

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: P636290

Luminaire Tested: **IFLD-M-SA4C-927-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636290
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-927-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16828.3 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

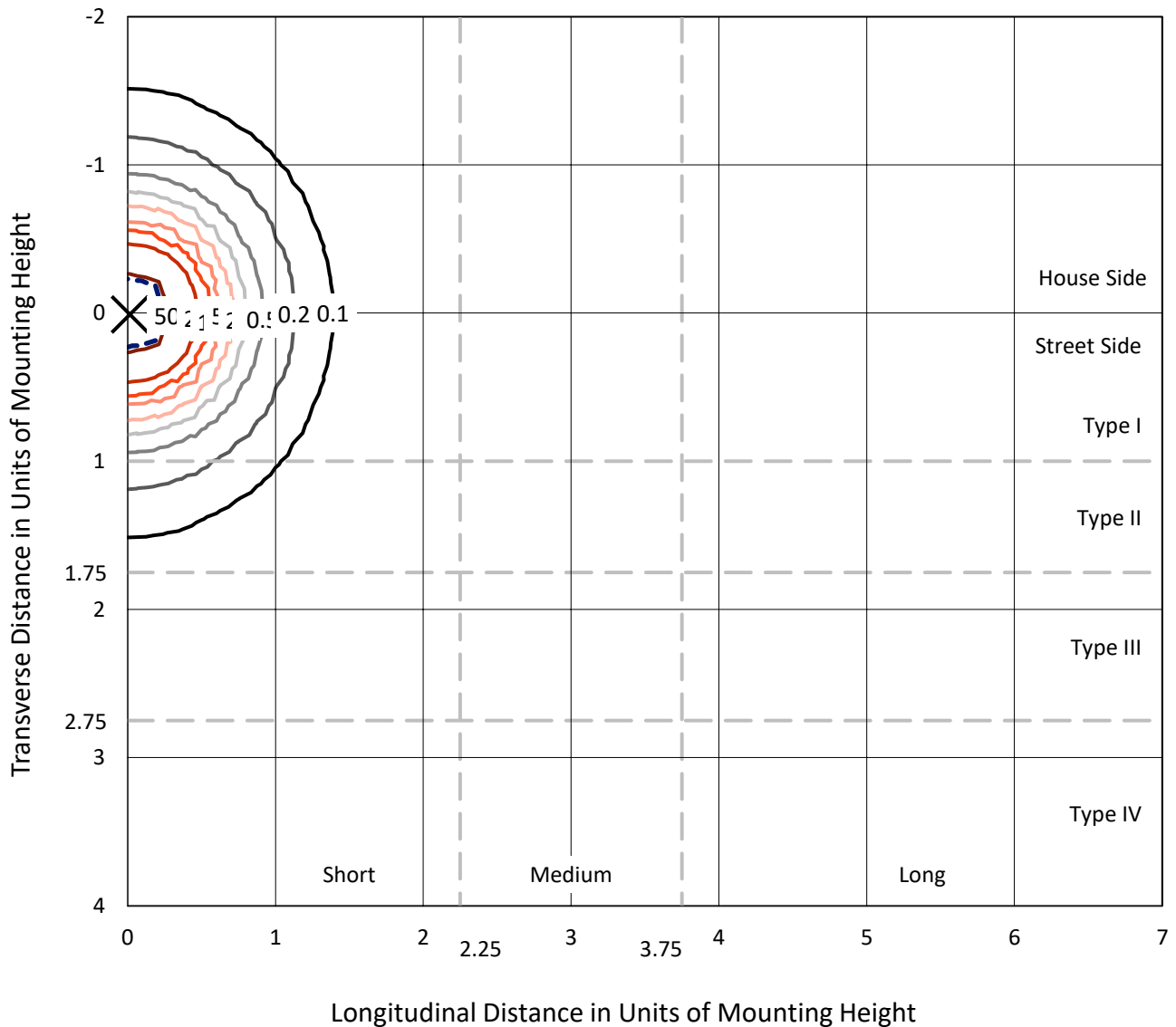
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636290
 CATALOG NUMBER: IFLD-M-SA4C-927-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

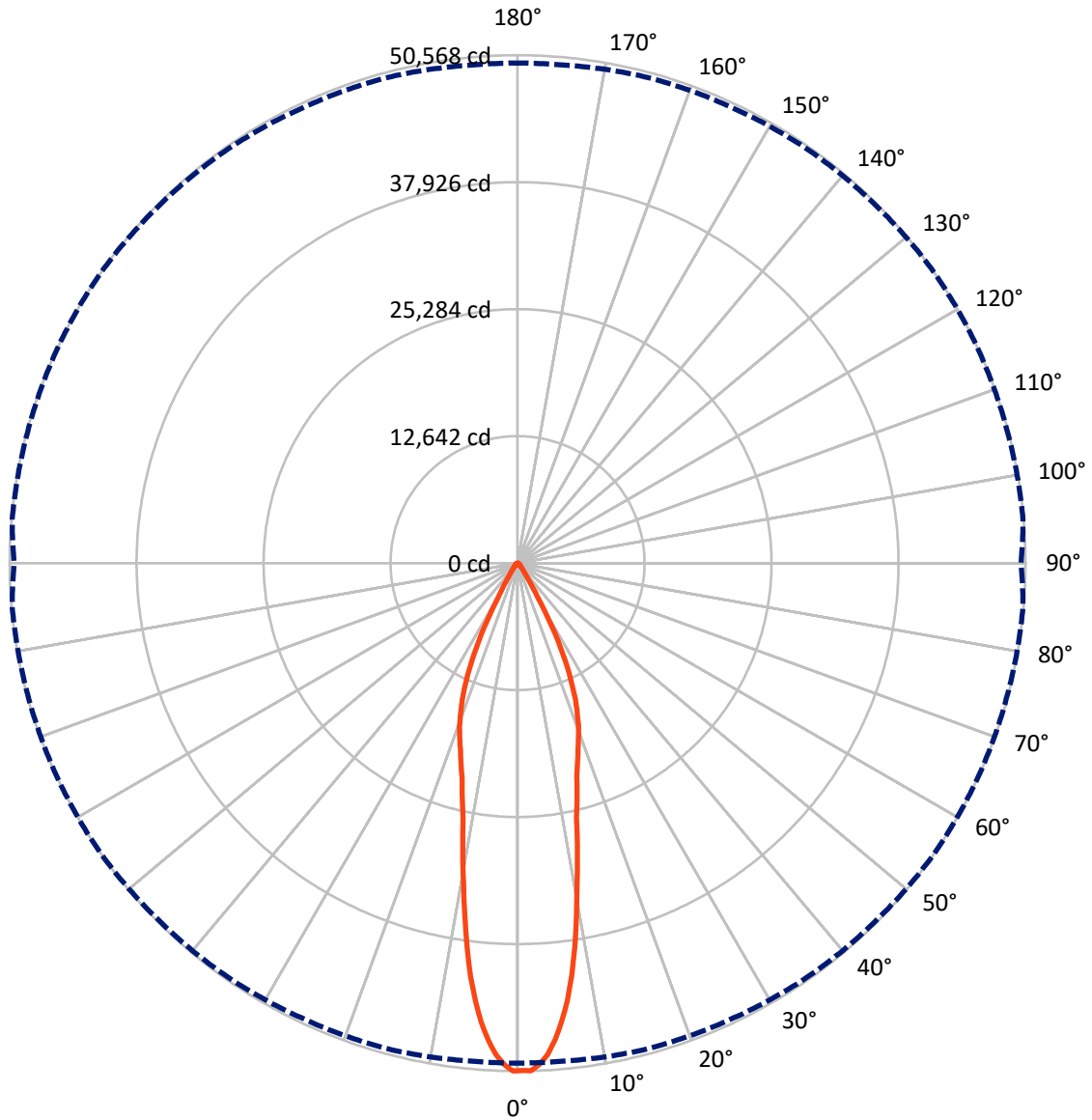
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 126.3 fc
 Type V - Short - N/A

REPORT NUMBER: P636290
CATALOG NUMBER: IFLD-M-SA4C-927-U-44-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636290

CATALOG NUMBER: IFLD-M-SA4C-927-U-44-VI

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8414.1 | 0.0 | 8414.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8414.1 | 0.0 | 8414.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16828.3 | 0.0 | 16828.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 3843.1 | 22.8 |
| 10°-20° | 6276.8 | 37.3 |
| 20°-30° | 4904.9 | 29.1 |
| 30°-40° | 1069.1 | 6.4 |
| 40°-50° | 316.5 | 1.9 |
| 50°-60° | 198.0 | 1.2 |
| 60°-70° | 138.5 | 0.8 |
| 70°-80° | 59.4 | 0.4 |
| 80°-90° | 22.0 | 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° | 16828.3 | 100.0 |
| 0°-180° | 16828.3 | 100.0 |



REPORT NUMBER: P636290

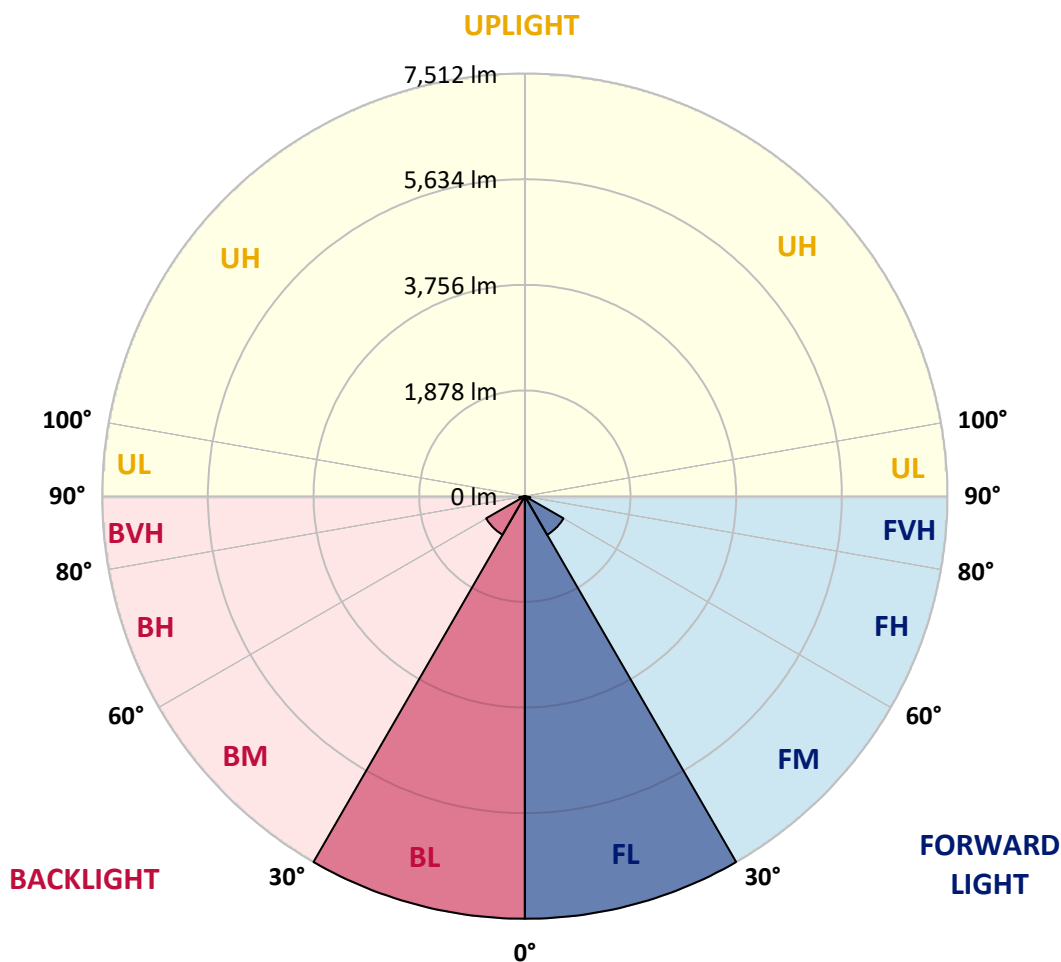
CATALOG NUMBER: IFLD-M-SA4C-927-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 7512.4 | 44.6 | | | |
| FM (30°-60°) | 791.8 | 4.7 | | | |
| FH (60°-80°) | 98.9 | 0.6 | | | G0/660 |
| FVH (80°-90°) | 11.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 7512.4 | 44.6 | B5 | | |
| BM (30°-60°) | 791.8 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 98.9 | 0.6 | B0/110 | | G0/660 |
| BVH (80°-90°) | 11.0 | 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: P636290
 CATALOG NUMBER: IFLD-M-SA4C-927-U-44-VI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 50510.2 | 50510.2 | 50510.2 | 50510.2 | 50510.2 | 50510.2 | 50510.2 | 50510.2 | 50510.2 | 50510.2 |
| 1° | 49779.1 | 49785.2 | 50056.3 | 50117.2 | 50303.1 | 50397.5 | 50568.1 | 50549.8 | 50498.0 | 50504.1 |
| 2° | 48862.1 | 48822.5 | 49075.4 | 49355.6 | 49578.0 | 49760.8 | 49964.9 | 50007.6 | 49958.8 | 50004.5 |
| 3° | 47354.1 | 47296.2 | 47649.6 | 48000.0 | 48386.9 | 48700.6 | 49008.3 | 49020.5 | 48962.6 | 48959.6 |
| 4° | 45370.9 | 45264.2 | 45684.6 | 46309.2 | 46796.6 | 47214.0 | 47597.8 | 47591.7 | 47512.5 | 47576.5 |
| 5° | 42973.3 | 42839.3 | 43384.6 | 44207.1 | 44929.1 | 45431.8 | 45855.3 | 45754.7 | 45571.9 | 45581.1 |
| 6° | 40030.4 | 40161.4 | 40828.6 | 41983.2 | 42836.2 | 43253.6 | 43774.5 | 43585.6 | 43268.8 | 43235.3 |
| 7° | 37264.2 | 37559.8 | 38092.9 | 39485.1 | 40499.6 | 40938.3 | 41380.0 | 40999.2 | 40569.7 | 40499.6 |
| 8° | 34351.8 | 34845.4 | 35582.6 | 36865.2 | 37946.7 | 38388.4 | 38555.9 | 38147.7 | 37687.7 | 37669.4 |
| 9° | 31990.8 | 32329.0 | 32962.7 | 34092.9 | 35192.7 | 35488.2 | 35524.7 | 35168.3 | 34708.3 | 34738.7 |
| 10° | 29843.1 | 29907.1 | 30455.4 | 31427.2 | 32307.7 | 32517.9 | 32508.7 | 32249.8 | 31872.0 | 31972.6 |
| 12.5° | 25035.8 | 25209.4 | 25367.8 | 25678.6 | 25974.1 | 26111.2 | 26059.4 | 25952.8 | 25745.6 | 25754.7 |
| 15° | 21773.0 | 21770.0 | 21788.3 | 21931.4 | 22019.8 | 22035.0 | 22035.0 | 21901.0 | 21812.6 | 21943.6 |
| 17.5° | 18894.1 | 19052.5 | 19335.9 | 19451.6 | 19567.4 | 19524.7 | 19445.5 | 19384.6 | 19326.7 | 19439.4 |
| 20° | 16655.0 | 16725.0 | 16728.1 | 16804.2 | 17389.2 | 17419.6 | 17319.1 | 17145.5 | 16999.2 | 16971.8 |
| 22.5° | 14135.6 | 14242.2 | 14287.9 | 14354.9 | 14415.8 | 14860.6 | 14741.8 | 14461.5 | 14287.9 | 14236.1 |
| 25° | 10610.8 | 10574.2 | 10872.8 | 11421.2 | 11509.5 | 11564.3 | 11533.9 | 11387.7 | 11274.9 | 11296.3 |
| 27.5° | 7332.8 | 7396.8 | 7384.6 | 7390.7 | 7972.6 | 7969.5 | 7960.4 | 7832.4 | 7798.9 | 7750.2 |
| 30° | 4100.5 | 4070.1 | 4085.3 | 4045.7 | 3963.4 | 4064.0 | 3902.5 | 4039.6 | 3905.6 | 3948.2 |
| 32.5° | 2425.0 | 2403.7 | 2382.3 | 2391.5 | 2330.5 | 2181.3 | 2117.3 | 2211.7 | 2181.3 | 2169.1 |
| 35° | 1547.6 | 1556.7 | 1584.2 | 1581.1 | 1526.3 | 1441.0 | 1349.6 | 1434.9 | 1422.7 | 1386.1 |
| 37.5° | 987.1 | 987.1 | 996.2 | 1075.4 | 1029.7 | 956.6 | 892.6 | 929.2 | 926.1 | 920.0 |
| 40° | 700.7 | 700.7 | 712.9 | 734.2 | 709.8 | 673.3 | 636.7 | 636.7 | 642.8 | 624.5 |
| 42.5° | 520.9 | 520.9 | 533.1 | 545.3 | 514.9 | 502.7 | 484.4 | 472.2 | 487.4 | 472.2 |
| 45° | 408.2 | 405.2 | 408.2 | 402.1 | 383.9 | 383.9 | 368.6 | 350.3 | 368.6 | 359.5 |
| 47.5° | 335.1 | 332.1 | 329.0 | 316.8 | 298.6 | 301.6 | 295.5 | 280.3 | 289.4 | 286.4 |
| 50° | 292.5 | 286.4 | 289.4 | 277.2 | 262.0 | 258.9 | 258.9 | 243.7 | 246.8 | 246.8 |
| 52.5° | 255.9 | 255.9 | 252.9 | 246.8 | 240.7 | 228.5 | 231.5 | 216.3 | 216.3 | 216.3 |
| 55° | 240.7 | 240.7 | 234.6 | 222.4 | 225.4 | 216.3 | 207.2 | 198.0 | 195.0 | 195.0 |
| 57.5° | 237.6 | 237.6 | 234.6 | 222.4 | 213.3 | 210.2 | 198.0 | 185.8 | 176.7 | 179.7 |
| 60° | 231.5 | 231.5 | 225.4 | 222.4 | 207.2 | 201.1 | 182.8 | 173.6 | 161.5 | 161.5 |
| 62.5° | 222.4 | 219.3 | 207.2 | 188.9 | 188.9 | 173.6 | 161.5 | 143.2 | 134.0 | 131.0 |
| 65° | 188.9 | 185.8 | 176.7 | 161.5 | 152.3 | 143.2 | 124.9 | 106.6 | 100.5 | 91.4 |
| 67.5° | 155.4 | 155.4 | 149.3 | 134.0 | 128.0 | 115.8 | 94.4 | 82.3 | 67.0 | 60.9 |
| 70° | 128.0 | 128.0 | 121.9 | 112.7 | 106.6 | 91.4 | 73.1 | 60.9 | 45.7 | 39.6 |
| 72.5° | 103.6 | 103.6 | 97.5 | 91.4 | 85.3 | 76.2 | 60.9 | 45.7 | 30.5 | 24.4 |
| 75° | 82.3 | 82.3 | 79.2 | 73.1 | 67.0 | 60.9 | 48.7 | 36.6 | 21.3 | 12.2 |
| 77.5° | 67.0 | 67.0 | 64.0 | 60.9 | 54.8 | 48.7 | 39.6 | 30.5 | 15.2 | 6.1 |
| 80° | 51.8 | 51.8 | 51.8 | 51.8 | 45.7 | 39.6 | 33.5 | 24.4 | 12.2 | 3.0 |
| 82.5° | 36.6 | 36.6 | 39.6 | 45.7 | 36.6 | 30.5 | 30.5 | 24.4 | 9.1 | 3.0 |
| 85° | 24.4 | 27.4 | 30.5 | 27.4 | 24.4 | 24.4 | 42.7 | 39.6 | 9.1 | 3.0 |
| 87.5° | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 9.1 | 12.2 | 9.1 | 6.1 | 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°
50510.2
50129.4
49645.0
48694.5
47274.9
45136.3
42790.5
40167.5
37002.3
34284.8
31619.2
25453.1
21639.0
19180.5
16795.1
14050.3
11223.1
7573.5
4000.0
2138.6
1346.5
907.8
618.4
469.2
359.5
286.4
249.8
216.3
191.9
179.7
152.3
124.9
88.3
57.9
36.6
21.3
9.1
6.1
3.0
3.0
3.0
0.0
0.0

OF REPORT)