

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: P400154

Luminaire Tested: **ARCH-L-PA3-240-750-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-750-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33820 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

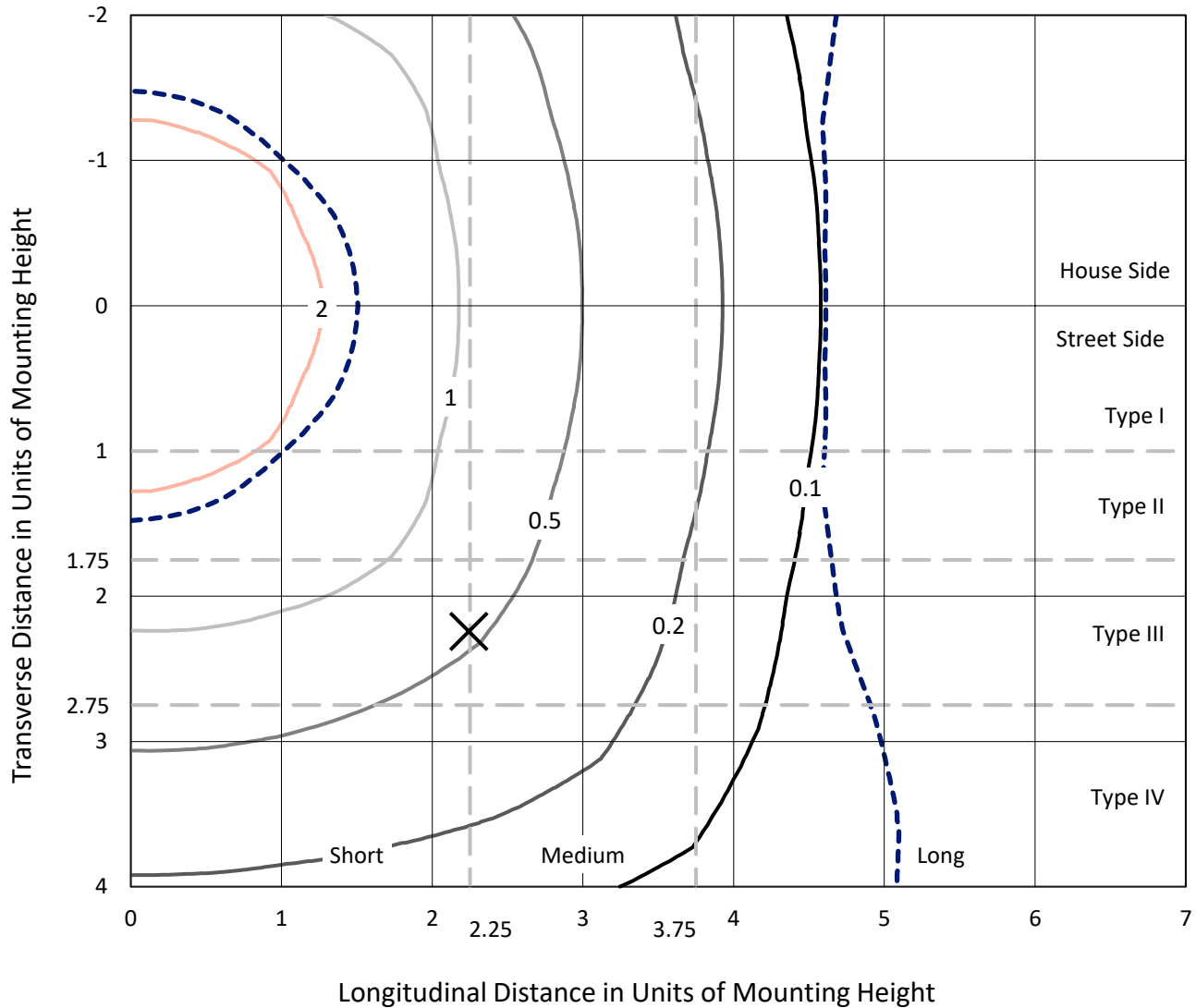
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

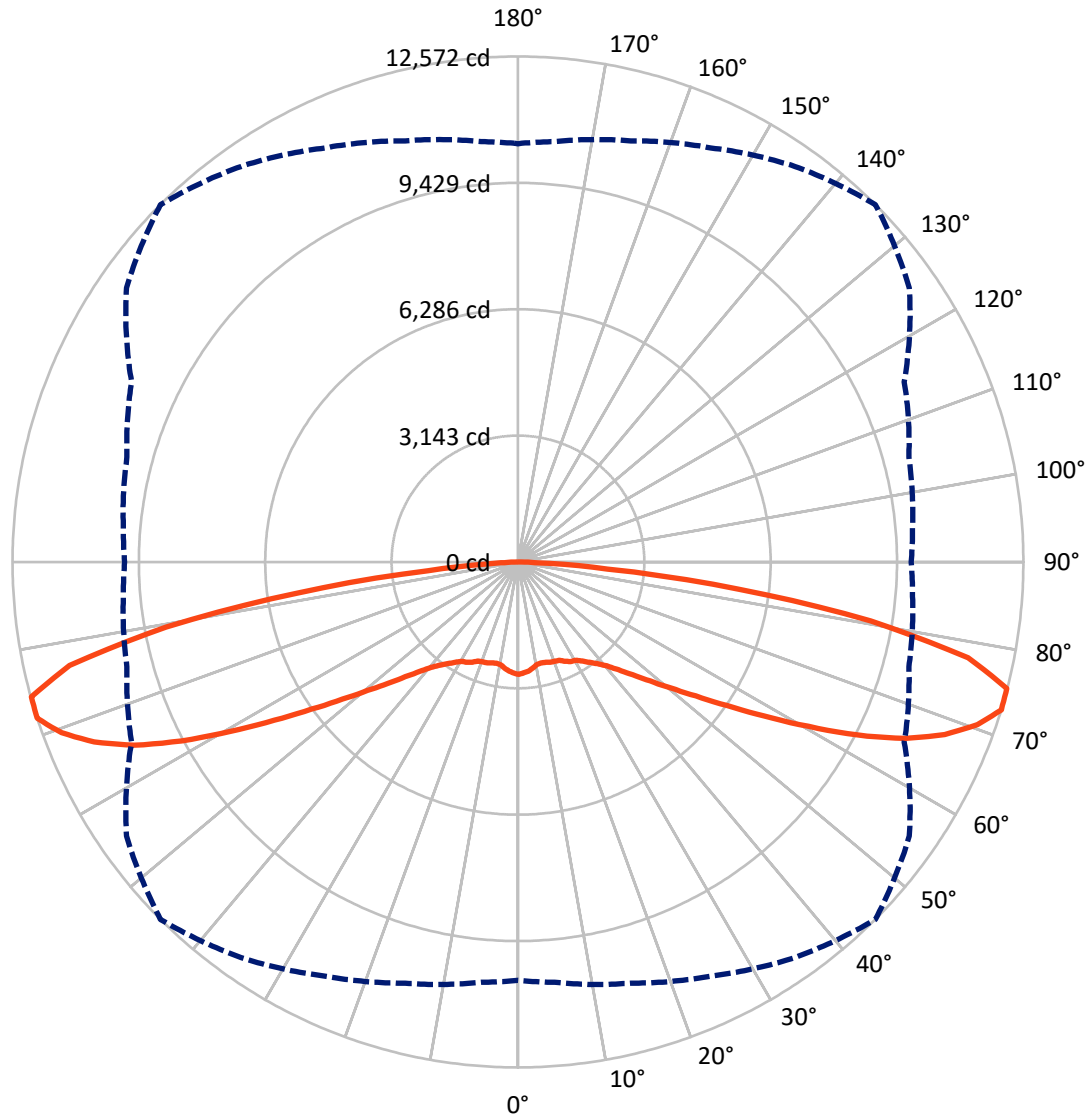
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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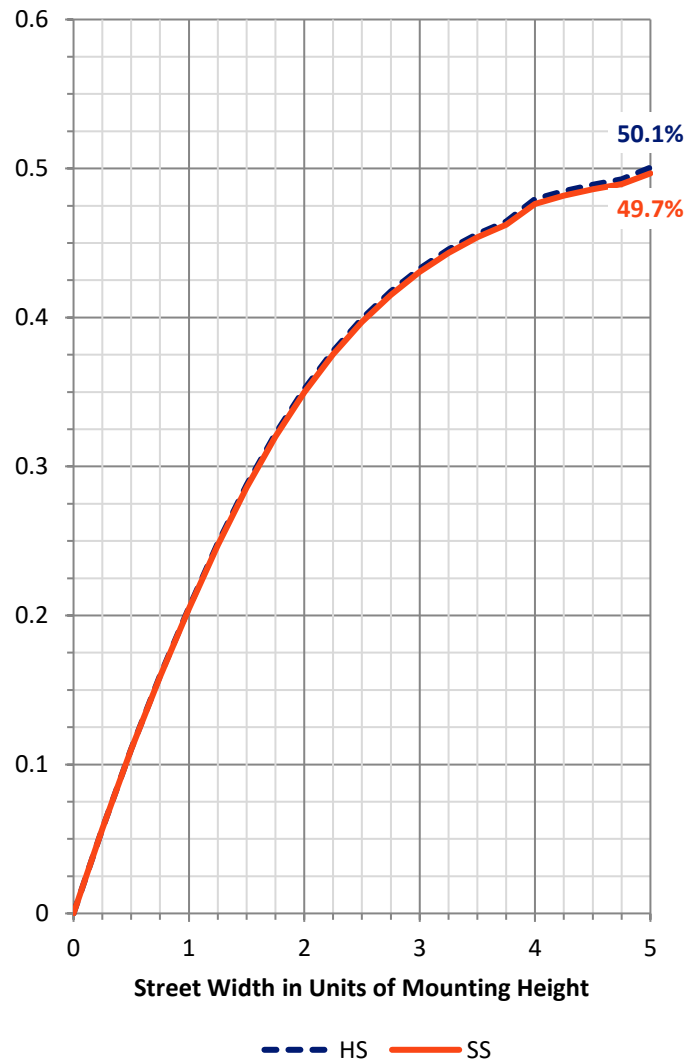
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16910.0 | 0.0 | 16910.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16910.0 | 0.0 | 16910.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33820.0 | 0.0 | 33820.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 256.6 | 0.8 |
| 10°-20° | 744.9 | 2.2 |
| 20°-30° | 1265.7 | 3.7 |
| 30°-40° | 1930.6 | 5.7 |
| 40°-50° | 3178.9 | 9.4 |
| 50°-60° | 5551.3 | 16.4 |
| 60°-70° | 9307.0 | 27.5 |
| 70°-80° | 9960.4 | 29.5 |
| 80°-90° | 1624.5 | 4.8 |
| 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° | 33820.0 | 100.0 |
| 0°-180° | 33820.0 | 100.0 |



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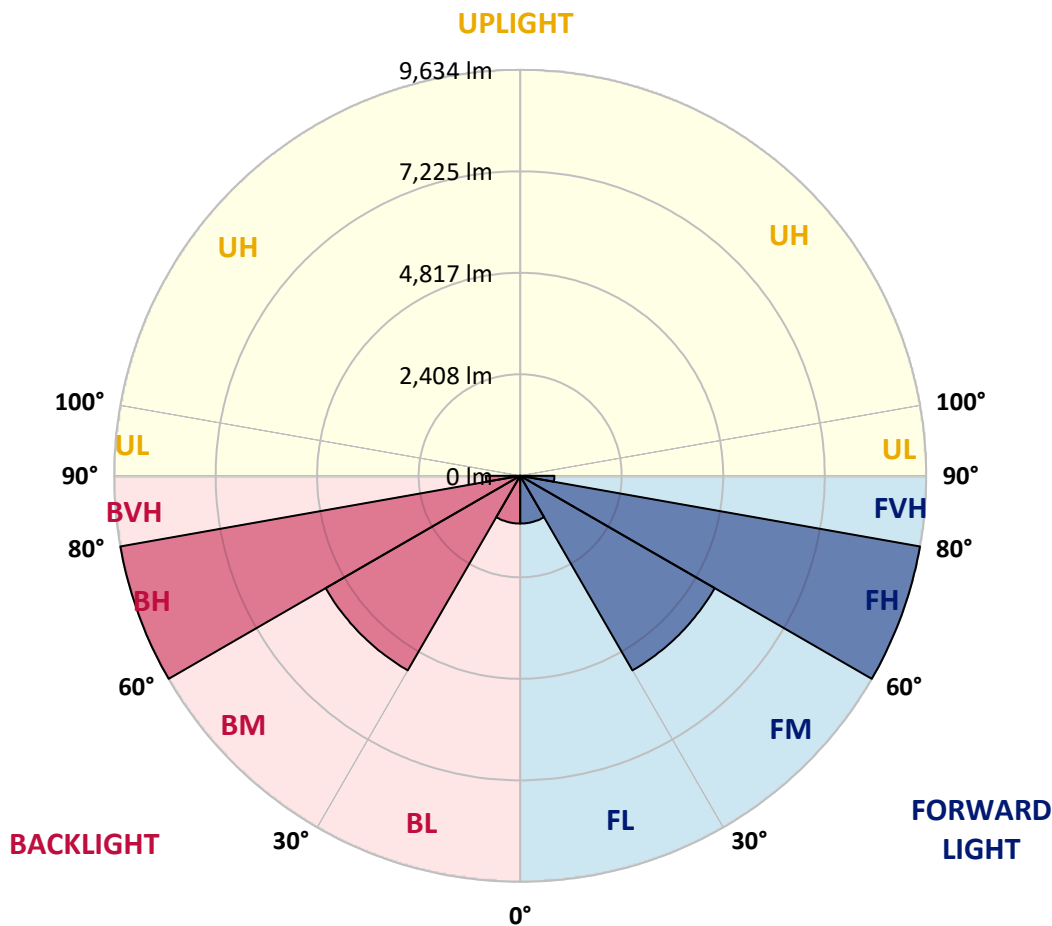
CATALOG NUMBER: ARCH-L-PA3-240-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1133.6 | 3.4 | | | |
| FM (30°-60°) | 5330.4 | 15.8 | | | |
| FH (60°-80°) | 9633.7 | 28.5 | | | G4/12000 |
| FVH (80°-90°) | 812.3 | 2.4 | | | G5 |
| BL (0°-30°) | 1133.6 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 5330.4 | 15.8 | B4/8500 | | |
| BH (60°-80°) | 9633.7 | 28.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 812.3 | 2.4 | | | 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° | 2798.6 | 2798.6 | 2798.6 | 2798.6 | 2798.6 | 2798.6 | 2798.6 | 2798.6 | 2798.6 | 2798.6 | 2798.6 |
| 2.5° | 2781.4 | 2781.4 | 2781.4 | 2777.0 | 2768.4 | 2764.1 | 2755.5 | 2759.8 | 2759.8 | 2759.8 | 2759.8 |
| 5° | 2746.8 | 2746.8 | 2742.5 | 2738.2 | 2729.5 | 2725.2 | 2716.6 | 2725.2 | 2725.2 | 2725.2 | 2725.2 |
| 7.5° | 2682.0 | 2686.4 | 2686.4 | 2682.0 | 2669.1 | 2664.8 | 2651.8 | 2656.1 | 2656.1 | 2660.4 | 2656.1 |
| 10° | 2647.5 | 2647.5 | 2643.2 | 2621.6 | 2600.0 | 2591.3 | 2587.0 | 2600.0 | 2612.9 | 2625.9 | 2625.9 |
| 12.5° | 2647.5 | 2647.5 | 2638.8 | 2604.3 | 2574.1 | 2574.1 | 2574.1 | 2591.3 | 2617.2 | 2643.2 | 2647.5 |
| 15° | 2660.4 | 2660.4 | 2643.2 | 2604.3 | 2587.0 | 2591.3 | 2591.3 | 2608.6 | 2638.8 | 2673.4 | 2677.7 |
| 17.5° | 2669.1 | 2669.1 | 2647.5 | 2608.6 | 2608.6 | 2621.6 | 2612.9 | 2625.9 | 2656.1 | 2695.0 | 2699.3 |
| 20° | 2682.0 | 2682.0 | 2651.8 | 2621.6 | 2621.6 | 2634.5 | 2634.5 | 2647.5 | 2673.4 | 2712.3 | 2716.6 |
| 22.5° | 2707.9 | 2703.6 | 2673.4 | 2647.5 | 2647.5 | 2656.1 | 2664.8 | 2682.0 | 2703.6 | 2738.2 | 2746.8 |
| 25° | 2738.2 | 2738.2 | 2712.3 | 2707.9 | 2716.6 | 2738.2 | 2733.9 | 2729.5 | 2738.2 | 2768.4 | 2781.4 |
| 27.5° | 2755.5 | 2755.5 | 2738.2 | 2751.1 | 2785.7 | 2803.0 | 2781.4 | 2764.1 | 2764.1 | 2794.3 | 2798.6 |
| 30° | 2811.6 | 2807.3 | 2790.0 | 2798.6 | 2828.9 | 2837.5 | 2824.6 | 2803.0 | 2815.9 | 2850.5 | 2854.8 |
| 32.5° | 2906.6 | 2906.6 | 2880.7 | 2880.7 | 2902.3 | 2936.8 | 2893.7 | 2880.7 | 2898.0 | 2936.8 | 2941.2 |
| 35° | 3053.5 | 3053.5 | 3018.9 | 3001.6 | 3018.9 | 3066.4 | 3001.6 | 2997.3 | 3027.5 | 3070.7 | 3075.1 |
| 37.5° | 3239.2 | 3239.2 | 3217.6 | 3174.4 | 3178.7 | 3208.9 | 3152.8 | 3148.5 | 3204.6 | 3252.1 | 3252.1 |
| 40° | 3472.4 | 3485.3 | 3463.8 | 3411.9 | 3394.6 | 3399.0 | 3355.8 | 3360.1 | 3424.9 | 3481.0 | 3481.0 |
| 42.5° | 3761.8 | 3770.4 | 3735.8 | 3697.0 | 3675.4 | 3662.4 | 3619.2 | 3627.9 | 3705.6 | 3779.0 | 3779.0 |
| 45° | 4111.6 | 4115.9 | 4081.4 | 4033.8 | 4007.9 | 3999.3 | 3956.1 | 3977.7 | 4064.1 | 4141.8 | 4137.5 |
| 47.5° | 4504.6 | 4508.9 | 4474.4 | 4426.9 | 4409.6 | 4422.5 | 4379.4 | 4379.4 | 4457.1 | 4521.9 | 4513.2 |
| 50° | 4949.5 | 4958.1 | 4919.2 | 4897.6 | 4884.7 | 4919.2 | 4867.4 | 4819.9 | 4871.7 | 4936.5 | 4927.9 |
| 52.5° | 5441.8 | 5463.4 | 5437.5 | 5446.1 | 5493.6 | 5536.8 | 5450.4 | 5346.8 | 5372.7 | 5415.9 | 5402.9 |
| 55° | 6037.8 | 6063.7 | 6072.4 | 6102.6 | 6227.8 | 6301.3 | 6158.7 | 5986.0 | 5973.0 | 5977.3 | 5955.8 |
| 57.5° | 6707.2 | 6724.5 | 6780.7 | 6849.8 | 7108.9 | 7225.5 | 7000.9 | 6702.9 | 6607.9 | 6551.8 | 6538.8 |
| 60° | 7381.0 | 7411.2 | 7549.4 | 7691.9 | 8089.3 | 8300.9 | 7955.4 | 7454.4 | 7251.4 | 7147.8 | 7126.2 |
| 62.5° | 8059.1 | 8119.5 | 8344.1 | 8586.0 | 9164.7 | 9480.0 | 8948.7 | 8223.2 | 7929.5 | 7799.9 | 7765.4 |
| 65° | 8845.1 | 8918.5 | 9190.6 | 9497.2 | 10140.8 | 10585.6 | 9942.1 | 9017.8 | 8702.6 | 8529.8 | 8486.6 |
| 67.5° | 9765.0 | 9842.8 | 10063.0 | 10404.2 | 11013.2 | 11449.4 | 10879.3 | 9829.8 | 9419.5 | 9199.2 | 9164.7 |
| 70° | 10520.8 | 10589.9 | 10827.5 | 11173.0 | 11626.5 | 12123.1 | 11579.0 | 10477.6 | 10106.2 | 9950.7 | 9929.1 |
| 72.5° | 10404.2 | 10494.9 | 10844.7 | 11363.0 | 12010.8 | 12572.3 | 11885.6 | 10602.9 | 10067.3 | 9851.4 | 9782.3 |
| 75° | 9087.0 | 9186.3 | 9600.9 | 10538.1 | 11721.5 | 12559.3 | 11440.7 | 9769.3 | 9138.8 | 8957.4 | 8922.8 |
| 77.5° | 6016.2 | 6111.2 | 6810.9 | 8288.0 | 10235.8 | 11445.1 | 10097.6 | 8184.3 | 7169.4 | 6733.2 | 6707.2 |
| 80° | 2431.5 | 2552.5 | 3221.9 | 4789.7 | 7255.7 | 8896.9 | 7489.0 | 5238.8 | 3532.9 | 2850.5 | 2712.3 |
| 82.5° | 565.8 | 673.7 | 980.4 | 1766.4 | 3714.2 | 5541.1 | 4038.2 | 1956.5 | 1135.9 | 807.6 | 725.6 |
| 85° | 237.5 | 241.9 | 418.9 | 574.4 | 1161.8 | 2237.2 | 1321.6 | 712.6 | 578.7 | 423.3 | 414.6 |
| 87.5° | 90.7 | 95.0 | 203.0 | 241.9 | 371.4 | 423.3 | 449.2 | 367.1 | 341.2 | 211.6 | 203.0 |
| 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)