

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: P509066

Luminaire Tested: **VERD-CA2-100-727-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-727-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1370mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12181 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 103.4
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

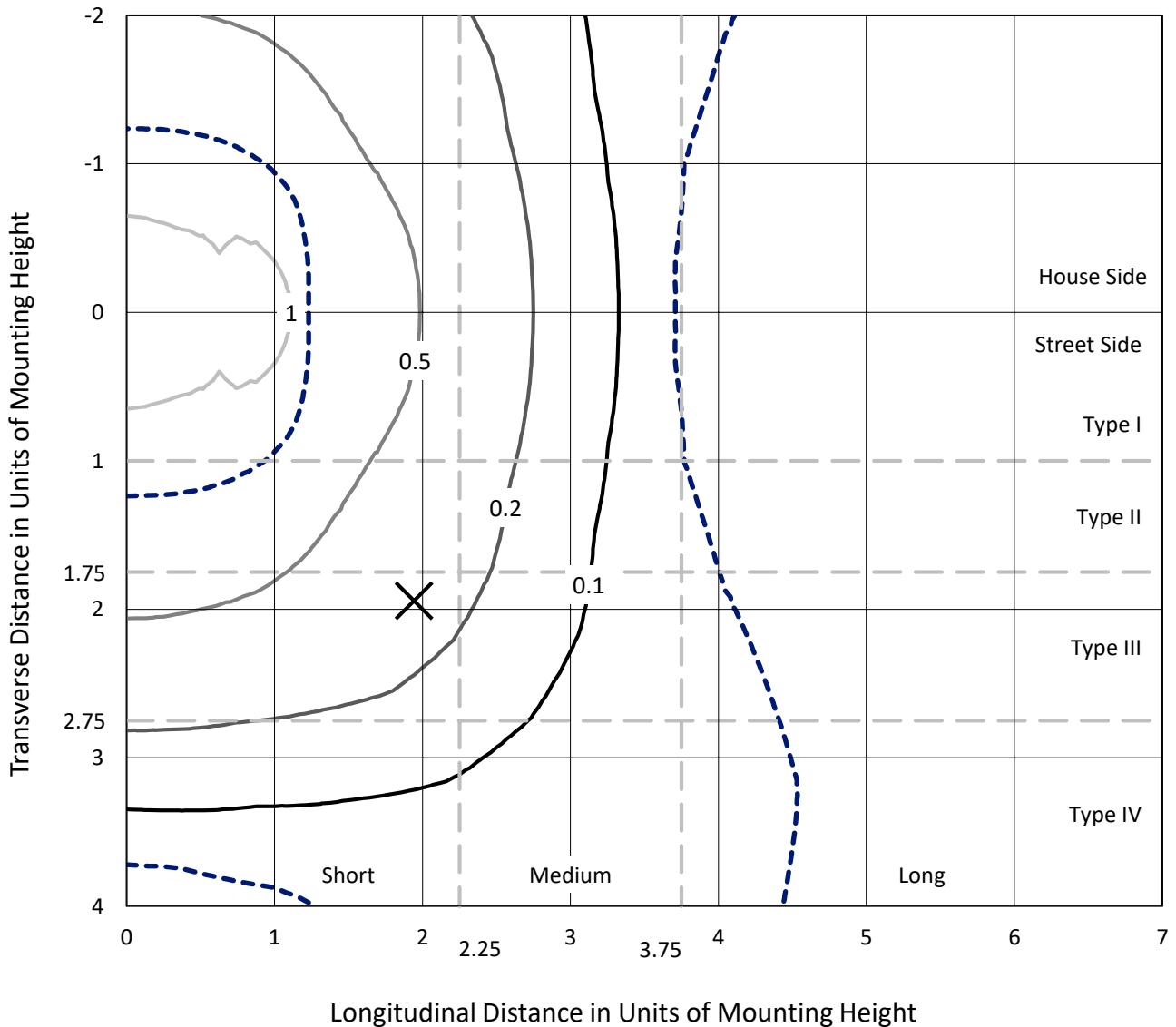


REPORT NUMBER: P509066

CATALOG NUMBER: VERD-CA2-100-727-U-T5

Iso-Footcandle Lines of Horizontal Illumination

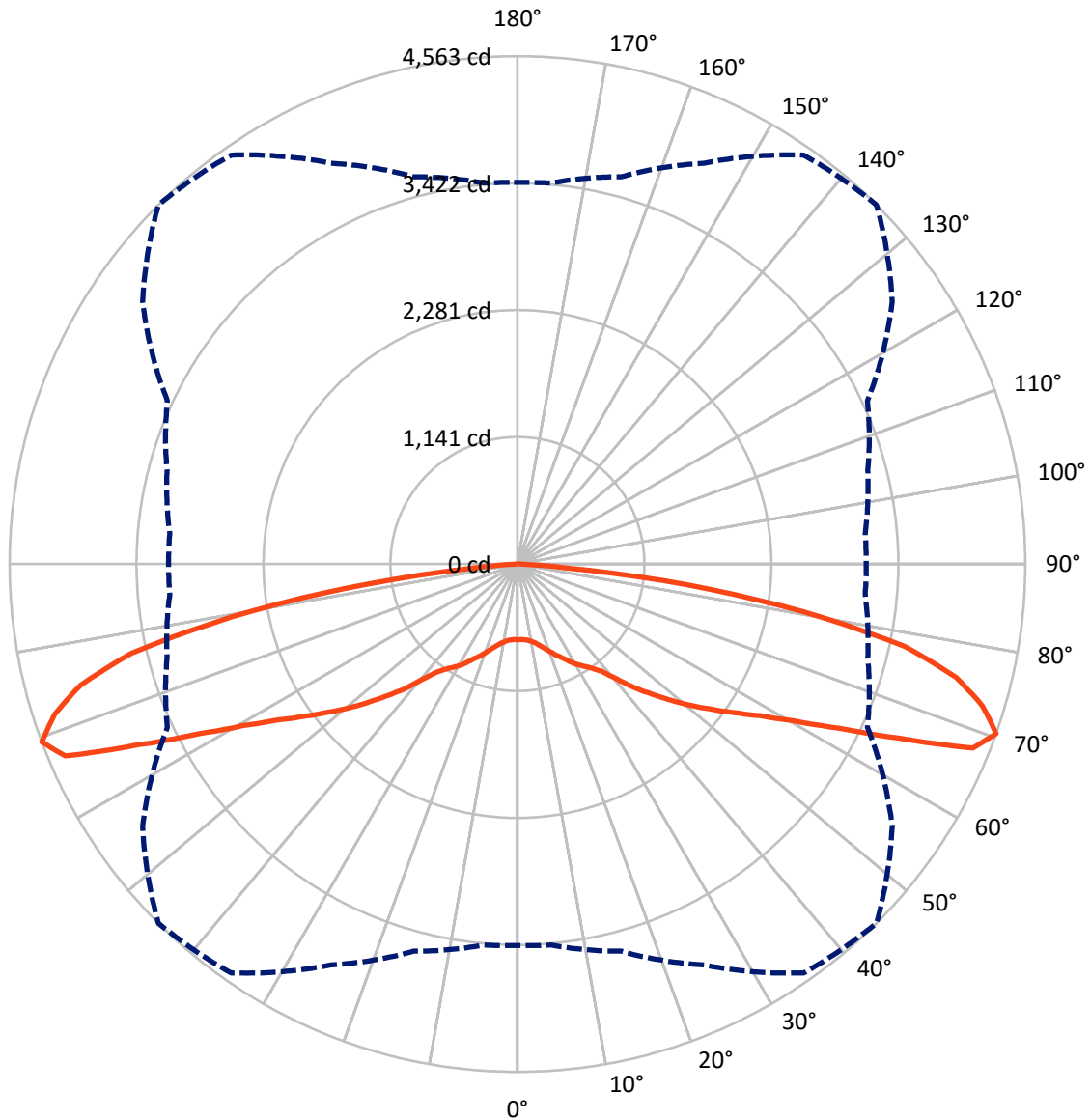
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

REPORT NUMBER: P509066
CATALOG NUMBER: VERD-CA2-100-727-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509066

CATALOG NUMBER: VERD-CA2-100-727-U-T5

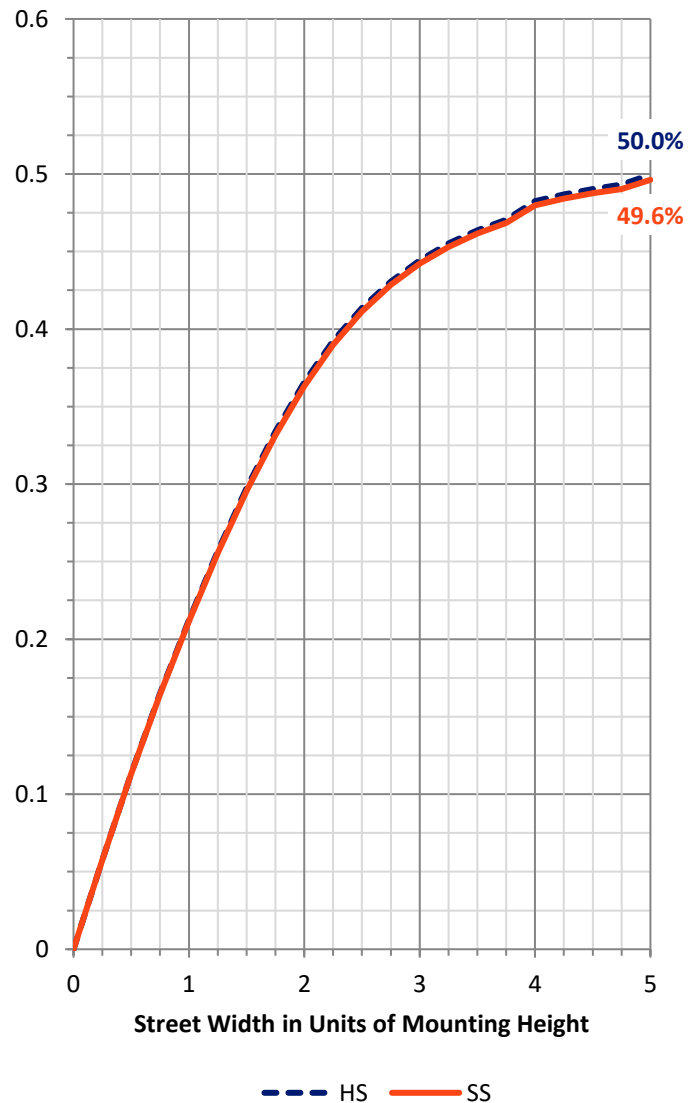
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6090.5 | 0.0 | 6090.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6090.5 | 0.0 | 6090.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12181.0 | 0.0 | 12181.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 66.2 | 0.5 |
| 10°-20° | 217.6 | 1.8 |
| 20°-30° | 427.4 | 3.5 |
| 30°-40° | 733.0 | 6.0 |
| 40°-50° | 1346.0 | 11.0 |
| 50°-60° | 2265.2 | 18.6 |
| 60°-70° | 3579.0 | 29.4 |
| 70°-80° | 3054.2 | 25.1 |
| 80°-90° | 492.4 | 4.0 |
| 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° | 12181.0 | 100.0 |
| 0°-180° | 12181.0 | 100.0 |



REPORT NUMBER: P509066

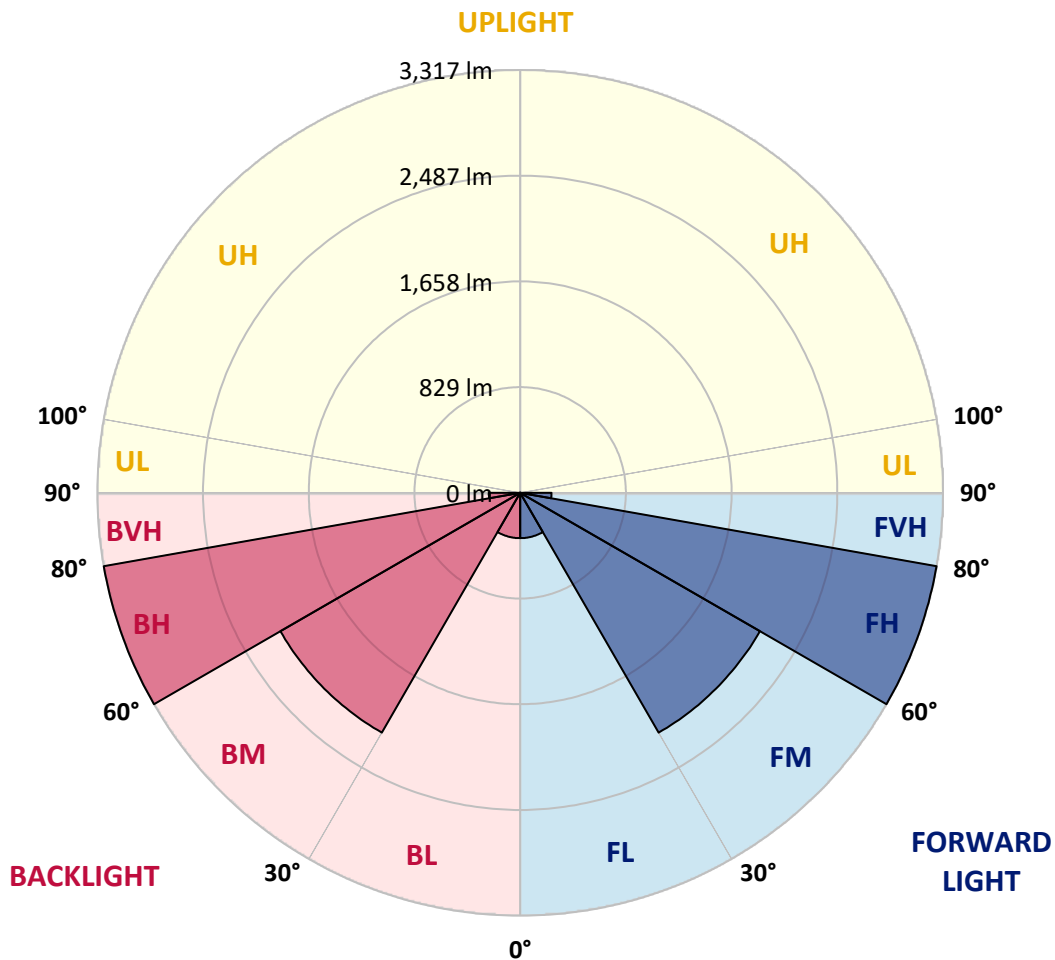
CATALOG NUMBER: VERD-CA2-100-727-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 355.6 | 2.9 | | | |
| FM (30°-60°) | 2172.1 | 17.8 | | | |
| FH (60°-80°) | 3316.6 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 246.2 | 2.0 | | | G3/500 |
| BL (0°-30°) | 355.6 | 2.9 | B1/500 | | |
| BM (30°-60°) | 2172.1 | 17.8 | B2/2500 | | |
| BH (60°-80°) | 3316.6 | 27.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 246.2 | 2.0 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type V Short





REPORT NUMBER: P509066
 CATALOG NUMBER: VERD-CA2-100-727-U-T5

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 680.9 | 680.9 | 680.9 | 680.9 | 680.9 | 680.9 | 680.9 | 680.9 | 680.9 | 680.9 | 680.9 |
| 2.5° | 682.2 | 686.0 | 682.2 | 682.2 | 679.6 | 678.3 | 678.3 | 678.3 | 680.9 | 683.4 | 683.4 |
| 5° | 687.3 | 689.8 | 686.0 | 686.0 | 683.4 | 683.4 | 683.4 | 683.4 | 686.0 | 688.6 | 687.3 |
| 7.5° | 696.2 | 700.1 | 696.2 | 696.2 | 693.7 | 691.1 | 691.1 | 692.4 | 693.7 | 695.0 | 693.7 |
| 10° | 711.6 | 716.7 | 711.6 | 714.2 | 709.0 | 707.8 | 706.5 | 706.5 | 707.8 | 707.8 | 707.8 |
| 12.5° | 730.8 | 734.6 | 732.1 | 734.6 | 729.5 | 729.5 | 725.7 | 725.7 | 724.4 | 724.4 | 724.4 |
| 15° | 756.4 | 761.5 | 759.0 | 762.8 | 760.2 | 760.2 | 756.4 | 752.6 | 751.3 | 751.3 | 751.3 |
| 17.5° | 787.1 | 792.2 | 791.0 | 797.4 | 794.8 | 797.4 | 789.7 | 783.3 | 784.6 | 784.6 | 783.3 |
| 20° | 823.0 | 828.1 | 828.1 | 837.0 | 837.0 | 839.6 | 829.4 | 823.0 | 820.4 | 821.7 | 820.4 |
| 22.5° | 862.6 | 867.7 | 866.5 | 880.5 | 888.2 | 888.2 | 874.1 | 869.0 | 863.9 | 865.2 | 862.6 |
| 25° | 906.1 | 912.5 | 906.1 | 918.9 | 931.7 | 933.0 | 921.5 | 908.7 | 908.7 | 915.1 | 912.5 |
| 27.5° | 943.3 | 950.9 | 947.1 | 952.2 | 980.4 | 988.1 | 970.1 | 956.1 | 958.6 | 963.7 | 959.9 |
| 30° | 988.1 | 994.5 | 988.1 | 991.9 | 1018.8 | 1044.4 | 1011.1 | 1007.3 | 1012.4 | 1017.5 | 1017.5 |
| 32.5° | 1045.7 | 1053.3 | 1041.8 | 1045.7 | 1054.6 | 1094.3 | 1064.8 | 1070.0 | 1081.5 | 1093.0 | 1093.0 |
| 35° | 1113.5 | 1121.2 | 1109.6 | 1109.6 | 1113.5 | 1146.8 | 1137.8 | 1153.2 | 1176.2 | 1200.5 | 1205.6 |
| 37.5° | 1199.2 | 1203.1 | 1190.3 | 1185.2 | 1192.8 | 1219.7 | 1232.5 | 1267.1 | 1304.2 | 1349.0 | 1356.7 |
| 40° | 1315.7 | 1320.8 | 1302.9 | 1297.8 | 1302.9 | 1341.3 | 1377.1 | 1438.6 | 1489.8 | 1537.1 | 1542.2 |
| 42.5° | 1488.5 | 1503.8 | 1485.9 | 1469.3 | 1469.3 | 1503.8 | 1553.8 | 1628.0 | 1693.3 | 1724.0 | 1731.7 |
| 45° | 1679.2 | 1693.3 | 1654.9 | 1633.1 | 1624.2 | 1652.3 | 1707.3 | 1794.4 | 1855.8 | 1905.7 | 1901.9 |
| 47.5° | 1905.7 | 1900.6 | 1864.8 | 1826.4 | 1798.2 | 1816.1 | 1867.3 | 1942.8 | 2009.4 | 2054.2 | 2055.5 |
| 50° | 2159.1 | 2157.9 | 2110.5 | 2035.0 | 1981.2 | 1988.9 | 2023.5 | 2104.1 | 2170.7 | 2212.9 | 2223.1 |
| 52.5° | 2429.2 | 2420.2 | 2357.5 | 2270.5 | 2189.9 | 2164.3 | 2178.3 | 2250.0 | 2321.7 | 2370.3 | 2370.3 |
| 55° | 2699.2 | 2687.7 | 2635.2 | 2520.1 | 2424.1 | 2355.0 | 2344.7 | 2416.4 | 2498.3 | 2557.2 | 2561.0 |
| 57.5° | 2978.2 | 2980.8 | 2924.5 | 2825.9 | 2678.8 | 2572.5 | 2544.4 | 2626.3 | 2713.3 | 2767.1 | 2781.1 |
| 60° | 3262.4 | 3259.8 | 3216.3 | 3147.2 | 3000.0 | 2861.8 | 2815.7 | 2863.1 | 2973.1 | 3015.4 | 3032.0 |
| 62.5° | 3624.6 | 3633.5 | 3569.5 | 3520.9 | 3381.4 | 3248.3 | 3161.3 | 3207.3 | 3316.1 | 3375.0 | 3376.3 |
| 65° | 3820.4 | 3838.3 | 3866.5 | 3954.8 | 3908.7 | 3773.0 | 3663.0 | 3609.2 | 3575.9 | 3556.7 | 3545.2 |
| 67.5° | 3710.3 | 3711.6 | 3833.2 | 4058.5 | 4324.7 | 4411.7 | 3991.9 | 3615.6 | 3477.4 | 3439.0 | 3428.8 |
| 70° | 3427.5 | 3435.2 | 3601.5 | 3974.0 | 4484.7 | 4562.7 | 4110.9 | 3469.7 | 3258.5 | 3135.7 | 3134.4 |
| 72.5° | 2864.3 | 2957.8 | 3176.6 | 3728.2 | 4381.0 | 4372.0 | 3920.2 | 3234.2 | 2901.5 | 2779.9 | 2765.8 |
| 75° | 2266.6 | 2293.5 | 2596.8 | 3217.6 | 3997.0 | 4071.3 | 3642.5 | 2811.9 | 2425.3 | 2265.4 | 2256.4 |
| 77.5° | 1448.8 | 1473.1 | 1807.2 | 2497.0 | 3377.6 | 3558.0 | 3107.5 | 2246.2 | 1813.6 | 1589.6 | 1583.2 |
| 80° | 707.8 | 776.9 | 1030.3 | 1625.4 | 2438.1 | 2608.4 | 2186.0 | 1436.0 | 1073.8 | 862.6 | 844.7 |
| 82.5° | 290.5 | 305.9 | 501.7 | 899.7 | 1430.9 | 1546.1 | 1117.3 | 668.1 | 396.8 | 262.4 | 243.2 |
| 85° | 87.0 | 88.3 | 153.6 | 321.2 | 602.8 | 436.4 | 225.3 | 96.0 | 42.2 | 30.7 | 29.4 |
| 87.5° | 15.4 | 16.6 | 28.2 | 38.4 | 37.1 | 16.6 | 15.4 | 14.1 | 14.1 | 14.1 | 15.4 |
| 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)