

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: P884502

Luminaire Tested: **NVN-SB5B-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24387 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

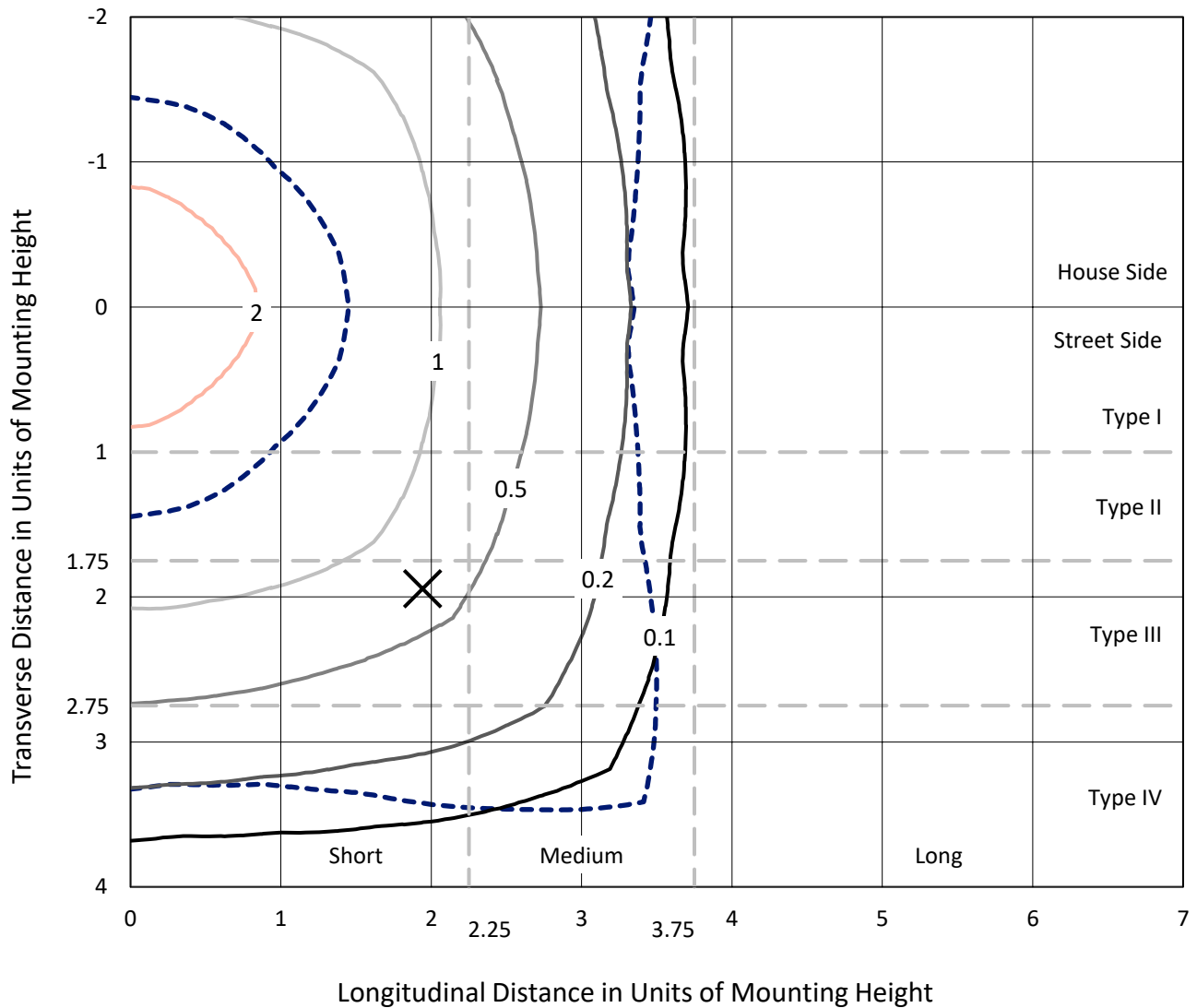
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

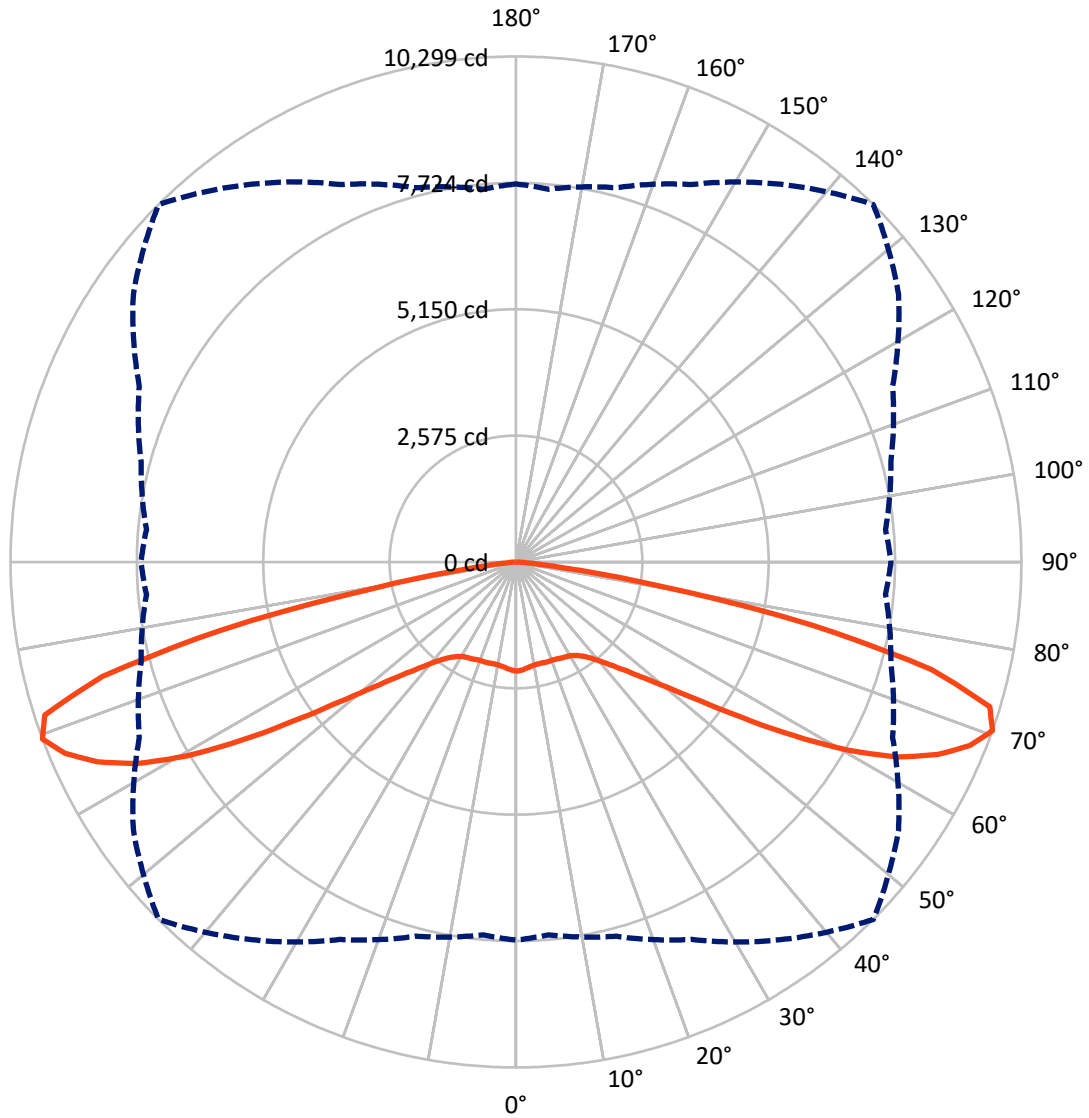
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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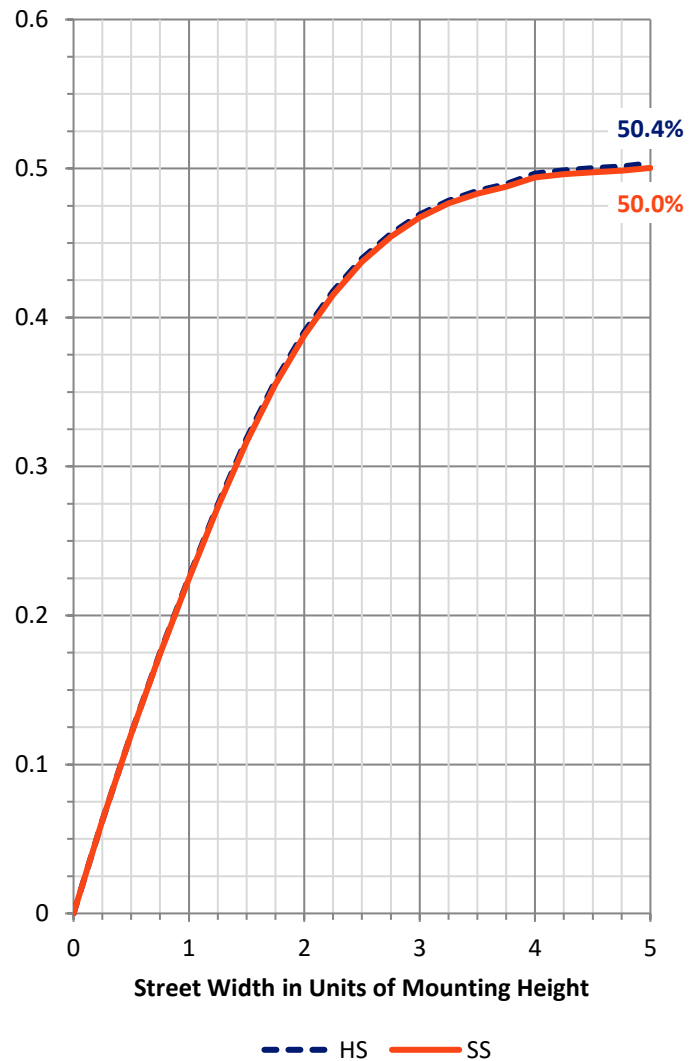
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12193.5 | 0.0 | 12193.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12193.5 | 0.0 | 12193.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 24387.0 | 0.0 | 24387.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 206.9 | 0.8 |
| 10°-20° | 607.6 | 2.5 |
| 20°-30° | 1011.2 | 4.1 |
| 30°-40° | 1529.2 | 6.3 |
| 40°-50° | 2541.2 | 10.4 |
| 50°-60° | 4795.1 | 19.7 |
| 60°-70° | 8096.7 | 33.2 |
| 70°-80° | 5320.4 | 21.8 |
| 80°-90° | 278.7 | 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° | 24387.0 | 100.0 |
| 0°-180° | 24387.0 | 100.0 |



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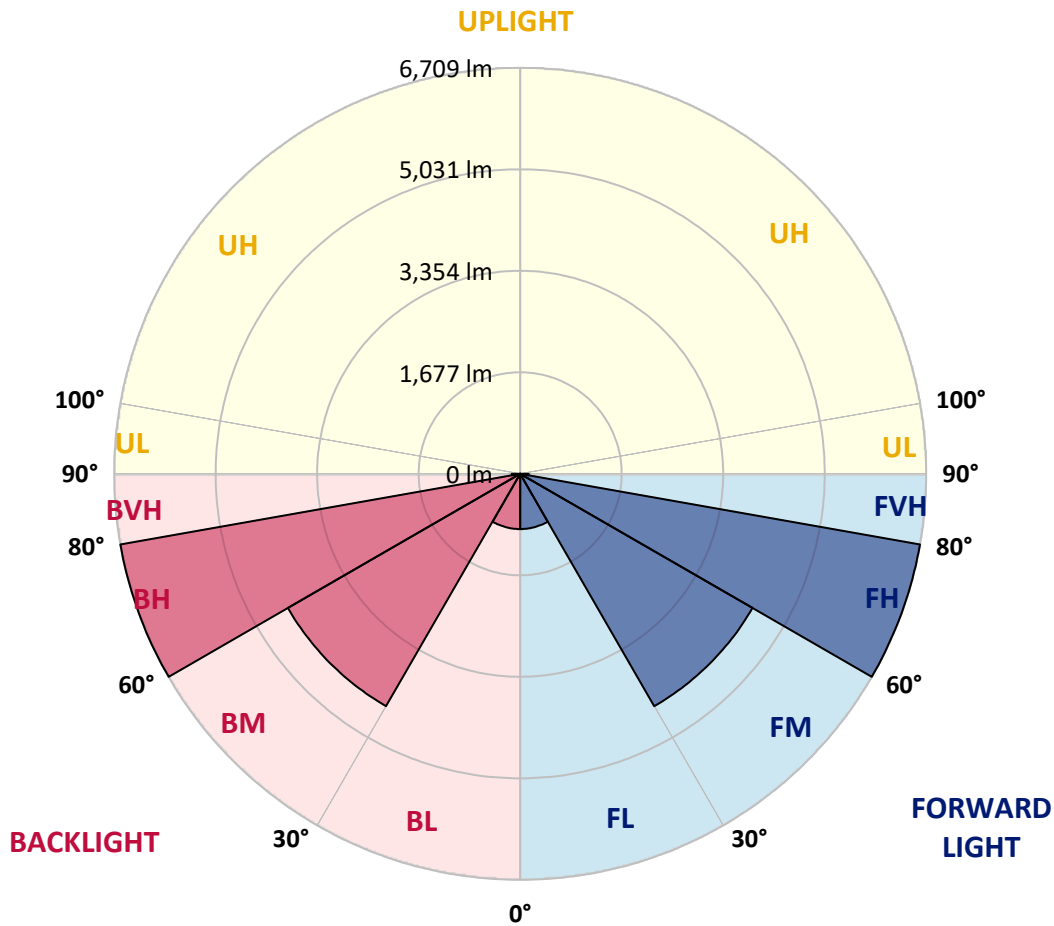
CATALOG NUMBER: NVN-SB5B-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 912.9 | 3.7 | | | |
| FM | (30°-60°) | 4432.7 | 18.2 | | | |
| FH | (60°-80°) | 6708.5 | 27.5 | | | G3/7500 |
| FVH | (80°-90°) | 139.4 | 0.6 | | | G2/225 |
| BL | (0°-30°) | 912.9 | 3.7 | B2/1000 | | |
| BM | (30°-60°) | 4432.7 | 18.2 | B3/5000 | | |
| BH | (60°-80°) | 6708.5 | 27.5 | B5 | | G3/7500 |
| BVH | (80°-90°) | 139.4 | 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° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 2224.6 | 2224.6 | 2224.6 | 2224.6 | 2224.6 | 2224.6 | 2224.6 | 2224.6 | 2224.6 | 2224.6 | 2224.6 |
| 2.5° | 2210.6 | 2217.0 | 2214.4 | 2209.4 | 2209.4 | 2205.6 | 2209.4 | 2211.9 | 2215.7 | 2218.2 | 2217.0 |
| 5° | 2181.5 | 2186.6 | 2185.3 | 2181.5 | 2182.8 | 2179.0 | 2181.5 | 2185.3 | 2187.8 | 2189.1 | 2189.1 |
| 7.5° | 2156.1 | 2161.2 | 2158.7 | 2152.3 | 2152.3 | 2148.5 | 2149.8 | 2153.6 | 2157.4 | 2158.7 | 2158.7 |
| 10° | 2149.8 | 2154.9 | 2147.3 | 2137.1 | 2133.3 | 2128.3 | 2129.5 | 2133.3 | 2140.9 | 2144.7 | 2144.7 |
| 12.5° | 2152.3 | 2156.1 | 2148.5 | 2133.3 | 2129.5 | 2124.4 | 2124.4 | 2128.3 | 2138.4 | 2143.5 | 2144.7 |
| 15° | 2159.9 | 2163.7 | 2152.3 | 2135.9 | 2132.1 | 2128.3 | 2127.0 | 2132.1 | 2143.5 | 2152.3 | 2153.6 |
| 17.5° | 2173.9 | 2177.7 | 2159.9 | 2137.1 | 2132.1 | 2133.3 | 2132.1 | 2135.9 | 2153.6 | 2170.1 | 2170.1 |
| 20° | 2186.6 | 2189.1 | 2165.0 | 2137.1 | 2132.1 | 2133.3 | 2132.1 | 2139.7 | 2162.5 | 2185.3 | 2186.6 |
| 22.5° | 2190.4 | 2192.9 | 2170.1 | 2146.0 | 2142.2 | 2143.5 | 2142.2 | 2149.8 | 2171.3 | 2194.2 | 2194.2 |
| 25° | 2191.6 | 2195.4 | 2177.7 | 2158.7 | 2165.0 | 2167.5 | 2165.0 | 2166.3 | 2182.8 | 2203.0 | 2201.8 |
| 27.5° | 2210.6 | 2215.7 | 2199.2 | 2182.8 | 2186.6 | 2185.3 | 2189.1 | 2192.9 | 2205.6 | 2225.9 | 2220.8 |
| 30° | 2249.9 | 2253.7 | 2239.8 | 2223.3 | 2220.8 | 2211.9 | 2223.3 | 2236.0 | 2249.9 | 2267.7 | 2263.9 |
| 32.5° | 2314.6 | 2322.2 | 2304.4 | 2286.7 | 2275.3 | 2270.2 | 2279.1 | 2300.6 | 2319.7 | 2338.7 | 2331.1 |
| 35° | 2422.3 | 2427.4 | 2410.9 | 2378.0 | 2357.7 | 2357.7 | 2365.3 | 2393.2 | 2423.6 | 2447.7 | 2438.8 |
| 37.5° | 2574.4 | 2580.8 | 2551.6 | 2512.3 | 2481.9 | 2481.9 | 2492.0 | 2521.2 | 2566.8 | 2601.1 | 2588.4 |
| 40° | 2759.5 | 2768.4 | 2731.6 | 2691.1 | 2661.9 | 2656.8 | 2669.5 | 2702.5 | 2745.6 | 2788.7 | 2774.7 |
| 42.5° | 2982.6 | 2992.7 | 2944.6 | 2909.1 | 2886.3 | 2886.3 | 2892.6 | 2923.0 | 2962.3 | 3015.5 | 3011.7 |
| 45° | 3267.8 | 3285.5 | 3219.6 | 3184.1 | 3162.6 | 3167.7 | 3171.5 | 3198.1 | 3233.6 | 3294.4 | 3291.9 |
| 47.5° | 3607.5 | 3625.3 | 3555.5 | 3518.8 | 3515.0 | 3539.1 | 3523.8 | 3542.9 | 3561.9 | 3631.6 | 3611.3 |
| 50° | 3992.8 | 4023.3 | 3975.1 | 3972.6 | 3980.2 | 4024.5 | 3989.0 | 3999.2 | 3977.6 | 4022.0 | 3995.4 |
| 52.5° | 4464.4 | 4508.7 | 4499.9 | 4515.1 | 4600.0 | 4691.3 | 4610.2 | 4574.7 | 4493.5 | 4507.5 | 4460.6 |
| 55° | 5036.1 | 5103.2 | 5115.9 | 5207.2 | 5399.8 | 5586.2 | 5413.8 | 5270.6 | 5098.2 | 5066.5 | 5017.0 |
| 57.5° | 5686.3 | 5739.6 | 5800.4 | 5986.7 | 6346.7 | 6677.6 | 6346.7 | 6029.8 | 5758.6 | 5693.9 | 5648.3 |
| 60° | 6386.0 | 6451.9 | 6510.2 | 6785.3 | 7320.2 | 7785.4 | 7310.1 | 6806.9 | 6448.1 | 6360.7 | 6284.6 |
| 62.5° | 7137.7 | 7222.6 | 7263.2 | 7568.7 | 8192.3 | 8747.5 | 8201.2 | 7591.5 | 7193.5 | 7099.7 | 7023.6 |
| 65° | 7858.9 | 7928.7 | 7974.3 | 8300.0 | 8895.8 | 9452.3 | 8936.4 | 8335.5 | 7926.1 | 7803.2 | 7742.3 |
| 67.5° | 8194.8 | 8232.9 | 8344.4 | 8713.3 | 9342.0 | 9977.0 | 9448.5 | 8752.6 | 8295.0 | 8079.5 | 8082.0 |
| 70° | 7703.0 | 7625.7 | 7894.4 | 8485.1 | 9395.2 | 10299.0 | 9516.9 | 8467.4 | 7907.1 | 7557.3 | 7640.9 |
| 72.5° | 5952.5 | 5819.4 | 6285.9 | 7296.1 | 8786.8 | 10093.7 | 8847.6 | 7353.2 | 6576.2 | 5866.3 | 6042.5 |
| 75° | 3238.6 | 3087.8 | 3731.7 | 5009.4 | 7007.1 | 8748.8 | 7168.1 | 5152.7 | 4155.1 | 3214.6 | 3423.7 |
| 77.5° | 913.9 | 856.9 | 1376.6 | 2423.6 | 4214.7 | 6142.6 | 4376.9 | 2476.8 | 1632.6 | 968.4 | 1076.2 |
| 80° | 280.1 | 271.3 | 367.6 | 730.1 | 1789.8 | 2942.0 | 1720.1 | 739.0 | 467.7 | 295.3 | 311.8 |
| 82.5° | 166.1 | 152.1 | 182.5 | 266.2 | 456.3 | 924.1 | 443.6 | 277.6 | 223.1 | 149.6 | 162.2 |
| 85° | 95.1 | 88.7 | 107.7 | 129.3 | 153.4 | 196.5 | 128.0 | 131.8 | 119.2 | 79.9 | 83.7 |
| 87.5° | 39.3 | 35.5 | 41.8 | 40.6 | 35.5 | 45.6 | 34.2 | 40.6 | 48.2 | 31.7 | 29.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)