

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: P883782

Luminaire Tested: **NVN-SB4B-750-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883782
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-SB4B-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 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: 24887 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

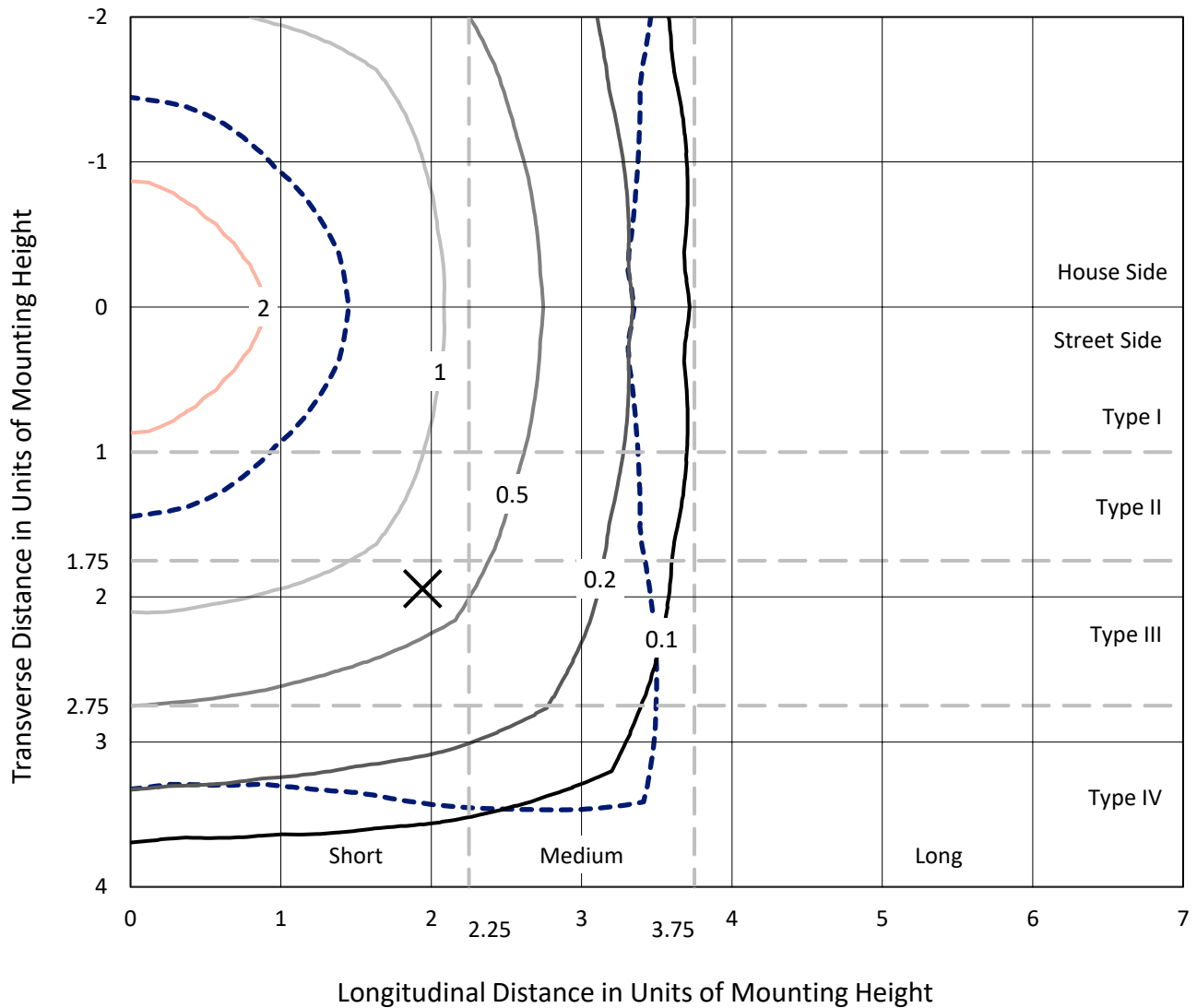
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

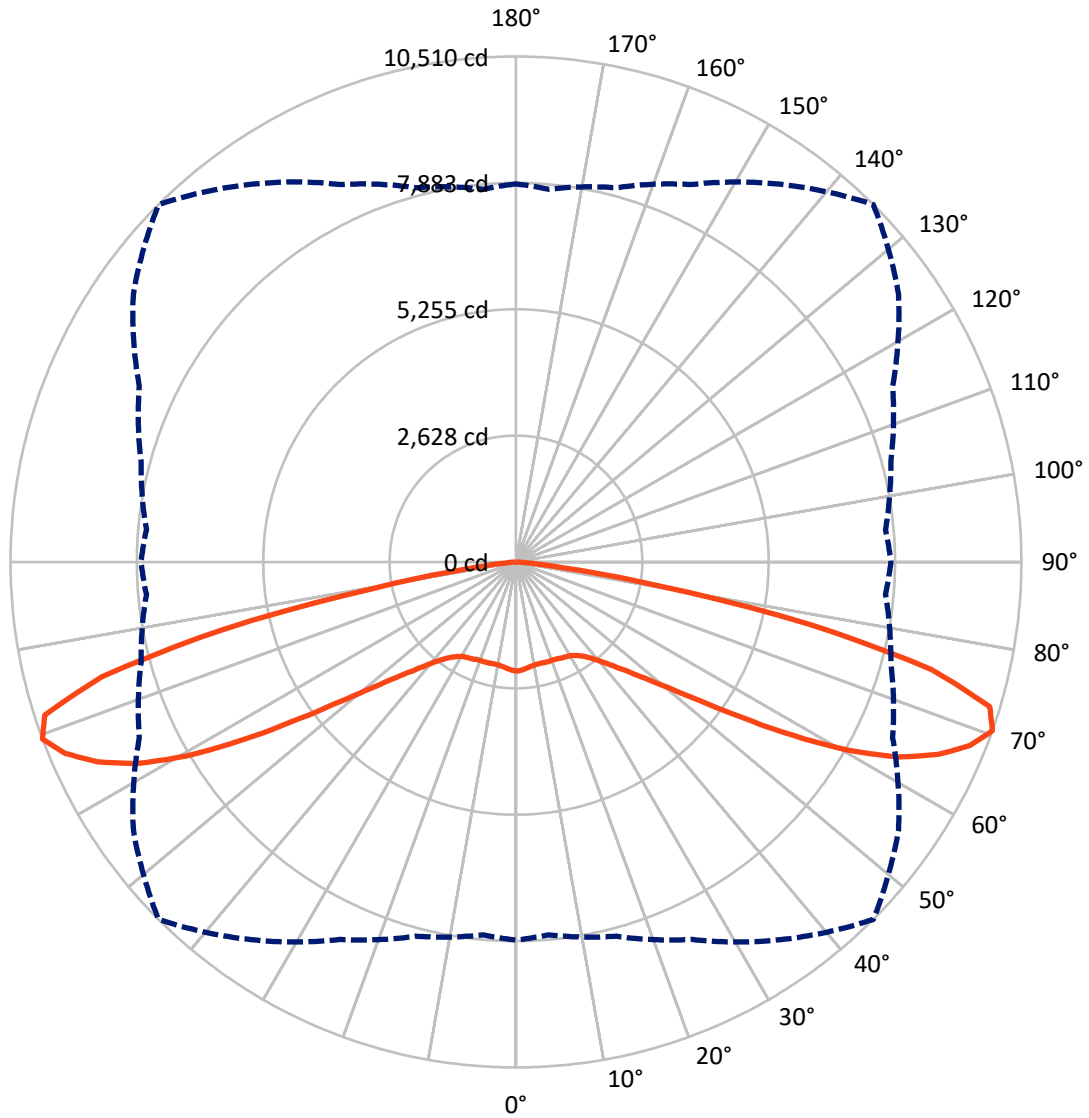
✕ Max cd
 - - - 1/2 Max cd



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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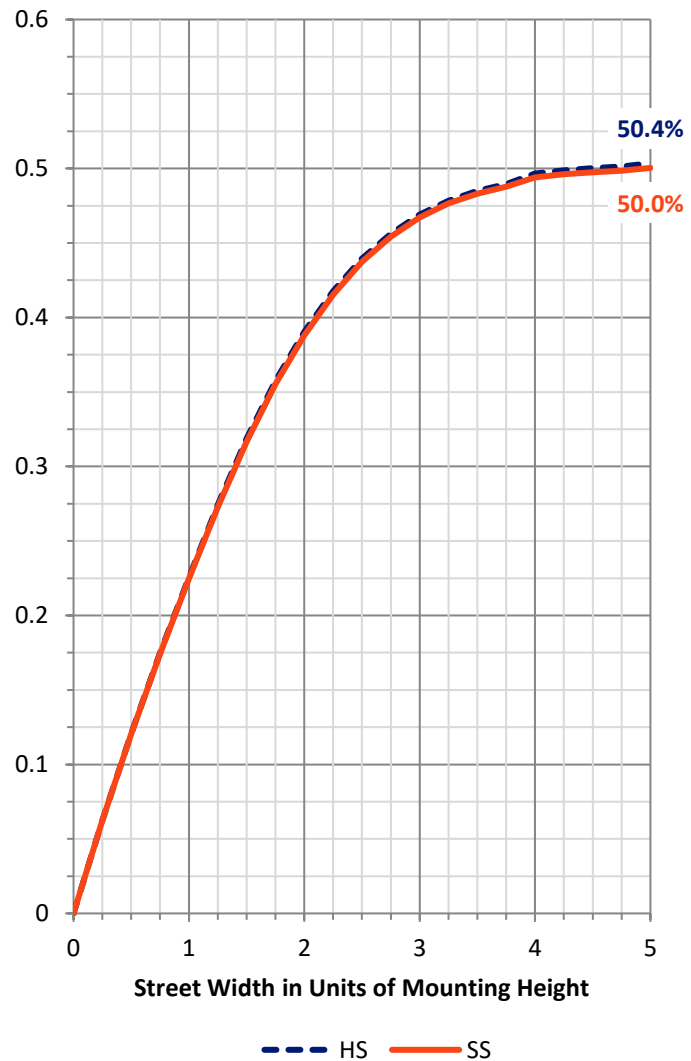
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12443.5 | 0.0 | 12443.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12443.5 | 0.0 | 12443.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 24887.0 | 0.0 | 24887.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 211.2 | 0.8 |
| 10°-20° | 620.1 | 2.5 |
| 20°-30° | 1031.9 | 4.1 |
| 30°-40° | 1560.6 | 6.3 |
| 40°-50° | 2593.3 | 10.4 |
| 50°-60° | 4893.4 | 19.7 |
| 60°-70° | 8262.7 | 33.2 |
| 70°-80° | 5429.4 | 21.8 |
| 80°-90° | 284.4 | 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° | 24887.0 | 100.0 |
| 0°-180° | 24887.0 | 100.0 |

Coefficient of Utilization



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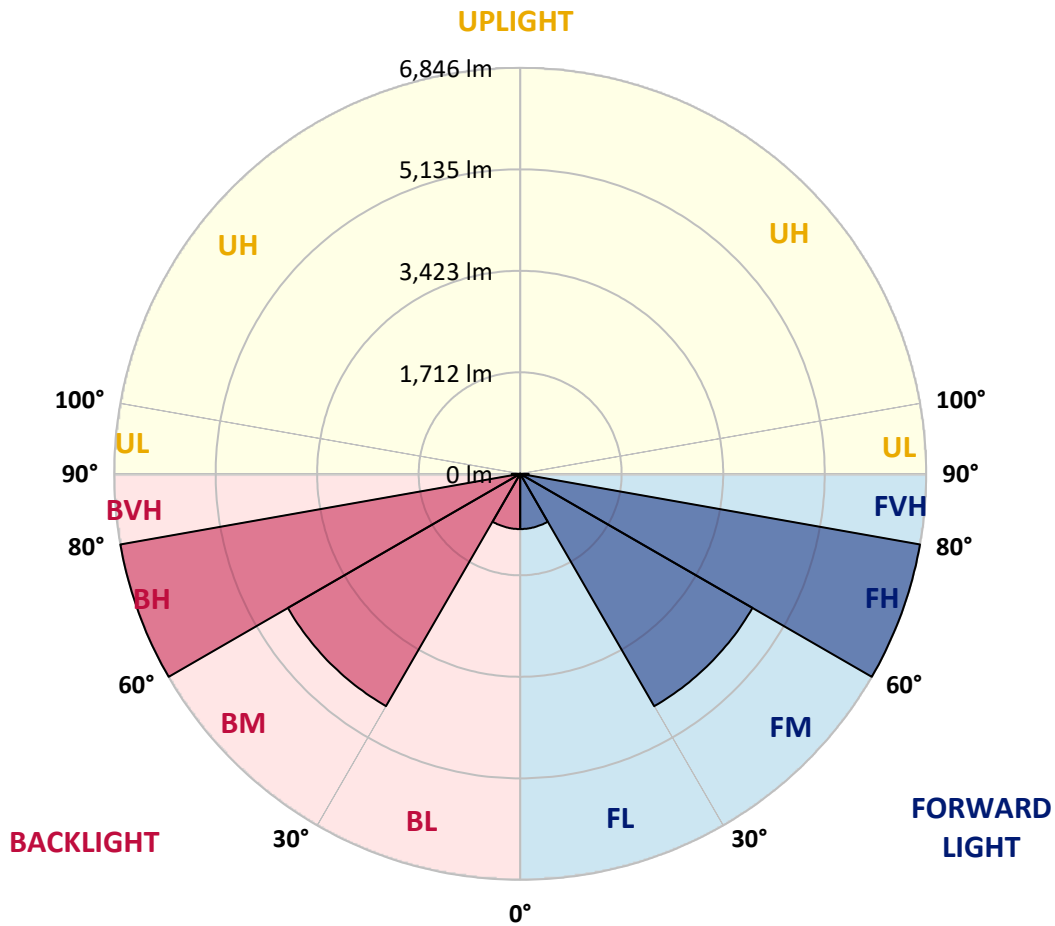
CATALOG NUMBER: NVN-SB4B-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 931.6 | 3.7 | | | |
| FM (30°-60°) | 4523.6 | 18.2 | | | |
| FH (60°-80°) | 6846.1 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 142.2 | 0.6 | | | G2/225 |
| BL (0°-30°) | 931.6 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 4523.6 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 6846.1 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 142.2 | 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° | 2270.2 | 2270.2 | 2270.2 | 2270.2 | 2270.2 | 2270.2 | 2270.2 | 2270.2 | 2270.2 | 2270.2 | 2270.2 |
| 2.5° | 2256.0 | 2262.4 | 2259.8 | 2254.7 | 2254.7 | 2250.8 | 2254.7 | 2257.3 | 2261.1 | 2263.7 | 2262.4 |
| 5° | 2226.2 | 2231.4 | 2230.1 | 2226.2 | 2227.5 | 2223.6 | 2226.2 | 2230.1 | 2232.7 | 2234.0 | 2234.0 |
| 7.5° | 2200.3 | 2205.5 | 2202.9 | 2196.5 | 2196.5 | 2192.6 | 2193.9 | 2197.8 | 2201.6 | 2202.9 | 2202.9 |
| 10° | 2193.9 | 2199.0 | 2191.3 | 2180.9 | 2177.1 | 2171.9 | 2173.2 | 2177.1 | 2184.8 | 2188.7 | 2188.7 |
| 12.5° | 2196.5 | 2200.3 | 2192.6 | 2177.1 | 2173.2 | 2168.0 | 2168.0 | 2171.9 | 2182.2 | 2187.4 | 2188.7 |
| 15° | 2204.2 | 2208.1 | 2196.5 | 2179.6 | 2175.8 | 2171.9 | 2170.6 | 2175.8 | 2187.4 | 2196.5 | 2197.8 |
| 17.5° | 2218.5 | 2222.3 | 2204.2 | 2180.9 | 2175.8 | 2177.1 | 2175.8 | 2179.6 | 2197.8 | 2214.6 | 2214.6 |
| 20° | 2231.4 | 2234.0 | 2209.4 | 2180.9 | 2175.8 | 2177.1 | 2175.8 | 2183.5 | 2206.8 | 2230.1 | 2231.4 |
| 22.5° | 2235.3 | 2237.9 | 2214.6 | 2190.0 | 2186.1 | 2187.4 | 2186.1 | 2193.9 | 2215.9 | 2239.2 | 2239.2 |
| 25° | 2236.6 | 2240.4 | 2222.3 | 2202.9 | 2209.4 | 2212.0 | 2209.4 | 2210.7 | 2227.5 | 2248.2 | 2246.9 |
| 27.5° | 2256.0 | 2261.1 | 2244.3 | 2227.5 | 2231.4 | 2230.1 | 2234.0 | 2237.9 | 2250.8 | 2271.5 | 2266.3 |
| 30° | 2296.1 | 2299.9 | 2285.7 | 2268.9 | 2266.3 | 2257.3 | 2268.9 | 2281.8 | 2296.1 | 2314.2 | 2310.3 |
| 32.5° | 2362.0 | 2369.8 | 2351.7 | 2333.6 | 2321.9 | 2316.8 | 2325.8 | 2347.8 | 2367.2 | 2386.6 | 2378.9 |
| 35° | 2472.0 | 2477.2 | 2460.3 | 2426.7 | 2406.0 | 2406.0 | 2413.8 | 2442.2 | 2473.3 | 2497.9 | 2488.8 |
| 37.5° | 2627.2 | 2633.7 | 2603.9 | 2563.8 | 2532.8 | 2532.8 | 2543.1 | 2572.9 | 2619.5 | 2654.4 | 2641.4 |
| 40° | 2816.1 | 2825.1 | 2787.6 | 2746.2 | 2716.5 | 2711.3 | 2724.2 | 2757.9 | 2801.8 | 2845.8 | 2831.6 |
| 42.5° | 3043.7 | 3054.1 | 3004.9 | 2968.7 | 2945.4 | 2945.4 | 2951.9 | 2982.9 | 3023.0 | 3077.4 | 3073.5 |
| 45° | 3334.8 | 3352.9 | 3285.6 | 3249.4 | 3227.4 | 3232.6 | 3236.5 | 3263.6 | 3299.9 | 3362.0 | 3359.4 |
| 47.5° | 3681.5 | 3699.6 | 3628.4 | 3590.9 | 3587.0 | 3611.6 | 3596.1 | 3615.5 | 3634.9 | 3706.0 | 3685.3 |
| 50° | 4074.7 | 4105.8 | 4056.6 | 4054.0 | 4061.8 | 4107.0 | 4070.8 | 4081.2 | 4059.2 | 4104.5 | 4077.3 |
| 52.5° | 4555.9 | 4601.2 | 4592.1 | 4607.7 | 4694.3 | 4787.5 | 4704.7 | 4668.5 | 4585.7 | 4599.9 | 4552.0 |
| 55° | 5139.3 | 5207.9 | 5220.8 | 5313.9 | 5510.6 | 5700.7 | 5524.8 | 5378.6 | 5202.7 | 5170.4 | 5119.9 |
| 57.5° | 5802.9 | 5857.2 | 5919.3 | 6109.5 | 6476.8 | 6814.5 | 6476.8 | 6153.5 | 5876.6 | 5810.7 | 5764.1 |
| 60° | 6516.9 | 6584.2 | 6643.7 | 6924.4 | 7470.3 | 7945.0 | 7460.0 | 6946.4 | 6580.3 | 6491.1 | 6413.5 |
| 62.5° | 7284.0 | 7370.7 | 7412.1 | 7723.8 | 8360.3 | 8926.8 | 8369.3 | 7747.1 | 7340.9 | 7245.2 | 7167.6 |
| 65° | 8020.1 | 8091.2 | 8137.8 | 8470.2 | 9078.2 | 9646.1 | 9119.6 | 8506.4 | 8088.6 | 7963.1 | 7901.1 |
| 67.5° | 8362.9 | 8401.7 | 8515.5 | 8891.9 | 9533.5 | 10181.6 | 9642.2 | 8932.0 | 8465.0 | 8245.1 | 8247.7 |
| 70° | 7861.0 | 7782.0 | 8056.3 | 8659.1 | 9587.9 | 10510.2 | 9712.0 | 8641.0 | 8069.2 | 7712.2 | 7797.6 |
| 72.5° | 6074.6 | 5938.7 | 6414.8 | 7445.7 | 8966.9 | 10300.6 | 9029.0 | 7503.9 | 6711.0 | 5986.6 | 6166.4 |
| 75° | 3305.0 | 3151.1 | 3808.2 | 5112.1 | 7150.8 | 8928.1 | 7315.1 | 5258.3 | 4240.3 | 3280.5 | 3493.9 |
| 77.5° | 932.7 | 874.4 | 1404.8 | 2473.3 | 4301.1 | 6268.6 | 4466.7 | 2527.6 | 1666.1 | 988.3 | 1098.2 |
| 80° | 285.9 | 276.8 | 375.1 | 745.1 | 1826.5 | 3002.3 | 1755.4 | 754.1 | 477.3 | 301.4 | 318.2 |
| 82.5° | 169.5 | 155.2 | 186.3 | 271.6 | 465.7 | 943.0 | 452.7 | 283.3 | 227.7 | 152.6 | 165.6 |
| 85° | 97.0 | 90.5 | 110.0 | 131.9 | 156.5 | 200.5 | 130.6 | 134.5 | 121.6 | 81.5 | 85.4 |
| 87.5° | 40.1 | 36.2 | 42.7 | 41.4 | 36.2 | 46.6 | 34.9 | 41.4 | 49.2 | 32.3 | 29.8 |
| 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)