

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: P636090

Luminaire Tested: **IFLD-L-SA7A-940-U-22-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636090  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-940-U-22-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens and Visor  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21491.8 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

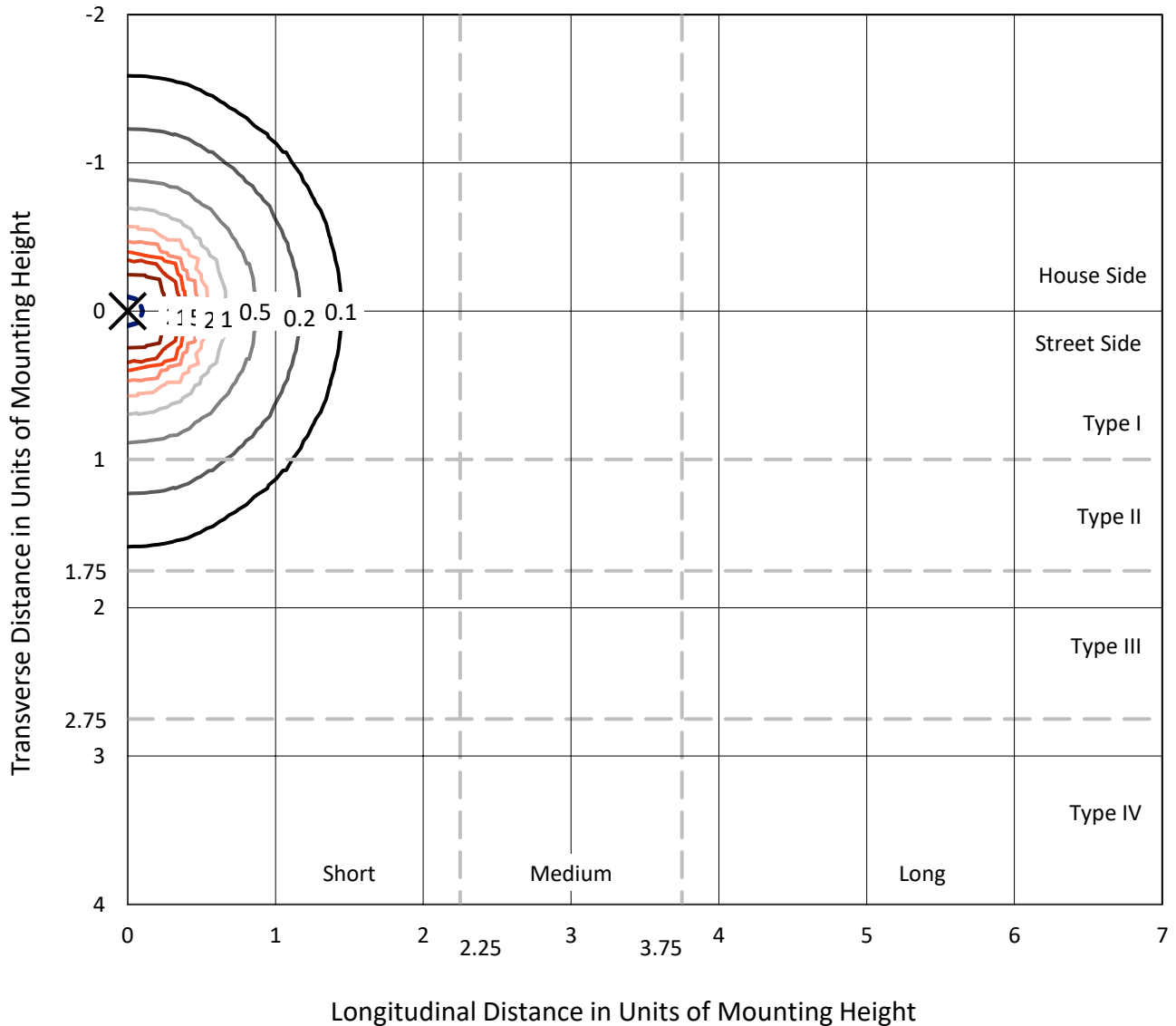
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P636090  
 CATALOG NUMBER: IFLD-L-SA7A-940-U-22-VI

### Iso-Footcandle Lines of Horizontal Illumination

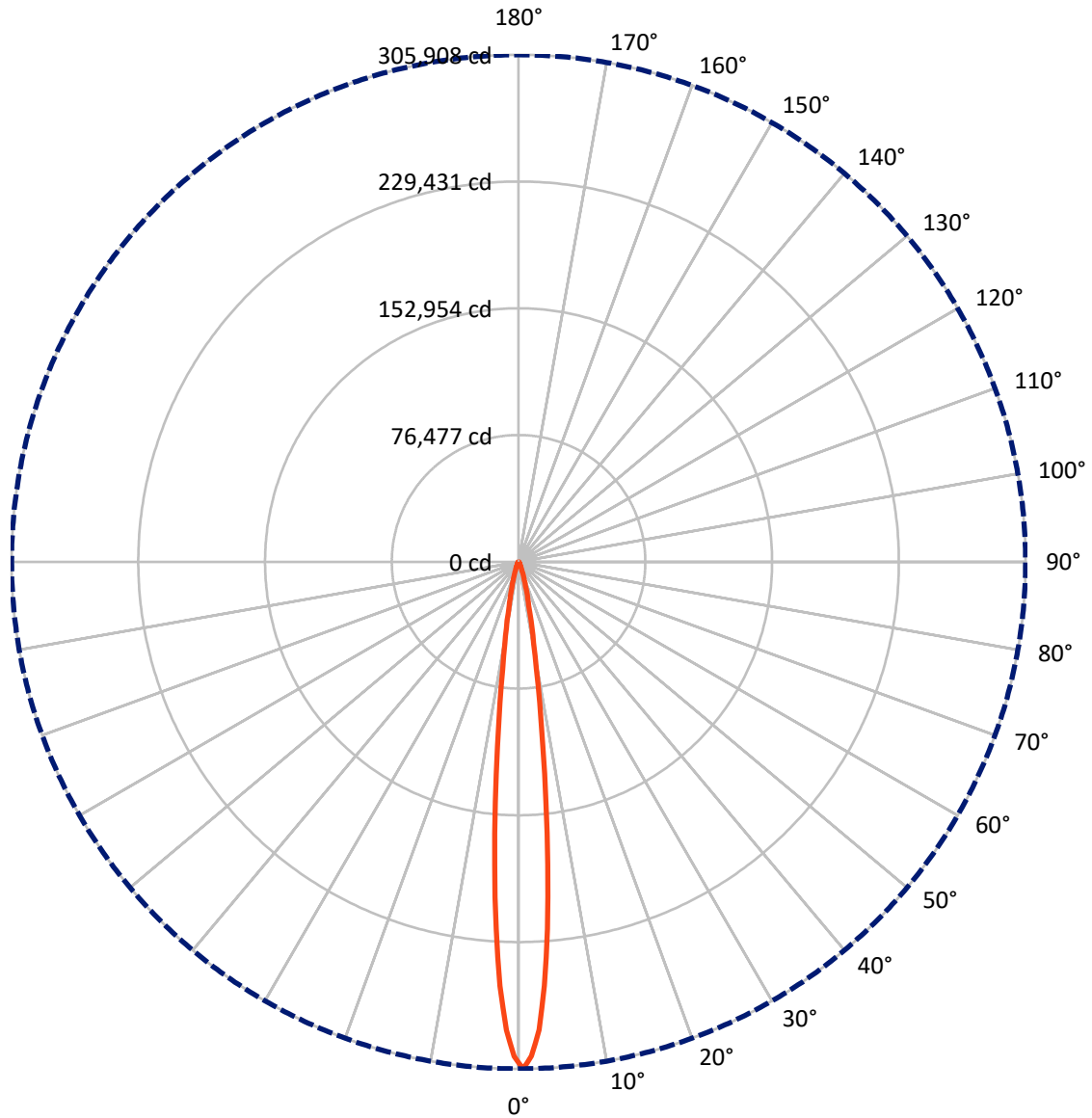
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 764.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P636090  
CATALOG NUMBER: IFLD-L-SA7A-940-U-22-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P636090  
 CATALOG NUMBER: IFLD-L-SA7A-940-U-22-VI

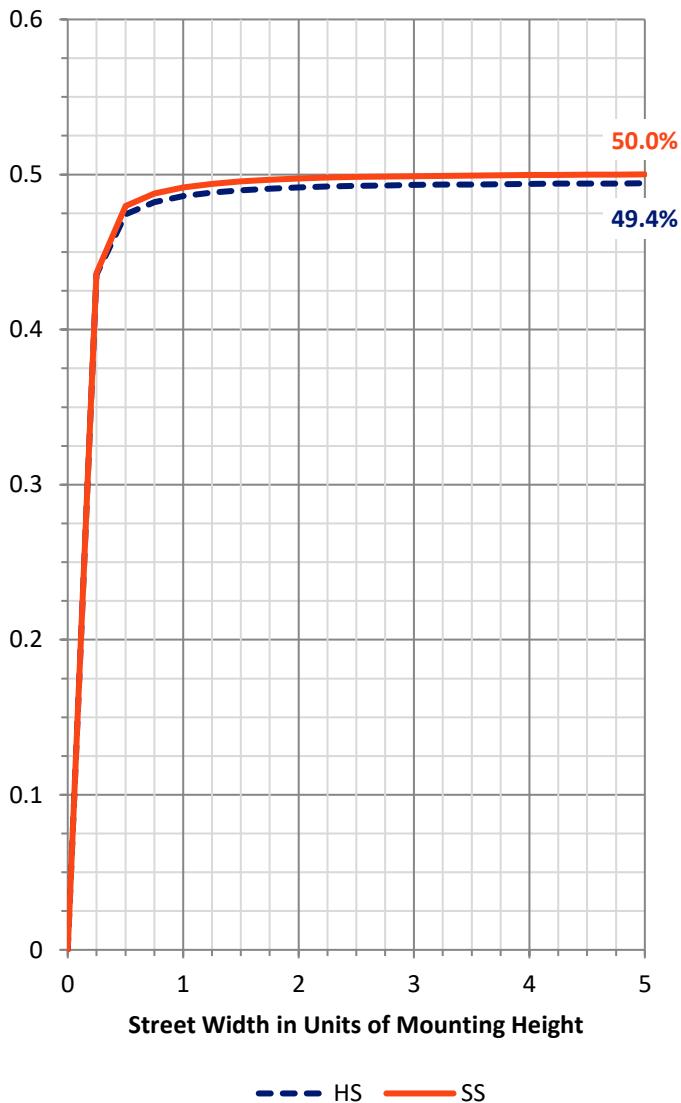
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10745.9  | 0.0    | 10745.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10745.9  | 0.0    | 10745.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21491.8  | 0.0    | 21491.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 13101.0 | 61.0      |
| 10°-20°   | 5869.3  | 27.3      |
| 20°-30°   | 1310.8  | 6.1       |
| 30°-40°   | 427.8   | 2.0       |
| 40°-50°   | 295.1   | 1.4       |
| 50°-60°   | 222.9   | 1.0       |
| 60°-70°   | 152.6   | 0.7       |
| 70°-80°   | 80.3    | 0.4       |
| 80°-90°   | 32.1    | 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°    | 21491.8 | 100.0     |
| 0°-180°   | 21491.8 | 100.0     |

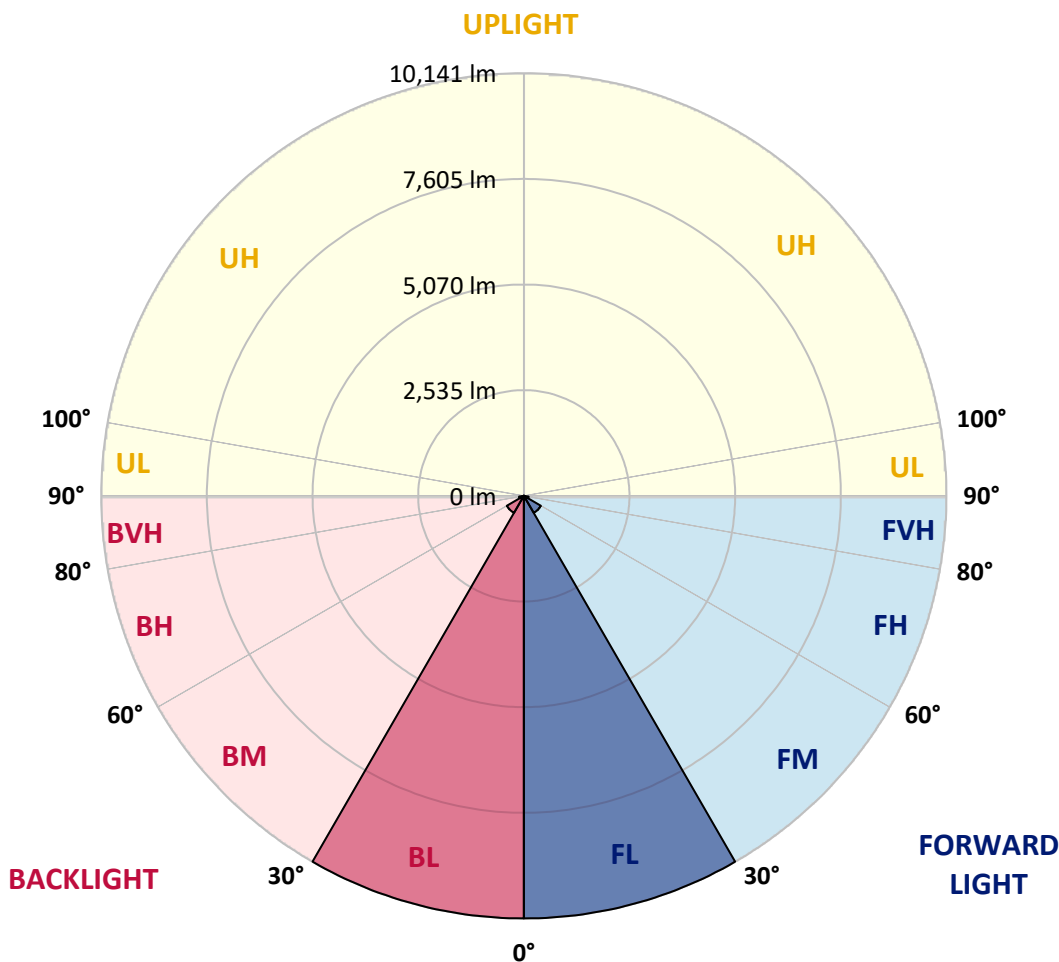


REPORT NUMBER: P636090  
 CATALOG NUMBER: IFLD-L-SA7A-940-U-22-VI

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 10140.5 | 47.2      |                         |      |        |
| FM (30°-60°)   | 472.9   | 2.2       |                         |      |        |
| FH (60°-80°)   | 116.4   | 0.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 16.0    | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 10140.5 | 47.2      | B5                      |      |        |
| BM (30°-60°)   | 472.9   | 2.2       | B1/1000                 |      |        |
| BH (60°-80°)   | 116.4   | 0.5       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 16.0    | 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





REPORT NUMBER: P636090  
 CATALOG NUMBER: IFLD-L-SA7A-940-U-22-VI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°       | 5°       | 15°      | 25°      | 35°      | 45°      | 55°      | 65°      | 75°      | 85°      |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0°    | 305908.0 | 305908.0 | 305908.0 | 305908.0 | 305908.0 | 305908.0 | 305908.0 | 305908.0 | 305908.0 | 305908.0 |
| 1°    | 298313.0 | 298718.8 | 298267.1 | 300548.6 | 301490.4 | 301980.4 | 302037.8 | 303324.0 | 302332.5 | 302608.2 |
| 2°    | 282591.0 | 283494.4 | 281982.3 | 283444.6 | 286369.3 | 287475.6 | 285672.6 | 287900.6 | 287104.3 | 287567.5 |
| 3°    | 256173.2 | 257279.5 | 255189.4 | 256977.1 | 260740.1 | 261582.3 | 258627.0 | 261792.9 | 261712.5 | 262378.6 |
| 4°    | 222122.2 | 223917.6 | 220931.6 | 223048.6 | 224713.8 | 227646.1 | 224782.7 | 228385.0 | 228316.1 | 229472.1 |
| 5°    | 183469.8 | 185410.6 | 182815.2 | 185012.5 | 186589.7 | 187680.7 | 186631.8 | 190616.8 | 190869.5 | 192063.9 |
| 6°    | 145648.0 | 147458.7 | 144560.9 | 146658.7 | 149158.4 | 149606.3 | 149334.5 | 152764.5 | 153526.3 | 152596.1 |
| 7°    | 112090.8 | 112542.6 | 112087.0 | 113993.4 | 115999.3 | 116072.1 | 116424.3 | 119440.8 | 120110.7 | 119789.2 |
| 8°    | 85845.3  | 83778.2  | 85554.4  | 86565.0  | 87185.2  | 90033.3  | 90243.8  | 91763.6  | 92996.2  | 93084.3  |
| 9°    | 65345.8  | 63431.8  | 65487.5  | 65889.4  | 67313.5  | 69843.8  | 69526.1  | 71187.5  | 71960.8  | 71911.0  |
| 10°   | 49819.0  | 48846.7  | 49876.4  | 50320.5  | 51491.9  | 53635.6  | 54007.0  | 54768.8  | 55343.0  | 55718.1  |
| 12.5° | 27034.1  | 27260.0  | 27857.1  | 28324.2  | 29901.4  | 30471.7  | 30701.4  | 30766.5  | 30762.7  | 30823.9  |
| 15°   | 16793.9  | 16977.7  | 17394.9  | 18240.9  | 19201.8  | 19910.0  | 20009.5  | 19642.0  | 19324.3  | 19274.5  |
| 17.5° | 10473.7  | 10401.0  | 11381.0  | 12307.4  | 13463.5  | 13831.0  | 13448.1  | 13027.1  | 12594.5  | 12345.7  |
| 20°   | 6285.8   | 6335.5   | 6668.6   | 7082.0   | 8016.1   | 8651.5   | 8253.4   | 7824.7   | 7376.8   | 7082.0   |
| 22.5° | 3571.6   | 3625.2   | 3770.7   | 3985.1   | 4341.1   | 4919.1   | 4666.5   | 4233.9   | 3916.2   | 3786.0   |
| 25°   | 2109.3   | 2109.3   | 2197.3   | 2293.0   | 2442.3   | 2576.3   | 2522.7   | 2293.0   | 2105.5   | 2051.9   |
| 27.5° | 1366.6   | 1355.2   | 1385.8   | 1431.7   | 1500.6   | 1508.3   | 1447.0   | 1378.1   | 1282.4   | 1248.0   |
| 30°   | 999.1    | 1003.0   | 999.1    | 1018.3   | 1014.4   | 987.7    | 949.4    | 953.2    | 914.9    | 911.1    |
| 32.5° | 811.6    | 815.4    | 815.4    | 811.6    | 792.4    | 750.3    | 723.5    | 750.3    | 742.7    | 735.0    |
| 35°   | 673.7    | 677.6    | 715.9    | 712.0    | 681.4    | 635.5    | 616.3    | 647.0    | 669.9    | 635.5    |
| 37.5° | 581.9    | 585.7    | 616.3    | 631.6    | 593.4    | 562.7    | 539.8    | 566.6    | 601.0    | 562.7    |
| 40°   | 513.0    | 516.8    | 524.5    | 528.3    | 509.1    | 493.8    | 482.3    | 490.0    | 505.3    | 486.2    |
| 42.5° | 451.7    | 447.9    | 451.7    | 447.9    | 424.9    | 432.6    | 424.9    | 413.4    | 424.9    | 409.6    |
| 45°   | 394.3    | 394.3    | 394.3    | 382.8    | 359.8    | 375.2    | 367.5    | 356.0    | 359.8    | 348.4    |
| 47.5° | 359.8    | 359.8    | 359.8    | 344.5    | 325.4    | 325.4    | 329.2    | 310.1    | 313.9    | 310.1    |
| 50°   | 325.4    | 325.4    | 333.0    | 317.7    | 302.4    | 290.9    | 294.8    | 279.5    | 283.3    | 279.5    |
| 52.5° | 298.6    | 298.6    | 298.6    | 290.9    | 279.5    | 271.8    | 264.1    | 256.5    | 252.7    | 248.8    |
| 55°   | 287.1    | 287.1    | 283.3    | 260.3    | 256.5    | 248.8    | 233.5    | 229.7    | 222.0    | 218.2    |
| 57.5° | 268.0    | 268.0    | 264.1    | 245.0    | 229.7    | 229.7    | 206.7    | 202.9    | 191.4    | 191.4    |
| 60°   | 237.3    | 237.3    | 233.5    | 229.7    | 210.5    | 199.1    | 183.7    | 176.1    | 164.6    | 160.8    |
| 62.5° | 225.9    | 225.9    | 218.2    | 199.1    | 195.2    | 176.1    | 160.8    | 145.5    | 137.8    | 130.2    |
| 65°   | 210.5    | 206.7    | 202.9    | 183.7    | 168.4    | 157.0    | 137.8    | 118.7    | 111.0    | 95.7     |
| 67.5° | 187.6    | 187.6    | 183.7    | 168.4    | 153.1    | 134.0    | 114.8    | 99.5     | 80.4     | 68.9     |
| 70°   | 164.6    | 160.8    | 160.8    | 145.5    | 134.0    | 118.7    | 91.9     | 76.6     | 57.4     | 45.9     |
| 72.5° | 137.8    | 137.8    | 134.0    | 122.5    | 114.8    | 103.4    | 80.4     | 61.2     | 38.3     | 30.6     |
| 75°   | 111.0    | 111.0    | 107.2    | 99.5     | 95.7     | 84.2     | 68.9     | 53.6     | 30.6     | 15.3     |
| 77.5° | 91.9     | 88.0     | 88.0     | 80.4     | 76.6     | 68.9     | 57.4     | 42.1     | 23.0     | 11.5     |
| 80°   | 68.9     | 68.9     | 72.7     | 68.9     | 61.2     | 57.4     | 49.8     | 38.3     | 19.1     | 7.7      |
| 82.5° | 49.8     | 49.8     | 53.6     | 53.6     | 53.6     | 49.8     | 49.8     | 38.3     | 19.1     | 3.8      |
| 85°   | 34.5     | 34.5     | 42.1     | 38.3     | 38.3     | 42.1     | 61.2     | 49.8     | 15.3     | 3.8      |
| 87.5° | 19.1     | 19.1     | 19.1     | 15.3     | 15.3     | 19.1     | 23.0     | 19.1     | 7.7      | 3.8      |
| 90°   | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      | 0.0      |

(END C



90°  
305908.0  
300583.1  
285913.8  
260590.8  
227443.2  
189782.3  
152691.8  
119348.9  
91974.1  
73082.4  
55940.2  
30873.7  
19121.4  
12307.4  
7147.1  
3801.3  
2044.2  
1248.0  
907.3  
719.7  
627.8  
558.9  
478.5  
409.6  
348.4  
310.1  
279.5  
248.8  
214.4  
191.4  
153.1  
126.3  
91.9  
68.9  
45.9  
26.8  
15.3  
7.7  
3.8  
3.8  
3.8  
3.8  
0.0

OF REPORT)