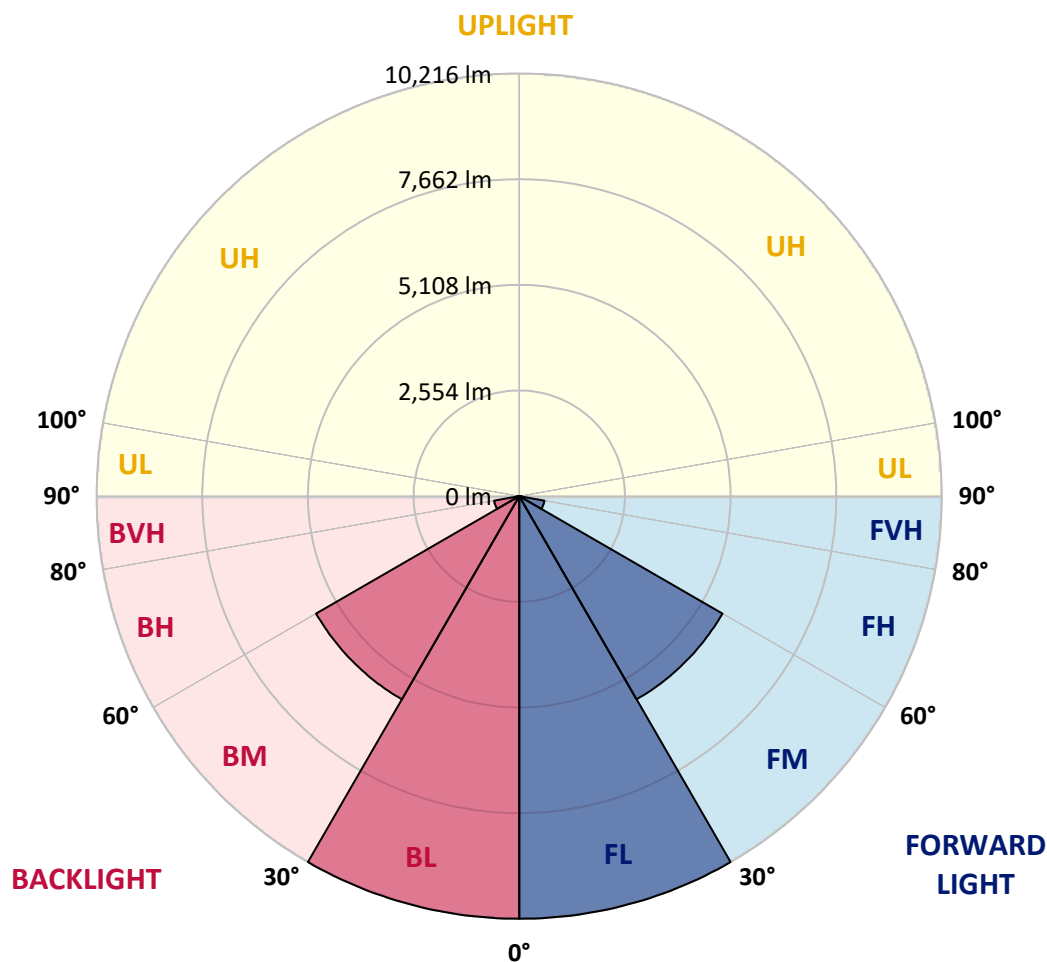
CATALOG NUMBER: IFLD-S-SA6E-927-U-55

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 10216.2 | 30.8      |                         |      |        |
| FM   | (30°-60°)   | 5673.6  | 17.1      |                         |      |        |
| FH   | (60°-80°)   | 618.2   | 1.9       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 61.7    | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 10216.2 | 30.8      | B5                      |      |        |
| BM   | (30°-60°)   | 5673.6  | 17.1      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 618.2   | 1.9       | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 61.7    | 0.2       |                         |      | 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°    | 37934.2 | 37934.2 | 37934.2 | 37934.2 | 37934.2 | 37934.2 | 37934.2 | 37934.2 | 37934.2 | 37934.2 |
| 2.5°  | 37698.2 | 37693.2 | 37753.4 | 37783.5 | 37798.6 | 37868.9 | 37939.2 | 38125.0 | 38130.0 | 38240.5 |
| 5°    | 37648.0 | 37602.8 | 37642.9 | 37582.7 | 37597.8 | 37597.8 | 37688.1 | 37823.7 | 37873.9 | 37984.4 |
| 7.5°  | 36528.3 | 36518.2 | 36493.1 | 36427.8 | 36508.2 | 36453.0 | 36618.6 | 36739.2 | 36854.6 | 36909.9 |
| 10°   | 34439.5 | 34344.1 | 34344.1 | 34253.7 | 34334.1 | 34258.7 | 34529.9 | 34640.3 | 34836.2 | 34951.7 |
| 12.5° | 31738.2 | 31698.0 | 31703.0 | 31662.9 | 31657.8 | 31552.4 | 31868.7 | 31964.1 | 32139.9 | 32310.6 |
| 15°   | 28856.1 | 28795.8 | 28851.1 | 28851.1 | 28805.9 | 28710.5 | 29046.9 | 29177.4 | 29433.5 | 29513.8 |
| 17.5° | 26009.1 | 25984.0 | 26019.2 | 26034.2 | 25999.1 | 25908.7 | 26235.1 | 26521.3 | 26697.0 | 26697.0 |
| 20°   | 23398.2 | 23388.1 | 23433.3 | 23388.1 | 23353.0 | 23292.7 | 23594.0 | 23870.2 | 24025.8 | 24035.9 |
| 22.5° | 21103.5 | 21158.8 | 21118.6 | 21063.4 | 20988.1 | 20942.9 | 21219.0 | 21475.1 | 21580.5 | 21686.0 |
| 25°   | 19090.1 | 19105.2 | 19135.3 | 19049.9 | 18959.6 | 18904.3 | 19110.2 | 19326.1 | 19491.8 | 19552.0 |
| 27.5° | 17433.1 | 17488.4 | 17413.1 | 17282.5 | 17232.3 | 17167.0 | 17312.6 | 17468.3 | 17588.8 | 17674.2 |
| 30°   | 15821.4 | 15851.5 | 15866.6 | 15731.0 | 15610.5 | 15515.1 | 15635.6 | 15771.2 | 15816.4 | 15891.7 |
| 32.5° | 14274.9 | 14325.1 | 14375.3 | 14209.6 | 14124.3 | 14033.9 | 14094.1 | 14179.5 | 14204.6 | 14209.6 |
| 35°   | 12733.4 | 12698.3 | 12653.1 | 12592.8 | 12527.6 | 12417.1 | 12477.4 | 12507.5 | 12527.6 | 12527.6 |
| 37.5° | 10870.6 | 10900.7 | 10910.8 | 10795.3 | 10765.2 | 10689.9 | 10730.0 | 10735.0 | 10775.2 | 10800.3 |
| 40°   | 8224.5  | 8330.0  | 8259.7  | 8189.4  | 8199.4  | 8109.0  | 8094.0  | 8073.9  | 8164.3  | 8199.4  |
| 42.5° | 4473.8  | 4654.5  | 4468.8  | 4529.0  | 4483.8  | 4433.6  | 4418.5  | 4443.6  | 4328.2  | 4232.8  |
| 45°   | 2249.4  | 2239.4  | 2279.6  | 2279.6  | 2319.7  | 2334.8  | 2299.6  | 2269.5  | 2254.5  | 2214.3  |
| 47.5° | 1812.6  | 1782.5  | 1777.5  | 1802.6  | 1832.7  | 1852.8  | 1822.6  | 1807.6  | 1802.6  | 1827.7  |
| 50°   | 1556.5  | 1511.3  | 1496.3  | 1531.4  | 1556.5  | 1576.6  | 1551.5  | 1551.5  | 1546.5  | 1586.7  |
| 52.5° | 1355.7  | 1310.5  | 1310.5  | 1380.8  | 1400.9  | 1421.0  | 1405.9  | 1405.9  | 1405.9  | 1451.1  |
| 55°   | 1200.0  | 1164.9  | 1124.7  | 1215.1  | 1280.4  | 1300.5  | 1290.4  | 1285.4  | 1290.4  | 1340.6  |
| 57.5° | 1079.5  | 1059.4  | 1034.3  | 1054.4  | 1154.8  | 1180.0  | 1174.9  | 1174.9  | 1185.0  | 1225.1  |
| 60°   | 964.0   | 954.0   | 944.0   | 944.0   | 1024.3  | 1069.5  | 1064.5  | 1064.5  | 1074.5  | 1099.6  |
| 62.5° | 858.6   | 848.6   | 838.5   | 848.6   | 878.7   | 949.0   | 949.0   | 954.0   | 969.1   | 979.1   |
| 65°   | 753.2   | 748.1   | 748.1   | 753.2   | 763.2   | 818.4   | 838.5   | 853.6   | 868.6   | 873.7   |
| 67.5° | 652.7   | 647.7   | 652.7   | 662.8   | 662.8   | 687.9   | 733.1   | 748.1   | 763.2   | 763.2   |
| 70°   | 527.2   | 552.3   | 567.4   | 572.4   | 582.4   | 587.5   | 627.6   | 657.8   | 672.8   | 652.7   |
| 72.5° | 286.2   | 326.4   | 492.1   | 507.1   | 512.1   | 517.2   | 547.3   | 582.4   | 592.5   | 386.6   |
| 75°   | 205.9   | 205.9   | 411.7   | 436.8   | 441.9   | 441.9   | 467.0   | 502.1   | 512.1   | 296.2   |
| 77.5° | 135.6   | 130.5   | 286.2   | 316.3   | 361.5   | 291.2   | 381.6   | 421.8   | 431.8   | 246.0   |
| 80°   | 105.4   | 100.4   | 220.9   | 246.0   | 251.1   | 200.8   | 311.3   | 341.4   | 346.5   | 200.8   |
| 82.5° | 80.3    | 75.3    | 160.7   | 180.8   | 195.8   | 130.5   | 220.9   | 261.1   | 271.1   | 175.7   |
| 85°   | 45.2    | 45.2    | 80.3    | 75.3    | 115.5   | 85.4    | 125.5   | 130.5   | 175.7   | 110.5   |
| 87.5° | 15.1    | 20.1    | 35.1    | 35.1    | 40.2    | 35.1    | 50.2    | 50.2    | 55.2    | 40.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°

37934.2  
38275.6  
38004.5  
37000.2  
35077.2  
32426.1  
29624.3  
26762.3  
24091.1  
21746.2  
19592.2  
17699.3  
15906.7  
14269.9  
12587.8  
10905.8  
8244.6  
4277.9  
2249.4  
1847.8  
1636.9  
1501.3  
1370.8  
1255.3  
1119.7  
994.2  
883.7  
763.2  
577.4  
331.4  
291.2  
241.0  
180.8  
180.8  
105.4  
30.1  
0.0