

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: McGRAW-EDISON

Report Number: P458083

Luminaire Tested: **GALN-SA9C-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54994 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

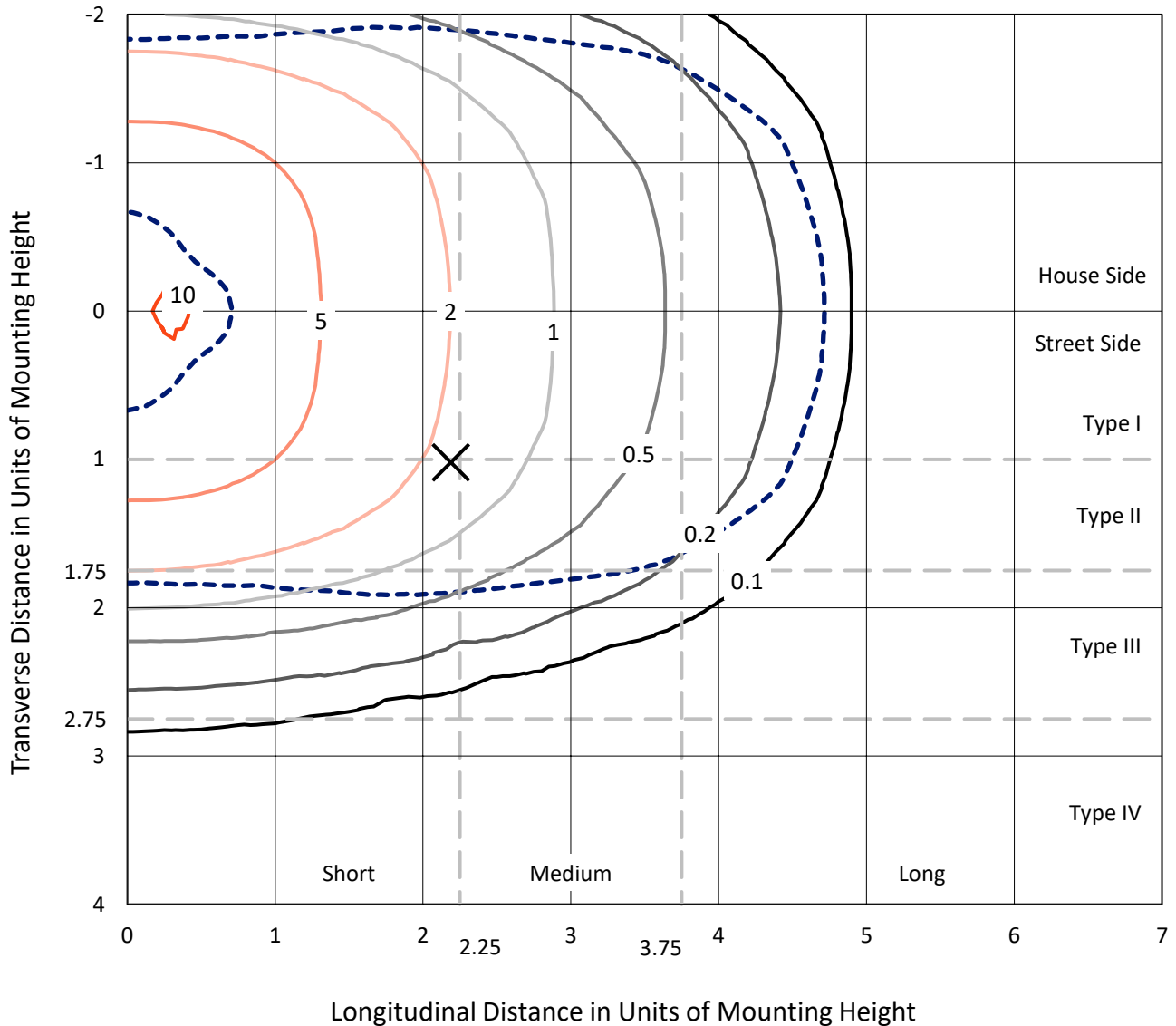
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

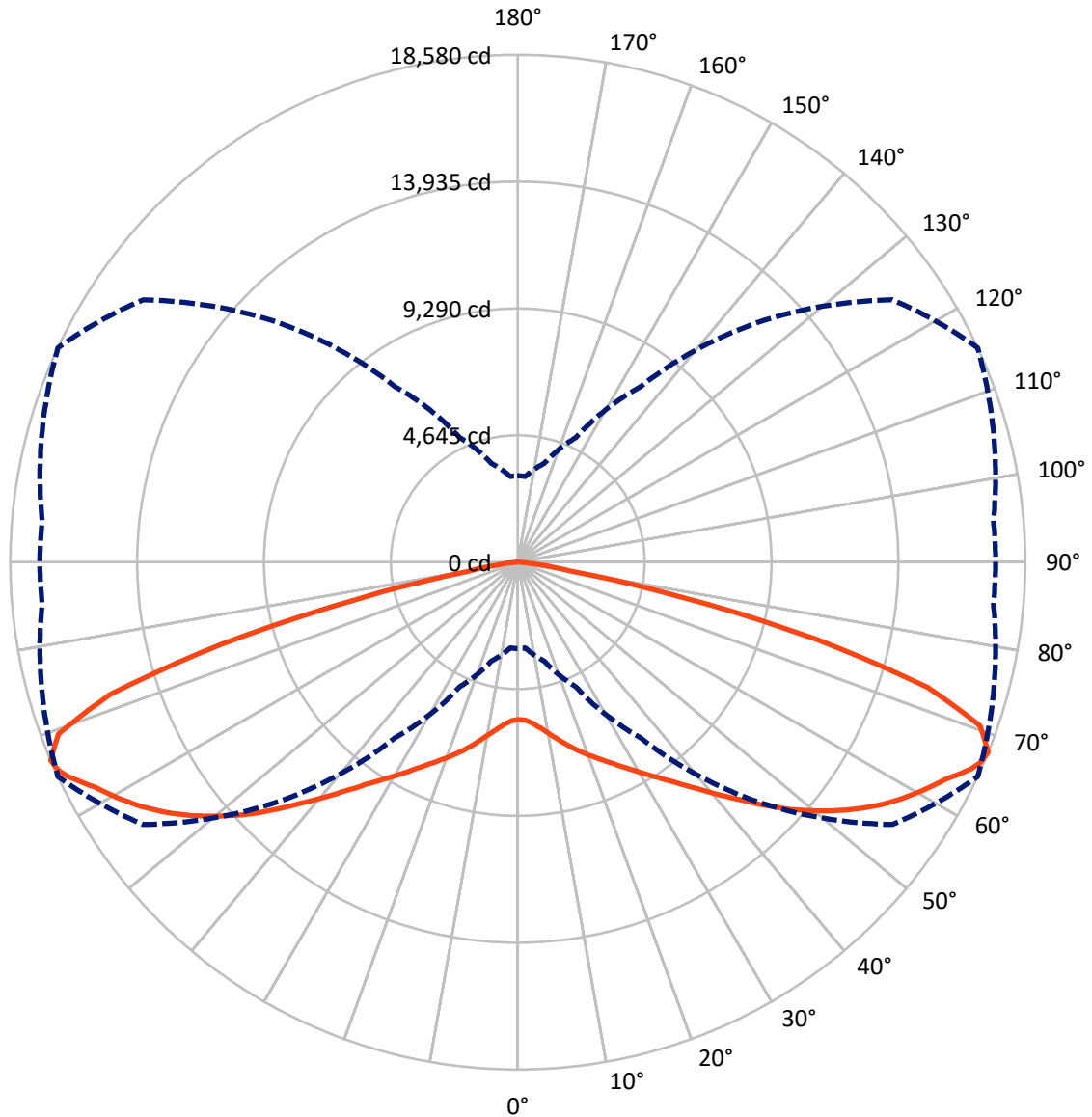
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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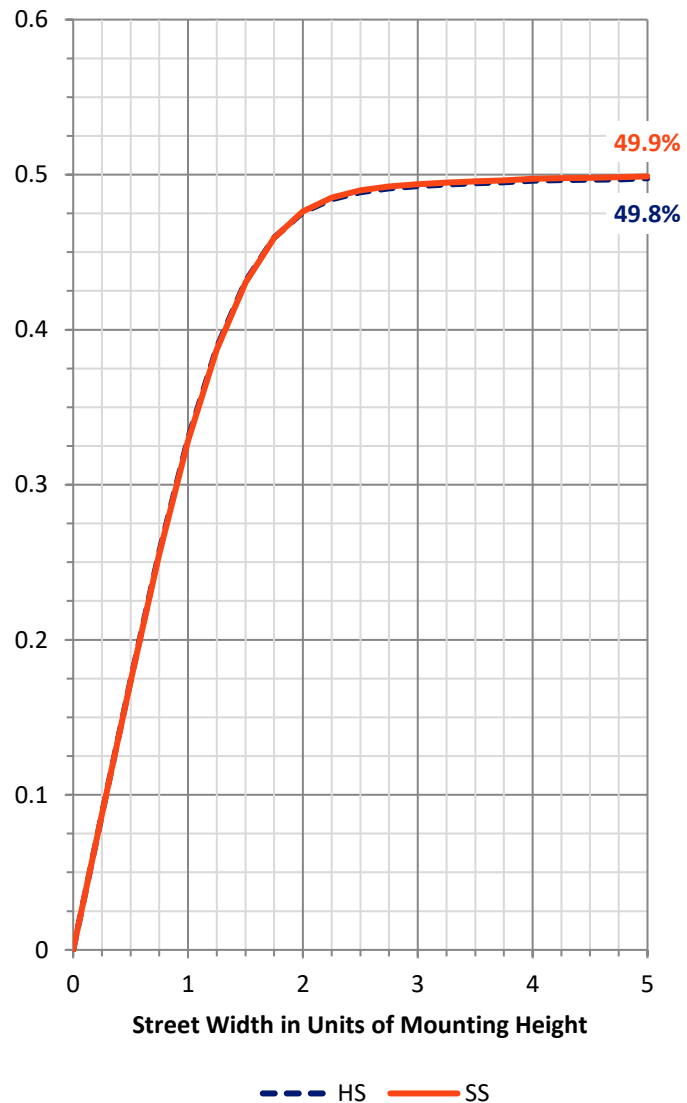
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 27497.0 | 0.0 | 27497.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27497.0 | 0.0 | 27497.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 54994.0 | 0.0 | 54994.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 568.1 | 1.0 |
| 10°-20° | 1901.4 | 3.5 |
| 20°-30° | 3719.3 | 6.8 |
| 30°-40° | 6326.0 | 11.5 |
| 40°-50° | 10012.1 | 18.2 |
| 50°-60° | 13275.9 | 24.1 |
| 60°-70° | 12523.3 | 22.8 |
| 70°-80° | 6190.9 | 11.3 |
| 80°-90° | 477.1 | 0.9 |
| 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° | 54994.0 | 100.0 |
| 0°-180° | 54994.0 | 100.0 |



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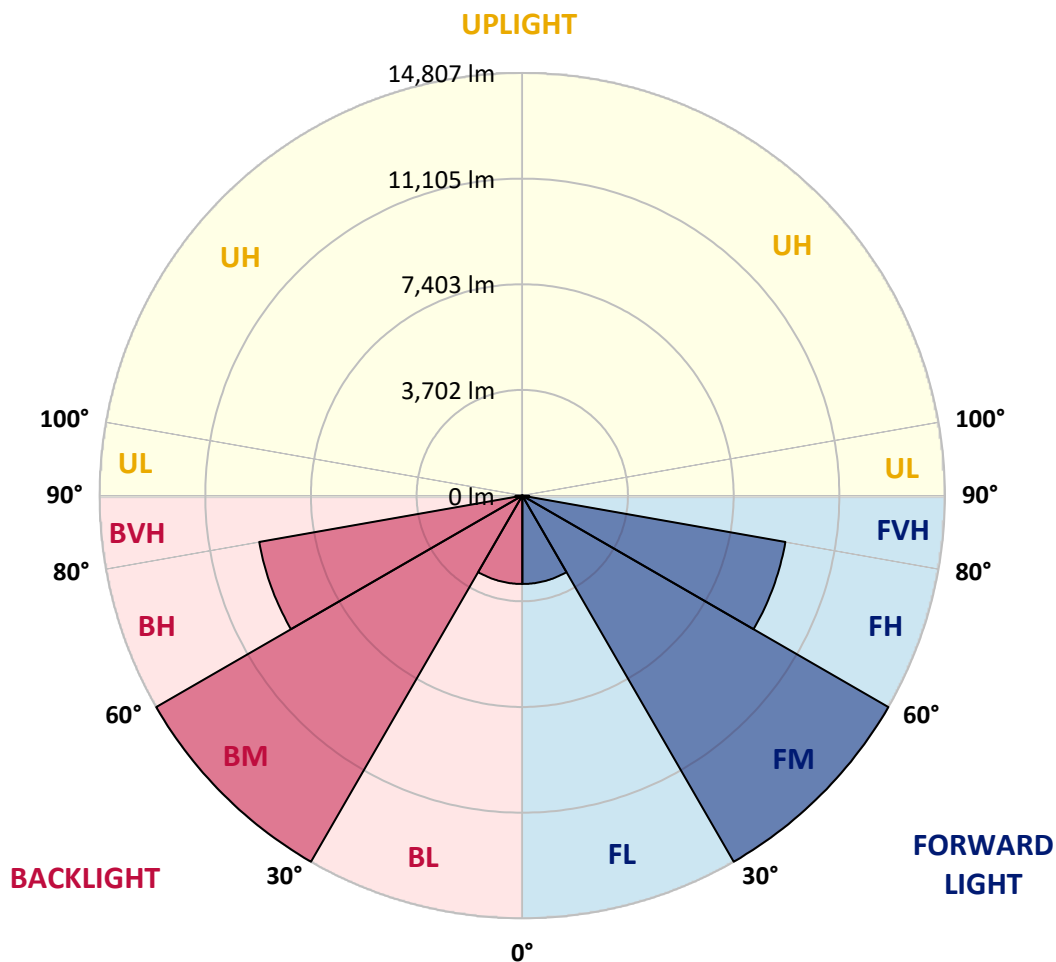
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3094.4 | 5.6 | | | |
| FM | (30°-60°) | 14807.0 | 26.9 | | | |
| FH | (60°-80°) | 9357.1 | 17.0 | | | G4/12000 |
| FVH | (80°-90°) | 238.6 | 0.4 | | | G3/500 |
| BL | (0°-30°) | 3094.4 | 5.6 | B4/5000 | | |
| BM | (30°-60°) | 14807.0 | 26.9 | B5 | | |
| BH | (60°-80°) | 9357.1 | 17.0 | B5 | | G5 |
| BVH | (80°-90°) | 238.6 | 0.4 | | | 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° | 5760.1 | 5760.1 | 5760.1 | 5760.1 | 5760.1 | 5760.1 | 5760.1 | 5760.1 | 5760.1 | 5760.1 | 5760.1 |
| 2.5° | 5730.7 | 5736.6 | 5742.5 | 5751.3 | 5763.1 | 5780.8 | 5792.5 | 5801.4 | 5825.0 | 5827.9 | 5825.0 |
| 5° | 5710.0 | 5715.9 | 5730.7 | 5757.2 | 5795.5 | 5848.5 | 5889.8 | 5939.9 | 5978.2 | 6004.7 | 5998.8 |
| 7.5° | 5707.1 | 5718.9 | 5742.5 | 5798.4 | 5872.1 | 5963.4 | 6057.7 | 6143.2 | 6216.8 | 6275.7 | 6266.9 |
| 10° | 5754.2 | 5769.0 | 5807.3 | 5889.8 | 6004.7 | 6137.3 | 6269.9 | 6396.6 | 6502.6 | 6579.2 | 6605.7 |
| 12.5° | 5833.8 | 5845.6 | 5916.3 | 6040.0 | 6205.0 | 6370.0 | 6520.3 | 6676.5 | 6823.8 | 6953.4 | 6953.4 |
| 15° | 5972.3 | 5992.9 | 6081.3 | 6261.0 | 6464.3 | 6655.8 | 6809.0 | 6974.0 | 7133.1 | 7280.5 | 7324.7 |
| 17.5° | 6163.8 | 6193.3 | 6325.8 | 6555.7 | 6814.9 | 6991.7 | 7136.1 | 7271.6 | 7410.1 | 7551.5 | 7572.1 |
| 20° | 6426.0 | 6455.5 | 6632.3 | 6909.2 | 7215.6 | 7427.8 | 7525.0 | 7557.4 | 7625.2 | 7760.7 | 7778.4 |
| 22.5° | 6782.5 | 6812.0 | 7009.4 | 7321.7 | 7663.5 | 7893.3 | 7934.6 | 7857.9 | 7840.3 | 7946.3 | 7958.1 |
| 25° | 7186.2 | 7212.7 | 7439.6 | 7775.4 | 8129.0 | 8379.5 | 8367.7 | 8179.1 | 8073.0 | 8137.8 | 8155.5 |
| 27.5° | 7639.9 | 7678.2 | 7908.0 | 8255.7 | 8638.7 | 8859.7 | 8824.4 | 8550.3 | 8323.5 | 8311.7 | 8317.6 |
| 30° | 8220.3 | 8261.6 | 8479.6 | 8812.6 | 9189.7 | 9393.0 | 9319.3 | 8951.0 | 8600.4 | 8482.6 | 8482.6 |
| 32.5° | 8833.2 | 8936.3 | 9157.3 | 9505.0 | 9799.6 | 9946.9 | 9835.0 | 9393.0 | 8927.5 | 8762.5 | 8753.6 |
| 35° | 9631.7 | 9687.6 | 9905.7 | 10244.5 | 10465.5 | 10580.4 | 10365.3 | 9890.9 | 9354.7 | 9160.2 | 9133.7 |
| 37.5° | 10412.4 | 10459.6 | 10713.0 | 11037.1 | 11305.2 | 11299.3 | 11007.6 | 10483.2 | 9885.0 | 9667.0 | 9649.3 |
| 40° | 11210.9 | 11261.0 | 11549.7 | 11847.3 | 12115.4 | 12091.9 | 11738.3 | 11152.0 | 10515.6 | 10271.0 | 10318.2 |
| 42.5° | 11903.3 | 11959.3 | 12286.3 | 12710.6 | 12952.2 | 12946.3 | 12536.8 | 11876.8 | 11213.9 | 10995.8 | 11037.1 |
| 45° | 12533.8 | 12583.9 | 12964.0 | 13450.1 | 13803.7 | 13847.9 | 13400.1 | 12701.8 | 12021.2 | 11741.2 | 11753.0 |
| 47.5° | 12978.7 | 13073.0 | 13470.8 | 14027.6 | 14507.9 | 14664.0 | 14225.0 | 13541.5 | 12757.7 | 12466.1 | 12483.7 |
| 50° | 13317.6 | 13376.5 | 13809.6 | 14443.1 | 15050.0 | 15374.1 | 15020.5 | 14319.3 | 13494.3 | 13185.0 | 13226.2 |
| 52.5° | 13358.8 | 13429.5 | 13900.9 | 14631.6 | 15409.5 | 15901.5 | 15727.7 | 15079.5 | 14245.7 | 13927.4 | 14015.8 |
| 55° | 13022.9 | 13064.2 | 13626.9 | 14513.8 | 15550.9 | 16293.4 | 16337.6 | 15786.6 | 14961.6 | 14720.0 | 14778.9 |
| 57.5° | 12065.3 | 12171.4 | 12884.4 | 13962.8 | 15356.4 | 16502.6 | 16794.3 | 16428.9 | 15686.4 | 15447.8 | 15542.1 |
| 60° | 10494.9 | 10601.0 | 11317.0 | 12684.1 | 14622.8 | 16405.3 | 17171.4 | 16997.6 | 16343.5 | 16152.0 | 16202.0 |
| 62.5° | 8223.3 | 8214.5 | 9101.3 | 10777.8 | 13164.3 | 15928.0 | 17451.3 | 17545.6 | 16991.7 | 16750.1 | 16826.7 |
| 65° | 5330.0 | 5356.5 | 6213.9 | 8020.0 | 10963.4 | 14714.1 | 17513.2 | 18243.9 | 17628.1 | 17262.7 | 17318.7 |
| 66° | 4287.0 | 4366.5 | 5094.3 | 6759.0 | 9840.8 | 13918.6 | 17327.6 | 18450.1 | 17822.5 | 17380.6 | 17407.1 |
| 67.5° | 3164.4 | 3149.7 | 3747.8 | 5032.4 | 7857.9 | 12407.1 | 16747.1 | 18579.8 | 18043.5 | 17486.7 | 17498.4 |
| 70° | 1806.1 | 1803.2 | 2015.3 | 2763.7 | 4619.9 | 8736.0 | 14116.0 | 17958.1 | 18491.4 | 17869.7 | 17837.3 |
| 72.5° | 1320.0 | 1311.1 | 1340.6 | 1526.2 | 2254.0 | 4410.7 | 9737.7 | 15695.3 | 18261.5 | 17807.8 | 17716.5 |
| 75° | 1107.8 | 1101.9 | 1096.0 | 1119.6 | 1264.0 | 1997.6 | 5167.9 | 11290.5 | 15845.5 | 16714.7 | 16620.4 |
| 77.5° | 904.5 | 904.5 | 907.5 | 901.6 | 907.5 | 1051.9 | 2142.0 | 6051.8 | 9649.3 | 10771.9 | 11034.1 |
| 80° | 707.1 | 704.2 | 754.3 | 733.6 | 686.5 | 674.7 | 948.7 | 1947.5 | 3202.7 | 3185.0 | 2628.2 |
| 82.5° | 521.5 | 486.1 | 574.5 | 559.8 | 506.8 | 430.2 | 553.9 | 830.9 | 1069.5 | 695.3 | 515.6 |
| 85° | 330.0 | 327.0 | 406.6 | 371.2 | 309.4 | 203.3 | 265.2 | 356.5 | 442.0 | 268.1 | 218.0 |
| 87.5° | 58.9 | 56.0 | 129.6 | 94.3 | 94.3 | 58.9 | 73.7 | 97.2 | 144.4 | 100.2 | 73.7 |
| 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)