

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: P456325

Luminaire Tested: **GLAN-SA7C-750-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-750-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48882 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

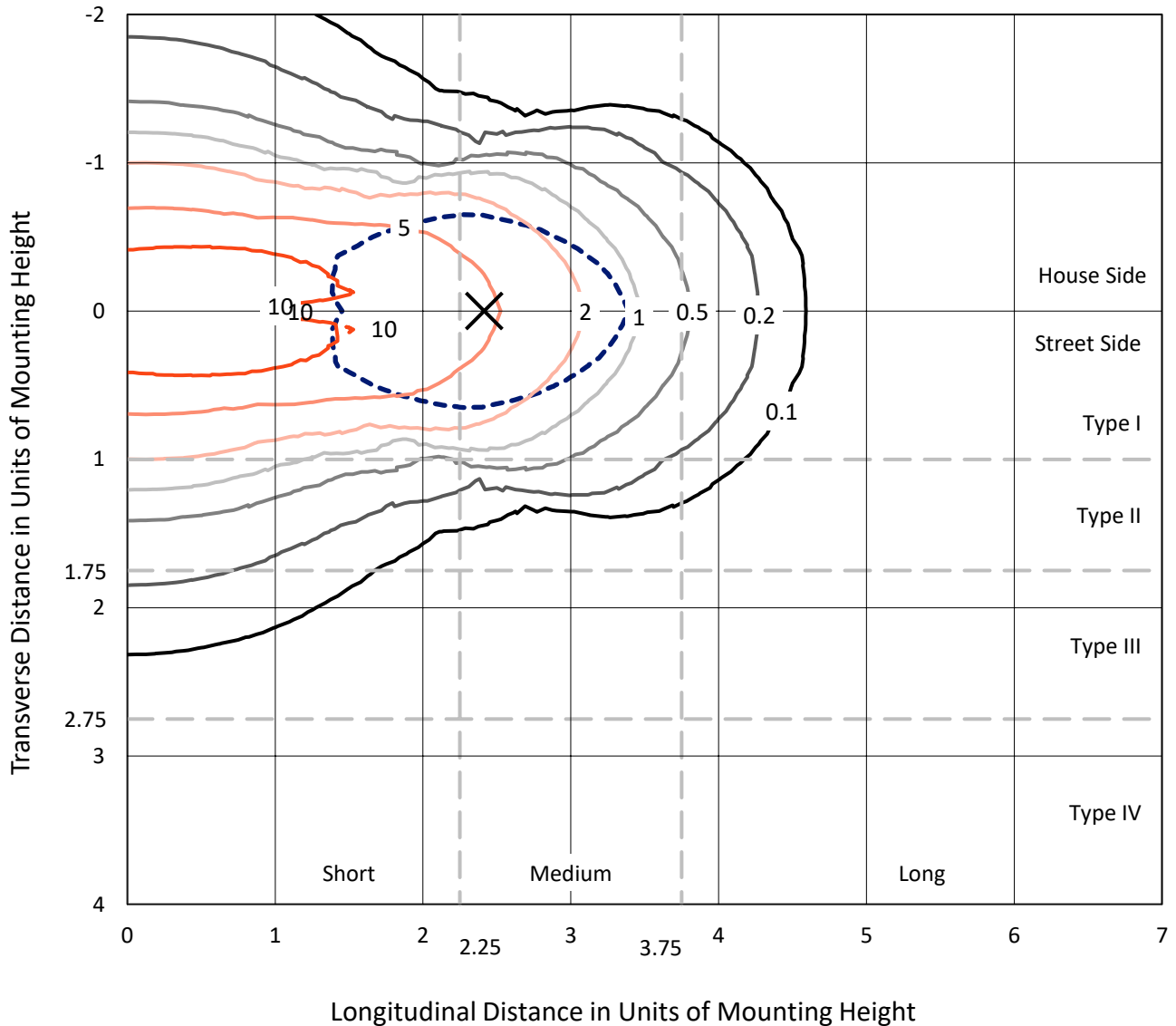
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

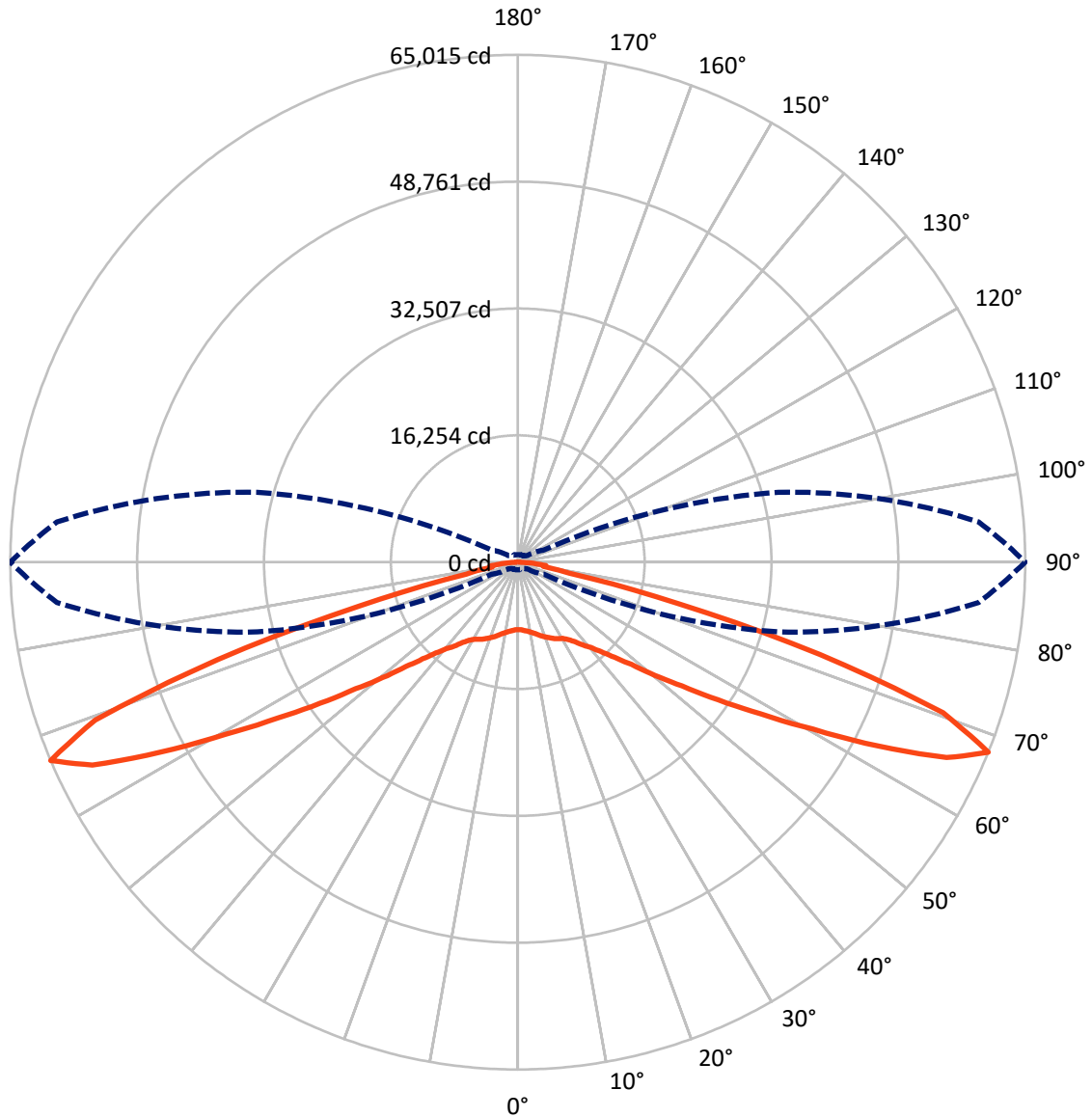
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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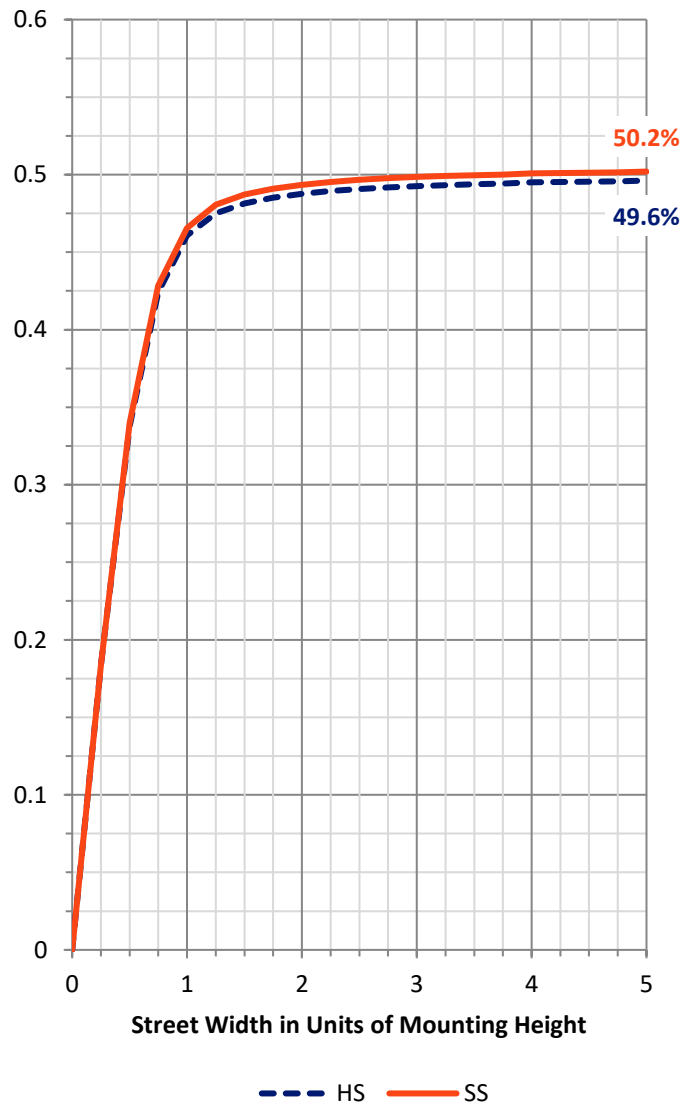
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 24441.0 | 0.0 | 24441.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 24441.0 | 0.0 | 24441.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 48882.0 | 0.0 | 48882.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 862.8 | 1.8 |
| 10°-20° | 2760.4 | 5.6 |
| 20°-30° | 4620.2 | 9.5 |
| 30°-40° | 6259.1 | 12.8 |
| 40°-50° | 7928.2 | 16.2 |
| 50°-60° | 9904.3 | 20.3 |
| 60°-70° | 11642.1 | 23.8 |
| 70°-80° | 4453.6 | 9.1 |
| 80°-90° | 451.2 | 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° | 48882.0 | 100.0 |
| 0°-180° | 48882.0 | 100.0 |



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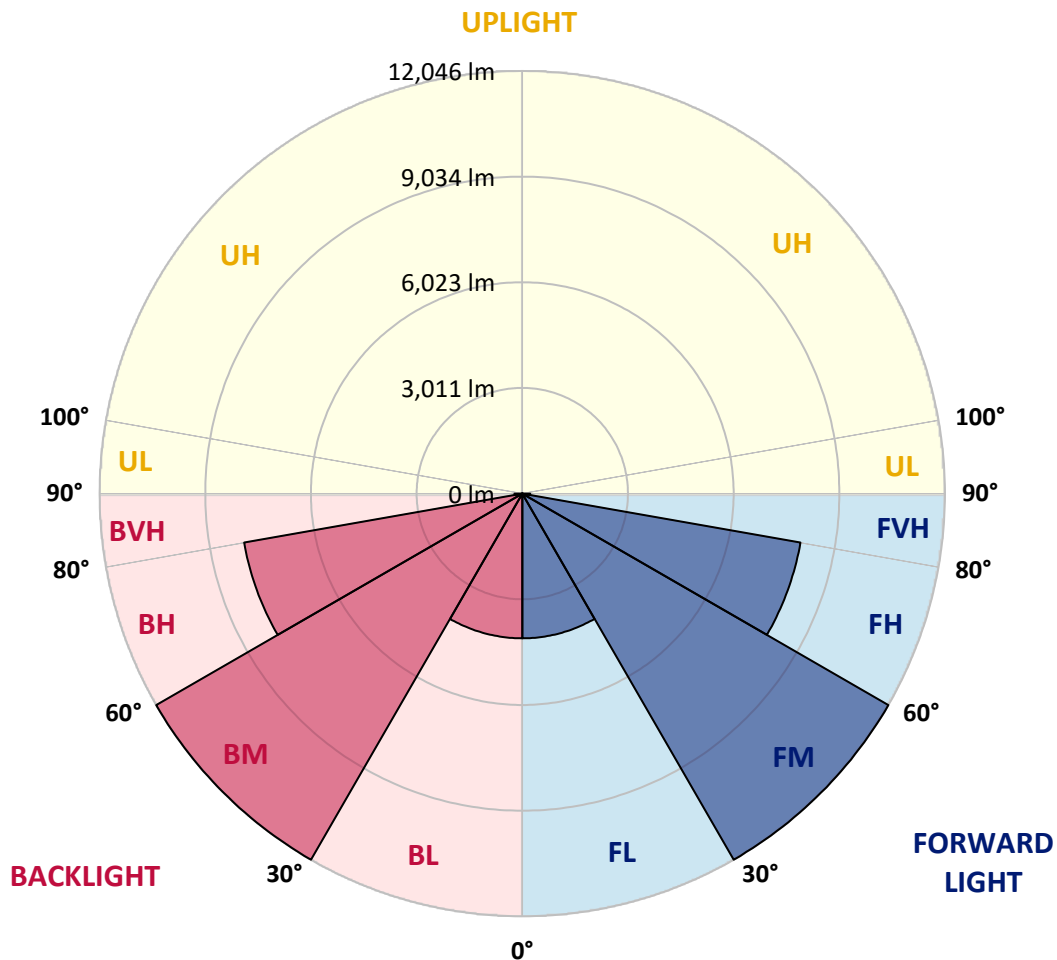
CATALOG NUMBER: GLAN-SA7C-750-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4121.7 | 8.4 | | | |
| FM | (30°-60°) | 12045.9 | 24.6 | | | |
| FH | (60°-80°) | 8047.9 | 16.5 | | | G4/12000 |
| FVH | (80°-90°) | 225.6 | 0.5 | | | G3/500 |
| BL | (0°-30°) | 4121.7 | 8.4 | B4/5000 | | |
| BM | (30°-60°) | 12045.9 | 24.6 | B5 | | |
| BH | (60°-80°) | 8047.9 | 16.5 | B5 | | G5 |
| BVH | (80°-90°) | 225.6 | 0.5 | | | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 8653.6 | 8653.6 | 8653.6 | 8653.6 | 8653.6 | 8653.6 | 8653.6 | 8653.6 | 8653.6 | 8653.6 | 8653.6 |
| 2.5° | 8764.6 | 8759.2 | 8761.9 | 8759.2 | 8767.3 | 8761.9 | 8729.4 | 8702.4 | 8680.7 | 8683.4 | 8675.3 |
| 5° | 8951.4 | 8954.1 | 8956.8 | 8943.3 | 8962.2 | 8951.4 | 8900.0 | 8856.6 | 8813.3 | 8797.1 | 8791.7 |
| 7.5° | 9105.7 | 9119.2 | 9127.3 | 9140.9 | 9173.3 | 9173.3 | 9146.3 | 9084.0 | 8989.3 | 8935.1 | 8932.4 |
| 10° | 9260.0 | 9270.8 | 9295.1 | 9338.5 | 9392.6 | 9444.0 | 9433.2 | 9349.3 | 9227.5 | 9135.4 | 9113.8 |
| 12.5° | 9314.1 | 9327.6 | 9408.8 | 9533.3 | 9655.2 | 9755.3 | 9755.3 | 9687.6 | 9530.6 | 9389.9 | 9349.3 |
| 15° | 9124.6 | 9149.0 | 9295.1 | 9560.4 | 9879.8 | 10099.1 | 10147.8 | 10053.1 | 9885.2 | 9668.7 | 9620.0 |
| 17.5° | 8748.4 | 8807.9 | 9021.8 | 9414.2 | 9944.8 | 10399.5 | 10540.3 | 10494.3 | 10277.7 | 10001.6 | 9944.8 |
| 20° | 8345.1 | 8410.0 | 8637.4 | 9157.1 | 9890.6 | 10575.5 | 10984.2 | 10995.0 | 10727.0 | 10326.4 | 10242.5 |
| 22.5° | 7901.1 | 7949.9 | 8242.2 | 8851.2 | 9728.2 | 10616.1 | 11365.8 | 11552.6 | 11189.9 | 10651.3 | 10532.2 |
| 25° | 7403.1 | 7457.2 | 7763.1 | 8420.9 | 9422.4 | 10570.0 | 11715.0 | 12126.5 | 11674.4 | 10997.7 | 10846.1 |
| 27.5° | 6926.7 | 6948.4 | 7275.9 | 7944.5 | 9019.1 | 10451.0 | 11972.2 | 12654.3 | 12210.4 | 11284.6 | 11092.5 |
| 30° | 6469.2 | 6520.7 | 6810.3 | 7470.8 | 8556.2 | 10218.2 | 12194.1 | 13255.2 | 12786.9 | 11585.1 | 11338.8 |
| 32.5° | 5984.7 | 6047.0 | 6361.0 | 7029.6 | 8093.3 | 9869.0 | 12329.5 | 13912.9 | 13590.8 | 12072.3 | 11809.8 |
| 35° | 5519.2 | 5559.8 | 5876.5 | 6526.1 | 7641.3 | 9463.0 | 12353.8 | 14654.6 | 14627.5 | 12811.3 | 12462.1 |
| 37.5° | 5042.8 | 5102.3 | 5421.7 | 6044.3 | 7162.2 | 9032.6 | 12232.0 | 15442.3 | 15878.1 | 13837.2 | 13460.9 |
| 40° | 4585.3 | 4636.7 | 4950.7 | 5578.7 | 6618.1 | 8507.5 | 11942.4 | 16162.3 | 17337.0 | 14892.8 | 14359.6 |
| 42.5° | 4087.3 | 4100.8 | 4444.6 | 5083.4 | 6084.9 | 7898.4 | 11525.5 | 16803.8 | 18963.8 | 16308.5 | 15645.3 |
| 45° | 3521.5 | 3556.7 | 3876.1 | 4504.1 | 5473.1 | 7216.3 | 10959.8 | 17334.3 | 21026.4 | 18270.9 | 17366.8 |
| 47.5° | 2955.8 | 2985.6 | 3277.9 | 3897.8 | 4804.6 | 6434.1 | 10088.2 | 17799.9 | 23143.1 | 20763.9 | 19578.3 |
| 50° | 2403.6 | 2419.9 | 2658.1 | 3207.6 | 4052.1 | 5611.2 | 9008.2 | 17948.8 | 25535.9 | 24293.5 | 22780.4 |
| 52.5° | 1900.2 | 1924.5 | 2105.9 | 2536.3 | 3248.2 | 4639.5 | 7841.6 | 17580.7 | 28329.4 | 28478.2 | 26345.3 |
| 55° | 1540.2 | 1548.3 | 1683.6 | 2000.3 | 2539.0 | 3621.7 | 6434.1 | 16554.8 | 31333.9 | 33840.4 | 31120.1 |
| 57.5° | 1326.3 | 1331.7 | 1407.5 | 1583.5 | 1954.3 | 2731.2 | 4991.3 | 14614.0 | 34032.6 | 40122.9 | 36625.7 |
| 60° | 1204.5 | 1207.2 | 1250.5 | 1353.4 | 1548.3 | 2095.1 | 3575.7 | 11874.7 | 36696.1 | 47114.5 | 43468.5 |
| 62.5° | 1128.7 | 1128.7 | 1158.5 | 1215.4 | 1310.1 | 1607.8 | 2590.4 | 8567.0 | 38520.5 | 54209.1 | 51902.9 |
| 65° | 1055.7 | 1055.7 | 1077.3 | 1117.9 | 1169.3 | 1315.5 | 1913.7 | 5586.8 | 38474.4 | 59376.3 | 60386.0 |
| 67.5° | 971.7 | 971.7 | 988.0 | 1028.6 | 1058.4 | 1131.4 | 1477.9 | 3659.6 | 34560.4 | 59262.7 | 65014.6 |
| 70° | 871.6 | 871.6 | 893.2 | 928.4 | 952.8 | 998.8 | 1166.6 | 2503.8 | 25389.8 | 50600.9 | 57819.9 |
| 72.5° | 771.4 | 774.1 | 787.7 | 822.9 | 841.8 | 868.9 | 969.0 | 1754.0 | 15574.9 | 34454.8 | 40428.7 |
| 75° | 660.5 | 665.9 | 679.4 | 714.6 | 730.8 | 741.7 | 817.5 | 1250.5 | 7879.5 | 18576.8 | 21150.9 |
| 77.5° | 533.2 | 544.1 | 552.2 | 590.1 | 600.9 | 617.2 | 674.0 | 904.1 | 3459.3 | 6675.0 | 6734.5 |
| 80° | 389.8 | 403.3 | 427.7 | 462.9 | 471.0 | 481.8 | 514.3 | 641.5 | 1567.2 | 3047.9 | 3310.4 |
| 82.5° | 286.9 | 305.9 | 276.1 | 322.1 | 322.1 | 308.6 | 362.7 | 430.4 | 720.0 | 3018.1 | 3610.9 |
| 85° | 157.0 | 159.7 | 143.5 | 165.1 | 175.9 | 173.2 | 192.2 | 211.1 | 349.2 | 2013.9 | 2076.1 |
| 87.5° | 37.9 | 40.6 | 43.3 | 51.4 | 62.3 | 62.3 | 67.7 | 59.5 | 113.7 | 652.3 | 373.5 |
| 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)