

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: P524438

Luminaire Tested: **IFLD-M-SA4B-950-U-55**

Issue Date: 05/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P524438  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-950-U-55  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55 distribution lens  
Light Source: (64) 5000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16327.3 lumens  
Efficiency: N/A  
Efficacy: 98.3 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): 166.1  
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

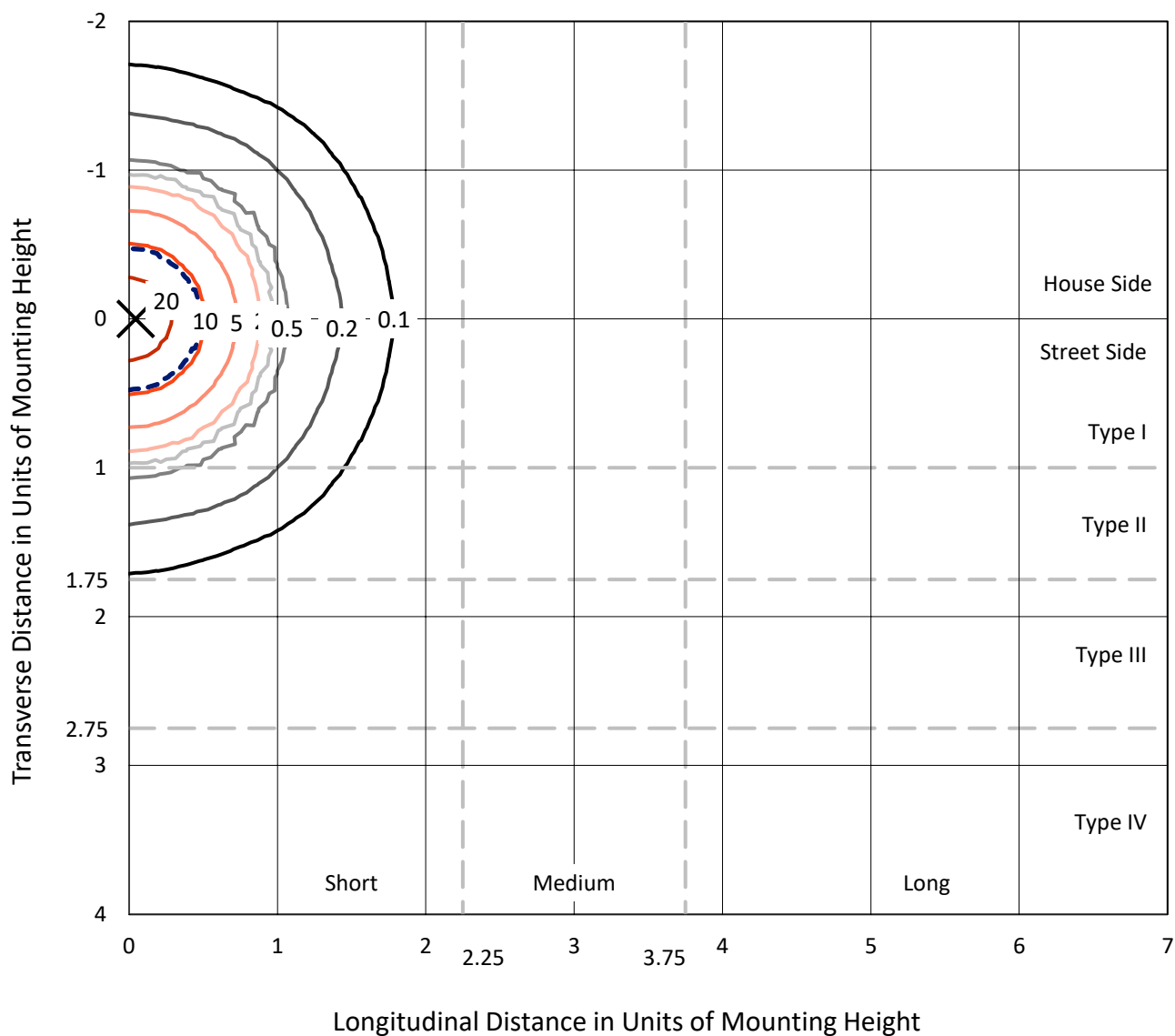
REPORT NUMBER: P524438

CATALOG NUMBER: IFLD-M-SA4B-950-U-55

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

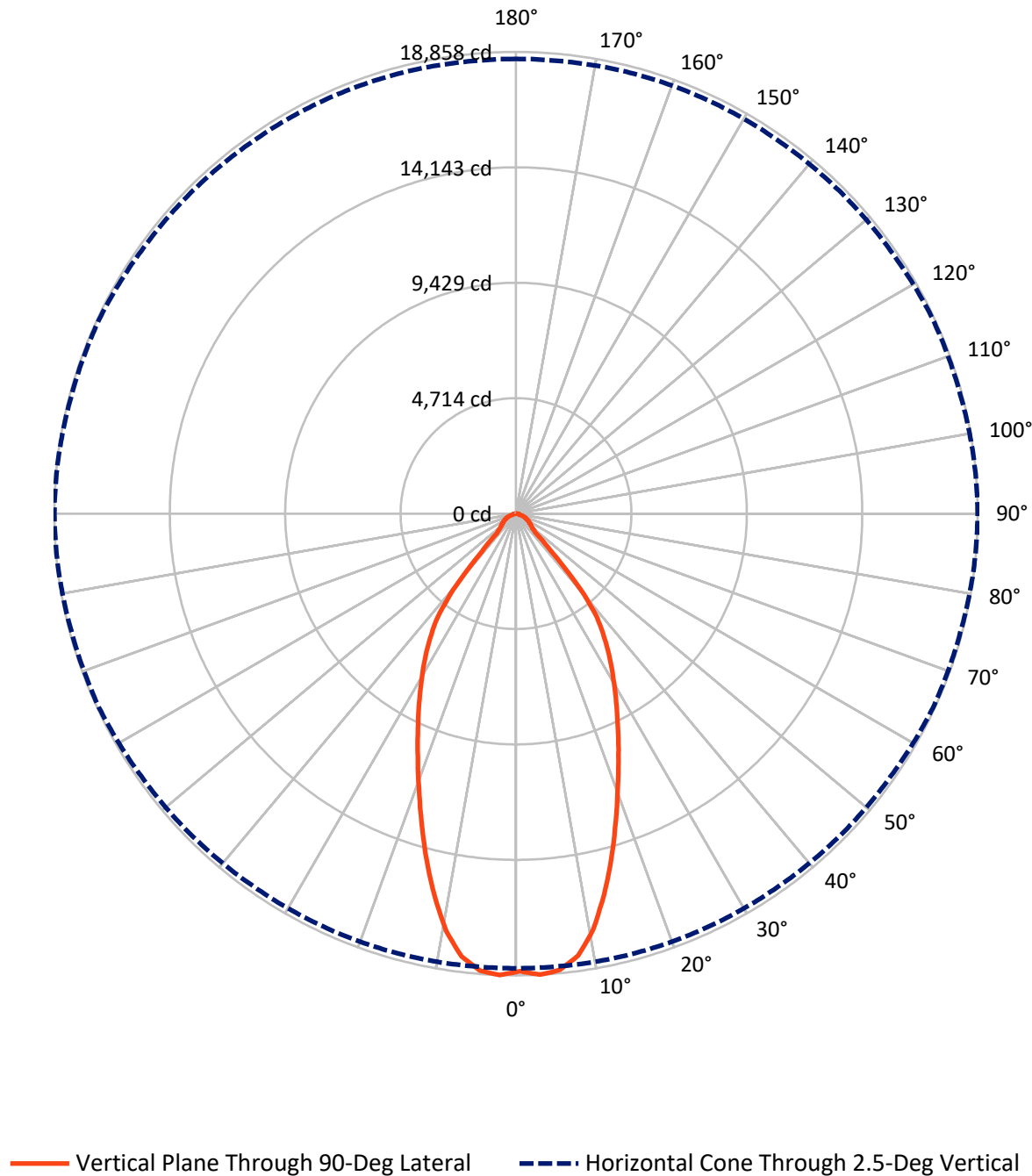


Based on 25 foot mounting height. Maximum calculated value = 29.9 fc

Type V - Short - N/A

REPORT NUMBER: P524438  
CATALOG NUMBER: IFLD-M-SA4B-950-U-55

## Luminous Intensity Polar Plot



REPORT NUMBER: P524438

CATALOG NUMBER: IFLD-M-SA4B-950-U-55

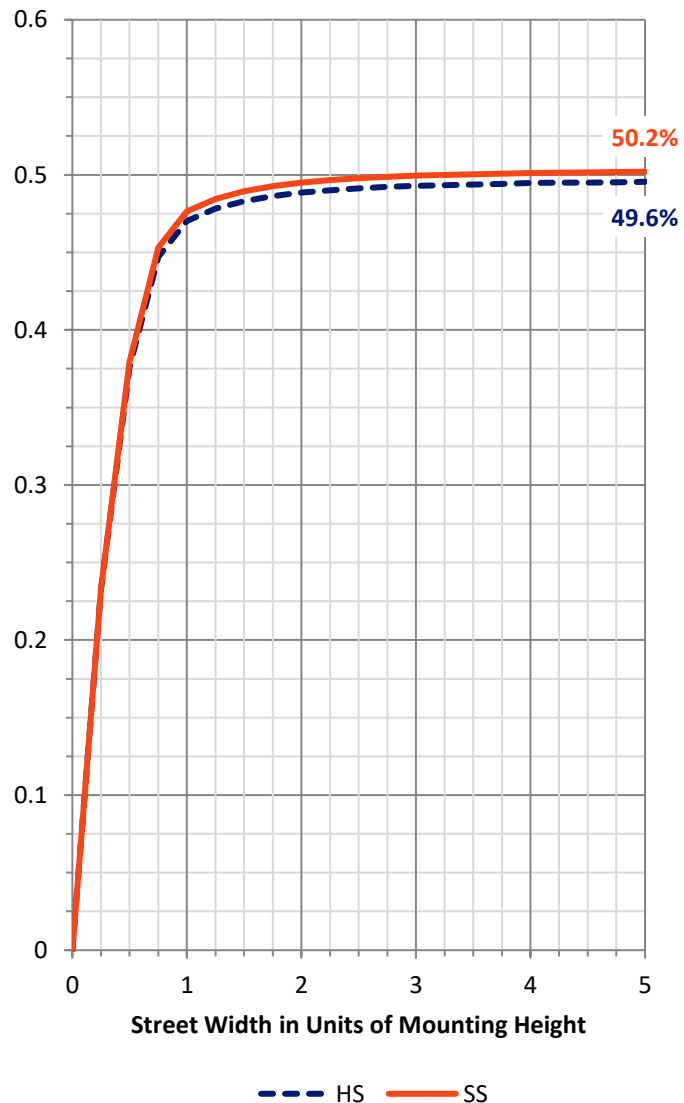
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8163.6   | 0.0    | 8163.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8163.6   | 0.0    | 8163.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16327.3  | 0.0    | 16327.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1722.9  | 10.6      |
| 10°-20°   | 3977.2  | 24.4      |
| 20°-30°   | 4366.6  | 26.7      |
| 30°-40°   | 3786.2  | 23.2      |
| 40°-50°   | 1245.8  | 7.6       |
| 50°-60°   | 558.6   | 3.4       |
| 60°-70°   | 394.8   | 2.4       |
| 70°-80°   | 214.4   | 1.3       |
| 80°-90°   | 60.8    | 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°    | 16327.3 | 100.0     |
| 0°-180°   | 16327.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P524438

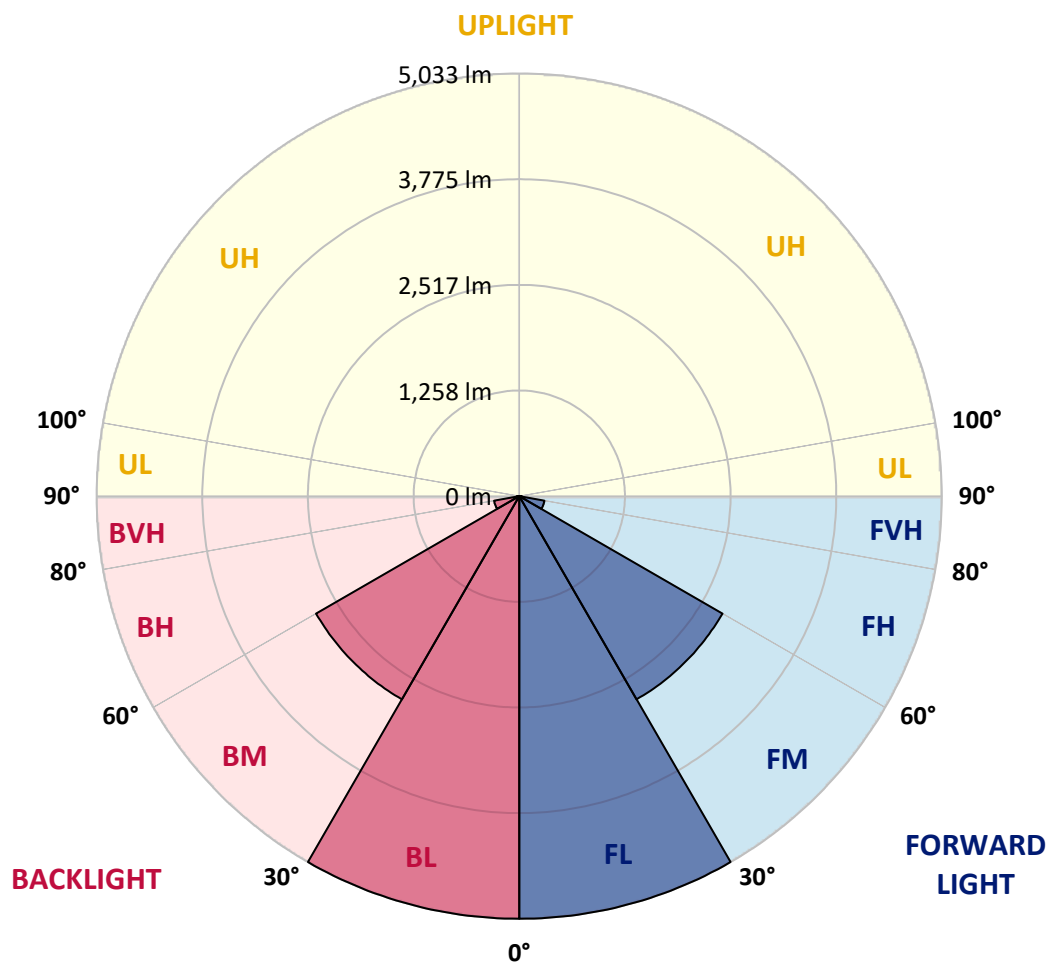
CATALOG NUMBER: IFLD-M-SA4B-950-U-55

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 5033.4 | 30.8      |                         |      |        |
| FM   | (30°-60°)   | 2795.3 | 17.1      |                         |      |        |
| FH   | (60°-80°)   | 304.6  | 1.9       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 30.4   | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 5033.4 | 30.8      | B5                      |      |        |
| BM   | (30°-60°)   | 2795.3 | 17.1      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 304.6  | 1.9       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 30.4   | 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



REPORT NUMBER: P524438

CATALOG NUMBER: IFLD-M-SA4B-950-U-55

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 18689.6 | 18689.6 | 18689.6 | 18689.6 | 18689.6 | 18689.6 | 18689.6 | 18689.6 | 18689.6 | 18689.6 |
| 2.5°  | 18573.3 | 18570.9 | 18600.6 | 18615.4 | 18622.8 | 18657.5 | 18692.1 | 18783.6 | 18786.1 | 18840.5 |
| 5°    | 18548.6 | 18526.3 | 18546.1 | 18516.4 | 18523.9 | 18523.9 | 18568.4 | 18635.2 | 18659.9 | 18714.3 |
| 7.5°  | 17996.9 | 17992.0 | 17979.6 | 17947.5 | 17987.0 | 17959.8 | 18041.5 | 18100.8 | 18157.7 | 18185.0 |
| 10°   | 16967.8 | 16920.8 | 16920.8 | 16876.3 | 16915.9 | 16878.8 | 17012.4 | 17066.8 | 17163.3 | 17220.2 |
| 12.5° | 15636.9 | 15617.1 | 15619.6 | 15599.8 | 15597.4 | 15545.4 | 15701.3 | 15748.3 | 15834.8 | 15918.9 |
| 15°   | 14217.0 | 14187.3 | 14214.5 | 14214.5 | 14192.2 | 14145.2 | 14311.0 | 14375.3 | 14501.5 | 14541.0 |
| 17.5° | 12814.3 | 12801.9 | 12819.3 | 12826.7 | 12809.4 | 12764.8 | 12925.6 | 13066.6 | 13153.2 | 13153.2 |
| 20°   | 11527.9 | 11523.0 | 11545.3 | 11523.0 | 11505.7 | 11476.0 | 11624.4 | 11760.5 | 11837.2 | 11842.1 |
| 22.5° | 10397.4 | 10424.6 | 10404.8 | 10377.6 | 10340.5 | 10318.2 | 10454.3 | 10580.5 | 10632.4 | 10684.4 |
| 25°   | 9405.4  | 9412.8  | 9427.7  | 9385.6  | 9341.1  | 9313.9  | 9415.3  | 9521.7  | 9603.3  | 9633.0  |
| 27.5° | 8589.1  | 8616.3  | 8579.2  | 8514.8  | 8490.1  | 8457.9  | 8529.7  | 8606.4  | 8665.7  | 8707.8  |
| 30°   | 7795.0  | 7809.8  | 7817.2  | 7750.4  | 7691.1  | 7644.1  | 7703.4  | 7770.2  | 7792.5  | 7829.6  |
| 32.5° | 7033.0  | 7057.8  | 7082.5  | 7000.9  | 6958.8  | 6914.3  | 6944.0  | 6986.0  | 6998.4  | 7000.9  |
| 35°   | 6273.6  | 6256.3  | 6234.0  | 6204.3  | 6172.1  | 6117.7  | 6147.4  | 6162.3  | 6172.1  | 6172.1  |
| 37.5° | 5355.8  | 5370.6  | 5375.6  | 5318.7  | 5303.8  | 5266.7  | 5286.5  | 5289.0  | 5308.8  | 5321.2  |
| 40°   | 4052.1  | 4104.0  | 4069.4  | 4034.8  | 4039.7  | 3995.2  | 3987.8  | 3977.9  | 4022.4  | 4039.7  |
| 42.5° | 2204.2  | 2293.2  | 2201.7  | 2231.4  | 2209.1  | 2184.4  | 2176.9  | 2189.3  | 2132.4  | 2085.4  |
| 45°   | 1108.3  | 1103.3  | 1123.1  | 1123.1  | 1142.9  | 1150.3  | 1133.0  | 1118.2  | 1110.7  | 1090.9  |
| 47.5° | 893.0   | 878.2   | 875.7   | 888.1   | 902.9   | 912.8   | 898.0   | 890.6   | 888.1   | 900.5   |
| 50°   | 766.9   | 744.6   | 737.2   | 754.5   | 766.9   | 776.8   | 764.4   | 764.4   | 761.9   | 781.7   |
| 52.5° | 667.9   | 645.7   | 645.7   | 680.3   | 690.2   | 700.1   | 692.7   | 692.7   | 692.7   | 714.9   |
| 55°   | 591.2   | 573.9   | 554.1   | 598.7   | 630.8   | 640.7   | 635.8   | 633.3   | 635.8   | 660.5   |
| 57.5° | 531.9   | 522.0   | 509.6   | 519.5   | 569.0   | 581.3   | 578.9   | 578.9   | 583.8   | 603.6   |
| 60°   | 475.0   | 470.0   | 465.1   | 465.1   | 504.7   | 526.9   | 524.4   | 524.4   | 529.4   | 541.8   |
| 62.5° | 423.0   | 418.1   | 413.1   | 418.1   | 432.9   | 467.5   | 467.5   | 470.0   | 477.4   | 482.4   |
| 65°   | 371.1   | 368.6   | 368.6   | 371.1   | 376.0   | 403.2   | 413.1   | 420.5   | 428.0   | 430.4   |
| 67.5° | 321.6   | 319.1   | 321.6   | 326.5   | 326.5   | 338.9   | 361.2   | 368.6   | 376.0   | 376.0   |
| 70°   | 259.7   | 272.1   | 279.5   | 282.0   | 287.0   | 289.4   | 309.2   | 324.1   | 331.5   | 321.6   |
| 72.5° | 141.0   | 160.8   | 242.4   | 249.9   | 252.3   | 254.8   | 269.6   | 287.0   | 291.9   | 190.5   |
| 75°   | 101.4   | 101.4   | 202.9   | 215.2   | 217.7   | 217.7   | 230.1   | 247.4   | 252.3   | 146.0   |
| 77.5° | 66.8    | 64.3    | 141.0   | 155.8   | 178.1   | 143.5   | 188.0   | 207.8   | 212.7   | 121.2   |
| 80°   | 51.9    | 49.5    | 108.8   | 121.2   | 123.7   | 99.0    | 153.4   | 168.2   | 170.7   | 99.0    |
| 82.5° | 39.6    | 37.1    | 79.2    | 89.1    | 96.5    | 64.3    | 108.8   | 128.6   | 133.6   | 86.6    |
| 85°   | 22.3    | 22.3    | 39.6    | 37.1    | 56.9    | 42.1    | 61.8    | 64.3    | 86.6    | 54.4    |
| 87.5° | 7.4     | 9.9     | 17.3    | 17.3    | 19.8    | 17.3    | 24.7    | 24.7    | 27.2    | 19.8    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°

18689.6  
18857.8  
18724.2  
18229.5  
17282.0  
15975.8  
14595.5  
13185.4  
11869.3  
10714.1  
9652.8  
8720.2  
7837.0  
7030.6  
6201.8  
5373.1  
4062.0  
2107.7  
1108.3  
910.4  
806.5  
739.7  
675.3  
618.5  
551.7  
489.8  
435.4  
376.0  
284.5  
163.3  
143.5  
118.7  
89.1  
89.1  
51.9  
14.8  
0.0