

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: P458036

Luminaire Tested: **GLAN-SA9B-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458036
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-SA9B-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40919 lumens
Efficiency: N/A
Efficacy: 112.4 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

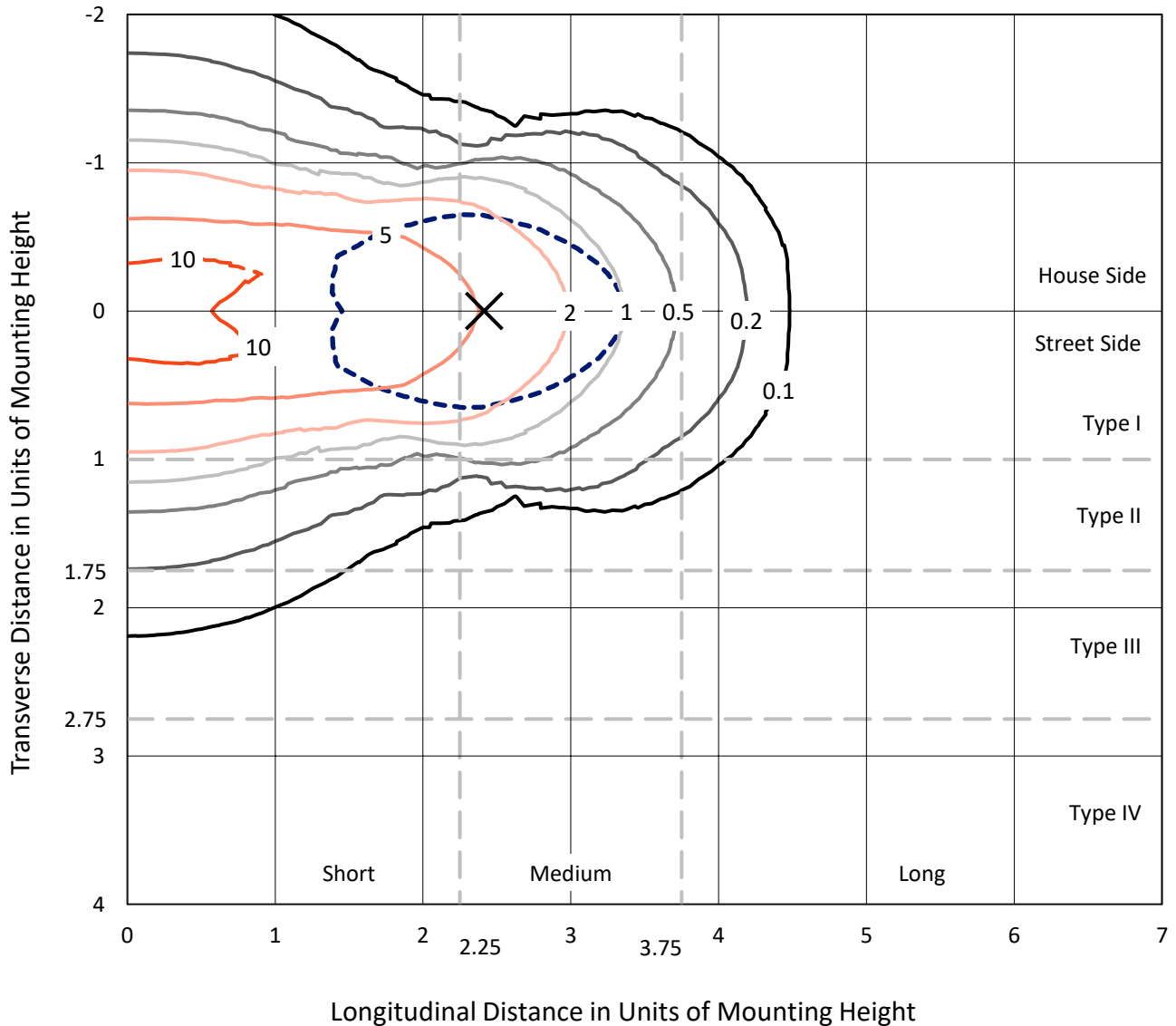
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

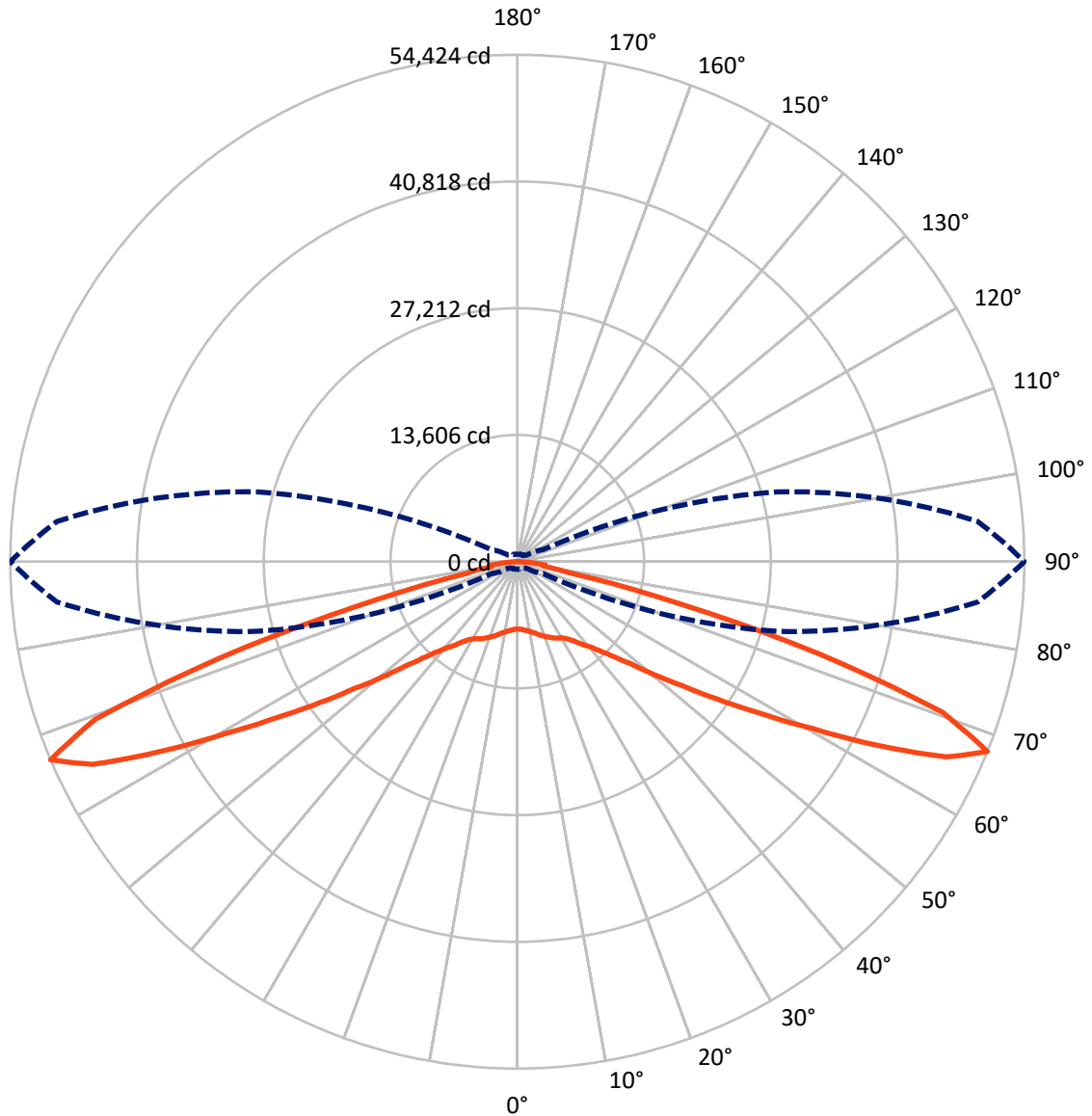
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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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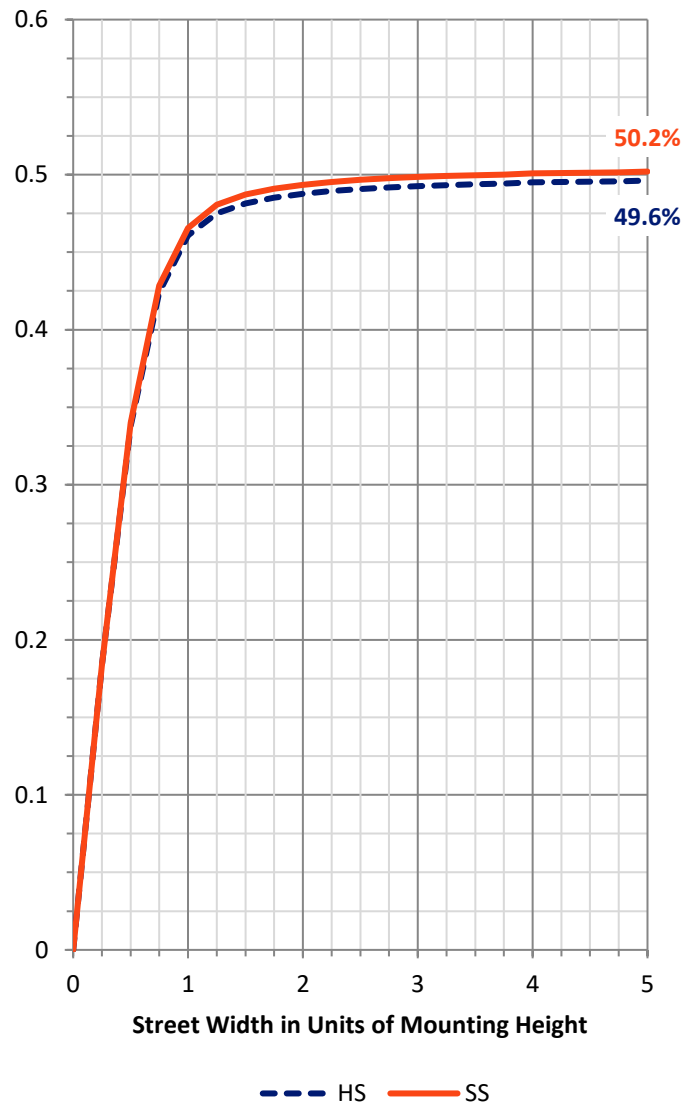
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20459.5 | 0.0 | 20459.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20459.5 | 0.0 | 20459.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 40919.0 | 0.0 | 40919.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 722.2 | 1.8 |
| 10°-20° | 2310.7 | 5.6 |
| 20°-30° | 3867.5 | 9.5 |
| 30°-40° | 5239.5 | 12.8 |
| 40°-50° | 6636.7 | 16.2 |
| 50°-60° | 8290.9 | 20.3 |
| 60°-70° | 9745.6 | 23.8 |
| 70°-80° | 3728.1 | 9.1 |
| 80°-90° | 377.7 | 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° | 40919.0 | 100.0 |
| 0°-180° | 40919.0 | 100.0 |



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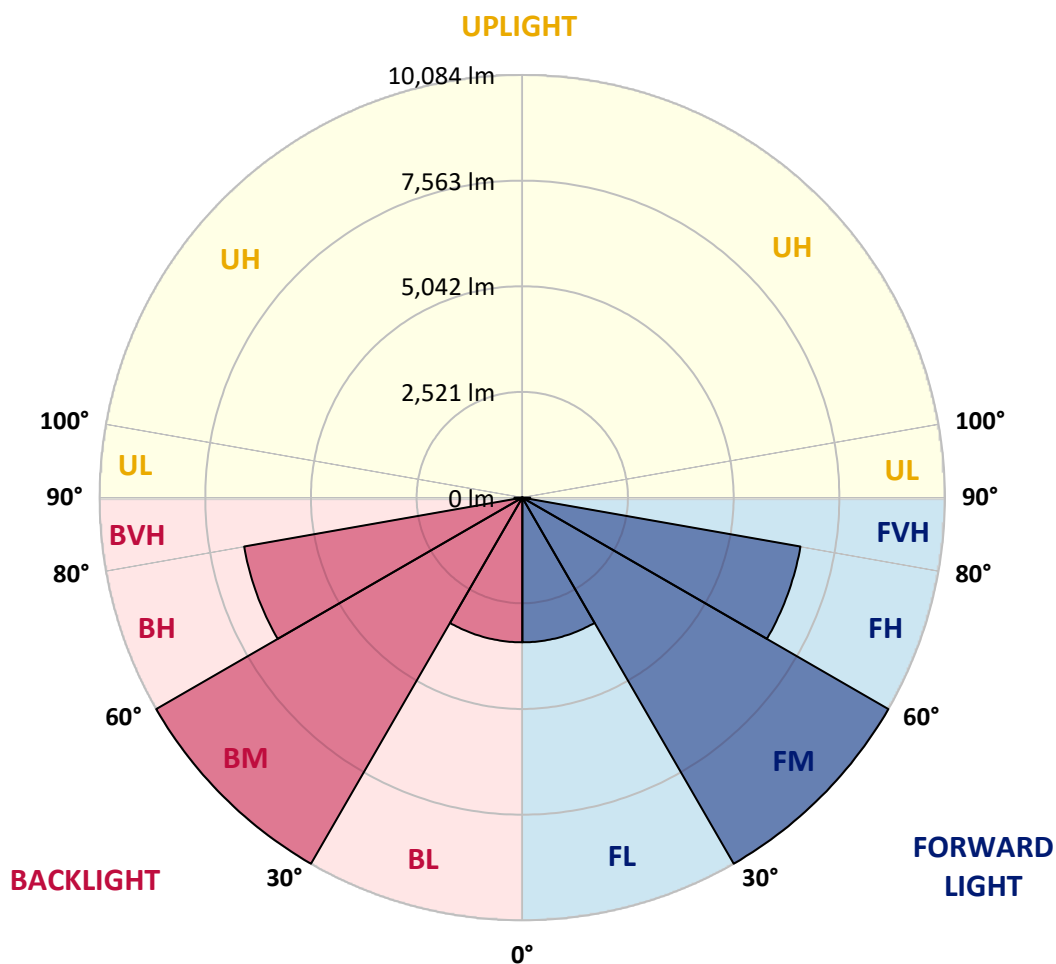
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3450.2 | 8.4 | | | |
| FM (30°-60°) | 10083.6 | 24.6 | | | |
| FH (60°-80°) | 6736.9 | 16.5 | | | G3/7500 |
| FVH (80°-90°) | 188.8 | 0.5 | | | G2/225 |
| BL (0°-30°) | 3450.2 | 8.4 | B4/5000 | | |
| BM (30°-60°) | 10083.6 | 24.6 | B5 | | |
| BH (60°-80°) | 6736.9 | 16.5 | B5 | | G5 |
| BVH (80°-90°) | 188.8 | 0.5 | | | G2/225 |
| 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° | 7243.9 | 7243.9 | 7243.9 | 7243.9 | 7243.9 | 7243.9 | 7243.9 | 7243.9 | 7243.9 | 7243.9 | 7243.9 |
| 2.5° | 7336.8 | 7332.3 | 7334.6 | 7332.3 | 7339.1 | 7334.6 | 7307.4 | 7284.7 | 7266.6 | 7268.9 | 7262.1 |
| 5° | 7493.2 | 7495.4 | 7497.7 | 7486.4 | 7502.2 | 7493.2 | 7450.1 | 7413.9 | 7377.6 | 7364.0 | 7359.5 |
| 7.5° | 7622.3 | 7633.7 | 7640.5 | 7651.8 | 7679.0 | 7679.0 | 7656.3 | 7604.2 | 7524.9 | 7479.6 | 7477.3 |
| 10° | 7751.5 | 7760.6 | 7780.9 | 7817.2 | 7862.5 | 7905.6 | 7896.5 | 7826.3 | 7724.3 | 7647.3 | 7629.1 |
| 12.5° | 7796.8 | 7808.1 | 7876.1 | 7980.3 | 8082.3 | 8166.1 | 8166.1 | 8109.5 | 7978.1 | 7860.2 | 7826.3 |
| 15° | 7638.2 | 7658.6 | 7780.9 | 8003.0 | 8270.4 | 8453.9 | 8494.7 | 8415.4 | 8274.9 | 8093.6 | 8052.8 |
| 17.5° | 7323.2 | 7373.1 | 7552.1 | 7880.6 | 8324.7 | 8705.4 | 8823.2 | 8784.7 | 8603.4 | 8372.3 | 8324.7 |
| 20° | 6985.6 | 7040.0 | 7230.3 | 7665.4 | 8279.4 | 8852.7 | 9194.8 | 9203.9 | 8979.6 | 8644.2 | 8574.0 |
| 22.5° | 6614.0 | 6654.8 | 6899.5 | 7409.3 | 8143.5 | 8886.7 | 9514.3 | 9670.7 | 9367.0 | 8916.1 | 8816.4 |
| 25° | 6197.1 | 6242.4 | 6498.5 | 7049.1 | 7887.4 | 8848.2 | 9806.6 | 10151.0 | 9772.6 | 9206.2 | 9079.3 |
| 27.5° | 5798.3 | 5816.4 | 6090.6 | 6650.3 | 7549.8 | 8748.5 | 10021.9 | 10592.9 | 10221.3 | 9446.3 | 9285.5 |
| 30° | 5415.4 | 5458.4 | 5700.9 | 6253.8 | 7162.4 | 8553.6 | 10207.7 | 11095.9 | 10703.9 | 9697.9 | 9491.7 |
| 32.5° | 5009.8 | 5061.9 | 5324.8 | 5884.4 | 6774.9 | 8261.3 | 10321.0 | 11646.5 | 11376.9 | 10105.7 | 9885.9 |
| 35° | 4620.1 | 4654.1 | 4919.2 | 5463.0 | 6396.5 | 7921.4 | 10341.4 | 12267.3 | 12244.7 | 10724.3 | 10432.0 |
| 37.5° | 4221.3 | 4271.1 | 4538.5 | 5059.7 | 5995.5 | 7561.2 | 10239.4 | 12926.7 | 13291.5 | 11583.0 | 11268.1 |
| 40° | 3838.4 | 3881.4 | 4144.2 | 4669.9 | 5540.0 | 7121.6 | 9997.0 | 13529.4 | 14512.8 | 12466.7 | 12020.4 |
| 42.5° | 3421.4 | 3432.8 | 3720.5 | 4255.3 | 5093.6 | 6611.8 | 9648.0 | 14066.4 | 15874.6 | 13651.8 | 13096.6 |
| 45° | 2947.9 | 2977.3 | 3244.7 | 3770.4 | 4581.6 | 6040.8 | 9174.4 | 14510.5 | 17601.2 | 15294.5 | 14537.7 |
| 47.5° | 2474.3 | 2499.2 | 2743.9 | 3262.8 | 4021.9 | 5385.9 | 8444.8 | 14900.3 | 19373.1 | 17381.4 | 16388.9 |
| 50° | 2012.1 | 2025.7 | 2225.1 | 2685.0 | 3392.0 | 4697.1 | 7540.8 | 15024.9 | 21376.1 | 20336.0 | 19069.4 |
| 52.5° | 1590.6 | 1611.0 | 1762.8 | 2123.1 | 2719.0 | 3883.7 | 6564.2 | 14716.7 | 23714.4 | 23839.1 | 22053.6 |
| 55° | 1289.3 | 1296.1 | 1409.4 | 1674.5 | 2125.4 | 3031.7 | 5385.9 | 13858.0 | 26229.5 | 28327.7 | 26050.5 |
| 57.5° | 1110.3 | 1114.8 | 1178.2 | 1325.5 | 1635.9 | 2286.2 | 4178.2 | 12233.3 | 28488.6 | 33586.8 | 30659.3 |
| 60° | 1008.3 | 1010.6 | 1046.8 | 1132.9 | 1296.1 | 1753.8 | 2993.2 | 9940.3 | 30718.2 | 39439.5 | 36387.4 |
| 62.5° | 944.9 | 944.9 | 969.8 | 1017.4 | 1096.7 | 1345.9 | 2168.4 | 7171.4 | 32245.4 | 45378.3 | 43447.8 |
| 65° | 883.7 | 883.7 | 901.8 | 935.8 | 978.8 | 1101.2 | 1602.0 | 4676.7 | 32206.9 | 49703.8 | 50548.9 |
| 67.5° | 813.4 | 813.4 | 827.0 | 861.0 | 885.9 | 947.1 | 1237.2 | 3063.4 | 28930.4 | 49608.6 | 54423.6 |
| 70° | 729.6 | 729.6 | 747.7 | 777.2 | 797.6 | 836.1 | 976.6 | 2095.9 | 21253.7 | 42357.9 | 48400.9 |
| 72.5° | 645.8 | 648.0 | 659.4 | 688.8 | 704.7 | 727.3 | 811.2 | 1468.3 | 13037.7 | 28842.1 | 33842.8 |
| 75° | 552.9 | 557.4 | 568.7 | 598.2 | 611.8 | 620.8 | 684.3 | 1046.8 | 6595.9 | 15550.6 | 17705.4 |
| 77.5° | 446.4 | 455.4 | 462.2 | 494.0 | 503.0 | 516.6 | 564.2 | 756.8 | 2895.8 | 5587.6 | 5637.4 |
| 80° | 326.3 | 337.6 | 358.0 | 387.5 | 394.3 | 403.3 | 430.5 | 537.0 | 1311.9 | 2551.4 | 2771.1 |
| 82.5° | 240.2 | 256.0 | 231.1 | 269.6 | 269.6 | 258.3 | 303.6 | 360.3 | 602.7 | 2526.4 | 3022.6 |
| 85° | 131.4 | 133.7 | 120.1 | 138.2 | 147.3 | 145.0 | 160.9 | 176.7 | 292.3 | 1685.8 | 1737.9 |
| 87.5° | 31.7 | 34.0 | 36.3 | 43.1 | 52.1 | 52.1 | 56.6 | 49.8 | 95.2 | 546.1 | 312.7 |
| 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)