

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: P479707

Luminaire Tested: **IFLD-L-SA8A-735-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479707
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

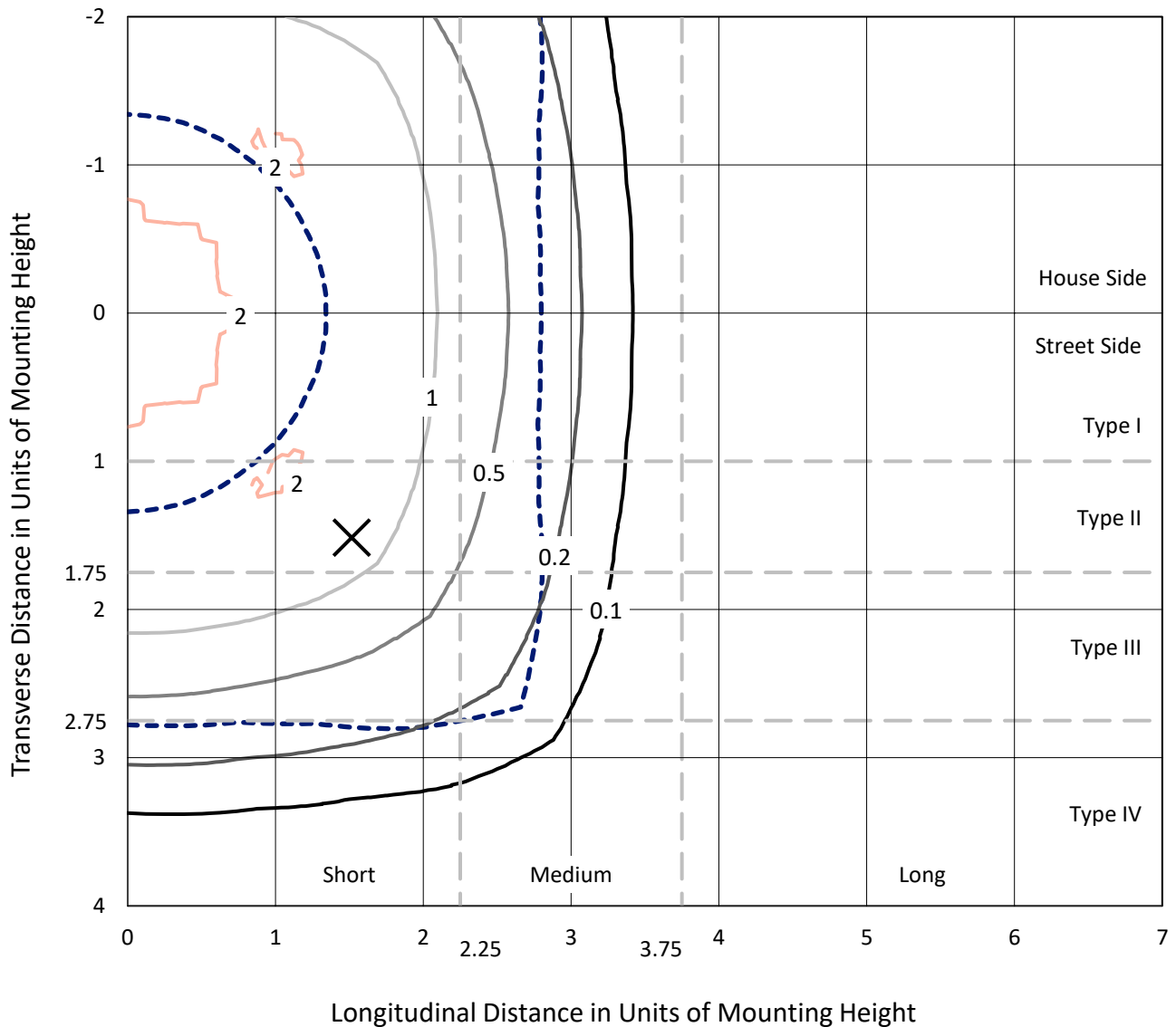
Lumens per Lamp: N/A
Luminaire Lumens: 34671.8 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
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

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Iso-Footcandle Lines of Horizontal Illumination

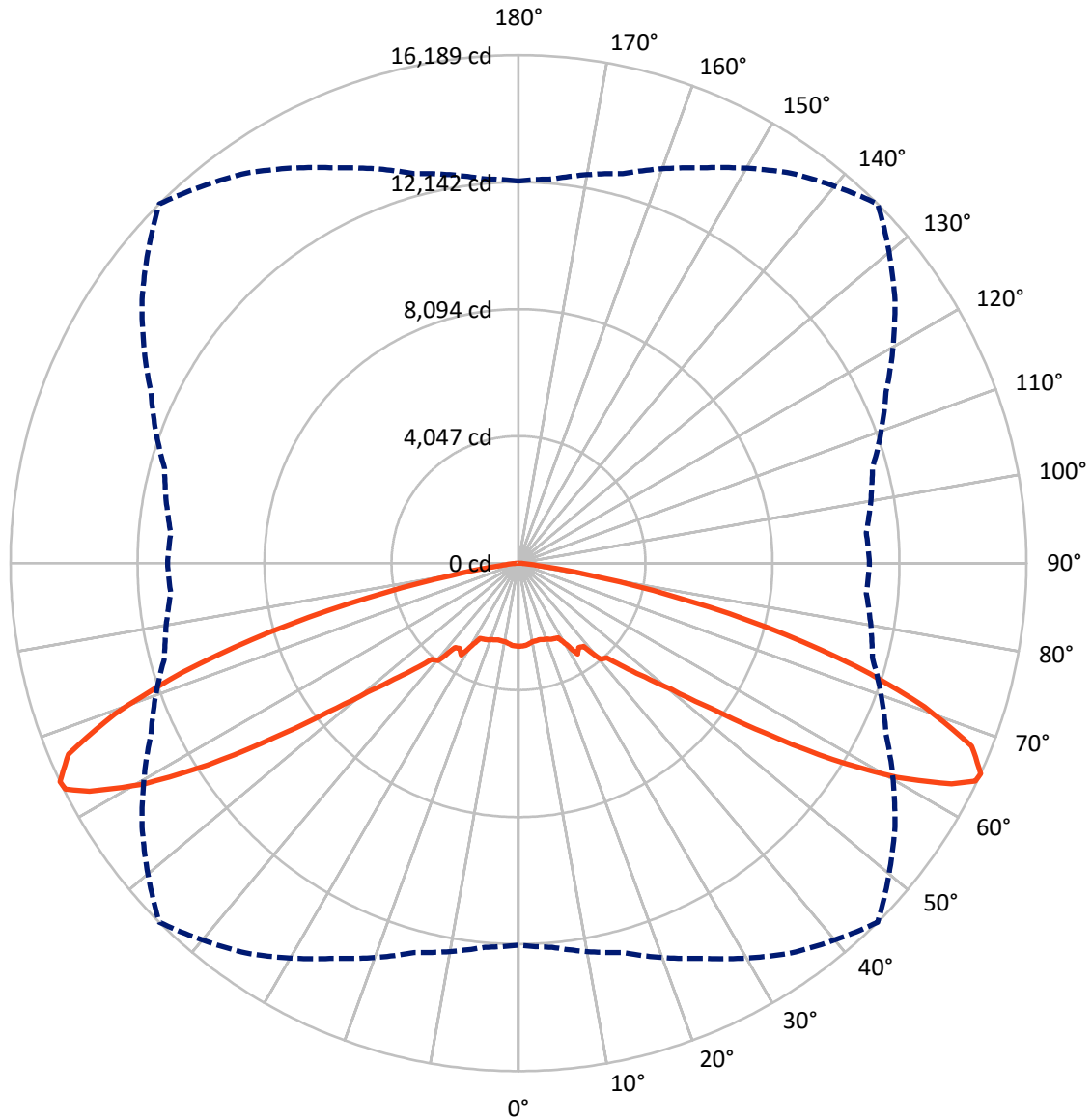
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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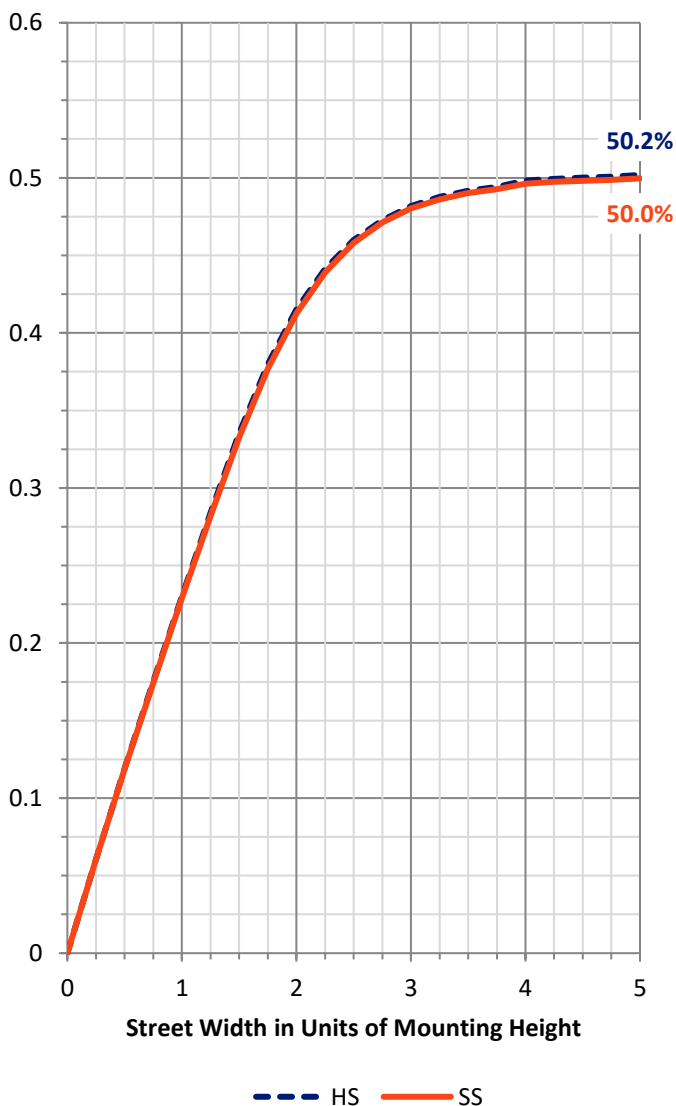
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17335.9 | 0.0 | 17335.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17335.9 | 0.0 | 17335.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34671.8 | 0.0 | 34671.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 248.8 | 0.7 |
| 10°-20° | 730.7 | 2.1 |
| 20°-30° | 1264.9 | 3.6 |
| 30°-40° | 2103.2 | 6.1 |
| 40°-50° | 3794.5 | 10.9 |
| 50°-60° | 8452.9 | 24.4 |
| 60°-70° | 12597.6 | 36.3 |
| 70°-80° | 5220.6 | 15.1 |
| 80°-90° | 258.6 | 0.7 |
| 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° | 34671.8 | 100.0 |
| 0°-180° | 34671.8 | 100.0 |

Coefficient of Utilization



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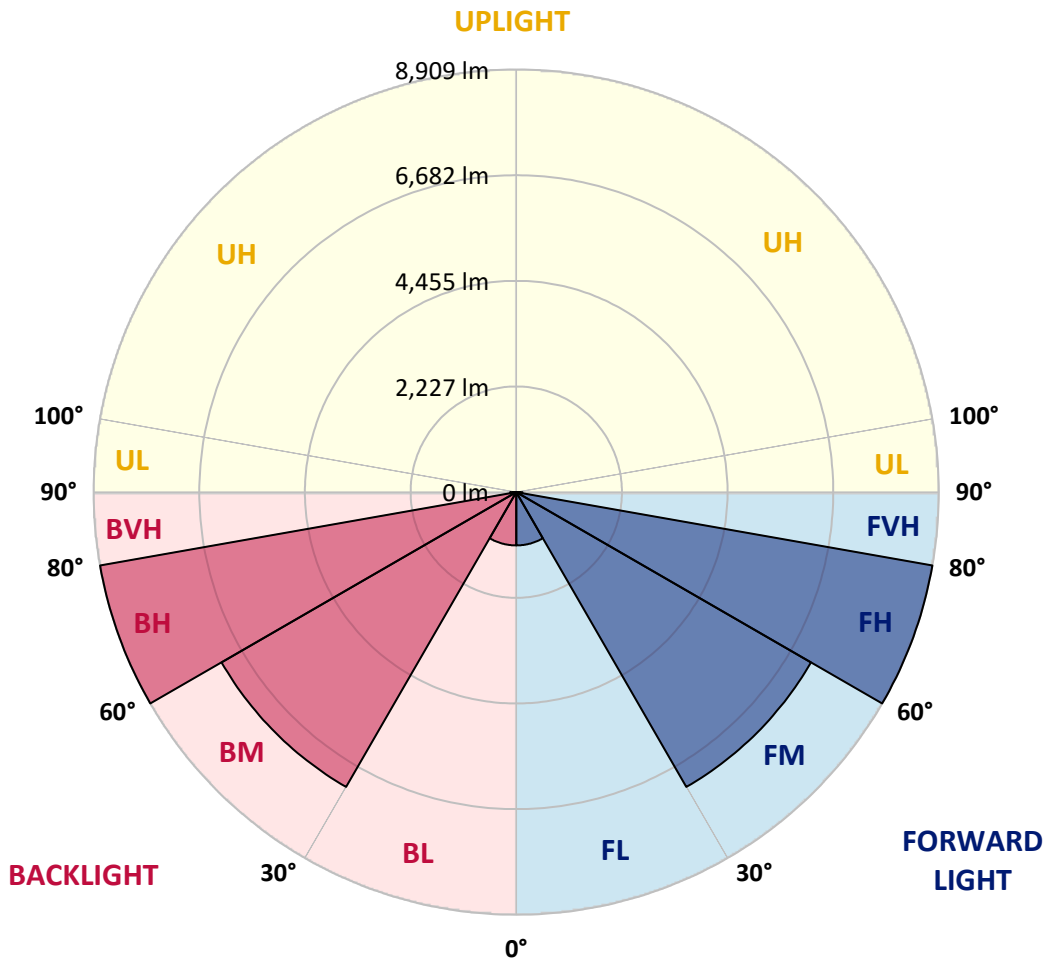
CATALOG NUMBER: IFLD-L-SA8A-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1122.2 | 3.2 | | | |
| FM (30°-60°) | 7175.3 | 20.7 | | | |
| FH (60°-80°) | 8909.1 | 25.7 | | | G4/12000 |
| FVH (80°-90°) | 129.3 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1122.2 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 7175.3 | 20.7 | B4/8500 | | |
| BH (60°-80°) | 8909.1 | 25.7 | B5 | | G4/12000 |
| BVH (80°-90°) | 129.3 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2650.9 | 2650.9 | 2650.9 | 2650.9 | 2650.9 | 2650.9 | 2650.9 | 2650.9 | 2650.9 | 2650.9 | 2650.9 |
| 2.5° | 2620.2 | 2627.9 | 2624.1 | 2624.1 | 2635.6 | 2643.2 | 2647.0 | 2685.4 | 2670.0 | 2681.5 | 2670.0 |
| 5° | 2627.9 | 2627.9 | 2635.6 | 2627.9 | 2635.6 | 2627.9 | 2635.6 | 2624.1 | 2635.6 | 2643.2 | 2654.7 |
| 7.5° | 2612.6 | 2604.9 | 2593.4 | 2593.4 | 2589.6 | 2581.9 | 2570.4 | 2601.1 | 2585.8 | 2597.2 | 2616.4 |
| 10° | 2616.4 | 2604.9 | 2566.6 | 2574.3 | 2539.8 | 2539.8 | 2547.4 | 2547.4 | 2581.9 | 2620.2 | 2631.7 |
| 12.5° | 2616.4 | 2593.4 | 2581.9 | 2532.1 | 2532.1 | 2536.0 | 2555.1 | 2562.8 | 2585.8 | 2601.1 | 2639.4 |
| 15° | 2616.4 | 2604.9 | 2585.8 | 2520.6 | 2536.0 | 2528.3 | 2547.4 | 2547.4 | 2597.2 | 2624.1 | 2643.2 |
| 17.5° | 2631.7 | 2639.4 | 2604.9 | 2543.6 | 2547.4 | 2562.8 | 2551.3 | 2562.8 | 2624.1 | 2643.2 | 2670.0 |
| 20° | 2635.6 | 2604.9 | 2593.4 | 2555.1 | 2589.6 | 2581.9 | 2578.1 | 2601.1 | 2620.2 | 2654.7 | 2685.4 |
| 22.5° | 2627.9 | 2639.4 | 2593.4 | 2589.6 | 2620.2 | 2635.6 | 2643.2 | 2616.4 | 2639.4 | 2662.4 | 2689.2 |
| 25° | 2693.0 | 2650.9 | 2639.4 | 2631.7 | 2647.0 | 2662.4 | 2654.7 | 2677.7 | 2677.7 | 2704.5 | 2739.0 |
| 27.5° | 2869.2 | 2873.1 | 2850.1 | 2758.1 | 2727.5 | 2693.0 | 2708.3 | 2769.6 | 2842.4 | 2899.9 | 2911.4 |
| 30° | 2949.7 | 2965.0 | 3026.3 | 3011.0 | 2999.5 | 3011.0 | 3007.1 | 3022.5 | 3030.1 | 3033.9 | 3022.5 |
| 32.5° | 3022.5 | 3014.8 | 2988.0 | 3056.9 | 3282.9 | 3455.3 | 3290.6 | 3064.6 | 3014.8 | 2999.5 | 3014.8 |
| 35° | 3286.8 | 3286.8 | 3229.3 | 3141.2 | 3260.0 | 3302.1 | 3225.5 | 3118.2 | 3179.5 | 3305.9 | 3313.6 |
| 37.5° | 3627.7 | 3577.9 | 3600.9 | 3589.4 | 3459.2 | 3367.2 | 3501.3 | 3570.3 | 3581.7 | 3577.9 | 3616.2 |
| 40° | 3830.7 | 3796.3 | 3761.8 | 3823.1 | 3941.8 | 4026.1 | 3907.4 | 3742.6 | 3784.8 | 3869.1 | 3834.6 |
| 42.5° | 4294.3 | 4206.2 | 4213.8 | 4152.5 | 4148.7 | 4121.9 | 4095.1 | 4106.6 | 4167.8 | 4263.6 | 4278.9 |
| 45° | 4769.3 | 4811.4 | 4784.6 | 4669.7 | 4723.3 | 4723.3 | 4646.7 | 4704.2 | 4734.8 | 4845.9 | 4861.2 |
| 47.5° | 5512.4 | 5493.3 | 5504.8 | 5401.3 | 5397.5 | 5424.3 | 5397.5 | 5401.3 | 5497.1 | 5489.5 | 5447.3 |
| 50° | 6382.0 | 6435.6 | 6451.0 | 6401.2 | 6339.9 | 6328.4 | 6286.2 | 6339.9 | 6397.3 | 6401.2 | 6366.7 |
| 52.5° | 7584.9 | 7642.3 | 7642.3 | 7657.7 | 7734.3 | 7696.0 | 7688.3 | 7692.1 | 7581.0 | 7504.4 | 7542.7 |
| 55° | 9101.8 | 9121.0 | 9186.1 | 9320.2 | 9553.9 | 9584.5 | 9439.0 | 9373.8 | 9170.8 | 9048.2 | 9144.0 |
| 57.5° | 10599.7 | 10676.3 | 10856.3 | 11204.9 | 11492.2 | 11806.3 | 11385.0 | 10955.9 | 10557.5 | 10362.2 | 10396.6 |
| 60° | 11844.7 | 11955.7 | 12300.5 | 12787.0 | 13583.8 | 13871.1 | 13158.6 | 12423.1 | 11614.8 | 11017.2 | 11258.6 |
| 62.5° | 12430.8 | 12603.1 | 12894.3 | 13878.8 | 15074.0 | 15487.7 | 14441.9 | 13105.0 | 11879.1 | 11304.5 | 11293.0 |
| 64° | 12434.6 | 12461.4 | 13043.7 | 14104.8 | 15334.5 | 16135.1 | 14752.2 | 13105.0 | 11944.3 | 11235.6 | 11365.8 |
| 65° | 12177.9 | 12289.0 | 12852.1 | 13897.9 | 15169.7 | 16188.7 | 14644.9 | 12924.9 | 11676.1 | 11124.5 | 11185.8 |
| 67.5° | 11013.4 | 11009.6 | 11530.5 | 12568.7 | 14334.6 | 15579.6 | 13733.2 | 11917.4 | 11013.4 | 10415.8 | 10488.6 |
| 70° | 8354.9 | 8488.9 | 8986.9 | 10262.6 | 12403.9 | 13737.0 | 12009.4 | 10128.5 | 9002.2 | 8523.4 | 8496.6 |
| 72.5° | 4999.1 | 5175.3 | 5811.2 | 7366.5 | 9634.3 | 11254.7 | 9530.9 | 7492.9 | 6136.9 | 5378.4 | 5397.5 |
| 75° | 2279.3 | 2409.5 | 2846.2 | 4114.2 | 6420.3 | 8228.4 | 6458.6 | 4332.6 | 3106.7 | 2624.1 | 2555.1 |
| 77.5° | 639.7 | 720.2 | 961.5 | 1888.6 | 3524.3 | 4934.0 | 3623.9 | 2087.8 | 1356.1 | 1126.2 | 1103.3 |
| 80° | 287.3 | 302.6 | 340.9 | 459.7 | 1118.6 | 2175.9 | 1497.8 | 766.1 | 509.5 | 421.4 | 402.2 |
| 82.5° | 157.1 | 168.6 | 222.2 | 237.5 | 318.0 | 578.4 | 494.2 | 360.1 | 306.5 | 245.2 | 237.5 |
| 85° | 88.1 | 91.9 | 126.4 | 126.4 | 153.2 | 168.6 | 180.0 | 191.5 | 187.7 | 137.9 | 134.1 |
| 87.5° | 26.8 | 30.6 | 38.3 | 38.3 | 38.3 | 38.3 | 61.3 | 84.3 | 91.9 | 65.1 | 65.1 |
| 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)