

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: P953356

Luminaire Tested: **GALN-SB6D-940-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-940-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46829 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

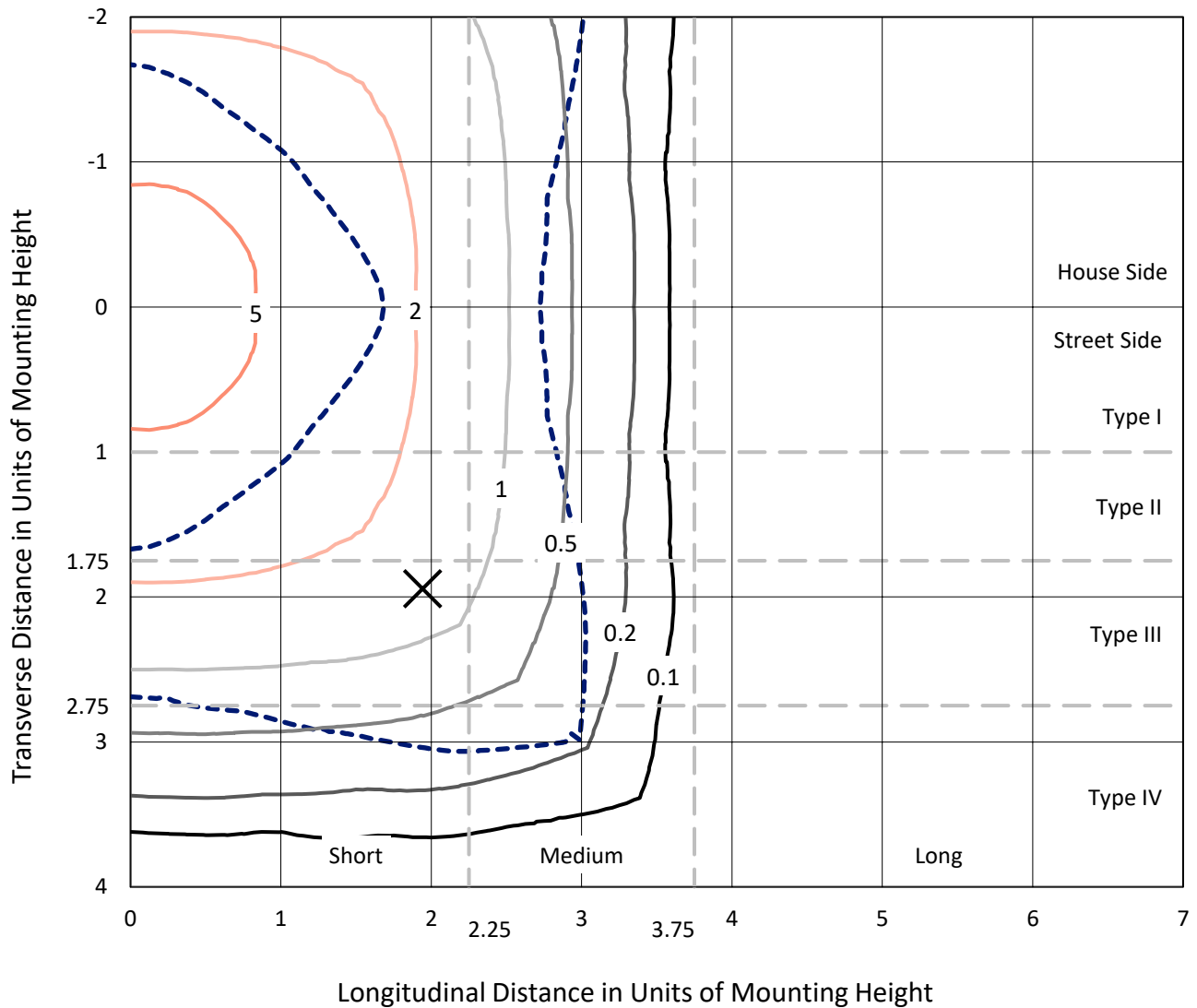
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953356
 CATALOG NUMBER: GALN-SB6D-940-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

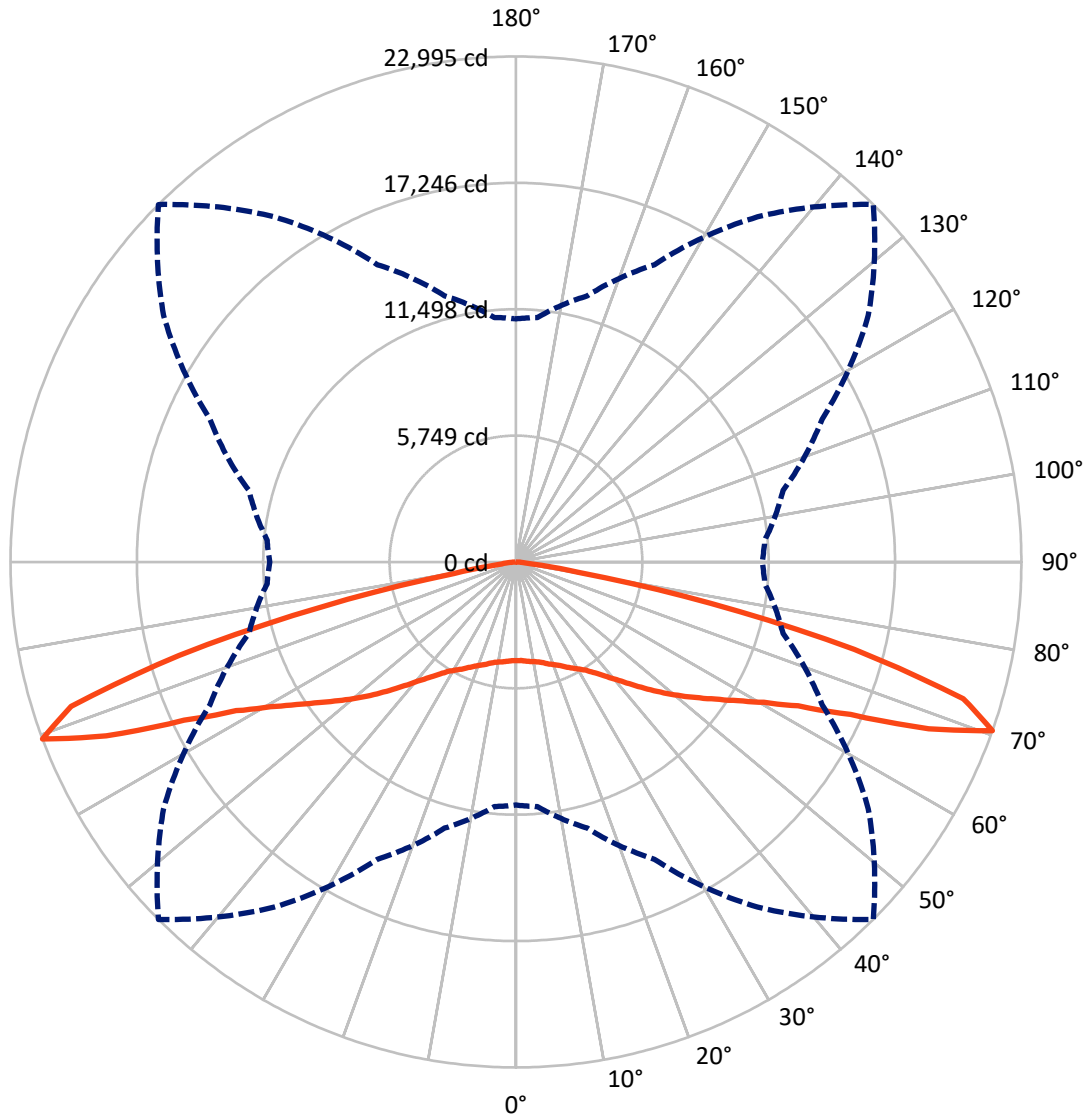
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

REPORT NUMBER: P953356
CATALOG NUMBER: GALN-SB6D-940-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P953356
 CATALOG NUMBER: GALN-SB6D-940-U-5MQ

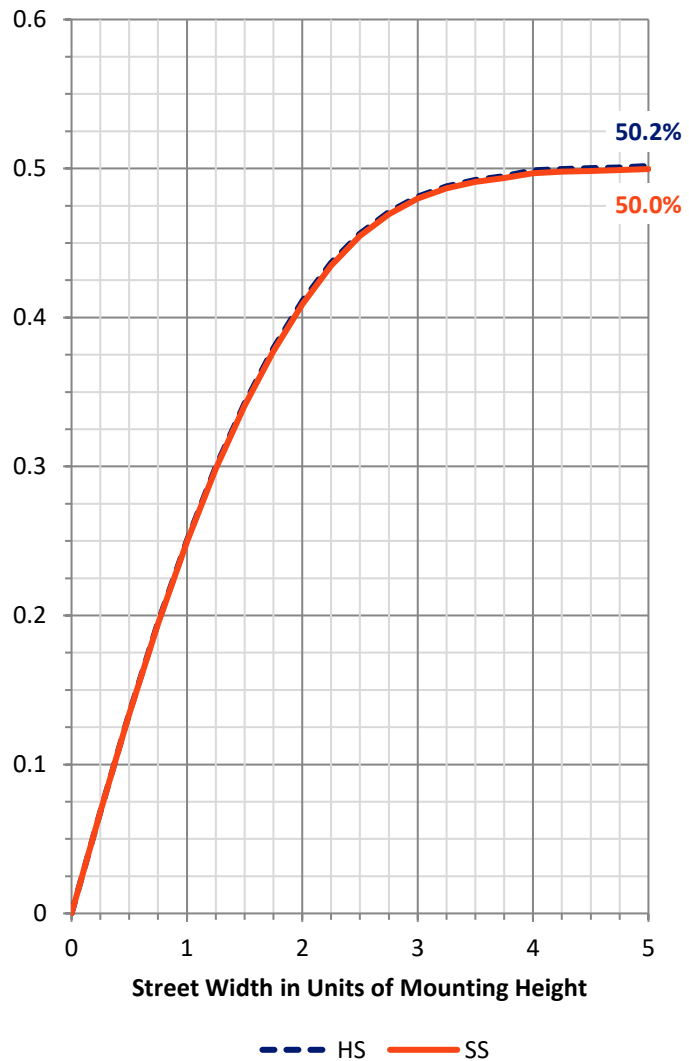
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23414.5 | 0.0 | 23414.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23414.5 | 0.0 | 23414.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 46829.0 | 0.0 | 46829.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 435.8 | 0.9 |
| 10°-20° | 1351.3 | 2.9 |
| 20°-30° | 2415.0 | 5.2 |
| 30°-40° | 3914.7 | 8.4 |
| 40°-50° | 6376.3 | 13.6 |
| 50°-60° | 9721.8 | 20.8 |
| 60°-70° | 14462.9 | 30.9 |
| 70°-80° | 7882.8 | 16.8 |
| 80°-90° | 268.4 | 0.6 |
| 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° | 46829.0 | 100.0 |
| 0°-180° | 46829.0 | 100.0 |



REPORT NUMBER: P953356

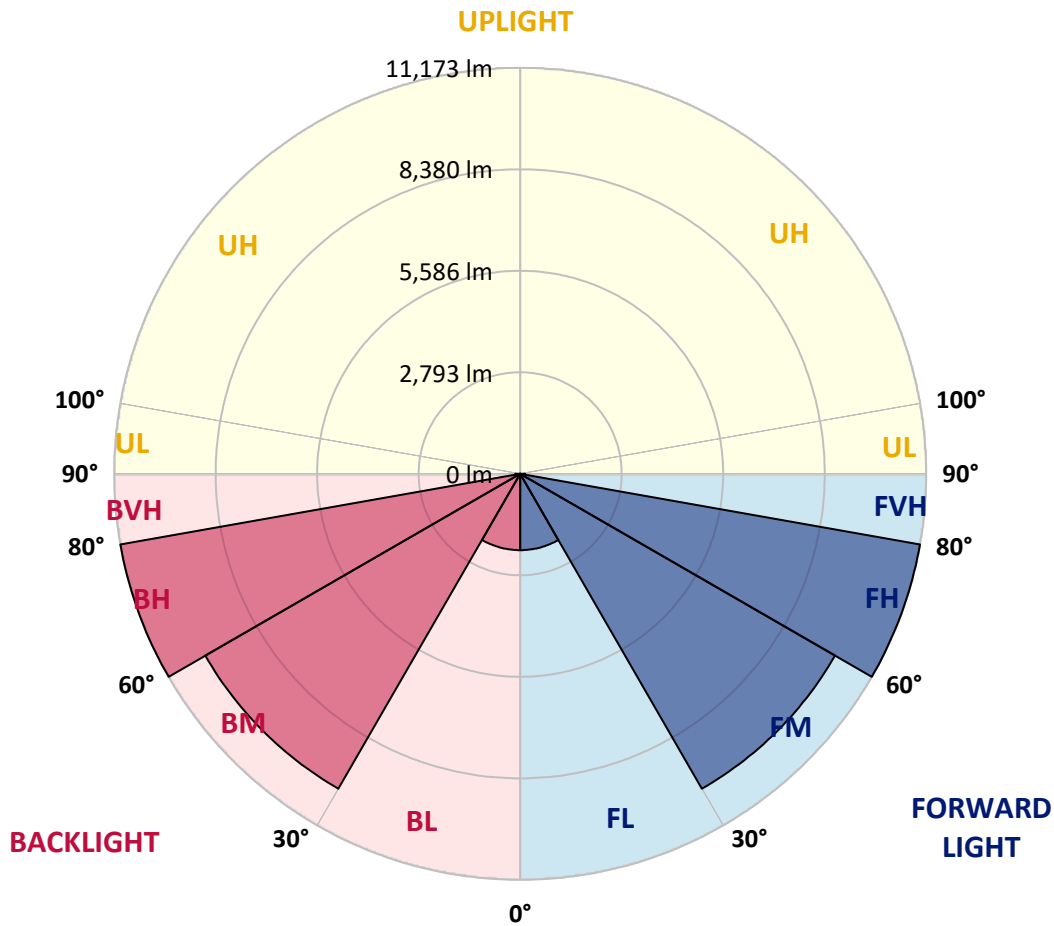
CATALOG NUMBER: GALN-SB6D-940-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2101.1 | 4.5 | | | |
| FM (30°-60°) | 10006.4 | 21.4 | | | |
| FH (60°-80°) | 11172.8 | 23.9 | | | G4/12000 |
| FVH (80°-90°) | 134.2 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2101.1 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 10006.4 | 21.4 | B5 | | |
| BH (60°-80°) | 11172.8 | 23.9 | B5 | | G4/12000 |
| BVH (80°-90°) | 134.2 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short



REPORT NUMBER: P953356
 CATALOG NUMBER: GALN-SB6D-940-U-5MQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4485.7 | 4485.7 | 4485.7 | 4485.7 | 4485.7 | 4485.7 | 4485.7 | 4485.7 | 4485.7 | 4485.7 |
| 2.5° | 4506.9 | 4511.6 | 4502.2 | 4497.5 | 4492.8 | 4485.7 | 4488.1 | 4499.8 | 4509.2 | 4506.9 |
| 5° | 4544.5 | 4549.2 | 4542.2 | 4539.8 | 4530.4 | 4528.1 | 4528.1 | 4539.8 | 4546.9 | 4542.2 |
| 7.5° | 4586.8 | 4593.9 | 4582.1 | 4579.8 | 4575.1 | 4570.4 | 4568.0 | 4579.8 | 4586.8 | 4586.8 |
| 10° | 4626.8 | 4633.8 | 4624.4 | 4617.4 | 4612.7 | 4612.7 | 4608.0 | 4617.4 | 4629.1 | 4626.8 |
| 12.5° | 4669.1 | 4673.8 | 4664.4 | 4659.7 | 4659.7 | 4666.8 | 4659.7 | 4664.4 | 4673.8 | 4669.1 |
| 15° | 4720.8 | 4723.2 | 4720.8 | 4727.9 | 4739.6 | 4763.2 | 4742.0 | 4737.3 | 4742.0 | 4730.2 |
| 17.5° | 4791.4 | 4796.1 | 4805.5 | 4821.9 | 4838.4 | 4880.7 | 4843.1 | 4831.3 | 4831.3 | 4807.8 |
| 20° | 4878.4 | 4885.4 | 4899.5 | 4927.7 | 4948.9 | 4988.9 | 4951.2 | 4934.8 | 4927.7 | 4897.2 |
| 22.5° | 4970.0 | 4981.8 | 5003.0 | 5040.6 | 5078.2 | 5115.8 | 5078.2 | 5050.0 | 5028.8 | 4988.9 |
| 25° | 5075.8 | 5089.9 | 5122.9 | 5184.0 | 5235.7 | 5289.8 | 5245.1 | 5188.7 | 5146.4 | 5089.9 |
| 27.5° | 5226.3 | 5242.8 | 5282.7 | 5358.0 | 5423.8 | 5470.8 | 5428.5 | 5355.6 | 5296.8 | 5228.7 |
| 30° | 5437.9 | 5454.4 | 5501.4 | 5581.3 | 5626.0 | 5656.5 | 5628.3 | 5571.9 | 5501.4 | 5423.8 |
| 32.5° | 5710.6 | 5731.8 | 5783.5 | 5858.7 | 5868.1 | 5872.8 | 5863.4 | 5835.2 | 5783.5 | 5689.5 |
| 35° | 6056.2 | 6079.7 | 6138.5 | 6199.6 | 6190.2 | 6199.6 | 6185.5 | 6176.1 | 6138.5 | 6030.3 |
| 37.5° | 6479.4 | 6507.6 | 6568.7 | 6615.8 | 6592.2 | 6580.5 | 6582.8 | 6585.2 | 6564.0 | 6444.1 |
| 40° | 6970.8 | 7008.4 | 7053.0 | 7102.4 | 7062.4 | 7027.2 | 7050.7 | 7069.5 | 7050.7 | 6928.4 |
| 42.5° | 7476.2 | 7530.3 | 7577.3 | 7647.8 | 7614.9 | 7570.3 | 7603.2 | 7624.3 | 7584.4 | 7452.7 |
| 45° | 8038.1 | 8089.8 | 8151.0 | 8256.8 | 8233.2 | 8186.2 | 8233.2 | 8238.0 | 8169.8 | 8014.6 |
| 47.5° | 8618.8 | 8672.9 | 8764.6 | 8905.6 | 8896.2 | 8844.5 | 8905.6 | 8872.7 | 8785.7 | 8600.0 |
| 50° | 9169.0 | 9244.2 | 9385.2 | 9582.7 | 9601.5 | 9538.1 | 9620.3 | 9556.9 | 9411.1 | 9178.4 |
| 52.5° | 9686.2 | 9766.1 | 9989.5 | 10257.5 | 10325.7 | 10243.4 | 10353.9 | 10243.4 | 10024.7 | 9726.1 |
| 55° | 10229.3 | 10318.6 | 10584.3 | 10934.6 | 11070.9 | 11009.8 | 11113.2 | 10946.3 | 10636.0 | 10273.9 |
| 57.5° | 10868.7 | 10922.8 | 11240.2 | 11656.3 | 11886.7 | 11900.8 | 11947.8 | 11665.7 | 11289.6 | 10878.1 |
| 60° | 11562.3 | 11637.5 | 11983.1 | 12481.5 | 12845.9 | 12963.5 | 12914.1 | 12495.6 | 12058.3 | 11585.8 |
| 62.5° | 12451.0 | 12533.3 | 12947.0 | 13544.2 | 14120.2 | 14411.7 | 14218.9 | 13612.4 | 13071.6 | 12505.0 |
| 65° | 13186.8 | 13278.5 | 14026.1 | 15091.2 | 16139.7 | 16725.1 | 16240.8 | 15124.1 | 14150.7 | 13351.4 |
| 67.5° | 12653.2 | 12766.0 | 13939.2 | 15895.2 | 18502.5 | 20249.3 | 18591.8 | 16135.0 | 14228.3 | 13144.5 |
| 70° | 11059.2 | 11165.0 | 12533.3 | 14924.2 | 19167.8 | 22995.3 | 19567.5 | 15363.9 | 12577.9 | 11364.8 |
| 72.5° | 7342.2 | 7683.1 | 9067.9 | 11936.1 | 17115.4 | 21279.0 | 17284.7 | 11693.9 | 8411.9 | 7325.8 |
| 75° | 2435.6 | 2708.4 | 3653.5 | 6187.9 | 11463.5 | 15914.0 | 10913.4 | 5475.5 | 2894.1 | 2083.0 |
| 77.5° | 613.6 | 707.7 | 975.7 | 1770.3 | 4572.7 | 9060.8 | 4116.6 | 1445.9 | 787.6 | 550.1 |
| 80° | 298.6 | 329.1 | 470.2 | 590.1 | 1144.9 | 2880.0 | 1074.4 | 554.8 | 371.5 | 286.8 |
| 82.5° | 164.6 | 166.9 | 265.7 | 333.8 | 425.5 | 745.3 | 442.0 | 324.4 | 213.9 | 174.0 |
| 85° | 101.1 | 98.7 | 141.1 | 178.7 | 178.7 | 265.7 | 211.6 | 178.7 | 122.3 | 108.1 |
| 87.5° | 40.0 | 40.0 | 51.7 | 56.4 | 49.4 | 68.2 | 54.1 | 58.8 | 47.0 | 44.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4485.7 |
| 4509.2 |
| 4544.5 |
| 4586.8 |
| 4626.8 |
| 4666.8 |
| 4730.2 |
| 4807.8 |
| 4897.2 |
| 4986.5 |
| 5087.6 |
| 5226.3 |
| 5423.8 |
| 5691.8 |
| 6030.3 |
| 6444.1 |
| 6928.4 |
| 7462.1 |
| 8031.1 |
| 8588.3 |
| 9173.7 |
| 9697.9 |
| 10224.6 |
| 10821.7 |
| 11510.6 |
| 12406.3 |
| 13219.7 |
| 12982.3 |
| 11202.6 |
| 7088.3 |
| 1970.1 |
| 491.4 |
| 263.3 |
| 174.0 |
| 112.8 |
| 47.0 |
| 0.0 |

OF REPORT)