

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: P636329

Luminaire Tested: **IFLD-L-SA8C-930-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636329  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-930-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30314.1 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

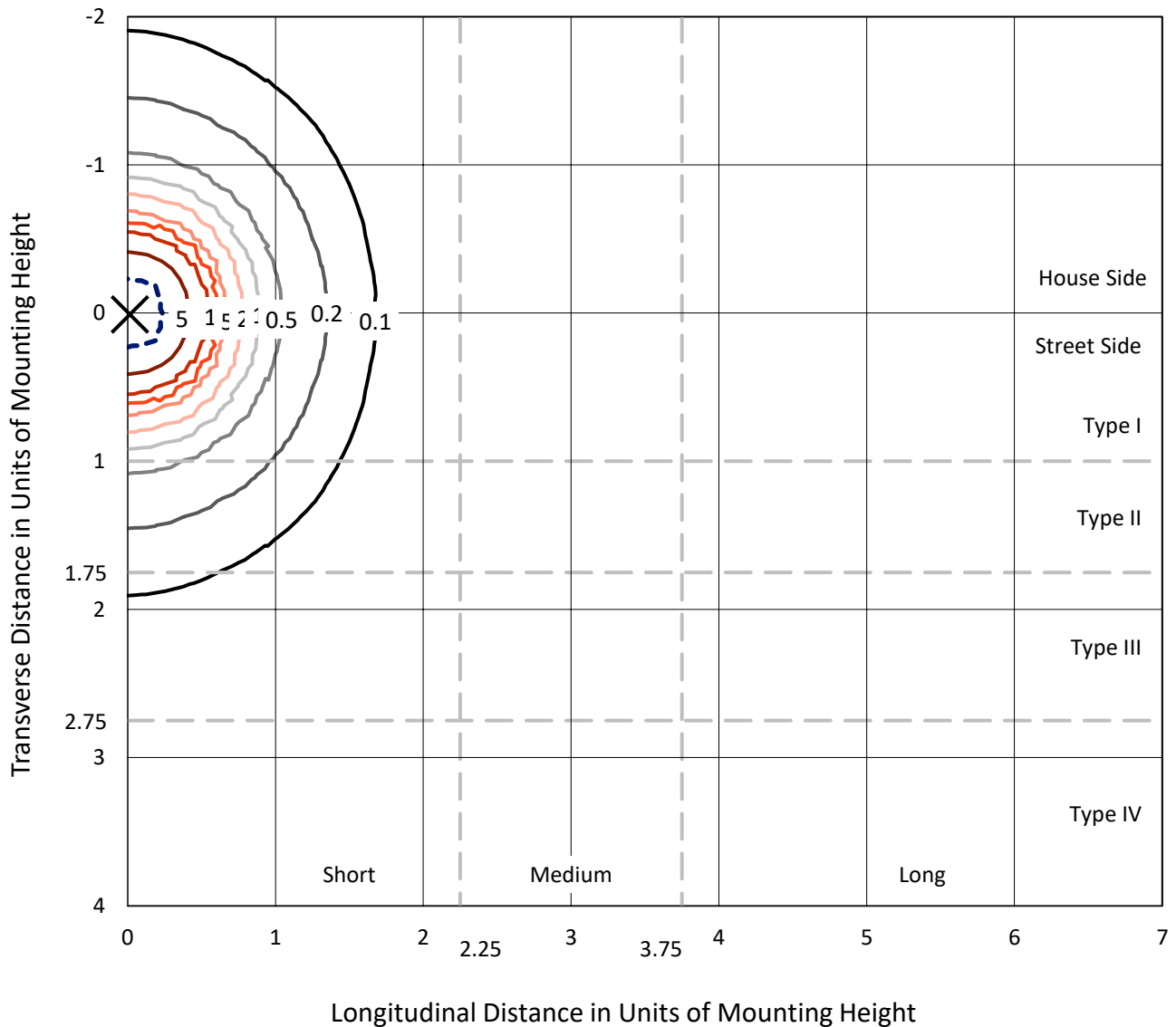
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

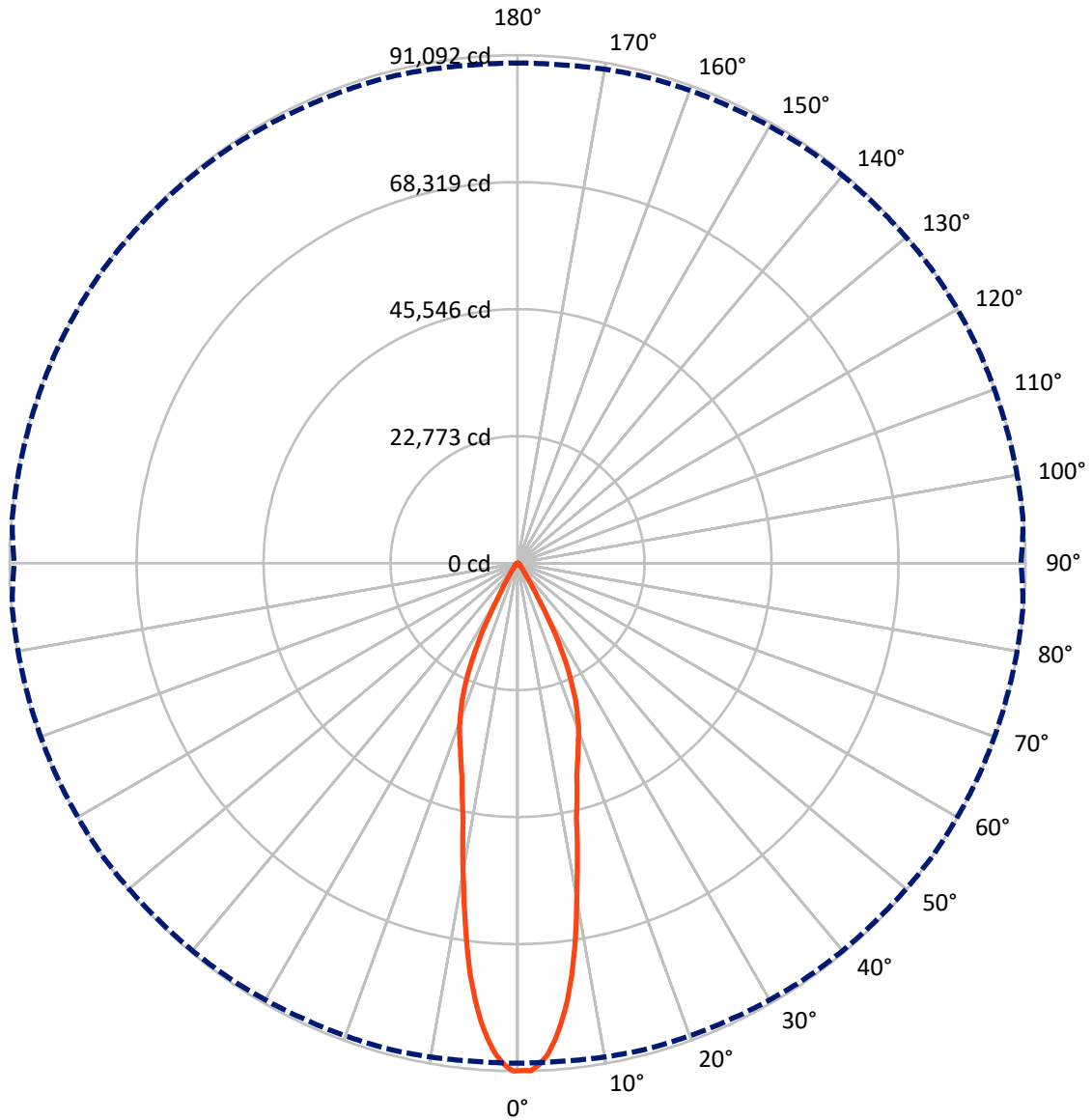
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 227.5 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    | 15157.0  | 0.0    | 15157.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15157.0  | 0.0    | 15157.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30314.1  | 0.0    | 30314.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 6922.9  | 22.8      |
| 10°-20°   | 11306.9 | 37.3      |
| 20°-30°   | 8835.6  | 29.1      |
| 30°-40°   | 1925.9  | 6.4       |
| 40°-50°   | 570.2   | 1.9       |
| 50°-60°   | 356.6   | 1.2       |
| 60°-70°   | 249.4   | 0.8       |
| 70°-80°   | 107.0   | 0.4       |
| 80°-90°   | 39.6    | 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°    | 30314.1 | 100.0     |
| 0°-180°   | 30314.1 | 100.0     |



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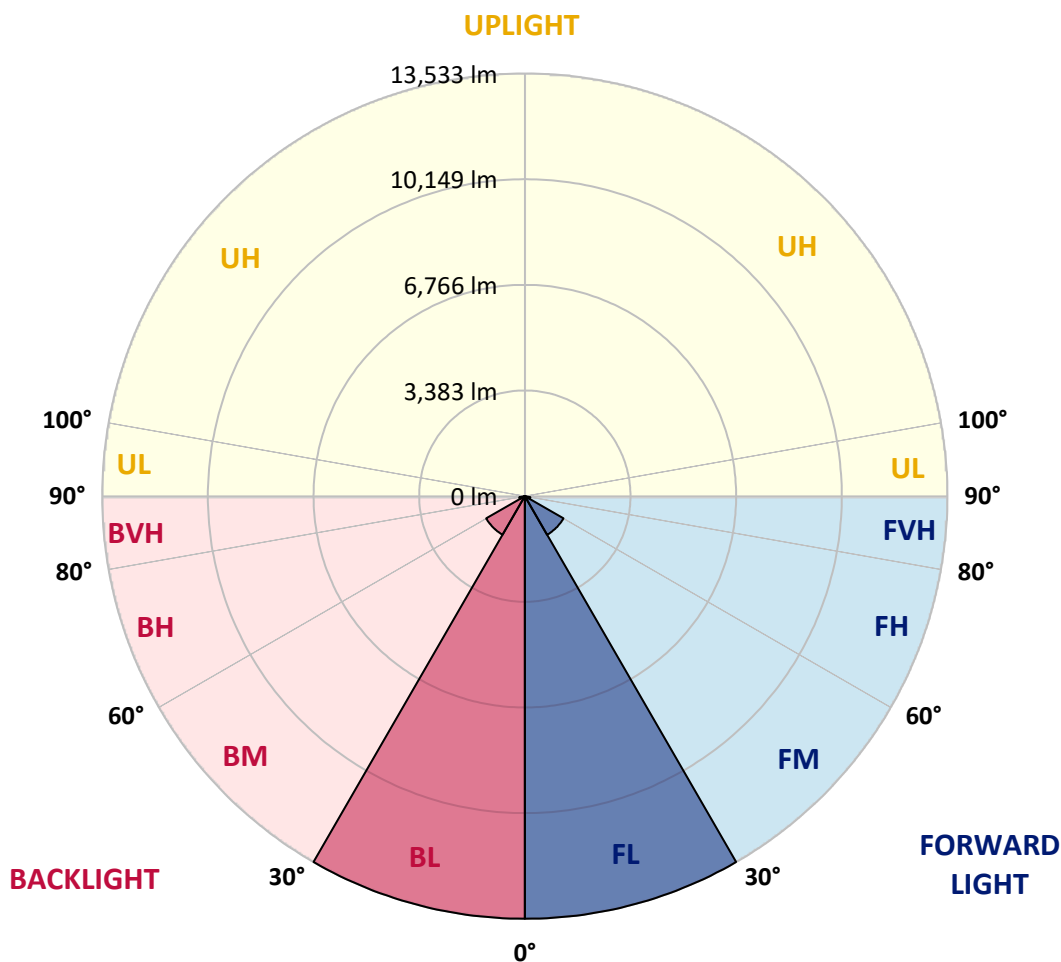
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 13532.7 | 44.6      |                         |      |        |
| FM (30°-60°)   | 1426.4  | 4.7       |                         |      |        |
| FH (60°-80°)   | 178.2   | 0.6       |                         |      | G0/660 |
| FVH (80°-90°)  | 19.8    | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 13532.7 | 44.6      | B5                      |      |        |
| BM (30°-60°)   | 1426.4  | 4.7       | B2/2500                 |      |        |
| BH (60°-80°)   | 178.2   | 0.6       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 19.8    | 0.1       |                         |      | 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°    | 90987.9 | 90987.9 | 90987.9 | 90987.9 | 90987.9 | 90987.9 | 90987.9 | 90987.9 | 90987.9 | 90987.9 |
| 1°    | 89670.8 | 89681.8 | 90170.2 | 90280.0 | 90614.8 | 90784.9 | 91092.2 | 91059.3 | 90966.0 | 90976.9 |
| 2°    | 88019.0 | 87947.7 | 88403.2 | 88908.0 | 89308.7 | 89637.9 | 90005.6 | 90082.4 | 89994.6 | 90076.9 |
| 3°    | 85302.6 | 85198.3 | 85834.9 | 86466.0 | 87162.9 | 87728.2 | 88282.4 | 88304.4 | 88200.1 | 88194.6 |
| 4°    | 81730.0 | 81537.9 | 82295.2 | 83420.2 | 84298.3 | 85050.1 | 85741.6 | 85730.6 | 85587.9 | 85703.2 |
| 5°    | 77411.1 | 77169.6 | 78151.9 | 79633.6 | 80934.3 | 81839.7 | 82602.5 | 82421.4 | 82092.2 | 82108.6 |
| 6°    | 72109.9 | 72345.8 | 73547.7 | 75627.5 | 77164.1 | 77916.0 | 78854.4 | 78514.1 | 77943.4 | 77883.0 |
| 7°    | 67126.9 | 67659.2 | 68619.6 | 71127.5 | 72955.0 | 73745.2 | 74541.0 | 73855.0 | 73081.2 | 72955.0 |
| 8°    | 61880.6 | 62769.6 | 64097.6 | 66408.0 | 68356.2 | 69151.9 | 69453.7 | 68718.4 | 67889.7 | 67856.8 |
| 9°    | 57627.5 | 58236.7 | 59378.1 | 61414.1 | 63395.2 | 63927.5 | 63993.4 | 63351.3 | 62522.6 | 62577.5 |
| 10°   | 53758.6 | 53873.9 | 54861.7 | 56612.3 | 58198.2 | 58576.9 | 58560.4 | 58094.0 | 57413.5 | 57594.6 |
| 12.5° | 45098.8 | 45411.6 | 45697.0 | 46256.8 | 46789.1 | 47036.0 | 46942.7 | 46750.7 | 46377.5 | 46394.0 |
| 15°   | 39221.4 | 39215.9 | 39248.8 | 39506.8 | 39665.9 | 39693.3 | 39693.3 | 39451.9 | 39292.7 | 39528.7 |
| 17.5° | 34035.4 | 34320.8 | 34831.1 | 35039.7 | 35248.2 | 35171.4 | 35028.7 | 34918.9 | 34814.7 | 35017.7 |
| 20°   | 30001.9 | 30128.1 | 30133.6 | 30270.8 | 31324.4 | 31379.3 | 31198.2 | 30885.4 | 30622.0 | 30572.6 |
| 22.5° | 25463.4 | 25655.5 | 25737.8 | 25858.6 | 25968.3 | 26769.5 | 26555.5 | 26050.6 | 25737.8 | 25644.5 |
| 25°   | 19114.0 | 19048.2 | 19586.0 | 20573.8 | 20733.0 | 20831.7 | 20776.9 | 20513.4 | 20310.4 | 20348.8 |
| 27.5° | 13209.2 | 13324.4 | 13302.5 | 13313.4 | 14361.6 | 14356.1 | 14339.7 | 14109.2 | 14048.8 | 13961.0 |
| 30°   | 7386.6  | 7331.7  | 7359.2  | 7287.8  | 7139.6  | 7320.7  | 7029.9  | 7276.8  | 7035.4  | 7112.2  |
| 32.5° | 4368.3  | 4329.9  | 4291.5  | 4307.9  | 4198.2  | 3929.3  | 3814.0  | 3984.2  | 3929.3  | 3907.3  |
| 35°   | 2787.8  | 2804.3  | 2853.7  | 2848.2  | 2749.4  | 2595.7  | 2431.1  | 2584.8  | 2562.8  | 2497.0  |
| 37.5° | 1778.1  | 1778.1  | 1794.5  | 1937.2  | 1854.9  | 1723.2  | 1607.9  | 1673.8  | 1668.3  | 1657.3  |
| 40°   | 1262.2  | 1262.2  | 1284.1  | 1322.6  | 1278.7  | 1212.8  | 1147.0  | 1147.0  | 1157.9  | 1125.0  |
| 42.5° | 938.4   | 938.4   | 960.4   | 982.3   | 927.4   | 905.5   | 872.6   | 850.6   | 878.0   | 850.6   |
| 45°   | 735.4   | 729.9   | 735.4   | 724.4   | 691.5   | 691.5   | 664.0   | 631.1   | 664.0   | 647.6   |
| 47.5° | 603.7   | 598.2   | 592.7   | 570.7   | 537.8   | 543.3   | 532.3   | 504.9   | 521.3   | 515.9   |
| 50°   | 526.8   | 515.9   | 521.3   | 499.4   | 472.0   | 466.5   | 466.5   | 439.0   | 444.5   | 444.5   |
| 52.5° | 461.0   | 461.0   | 455.5   | 444.5   | 433.5   | 411.6   | 417.1   | 389.6   | 389.6   | 389.6   |
| 55°   | 433.5   | 433.5   | 422.6   | 400.6   | 406.1   | 389.6   | 373.2   | 356.7   | 351.2   | 351.2   |
| 57.5° | 428.0   | 428.0   | 422.6   | 400.6   | 384.1   | 378.7   | 356.7   | 334.8   | 318.3   | 323.8   |
| 60°   | 417.1   | 417.1   | 406.1   | 400.6   | 373.2   | 362.2   | 329.3   | 312.8   | 290.9   | 290.9   |
| 62.5° | 400.6   | 395.1   | 373.2   | 340.2   | 340.2   | 312.8   | 290.9   | 257.9   | 241.5   | 236.0   |
| 65°   | 340.2   | 334.8   | 318.3   | 290.9   | 274.4   | 257.9   | 225.0   | 192.1   | 181.1   | 164.6   |
| 67.5° | 279.9   | 279.9   | 268.9   | 241.5   | 230.5   | 208.5   | 170.1   | 148.2   | 120.7   | 109.8   |
| 70°   | 230.5   | 230.5   | 219.5   | 203.0   | 192.1   | 164.6   | 131.7   | 109.8   | 82.3    | 71.3    |
| 72.5° | 186.6   | 186.6   | 175.6   | 164.6   | 153.7   | 137.2   | 109.8   | 82.3    | 54.9    | 43.9    |
| 75°   | 148.2   | 148.2   | 142.7   | 131.7   | 120.7   | 109.8   | 87.8    | 65.9    | 38.4    | 22.0    |
| 77.5° | 120.7   | 120.7   | 115.2   | 109.8   | 98.8    | 87.8    | 71.3    | 54.9    | 27.4    | 11.0    |
| 80°   | 93.3    | 93.3    | 93.3    | 93.3    | 82.3    | 71.3    | 60.4    | 43.9    | 22.0    | 5.5     |
| 82.5° | 65.9    | 65.9    | 71.3    | 82.3    | 65.9    | 54.9    | 54.9    | 43.9    | 16.5    | 5.5     |
| 85°   | 43.9    | 49.4    | 54.9    | 49.4    | 43.9    | 43.9    | 76.8    | 71.3    | 16.5    | 5.5     |
| 87.5° | 22.0    | 22.0    | 22.0    | 22.0    | 22.0    | 16.5    | 22.0    | 16.5    | 11.0    | 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°  
90987.9  
*90301.9*  
89429.4  
87717.2  
85159.9  
81307.4  
77081.8  
72356.8  
66655.0  
61759.8  
56958.0  
45850.7  
38979.9  
34551.3  
30254.3  
25309.8  
20217.1  
13642.7  
7205.5  
3852.4  
2425.6  
1635.4  
1114.0  
845.1  
647.6  
515.9  
450.0  
389.6  
345.7  
323.8  
274.4  
225.0  
159.1  
104.3  
65.9  
38.4  
16.5  
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