

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: P849201

Luminaire Tested: **GLAN-SB6A-850-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB6A-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23626 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

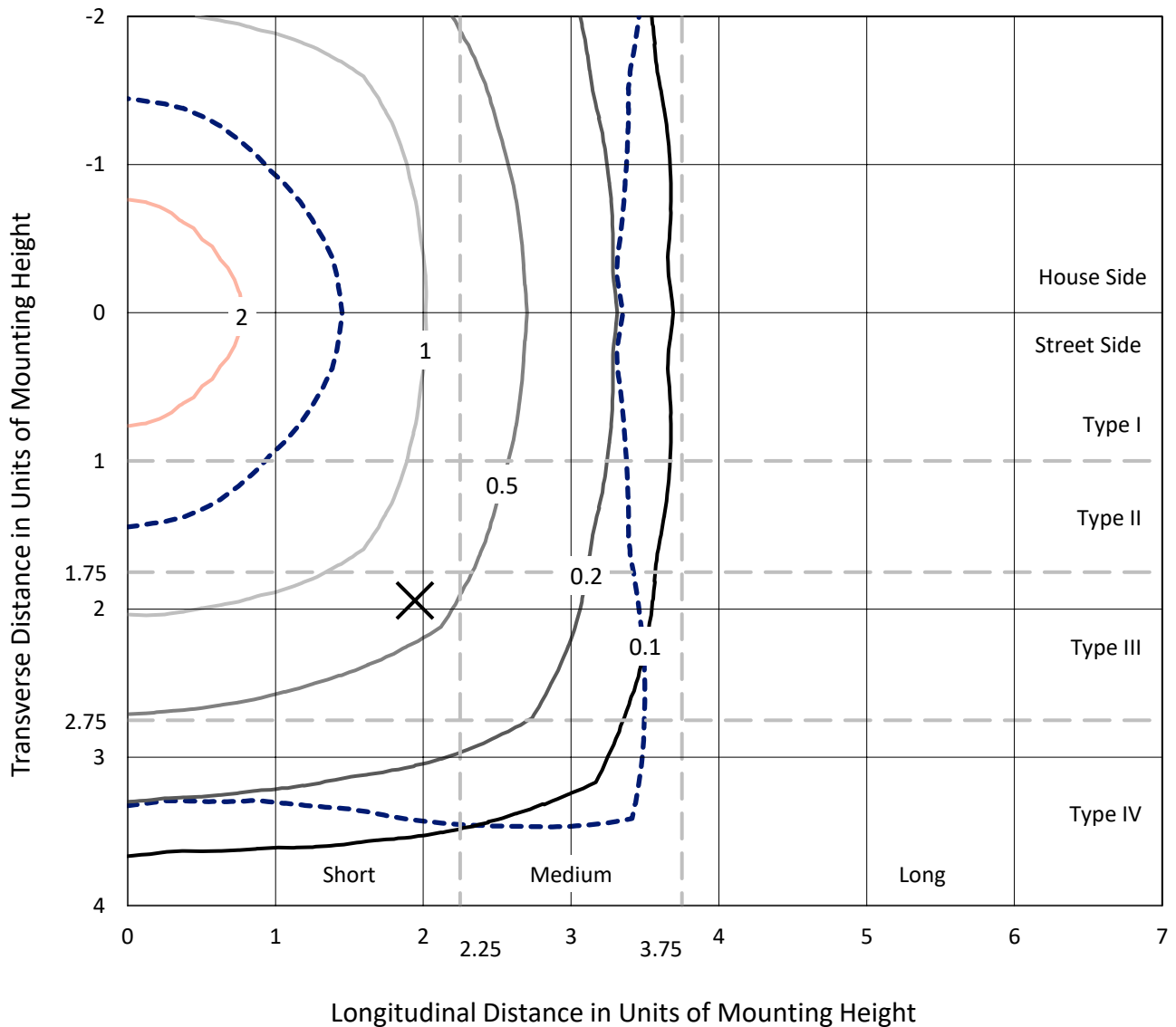
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

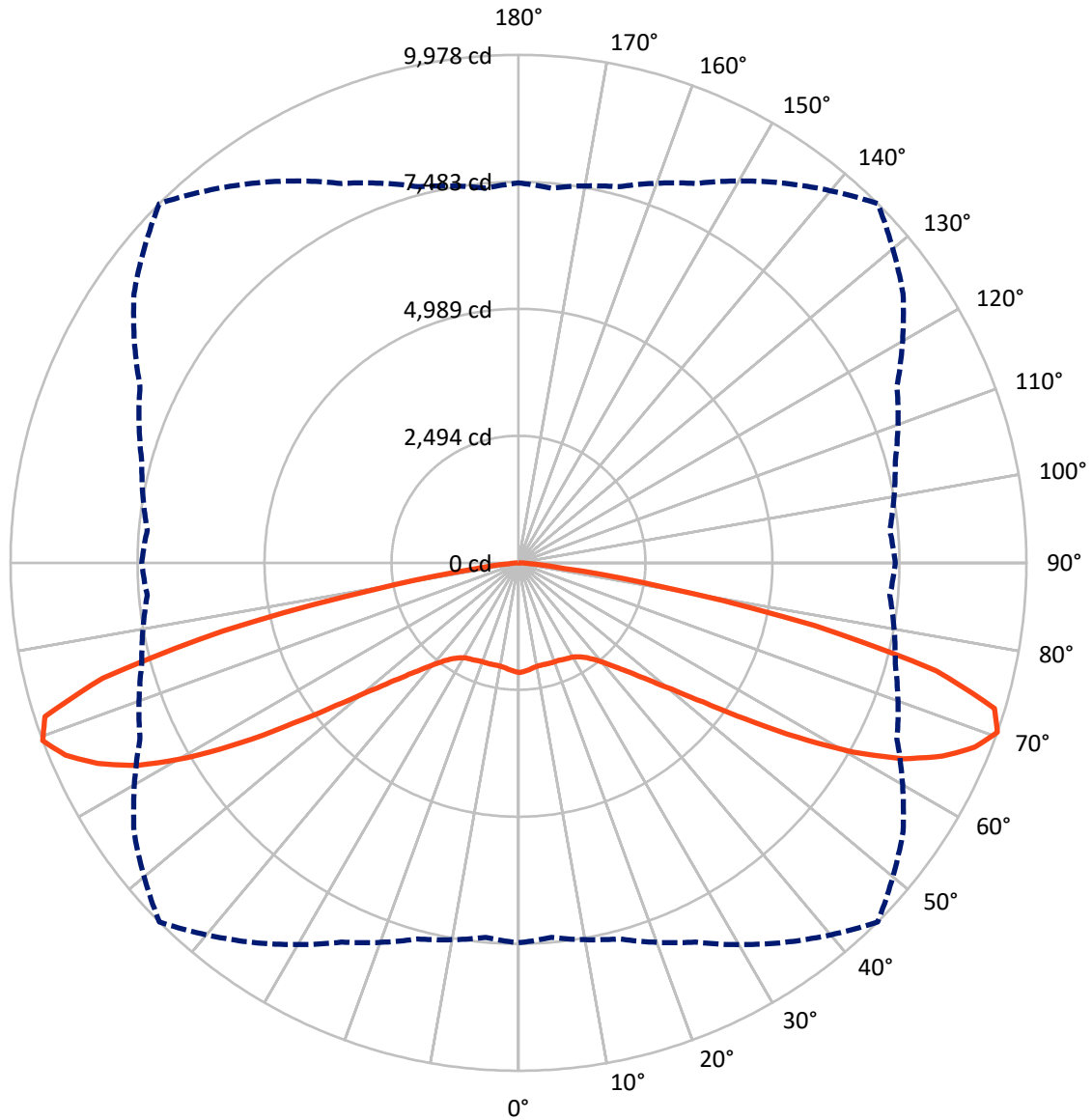
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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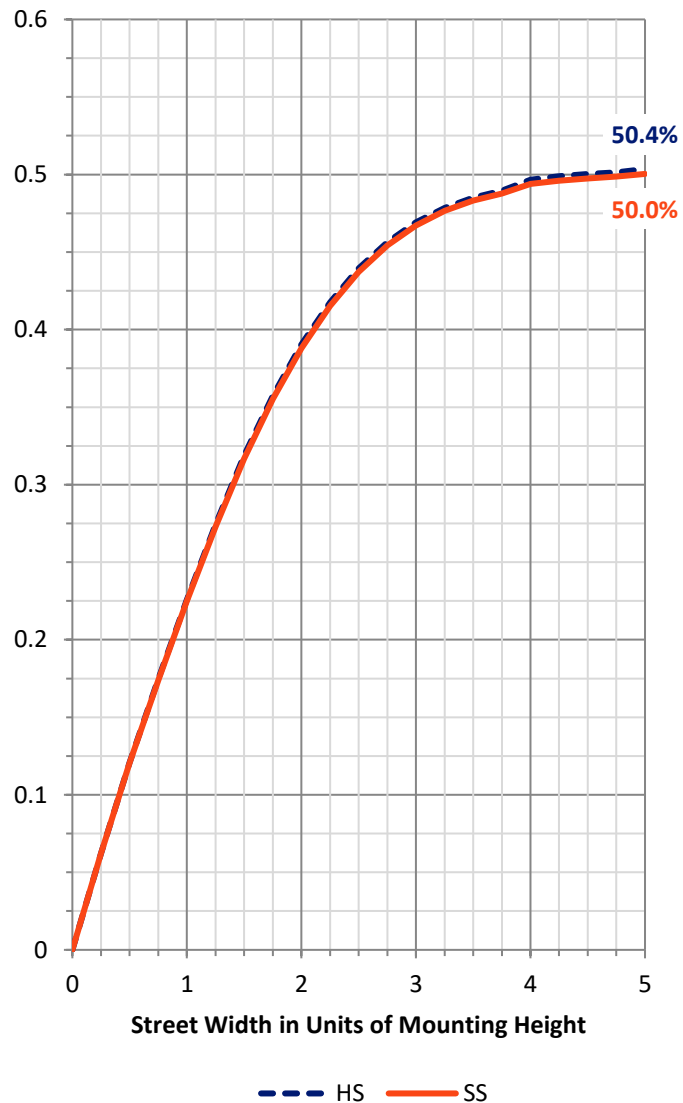
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11813.0 | 0.0 | 11813.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11813.0 | 0.0 | 11813.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23626.0 | 0.0 | 23626.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 200.5 | 0.8 |
| 10°-20° | 588.7 | 2.5 |
| 20°-30° | 979.6 | 4.1 |
| 30°-40° | 1481.5 | 6.3 |
| 40°-50° | 2461.9 | 10.4 |
| 50°-60° | 4645.5 | 19.7 |
| 60°-70° | 7844.0 | 33.2 |
| 70°-80° | 5154.3 | 21.8 |
| 80°-90° | 270.0 | 1.1 |
| 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° | 23626.0 | 100.0 |
| 0°-180° | 23626.0 | 100.0 |

Coefficient of Utilization



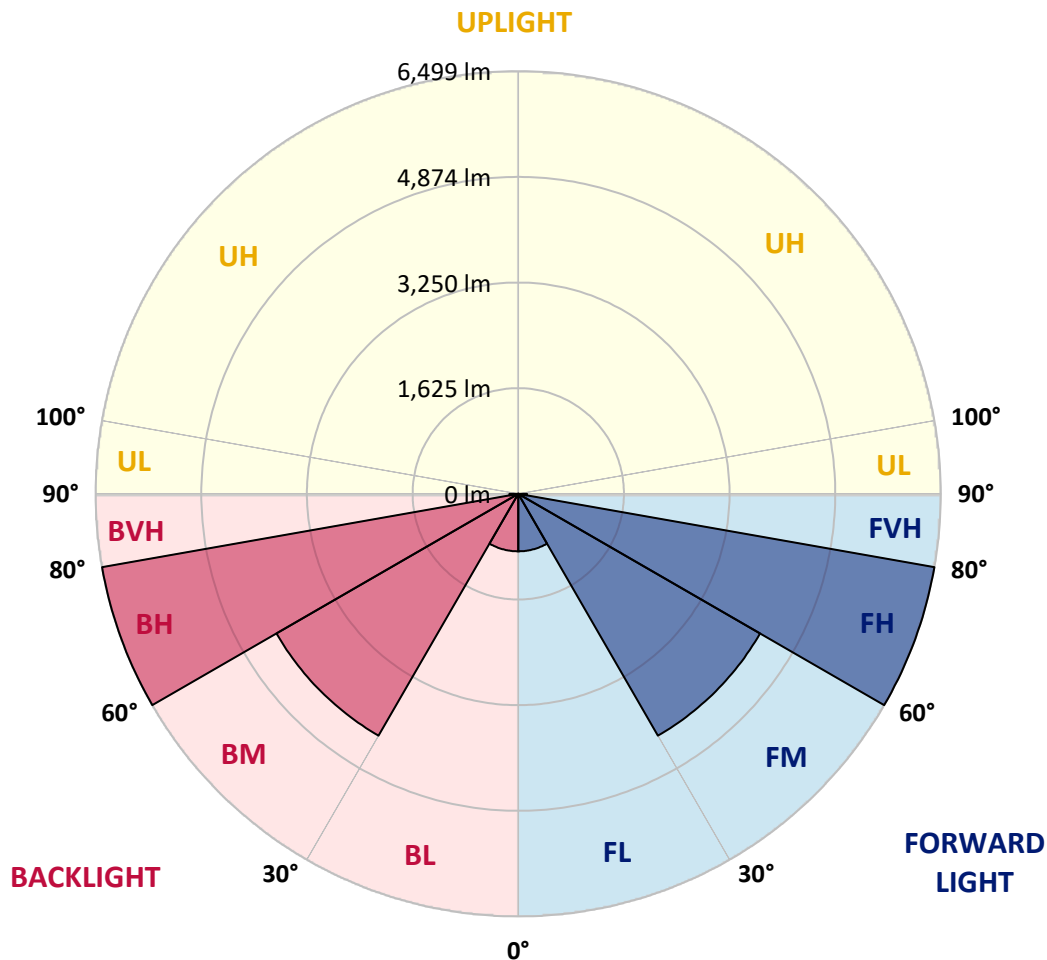
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 CATALOG NUMBER: GLAN-SB6A-850-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 884.4 | 3.7 | | | |
| FM (30°-60°) | 4294.4 | 18.2 | | | |
| FH (60°-80°) | 6499.2 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 135.0 | 0.6 | | | G2/225 |
| BL (0°-30°) | 884.4 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 4294.4 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 6499.2 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 135.0 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2155.2 | 2155.2 | 2155.2 | 2155.2 | 2155.2 | 2155.2 | 2155.2 | 2155.2 | 2155.2 | 2155.2 |
| 2.5° | 2141.7 | 2147.8 | 2145.3 | 2140.4 | 2140.4 | 2136.7 | 2140.4 | 2142.9 | 2146.6 | 2149.0 |
| 5° | 2113.4 | 2118.3 | 2117.1 | 2113.4 | 2114.6 | 2111.0 | 2113.4 | 2117.1 | 2119.6 | 2120.8 |
| 7.5° | 2088.9 | 2093.8 | 2091.3 | 2085.2 | 2085.2 | 2081.5 | 2082.7 | 2086.4 | 2090.1 | 2091.3 |
| 10° | 2082.7 | 2087.6 | 2080.3 | 2070.4 | 2066.7 | 2061.8 | 2063.1 | 2066.7 | 2074.1 | 2077.8 |
| 12.5° | 2085.2 | 2088.9 | 2081.5 | 2066.7 | 2063.1 | 2058.2 | 2058.2 | 2061.8 | 2071.7 | 2076.6 |
| 15° | 2092.5 | 2096.2 | 2085.2 | 2069.2 | 2065.5 | 2061.8 | 2060.6 | 2065.5 | 2076.6 | 2085.2 |
| 17.5° | 2106.0 | 2109.7 | 2092.5 | 2070.4 | 2065.5 | 2066.7 | 2065.5 | 2069.2 | 2086.4 | 2102.4 |
| 20° | 2118.3 | 2120.8 | 2097.5 | 2070.4 | 2065.5 | 2066.7 | 2065.5 | 2072.9 | 2095.0 | 2117.1 |
| 22.5° | 2122.0 | 2124.5 | 2102.4 | 2079.0 | 2075.3 | 2076.6 | 2075.3 | 2082.7 | 2103.6 | 2125.7 |
| 25° | 2123.2 | 2126.9 | 2109.7 | 2091.3 | 2097.5 | 2099.9 | 2097.5 | 2098.7 | 2114.6 | 2134.3 |
| 27.5° | 2141.7 | 2146.6 | 2130.6 | 2114.6 | 2118.3 | 2117.1 | 2120.8 | 2124.5 | 2136.7 | 2156.4 |
| 30° | 2179.7 | 2183.4 | 2169.9 | 2153.9 | 2151.5 | 2142.9 | 2153.9 | 2166.2 | 2179.7 | 2196.9 |
| 32.5° | 2242.4 | 2249.7 | 2232.5 | 2215.3 | 2204.3 | 2199.4 | 2208.0 | 2228.8 | 2247.3 | 2265.7 |
| 35° | 2346.7 | 2351.6 | 2335.7 | 2303.8 | 2284.1 | 2284.1 | 2291.5 | 2318.5 | 2348.0 | 2371.3 |
| 37.5° | 2494.1 | 2500.2 | 2472.0 | 2433.9 | 2404.5 | 2404.5 | 2414.3 | 2442.5 | 2486.7 | 2519.9 |
| 40° | 2673.4 | 2682.0 | 2646.4 | 2607.1 | 2578.8 | 2573.9 | 2586.2 | 2618.1 | 2659.9 | 2701.6 |
| 42.5° | 2889.5 | 2899.3 | 2852.7 | 2818.3 | 2796.2 | 2796.2 | 2802.3 | 2831.8 | 2869.9 | 2921.4 |
| 45° | 3165.8 | 3183.0 | 3119.2 | 3084.8 | 3063.9 | 3068.8 | 3072.5 | 3098.3 | 3132.7 | 3191.6 |
| 47.5° | 3494.9 | 3512.1 | 3444.6 | 3409.0 | 3405.3 | 3428.6 | 3413.9 | 3432.3 | 3450.7 | 3518.3 |
| 50° | 3868.2 | 3897.7 | 3851.1 | 3848.6 | 3856.0 | 3898.9 | 3864.6 | 3874.4 | 3853.5 | 3896.5 |
| 52.5° | 4325.1 | 4368.1 | 4359.5 | 4374.2 | 4456.5 | 4544.9 | 4466.3 | 4431.9 | 4353.3 | 4366.8 |
| 55° | 4878.9 | 4944.0 | 4956.3 | 5044.7 | 5231.3 | 5411.9 | 5244.9 | 5106.1 | 4939.1 | 4908.4 |
| 57.5° | 5508.9 | 5560.5 | 5619.4 | 5799.9 | 6148.7 | 6469.2 | 6148.7 | 5841.7 | 5578.9 | 5516.2 |
| 60° | 6186.7 | 6250.6 | 6307.1 | 6573.6 | 7091.8 | 7542.5 | 7082.0 | 6594.4 | 6246.9 | 6162.2 |
| 62.5° | 6915.0 | 6997.2 | 7036.5 | 7332.5 | 7936.7 | 8474.5 | 7945.3 | 7354.6 | 6969.0 | 6878.1 |
| 65° | 7613.7 | 7681.2 | 7725.4 | 8041.0 | 8618.2 | 9157.3 | 8657.5 | 8075.4 | 7678.8 | 7559.7 |
| 67.5° | 7939.1 | 7976.0 | 8084.0 | 8441.4 | 9050.5 | 9665.7 | 9153.6 | 8479.4 | 8036.1 | 7827.4 |
| 70° | 7462.6 | 7387.7 | 7648.1 | 8220.3 | 9102.0 | 9977.6 | 9219.9 | 8203.1 | 7660.4 | 7321.4 |
| 72.5° | 5766.8 | 5637.8 | 6089.7 | 7068.5 | 8512.6 | 9778.7 | 8571.5 | 7123.7 | 6370.9 | 5683.3 |
| 75° | 3137.6 | 2991.4 | 3615.3 | 4853.1 | 6788.5 | 8475.8 | 6944.4 | 4991.9 | 4025.4 | 3114.2 |
| 77.5° | 885.4 | 830.1 | 1333.6 | 2348.0 | 4083.2 | 5951.0 | 4240.3 | 2399.5 | 1581.7 | 938.2 |
| 80° | 271.4 | 262.8 | 356.1 | 707.3 | 1734.0 | 2850.2 | 1666.4 | 715.9 | 453.1 | 286.1 |
| 82.5° | 160.9 | 147.4 | 176.8 | 257.9 | 442.1 | 895.2 | 429.8 | 268.9 | 216.1 | 144.9 |
| 85° | 92.1 | 86.0 | 104.4 | 125.3 | 148.6 | 190.3 | 124.0 | 127.7 | 115.4 | 77.4 |
| 87.5° | 38.1 | 34.4 | 40.5 | 39.3 | 34.4 | 44.2 | 33.2 | 39.3 | 46.7 | 30.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2155.2 |
| 2147.8 |
| 2120.8 |
| 2091.3 |
| 2077.8 |
| 2077.8 |
| 2086.4 |
| 2102.4 |
| 2118.3 |
| 2125.7 |
| 2133.1 |
| 2151.5 |
| 2193.2 |
| 2258.3 |
| 2362.7 |
| 2507.6 |
| 2688.1 |
| 2917.8 |
| 3189.2 |
| 3498.6 |
| 3870.7 |
| 4321.4 |
| 4860.5 |
| 5472.0 |
| 6088.5 |
| 6804.4 |
| 7500.7 |
| 7829.8 |
| 7402.5 |
| 5853.9 |
| 3316.9 |
| 1042.6 |
| 302.1 |
| 157.2 |
| 81.0 |
| 28.2 |
| 0.0 |

OF REPORT)