

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: P636055

Luminaire Tested: **IFLD-S-SA6E-935-U-22-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636055
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-935-U-22-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33385.2 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

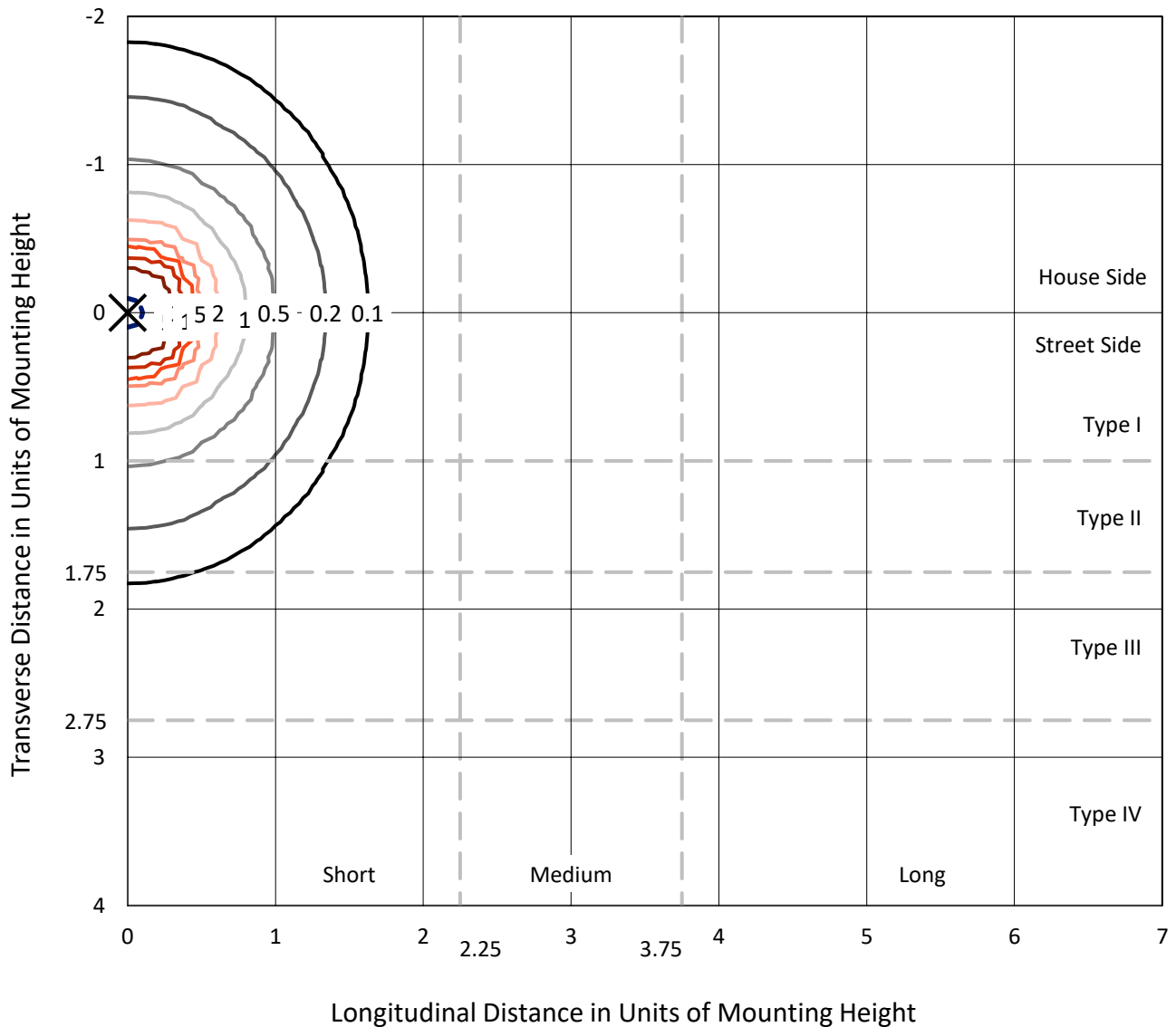
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636055
 CATALOG NUMBER: IFLD-S-SA6E-935-U-22-VI

Iso-Footcandle Lines of Horizontal Illumination

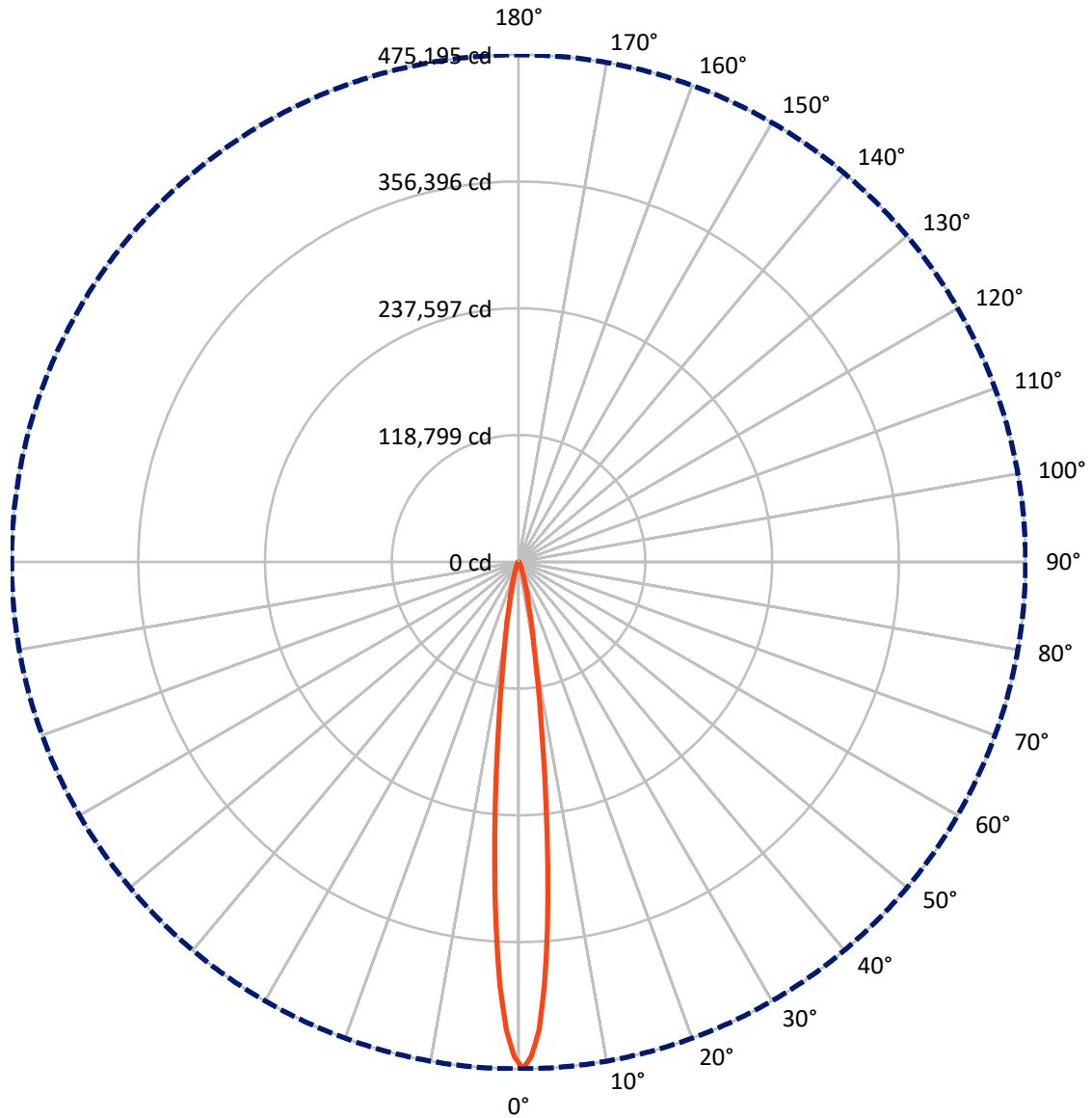
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1188 fc
 Type V - Short - N/A

REPORT NUMBER: P636055
CATALOG NUMBER: IFLD-S-SA6E-935-U-22-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636055
 CATALOG NUMBER: IFLD-S-SA6E-935-U-22-VI

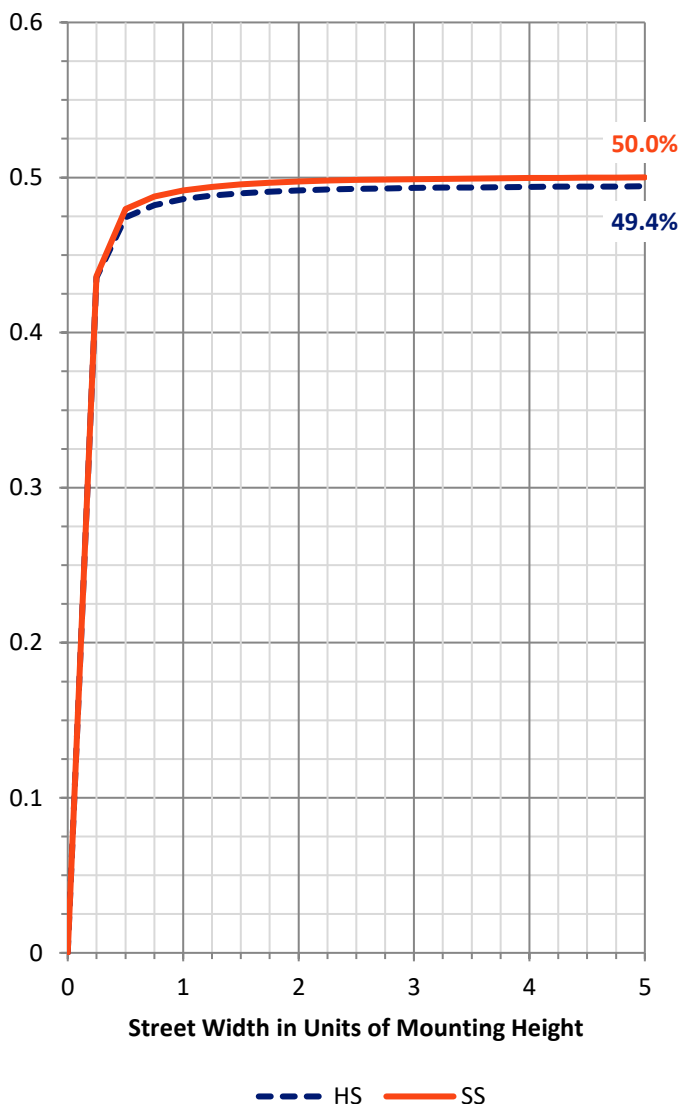
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16692.6 | 0.0 | 16692.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16692.6 | 0.0 | 16692.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33385.2 | 0.0 | 33385.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 20351.0 | 61.0 |
| 10°-20° | 9117.4 | 27.3 |
| 20°-30° | 2036.1 | 6.1 |
| 30°-40° | 664.6 | 2.0 |
| 40°-50° | 458.3 | 1.4 |
| 50°-60° | 346.3 | 1.0 |
| 60°-70° | 237.0 | 0.7 |
| 70°-80° | 124.8 | 0.4 |
| 80°-90° | 49.8 | 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° | 33385.2 | 100.0 |
| 0°-180° | 33385.2 | 100.0 |

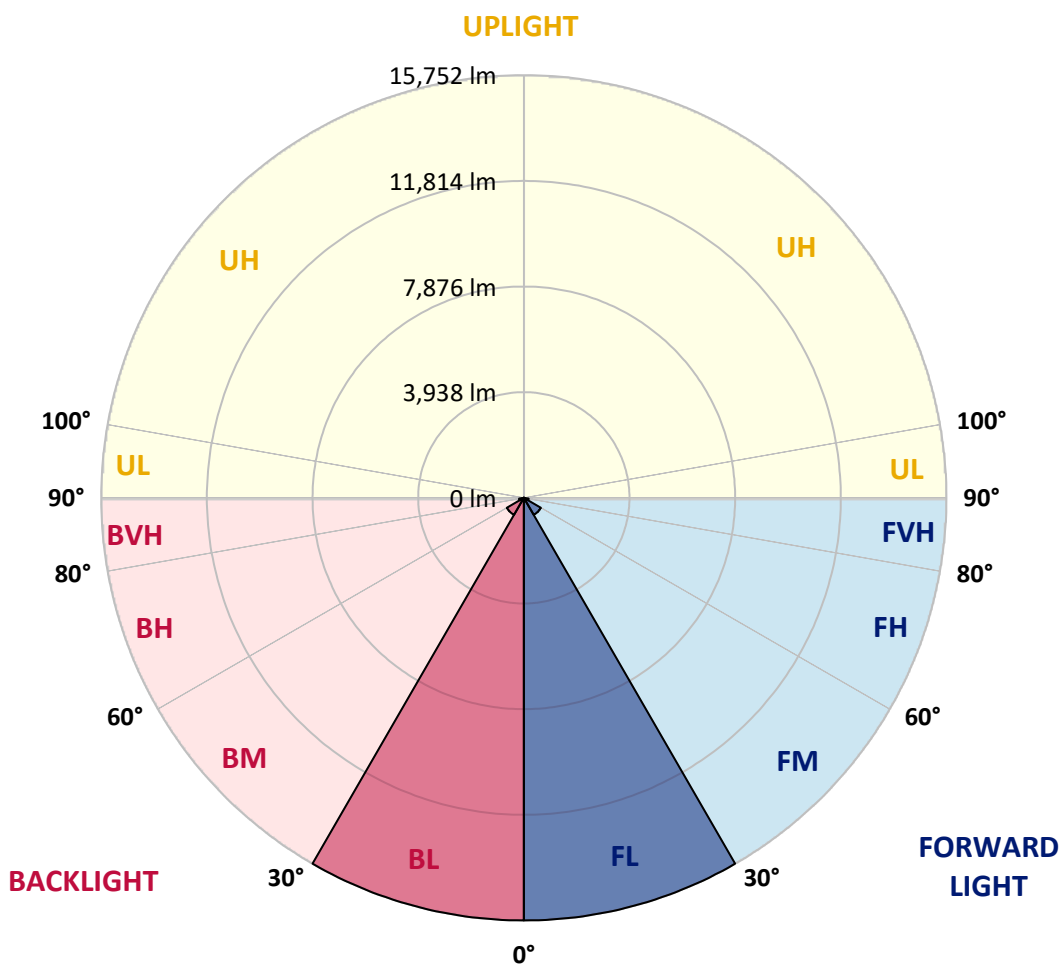


REPORT NUMBER: P636055
 CATALOG NUMBER: IFLD-S-SA6E-935-U-22-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 15752.2 | 47.2 | | | |
| FM (30°-60°) | 734.6 | 2.2 | | | |
| FH (60°-80°) | 180.9 | 0.5 | | | G0/660 |
| FVH (80°-90°) | 24.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 15752.2 | 47.2 | B5 | | |
| BM (30°-60°) | 734.6 | 2.2 | B1/1000 | | |
| BH (60°-80°) | 180.9 | 0.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 24.9 | 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: P636055
 CATALOG NUMBER: IFLD-S-SA6E-935-U-22-VI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 475194.6 | 475194.6 | 475194.6 | 475194.6 | 475194.6 | 475194.6 | 475194.6 | 475194.6 | 475194.6 | 475194.6 |
| 1° | 463396.7 | 464027.0 | 463325.3 | 466869.5 | 468332.3 | 469093.5 | 469182.7 | 471180.7 | 469640.6 | 470068.7 |
| 2° | 438974.2 | 440377.6 | 438028.7 | 440300.3 | 444843.5 | 446562.0 | 443761.2 | 447222.1 | 445985.2 | 446704.7 |
| 3° | 397937.1 | 399655.6 | 396408.8 | 399185.9 | 405031.3 | 406339.5 | 401748.8 | 406666.6 | 406541.7 | 407576.4 |
| 4° | 345042.5 | 347831.5 | 343193.2 | 346481.6 | 349068.3 | 353623.4 | 349175.4 | 354771.1 | 354664.0 | 356459.9 |
| 5° | 285000.2 | 288015.1 | 283983.4 | 287396.7 | 289846.7 | 291541.4 | 289912.1 | 296102.4 | 296494.9 | 298350.2 |
| 6° | 226248.3 | 229061.0 | 224559.5 | 227818.2 | 231701.3 | 232397.1 | 231974.9 | 237303.0 | 238486.3 | 237041.3 |
| 7° | 174120.9 | 174822.6 | 174114.9 | 177076.3 | 180192.3 | 180305.3 | 180852.4 | 185538.3 | 186578.9 | 186079.4 |
| 8° | 133351.3 | 130140.2 | 132899.4 | 134469.3 | 135432.6 | 139856.9 | 140183.9 | 142544.7 | 144459.5 | 144596.3 |
| 9° | 101507.6 | 98534.3 | 101727.6 | 102352.0 | 104564.1 | 108494.8 | 108001.2 | 110582.0 | 111783.2 | 111705.9 |
| 10° | 77388.4 | 75878.0 | 77477.6 | 78167.4 | 79987.0 | 83317.1 | 83893.9 | 85077.3 | 85969.3 | 86552.0 |
| 12.5° | 41994.5 | 42345.4 | 43273.0 | 43998.5 | 46448.5 | 47334.5 | 47691.3 | 47792.4 | 47786.5 | 47881.6 |
| 15° | 26087.5 | 26372.9 | 27021.1 | 28335.3 | 29827.9 | 30928.0 | 31082.6 | 30511.7 | 30018.2 | 29940.9 |
| 17.5° | 16269.8 | 16156.8 | 17679.1 | 19118.2 | 20914.0 | 21484.9 | 20890.2 | 20236.1 | 19564.1 | 19177.6 |
| 20° | 9764.2 | 9841.5 | 10358.9 | 11001.1 | 12452.1 | 13439.2 | 12820.8 | 12154.7 | 11459.0 | 11001.1 |
| 22.5° | 5548.1 | 5631.4 | 5857.4 | 6190.4 | 6743.4 | 7641.3 | 7248.8 | 6576.9 | 6083.3 | 5881.1 |
| 25° | 3276.5 | 3276.5 | 3413.3 | 3562.0 | 3793.9 | 4002.0 | 3918.8 | 3562.0 | 3270.6 | 3187.3 |
| 27.5° | 2122.9 | 2105.1 | 2152.7 | 2224.0 | 2331.0 | 2342.9 | 2247.8 | 2140.8 | 1992.1 | 1938.6 |
| 30° | 1552.0 | 1558.0 | 1552.0 | 1581.8 | 1575.8 | 1534.2 | 1474.7 | 1480.7 | 1421.2 | 1415.3 |
| 32.5° | 1260.7 | 1266.6 | 1266.6 | 1260.7 | 1230.9 | 1165.5 | 1123.9 | 1165.5 | 1153.6 | 1141.7 |
| 35° | 1046.6 | 1052.5 | 1112.0 | 1106.1 | 1058.5 | 987.1 | 957.4 | 1005.0 | 1040.6 | 987.1 |
| 37.5° | 903.9 | 909.8 | 957.4 | 981.2 | 921.7 | 874.1 | 838.5 | 880.1 | 933.6 | 874.1 |
| 40° | 796.8 | 802.8 | 814.7 | 820.6 | 790.9 | 767.1 | 749.3 | 761.2 | 784.9 | 755.2 |
| 42.5° | 701.7 | 695.7 | 701.7 | 695.7 | 660.1 | 672.0 | 660.1 | 642.2 | 660.1 | 636.3 |
| 45° | 612.5 | 612.5 | 612.5 | 594.7 | 559.0 | 582.8 | 570.9 | 553.0 | 559.0 | 541.1 |
| 47.5° | 559.0 | 559.0 | 559.0 | 535.2 | 505.5 | 505.5 | 511.4 | 481.7 | 487.6 | 481.7 |
| 50° | 505.5 | 505.5 | 517.3 | 493.6 | 469.8 | 451.9 | 457.9 | 434.1 | 440.0 | 434.1 |
| 52.5° | 463.8 | 463.8 | 463.8 | 451.9 | 434.1 | 422.2 | 410.3 | 398.4 | 392.5 | 386.5 |
| 55° | 446.0 | 446.0 | 440.0 | 404.4 | 398.4 | 386.5 | 362.7 | 356.8 | 344.9 | 339.0 |
| 57.5° | 416.3 | 416.3 | 410.3 | 380.6 | 356.8 | 356.8 | 321.1 | 315.2 | 297.3 | 297.3 |
| 60° | 368.7 | 368.7 | 362.7 | 356.8 | 327.1 | 309.2 | 285.4 | 273.5 | 255.7 | 249.8 |
| 62.5° | 350.8 | 350.8 | 339.0 | 309.2 | 303.3 | 273.5 | 249.8 | 226.0 | 214.1 | 202.2 |
| 65° | 327.1 | 321.1 | 315.2 | 285.4 | 261.6 | 243.8 | 214.1 | 184.3 | 172.4 | 148.7 |
| 67.5° | 291.4 | 291.4 | 285.4 | 261.6 | 237.9 | 208.1 | 178.4 | 154.6 | 124.9 | 107.0 |
| 70° | 255.7 | 249.8 | 249.8 | 226.0 | 208.1 | 184.3 | 142.7 | 118.9 | 89.2 | 71.4 |
| 72.5° | 214.1 | 214.1 | 208.1 | 190.3 | 178.4 | 160.6 | 124.9 | 95.1 | 59.5 | 47.6 |
| 75° | 172.4 | 172.4 | 166.5 | 154.6 | 148.7 | 130.8 | 107.0 | 83.3 | 47.6 | 23.8 |
| 77.5° | 142.7 | 136.8 | 136.8 | 124.9 | 118.9 | 107.0 | 89.2 | 65.4 | 35.7 | 17.8 |
| 80° | 107.0 | 107.0 | 113.0 | 107.0 | 95.1 | 89.2 | 77.3 | 59.5 | 29.7 | 11.9 |
| 82.5° | 77.3 | 77.3 | 83.3 | 83.3 | 83.3 | 77.3 | 77.3 | 59.5 | 29.7 | 5.9 |
| 85° | 53.5 | 53.5 | 65.4 | 59.5 | 59.5 | 65.4 | 95.1 | 77.3 | 23.8 | 5.9 |
| 87.5° | 29.7 | 29.7 | 29.7 | 23.8 | 23.8 | 29.7 | 35.7 | 29.7 | 11.9 | 5.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C



90°

475194.6
466923.0
444135.8
404799.4
353308.2
294806.1
237190.0
185395.5
142871.8
113525.6
86896.9
47958.9
29703.0
19118.2
11102.2
5904.9
3175.5
1938.6
1409.3
1118.0
975.2
868.2
743.3
636.3
541.1
481.7
434.1
386.5
333.0
297.3
237.9
196.2
142.7
107.0
71.4
41.6
23.8
11.9
5.9
5.9
5.9
5.9
0.0

OF REPORT)