

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: P882892

Luminaire Tested: **NVN-SB3A-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882892
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-SB3A-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12334 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

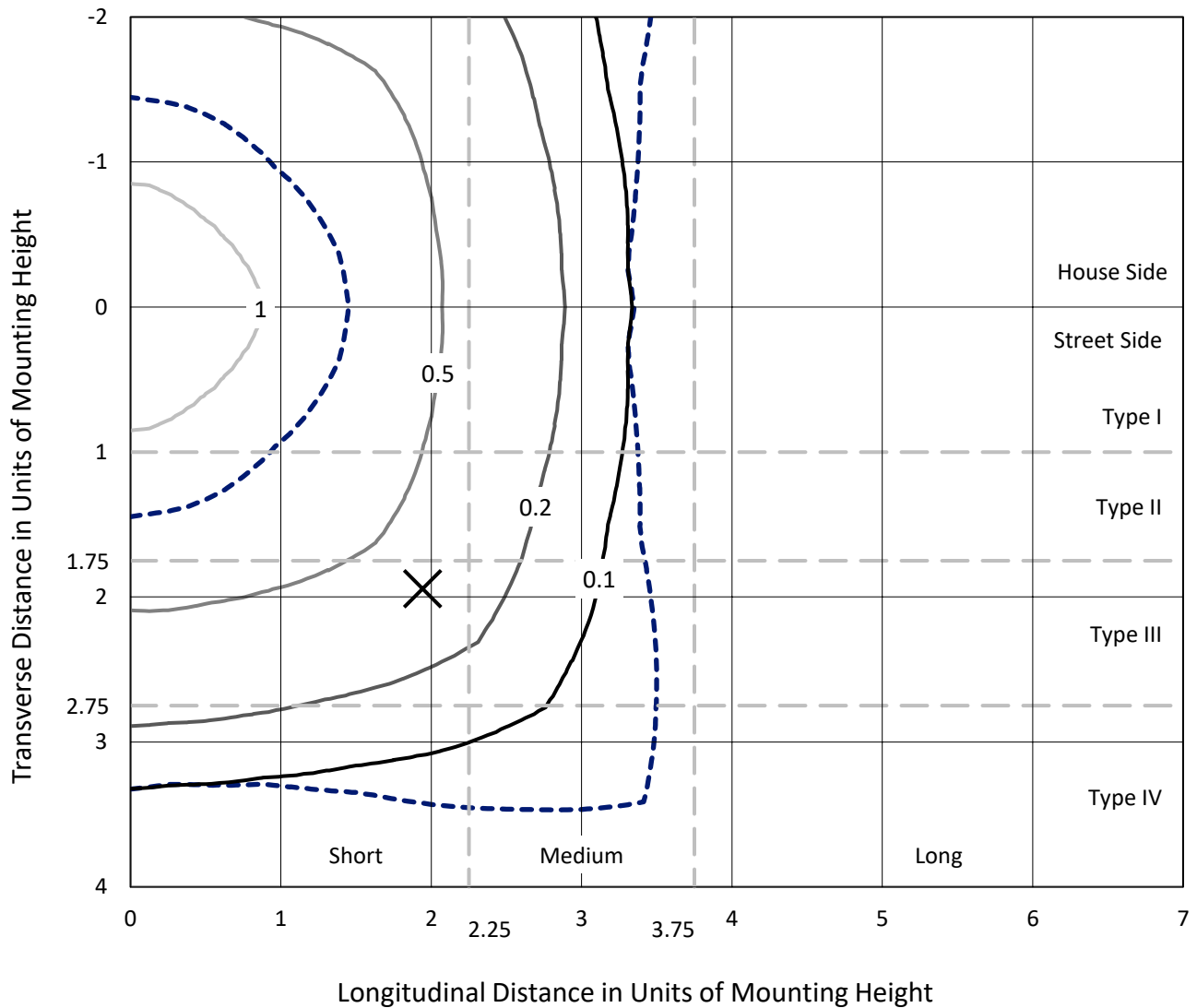
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

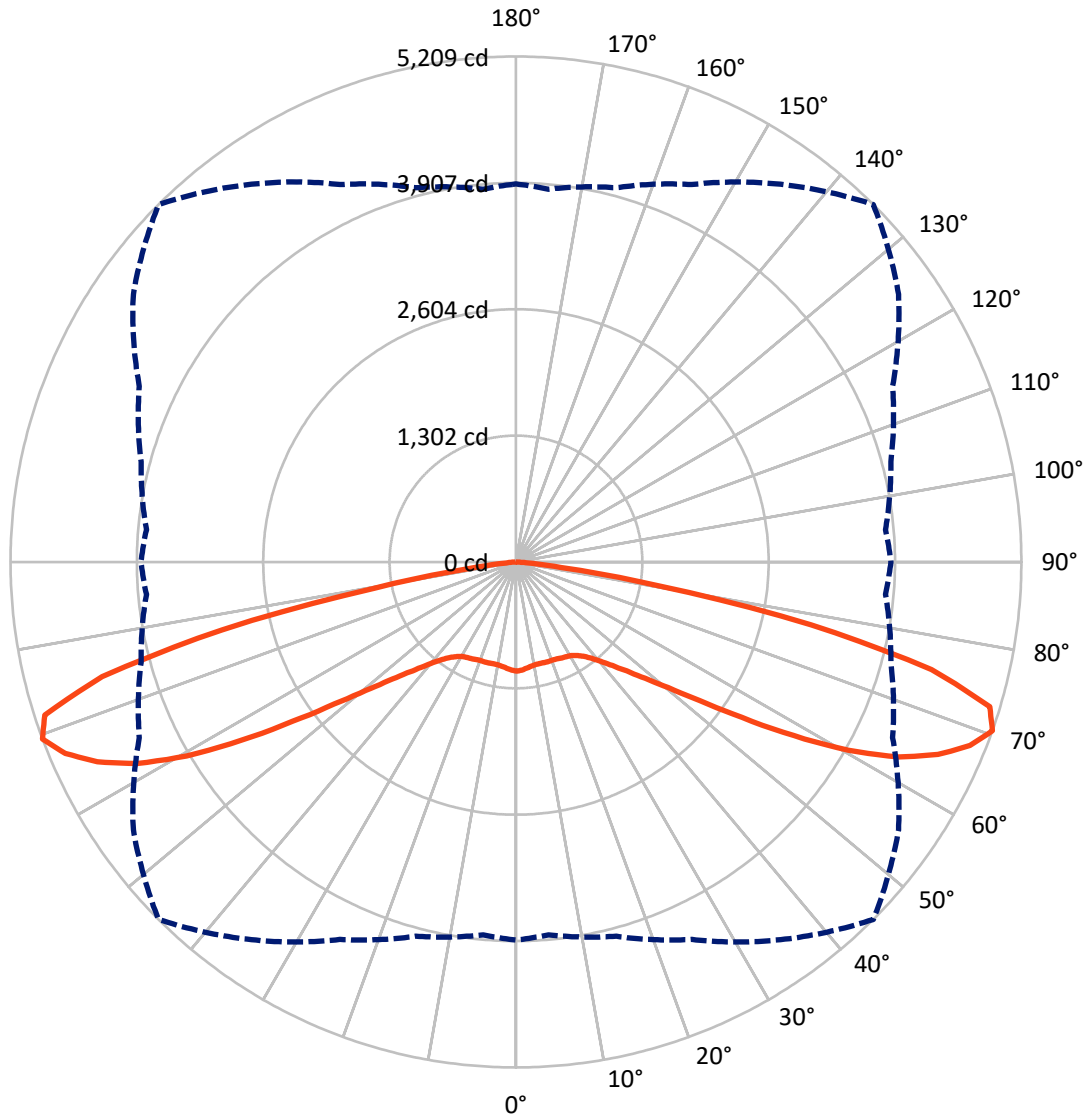
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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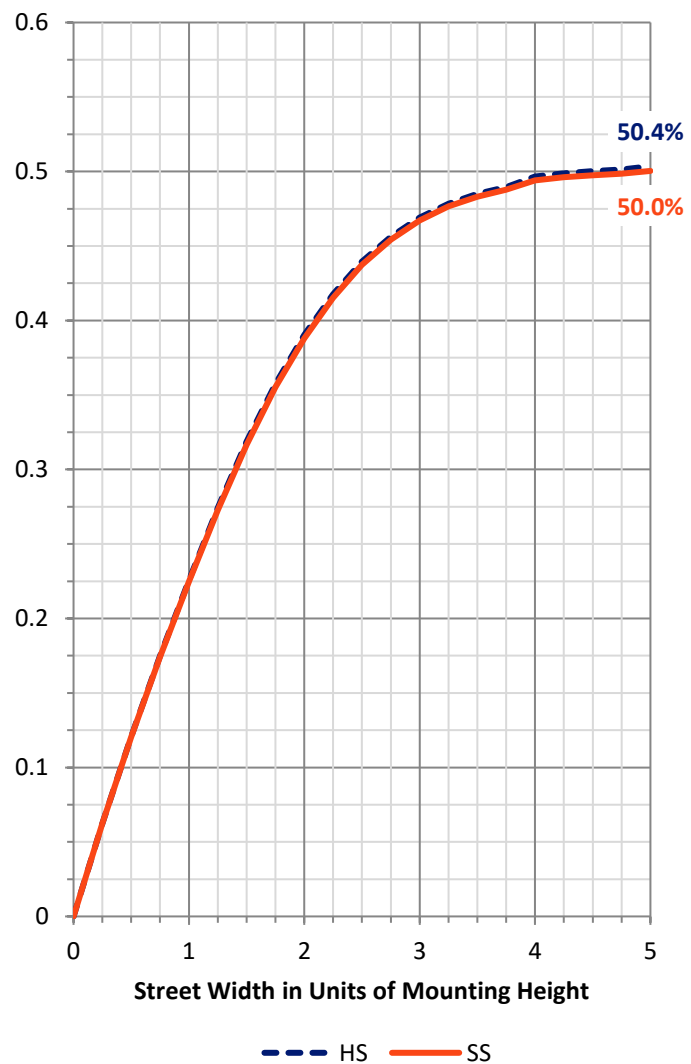
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6167.0 | 0.0 | 6167.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6167.0 | 0.0 | 6167.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12334.0 | 0.0 | 12334.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 104.7 | 0.8 |
| 10°-20° | 307.3 | 2.5 |
| 20°-30° | 511.4 | 4.1 |
| 30°-40° | 773.4 | 6.3 |
| 40°-50° | 1285.2 | 10.4 |
| 50°-60° | 2425.2 | 19.7 |
| 60°-70° | 4095.0 | 33.2 |
| 70°-80° | 2690.8 | 21.8 |
| 80°-90° | 141.0 | 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° | 12334.0 | 100.0 |
| 0°-180° | 12334.0 | 100.0 |

Coefficient of Utilization



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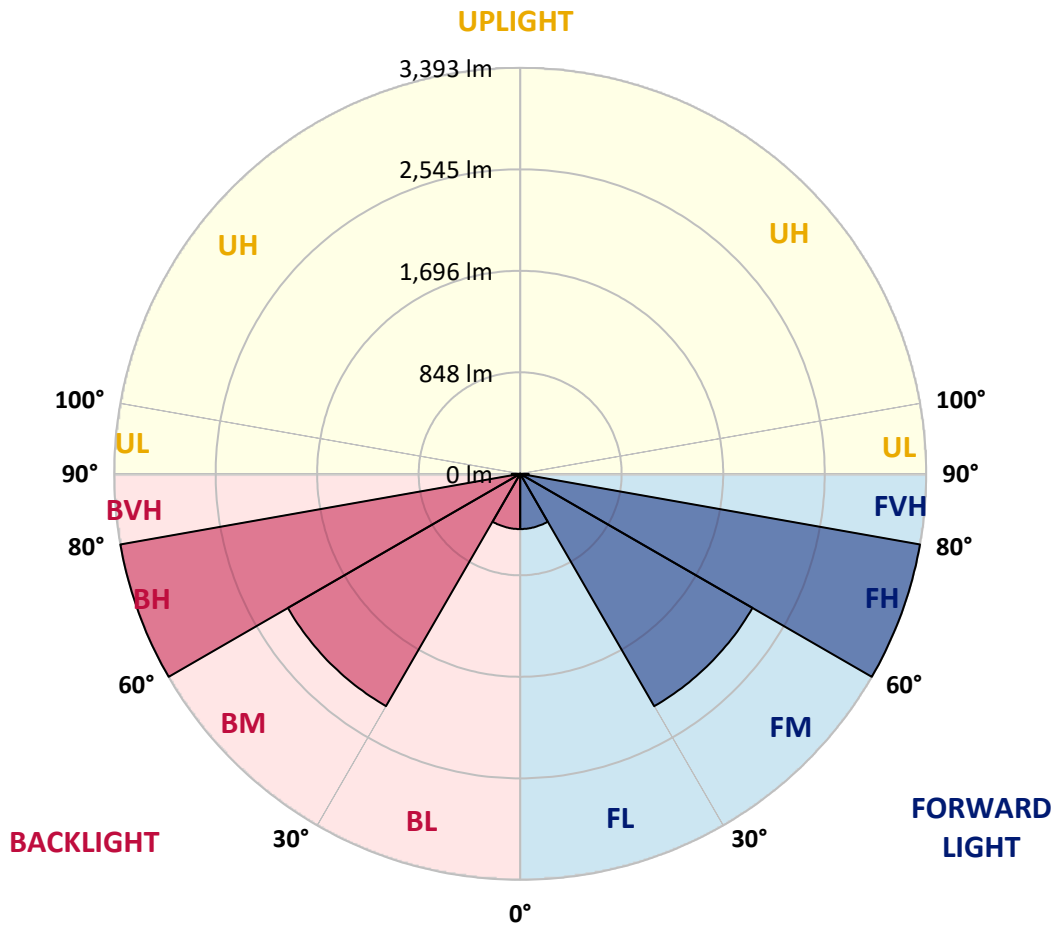
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 461.7 | 3.7 | | | |
| FM (30°-60°) | 2241.9 | 18.2 | | | |
| FH (60°-80°) | 3392.9 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 70.5 | 0.6 | | | G1/100 |
| BL (0°-30°) | 461.7 | 3.7 | B1/500 | | |
| BM (30°-60°) | 2241.9 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 3392.9 | 27.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 70.5 | 0.6 | | | 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° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 |
| 2.5° | 1118.1 | 1121.3 | 1120.0 | 1117.4 | 1117.4 | 1115.5 | 1117.4 | 1118.7 | 1120.6 | 1121.9 | 1121.3 |
| 5° | 1103.3 | 1105.9 | 1105.2 | 1103.3 | 1104.0 | 1102.0 | 1103.3 | 1105.2 | 1106.5 | 1107.2 | 1107.2 |
| 7.5° | 1090.5 | 1093.1 | 1091.8 | 1088.6 | 1088.6 | 1086.6 | 1087.3 | 1089.2 | 1091.1 | 1091.8 | 1091.8 |
| 10° | 1087.3 | 1089.8 | 1086.0 | 1080.9 | 1079.0 | 1076.4 | 1077.0 | 1079.0 | 1082.8 | 1084.7 | 1084.7 |
| 12.5° | 1088.6 | 1090.5 | 1086.6 | 1079.0 | 1077.0 | 1074.5 | 1074.5 | 1076.4 | 1081.5 | 1084.1 | 1084.7 |
| 15° | 1092.4 | 1094.3 | 1088.6 | 1080.2 | 1078.3 | 1076.4 | 1075.7 | 1078.3 | 1084.1 | 1088.6 | 1089.2 |
| 17.5° | 1099.5 | 1101.4 | 1092.4 | 1080.9 | 1078.3 | 1079.0 | 1078.3 | 1080.2 | 1089.2 | 1097.5 | 1097.5 |
| 20° | 1105.9 | 1107.2 | 1095.0 | 1080.9 | 1078.3 | 1079.0 | 1078.3 | 1082.2 | 1093.7 | 1105.2 | 1105.9 |
| 22.5° | 1107.8 | 1109.1 | 1097.5 | 1085.4 | 1083.4 | 1084.1 | 1083.4 | 1087.3 | 1098.2 | 1109.7 | 1109.7 |
| 25° | 1108.4 | 1110.4 | 1101.4 | 1091.8 | 1095.0 | 1096.3 | 1095.0 | 1095.6 | 1104.0 | 1114.2 | 1113.6 |
| 27.5° | 1118.1 | 1120.6 | 1112.3 | 1104.0 | 1105.9 | 1105.2 | 1107.2 | 1109.1 | 1115.5 | 1125.8 | 1123.2 |
| 30° | 1137.9 | 1139.9 | 1132.8 | 1124.5 | 1123.2 | 1118.7 | 1124.5 | 1130.9 | 1137.9 | 1146.9 | 1145.0 |
| 32.5° | 1170.6 | 1174.5 | 1165.5 | 1156.5 | 1150.8 | 1148.2 | 1152.7 | 1163.6 | 1173.2 | 1182.8 | 1179.0 |
| 35° | 1225.1 | 1227.7 | 1219.3 | 1202.7 | 1192.4 | 1192.4 | 1196.3 | 1210.4 | 1225.8 | 1237.9 | 1233.5 |
| 37.5° | 1302.0 | 1305.3 | 1290.5 | 1270.6 | 1255.2 | 1255.2 | 1260.4 | 1275.1 | 1298.2 | 1315.5 | 1309.1 |
| 40° | 1395.6 | 1400.1 | 1381.5 | 1361.0 | 1346.3 | 1343.7 | 1350.1 | 1366.8 | 1388.6 | 1410.4 | 1403.3 |
| 42.5° | 1508.5 | 1513.6 | 1489.2 | 1471.3 | 1459.8 | 1459.8 | 1463.0 | 1478.3 | 1498.2 | 1525.1 | 1523.2 |
| 45° | 1652.7 | 1661.7 | 1628.4 | 1610.4 | 1599.5 | 1602.1 | 1604.0 | 1617.5 | 1635.4 | 1666.2 | 1664.9 |
| 47.5° | 1824.5 | 1833.5 | 1798.3 | 1779.7 | 1777.7 | 1789.9 | 1782.2 | 1791.8 | 1801.5 | 1836.7 | 1826.5 |
| 50° | 2019.4 | 2034.8 | 2010.5 | 2009.2 | 2013.0 | 2035.5 | 2017.5 | 2022.6 | 2011.7 | 2034.2 | 2020.7 |
| 52.5° | 2257.9 | 2280.3 | 2275.9 | 2283.6 | 2326.5 | 2372.7 | 2331.6 | 2313.7 | 2272.7 | 2279.7 | 2256.0 |
| 55° | 2547.0 | 2581.0 | 2587.4 | 2633.6 | 2731.0 | 2825.3 | 2738.1 | 2665.6 | 2578.5 | 2562.4 | 2537.4 |
| 57.5° | 2875.9 | 2902.8 | 2933.6 | 3027.9 | 3209.9 | 3377.3 | 3209.9 | 3049.7 | 2912.5 | 2879.8 | 2856.7 |
| 60° | 3229.8 | 3263.1 | 3292.6 | 3431.7 | 3702.3 | 3937.6 | 3697.2 | 3442.6 | 3261.2 | 3217.0 | 3178.5 |
| 62.5° | 3610.0 | 3652.9 | 3673.4 | 3827.9 | 4143.4 | 4424.1 | 4147.8 | 3839.5 | 3638.2 | 3590.7 | 3552.3 |
| 65° | 3974.7 | 4010.0 | 4033.1 | 4197.8 | 4499.2 | 4780.6 | 4519.7 | 4215.8 | 4008.7 | 3946.5 | 3915.8 |
| 67.5° | 4144.6 | 4163.9 | 4220.3 | 4406.8 | 4724.8 | 5046.0 | 4778.7 | 4426.7 | 4195.3 | 4086.3 | 4087.6 |
| 70° | 3895.9 | 3856.8 | 3992.7 | 4291.4 | 4751.7 | 5208.8 | 4813.3 | 4282.5 | 3999.1 | 3822.2 | 3864.5 |
| 72.5° | 3010.5 | 2943.2 | 3179.2 | 3690.1 | 4444.0 | 5105.0 | 4474.8 | 3719.0 | 3326.0 | 2967.0 | 3056.1 |
| 75° | 1638.0 | 1561.7 | 1887.4 | 2533.6 | 3543.9 | 4424.8 | 3625.4 | 2606.0 | 2101.5 | 1625.8 | 1731.6 |
| 77.5° | 462.2 | 433.4 | 696.2 | 1225.8 | 2131.6 | 3106.7 | 2213.7 | 1252.7 | 825.7 | 489.8 | 544.3 |
| 80° | 141.7 | 137.2 | 185.9 | 369.3 | 905.2 | 1488.0 | 870.0 | 373.8 | 236.6 | 149.4 | 157.7 |
| 82.5° | 84.0 | 76.9 | 92.3 | 134.6 | 230.8 | 467.4 | 224.4 | 140.4 | 112.8 | 75.6 | 82.1 |
| 85° | 48.1 | 44.9 | 54.5 | 65.4 | 77.6 | 99.4 | 64.7 | 66.7 | 60.3 | 40.4 | 42.3 |
| 87.5° | 19.9 | 18.0 | 21.2 | 20.5 | 18.0 | 23.1 | 17.3 | 20.5 | 24.4 | 16.0 | 14.7 |
| 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)