

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: P963625

Luminaire Tested: **NVN-SB3A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12353.3 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

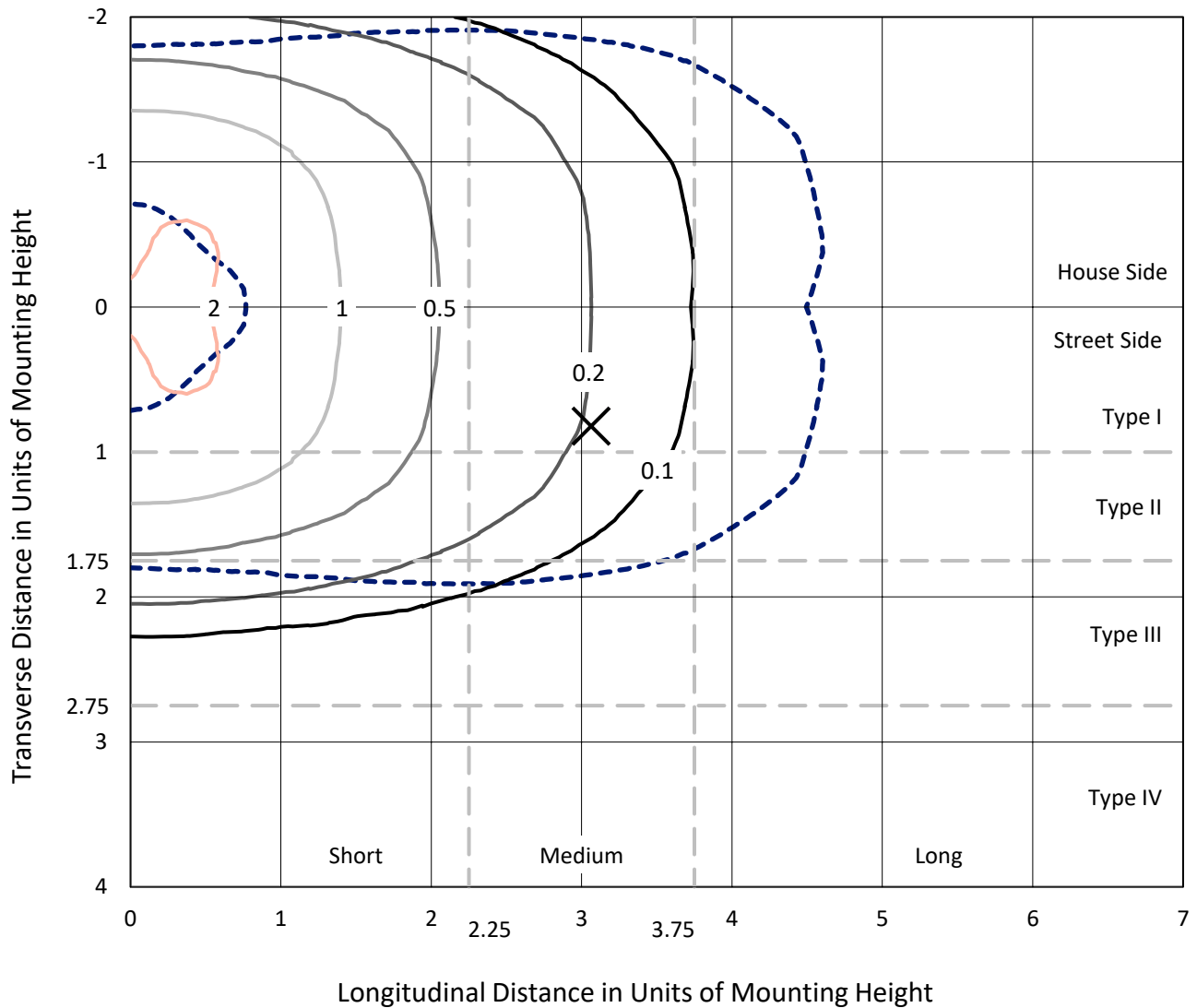
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

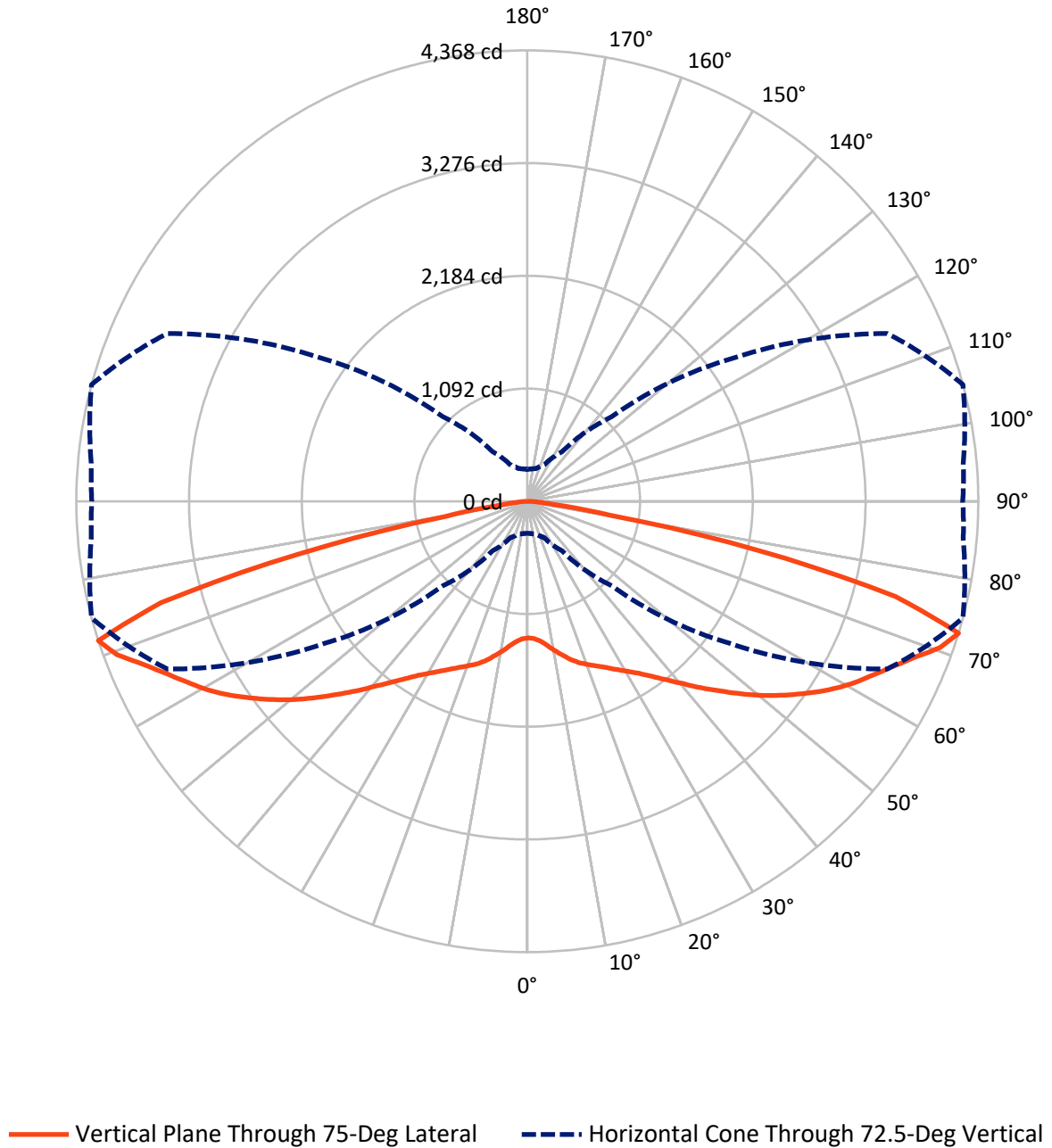
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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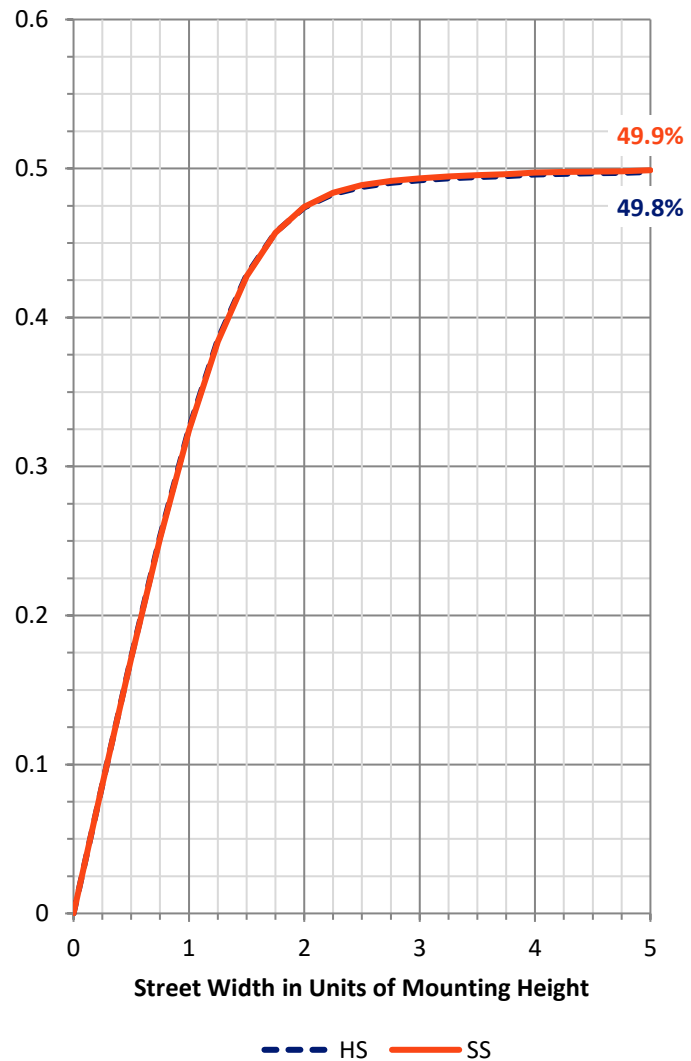
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6176.7 | 0.0 | 6176.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6176.7 | 0.0 | 6176.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12353.3 | 0.0 | 12353.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 129.6 | 1.0 |
| 10°-20° | 427.5 | 3.5 |
| 20°-30° | 826.1 | 6.7 |
| 30°-40° | 1394.9 | 11.3 |
| 40°-50° | 2212.2 | 17.9 |
| 50°-60° | 2961.9 | 24.0 |
| 60°-70° | 2818.8 | 22.8 |
| 70°-80° | 1470.9 | 11.9 |
| 80°-90° | 111.3 | 0.9 |
| 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° | 12353.3 | 100.0 |
| 0°-180° | 12353.3 | 100.0 |

Coefficient of Utilization



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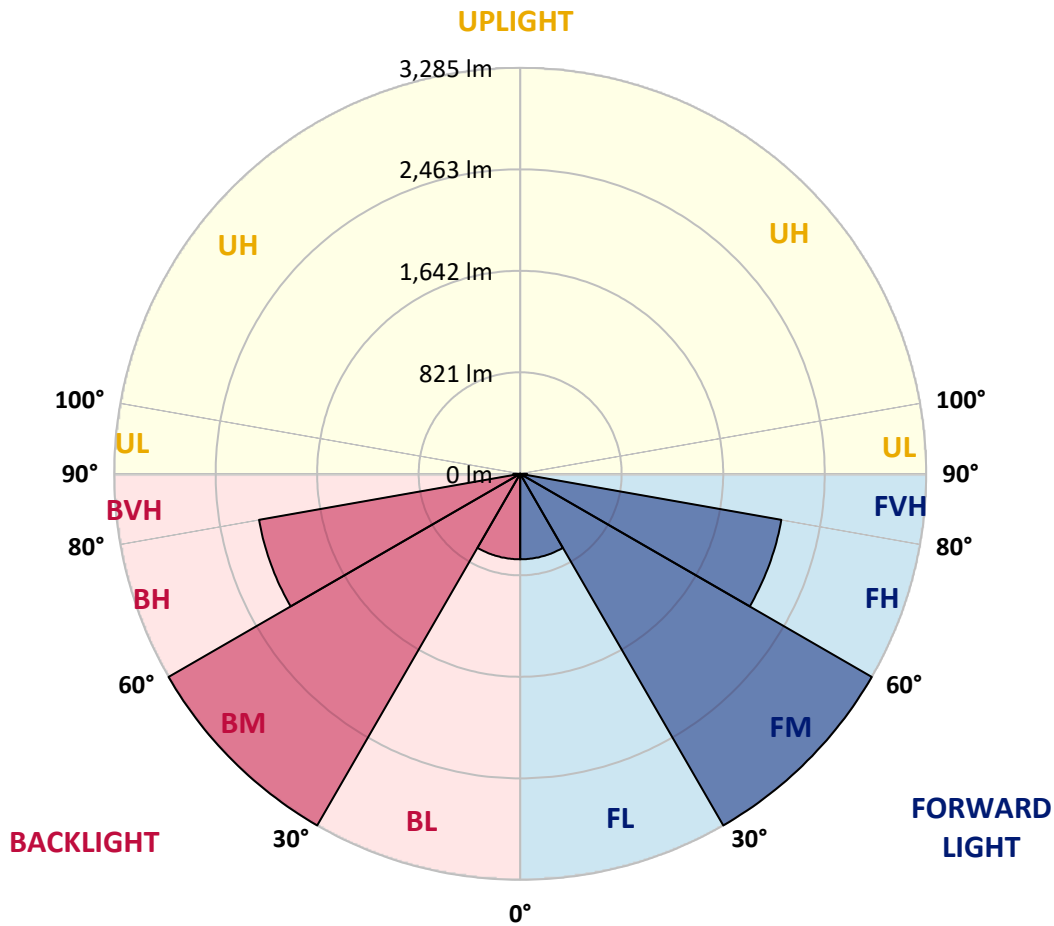
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 691.6 | 5.6 | | | |
| FM (30°-60°) | 3284.5 | 26.6 | | | |
| FH (60°-80°) | 2144.8 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 55.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 691.6 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 3284.5 | 26.6 | B3/5000 | | |
| BH (60°-80°) | 2144.8 | 17.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 55.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1323.3 | 1323.3 | 1323.3 | 1323.3 | 1323.3 | 1323.3 | 1323.3 | 1323.3 | 1323.3 | 1323.3 | 1323.3 |
| 2.5° | 1323.3 | 1322.0 | 1323.3 | 1324.5 | 1323.9 | 1323.9 | 1327.1 | 1328.9 | 1332.7 | 1332.1 | 1331.5 |
| 5° | 1314.5 | 1313.8 | 1318.9 | 1324.5 | 1328.9 | 1336.5 | 1345.9 | 1352.9 | 1361.7 | 1363.7 | 1363.7 |
| 7.5° | 1310.1 | 1308.1 | 1316.9 | 1327.1 | 1340.9 | 1359.9 | 1378.1 | 1397.1 | 1412.1 | 1417.3 | 1418.5 |
| 10° | 1313.1 | 1313.8 | 1325.7 | 1344.7 | 1366.7 | 1393.3 | 1419.1 | 1451.3 | 1472.7 | 1477.7 | 1482.9 |
| 12.5° | 1327.7 | 1326.5 | 1346.6 | 1376.9 | 1407.1 | 1440.5 | 1470.9 | 1506.1 | 1529.5 | 1541.5 | 1546.5 |
| 15° | 1354.1 | 1351.7 | 1380.1 | 1424.9 | 1468.9 | 1508.1 | 1532.7 | 1566.1 | 1593.3 | 1608.3 | 1614.1 |
| 17.5° | 1385.7 | 1386.9 | 1424.1 | 1482.3 | 1540.3 | 1584.3 | 1607.7 | 1624.7 | 1645.5 | 1658.8 | 1665.1 |
| 20° | 1441.3 | 1443.7 | 1485.3 | 1554.1 | 1620.3 | 1670.7 | 1689.7 | 1683.4 | 1689.1 | 1699.1 | 1706.7 |
| 22.5° | 1515.7 | 1516.9 | 1563.5 | 1637.9 | 1707.3 | 1762.9 | 1775.5 | 1749.7 | 1733.9 | 1740.8 | 1745.9 |
| 25° | 1602.1 | 1610.3 | 1656.9 | 1733.3 | 1804.5 | 1857.5 | 1863.1 | 1824.1 | 1784.9 | 1786.9 | 1790.0 |
| 27.5° | 1707.3 | 1714.9 | 1762.3 | 1837.9 | 1910.5 | 1956.5 | 1955.9 | 1903.5 | 1846.1 | 1831.6 | 1836.1 |
| 30° | 1821.5 | 1829.7 | 1878.3 | 1956.5 | 2024.0 | 2064.4 | 2055.5 | 1993.1 | 1911.1 | 1884.0 | 1887.1 |
| 32.5° | 1957.1 | 1962.2 | 2011.4 | 2089.6 | 2152.0 | 2184.2 | 2165.9 | 2089.0 | 1986.8 | 1955.9 | 1963.5 |
| 35° | 2121.1 | 2128.7 | 2165.3 | 2239.1 | 2294.0 | 2320.4 | 2289.5 | 2198.7 | 2083.9 | 2049.2 | 2054.3 |
| 37.5° | 2308.4 | 2303.4 | 2345.0 | 2410.6 | 2456.0 | 2472.4 | 2430.2 | 2322.3 | 2194.9 | 2153.9 | 2161.5 |
| 40° | 2504.0 | 2501.4 | 2546.8 | 2610.0 | 2634.6 | 2644.6 | 2582.2 | 2464.2 | 2323.0 | 2278.8 | 2293.3 |
| 42.5° | 2681.2 | 2679.4 | 2740.5 | 2810.5 | 2840.2 | 2828.8 | 2750.0 | 2615.0 | 2471.2 | 2420.7 | 2433.4 |
| 45° | 2823.2 | 2820.6 | 2895.6 | 2994.0 | 3052.0 | 3033.2 | 2927.2 | 2781.5 | 2621.3 | 2569.0 | 2581.0 |
| 47.5° | 2932.2 | 2933.4 | 3014.2 | 3136.0 | 3237.5 | 3244.4 | 3108.2 | 2951.2 | 2786.6 | 2727.2 | 2745.0 |
| 50° | 3011.0 | 3014.8 | 3101.2 | 3236.2 | 3375.0 | 3436.2 | 3293.0 | 3125.2 | 2957.4 | 2890.6 | 2910.8 |
| 52.5° | 3030.6 | 3037.6 | 3141.6 | 3300.0 | 3463.3 | 3580.0 | 3481.0 | 3292.4 | 3119.6 | 3055.8 | 3072.2 |
| 55° | 2926.6 | 2940.4 | 3072.2 | 3294.9 | 3517.6 | 3674.6 | 3646.2 | 3462.0 | 3282.9 | 3217.4 | 3235.6 |
| 57.5° | 2687.5 | 2707.0 | 2861.0 | 3151.8 | 3505.6 | 3739.6 | 3774.3 | 3624.8 | 3446.3 | 3383.2 | 3397.7 |
| 60° | 2352.6 | 2376.0 | 2523.5 | 2840.8 | 3336.6 | 3763.5 | 3864.5 | 3783.1 | 3596.4 | 3535.2 | 3548.4 |
| 62.5° | 1847.4 | 1877.7 | 2054.3 | 2426.4 | 2979.6 | 3651.9 | 3941.4 | 3926.3 | 3731.4 | 3655.0 | 3663.9 |
| 65° | 1185.1 | 1217.3 | 1403.3 | 1843.0 | 2503.4 | 3310.0 | 3965.3 | 4065.7 | 3873.9 | 3767.3 | 3780.6 |
| 67.5° | 714.6 | 729.1 | 821.2 | 1117.0 | 1829.7 | 2794.8 | 3762.3 | 4220.1 | 4040.4 | 3908.0 | 3918.1 |
| 70° | 457.3 | 465.5 | 520.4 | 656.0 | 1034.4 | 2039.1 | 3259.0 | 4249.2 | 4242.3 | 4052.4 | 4051.1 |
| 72.5° | 310.3 | 312.8 | 327.4 | 388.5 | 585.3 | 1158.7 | 2403.7 | 3846.8 | 4368.4 | 4238.5 | 4218.3 |
| 75° | 227.0 | 241.0 | 264.2 | 275.0 | 332.4 | 579.0 | 1377.5 | 2702.6 | 3681.5 | 3738.3 | 3600.8 |
| 77.5° | 169.0 | 169.6 | 201.8 | 214.4 | 237.2 | 308.4 | 582.8 | 1508.7 | 2285.8 | 2399.9 | 2140.7 |
| 80° | 143.2 | 135.6 | 135.0 | 172.8 | 178.5 | 192.4 | 260.5 | 521.0 | 818.7 | 496.4 | 375.3 |
| 82.5° | 119.2 | 111.0 | 100.2 | 135.0 | 121.8 | 118.0 | 112.9 | 212.0 | 260.5 | 128.0 | 109.2 |
| 85° | 83.2 | 79.4 | 75.6 | 88.3 | 69.4 | 59.2 | 54.2 | 99.0 | 109.8 | 54.2 | 48.0 |
| 87.5° | 36.0 | 37.2 | 37.8 | 39.2 | 29.0 | 20.8 | 20.8 | 27.8 | 27.8 | 21.4 | 15.8 |
| 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)