

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: P636209

Luminaire Tested: **IFLD-L-SA7D-935-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636209  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-935-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30995.6 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

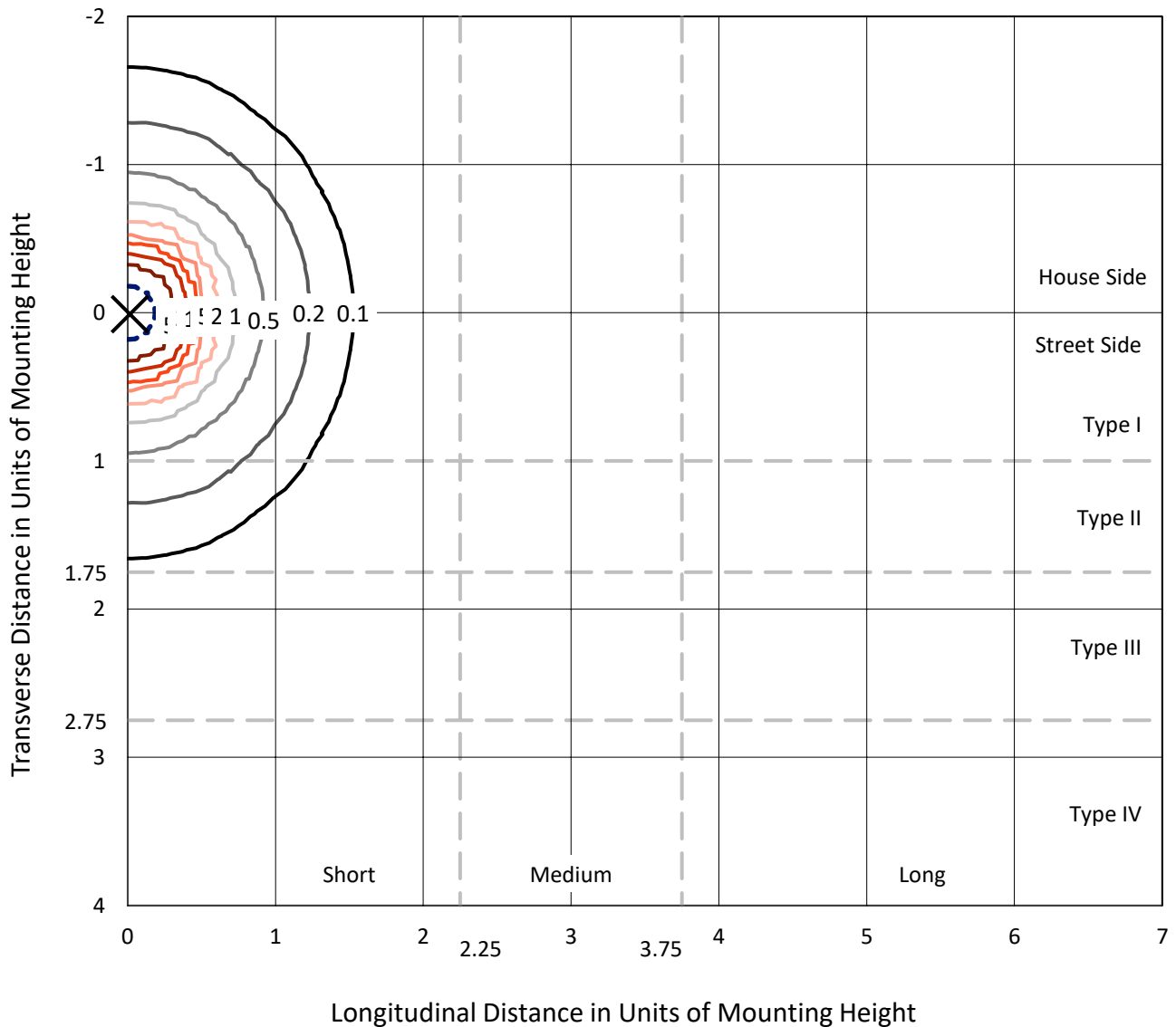
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P636209  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-33-VI

### Iso-Footcandle Lines of Horizontal Illumination

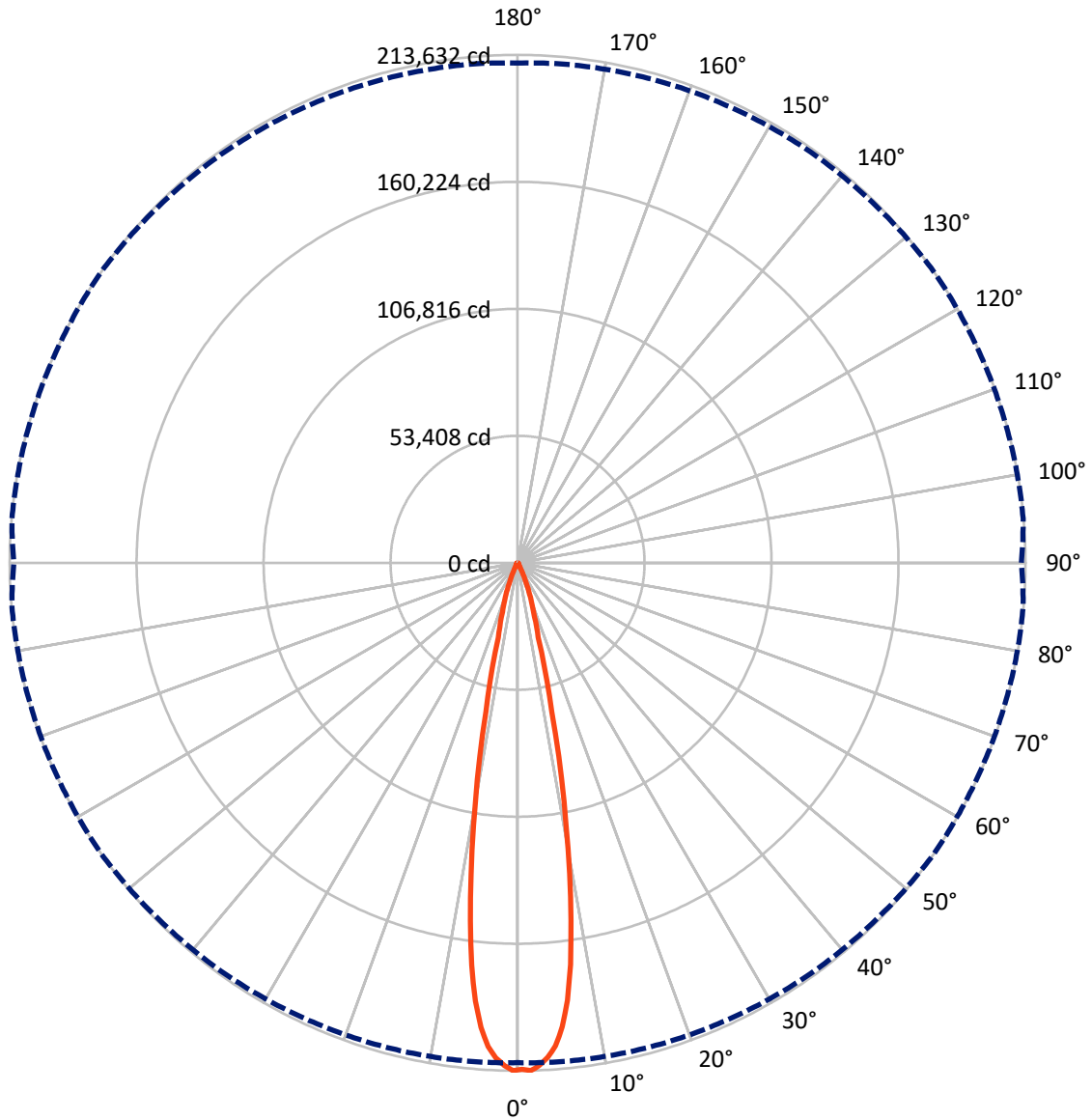
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 532.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P636209  
CATALOG NUMBER: IFLD-L-SA7D-935-U-33-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 1-Deg Vertical

REPORT NUMBER: P636209  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-33-VI

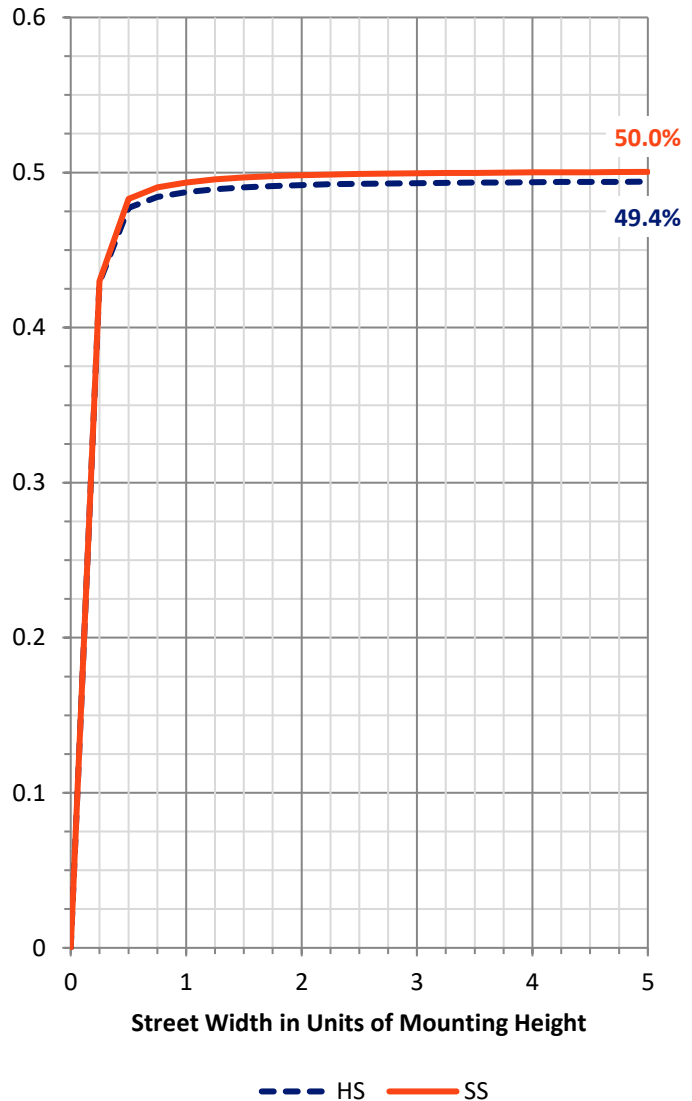
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15497.8  | 0.0    | 15497.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15497.8  | 0.0    | 15497.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30995.6  | 0.0    | 30995.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 15748.1 | 50.8      |
| 10°-20°   | 11160.9 | 36.0      |
| 20°-30°   | 2615.2  | 8.4       |
| 30°-40°   | 546.6   | 1.8       |
| 40°-50°   | 352.6   | 1.1       |
| 50°-60°   | 261.2   | 0.8       |
| 60°-70°   | 177.5   | 0.6       |
| 70°-80°   | 94.8    | 0.3       |
| 80°-90°   | 38.8    | 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°    | 30995.6 | 100.0     |
| 0°-180°   | 30995.6 | 100.0     |

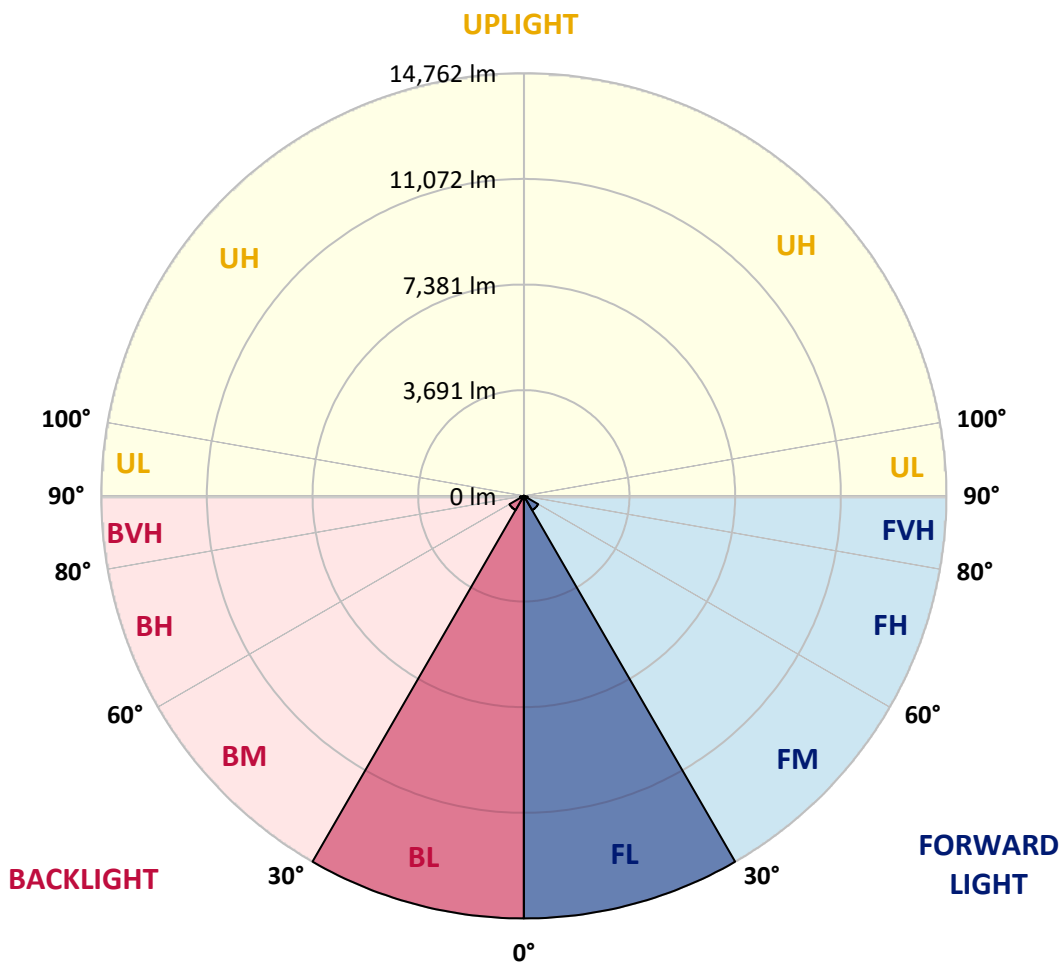


REPORT NUMBER: P636209  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-33-VI

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 14762.1 | 47.6      |                         |      |        |
| FM (30°-60°)   | 580.2   | 1.9       |                         |      |        |
| FH (60°-80°)   | 136.1   | 0.4       |                         |      | G0/660 |
| FVH (80°-90°)  | 19.4    | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 14762.1 | 47.6      | B5                      |      |        |
| BM (30°-60°)   | 580.2   | 1.9       | B1/1000                 |      |        |
| BH (60°-80°)   | 136.1   | 0.4       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 19.4    | 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: P636209  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-33-VI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°       | 5°       | 15°      | 25°      | 35°      | 45°      | 55°      | 65°      | 75°      | 85°      |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0°    | 213083.6 | 213083.6 | 213083.6 | 213083.6 | 213083.6 | 213083.6 | 213083.6 | 213083.6 | 213083.6 | 213083.6 |
| 1°    | 210216.8 | 210606.0 | 211082.9 | 211515.9 | 212168.2 | 212699.9 | 213631.8 | 213434.5 | 213407.1 | 213445.4 |
| 2°    | 206144.0 | 206631.9 | 207366.4 | 207799.4 | 209482.3 | 210173.0 | 211581.7 | 211998.3 | 211663.9 | 212042.2 |
| 3°    | 200043.1 | 200443.2 | 201594.4 | 202444.0 | 204625.6 | 206489.4 | 208375.0 | 208999.9 | 208610.7 | 208786.1 |
| 4°    | 192780.0 | 193191.2 | 194583.5 | 196315.6 | 199467.5 | 201534.1 | 203792.4 | 204351.6 | 203079.8 | 203167.6 |
| 5°    | 184135.7 | 184327.5 | 186032.3 | 187611.0 | 191382.3 | 193887.3 | 196030.6 | 196206.0 | 195043.9 | 194599.9 |
| 6°    | 174411.4 | 174066.1 | 175633.8 | 176302.6 | 180989.3 | 183543.7 | 185111.4 | 184908.6 | 184026.0 | 183647.8 |
| 7°    | 162856.4 | 162384.9 | 163651.2 | 163289.4 | 167438.9 | 168897.0 | 170404.4 | 169713.8 | 169012.1 | 169883.7 |
| 8°    | 149486.9 | 149223.8 | 148407.0 | 149887.0 | 150709.3 | 152013.9 | 152008.4 | 151608.3 | 151586.3 | 153038.9 |
| 9°    | 130049.4 | 132477.7 | 131759.6 | 133310.9 | 133102.6 | 133042.3 | 132642.1 | 132384.5 | 131288.2 | 132960.1 |
| 10°   | 108704.3 | 110293.9 | 111505.4 | 113818.6 | 113369.1 | 114004.9 | 111779.4 | 112157.7 | 111428.6 | 112810.0 |
| 12.5° | 56267.9  | 58054.9  | 59101.9  | 60866.9  | 62807.4  | 64791.7  | 64150.4  | 63487.1  | 62495.0  | 63711.9  |
| 15°   | 27698.2  | 28405.3  | 28739.7  | 30532.1  | 31913.5  | 32412.3  | 32489.0  | 31902.5  | 31650.4  | 31913.5  |
| 17.5° | 16998.2  | 17244.9  | 18215.1  | 20276.2  | 21471.2  | 21767.2  | 21575.3  | 20934.0  | 20215.9  | 19914.4  |
| 20°   | 12306.0  | 12377.3  | 12744.6  | 13144.7  | 14739.8  | 15573.0  | 15266.1  | 14635.7  | 13972.4  | 13660.0  |
| 22.5° | 8035.9   | 8107.2   | 8227.8   | 8447.0   | 8874.6   | 9905.1   | 9570.8   | 9143.2   | 8693.7   | 8600.5   |
| 25°   | 4549.7   | 4549.7   | 4675.7   | 4900.5   | 5218.4   | 5295.2   | 5360.9   | 4906.0   | 4697.7   | 4604.5   |
| 27.5° | 2537.9   | 2554.4   | 2581.8   | 2669.5   | 2828.5   | 2812.0   | 2740.8   | 2620.2   | 2477.7   | 2329.7   |
| 30°   | 1403.3   | 1419.7   | 1436.2   | 1458.1   | 1485.5   | 1436.2   | 1392.3   | 1370.4   | 1310.1   | 1293.6   |
| 32.5° | 1052.5   | 1052.5   | 1063.4   | 1057.9   | 1030.5   | 970.2    | 942.8    | 975.7    | 970.2    | 942.8    |
| 35°   | 866.1    | 866.1    | 877.0    | 899.0    | 844.2    | 800.3    | 778.4    | 822.2    | 822.2    | 805.8    |
| 37.5° | 707.1    | 712.6    | 718.1    | 745.5    | 729.0    | 679.7    | 674.2    | 685.2    | 690.7    | 685.2    |
| 40°   | 619.4    | 613.9    | 613.9    | 619.4    | 608.5    | 597.5    | 586.5    | 581.0    | 586.5    | 581.0    |
| 42.5° | 537.2    | 531.7    | 542.7    | 531.7    | 509.8    | 515.3    | 515.3    | 498.8    | 504.3    | 493.3    |
| 45°   | 471.4    | 465.9    | 471.4    | 460.4    | 444.0    | 449.5    | 449.5    | 427.6    | 427.6    | 422.1    |
| 47.5° | 416.6    | 416.6    | 416.6    | 422.1    | 394.7    | 389.2    | 394.7    | 389.2    | 372.7    | 367.3    |
| 50°   | 361.8    | 367.3    | 372.7    | 383.7    | 356.3    | 345.3    | 345.3    | 345.3    | 334.4    | 328.9    |
| 52.5° | 334.4    | 339.9    | 339.9    | 339.9    | 323.4    | 312.4    | 312.4    | 307.0    | 301.5    | 296.0    |
| 55°   | 323.4    | 323.4    | 323.4    | 301.5    | 296.0    | 290.5    | 274.1    | 268.6    | 263.1    | 263.1    |
| 57.5° | 307.0    | 307.0    | 301.5    | 285.0    | 268.6    | 268.6    | 246.7    | 241.2    | 235.7    | 235.7    |
| 60°   | 274.1    | 274.1    | 274.1    | 268.6    | 246.7    | 241.2    | 219.3    | 208.3    | 202.8    | 202.8    |
| 62.5° | 252.2    | 252.2    | 252.2    | 230.2    | 224.7    | 208.3    | 191.9    | 175.4    | 169.9    | 159.0    |
| 65°   | 230.2    | 230.2    | 230.2    | 208.3    | 197.3    | 180.9    | 159.0    | 142.5    | 131.6    | 115.1    |
| 67.5° | 213.8    | 213.8    | 208.3    | 191.9    | 175.4    | 153.5    | 131.6    | 115.1    | 93.2     | 82.2     |
| 70°   | 186.4    | 186.4    | 180.9    | 169.9    | 153.5    | 137.0    | 109.6    | 87.7     | 71.3     | 54.8     |
| 72.5° | 159.0    | 159.0    | 153.5    | 142.5    | 131.6    | 115.1    | 93.2     | 76.7     | 49.3     | 38.4     |
| 75°   | 131.6    | 131.6    | 126.1    | 115.1    | 109.6    | 98.7     | 82.2     | 60.3     | 38.4     | 16.4     |
| 77.5° | 109.6    | 109.6    | 104.1    | 98.7     | 93.2     | 82.2     | 71.3     | 49.3     | 27.4     | 11.0     |
| 80°   | 82.2     | 87.7     | 87.7     | 87.7     | 76.7     | 71.3     | 65.8     | 49.3     | 21.9     | 5.5      |
| 82.5° | 60.3     | 65.8     | 65.8     | 65.8     | 60.3     | 54.8     | 60.3     | 43.9     | 21.9     | 5.5      |
| 85°   | 43.9     | 43.9     | 49.3     | 49.3     | 49.3     | 49.3     | 65.8     | 49.3     | 16.4     | 5.5      |
| 87.5° | 21.9     | 21.9     | 21.9     | 21.9     | 21.9     | 27.4     | 32.9     | 27.4     | 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°  
213083.6  
*211916.1*  
210606.0  
207470.6  
201862.9  
193673.5  
182798.2  
169615.1  
149010.0  
129841.1  
109268.9  
60417.5  
30685.6  
19492.3  
13418.8  
8408.7  
4527.7  
2335.1  
1293.6  
926.4  
800.3  
685.2  
586.5  
498.8  
422.1  
367.3  
323.4  
290.5  
257.6  
235.7  
197.3  
148.0  
115.1  
76.7  
54.8  
32.9  
16.4  
5.5  
5.5  
5.5  
5.5  
0.0  
0.0

OF REPORT)