

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: P524260

Luminaire Tested: **IFLD-S-SA2E-927-U-55**

Issue Date: 05/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P524260  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-927-U-55  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55  
distribution lens  
Light Source: (32) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11335.6 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

Input Watts (W): 156.2  
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

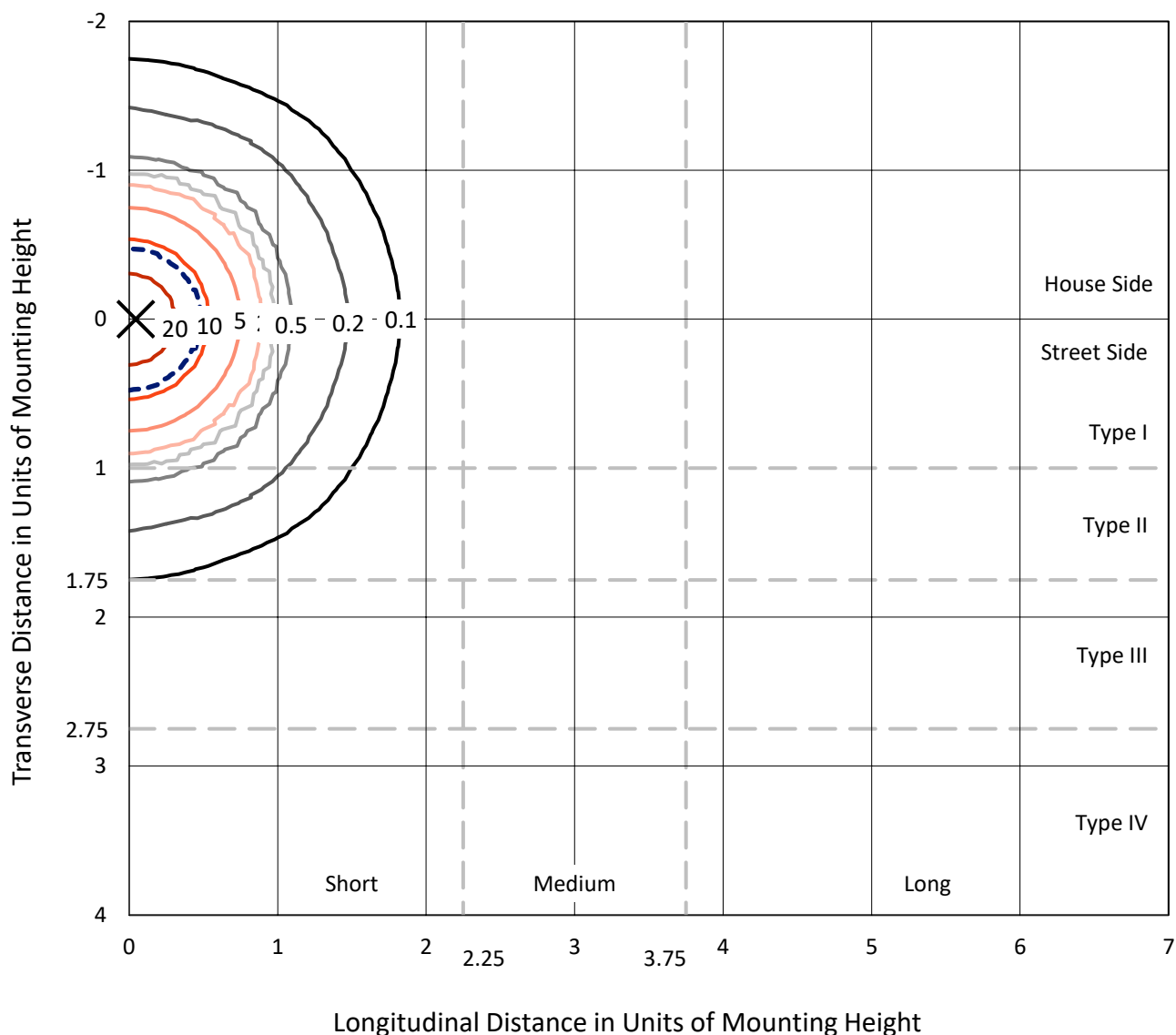
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

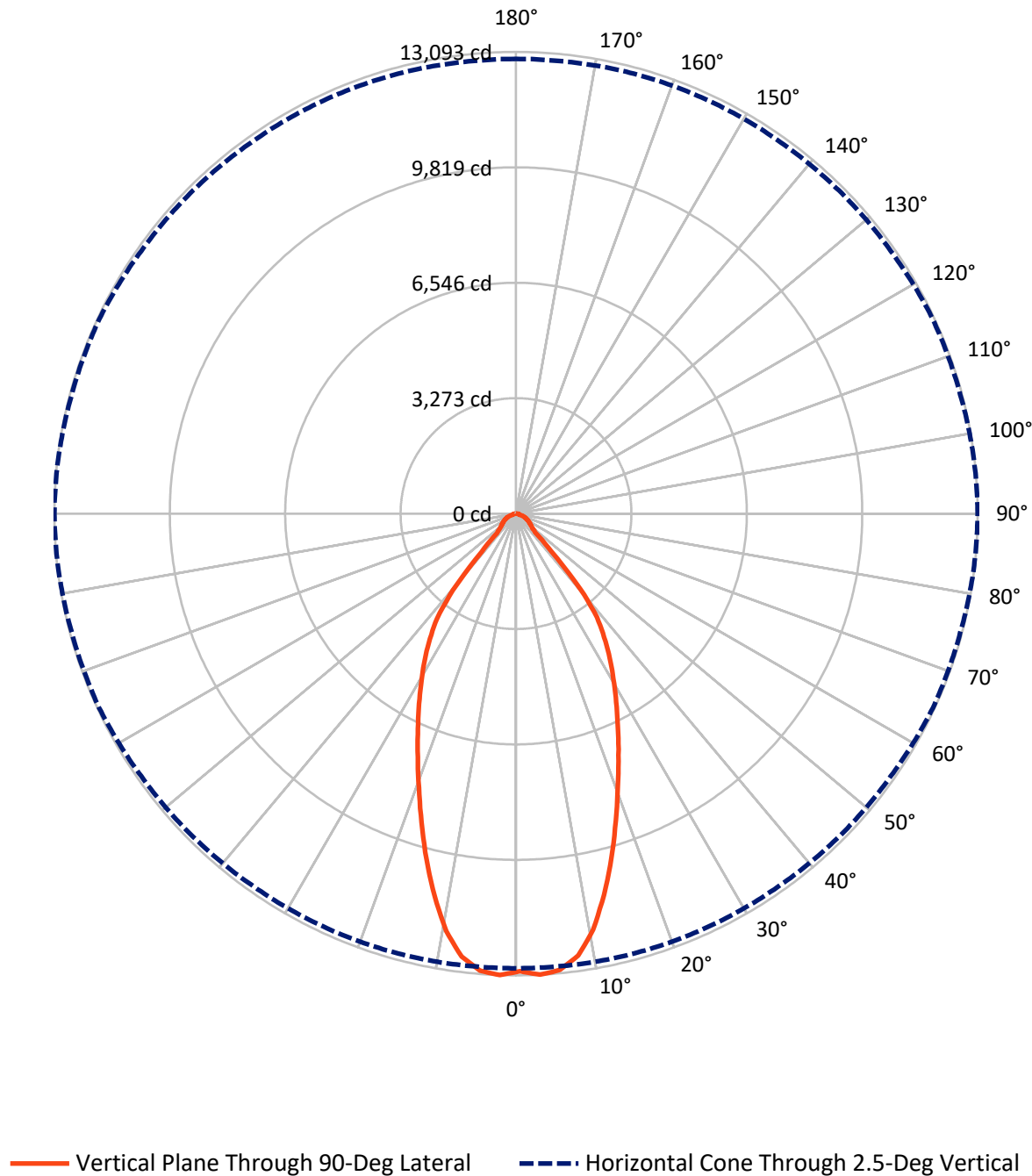


Based on 20 foot mounting height. Maximum calculated value = 32.4 fc

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    | 5667.8   | 0.0    | 5667.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5667.8   | 0.0    | 5667.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11335.6  | 0.0    | 11335.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1196.2  | 10.6      |
| 10°-20°   | 2761.3  | 24.4      |
| 20°-30°   | 3031.6  | 26.7      |
| 30°-40°   | 2628.6  | 23.2      |
| 40°-50°   | 864.9   | 7.6       |
| 50°-60°   | 387.8   | 3.4       |
| 60°-70°   | 274.1   | 2.4       |
| 70°-80°   | 148.8   | 1.3       |
| 80°-90°   | 42.2    | 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°    | 11335.6 | 100.0     |
| 0°-180°   | 11335.6 | 100.0     |

**Coefficient of Utilization**



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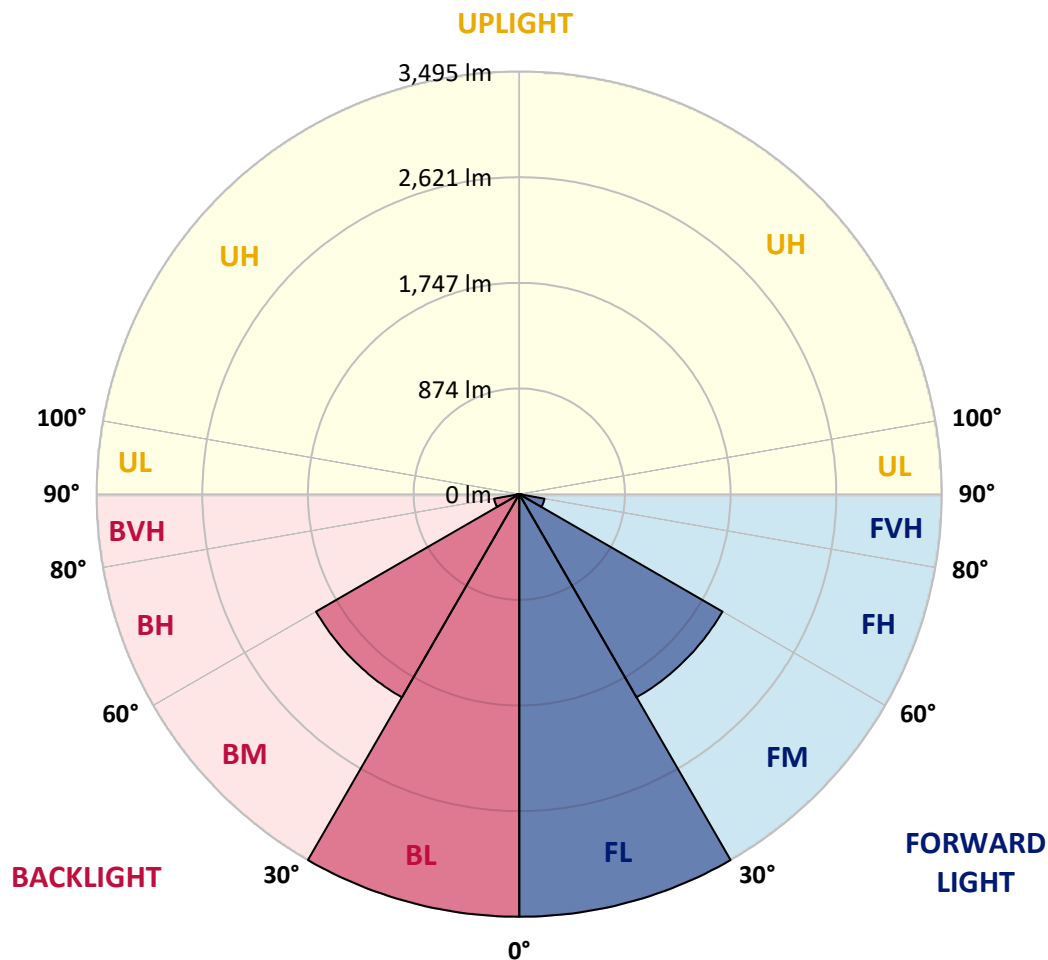
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3494.5 | 30.8      |                         |      |        |
| FM   | (30°-60°)   | 1940.7 | 17.1      |                         |      |        |
| FH   | (60°-80°)   | 211.5  | 1.9       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 21.1   | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 3494.5 | 30.8      | B4/5000                 |      |        |
| BM   | (30°-60°)   | 1940.7 | 17.1      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 211.5  | 1.9       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 21.1   | 0.2       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12975.7 | 12975.7 | 12975.7 | 12975.7 | 12975.7 | 12975.7 | 12975.7 | 12975.7 | 12975.7 | 12975.7 |
| 2.5°  | 12895.0 | 12893.3 | 12913.9 | 12924.2 | 12929.4 | 12953.4 | 12977.4 | 13041.0 | 13042.7 | 13080.5 |
| 5°    | 12877.8 | 12862.4 | 12876.1 | 12855.5 | 12860.7 | 12860.7 | 12891.6 | 12937.9 | 12955.1 | 12992.9 |
| 7.5°  | 12494.8 | 12491.4 | 12482.8 | 12460.5 | 12488.0 | 12469.1 | 12525.7 | 12567.0 | 12606.5 | 12625.4 |
| 10°   | 11780.3 | 11747.7 | 11747.7 | 11716.8 | 11744.3 | 11718.5 | 11811.3 | 11849.0 | 11916.0 | 11955.5 |
| 12.5° | 10856.3 | 10842.6 | 10844.3 | 10830.6 | 10828.9 | 10792.8 | 10901.0 | 10933.6 | 10993.7 | 11052.1 |
| 15°   | 9870.5  | 9849.9  | 9868.8  | 9868.8  | 9853.3  | 9820.7  | 9935.7  | 9980.4  | 10068.0 | 10095.5 |
| 17.5° | 8896.7  | 8888.1  | 8900.1  | 8905.2  | 8893.2  | 8862.3  | 8973.9  | 9071.8  | 9132.0  | 9132.0  |
| 20°   | 8003.6  | 8000.1  | 8015.6  | 8000.1  | 7988.1  | 7967.5  | 8070.5  | 8165.0  | 8218.2  | 8221.7  |
| 22.5° | 7218.7  | 7237.6  | 7223.8  | 7204.9  | 7179.2  | 7163.7  | 7258.2  | 7345.8  | 7381.8  | 7417.9  |
| 25°   | 6529.9  | 6535.1  | 6545.4  | 6516.2  | 6485.3  | 6466.4  | 6536.8  | 6610.7  | 6667.3  | 6688.0  |
| 27.5° | 5963.2  | 5982.1  | 5956.3  | 5911.6  | 5894.5  | 5872.1  | 5921.9  | 5975.2  | 6016.4  | 6045.6  |
| 30°   | 5411.8  | 5422.2  | 5427.3  | 5380.9  | 5339.7  | 5307.1  | 5348.3  | 5394.7  | 5410.1  | 5435.9  |
| 32.5° | 4882.9  | 4900.0  | 4917.2  | 4860.5  | 4831.3  | 4800.4  | 4821.0  | 4850.2  | 4858.8  | 4860.5  |
| 35°   | 4355.6  | 4343.6  | 4328.1  | 4307.5  | 4285.2  | 4247.4  | 4268.0  | 4278.3  | 4285.2  | 4285.2  |
| 37.5° | 3718.4  | 3728.7  | 3732.1  | 3692.6  | 3682.3  | 3656.6  | 3670.3  | 3672.0  | 3685.8  | 3694.3  |
| 40°   | 2813.3  | 2849.3  | 2825.3  | 2801.2  | 2804.7  | 2773.8  | 2768.6  | 2761.7  | 2792.7  | 2804.7  |
| 42.5° | 1530.3  | 1592.1  | 1528.6  | 1549.2  | 1533.7  | 1516.6  | 1511.4  | 1520.0  | 1480.5  | 1447.9  |
| 45°   | 769.4   | 766.0   | 779.7   | 779.7   | 793.5   | 798.6   | 786.6   | 776.3   | 771.2   | 757.4   |
| 47.5° | 620.0   | 609.7   | 608.0   | 616.6   | 626.9   | 633.8   | 623.5   | 618.3   | 616.6   | 625.2   |
| 50°   | 532.4   | 517.0   | 511.8   | 523.8   | 532.4   | 539.3   | 530.7   | 530.7   | 529.0   | 542.7   |
| 52.5° | 463.7   | 448.3   | 448.3   | 472.3   | 479.2   | 486.1   | 480.9   | 480.9   | 480.9   | 496.4   |
| 55°   | 410.5   | 398.5   | 384.7   | 415.6   | 438.0   | 444.8   | 441.4   | 439.7   | 441.4   | 458.6   |
| 57.5° | 369.3   | 362.4   | 353.8   | 360.7   | 395.0   | 403.6   | 401.9   | 401.9   | 405.3   | 419.1   |
| 60°   | 329.8   | 326.3   | 322.9   | 322.9   | 350.4   | 365.8   | 364.1   | 364.1   | 367.5   | 376.1   |
| 62.5° | 293.7   | 290.3   | 286.8   | 290.3   | 300.6   | 324.6   | 324.6   | 326.3   | 331.5   | 334.9   |
| 65°   | 257.6   | 255.9   | 255.9   | 257.6   | 261.1   | 280.0   | 286.8   | 292.0   | 297.1   | 298.8   |
| 67.5° | 223.3   | 221.6   | 223.3   | 226.7   | 226.7   | 235.3   | 250.8   | 255.9   | 261.1   | 261.1   |
| 70°   | 180.3   | 188.9   | 194.1   | 195.8   | 199.2   | 200.9   | 214.7   | 225.0   | 230.1   | 223.3   |
| 72.5° | 97.9    | 111.6   | 168.3   | 173.5   | 175.2   | 176.9   | 187.2   | 199.2   | 202.7   | 132.2   |
| 75°   | 70.4    | 70.4    | 140.8   | 149.4   | 151.1   | 151.1   | 159.7   | 171.8   | 175.2   | 101.3   |
| 77.5° | 46.4    | 44.7    | 97.9    | 108.2   | 123.7   | 99.6    | 130.5   | 144.3   | 147.7   | 84.2    |
| 80°   | 36.1    | 34.4    | 75.6    | 84.2    | 85.9    | 68.7    | 106.5   | 116.8   | 118.5   | 68.7    |
| 82.5° | 27.5    | 25.8    | 55.0    | 61.8    | 67.0    | 44.7    | 75.6    | 89.3    | 92.7    | 60.1    |
| 85°   | 15.5    | 15.5    | 27.5    | 25.8    | 39.5    | 29.2    | 42.9    | 44.7    | 60.1    | 37.8    |
| 87.5° | 5.2     | 6.9     | 12.0    | 12.0    | 13.7    | 12.0    | 17.2    | 17.2    | 18.9    | 13.7    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°

12975.7  
13092.5  
12999.8  
12656.3  
11998.5  
11091.6  
10133.3  
9154.3  
8240.6  
7438.5  
6701.7  
6054.2  
5441.0  
4881.1  
4305.8  
3730.4  
2820.1  
1463.3  
769.4  
632.0  
559.9  
513.5  
468.9  
429.4  
383.0  
340.1  
302.3  
261.1  
197.5  
113.4  
99.6  
82.4  
61.8  
61.8  
36.1  
10.3  
0.0