

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: P939983

Luminaire Tested: **GLAN-SB2D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18090 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

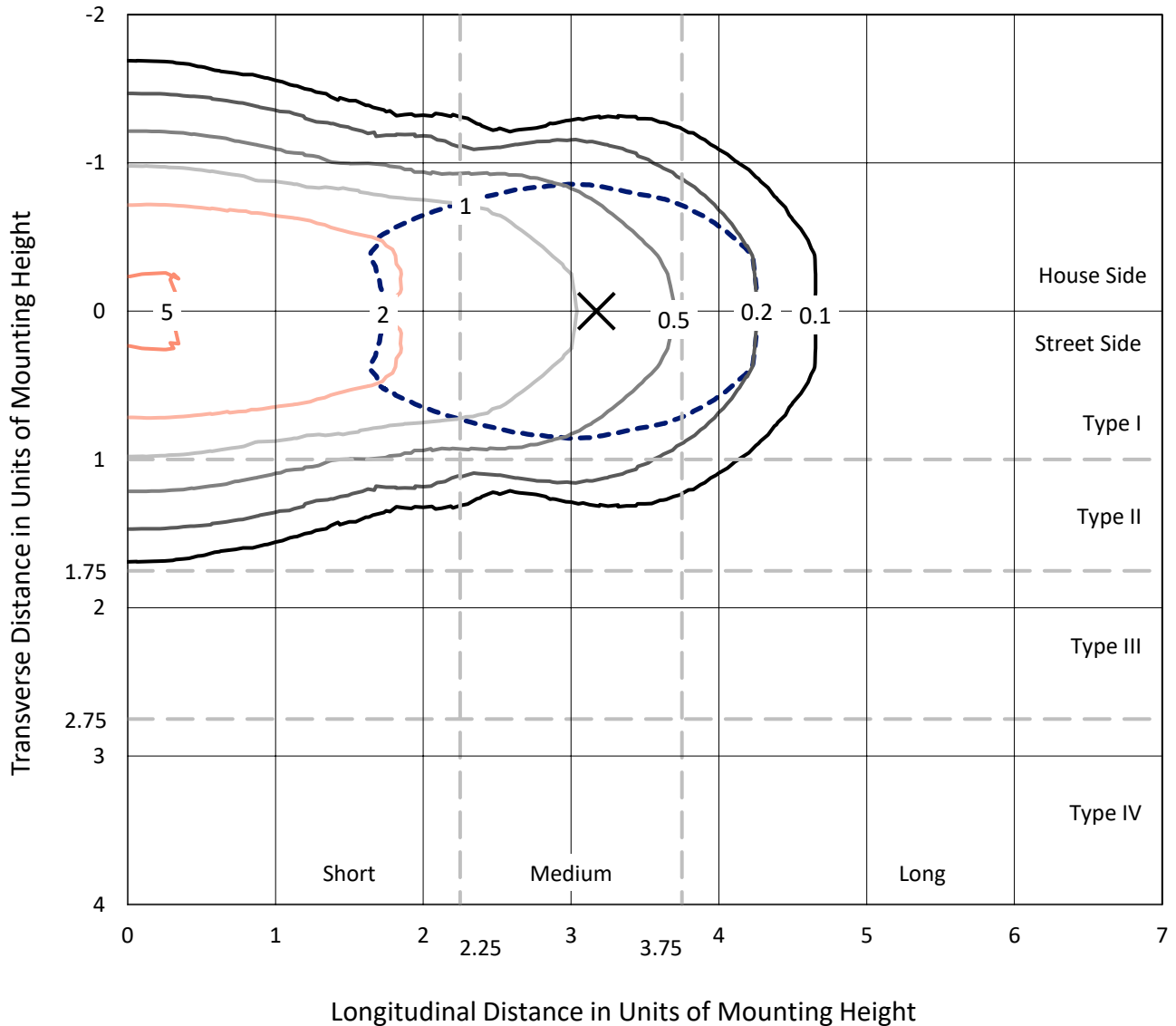
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

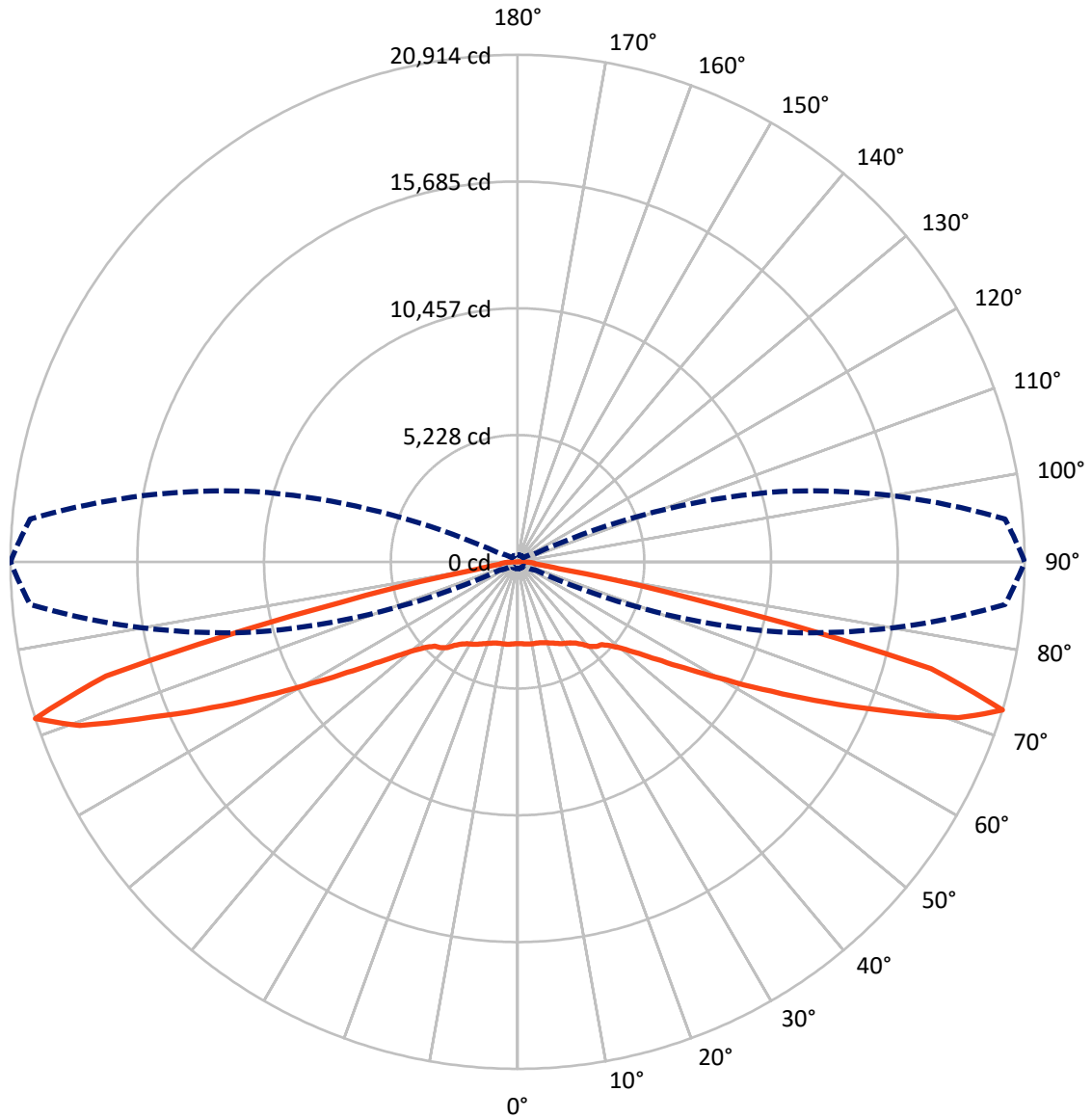
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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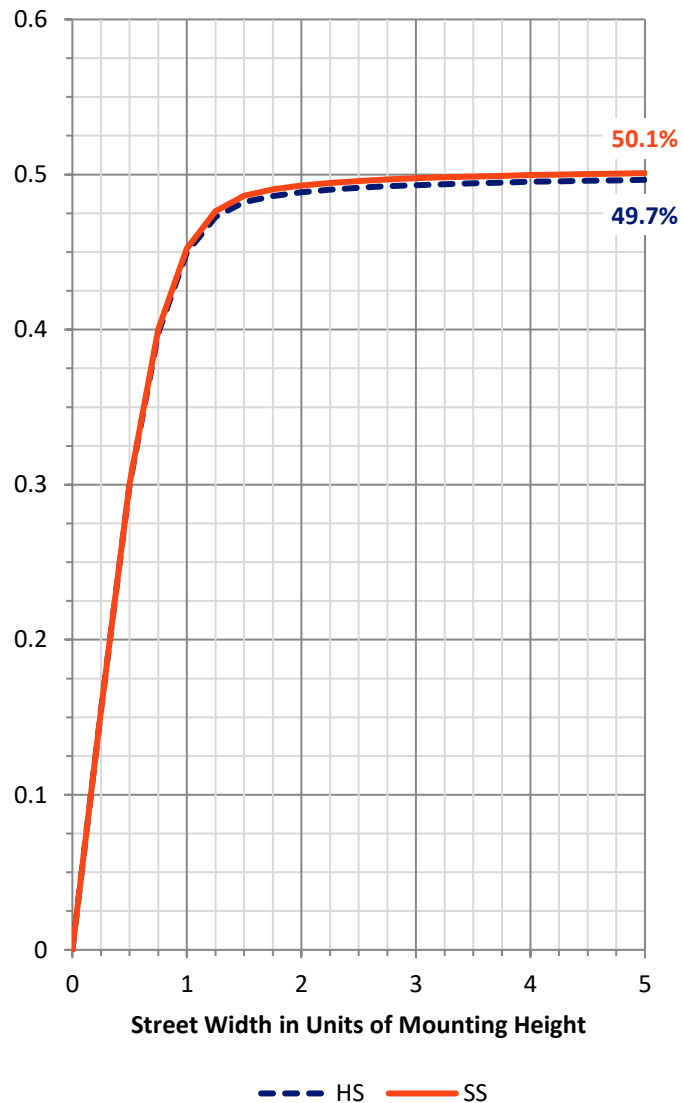
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9045.0 | 0.0 | 9045.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9045.0 | 0.0 | 9045.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18090.0 | 0.0 | 18090.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 327.8 | 1.8 |
| 10°-20° | 1002.2 | 5.5 |
| 20°-30° | 1671.0 | 9.2 |
| 30°-40° | 2298.2 | 12.7 |
| 40°-50° | 2806.7 | 15.5 |
| 50°-60° | 3246.2 | 17.9 |
| 60°-70° | 3870.6 | 21.4 |
| 70°-80° | 2701.4 | 14.9 |
| 80°-90° | 165.9 | 0.9 |
| 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° | 18090.0 | 100.0 |
| 0°-180° | 18090.0 | 100.0 |

Coefficient of Utilization

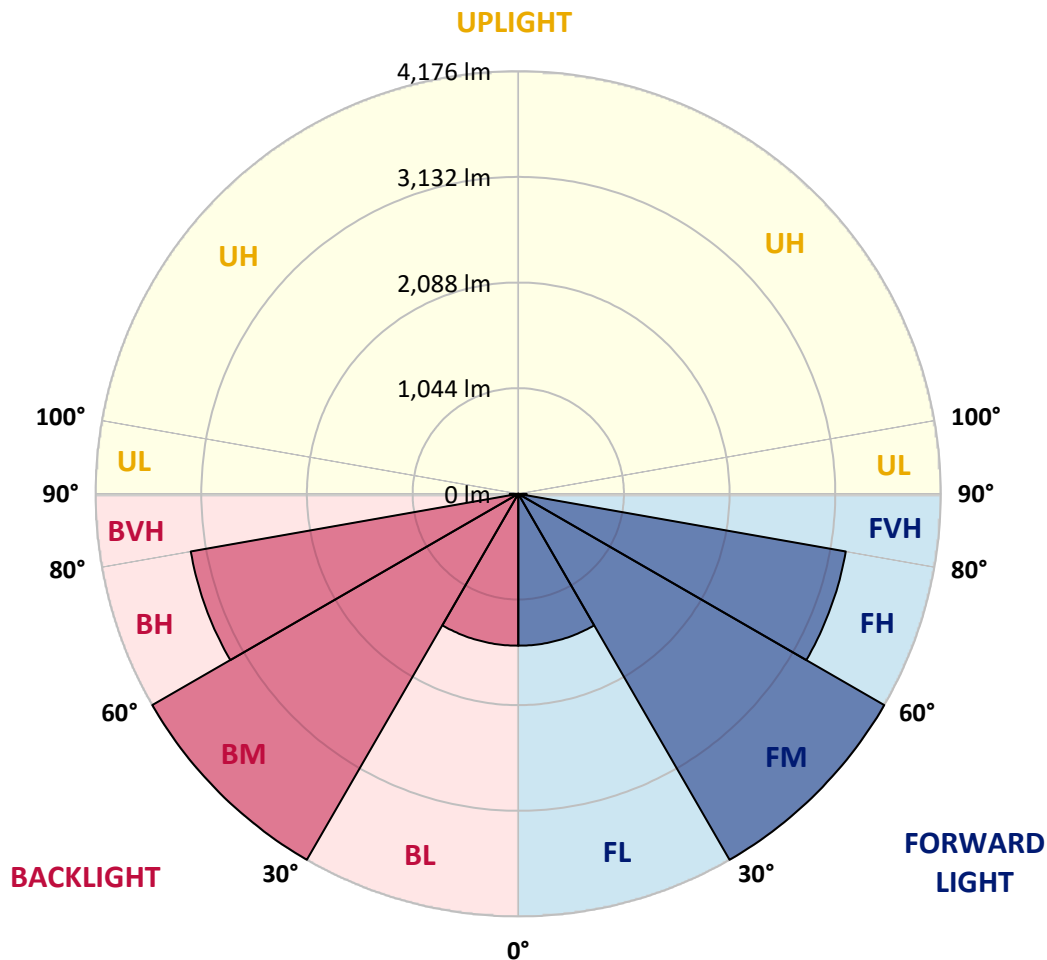


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1500.5 | 8.3 | | | |
| FM (30°-60°) | 4175.6 | 23.1 | | | |
| FH (60°-80°) | 3286.0 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 83.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1500.5 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 4175.6 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3286.0 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 83.0 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 3380.3 | 3380.3 | 3380.3 | 3380.3 | 3380.3 | 3380.3 | 3380.3 | 3380.3 | 3380.3 | 3380.3 |
| 2.5° | 3383.2 | 3387.0 | 3387.0 | 3384.2 | 3390.9 | 3385.1 | 3385.1 | 3382.2 | 3385.1 | 3382.2 |
| 5° | 3400.5 | 3405.3 | 3407.2 | 3406.3 | 3414.9 | 3410.1 | 3410.1 | 3406.3 | 3407.2 | 3404.3 |
| 7.5° | 3433.2 | 3439.9 | 3443.8 | 3448.6 | 3461.1 | 3455.3 | 3451.5 | 3439.9 | 3435.1 | 3427.4 |
| 10° | 3443.8 | 3451.5 | 3463.9 | 3488.9 | 3517.8 | 3518.8 | 3507.2 | 3478.4 | 3456.3 | 3439.0 |
| 12.5° | 3411.1 | 3421.6 | 3447.6 | 3498.6 | 3563.0 | 3588.9 | 3570.7 | 3522.6 | 3479.3 | 3448.6 |
| 15° | 3369.7 | 3381.3 | 3420.7 | 3497.6 | 3592.8 | 3653.3 | 3651.4 | 3588.0 | 3518.8 | 3470.7 |
| 17.5° | 3305.3 | 3316.9 | 3373.6 | 3481.3 | 3615.9 | 3715.8 | 3742.8 | 3677.4 | 3580.3 | 3515.9 |
| 20° | 3189.0 | 3199.6 | 3278.4 | 3429.3 | 3623.5 | 3782.2 | 3852.4 | 3794.7 | 3673.5 | 3586.0 |
| 22.5° | 3038.0 | 3054.4 | 3146.7 | 3339.9 | 3605.3 | 3851.4 | 3977.3 | 3937.9 | 3782.2 | 3661.0 |
| 25° | 2876.5 | 2893.8 | 3001.5 | 3230.3 | 3558.2 | 3901.4 | 4125.4 | 4100.4 | 3905.2 | 3754.3 |
| 27.5° | 2737.1 | 2755.4 | 2872.7 | 3121.7 | 3485.1 | 3920.6 | 4271.5 | 4284.0 | 4054.3 | 3857.2 |
| 30° | 2627.5 | 2644.8 | 2769.8 | 3034.2 | 3390.9 | 3901.4 | 4399.4 | 4485.9 | 4206.2 | 3946.6 |
| 32.5° | 2507.3 | 2529.5 | 2661.2 | 2927.5 | 3279.4 | 3855.2 | 4510.9 | 4704.2 | 4382.1 | 4042.7 |
| 35° | 2355.4 | 2375.6 | 2514.1 | 2781.4 | 3133.2 | 3781.2 | 4604.2 | 4946.4 | 4634.0 | 4188.9 |
| 37.5° | 2170.9 | 2190.1 | 2327.6 | 2598.7 | 2988.1 | 3677.4 | 4675.3 | 5219.5 | 4933.9 | 4399.4 |
| 40° | 1985.3 | 2003.6 | 2132.4 | 2394.9 | 2814.0 | 3544.7 | 4700.3 | 5486.8 | 5278.1 | 4688.8 |
| 42.5° | 1815.1 | 1831.5 | 1949.7 | 2193.9 | 2618.9 | 3375.5 | 4667.6 | 5719.4 | 5586.7 | 4890.7 |
| 45° | 1658.4 | 1672.8 | 1777.6 | 2005.5 | 2416.0 | 3169.8 | 4569.6 | 5969.4 | 5954.0 | 5034.9 |
| 47.5° | 1479.6 | 1494.0 | 1602.7 | 1822.8 | 2213.2 | 2928.4 | 4403.2 | 6215.5 | 6464.5 | 5361.8 |
| 50° | 1261.4 | 1273.9 | 1385.4 | 1612.3 | 2002.6 | 2671.8 | 4172.5 | 6408.7 | 7108.6 | 5856.9 |
| 52.5° | 1002.7 | 1016.2 | 1124.8 | 1351.7 | 1752.6 | 2395.8 | 3868.7 | 6534.7 | 7852.8 | 6579.9 |
| 55° | 746.1 | 755.7 | 849.9 | 1053.7 | 1443.1 | 2081.4 | 3488.0 | 6570.3 | 8696.9 | 7568.2 |
| 57.5° | 541.3 | 547.0 | 607.6 | 759.5 | 1094.1 | 1688.2 | 3025.5 | 6478.0 | 9701.6 | 8835.3 |
| 60° | 438.4 | 440.3 | 458.6 | 525.9 | 760.5 | 1244.1 | 2467.0 | 6160.7 | 10791.8 | 10468.8 |
| 62.5° | 398.0 | 398.0 | 402.8 | 421.1 | 514.4 | 821.0 | 1791.1 | 5503.1 | 11960.9 | 12532.9 |
| 65° | 370.1 | 370.1 | 372.1 | 380.7 | 405.7 | 523.0 | 1130.6 | 4432.1 | 12946.3 | 14950.8 |
| 67.5° | 345.1 | 346.1 | 345.1 | 348.0 | 362.5 | 386.5 | 655.7 | 3061.1 | 13477.0 | 17456.3 |
| 70° | 319.2 | 321.1 | 316.3 | 316.3 | 327.8 | 328.8 | 410.5 | 1678.6 | 13036.7 | 19556.0 |
| 72.5° | 288.4 | 291.3 | 283.6 | 281.7 | 290.3 | 286.5 | 308.6 | 805.7 | 11192.7 | 20182.8 |
| 75° | 261.5 | 265.3 | 248.0 | 243.2 | 243.2 | 240.4 | 250.9 | 413.4 | 7264.4 | 16464.1 |
| 77.5° | 237.5 | 245.2 | 217.3 | 201.9 | 198.0 | 189.4 | 204.8 | 252.9 | 3177.5 | 7729.7 |
| 80° | 196.1 | 206.7 | 178.8 | 160.6 | 153.8 | 144.2 | 161.5 | 176.9 | 945.1 | 1794.9 |
| 82.5° | 146.1 | 150.9 | 126.9 | 114.4 | 108.6 | 101.9 | 121.1 | 123.1 | 307.7 | 635.5 |
| 85° | 93.3 | 95.2 | 77.9 | 67.3 | 64.4 | 61.5 | 76.9 | 67.3 | 117.3 | 467.2 |
| 87.5° | 32.7 | 37.5 | 29.8 | 26.9 | 28.8 | 24.0 | 35.6 | 20.2 | 32.7 | 329.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

3380.3
3382.2
3404.3
3427.4
3436.1
3443.8
3463.0
3505.3
3569.7
3638.9
3723.5
3824.5
3899.5
3983.1
4122.5
4310.9
4594.6
4769.5
4871.4
5173.3
5620.4
6288.6
7203.8
8376.7
9891.0
11759.0
13972.1
16399.7
19278.1
20913.5
17610.1
7569.2
1719.0
718.2
678.8
408.6
0.0

OF REPORT)