

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: P510552

Luminaire Tested: **CST-CA10-630-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-740-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 95187 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

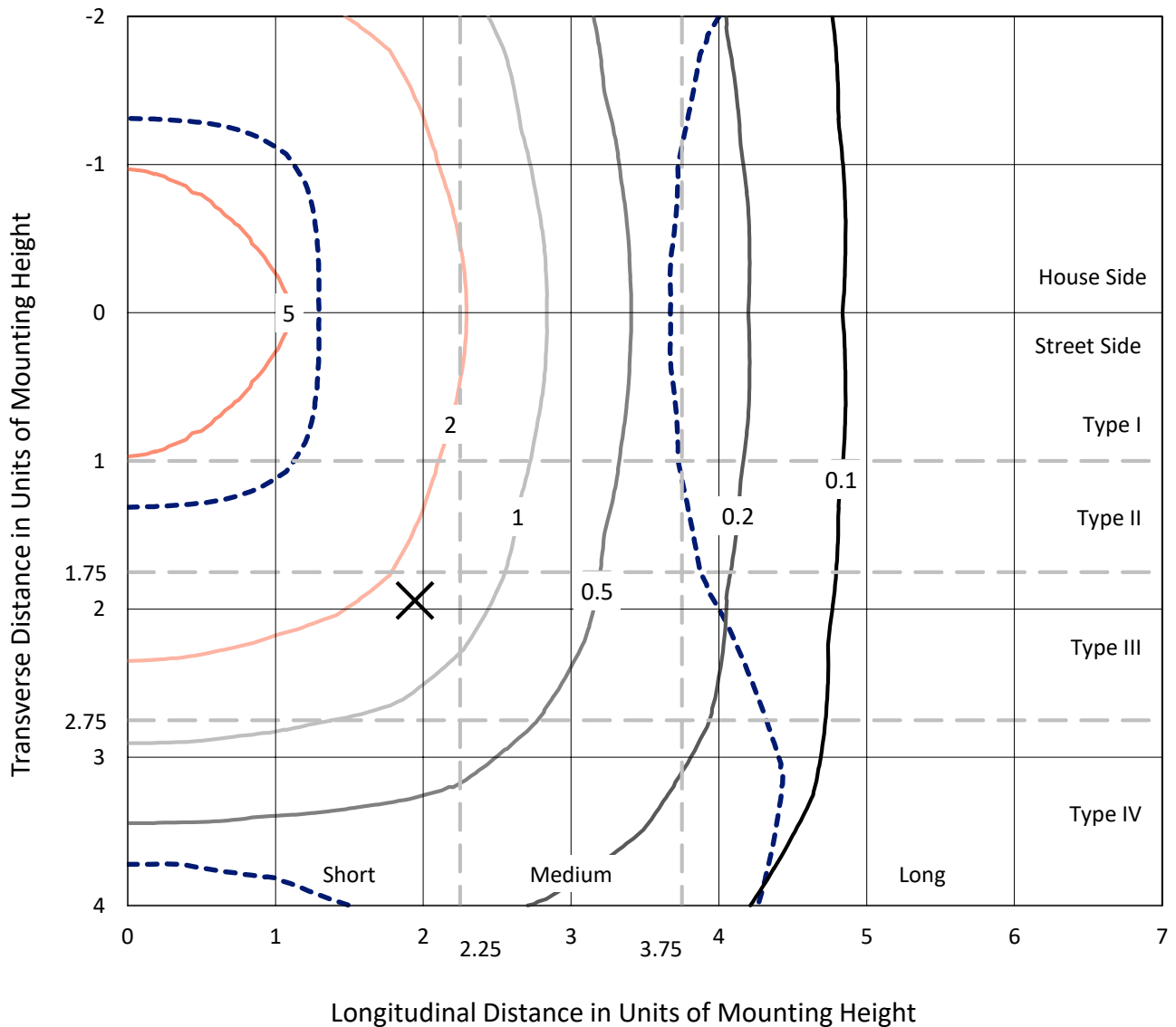
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

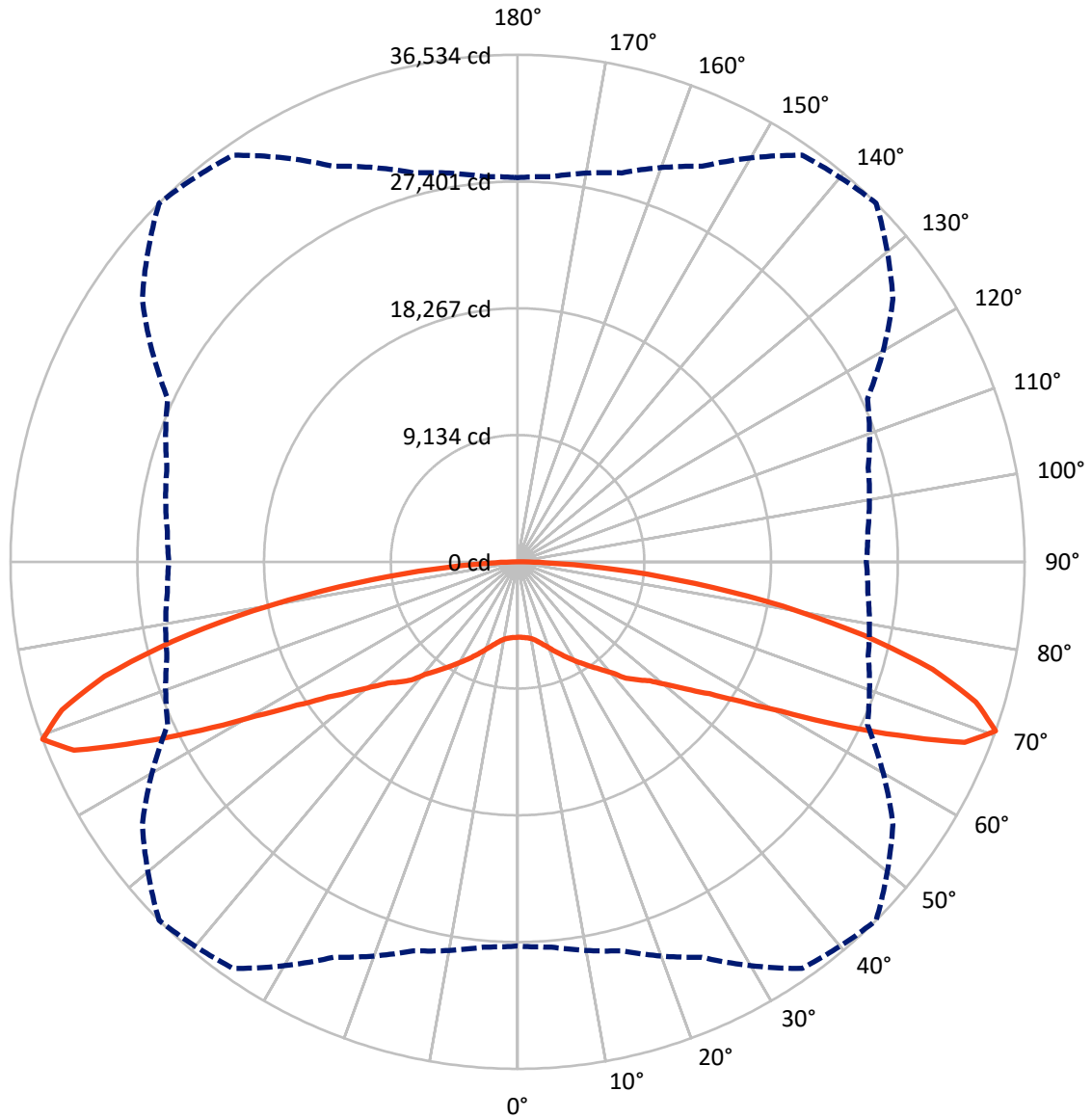
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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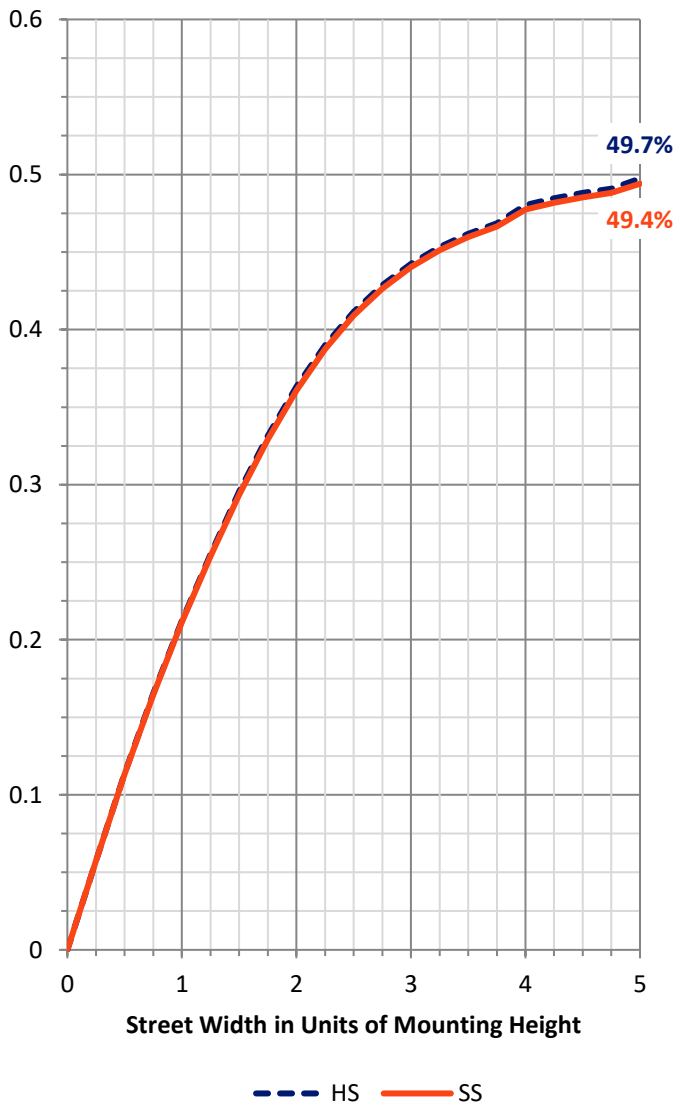
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 47593.5 | 0.0 | 47593.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 47593.5 | 0.0 | 47593.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 95187.0 | 0.0 | 95187.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 528.8 | 0.6 |
| 10°-20° | 1722.2 | 1.8 |
| 20°-30° | 3409.2 | 3.6 |
| 30°-40° | 5897.7 | 6.2 |
| 40°-50° | 9812.8 | 10.3 |
| 50°-60° | 17115.1 | 18.0 |
| 60°-70° | 28333.3 | 29.8 |
| 70°-80° | 23745.5 | 24.9 |
| 80°-90° | 4622.5 | 4.9 |
| 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° | 95187.0 | 100.0 |
| 0°-180° | 95187.0 | 100.0 |

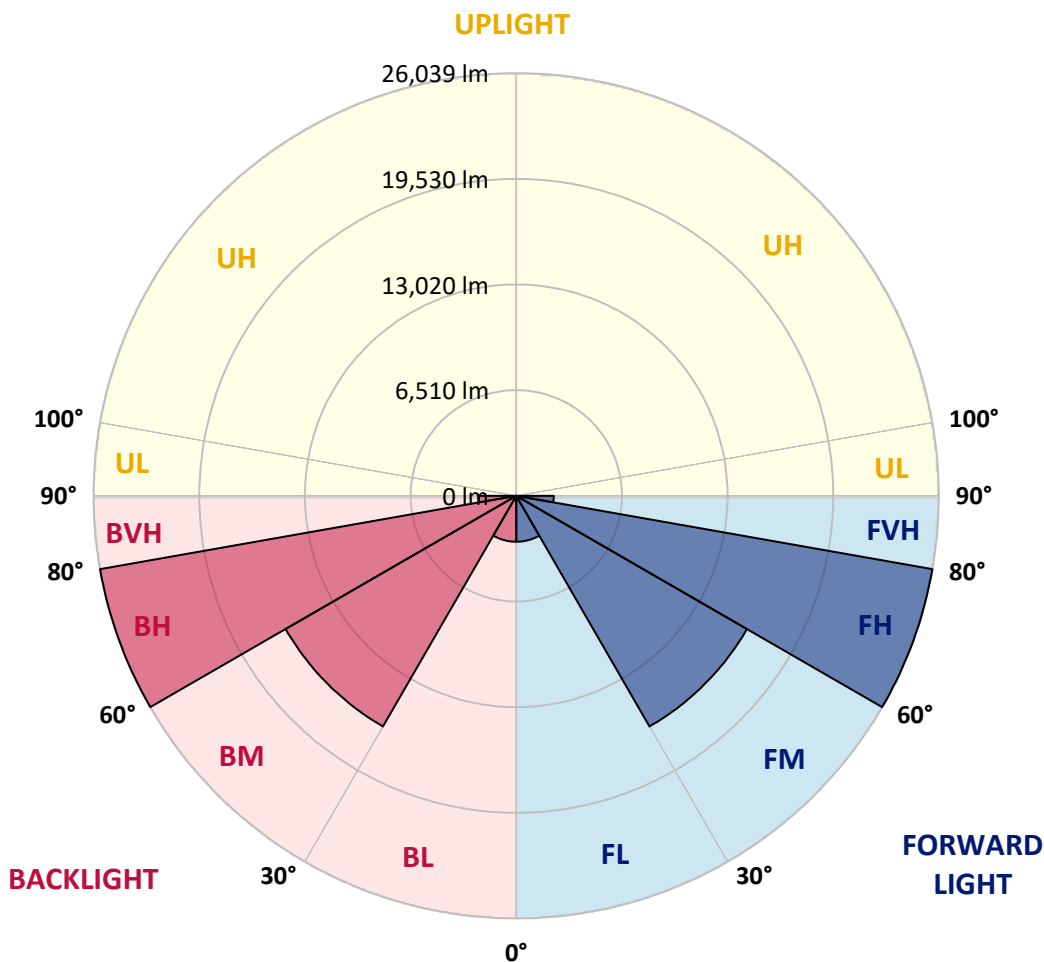


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----|
| | | | B | U | G |
| FL (0°-30°) | 2830.1 | 3.0 | | | |
| FM (30°-60°) | 16412.8 | 17.2 | | | |
| FH (60°-80°) | 26039.4 | 27.4 | | | G5 |
| FVH (80°-90°) | 2311.2 | 2.4 | | | G5 |
| BL (0°-30°) | 2830.1 | 3.0 | B4/5000 | | |
| BM (30°-60°) | 16412.8 | 17.2 | B5 | | |
| BH (60°-80°) | 26039.4 | 27.4 | B5 | | G5 |
| BVH (80°-90°) | 2311.2 | 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° | 5440.2 | 5440.2 | 5440.2 | 5440.2 | 5440.2 | 5440.2 | 5440.2 | 5440.2 | 5440.2 | 5440.2 | 5440.2 |
| 2.5° | 5474.2 | 5457.2 | 5451.5 | 5445.9 | 5449.7 | 5447.8 | 5457.2 | 5461.0 | 5464.7 | 5481.7 | 5472.3 |
| 5° | 5508.1 | 5494.9 | 5493.0 | 5485.5 | 5483.6 | 5483.6 | 5496.8 | 5498.7 | 5500.6 | 5511.9 | 5500.6 |
| 7.5° | 5570.3 | 5557.1 | 5553.3 | 5549.6 | 5547.7 | 5540.1 | 5549.6 | 5545.8 | 5549.6 | 5555.2 | 5542.0 |
| 10° | 5668.3 | 5653.2 | 5649.5 | 5640.1 | 5645.7 | 5634.4 | 5641.9 | 5632.5 | 5615.5 | 5619.3 | 5600.5 |
| 12.5° | 5802.2 | 5789.0 | 5794.6 | 5792.7 | 5815.4 | 5809.7 | 5794.6 | 5775.8 | 5747.5 | 5728.7 | 5707.9 |
| 15° | 6000.1 | 5979.4 | 5994.4 | 6009.5 | 6032.1 | 6041.6 | 6030.3 | 5979.4 | 5937.9 | 5907.7 | 5890.8 |
| 17.5° | 6241.4 | 6207.5 | 6237.6 | 6267.8 | 6316.8 | 6326.2 | 6284.7 | 6222.5 | 6177.3 | 6164.1 | 6135.8 |
| 20° | 6522.3 | 6516.6 | 6518.5 | 6567.5 | 6642.9 | 6656.1 | 6601.4 | 6527.9 | 6482.7 | 6484.6 | 6452.5 |
| 22.5° | 6861.6 | 6831.4 | 6840.8 | 6889.8 | 6997.3 | 7033.1 | 6942.6 | 6861.6 | 6833.3 | 6840.8 | 6837.1 |
| 25° | 7249.9 | 7221.6 | 7208.4 | 7231.0 | 7370.5 | 7432.7 | 7346.0 | 7251.8 | 7238.6 | 7255.5 | 7229.1 |
| 27.5° | 7675.9 | 7649.5 | 7634.4 | 7645.7 | 7755.1 | 7871.9 | 7775.8 | 7696.6 | 7694.8 | 7719.3 | 7704.2 |
| 30° | 8160.4 | 8120.8 | 8103.8 | 8117.0 | 8192.4 | 8305.5 | 8228.2 | 8181.1 | 8220.7 | 8237.6 | 8232.0 |
| 32.5° | 8650.5 | 8631.6 | 8626.0 | 8622.2 | 8714.6 | 8778.7 | 8741.0 | 8750.4 | 8782.4 | 8859.7 | 8835.2 |
| 35° | 9208.4 | 9153.8 | 9168.9 | 9180.2 | 9300.8 | 9306.5 | 9310.2 | 9327.2 | 9412.0 | 9521.4 | 9457.3 |
| 37.5° | 9789.0 | 9775.8 | 9785.3 | 9753.2 | 9841.8 | 9877.6 | 9930.4 | 9987.0 | 10120.8 | 10247.1 | 10220.7 |
| 40° | 10507.2 | 10482.7 | 10492.2 | 10454.5 | 10497.8 | 10526.1 | 10633.5 | 10756.1 | 10927.6 | 11063.3 | 11001.1 |
| 42.5° | 11459.2 | 11397.0 | 11397.0 | 11408.3 | 11498.8 | 11468.6 | 11698.6 | 11732.5 | 11945.5 | 12060.5 | 12024.7 |
| 45° | 12578.9 | 12556.3 | 12437.5 | 12237.7 | 12124.6 | 12122.7 | 12307.5 | 12582.7 | 12935.2 | 13174.6 | 13172.7 |
| 47.5° | 14002.1 | 13932.4 | 13647.7 | 13167.0 | 12880.5 | 12810.8 | 13004.9 | 13540.3 | 14188.7 | 14562.0 | 14556.3 |
| 50° | 15868.3 | 15779.7 | 15348.0 | 14601.6 | 14043.6 | 13872.0 | 14183.1 | 14876.8 | 15749.6 | 16247.2 | 16288.7 |
| 52.5° | 17956.9 | 17964.5 | 17476.3 | 16347.1 | 15521.5 | 15212.3 | 15542.2 | 16533.7 | 17621.4 | 18303.8 | 18384.8 |
| 55° | 20383.0 | 20324.6 | 19862.7 | 18582.8 | 17446.1 | 16782.6 | 17282.1 | 18596.0 | 19845.8 | 20366.0 | 20509.3 |
| 57.5° | 22909.0 | 22680.9 | 22326.5 | 21129.5 | 19800.5 | 18952.2 | 19551.7 | 20837.3 | 22034.3 | 22697.8 | 22675.2 |
| 60° | 25148.4 | 24997.6 | 24794.0 | 23840.2 | 22820.4 | 21851.4 | 22313.3 | 23400.9 | 24426.4 | 24827.9 | 24844.9 |
| 62.5° | 27595.2 | 27468.9 | 27286.0 | 26763.9 | 26202.1 | 25842.1 | 25423.6 | 25926.9 | 26728.1 | 27167.3 | 27310.5 |
| 65° | 29996.7 | 29951.5 | 30057.0 | 29977.9 | 30215.4 | 30162.6 | 29159.8 | 28843.1 | 28856.3 | 28731.9 | 28667.8 |
| 67.5° | 29855.3 | 29838.4 | 30460.4 | 31700.8 | 34068.4 | 34739.5 | 32166.4 | 29301.1 | 28009.9 | 27681.9 | 27634.8 |
| 70° | 27678.1 | 27861.0 | 29012.7 | 31440.7 | 35761.2 | 36534.1 | 33010.9 | 27810.1 | 26158.8 | 25336.9 | 25133.3 |
| 72.5° | 23489.5 | 23847.7 | 25614.0 | 29189.9 | 34354.9 | 34532.1 | 30888.3 | 25566.9 | 23135.2 | 22154.9 | 22009.8 |
| 75° | 18124.7 | 18169.9 | 19977.7 | 24522.5 | 30660.3 | 30882.7 | 27553.7 | 21444.3 | 19052.1 | 17832.5 | 17794.8 |
| 77.5° | 11038.8 | 11681.6 | 14318.8 | 18386.7 | 24373.6 | 25531.0 | 23044.7 | 17080.4 | 14235.9 | 13155.7 | 12552.5 |
| 80° | 5415.7 | 5709.8 | 7609.9 | 11625.1 | 17421.6 | 19361.3 | 17101.1 | 11813.6 | 8780.5 | 7410.1 | 7259.3 |
| 82.5° | 2465.6 | 2622.1 | 3600.4 | 6077.4 | 10512.9 | 12916.3 | 10554.4 | 6765.4 | 4688.1 | 3666.4 | 3632.5 |
| 85° | 957.6 | 951.9 | 1457.1 | 2550.5 | 5033.1 | 7151.9 | 5344.1 | 3227.2 | 2145.2 | 1594.7 | 1504.3 |
| 87.5° | 279.0 | 297.8 | 427.9 | 837.0 | 1491.1 | 2009.5 | 1647.5 | 1115.9 | 659.8 | 424.1 | 390.2 |
| 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)