

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: P948128

Luminaire Tested: **GALN-SB3B-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-740-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18731 lumens
Efficiency: N/A
Efficacy: 171.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

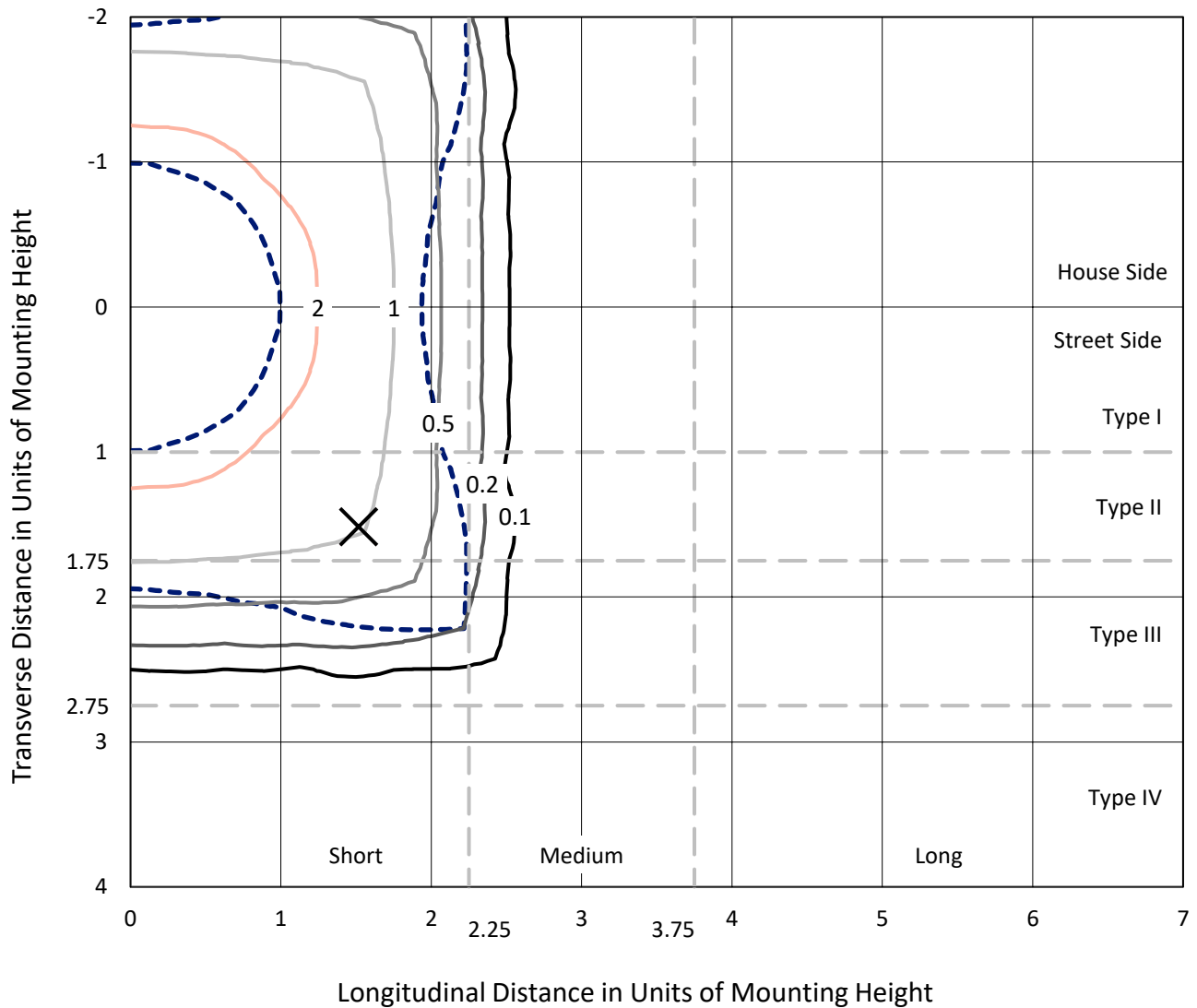
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

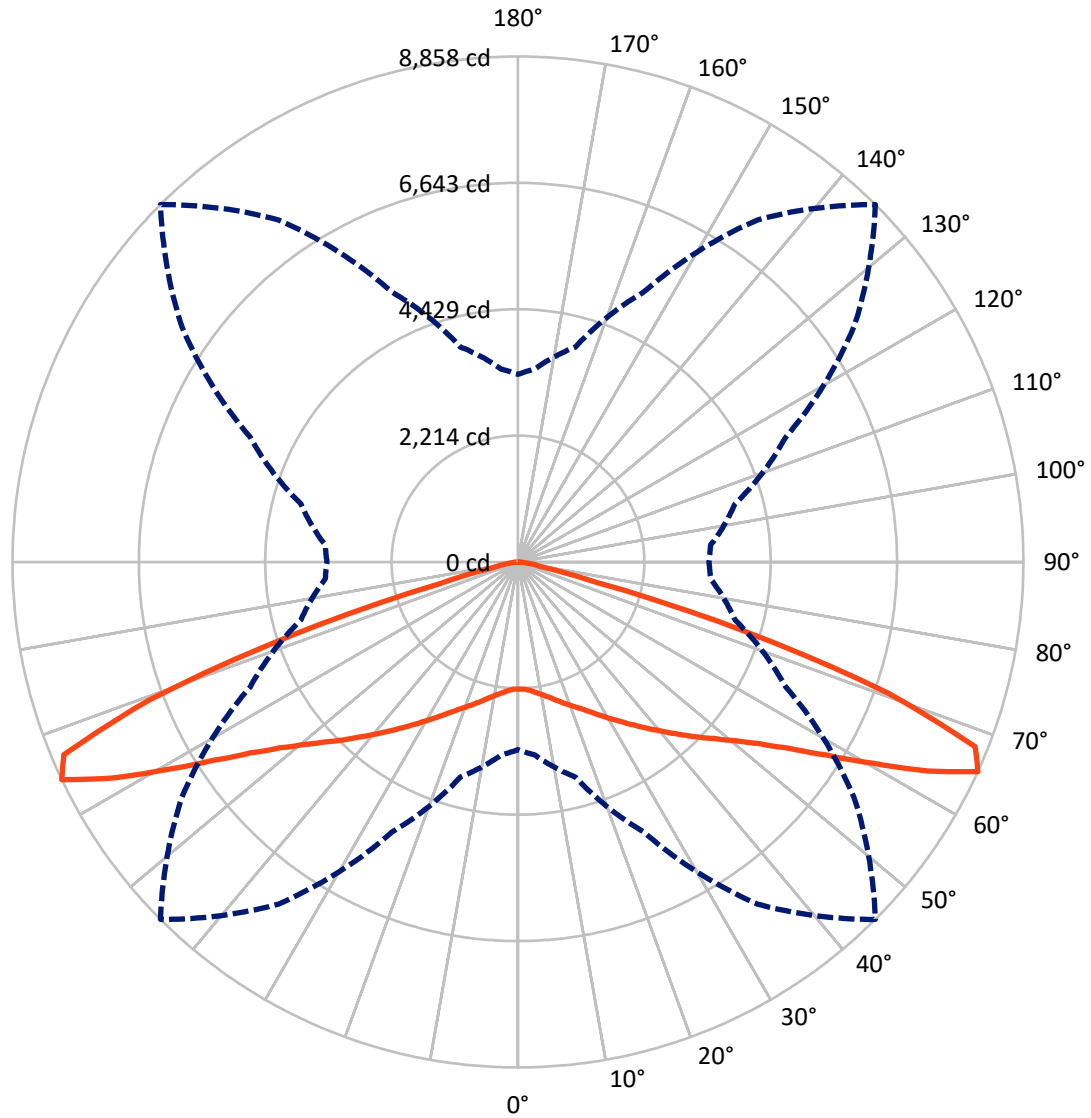
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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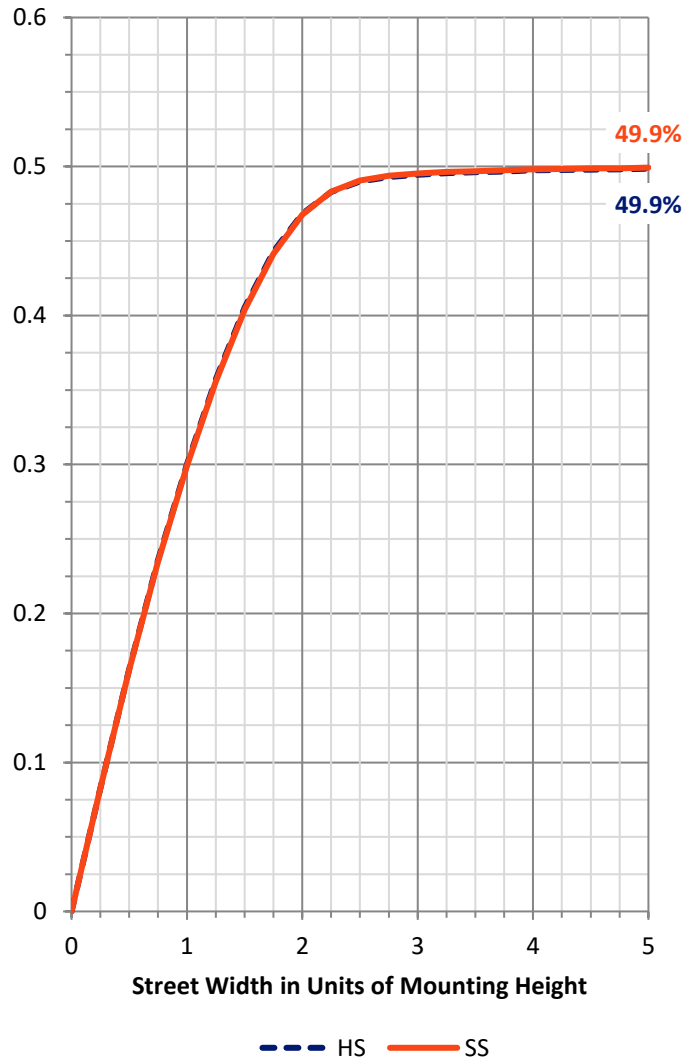
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9365.5 | 0.0 | 9365.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9365.5 | 0.0 | 9365.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18731.0 | 0.0 | 18731.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 220.0 | 1.2 |
| 10°-20° | 717.9 | 3.8 |
| 20°-30° | 1355.4 | 7.2 |
| 30°-40° | 2219.5 | 11.8 |
| 40°-50° | 3441.3 | 18.4 |
| 50°-60° | 5083.5 | 27.1 |
| 60°-70° | 4839.0 | 25.8 |
| 70°-80° | 780.8 | 4.2 |
| 80°-90° | 73.6 | 0.4 |
| 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° | 18731.0 | 100.0 |
| 0°-180° | 18731.0 | 100.0 |



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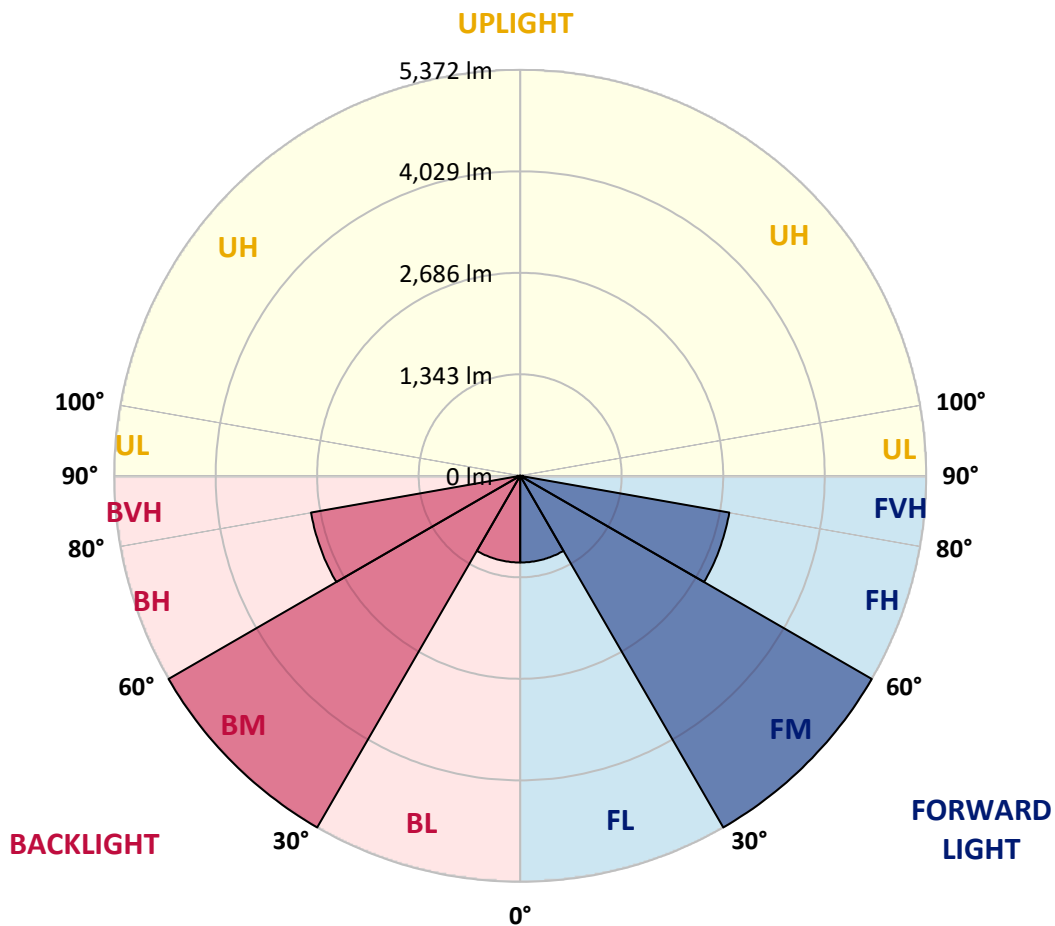
CATALOG NUMBER: GALN-SB3B-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1146.6 | 6.1 | | | |
| FM (30°-60°) | 5372.1 | 28.7 | | | |
| FH (60°-80°) | 2809.9 | 15.0 | | | G2/5000 |
| FVH (80°-90°) | 36.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1146.6 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 5372.1 | 28.7 | B4/8500 | | |
| BH (60°-80°) | 2809.9 | 15.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 36.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2229.2 | 2229.2 | 2229.2 | 2229.2 | 2229.2 | 2229.2 | 2229.2 | 2229.2 | 2229.2 | 2229.2 |
| 2.5° | 2244.2 | 2236.7 | 2242.3 | 2237.6 | 2233.9 | 2230.1 | 2232.0 | 2238.6 | 2241.4 | 2242.3 |
| 5° | 2274.3 | 2267.7 | 2270.5 | 2270.5 | 2263.9 | 2262.1 | 2263.0 | 2267.7 | 2273.3 | 2273.3 |
| 7.5° | 2323.2 | 2316.6 | 2323.2 | 2319.4 | 2313.8 | 2311.9 | 2310.9 | 2314.7 | 2323.2 | 2323.2 |
| 10° | 2382.4 | 2374.8 | 2378.6 | 2376.7 | 2370.1 | 2367.3 | 2366.4 | 2372.0 | 2379.5 | 2378.6 |
| 12.5° | 2447.2 | 2438.7 | 2443.4 | 2437.8 | 2435.9 | 2433.1 | 2433.1 | 2432.2 | 2436.9 | 2433.1 |
| 15° | 2519.6 | 2513.9 | 2515.8 | 2512.1 | 2514.9 | 2513.0 | 2505.5 | 2501.7 | 2503.6 | 2498.0 |
| 17.5° | 2605.1 | 2591.9 | 2598.5 | 2596.6 | 2596.6 | 2600.4 | 2588.2 | 2583.5 | 2587.2 | 2581.6 |
| 20° | 2703.8 | 2690.6 | 2693.4 | 2689.7 | 2685.0 | 2688.7 | 2673.7 | 2677.5 | 2680.3 | 2676.5 |
| 22.5° | 2811.8 | 2794.9 | 2794.0 | 2795.9 | 2785.5 | 2786.5 | 2776.1 | 2785.5 | 2791.2 | 2780.8 |
| 25° | 2922.7 | 2904.9 | 2917.1 | 2912.4 | 2899.2 | 2902.1 | 2894.5 | 2903.9 | 2908.6 | 2895.5 |
| 27.5° | 3040.2 | 3028.0 | 3039.3 | 3042.1 | 3026.1 | 3037.4 | 3026.1 | 3034.6 | 3039.3 | 3019.5 |
| 30° | 3177.4 | 3165.2 | 3175.5 | 3183.1 | 3164.3 | 3182.1 | 3172.7 | 3178.4 | 3179.3 | 3155.8 |
| 32.5° | 3326.8 | 3308.1 | 3334.4 | 3338.1 | 3317.5 | 3339.1 | 3326.8 | 3334.4 | 3339.1 | 3307.1 |
| 35° | 3509.2 | 3485.7 | 3515.7 | 3511.0 | 3493.2 | 3511.0 | 3499.8 | 3511.0 | 3522.3 | 3483.8 |
| 37.5° | 3705.6 | 3681.1 | 3713.1 | 3704.6 | 3687.7 | 3699.9 | 3693.4 | 3700.9 | 3718.7 | 3677.4 |
| 40° | 3921.7 | 3891.7 | 3934.9 | 3919.9 | 3903.9 | 3902.0 | 3905.8 | 3910.5 | 3934.0 | 3887.9 |
| 42.5° | 4152.9 | 4121.0 | 4185.8 | 4162.3 | 4139.8 | 4124.7 | 4136.9 | 4146.3 | 4168.9 | 4117.2 |
| 45° | 4417.0 | 4380.4 | 4464.9 | 4436.7 | 4401.0 | 4370.0 | 4389.7 | 4403.8 | 4436.7 | 4374.7 |
| 47.5° | 4708.3 | 4667.0 | 4757.2 | 4748.7 | 4690.5 | 4622.8 | 4667.9 | 4708.3 | 4732.8 | 4657.6 |
| 50° | 4993.1 | 4961.1 | 5079.6 | 5089.9 | 5018.5 | 4923.5 | 4986.5 | 5047.6 | 5054.2 | 4955.5 |
| 52.5° | 5260.0 | 5228.0 | 5400.0 | 5464.9 | 5401.0 | 5288.2 | 5354.9 | 5416.9 | 5367.1 | 5239.3 |
| 55° | 5473.3 | 5447.0 | 5666.0 | 5833.3 | 5854.9 | 5761.8 | 5801.3 | 5799.4 | 5635.9 | 5439.5 |
| 57.5° | 5525.0 | 5521.3 | 5797.6 | 6151.9 | 6377.4 | 6388.7 | 6310.7 | 6111.4 | 5759.0 | 5494.9 |
| 60° | 5290.1 | 5313.6 | 5693.2 | 6318.2 | 6919.7 | 7169.6 | 6832.3 | 6263.7 | 5619.0 | 5252.5 |
| 62.5° | 4587.1 | 4649.1 | 5106.8 | 6115.2 | 7357.6 | 8068.1 | 7250.5 | 6032.5 | 5043.8 | 4565.5 |
| 65° | 3287.4 | 3395.5 | 3901.1 | 5218.6 | 7318.1 | 8857.5 | 7190.3 | 5176.4 | 3938.7 | 3387.0 |
| 67.5° | 1491.4 | 1601.4 | 2030.9 | 3573.1 | 6361.4 | 8643.2 | 6346.4 | 3610.7 | 2132.4 | 1607.0 |
| 70° | 540.4 | 559.2 | 697.3 | 1430.4 | 4065.5 | 6886.8 | 4239.4 | 1440.7 | 741.5 | 595.8 |
| 72.5° | 327.0 | 329.9 | 359.0 | 512.2 | 1412.5 | 4181.1 | 1472.6 | 529.1 | 366.5 | 325.2 |
| 75° | 207.7 | 205.8 | 255.6 | 312.9 | 500.9 | 1410.6 | 525.3 | 312.9 | 254.7 | 232.1 |
| 77.5° | 149.4 | 154.1 | 183.3 | 234.0 | 315.8 | 478.4 | 310.1 | 223.7 | 183.3 | 150.4 |
| 80° | 111.8 | 114.7 | 133.4 | 182.3 | 221.8 | 297.9 | 197.4 | 165.4 | 138.1 | 94.0 |
| 82.5° | 80.8 | 80.8 | 87.4 | 132.5 | 135.3 | 160.7 | 107.1 | 116.5 | 91.2 | 66.7 |
| 85° | 47.9 | 47.0 | 54.5 | 78.9 | 70.5 | 59.2 | 48.9 | 71.4 | 57.3 | 41.4 |
| 87.5° | 16.9 | 17.9 | 16.9 | 22.6 | 18.8 | 16.0 | 15.0 | 19.7 | 16.0 | 14.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2229.2 |
| 2242.3 |
| 2273.3 |
| 2320.3 |
| 2376.7 |
| 2435.0 |
| 2498.9 |
| 2586.3 |
| 2685.0 |
| 2791.2 |
| 2910.5 |
| 3034.6 |
| 3169.9 |
| 3328.7 |
| 3507.3 |
| 3702.8 |
| 3902.9 |
| 4144.5 |
| 4406.7 |
| 4683.0 |
| 4967.7 |
| 5243.1 |
| 5446.1 |
| 5478.0 |
| 5209.2 |
| 4537.3 |
| 3346.6 |
| 1583.5 |
| 588.3 |
| 330.8 |
| 234.0 |
| 153.2 |
| 96.8 |
| 66.7 |
| 40.4 |
| 13.2 |
| 0.0 |

OF REPORT)