

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: P285873

Luminaire Tested: **USSL-XL-C069-D-U-T5-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-11)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C069-D-U-T5-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE V OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44287 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 285
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: 28.75 FT

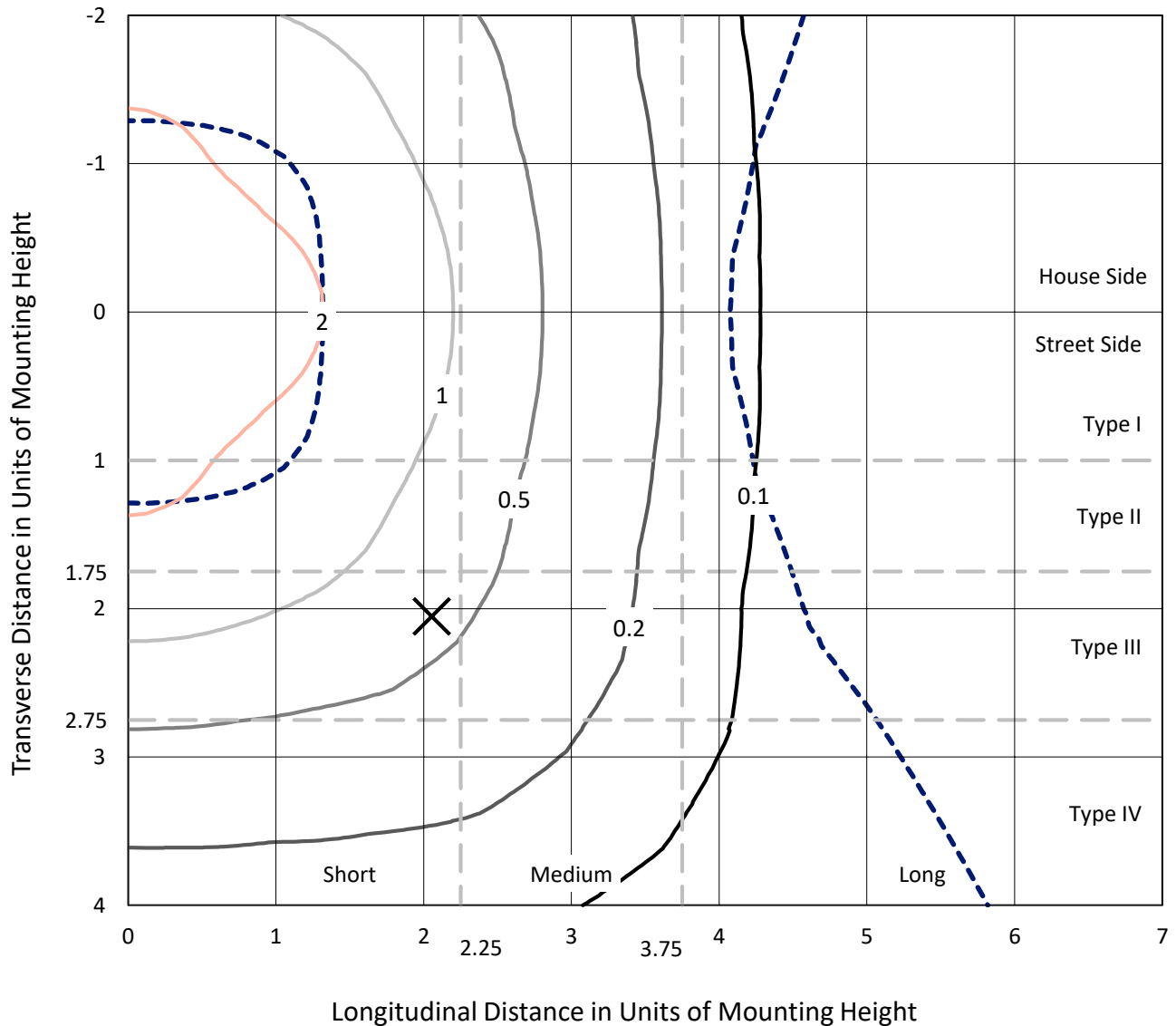


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

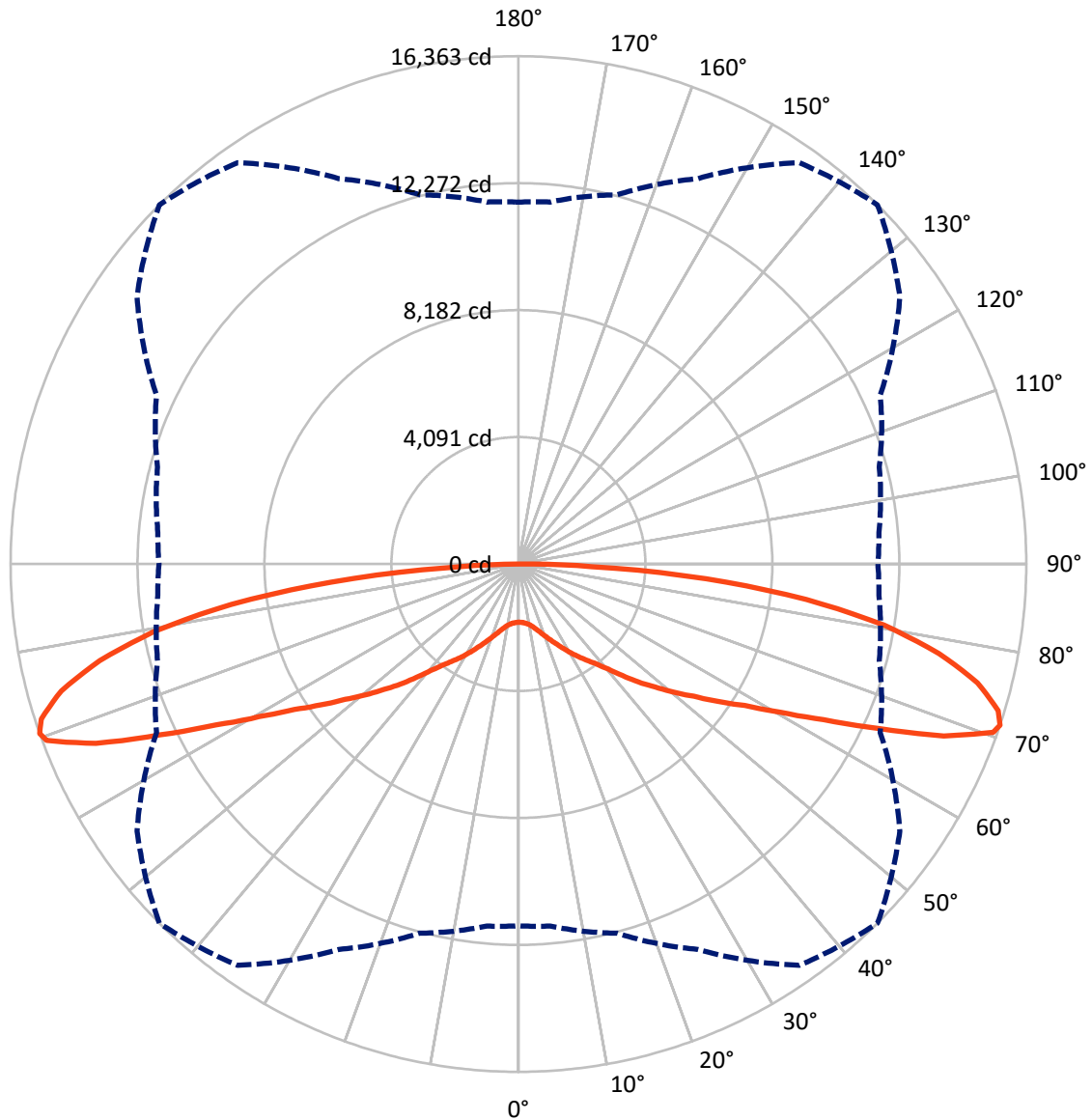


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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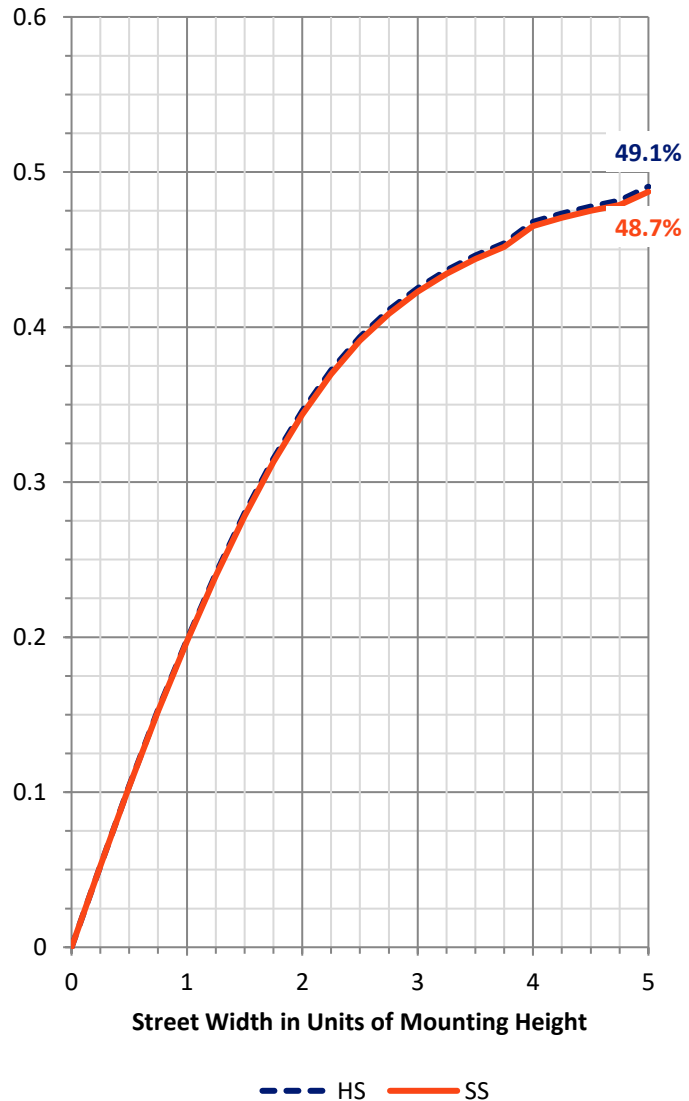
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22143.5 | 0.0 | 22143.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22143.5 | 0.0 | 22143.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44287.0 | 0.0 | 44287.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 183.8 | 0.4 |
| 10°-20° | 619.5 | 1.4 |
| 20°-30° | 1302.8 | 2.9 |
| 30°-40° | 2399.5 | 5.4 |
| 40°-50° | 4405.5 | 9.9 |
| 50°-60° | 7678.4 | 17.3 |
| 60°-70° | 12408.1 | 28.0 |
| 70°-80° | 11956.0 | 27.0 |
| 80°-90° | 3333.3 | 7.5 |
| 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° | 44287.0 | 100.0 |
| 0°-180° | 44287.0 | 100.0 |



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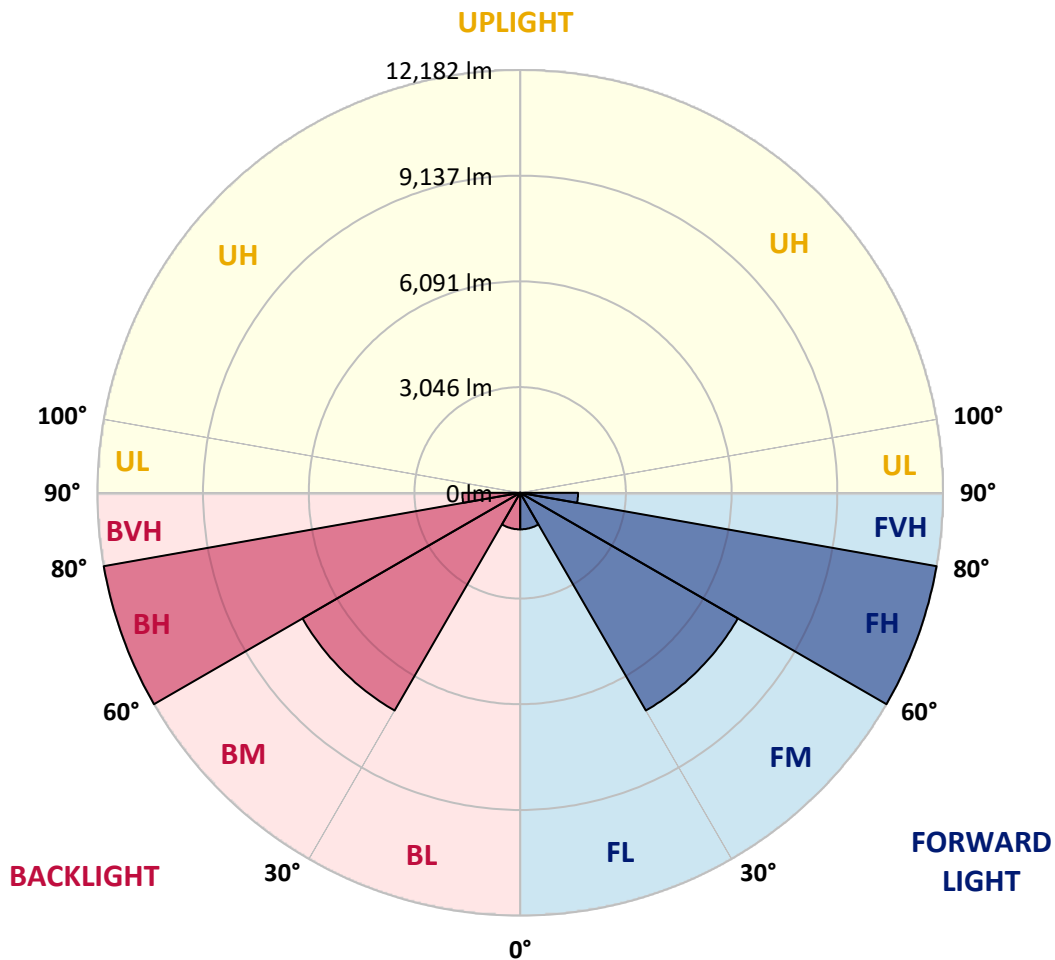
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----|
| | | | | B | U | G |
| FL | (0°-30°) | 1053.1 | 2.4 | | | |
| FM | (30°-60°) | 7241.7 | 16.4 | | | |
| FH | (60°-80°) | 12182.1 | 27.5 | | | G5 |
| FVH | (80°-90°) | 1666.7 | 3.8 | | | G5 |
| BL | (0°-30°) | 1053.1 | 2.4 | B3/2500 | | |
| BM | (30°-60°) | 7241.7 | 16.4 | B4/8500 | | |
| BH | (60°-80°) | 12182.1 | 27.5 | B5 | | G5 |
| BVH | (80°-90°) | 1666.7 | 3.8 | | | G5 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1873.6 | 1873.6 | 1873.6 | 1873.6 | 1873.6 | 1873.6 | 1873.6 | 1873.6 | 1873.6 | 1873.6 | 1873.6 |
| 2.5° | 1881.5 | 1890.9 | 1886.2 | 1883.0 | 1884.6 | 1883.0 | 1879.9 | 1876.7 | 1873.6 | 1872.0 | 1872.0 |
| 5° | 1895.6 | 1901.9 | 1900.3 | 1898.8 | 1900.3 | 1903.5 | 1901.9 | 1900.3 | 1895.6 | 1892.5 | 1892.5 |
| 7.5° | 1930.3 | 1931.8 | 1933.4 | 1931.8 | 1931.8 | 1936.6 | 1933.4 | 1931.8 | 1922.4 | 1920.8 | 1917.7 |
| 10° | 1983.8 | 1982.2 | 1986.9 | 1988.5 | 1988.5 | 1991.7 | 1982.2 | 1975.9 | 1958.6 | 1957.0 | 1953.9 |
| 12.5° | 2046.8 | 2046.8 | 2053.1 | 2060.9 | 2067.2 | 2073.5 | 2056.2 | 2042.0 | 2018.4 | 2009.0 | 2010.6 |
| 15° | 2133.4 | 2131.8 | 2139.7 | 2157.0 | 2174.3 | 2186.9 | 2161.7 | 2138.1 | 2106.6 | 2094.0 | 2097.2 |
| 17.5° | 2246.7 | 2245.1 | 2257.7 | 2278.2 | 2306.6 | 2325.4 | 2290.8 | 2256.2 | 2227.8 | 2212.1 | 2212.1 |
| 20° | 2385.3 | 2386.8 | 2396.3 | 2423.1 | 2459.3 | 2482.9 | 2438.8 | 2393.1 | 2372.7 | 2358.5 | 2355.4 |
| 22.5° | 2547.4 | 2560.0 | 2555.3 | 2586.8 | 2635.6 | 2662.4 | 2610.4 | 2560.0 | 2541.1 | 2531.7 | 2528.5 |
| 25° | 2739.5 | 2752.1 | 2739.5 | 2771.0 | 2832.4 | 2859.2 | 2805.6 | 2750.5 | 2741.1 | 2734.8 | 2731.6 |
| 27.5° | 2953.6 | 2955.2 | 2952.1 | 2969.4 | 3052.8 | 3079.6 | 3008.8 | 2959.9 | 2964.7 | 2961.5 | 2956.8 |
| 30° | 3186.7 | 3185.1 | 3181.9 | 3177.2 | 3282.7 | 3315.8 | 3237.0 | 3197.7 | 3213.4 | 3204.0 | 3204.0 |
| 32.5° | 3446.4 | 3441.7 | 3424.4 | 3435.4 | 3498.4 | 3563.0 | 3470.1 | 3446.4 | 3492.1 | 3485.8 | 3492.1 |
| 35° | 3731.4 | 3729.8 | 3696.8 | 3707.8 | 3751.9 | 3810.1 | 3739.3 | 3728.3 | 3797.5 | 3813.3 | 3822.7 |
| 37.5° | 4055.8 | 4057.3 | 4011.7 | 4005.4 | 4041.6 | 4084.1 | 4057.3 | 4085.7 | 4188.0 | 4241.5 | 4227.4 |
| 40° | 4476.1 | 4469.8 | 4408.4 | 4358.0 | 4395.8 | 4450.9 | 4479.3 | 4558.0 | 4715.4 | 4795.7 | 4803.6 |
| 42.5° | 5044.5 | 5028.8 | 4957.9 | 4860.3 | 4879.2 | 4915.4 | 5000.4 | 5137.4 | 5326.3 | 5401.9 | 5379.9 |
| 45° | 5718.4 | 5690.0 | 5586.1 | 5474.3 | 5414.5 | 5427.1 | 5507.4 | 5677.4 | 5904.1 | 6004.9 | 6022.2 |
| 47.5° | 6480.4 | 6447.3 | 6291.5 | 6080.5 | 5935.6 | 5919.9 | 6000.2 | 6228.5 | 6504.0 | 6626.8 | 6620.5 |
| 50° | 7338.5 | 7297.5 | 7132.2 | 6807.9 | 6538.6 | 6493.0 | 6548.1 | 6831.5 | 7154.2 | 7319.6 | 7310.1 |
| 52.5° | 8275.2 | 8217.0 | 8035.9 | 7617.1 | 7259.7 | 7081.8 | 7162.1 | 7502.2 | 7831.3 | 8043.8 | 8051.7 |
| 55° | 9229.4 | 9216.8 | 8983.7 | 8561.8 | 8073.7 | 7810.8 | 7865.9 | 8231.2 | 8637.4 | 8853.1 | 8843.6 |
| 57.5° | 10191.3 | 10158.3 | 9974.1 | 9531.6 | 9043.6 | 8604.3 | 8664.1 | 9064.0 | 9479.7 | 9706.4 | 9698.5 |
| 60° | 11131.3 | 11085.6 | 10942.3 | 10611.7 | 10200.8 | 9692.2 | 9654.5 | 10037.0 | 10402.3 | 10613.3 | 10594.4 |
| 62.5° | 12107.4 | 12105.9 | 11989.3 | 11731.1 | 11512.3 | 11036.8 | 10852.6 | 11118.7 | 11441.4 | 11639.8 | 11628.8 |
| 65° | 12982.8 | 12989.1 | 13004.9 | 13012.7 | 13034.8 | 12782.9 | 12368.8 | 12332.6 | 12571.9 | 12690.0 | 12656.9 |
| 67.5° | 12998.6 | 13056.8 | 13332.3 | 13900.7 | 14686.4 | 14787.1 | 13977.9 | 13237.9 | 12963.9 | 12822.2 | 12804.9 |
| 70° | 12135.8 | 12206.6 | 12732.5 | 13889.7 | 15676.7 | 16234.0 | 14883.2 | 13102.5 | 12419.2 | 12058.6 | 11989.3 |
| 71° | 11657.1 | 11709.1 | 12315.3 | 13702.3 | 15783.7 | 16363.1 | 15001.2 | 12864.7 | 12038.2 | 11660.3 | 11581.6 |
| 72.5° | 10808.5 | 10855.7 | 11627.2 | 13203.2 | 15634.2 | 16166.3 | 14884.7 | 12408.1 | 11365.9 | 10903.0 | 10813.2 |
| 75° | 9152.2 | 9276.6 | 10029.2 | 11983.0 | 14744.6 | 15283.1 | 14091.2 | 11197.4 | 9895.3 | 9215.2 | 9149.1 |
| 77.5° | 6817.3 | 7033.0 | 7946.2 | 10111.0 | 13135.5 | 13850.3 | 12622.3 | 9423.0 | 7913.1 | 7165.3 | 7083.4 |
| 80° | 3849.5 | 4068.3 | 5318.5 | 7665.9 | 11006.9 | 11945.3 | 10482.6 | 7151.1 | 5623.9 | 4674.5 | 4570.6 |
| 82.5° | 1424.9 | 1379.2 | 2555.3 | 4827.2 | 8198.1 | 9341.1 | 7672.2 | 4661.9 | 3095.3 | 2146.0 | 2079.8 |
| 85° | 314.9 | 472.3 | 1127.3 | 2432.5 | 5173.6 | 6066.3 | 4526.5 | 2350.6 | 1199.7 | 618.8 | 577.8 |
| 87.5° | 86.6 | 154.3 | 387.3 | 1020.2 | 2084.6 | 2363.2 | 1706.7 | 637.6 | 192.1 | 75.6 | 75.6 |
| 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)