

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: P524318

Luminaire Tested: **IFLD-S-SA6D-930-U-55**

Issue Date: 05/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P524318  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-930-U-55  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55 distribution lens  
Light Source: (96) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28949.3 lumens  
Efficiency: N/A  
Efficacy: 78.6 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): 368.2  
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

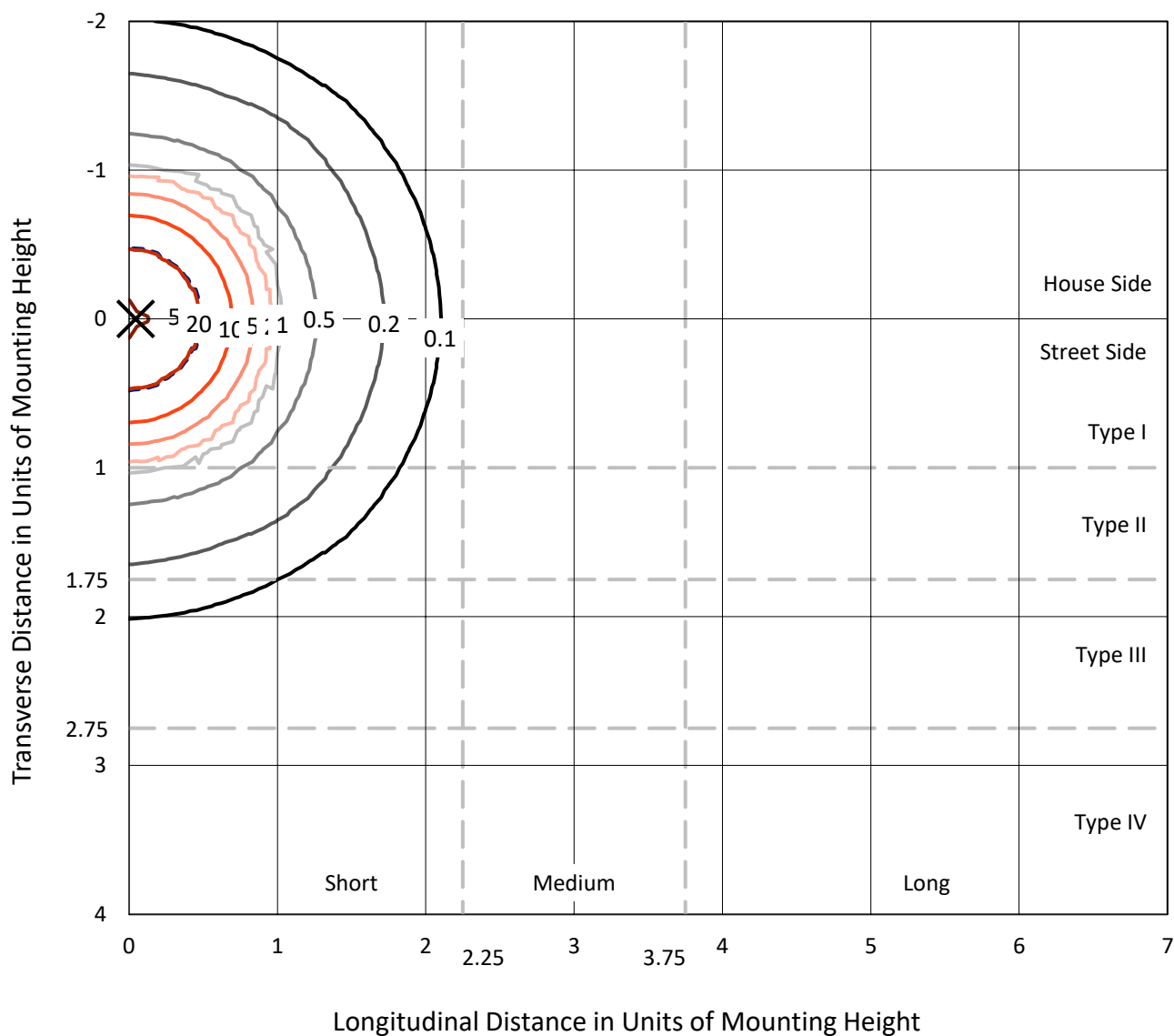
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

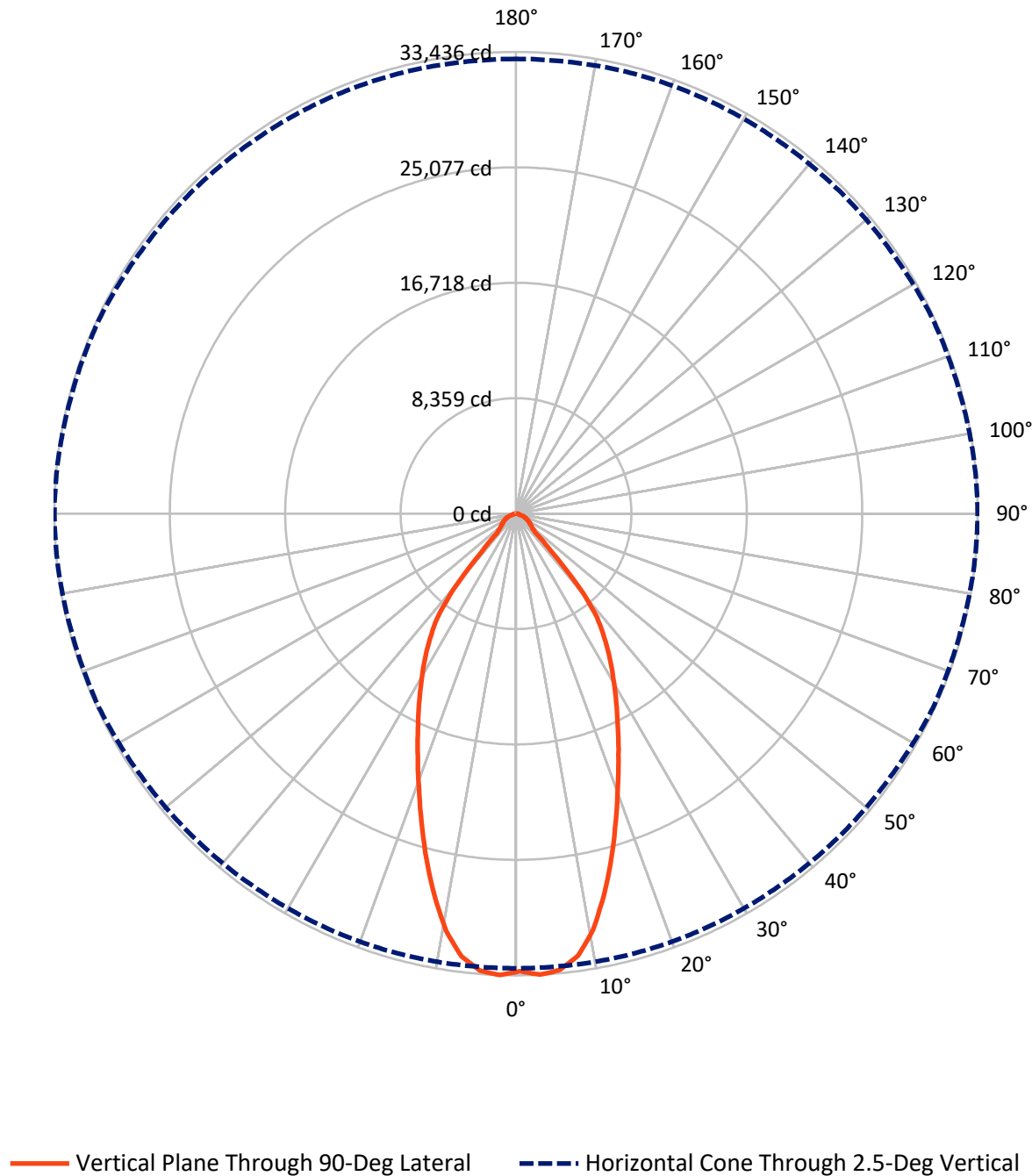


Based on 25 foot mounting height. Maximum calculated value = 53 fc

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    | 14474.7  | 0.0    | 14474.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14474.7  | 0.0    | 14474.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28949.3  | 0.0    | 28949.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3054.9  | 10.6      |
| 10°-20°   | 7051.8  | 24.4      |
| 20°-30°   | 7742.3  | 26.7      |
| 30°-40°   | 6713.1  | 23.2      |
| 40°-50°   | 2208.9  | 7.6       |
| 50°-60°   | 990.4   | 3.4       |
| 60°-70°   | 700.0   | 2.4       |
| 70°-80°   | 380.1   | 1.3       |
| 80°-90°   | 107.8   | 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°    | 28949.3 | 100.0     |
| 0°-180°   | 28949.3 | 100.0     |

**Coefficient of Utilization**



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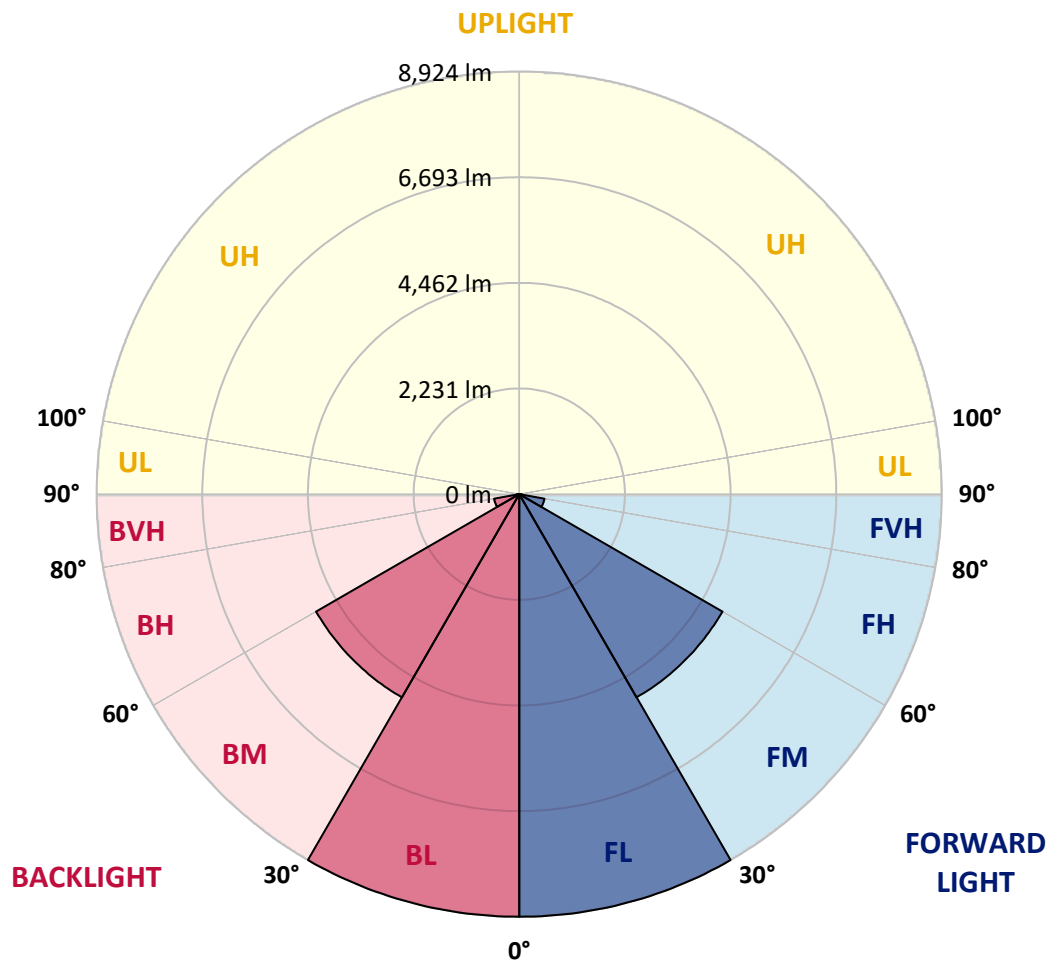
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 8924.5 | 30.8      |                         |      |        |
| FM   | (30°-60°)   | 4956.2 | 17.1      |                         |      |        |
| FH   | (60°-80°)   | 540.1  | 1.9       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 53.9   | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 8924.5 | 30.8      | B5                      |      |        |
| BM   | (30°-60°)   | 4956.2 | 17.1      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 540.1  | 1.9       | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 53.9   | 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°    | 33137.9 | 33137.9 | 33137.9 | 33137.9 | 33137.9 | 33137.9 | 33137.9 | 33137.9 | 33137.9 | 33137.9 |
| 2.5°  | 32931.8 | 32927.4 | 32980.0 | 33006.3 | 33019.5 | 33080.9 | 33142.3 | 33304.6 | 33309.0 | 33405.5 |
| 5°    | 32887.9 | 32848.4 | 32883.5 | 32830.9 | 32844.0 | 32844.0 | 32923.0 | 33041.4 | 33085.3 | 33181.8 |
| 7.5°  | 31909.8 | 31901.0 | 31879.1 | 31822.0 | 31892.2 | 31844.0 | 31988.7 | 32094.0 | 32194.9 | 32243.1 |
| 10°   | 30085.1 | 30001.8 | 30001.8 | 29922.8 | 29993.0 | 29927.2 | 30164.0 | 30260.5 | 30431.6 | 30532.5 |
| 12.5° | 27725.3 | 27690.2 | 27694.6 | 27659.5 | 27655.1 | 27563.0 | 27839.3 | 27922.7 | 28076.2 | 28225.3 |
| 15°   | 25207.6 | 25155.0 | 25203.2 | 25203.2 | 25163.8 | 25080.4 | 25374.3 | 25488.3 | 25712.0 | 25782.2 |
| 17.5° | 22720.6 | 22698.7 | 22729.4 | 22742.6 | 22711.9 | 22632.9 | 22918.0 | 23168.0 | 23321.5 | 23321.5 |
| 20°   | 20439.8 | 20431.0 | 20470.5 | 20431.0 | 20400.3 | 20347.7 | 20610.9 | 20852.1 | 20988.1 | 20996.8 |
| 22.5° | 18435.3 | 18483.5 | 18448.4 | 18400.2 | 18334.4 | 18294.9 | 18536.2 | 18759.9 | 18852.0 | 18944.1 |
| 25°   | 16676.4 | 16689.6 | 16715.9 | 16641.3 | 16562.4 | 16514.1 | 16694.0 | 16882.6 | 17027.3 | 17079.9 |
| 27.5° | 15229.0 | 15277.2 | 15211.4 | 15097.4 | 15053.5 | 14996.5 | 15123.7 | 15259.7 | 15364.9 | 15439.5 |
| 30°   | 13821.0 | 13847.3 | 13860.5 | 13742.0 | 13636.8 | 13553.4 | 13658.7 | 13777.1 | 13816.6 | 13882.4 |
| 32.5° | 12470.0 | 12513.9 | 12557.8 | 12413.0 | 12338.4 | 12259.5 | 12312.1 | 12386.7 | 12408.6 | 12413.0 |
| 35°   | 11123.5 | 11092.8 | 11053.3 | 11000.6 | 10943.6 | 10847.1 | 10899.8 | 10926.1 | 10943.6 | 10943.6 |
| 37.5° | 9496.2  | 9522.5  | 9531.3  | 9430.4  | 9404.1  | 9338.3  | 9373.4  | 9377.7  | 9412.8  | 9434.8  |
| 40°   | 7184.6  | 7276.7  | 7215.3  | 7153.9  | 7162.7  | 7083.7  | 7070.6  | 7053.0  | 7132.0  | 7162.7  |
| 42.5° | 3908.1  | 4066.0  | 3903.7  | 3956.4  | 3916.9  | 3873.0  | 3859.9  | 3881.8  | 3780.9  | 3697.6  |
| 45°   | 1965.0  | 1956.3  | 1991.3  | 1991.3  | 2026.4  | 2039.6  | 2008.9  | 1982.6  | 1969.4  | 1934.3  |
| 47.5° | 1583.4  | 1557.1  | 1552.7  | 1574.7  | 1601.0  | 1618.5  | 1592.2  | 1579.0  | 1574.7  | 1596.6  |
| 50°   | 1359.7  | 1320.3  | 1307.1  | 1337.8  | 1359.7  | 1377.3  | 1355.3  | 1355.3  | 1351.0  | 1386.0  |
| 52.5° | 1184.3  | 1144.8  | 1144.8  | 1206.2  | 1223.8  | 1241.3  | 1228.1  | 1228.1  | 1228.1  | 1267.6  |
| 55°   | 1048.3  | 1017.6  | 982.5   | 1061.5  | 1118.5  | 1136.0  | 1127.3  | 1122.9  | 1127.3  | 1171.1  |
| 57.5° | 943.0   | 925.5   | 903.6   | 921.1   | 1008.8  | 1030.8  | 1026.4  | 1026.4  | 1035.1  | 1070.2  |
| 60°   | 842.2   | 833.4   | 824.6   | 824.6   | 894.8   | 934.3   | 929.9   | 929.9   | 938.7   | 960.6   |
| 62.5° | 750.0   | 741.3   | 732.5   | 741.3   | 767.6   | 829.0   | 829.0   | 833.4   | 846.5   | 855.3   |
| 65°   | 657.9   | 653.5   | 653.5   | 657.9   | 666.7   | 715.0   | 732.5   | 745.7   | 758.8   | 763.2   |
| 67.5° | 570.2   | 565.8   | 570.2   | 579.0   | 579.0   | 600.9   | 640.4   | 653.5   | 666.7   | 666.7   |
| 70°   | 460.6   | 482.5   | 495.6   | 500.0   | 508.8   | 513.2   | 548.3   | 574.6   | 587.8   | 570.2   |
| 72.5° | 250.0   | 285.1   | 429.8   | 443.0   | 447.4   | 451.8   | 478.1   | 508.8   | 517.6   | 337.7   |
| 75°   | 179.8   | 179.8   | 359.7   | 381.6   | 386.0   | 386.0   | 407.9   | 438.6   | 447.4   | 258.8   |
| 77.5° | 118.4   | 114.0   | 250.0   | 276.3   | 315.8   | 254.4   | 333.4   | 368.4   | 377.2   | 214.9   |
| 80°   | 92.1    | 87.7    | 193.0   | 214.9   | 219.3   | 175.4   | 271.9   | 298.3   | 302.6   | 175.4   |
| 82.5° | 70.2    | 65.8    | 140.4   | 157.9   | 171.1   | 114.0   | 193.0   | 228.1   | 236.9   | 153.5   |
| 85°   | 39.5    | 39.5    | 70.2    | 65.8    | 100.9   | 74.6    | 109.7   | 114.0   | 153.5   | 96.5    |
| 87.5° | 13.2    | 17.5    | 30.7    | 30.7    | 35.1    | 30.7    | 43.9    | 43.9    | 48.2    | 35.1    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°

33137.9  
33436.2  
33199.3  
32322.1  
30642.1  
28326.2  
25878.7  
23378.6  
21045.1  
18996.7  
17115.0  
15461.4  
13895.5  
12465.6  
10996.3  
9526.9  
7202.2  
3737.1  
1965.0  
1614.1  
1429.9  
1311.5  
1197.4  
1096.6  
978.1  
868.5  
772.0  
666.7  
504.4  
289.5  
254.4  
210.5  
157.9  
157.9  
92.1  
26.3  
0.0