

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: McGRAW-EDISON

Report Number: P940783

Luminaire Tested: **GALN-SB4A-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940783
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: MCGRAW-EDISON
Catalog Number: GALN-SB4A-735-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17785 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

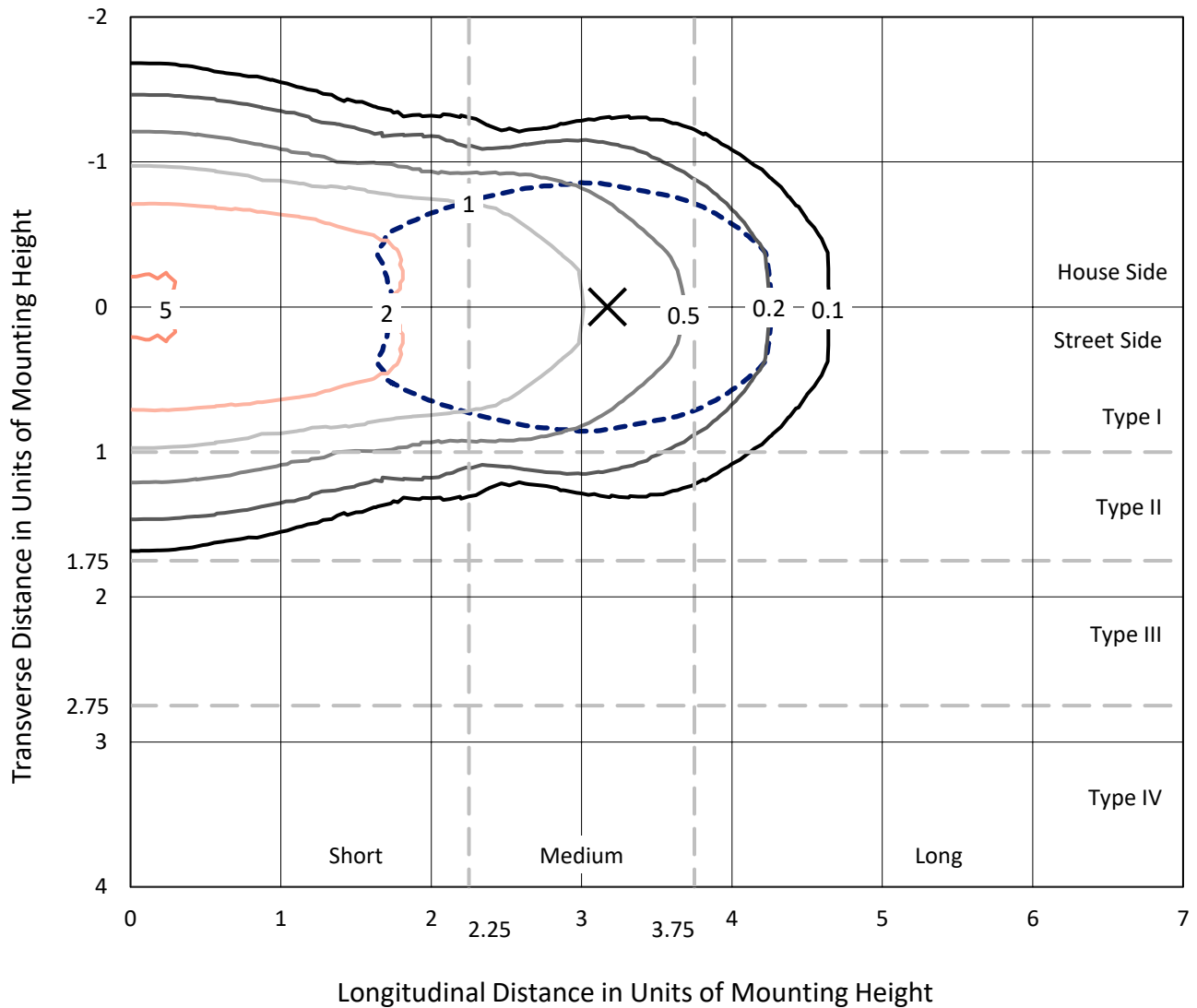
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940783
 CATALOG NUMBER: GALN-SB4A-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

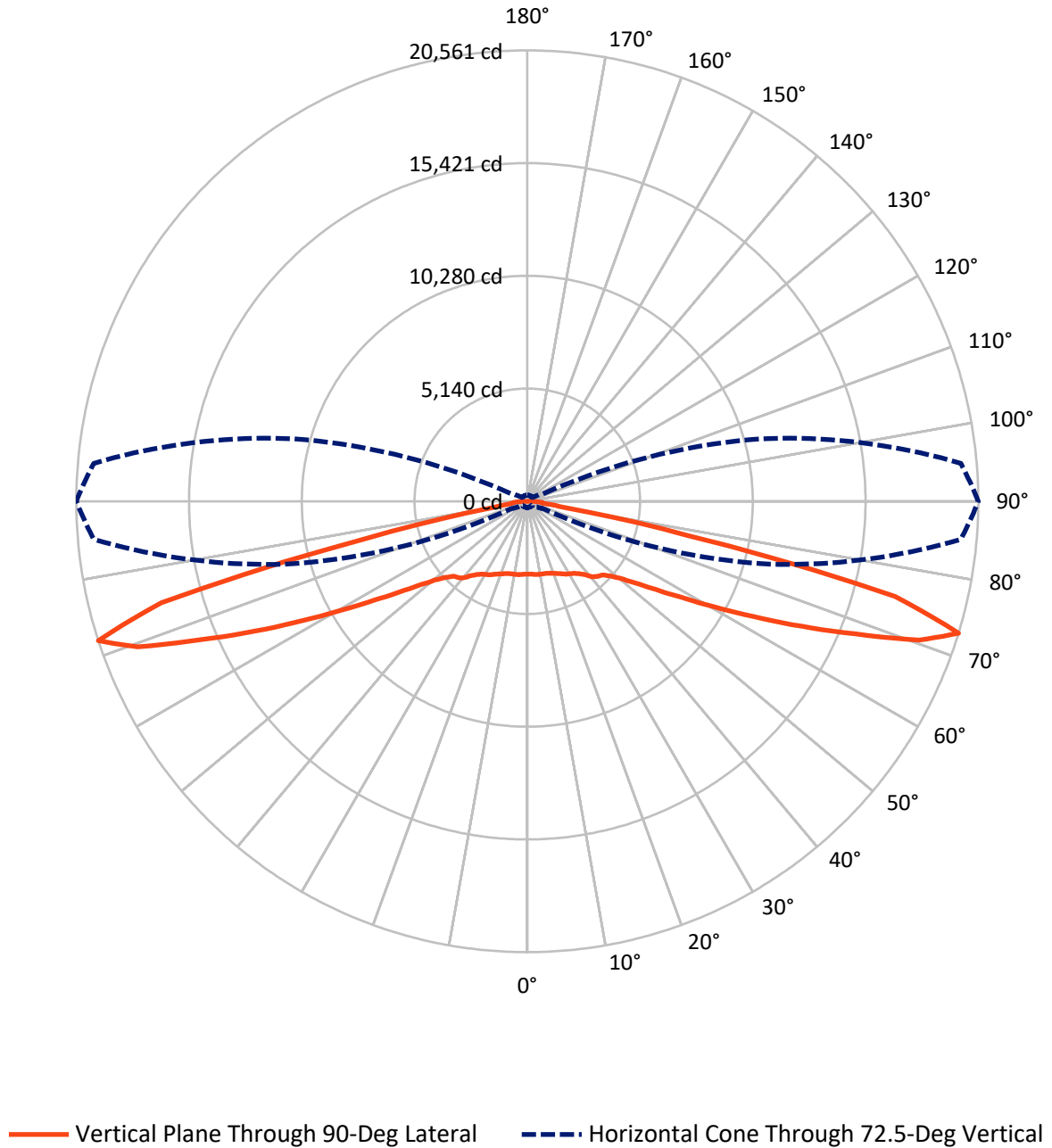
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type I - Short - N/A

REPORT NUMBER: P940783
CATALOG NUMBER: GALN-SB4A-735-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P940783

CATALOG NUMBER: GALN-SB4A-735-U-T1

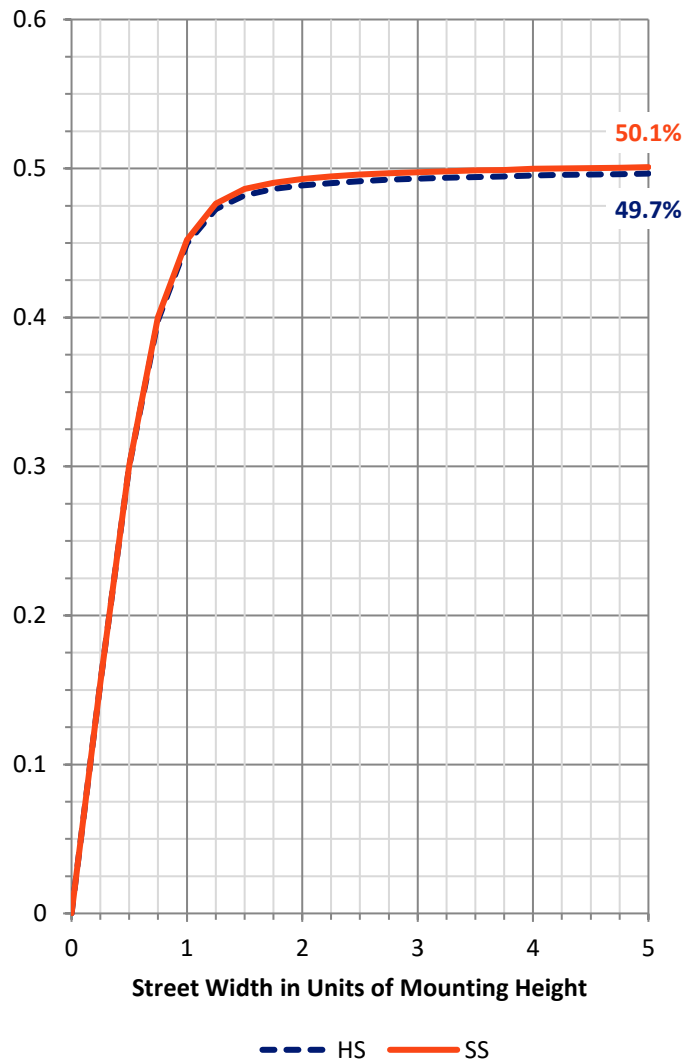
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8892.5 | 0.0 | 8892.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8892.5 | 0.0 | 8892.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17785.0 | 0.0 | 17785.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 322.2 | 1.8 |
| 10°-20° | 985.3 | 5.5 |
| 20°-30° | 1642.8 | 9.2 |
| 30°-40° | 2259.4 | 12.7 |
| 40°-50° | 2759.4 | 15.5 |
| 50°-60° | 3191.5 | 17.9 |
| 60°-70° | 3805.4 | 21.4 |
| 70°-80° | 2655.9 | 14.9 |
| 80°-90° | 163.1 | 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° | 17785.0 | 100.0 |
| 0°-180° | 17785.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P940783

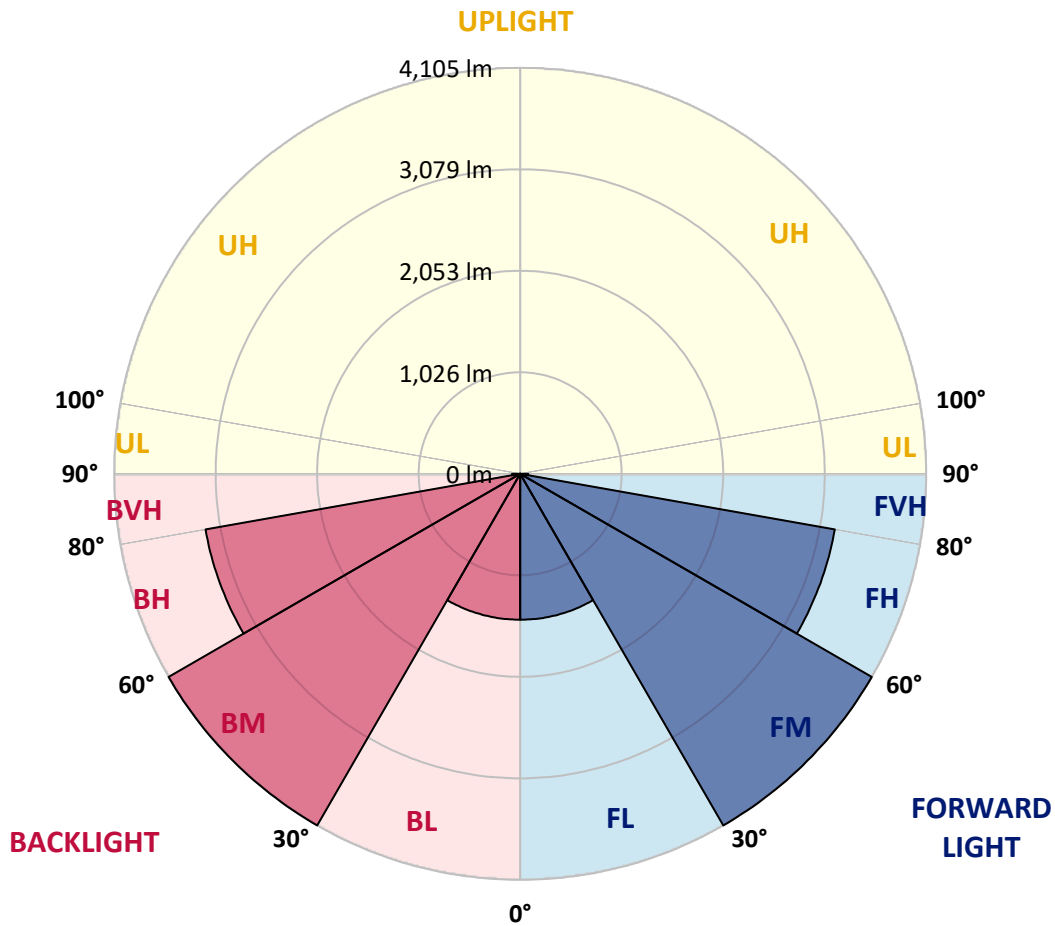
CATALOG NUMBER: GALN-SB4A-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1475.2 | 8.3 | | | |
| FM (30°-60°) | 4105.1 | 23.1 | | | |
| FH (60°-80°) | 3230.6 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 81.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1475.2 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 4105.1 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3230.6 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 81.6 | 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



REPORT NUMBER: P940783

CATALOG NUMBER: GALN-SB4A-735-U-T1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 3323.3 | 3323.3 | 3323.3 | 3323.3 | 3323.3 | 3323.3 | 3323.3 | 3323.3 | 3323.3 | 3323.3 |
| 2.5° | 3326.2 | 3329.9 | 3329.9 | 3327.1 | 3333.7 | 3328.0 | 3328.0 | 3325.2 | 3328.0 | 3325.2 |
| 5° | 3343.2 | 3347.9 | 3349.8 | 3348.8 | 3357.3 | 3352.6 | 3352.6 | 3348.8 | 3349.8 | 3346.9 |
| 7.5° | 3375.3 | 3381.9 | 3385.7 | 3390.4 | 3402.7 | 3397.0 | 3393.3 | 3381.9 | 3377.2 | 3369.6 |
| 10° | 3385.7 | 3393.3 | 3405.5 | 3430.1 | 3458.5 | 3459.4 | 3448.1 | 3419.7 | 3398.0 | 3381.0 |
| 12.5° | 3353.6 | 3364.0 | 3389.5 | 3439.6 | 3502.9 | 3528.4 | 3510.5 | 3463.2 | 3420.7 | 3390.4 |
| 15° | 3312.9 | 3324.3 | 3363.0 | 3438.6 | 3532.2 | 3591.8 | 3589.9 | 3527.5 | 3459.4 | 3412.2 |
| 17.5° | 3249.6 | 3260.9 | 3316.7 | 3422.6 | 3554.9 | 3653.2 | 3679.7 | 3615.4 | 3519.9 | 3456.6 |
| 20° | 3135.2 | 3145.6 | 3223.1 | 3371.5 | 3562.4 | 3718.4 | 3787.4 | 3730.7 | 3611.6 | 3525.6 |
| 22.5° | 2986.8 | 3002.9 | 3093.6 | 3283.6 | 3544.5 | 3786.5 | 3910.3 | 3871.5 | 3718.4 | 3599.3 |
| 25° | 2828.0 | 2845.0 | 2950.9 | 3175.9 | 3498.2 | 3835.6 | 4055.8 | 4031.3 | 3839.4 | 3691.0 |
| 27.5° | 2691.0 | 2708.9 | 2824.3 | 3069.1 | 3426.3 | 3854.5 | 4199.5 | 4211.8 | 3985.9 | 3792.1 |
| 30° | 2583.2 | 2600.2 | 2723.1 | 2983.0 | 3333.7 | 3835.6 | 4325.2 | 4410.3 | 4135.2 | 3880.0 |
| 32.5° | 2465.1 | 2486.8 | 2616.3 | 2878.1 | 3224.1 | 3790.2 | 4434.9 | 4624.9 | 4308.2 | 3974.6 |
| 35° | 2315.7 | 2335.6 | 2471.7 | 2734.5 | 3080.4 | 3717.5 | 4526.6 | 4863.0 | 4555.9 | 4118.2 |
| 37.5° | 2134.3 | 2153.2 | 2288.3 | 2554.9 | 2937.7 | 3615.4 | 4596.5 | 5131.5 | 4850.8 | 4325.2 |
| 40° | 1951.8 | 1969.8 | 2096.4 | 2354.5 | 2766.6 | 3484.9 | 4621.1 | 5394.2 | 5189.1 | 4609.7 |
| 42.5° | 1784.5 | 1800.6 | 1916.9 | 2156.9 | 2574.7 | 3318.6 | 4588.9 | 5623.0 | 5492.5 | 4808.2 |
| 45° | 1630.5 | 1644.6 | 1747.7 | 1971.7 | 2375.3 | 3116.3 | 4492.5 | 5868.7 | 5853.6 | 4950.0 |
| 47.5° | 1454.7 | 1468.8 | 1575.6 | 1792.1 | 2175.8 | 2879.1 | 4329.0 | 6110.7 | 6355.5 | 5271.4 |
| 50° | 1240.1 | 1252.4 | 1362.0 | 1585.1 | 1968.8 | 2626.7 | 4102.2 | 6300.7 | 6988.8 | 5758.1 |
| 52.5° | 985.8 | 999.1 | 1105.9 | 1328.9 | 1723.1 | 2355.4 | 3803.5 | 6424.5 | 7720.4 | 6468.9 |
| 55° | 733.5 | 742.9 | 835.6 | 1035.9 | 1418.7 | 2046.4 | 3429.2 | 6459.5 | 8550.3 | 7440.6 |
| 57.5° | 532.1 | 537.8 | 597.4 | 746.7 | 1075.6 | 1659.8 | 2974.5 | 6368.7 | 9538.0 | 8686.4 |
| 60° | 431.0 | 432.9 | 450.9 | 517.0 | 747.7 | 1223.1 | 2425.4 | 6056.8 | 10609.8 | 10292.3 |
| 62.5° | 391.3 | 391.3 | 396.0 | 414.0 | 505.7 | 807.2 | 1760.9 | 5410.3 | 11759.2 | 12321.6 |
| 65° | 363.9 | 363.9 | 365.8 | 374.3 | 398.9 | 514.2 | 1111.6 | 4357.4 | 12728.0 | 14698.8 |
| 67.5° | 339.3 | 340.3 | 339.3 | 342.2 | 356.3 | 380.0 | 644.6 | 3009.5 | 13249.8 | 17162.0 |
| 70° | 313.8 | 315.7 | 311.0 | 311.0 | 322.3 | 323.3 | 403.6 | 1650.3 | 12816.9 | 19226.3 |
| 72.5° | 283.6 | 286.4 | 278.8 | 276.9 | 285.4 | 281.7 | 303.4 | 792.1 | 11004.0 | 19842.5 |
| 75° | 257.1 | 260.9 | 243.9 | 239.1 | 239.1 | 236.3 | 246.7 | 406.4 | 7141.9 | 16186.5 |
| 77.5° | 233.5 | 241.0 | 213.6 | 198.5 | 194.7 | 186.2 | 201.3 | 248.6 | 3123.9 | 7599.4 |
| 80° | 192.8 | 203.2 | 175.8 | 157.8 | 151.2 | 141.8 | 158.8 | 173.9 | 929.1 | 1764.7 |
| 82.5° | 143.7 | 148.4 | 124.8 | 112.5 | 106.8 | 100.2 | 119.1 | 121.0 | 302.5 | 624.8 |
| 85° | 91.7 | 93.6 | 76.6 | 66.2 | 63.3 | 60.5 | 75.6 | 66.2 | 115.3 | 459.4 |
| 87.5° | 32.1 | 36.9 | 29.3 | 26.5 | 28.4 | 23.6 | 35.0 | 19.8 | 32.1 | 324.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

3323.3
3325.2
3346.9
3369.6
3378.1
3385.7
3404.6
3446.2
3509.5
3577.6
3660.8
3760.0
3833.7
3916.0
4053.0
4238.3
4517.1
4689.1
4789.3
5086.1
5525.6
6182.5
7082.4
8235.5
9724.2
11560.7
13736.6
16123.2
18953.1
20560.9
17313.2
7441.5
1690.0
706.1
667.3
401.7
0.0

OF REPORT)