

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: P636278

Luminaire Tested: **IFLD-S-SA3A-927-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636278  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-927-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8143.5 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

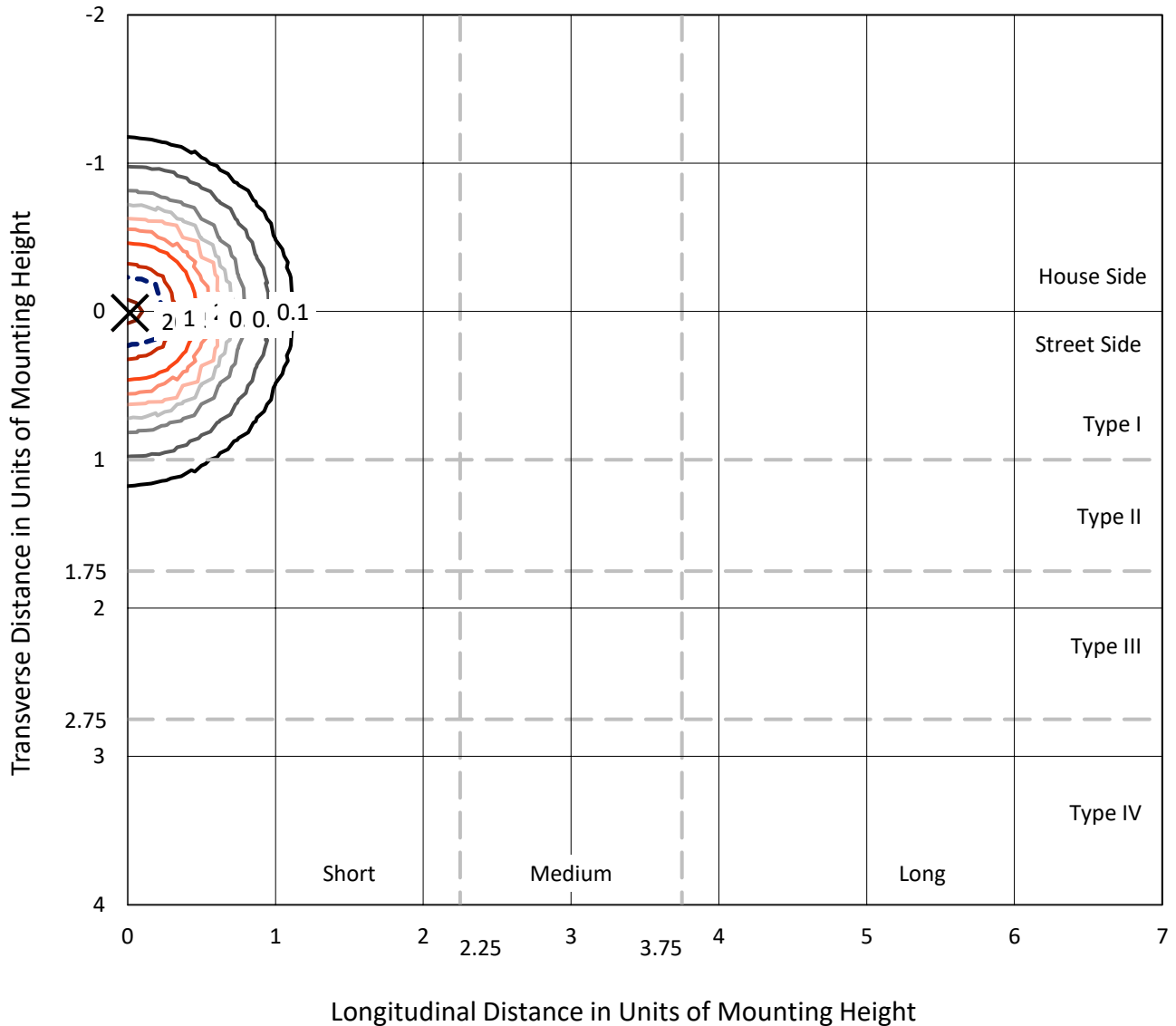
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

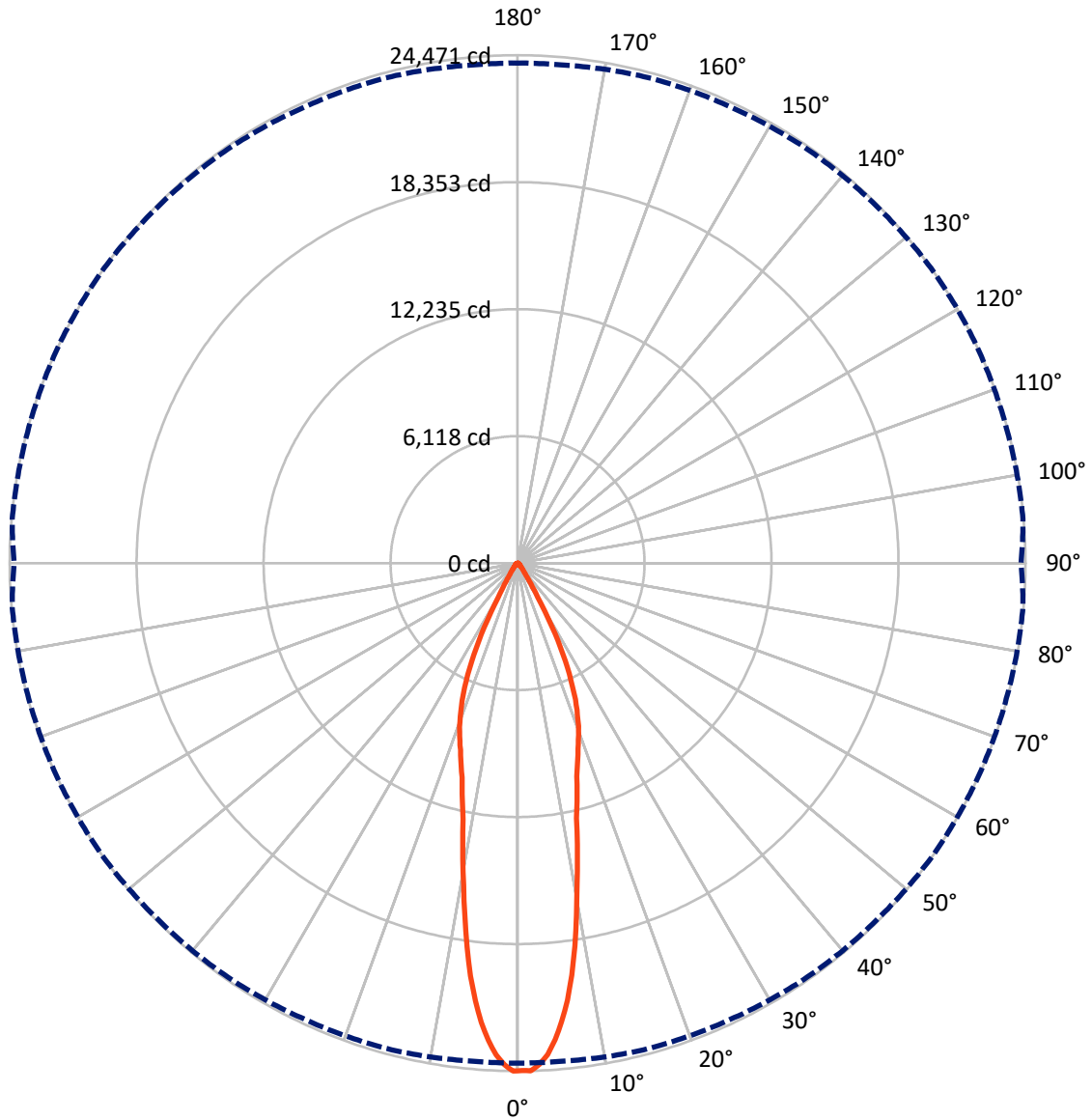
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 61.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 1-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4071.7   | 0.0    | 4071.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4071.7   | 0.0    | 4071.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8143.5   | 0.0    | 8143.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1859.7 | 22.8      |
| 10°-20°   | 3037.4 | 37.3      |
| 20°-30°   | 2373.6 | 29.1      |
| 30°-40°   | 517.4  | 6.4       |
| 40°-50°   | 153.2  | 1.9       |
| 50°-60°   | 95.8   | 1.2       |
| 60°-70°   | 67.0   | 0.8       |
| 70°-80°   | 28.8   | 0.4       |
| 80°-90°   | 10.6   | 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°    | 8143.5 | 100.0     |
| 0°-180°   | 8143.5 | 100.0     |

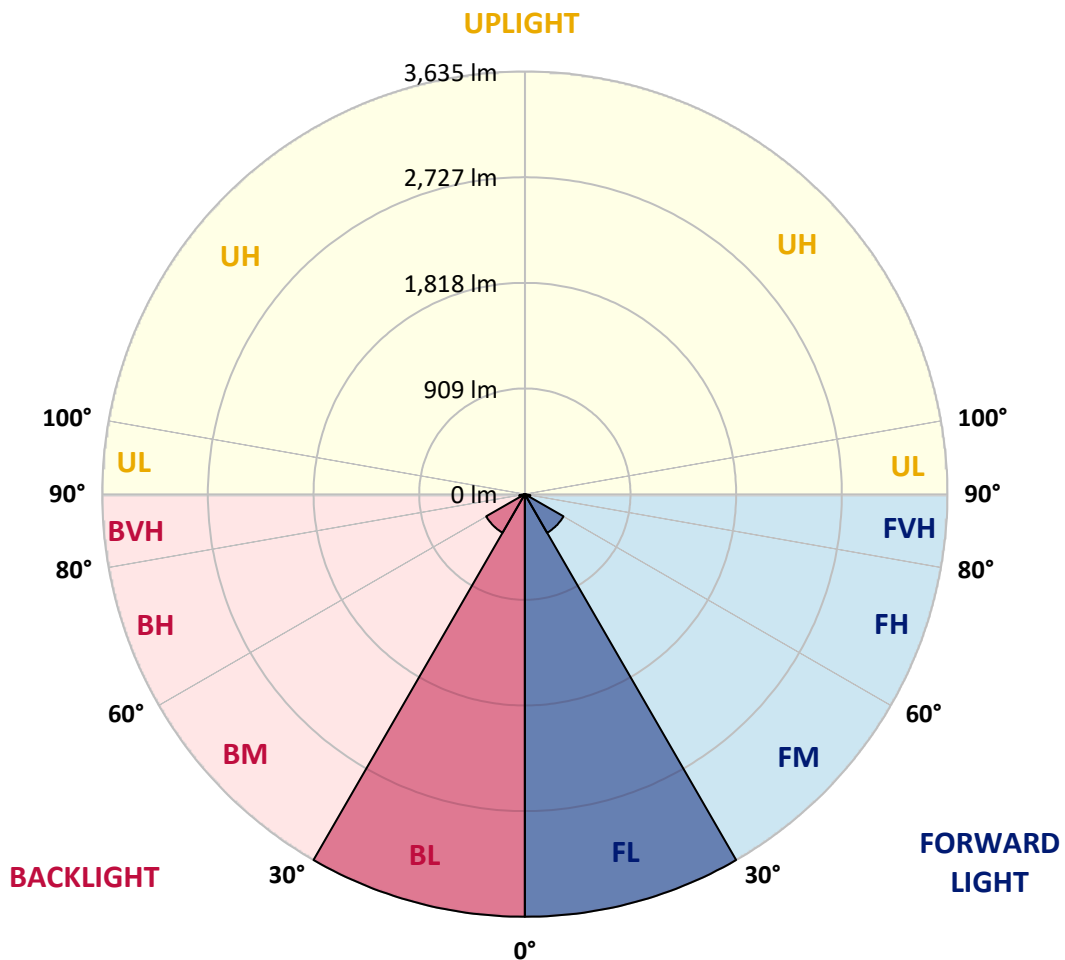


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 3635.4 | 44.6      |                         |      |        |
| FM (30°-60°)   | 383.2  | 4.7       |                         |      |        |
| FH (60°-80°)   | 47.9   | 0.6       |                         |      | G0/660 |
| FVH (80°-90°)  | 5.3    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 3635.4 | 44.6      | B4/5000                 |      |        |
| BM (30°-60°)   | 383.2  | 4.7       | B1/1000                 |      |        |
| BH (60°-80°)   | 47.9   | 0.6       | B0/110                  |      | G0/660 |
| BVH (80°-90°)  | 5.3    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 24442.7 | 24442.7 | 24442.7 | 24442.7 | 24442.7 | 24442.7 | 24442.7 | 24442.7 | 24442.7 | 24442.7 |
| 1°    | 24088.9 | 24091.8 | 24223.0 | 24252.5 | 24342.4 | 24388.1 | 24470.7 | 24461.8 | 24436.8 | 24439.7 |
| 2°    | 23645.1 | 23626.0 | 23748.3 | 23883.9 | 23991.6 | 24080.0 | 24178.8 | 24199.4 | 24175.8 | 24198.0 |
| 3°    | 22915.4 | 22887.4 | 23058.4 | 23227.9 | 23415.1 | 23567.0 | 23715.9 | 23721.8 | 23693.8 | 23692.3 |
| 4°    | 21955.7 | 21904.1 | 22107.5 | 22409.7 | 22645.6 | 22847.6 | 23033.3 | 23030.4 | 22992.0 | 23023.0 |
| 5°    | 20795.4 | 20730.6 | 20994.5 | 21392.5 | 21741.9 | 21985.1 | 22190.1 | 22141.4 | 22053.0 | 22057.4 |
| 6°    | 19371.3 | 19434.7 | 19757.6 | 20316.3 | 20729.1 | 20931.1 | 21183.2 | 21091.8 | 20938.4 | 20922.2 |
| 7°    | 18032.7 | 18175.7 | 18433.7 | 19107.4 | 19598.4 | 19810.7 | 20024.4 | 19840.1 | 19632.3 | 19598.4 |
| 8°    | 16623.4 | 16862.2 | 17219.0 | 17839.6 | 18363.0 | 18576.7 | 18657.8 | 18460.3 | 18237.7 | 18228.8 |
| 9°    | 15480.9 | 15644.5 | 15951.1 | 16498.1 | 17030.3 | 17173.3 | 17191.0 | 17018.5 | 16795.9 | 16810.6 |
| 10°   | 14441.5 | 14472.5 | 14737.8 | 15208.1 | 15634.2 | 15735.9 | 15731.5 | 15606.2 | 15423.4 | 15472.0 |
| 12.5° | 12115.2 | 12199.2 | 12275.9 | 12426.3 | 12569.3 | 12635.6 | 12610.5 | 12558.9 | 12458.7 | 12463.1 |
| 15°   | 10536.3 | 10534.8 | 10543.7 | 10613.0 | 10655.7 | 10663.1 | 10663.1 | 10598.2 | 10555.5 | 10618.9 |
| 17.5° | 9143.2  | 9219.8  | 9356.9  | 9412.9  | 9469.0  | 9448.3  | 9410.0  | 9380.5  | 9352.5  | 9407.0  |
| 20°   | 8059.6  | 8093.5  | 8095.0  | 8131.8  | 8414.9  | 8429.6  | 8381.0  | 8296.9  | 8226.2  | 8212.9  |
| 22.5° | 6840.4  | 6892.0  | 6914.1  | 6946.6  | 6976.0  | 7191.3  | 7133.8  | 6998.2  | 6914.1  | 6889.1  |
| 25°   | 5134.7  | 5117.0  | 5261.5  | 5526.9  | 5569.6  | 5596.2  | 5581.4  | 5510.7  | 5456.1  | 5466.4  |
| 27.5° | 3548.5  | 3579.4  | 3573.5  | 3576.5  | 3858.1  | 3856.6  | 3852.2  | 3790.2  | 3774.0  | 3750.4  |
| 30°   | 1984.3  | 1969.6  | 1976.9  | 1957.8  | 1918.0  | 1966.6  | 1888.5  | 1954.8  | 1890.0  | 1910.6  |
| 32.5° | 1173.5  | 1163.2  | 1152.8  | 1157.3  | 1127.8  | 1055.5  | 1024.6  | 1070.3  | 1055.5  | 1049.6  |
| 35°   | 748.9   | 753.3   | 766.6   | 765.1   | 738.6   | 697.3   | 653.1   | 694.4   | 688.5   | 670.8   |
| 37.5° | 477.6   | 477.6   | 482.1   | 520.4   | 498.3   | 462.9   | 431.9   | 449.6   | 448.2   | 445.2   |
| 40°   | 339.1   | 339.1   | 345.0   | 355.3   | 343.5   | 325.8   | 308.1   | 308.1   | 311.1   | 302.2   |
| 42.5° | 252.1   | 252.1   | 258.0   | 263.9   | 249.1   | 243.2   | 234.4   | 228.5   | 235.9   | 228.5   |
| 45°   | 197.5   | 196.1   | 197.5   | 194.6   | 185.8   | 185.8   | 178.4   | 169.5   | 178.4   | 174.0   |
| 47.5° | 162.2   | 160.7   | 159.2   | 153.3   | 144.5   | 145.9   | 143.0   | 135.6   | 140.1   | 138.6   |
| 50°   | 141.5   | 138.6   | 140.1   | 134.2   | 126.8   | 125.3   | 125.3   | 117.9   | 119.4   | 119.4   |
| 52.5° | 123.8   | 123.8   | 122.4   | 119.4   | 116.5   | 110.6   | 112.0   | 104.7   | 104.7   | 104.7   |
| 55°   | 116.5   | 116.5   | 113.5   | 107.6   | 109.1   | 104.7   | 100.2   | 95.8    | 94.4    | 94.4    |
| 57.5° | 115.0   | 115.0   | 113.5   | 107.6   | 103.2   | 101.7   | 95.8    | 89.9    | 85.5    | 87.0    |
| 60°   | 112.0   | 112.0   | 109.1   | 107.6   | 100.2   | 97.3    | 88.5    | 84.0    | 78.1    | 78.1    |
| 62.5° | 107.6   | 106.1   | 100.2   | 91.4    | 91.4    | 84.0    | 78.1    | 69.3    | 64.9    | 63.4    |
| 65°   | 91.4    | 89.9    | 85.5    | 78.1    | 73.7    | 69.3    | 60.4    | 51.6    | 48.6    | 44.2    |
| 67.5° | 75.2    | 75.2    | 72.2    | 64.9    | 61.9    | 56.0    | 45.7    | 39.8    | 32.4    | 29.5    |
| 70°   | 61.9    | 61.9    | 59.0    | 54.5    | 51.6    | 44.2    | 35.4    | 29.5    | 22.1    | 19.2    |
| 72.5° | 50.1    | 50.1    | 47.2    | 44.2    | 41.3    | 36.9    | 29.5    | 22.1    | 14.7    | 11.8    |
| 75°   | 39.8    | 39.8    | 38.3    | 35.4    | 32.4    | 29.5    | 23.6    | 17.7    | 10.3    | 5.9     |
| 77.5° | 32.4    | 32.4    | 31.0    | 29.5    | 26.5    | 23.6    | 19.2    | 14.7    | 7.4     | 2.9     |
| 80°   | 25.1    | 25.1    | 25.1    | 25.1    | 22.1    | 19.2    | 16.2    | 11.8    | 5.9     | 1.5     |
| 82.5° | 17.7    | 17.7    | 19.2    | 22.1    | 17.7    | 14.7    | 14.7    | 11.8    | 4.4     | 1.5     |
| 85°   | 11.8    | 13.3    | 14.7    | 13.3    | 11.8    | 11.8    | 20.6    | 19.2    | 4.4     | 1.5     |
| 87.5° | 5.9     | 5.9     | 5.9     | 5.9     | 5.9     | 4.4     | 5.9     | 4.4     | 2.9     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C



90°  
24442.7  
**24258.4**  
24024.0  
23564.0  
22877.0  
21842.1  
20707.0  
19437.7  
17906.0  
16590.9  
15301.0  
12317.2  
10471.4  
9281.7  
8127.4  
6799.1  
5431.1  
3664.9  
1935.7  
1034.9  
651.6  
439.3  
299.3  
227.0  
174.0  
138.6  
120.9  
104.7  
92.9  
87.0  
73.7  
60.4  
42.8  
28.0  
17.7  
10.3  
4.4  
2.9  
1.5  
1.5  
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