

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: P317122

Luminaire Tested: **GAN-SA8B-740-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46817 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

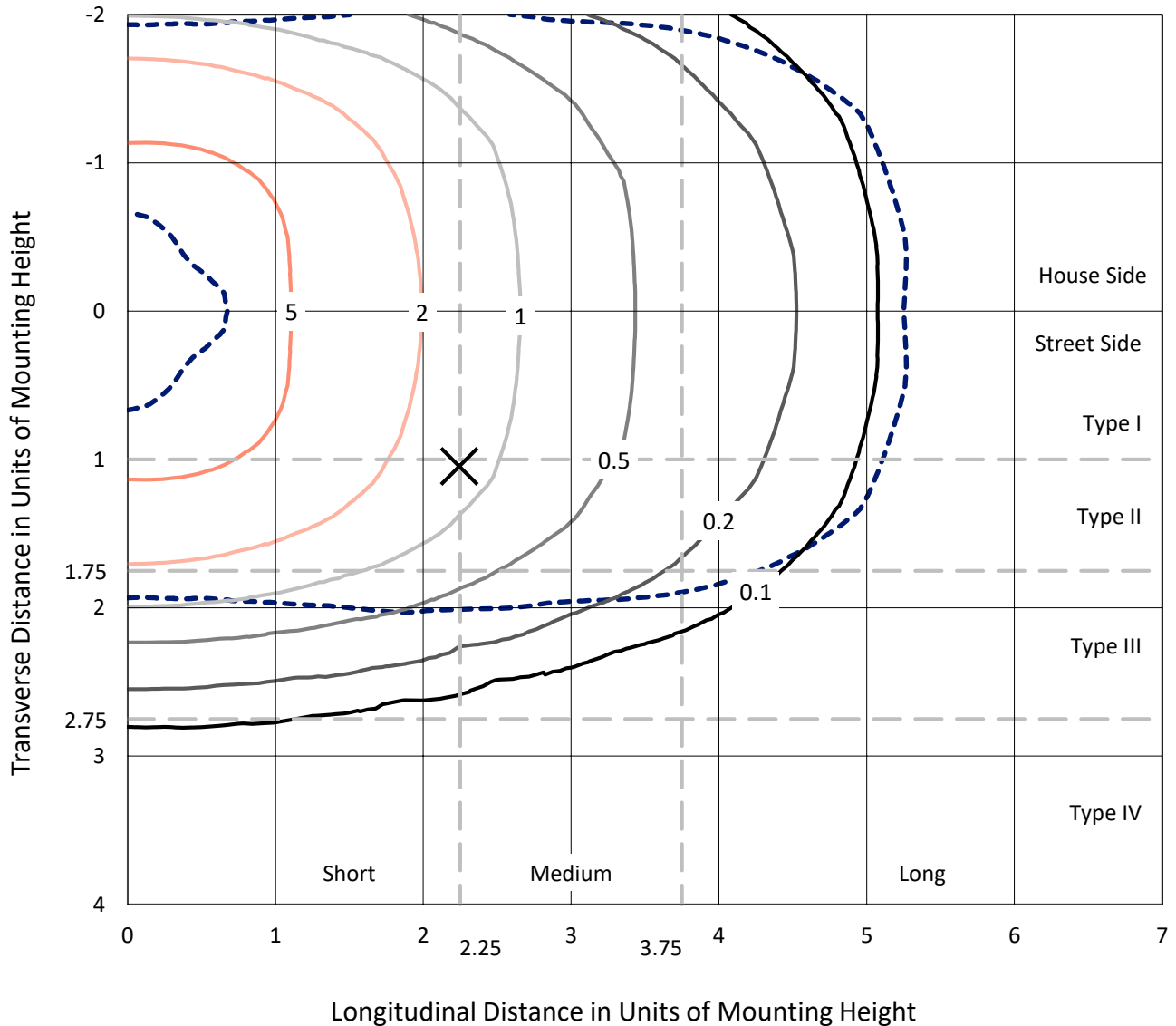
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

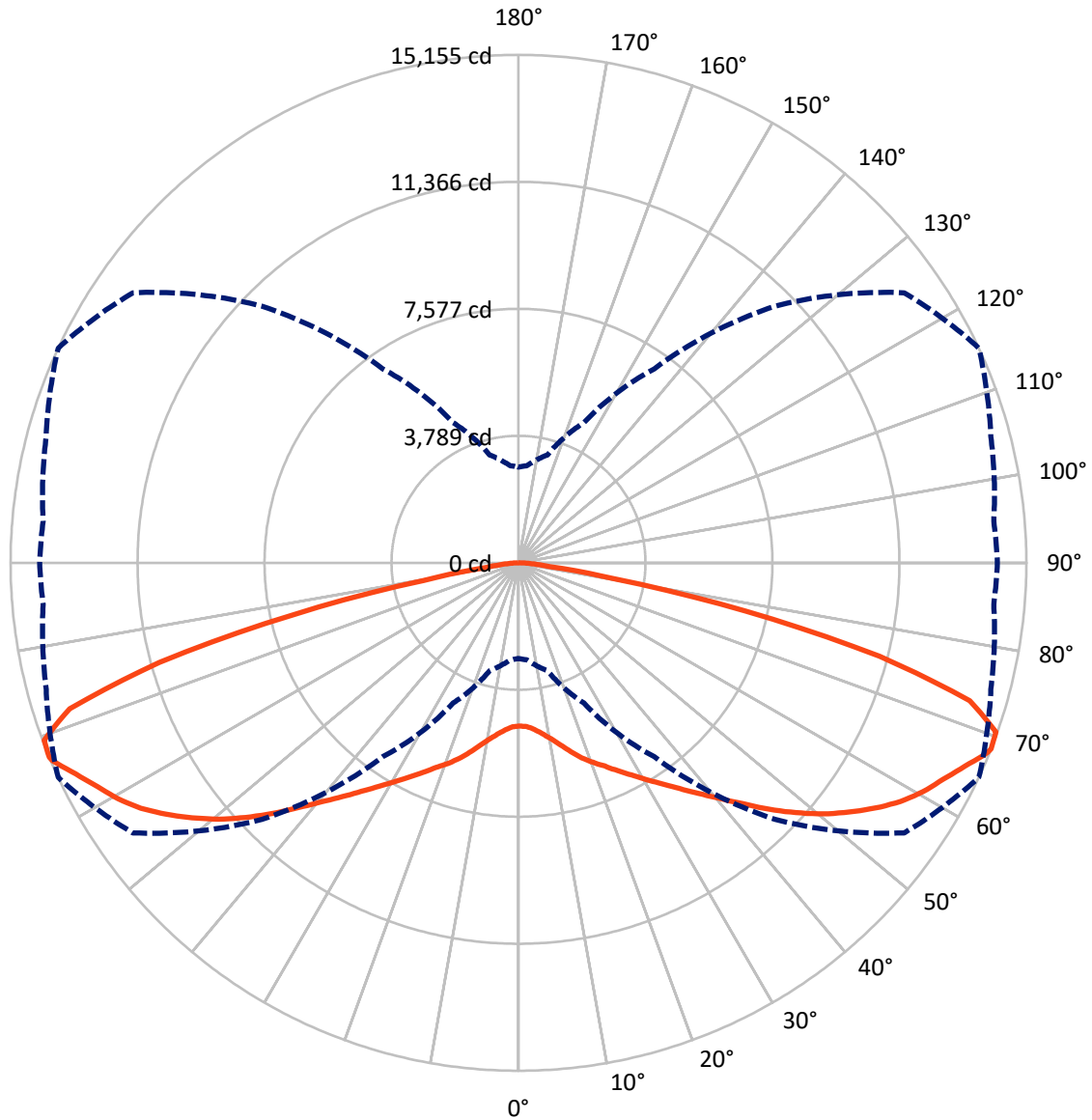
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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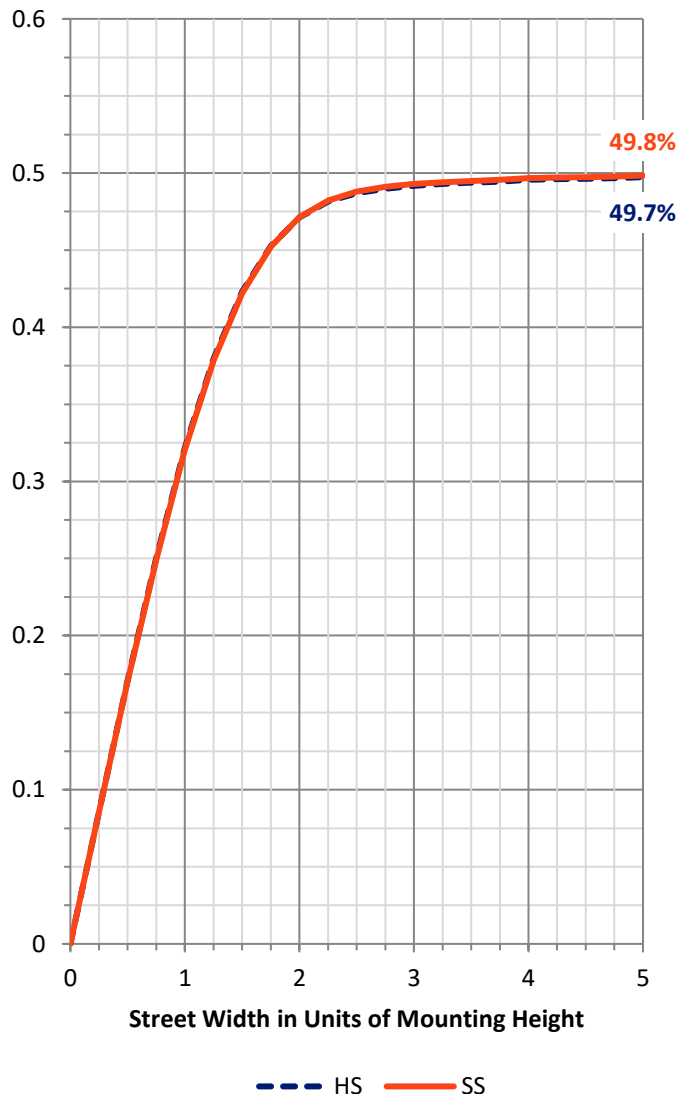
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23408.5 | 0.0 | 23408.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23408.5 | 0.0 | 23408.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 46817.0 | 0.0 | 46817.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 476.6 | 1.0 |
| 10°-20° | 1595.8 | 3.4 |
| 20°-30° | 3111.5 | 6.6 |
| 30°-40° | 5227.1 | 11.2 |
| 40°-50° | 8236.0 | 17.6 |
| 50°-60° | 11014.3 | 23.5 |
| 60°-70° | 10707.3 | 22.9 |
| 70°-80° | 5853.1 | 12.5 |
| 80°-90° | 595.3 | 1.3 |
| 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° | 46817.0 | 100.0 |
| 0°-180° | 46817.0 | 100.0 |

Coefficient of Utilization

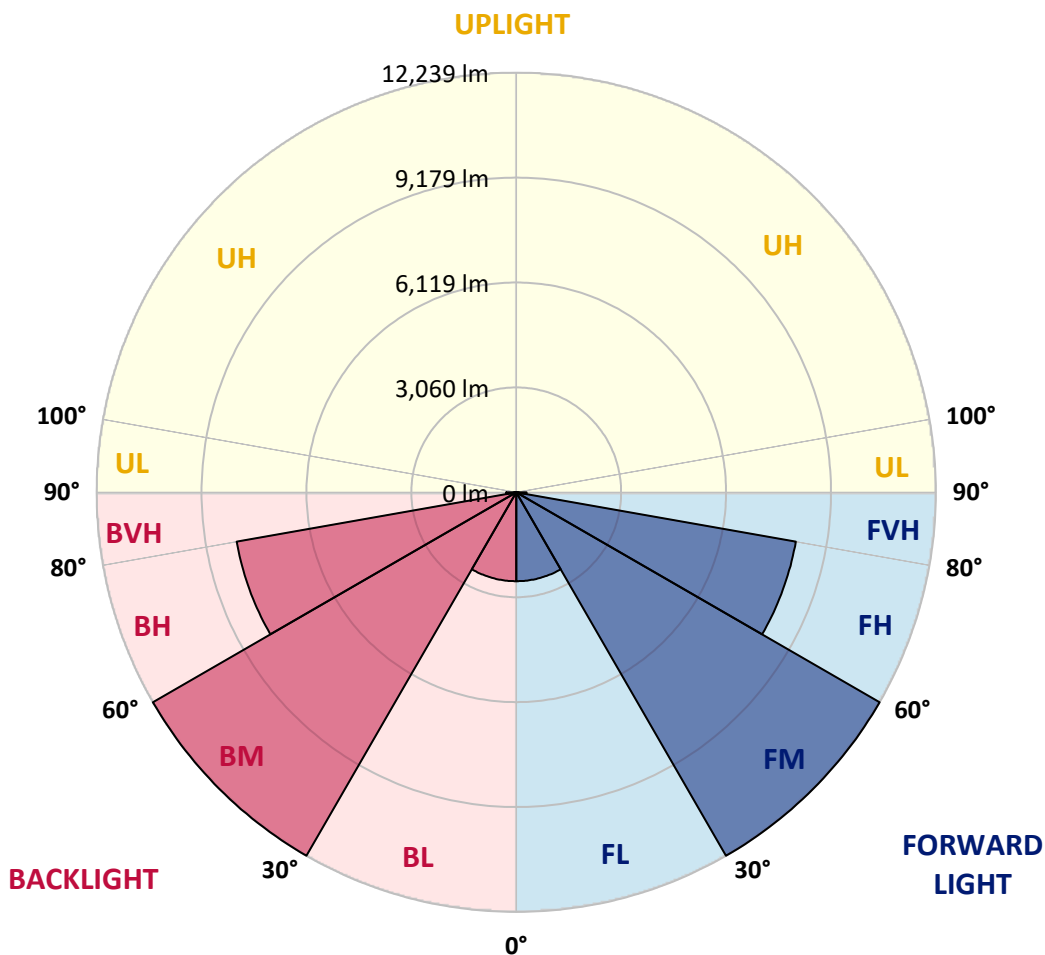


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2592.0 | 5.5 | | | |
| FM (30°-60°) | 12238.7 | 26.1 | | | |
| FH (60°-80°) | 8280.2 | 17.7 | | | G4/12000 |
| FVH (80°-90°) | 297.6 | 0.6 | | | G3/500 |
| BL (0°-30°) | 2592.0 | 5.5 | B4/5000 | | |
| BM (30°-60°) | 12238.7 | 26.1 | B5 | | |
| BH (60°-80°) | 8280.2 | 17.7 | B5 | | G5 |
| BVH (80°-90°) | 297.6 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4867.9 | 4867.9 | 4867.9 | 4867.9 | 4867.9 | 4867.9 | 4867.9 | 4867.9 | 4867.9 | 4867.9 | 4867.9 |
| 2.5° | 4833.3 | 4834.9 | 4842.8 | 4852.2 | 4860.0 | 4880.4 | 4885.1 | 4893.0 | 4896.1 | 4904.0 | 4904.0 |
| 5° | 4790.9 | 4794.1 | 4812.9 | 4838.0 | 4866.3 | 4916.5 | 4952.6 | 4993.4 | 5013.9 | 5035.8 | 5034.3 |
| 7.5° | 4786.2 | 4794.1 | 4820.8 | 4861.6 | 4908.7 | 4991.9 | 5067.2 | 5148.9 | 5203.8 | 5254.0 | 5250.9 |
| 10° | 4834.9 | 4847.5 | 4885.1 | 4946.4 | 5017.0 | 5120.6 | 5232.1 | 5341.9 | 5437.7 | 5514.6 | 5517.8 |
| 12.5° | 4908.7 | 4924.4 | 4984.0 | 5076.6 | 5183.4 | 5316.8 | 5448.7 | 5572.7 | 5704.6 | 5819.1 | 5828.6 |
| 15° | 5006.0 | 5026.4 | 5115.9 | 5254.0 | 5417.3 | 5575.8 | 5717.1 | 5844.3 | 5996.5 | 6155.1 | 6170.8 |
| 17.5° | 5150.4 | 5178.7 | 5296.4 | 5483.2 | 5698.3 | 5872.5 | 6020.1 | 6115.8 | 6243.0 | 6406.2 | 6436.1 |
| 20° | 5370.2 | 5406.3 | 5555.4 | 5778.3 | 6040.5 | 6222.6 | 6335.6 | 6356.0 | 6418.8 | 6564.8 | 6599.3 |
| 22.5° | 5655.9 | 5687.3 | 5853.7 | 6119.0 | 6412.5 | 6610.3 | 6670.0 | 6588.3 | 6582.1 | 6699.8 | 6732.8 |
| 25° | 5974.6 | 6002.8 | 6195.9 | 6494.2 | 6809.7 | 7027.9 | 7026.3 | 6867.8 | 6757.9 | 6848.9 | 6883.5 |
| 27.5° | 6332.5 | 6376.4 | 6561.7 | 6875.6 | 7213.1 | 7428.2 | 7415.6 | 7170.7 | 6961.9 | 6985.5 | 7015.3 |
| 30° | 6743.7 | 6792.4 | 6972.9 | 7291.6 | 7629.1 | 7839.4 | 7823.7 | 7500.4 | 7186.4 | 7123.6 | 7145.6 |
| 32.5° | 7253.9 | 7312.0 | 7483.1 | 7797.1 | 8095.3 | 8285.3 | 8239.7 | 7858.3 | 7456.4 | 7319.9 | 7340.3 |
| 35° | 7867.7 | 7902.2 | 8082.8 | 8392.0 | 8633.8 | 8764.0 | 8668.3 | 8272.7 | 7798.6 | 7633.8 | 7633.8 |
| 37.5° | 8489.3 | 8516.0 | 8718.5 | 9018.3 | 9252.2 | 9321.3 | 9134.5 | 8726.4 | 8246.0 | 8012.1 | 8016.8 |
| 40° | 9085.8 | 9158.1 | 9385.7 | 9693.3 | 9924.1 | 9942.9 | 9694.9 | 9244.4 | 8743.6 | 8501.9 | 8530.1 |
| 42.5° | 9709.0 | 9779.7 | 10051.3 | 10399.7 | 10603.8 | 10635.2 | 10344.8 | 9825.2 | 9305.6 | 9109.4 | 9140.8 |
| 45° | 10264.7 | 10321.3 | 10635.2 | 11040.2 | 11294.5 | 11376.1 | 11032.4 | 10490.8 | 9913.1 | 9721.6 | 9729.5 |
| 47.5° | 10652.5 | 10726.3 | 11071.6 | 11548.8 | 11919.3 | 12044.9 | 11707.4 | 11139.1 | 10511.2 | 10278.9 | 10299.3 |
| 50° | 11004.1 | 11043.4 | 11393.4 | 11914.6 | 12385.5 | 12644.5 | 12355.7 | 11779.6 | 11115.6 | 10869.1 | 10891.1 |
| 52.5° | 11200.3 | 11250.6 | 11589.6 | 12132.8 | 12690.0 | 13107.6 | 12931.8 | 12355.7 | 11699.5 | 11459.3 | 11486.0 |
| 55° | 11063.8 | 11101.4 | 11508.0 | 12181.4 | 12878.4 | 13393.3 | 13420.0 | 12919.2 | 12272.5 | 12062.1 | 12137.5 |
| 57.5° | 10442.1 | 10489.2 | 10985.3 | 11867.5 | 12902.0 | 13586.4 | 13787.3 | 13442.0 | 12807.8 | 12636.7 | 12680.6 |
| 60° | 9470.4 | 9500.3 | 10029.3 | 11021.4 | 12443.6 | 13666.4 | 14021.2 | 13868.9 | 13332.1 | 13161.0 | 13220.6 |
| 62.5° | 7739.0 | 7782.9 | 8415.6 | 9745.2 | 11475.0 | 13429.4 | 14247.3 | 14222.1 | 13820.3 | 13663.3 | 13716.7 |
| 65° | 5290.1 | 5367.1 | 6067.2 | 7748.4 | 9982.2 | 12704.2 | 14452.9 | 14633.4 | 14252.0 | 14054.2 | 14124.8 |
| 67.5° | 3194.5 | 3251.0 | 3758.0 | 5115.9 | 7638.5 | 11241.1 | 14241.0 | 15101.2 | 14556.5 | 14237.8 | 14295.9 |
| 68° | 2855.4 | 2907.2 | 3331.1 | 4616.7 | 7065.5 | 10828.3 | 14047.9 | 15154.6 | 14589.5 | 14234.7 | 14286.5 |
| 70° | 1725.2 | 1759.7 | 2043.8 | 2853.8 | 4710.9 | 8589.8 | 12730.9 | 15110.6 | 14799.8 | 14278.7 | 14308.5 |
| 72.5° | 1124.0 | 1134.9 | 1182.0 | 1464.6 | 2406.5 | 4803.5 | 9555.2 | 14080.9 | 15115.3 | 14534.5 | 14529.8 |
| 75° | 934.0 | 927.7 | 932.4 | 965.4 | 1186.7 | 2106.6 | 5583.7 | 11123.4 | 14408.9 | 14131.1 | 14032.2 |
| 77.5° | 789.6 | 784.9 | 783.3 | 784.9 | 794.3 | 1017.2 | 2423.7 | 6929.0 | 11026.1 | 12500.1 | 12588.0 |
| 80° | 638.9 | 632.6 | 653.0 | 643.6 | 615.4 | 632.6 | 1015.6 | 2882.1 | 5197.5 | 5591.5 | 5239.9 |
| 82.5° | 464.7 | 441.1 | 529.0 | 503.9 | 480.4 | 445.8 | 560.4 | 930.9 | 1240.1 | 850.8 | 598.1 |
| 85° | 357.9 | 332.8 | 401.9 | 386.2 | 329.7 | 227.6 | 332.8 | 455.2 | 502.3 | 287.3 | 226.0 |
| 87.5° | 146.0 | 153.8 | 290.4 | 229.2 | 193.1 | 109.9 | 136.6 | 182.1 | 244.9 | 122.4 | 94.2 |
| 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)