

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: P524328

Luminaire Tested: **IFLD-L-SA7D-930-U-55**

Issue Date: 05/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P524328  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-930-U-55  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55  
distribution lens  
Light Source: (112) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30885 lumens  
Efficiency: N/A  
Efficacy: 73.1 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): 422.6  
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

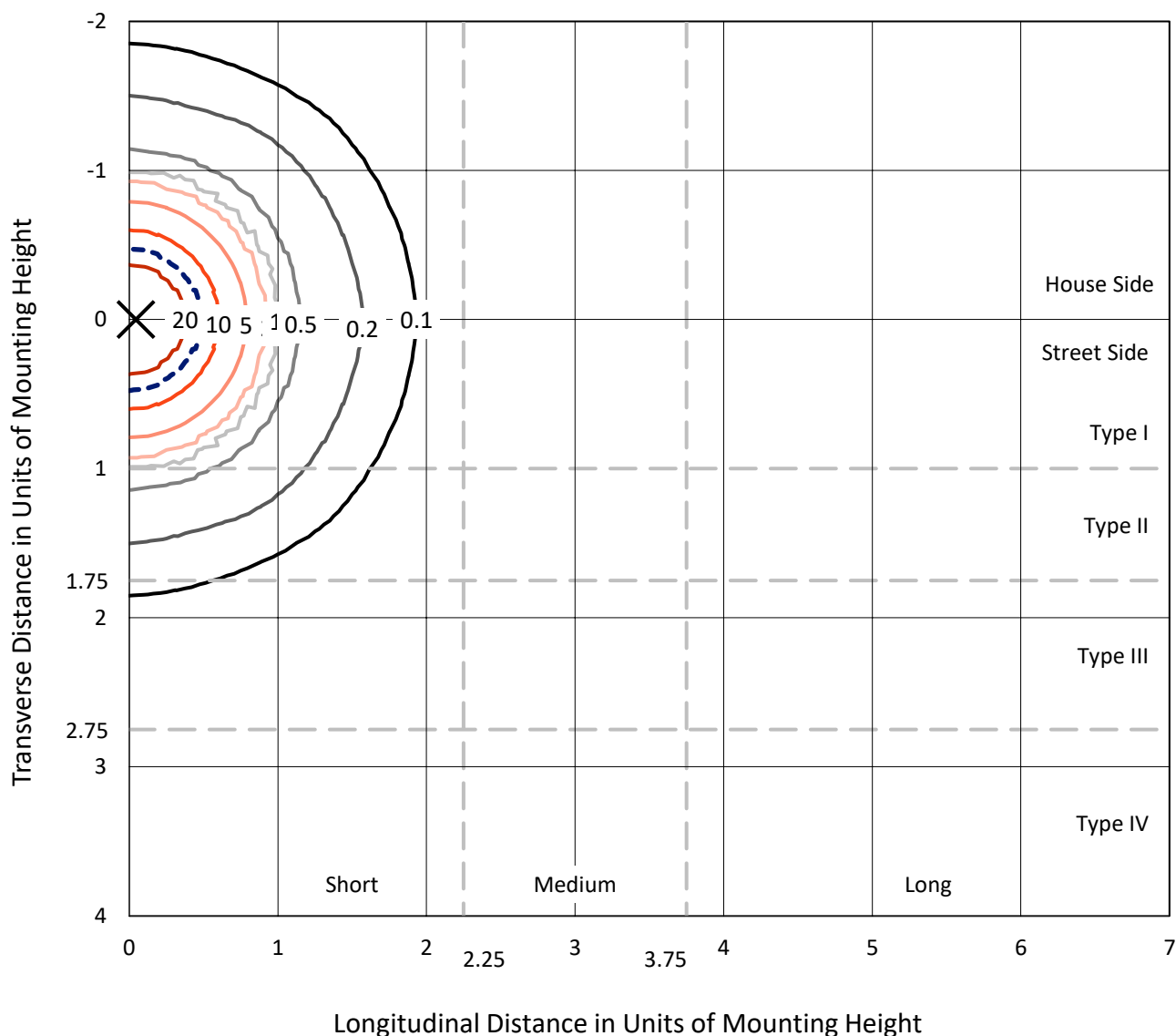
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

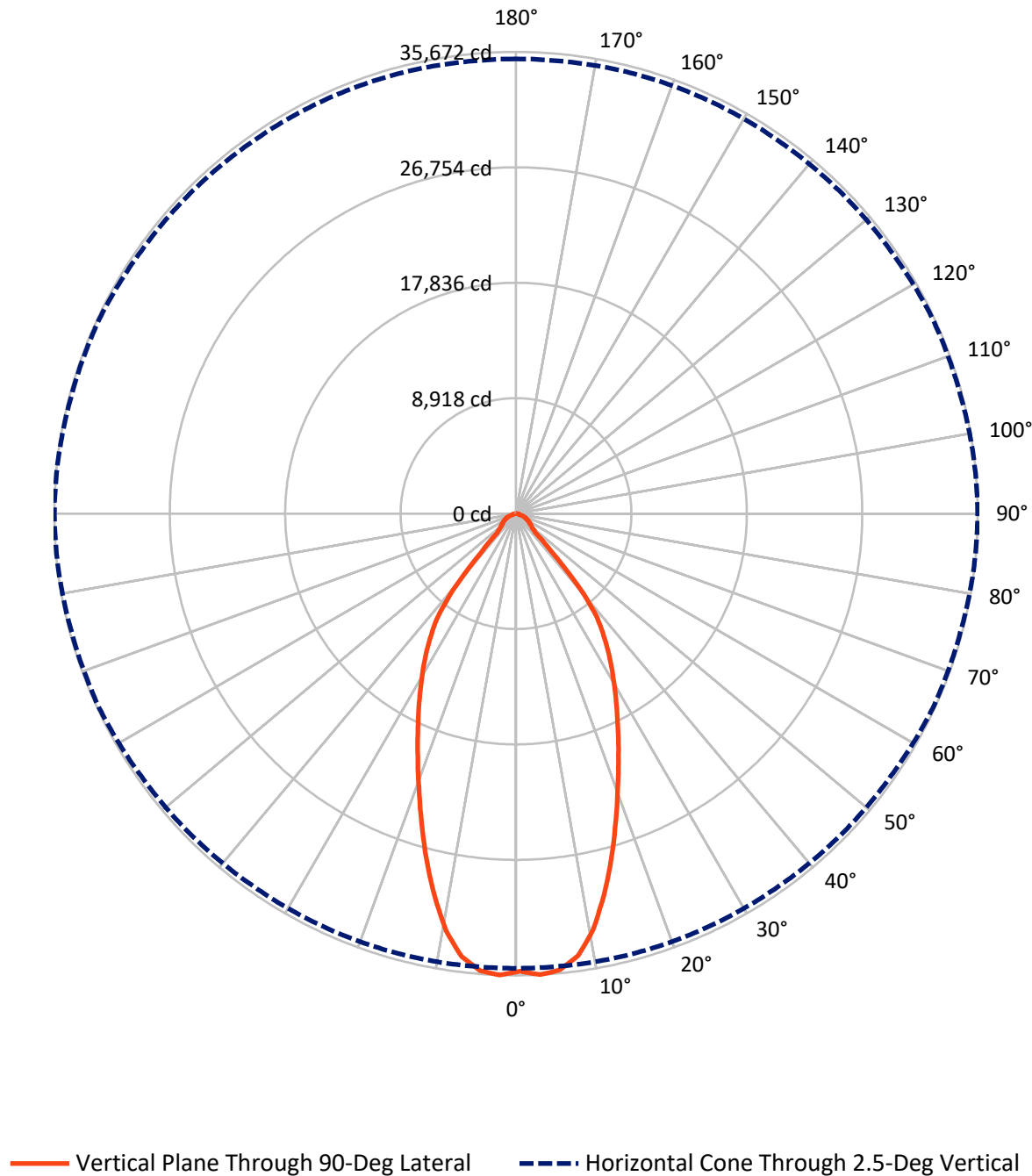


Based on 30 foot mounting height. Maximum calculated value = 39.3 fc

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    | 15442.5  | 0.0    | 15442.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15442.5  | 0.0    | 15442.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30885.0  | 0.0    | 30885.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3259.1  | 10.6      |
| 10°-20°   | 7523.4  | 24.4      |
| 20°-30°   | 8260.0  | 26.7      |
| 30°-40°   | 7162.0  | 23.2      |
| 40°-50°   | 2356.6  | 7.6       |
| 50°-60°   | 1056.6  | 3.4       |
| 60°-70°   | 746.8   | 2.4       |
| 70°-80°   | 405.5   | 1.3       |
| 80°-90°   | 115.0   | 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°    | 30885.0 | 100.0     |
| 0°-180°   | 30885.0 | 100.0     |

**Coefficient of Utilization**



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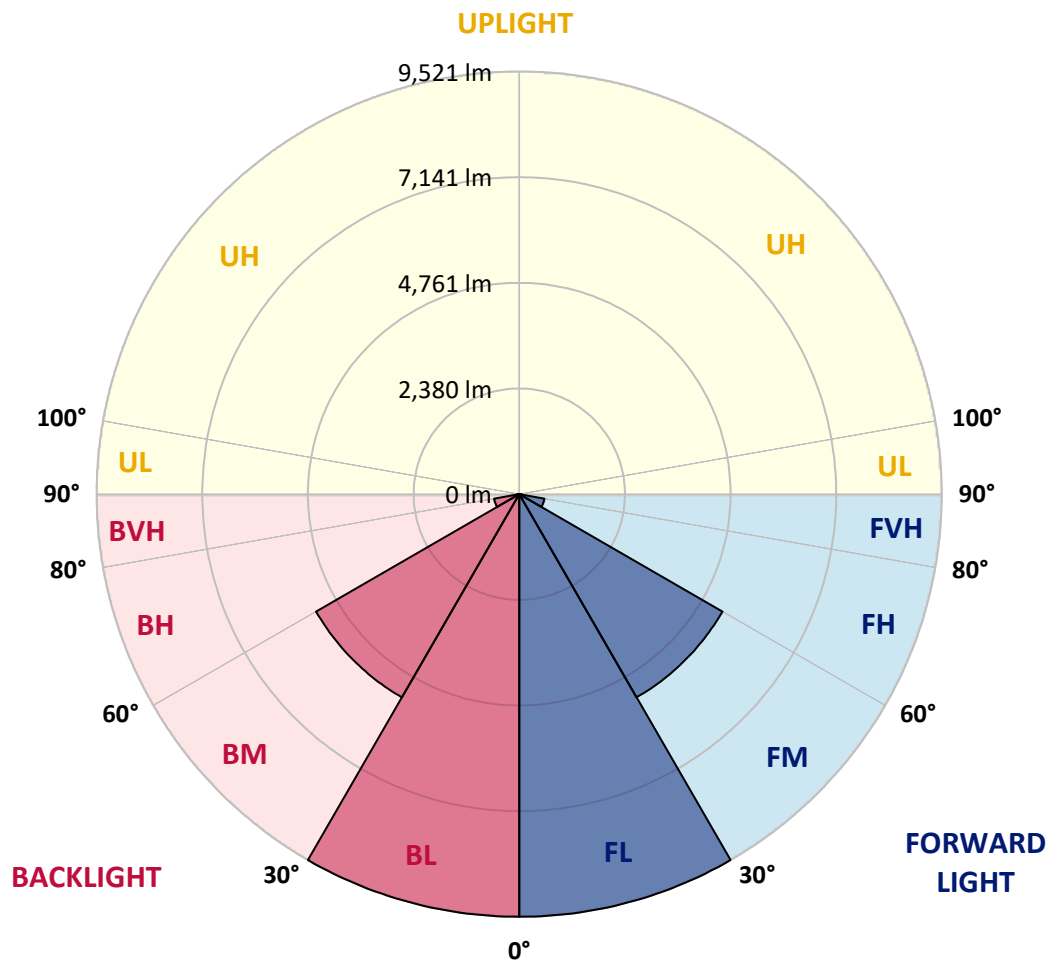
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 9521.2 | 30.8      |                         |      |        |
| FM   | (30°-60°)   | 5287.6 | 17.1      |                         |      |        |
| FH   | (60°-80°)   | 576.2  | 1.9       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 57.5   | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 9521.2 | 30.8      | B5                      |      |        |
| BM   | (30°-60°)   | 5287.6 | 17.1      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 576.2  | 1.9       | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 57.5   | 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



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 35353.7 | 35353.7 | 35353.7 | 35353.7 | 35353.7 | 35353.7 | 35353.7 | 35353.7 | 35353.7 | 35353.7 |
| 2.5°  | 35133.8 | 35129.1 | 35185.2 | 35213.3 | 35227.4 | 35292.9 | 35358.4 | 35531.5 | 35536.2 | 35639.2 |
| 5°    | 35087.0 | 35044.9 | 35082.3 | 35026.1 | 35040.2 | 35040.2 | 35124.4 | 35250.8 | 35297.5 | 35400.5 |
| 7.5°  | 34043.4 | 34034.1 | 34010.7 | 33949.8 | 34024.7 | 33973.2 | 34127.7 | 34240.0 | 34347.6 | 34399.1 |
| 10°   | 32096.8 | 32007.9 | 32007.9 | 31923.6 | 31998.5 | 31928.3 | 32181.0 | 32283.9 | 32466.4 | 32574.1 |
| 12.5° | 29579.2 | 29541.7 | 29546.4 | 29509.0 | 29504.3 | 29406.0 | 29700.9 | 29789.8 | 29953.5 | 30112.6 |
| 15°   | 26893.1 | 26837.0 | 26888.5 | 26888.5 | 26846.4 | 26757.4 | 27071.0 | 27192.6 | 27431.3 | 27506.2 |
| 17.5° | 24239.9 | 24216.5 | 24249.2 | 24263.3 | 24230.5 | 24146.3 | 24450.4 | 24717.2 | 24881.0 | 24881.0 |
| 20°   | 21806.5 | 21797.2 | 21839.3 | 21797.2 | 21764.4 | 21708.2 | 21989.0 | 22246.4 | 22391.5 | 22400.8 |
| 22.5° | 19668.0 | 19719.5 | 19682.0 | 19630.5 | 19560.4 | 19518.2 | 19775.6 | 20014.3 | 20112.5 | 20210.8 |
| 25°   | 17791.5 | 17805.5 | 17833.6 | 17754.1 | 17669.8 | 17618.4 | 17810.2 | 18011.4 | 18165.9 | 18222.0 |
| 27.5° | 16247.3 | 16298.7 | 16228.5 | 16106.9 | 16060.1 | 15999.2 | 16135.0 | 16280.0 | 16392.3 | 16471.9 |
| 30°   | 14745.1 | 14773.2 | 14787.3 | 14660.9 | 14548.6 | 14459.7 | 14572.0 | 14698.3 | 14740.5 | 14810.7 |
| 32.5° | 13303.8 | 13350.6 | 13397.4 | 13243.0 | 13163.5 | 13079.2 | 13135.4 | 13214.9 | 13238.3 | 13243.0 |
| 35°   | 11867.2 | 11834.5 | 11792.4 | 11736.2 | 11675.4 | 11572.4 | 11628.6 | 11656.7 | 11675.4 | 11675.4 |
| 37.5° | 10131.1 | 10159.2 | 10168.6 | 10060.9 | 10032.9 | 9962.7  | 10000.1 | 10004.8 | 10042.2 | 10065.6 |
| 40°   | 7665.0  | 7763.3  | 7697.8  | 7632.3  | 7641.6  | 7557.4  | 7543.4  | 7524.7  | 7608.9  | 7641.6  |
| 42.5° | 4169.4  | 4337.9  | 4164.8  | 4220.9  | 4178.8  | 4132.0  | 4118.0  | 4141.4  | 4033.7  | 3944.8  |
| 45°   | 2096.4  | 2087.1  | 2124.5  | 2124.5  | 2161.9  | 2176.0  | 2143.2  | 2115.1  | 2101.1  | 2063.7  |
| 47.5° | 1689.3  | 1661.2  | 1656.5  | 1679.9  | 1708.0  | 1726.7  | 1698.7  | 1684.6  | 1679.9  | 1703.3  |
| 50°   | 1450.6  | 1408.5  | 1394.5  | 1427.3  | 1450.6  | 1469.4  | 1446.0  | 1446.0  | 1441.3  | 1478.7  |
| 52.5° | 1263.5  | 1221.4  | 1221.4  | 1286.9  | 1305.6  | 1324.3  | 1310.3  | 1310.3  | 1310.3  | 1352.4  |
| 55°   | 1118.4  | 1085.6  | 1048.2  | 1132.4  | 1193.3  | 1212.0  | 1202.6  | 1198.0  | 1202.6  | 1249.4  |
| 57.5° | 1006.1  | 987.4   | 964.0   | 982.7   | 1076.3  | 1099.7  | 1095.0  | 1095.0  | 1104.4  | 1141.8  |
| 60°   | 898.5   | 889.1   | 879.7   | 879.7   | 954.6   | 996.7   | 992.1   | 992.1   | 1001.4  | 1024.8  |
| 62.5° | 800.2   | 790.8   | 781.5   | 790.8   | 818.9   | 884.4   | 884.4   | 889.1   | 903.1   | 912.5   |
| 65°   | 701.9   | 697.2   | 697.2   | 701.9   | 711.3   | 762.8   | 781.5   | 795.5   | 809.6   | 814.2   |
| 67.5° | 608.3   | 603.7   | 608.3   | 617.7   | 617.7   | 641.1   | 683.2   | 697.2   | 711.3   | 711.3   |
| 70°   | 491.3   | 514.7   | 528.8   | 533.5   | 542.8   | 547.5   | 584.9   | 613.0   | 627.1   | 608.3   |
| 72.5° | 266.7   | 304.2   | 458.6   | 472.6   | 477.3   | 482.0   | 510.1   | 542.8   | 552.2   | 360.3   |
| 75°   | 191.9   | 191.9   | 383.7   | 407.1   | 411.8   | 411.8   | 435.2   | 468.0   | 477.3   | 276.1   |
| 77.5° | 126.3   | 121.7   | 266.7   | 294.8   | 336.9   | 271.4   | 355.6   | 393.1   | 402.4   | 229.3   |
| 80°   | 98.3    | 93.6    | 205.9   | 229.3   | 234.0   | 187.2   | 290.1   | 318.2   | 322.9   | 187.2   |
| 82.5° | 74.9    | 70.2    | 149.7   | 168.5   | 182.5   | 121.7   | 205.9   | 243.3   | 252.7   | 163.8   |
| 85°   | 42.1    | 42.1    | 74.9    | 70.2    | 107.6   | 79.6    | 117.0   | 121.7   | 163.8   | 102.9   |
| 87.5° | 14.0    | 18.7    | 32.8    | 32.8    | 37.4    | 32.8    | 46.8    | 46.8    | 51.5    | 37.4    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°

35353.7  
35671.9  
35419.2  
34483.3  
32691.1  
30220.3  
27609.1  
24941.8  
22452.3  
20267.0  
18259.4  
16495.3  
14824.7  
13299.2  
11731.5  
10163.9  
7683.8  
3986.9  
2096.4  
1722.1  
1525.5  
1399.2  
1277.5  
1169.9  
1043.5  
926.5  
823.6  
711.3  
538.1  
308.8  
271.4  
224.6  
168.5  
168.5  
98.3  
28.1  
0.0