

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: P524420

Luminaire Tested: **IFLD-S-SA3D-950-U-55**

Issue Date: 05/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P524420  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-950-U-55  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55  
distribution lens  
Light Source: (48) 5000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16661.5 lumens  
Efficiency: N/A  
Efficacy: 90.5 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): 184.1  
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

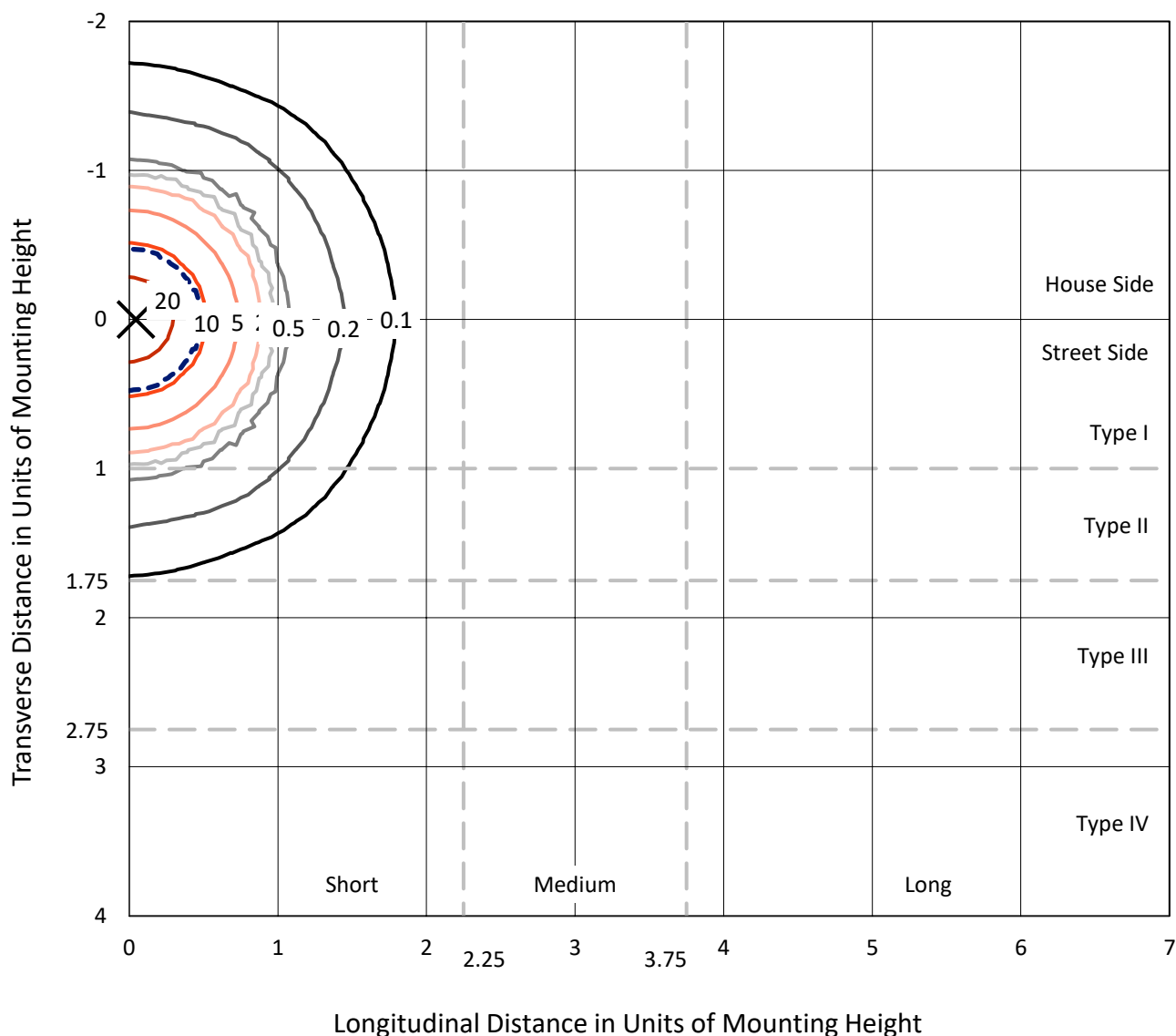
REPORT NUMBER: P524420

CATALOG NUMBER: IFLD-S-SA3D-950-U-55

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

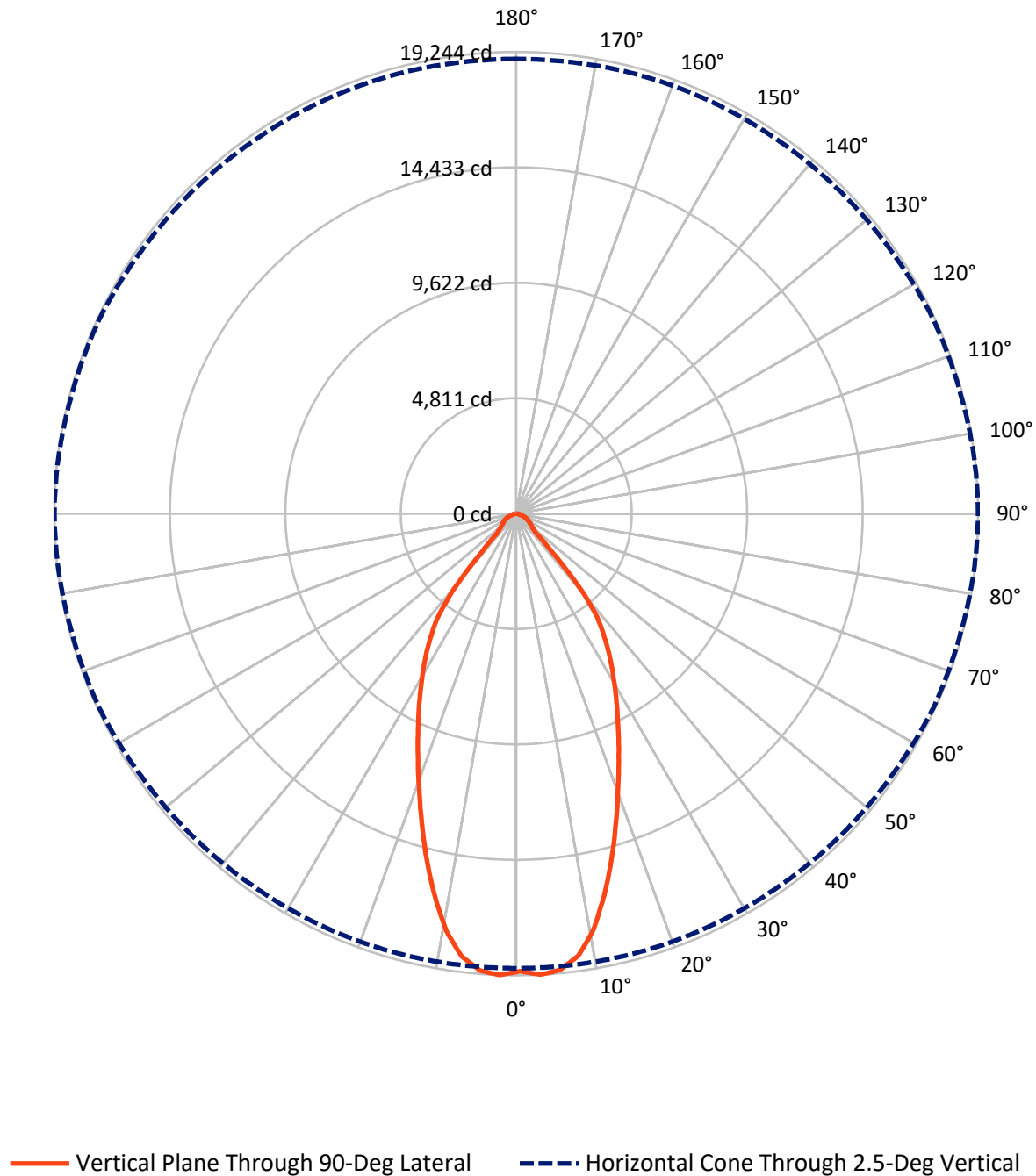


Based on 25 foot mounting height. Maximum calculated value = 30.5 fc

Type V - Short - N/A

REPORT NUMBER: P524420  
CATALOG NUMBER: IFLD-S-SA3D-950-U-55

## Luminous Intensity Polar Plot



REPORT NUMBER: P524420

CATALOG NUMBER: IFLD-S-SA3D-950-U-55

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8330.8   | 0.0    | 8330.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8330.8   | 0.0    | 8330.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16661.5  | 0.0    | 16661.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1758.2  | 10.6      |
| 10°-20°   | 4058.6  | 24.4      |
| 20°-30°   | 4456.0  | 26.7      |
| 30°-40°   | 3863.7  | 23.2      |
| 40°-50°   | 1271.3  | 7.6       |
| 50°-60°   | 570.0   | 3.4       |
| 60°-70°   | 402.9   | 2.4       |
| 70°-80°   | 218.8   | 1.3       |
| 80°-90°   | 62.0    | 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°    | 16661.5 | 100.0     |
| 0°-180°   | 16661.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P524420

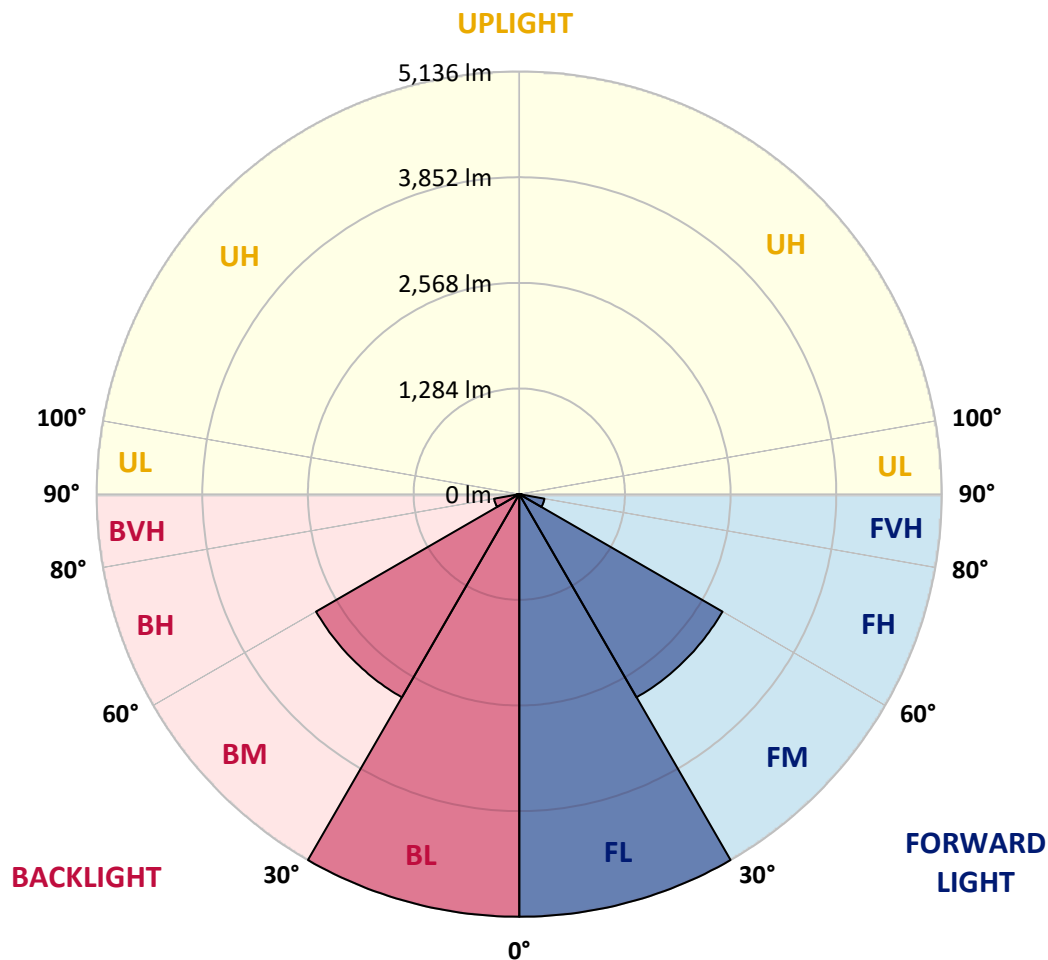
CATALOG NUMBER: IFLD-S-SA3D-950-U-55

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 5136.4 | 30.8      |                         |      |        |
| FM   | (30°-60°)   | 2852.5 | 17.1      |                         |      |        |
| FH   | (60°-80°)   | 310.8  | 1.9       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 31.0   | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 5136.4 | 30.8      | B5                      |      |        |
| BM   | (30°-60°)   | 2852.5 | 17.1      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 310.8  | 1.9       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 31.0   | 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: P524420

CATALOG NUMBER: IFLD-S-SA3D-950-U-55

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 19072.2 | 19072.2 | 19072.2 | 19072.2 | 19072.2 | 19072.2 | 19072.2 | 19072.2 | 19072.2 | 19072.2 |
| 2.5°  | 18953.6 | 18951.0 | 18981.3 | 18996.5 | 19004.1 | 19039.4 | 19074.7 | 19168.1 | 19170.7 | 19226.2 |
| 5°    | 18928.3 | 18905.6 | 18925.8 | 18895.5 | 18903.1 | 18903.1 | 18948.5 | 19016.7 | 19041.9 | 19097.5 |
| 7.5°  | 18365.4 | 18360.3 | 18347.7 | 18314.9 | 18355.3 | 18327.5 | 18410.8 | 18471.4 | 18529.5 | 18557.2 |
| 10°   | 17315.2 | 17267.2 | 17267.2 | 17221.8 | 17262.2 | 17224.3 | 17360.6 | 17416.2 | 17514.6 | 17572.7 |
| 12.5° | 15957.0 | 15936.9 | 15939.4 | 15919.2 | 15916.7 | 15863.6 | 16022.7 | 16070.6 | 16159.0 | 16244.8 |
| 15°   | 14508.0 | 14477.7 | 14505.5 | 14505.5 | 14482.8 | 14434.8 | 14603.9 | 14669.6 | 14798.3 | 14838.7 |
| 17.5° | 13076.7 | 13064.0 | 13081.7 | 13089.3 | 13071.6 | 13026.2 | 13190.3 | 13334.1 | 13422.5 | 13422.5 |
| 20°   | 11763.9 | 11758.9 | 11781.6 | 11758.9 | 11741.2 | 11710.9 | 11862.4 | 12001.2 | 12079.5 | 12084.5 |
| 22.5° | 10610.3 | 10638.0 | 10617.8 | 10590.1 | 10552.2 | 10529.5 | 10668.3 | 10797.1 | 10850.1 | 10903.1 |
| 25°   | 9598.0  | 9605.5  | 9620.7  | 9577.8  | 9532.3  | 9504.6  | 9608.1  | 9716.6  | 9799.9  | 9830.2  |
| 27.5° | 8764.9  | 8792.7  | 8754.8  | 8689.2  | 8663.9  | 8631.1  | 8704.3  | 8782.6  | 8843.1  | 8886.1  |
| 30°   | 7954.5  | 7969.7  | 7977.3  | 7909.1  | 7848.5  | 7800.6  | 7861.1  | 7929.3  | 7952.0  | 7989.9  |
| 32.5° | 7177.0  | 7202.3  | 7227.5  | 7144.2  | 7101.3  | 7055.8  | 7086.1  | 7129.0  | 7141.7  | 7144.2  |
| 35°   | 6402.0  | 6384.3  | 6361.6  | 6331.3  | 6298.5  | 6243.0  | 6273.3  | 6288.4  | 6298.5  | 6298.5  |
| 37.5° | 5465.4  | 5480.6  | 5485.6  | 5427.6  | 5412.4  | 5374.6  | 5394.7  | 5397.3  | 5417.5  | 5430.1  |
| 40°   | 4135.0  | 4188.1  | 4152.7  | 4117.4  | 4122.4  | 4077.0  | 4069.4  | 4059.3  | 4104.8  | 4122.4  |
| 42.5° | 2249.3  | 2340.2  | 2246.8  | 2277.1  | 2254.3  | 2229.1  | 2221.5  | 2234.1  | 2176.1  | 2128.1  |
| 45°   | 1131.0  | 1125.9  | 1146.1  | 1146.1  | 1166.3  | 1173.9  | 1156.2  | 1141.1  | 1133.5  | 1113.3  |
| 47.5° | 911.3   | 896.2   | 893.7   | 906.3   | 921.4   | 931.5   | 916.4   | 908.8   | 906.3   | 918.9   |
| 50°   | 782.6   | 759.9   | 752.3   | 770.0   | 782.6   | 792.7   | 780.1   | 780.1   | 777.5   | 797.7   |
| 52.5° | 681.6   | 658.9   | 658.9   | 694.2   | 704.3   | 714.4   | 706.8   | 706.8   | 706.8   | 729.6   |
| 55°   | 603.3   | 585.7   | 565.5   | 610.9   | 643.7   | 653.8   | 648.8   | 646.3   | 648.8   | 674.0   |
| 57.5° | 542.8   | 532.7   | 520.0   | 530.1   | 580.6   | 593.2   | 590.7   | 590.7   | 595.8   | 616.0   |
| 60°   | 484.7   | 479.6   | 474.6   | 474.6   | 515.0   | 537.7   | 535.2   | 535.2   | 540.2   | 552.9   |
| 62.5° | 431.7   | 426.6   | 421.6   | 426.6   | 441.8   | 477.1   | 477.1   | 479.6   | 487.2   | 492.3   |
| 65°   | 378.7   | 376.1   | 376.1   | 378.7   | 383.7   | 411.5   | 421.6   | 429.2   | 436.7   | 439.3   |
| 67.5° | 328.2   | 325.7   | 328.2   | 333.2   | 333.2   | 345.8   | 368.6   | 376.1   | 383.7   | 383.7   |
| 70°   | 265.1   | 277.7   | 285.3   | 287.8   | 292.8   | 295.4   | 315.6   | 330.7   | 338.3   | 328.2   |
| 72.5° | 143.9   | 164.1   | 247.4   | 255.0   | 257.5   | 260.0   | 275.2   | 292.8   | 297.9   | 194.4   |
| 75°   | 103.5   | 103.5   | 207.0   | 219.6   | 222.2   | 222.2   | 234.8   | 252.4   | 257.5   | 148.9   |
| 77.5° | 68.2    | 65.6    | 143.9   | 159.0   | 181.8   | 146.4   | 191.9   | 212.1   | 217.1   | 123.7   |
| 80°   | 53.0    | 50.5    | 111.1   | 123.7   | 126.2   | 101.0   | 156.5   | 171.7   | 174.2   | 101.0   |
| 82.5° | 40.4    | 37.9    | 80.8    | 90.9    | 98.5    | 65.6    | 111.1   | 131.3   | 136.3   | 88.4    |
| 85°   | 22.7    | 22.7    | 40.4    | 37.9    | 58.1    | 42.9    | 63.1    | 65.6    | 88.4    | 55.5    |
| 87.5° | 7.6     | 10.1    | 17.7    | 17.7    | 20.2    | 17.7    | 25.2    | 25.2    | 27.8    | 20.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°

19072.2  
19243.9  
19107.6  
18602.7  
17635.8  
16302.9  
14894.3  
13455.3  
12112.3  
10933.4  
9850.4  
8898.7  
7997.5  
7174.5  
6328.8  
5483.1  
4145.1  
2150.8  
1131.0  
929.0  
823.0  
754.8  
689.2  
631.1  
563.0  
499.8  
444.3  
383.7  
290.3  
166.6  
146.4  
121.2  
90.9  
90.9  
53.0  
15.1  
0.0