

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: P509587

Luminaire Tested: **VERD-G-CA2-130-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-130-727-U-T1
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17009 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

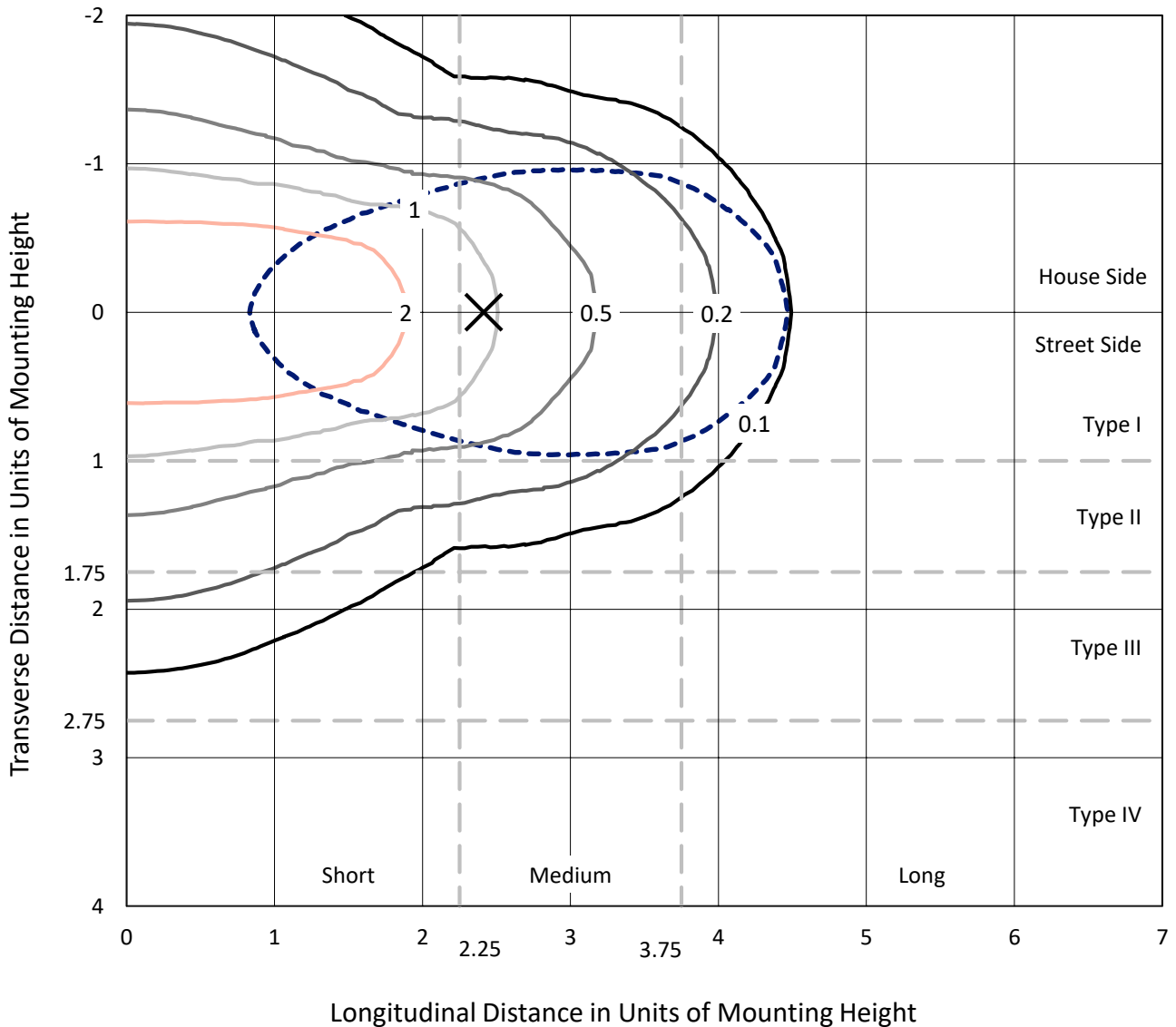
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509587
 CATALOG NUMBER: VERD-G-CA2-130-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

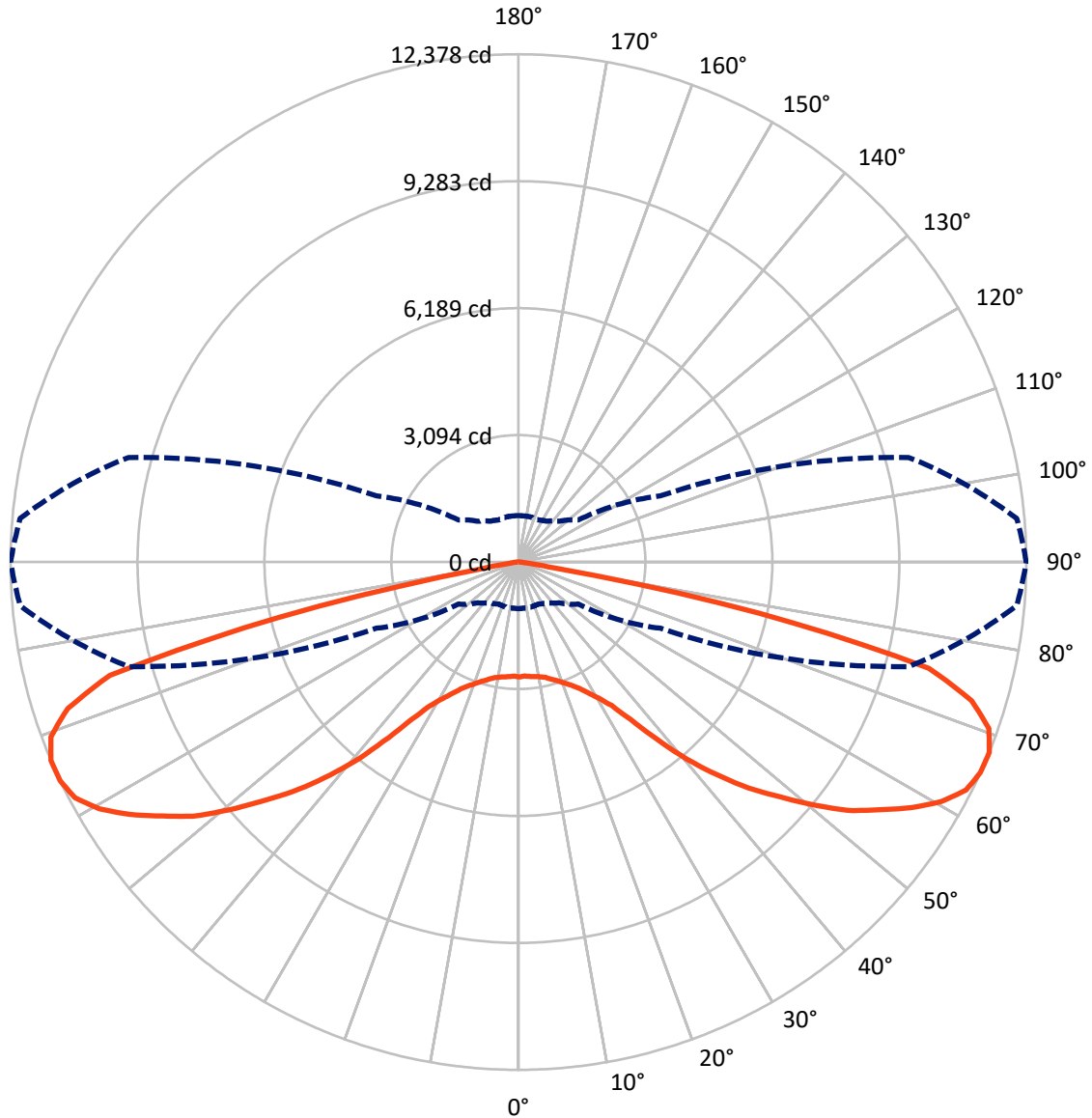
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type I - Short - N/A

REPORT NUMBER: P509587
CATALOG NUMBER: VERD-G-CA2-130-727-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509587

CATALOG NUMBER: VERD-G-CA2-130-727-U-T1

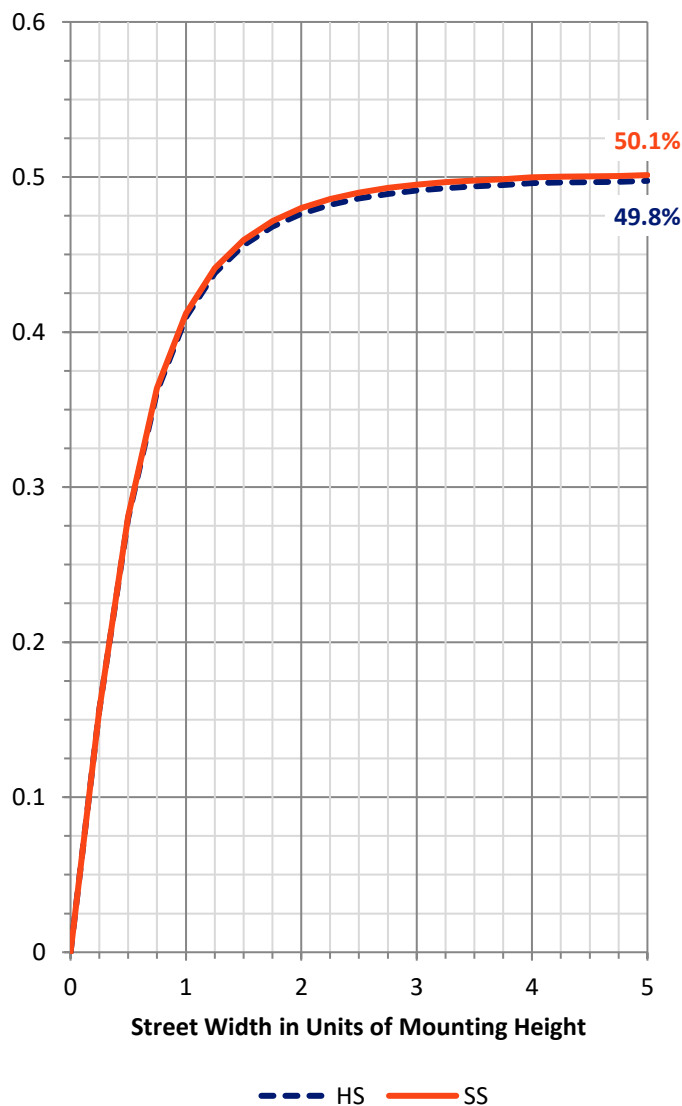
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8504.5 | 0.0 | 8504.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8504.5 | 0.0 | 8504.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17009.0 | 0.0 | 17009.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 267.7 | 1.6 |
| 10°-20° | 797.1 | 4.7 |
| 20°-30° | 1312.4 | 7.7 |
| 30°-40° | 1916.9 | 11.3 |
| 40°-50° | 2796.7 | 16.4 |
| 50°-60° | 3611.9 | 21.2 |
| 60°-70° | 3848.7 | 22.6 |
| 70°-80° | 2348.6 | 13.8 |
| 80°-90° | 109.0 | 0.6 |
| 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° | 17009.0 | 100.0 |
| 0°-180° | 17009.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P509587

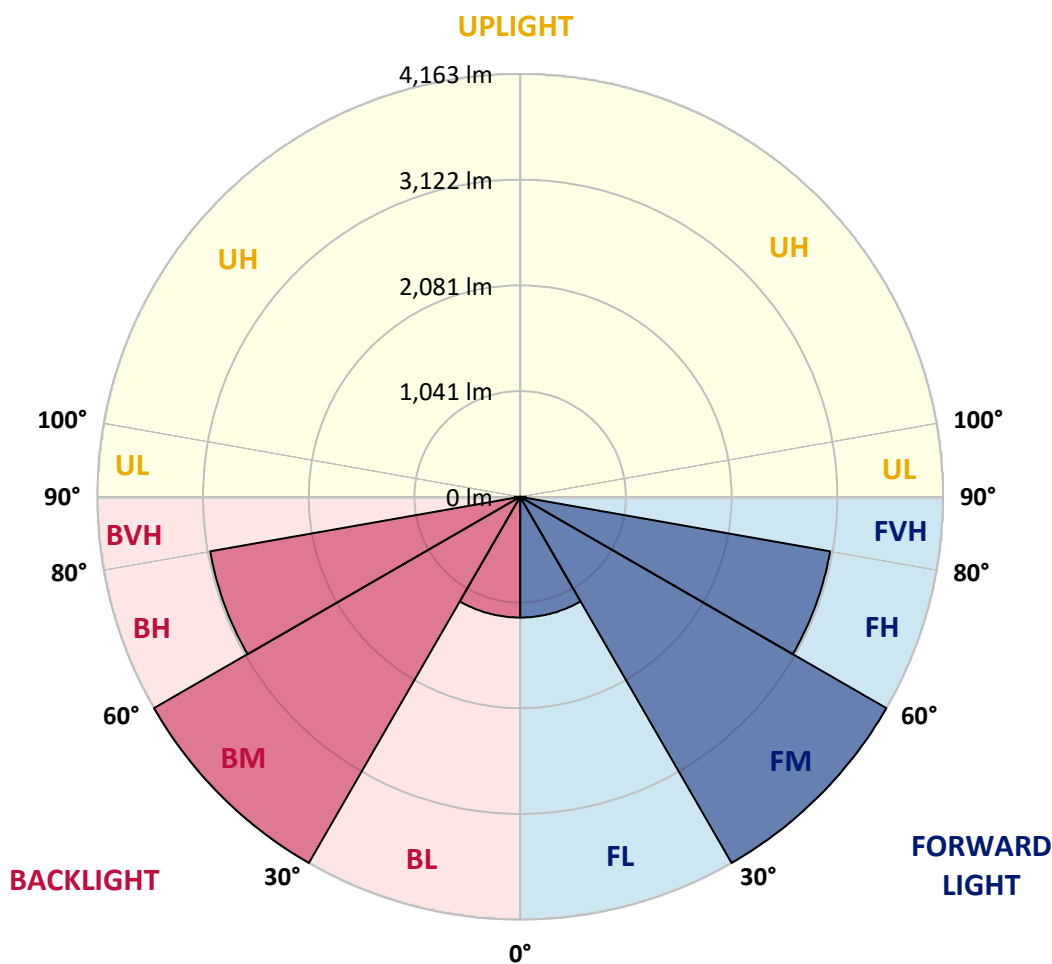
CATALOG NUMBER: VERD-G-CA2-130-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1188.6 | 7.0 | | | |
| FM (30°-60°) | 4162.8 | 24.5 | | | |
| FH (60°-80°) | 3098.6 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 54.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1188.6 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 4162.8 | 24.5 | B3/5000 | | |
| BH (60°-80°) | 3098.6 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 54.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short





REPORT NUMBER: P509587
 CATALOG NUMBER: VERD-G-CA2-130-727-U-T1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2801.8 | 2801.8 | 2801.8 | 2801.8 | 2801.8 | 2801.8 | 2801.8 | 2801.8 | 2801.8 | 2801.8 | 2801.8 |
| 2.5° | 2823.9 | 2830.2 | 2820.7 | 2809.2 | 2820.7 | 2806.0 | 2786.1 | 2787.1 | 2784.0 | 2787.1 | 2779.8 |
| 5° | 2819.7 | 2819.7 | 2808.1 | 2788.2 | 2813.4 | 2827.0 | 2808.1 | 2800.8 | 2802.9 | 2807.1 | 2800.8 |
| 7.5° | 2805.0 | 2797.6 | 2781.9 | 2784.0 | 2801.8 | 2795.5 | 2815.5 | 2823.9 | 2838.6 | 2831.2 | 2818.6 |
| 10° | 2755.6 | 2772.4 | 2755.6 | 2749.3 | 2792.4 | 2787.1 | 2799.7 | 2819.7 | 2844.9 | 2839.6 | 2843.8 |
| 12.5° | 2727.3 | 2738.8 | 2730.4 | 2723.1 | 2760.9 | 2800.8 | 2818.6 | 2844.9 | 2875.3 | 2879.5 | 2882.7 |
| 15° | 2692.6 | 2706.3 | 2690.5 | 2696.8 | 2759.8 | 2811.3 | 2854.3 | 2895.2 | 2946.7 | 2953.0 | 2957.2 |
| 17.5° | 2633.9 | 2649.6 | 2625.5 | 2665.4 | 2744.1 | 2819.7 | 2896.3 | 2959.3 | 3013.9 | 3034.9 | 3034.9 |
| 20° | 2545.7 | 2557.2 | 2559.3 | 2597.1 | 2701.0 | 2823.9 | 2929.9 | 3017.0 | 3089.5 | 3129.3 | 3140.9 |
| 22.5° | 2416.6 | 2431.3 | 2457.5 | 2527.8 | 2664.3 | 2811.3 | 2958.2 | 3080.0 | 3198.6 | 3237.5 | 3253.2 |
| 25° | 2295.8 | 2304.2 | 2351.5 | 2459.6 | 2623.4 | 2810.2 | 2997.1 | 3173.4 | 3315.2 | 3394.9 | 3401.2 |
| 27.5° | 2179.3 | 2182.5 | 2253.8 | 2378.8 | 2576.1 | 2819.7 | 3045.4 | 3277.4 | 3491.5 | 3579.7 | 3609.1 |
| 30° | 2063.8 | 2073.3 | 2137.3 | 2296.9 | 2536.2 | 2815.5 | 3087.4 | 3389.7 | 3666.8 | 3818.0 | 3847.4 |
| 32.5° | 1962.0 | 1976.7 | 2049.1 | 2203.5 | 2486.9 | 2818.6 | 3151.4 | 3539.8 | 3899.9 | 4152.9 | 4167.6 |
| 35° | 1874.9 | 1886.4 | 1958.9 | 2115.3 | 2436.5 | 2830.2 | 3235.4 | 3734.0 | 4268.3 | 4642.1 | 4714.5 |
| 37.5° | 1801.4 | 1810.8 | 1887.5 | 2030.2 | 2377.7 | 2828.1 | 3337.2 | 3963.9 | 4727.1 | 5340.2 | 5477.7 |
| 40° | 1754.2 | 1764.7 | 1816.1 | 1956.8 | 2305.3 | 2813.4 | 3439.0 | 4252.6 | 5237.3 | 6159.0 | 6313.3 |
| 42.5° | 1708.0 | 1720.6 | 1757.3 | 1888.5 | 2220.3 | 2774.5 | 3540.9 | 4521.3 | 5780.0 | 6932.6 | 7084.9 |
| 45° | 1663.9 | 1668.1 | 1715.3 | 1824.5 | 2125.8 | 2721.0 | 3640.6 | 4761.7 | 6325.9 | 7699.0 | 7845.9 |
| 47.5° | 1626.1 | 1626.1 | 1661.8 | 1766.8 | 2040.7 | 2640.2 | 3679.4 | 5001.1 | 6838.2 | 8449.6 | 8539.8 |
| 50° | 1603.0 | 1591.4 | 1613.5 | 1696.4 | 1946.3 | 2507.9 | 3656.3 | 5189.0 | 7437.6 | 9169.7 | 9304.1 |
| 52.5° | 1546.3 | 1542.1 | 1558.9 | 1637.6 | 1868.6 | 2378.8 | 3551.4 | 5282.4 | 8082.1 | 9790.1 | 10062.0 |
| 55° | 1487.5 | 1486.5 | 1502.2 | 1567.3 | 1779.4 | 2222.4 | 3306.8 | 5309.7 | 8688.9 | 10475.6 | 10661.4 |
| 57.5° | 1428.7 | 1420.3 | 1438.2 | 1503.3 | 1683.8 | 2088.0 | 3039.1 | 5181.6 | 9281.0 | 11139.0 | 11293.4 |
| 60° | 1379.4 | 1373.1 | 1383.6 | 1431.9 | 1586.2 | 1919.0 | 2719.9 | 5001.1 | 9806.9 | 11671.3 | 11849.7 |
| 62.5° | 1309.1 | 1310.1 | 1316.4 | 1350.0 | 1481.2 | 1759.4 | 2402.9 | 4681.9 | 10130.2 | 12071.2 | 12241.3 |
| 65° | 1225.1 | 1221.9 | 1235.6 | 1251.3 | 1348.9 | 1585.1 | 2081.7 | 4220.1 | 10203.7 | 12264.4 | 12374.6 |
| 67.5° | 1134.8 | 1130.6 | 1137.9 | 1131.6 | 1213.5 | 1404.6 | 1783.5 | 3815.9 | 9843.6 | 12192.0 | 12377.8 |
| 70° | 1023.5 | 1023.5 | 1019.3 | 997.3 | 1056.1 | 1185.2 | 1516.9 | 3467.4 | 8864.2 | 11961.0 | 12162.6 |
| 72.5° | 836.7 | 838.8 | 855.6 | 839.8 | 874.5 | 958.4 | 1275.5 | 3069.5 | 7279.1 | 11232.5 | 11547.4 |
| 75° | 514.4 | 514.4 | 528.0 | 584.7 | 682.3 | 728.5 | 1033.0 | 2575.1 | 5899.7 | 9606.4 | 10331.8 |
| 77.5° | 264.5 | 266.6 | 274.0 | 292.9 | 310.7 | 358.0 | 580.5 | 1729.0 | 3742.4 | 5677.1 | 6002.6 |
| 80° | 75.6 | 78.7 | 176.4 | 198.4 | 210.0 | 218.4 | 265.6 | 586.8 | 956.3 | 928.0 | 876.6 |
| 82.5° | 50.4 | 52.5 | 102.9 | 120.7 | 110.2 | 90.3 | 110.2 | 172.2 | 143.8 | 180.6 | 196.3 |
| 85° | 26.2 | 28.3 | 43.0 | 47.2 | 47.2 | 54.6 | 50.4 | 51.4 | 57.7 | 110.2 | 122.8 |
| 87.5° | 12.6 | 13.6 | 17.8 | 22.0 | 23.1 | 26.2 | 25.2 | 26.2 | 29.4 | 45.1 | 49.3 |
| 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)