

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: P650127

Luminaire Tested: **GLAN-SA9A-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28444 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

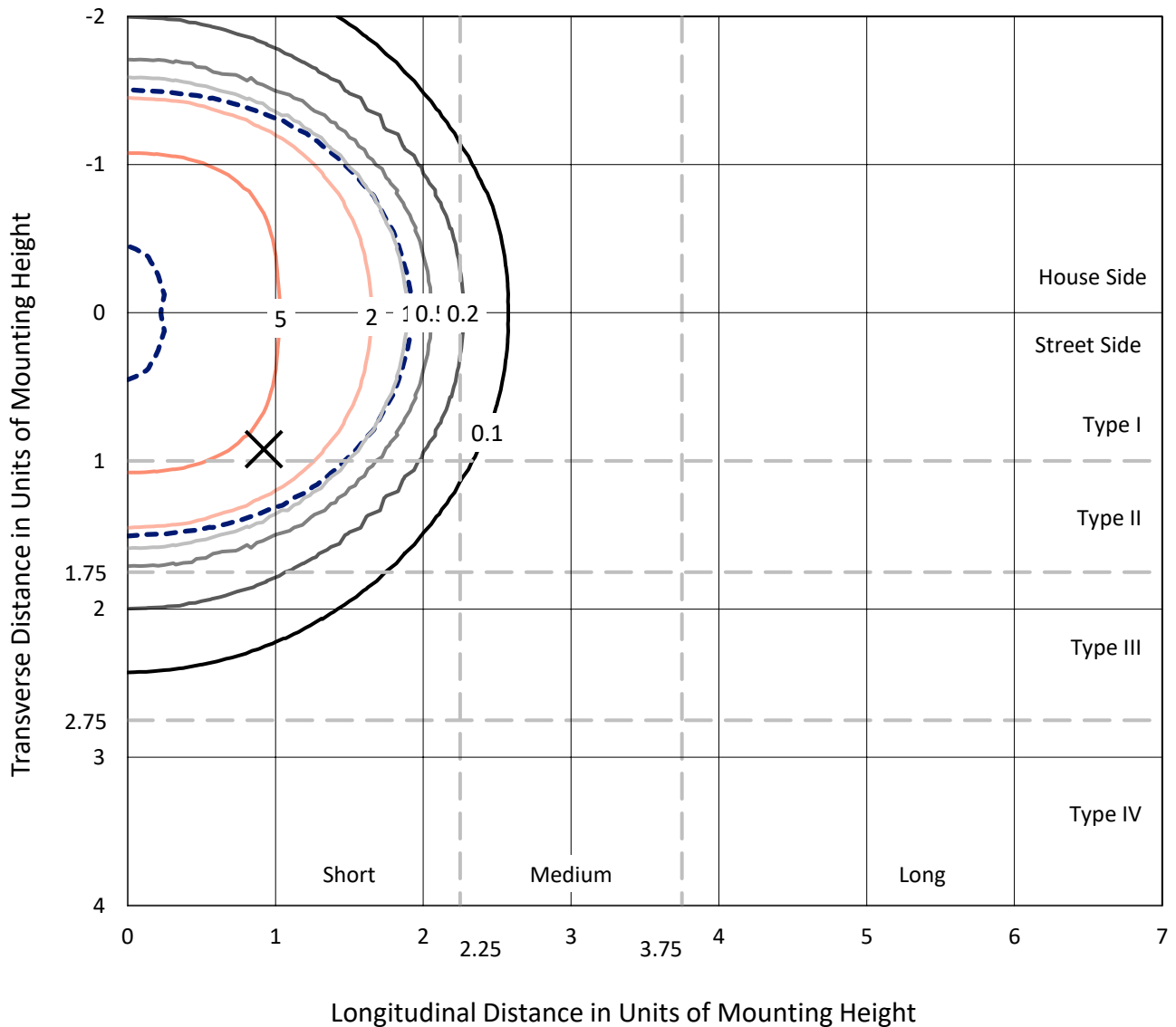
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

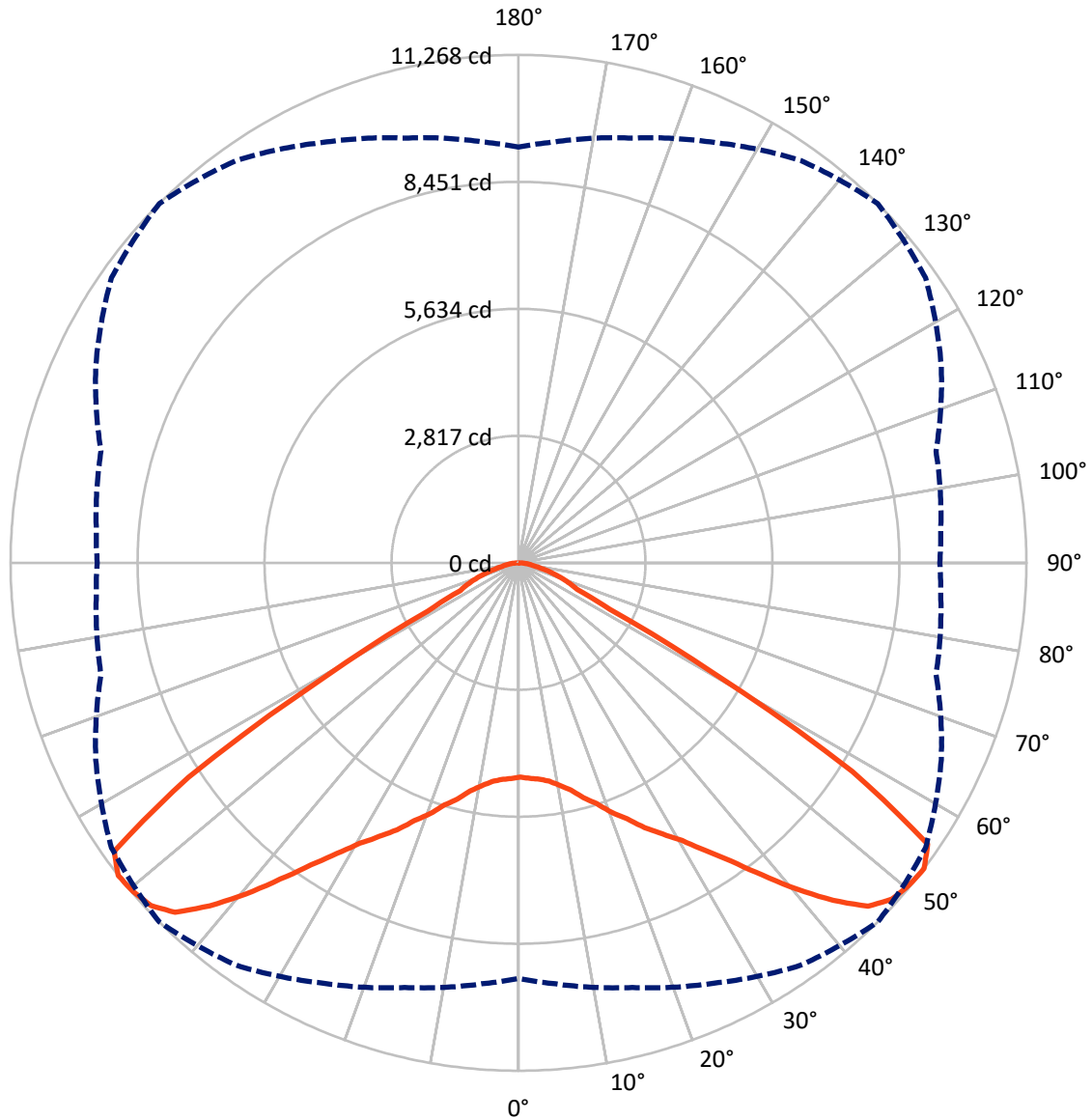
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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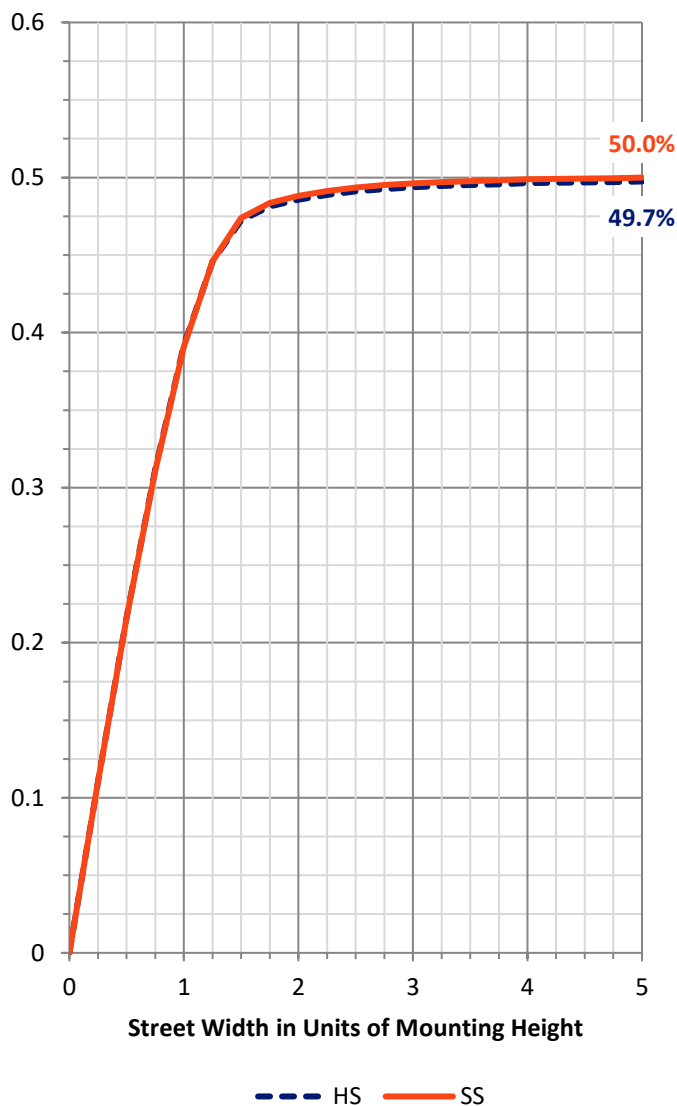
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14222.0 | 0.0 | 14222.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14222.0 | 0.0 | 14222.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28444.0 | 0.0 | 28444.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 467.1 | 1.6 |
| 10°-20° | 1535.0 | 5.4 |
| 20°-30° | 2922.4 | 10.3 |
| 30°-40° | 5018.0 | 17.6 |
| 40°-50° | 7712.8 | 27.1 |
| 50°-60° | 7832.3 | 27.5 |
| 60°-70° | 2182.7 | 7.7 |
| 70°-80° | 643.9 | 2.3 |
| 80°-90° | 129.7 | 0.5 |
| 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° | 28444.0 | 100.0 |
| 0°-180° | 28444.0 | 100.0 |

Coefficient of Utilization



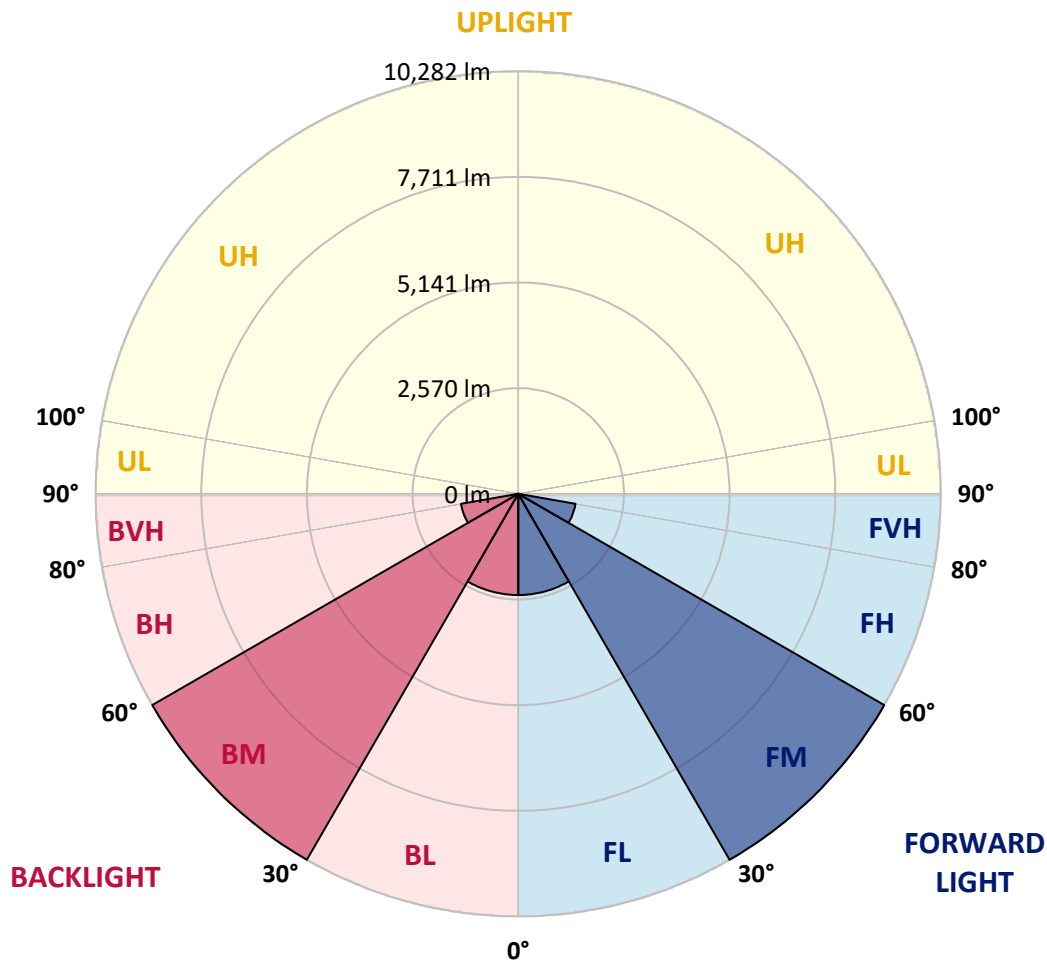
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2462.3 | 8.7 | | | |
| FM (30°-60°) | 10281.6 | 36.1 | | | |
| FH (60°-80°) | 1413.3 | 5.0 | | | G1/1800 |
| FVH (80°-90°) | 64.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2462.3 | 8.7 | B3/2500 | | |
| BM (30°-60°) | 10281.6 | 36.1 | B5 | | |
| BH (60°-80°) | 1413.3 | 5.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 64.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 4754.8 | 4754.8 | 4754.8 | 4754.8 | 4754.8 | 4754.8 | 4754.8 | 4754.8 | 4754.8 | 4754.8 | 4754.8 |
| 2.5° | 4765.4 | 4715.9 | 4733.6 | 4744.2 | 4790.1 | 4786.6 | 4776.0 | 4790.1 | 4804.3 | 4807.8 | 4800.7 |
| 5° | 4761.9 | 4726.6 | 4740.7 | 4751.2 | 4797.1 | 4821.9 | 4814.8 | 4874.8 | 4917.2 | 4906.6 | 4959.5 |
| 7.5° | 4733.6 | 4754.8 | 4737.2 | 4790.1 | 4828.9 | 4888.9 | 4952.5 | 5008.9 | 5061.9 | 5121.9 | 5132.5 |
| 10° | 4797.1 | 4797.1 | 4828.9 | 4871.3 | 4973.6 | 5019.6 | 5111.3 | 5192.5 | 5294.9 | 5365.5 | 5337.2 |
| 12.5° | 4864.2 | 4874.8 | 4874.8 | 4984.3 | 5069.0 | 5171.3 | 5256.0 | 5365.5 | 5510.2 | 5594.9 | 5637.3 |
| 15° | 4931.3 | 4938.4 | 4973.6 | 5121.9 | 5249.0 | 5411.4 | 5489.0 | 5587.9 | 5669.1 | 5827.9 | 5831.4 |
| 17.5° | 4991.3 | 5030.1 | 5136.0 | 5301.9 | 5460.8 | 5616.1 | 5739.6 | 5842.0 | 5912.6 | 5976.2 | 5962.0 |
| 20° | 5217.2 | 5245.5 | 5354.9 | 5520.8 | 5757.3 | 5909.1 | 5951.4 | 5969.1 | 6015.0 | 6142.1 | 6103.3 |
| 22.5° | 5436.1 | 5446.6 | 5549.0 | 5803.2 | 5969.1 | 6170.3 | 6216.2 | 6205.6 | 6223.2 | 6255.0 | 6311.5 |
| 25° | 5662.0 | 5679.6 | 5820.8 | 6036.1 | 6269.2 | 6509.2 | 6548.0 | 6466.8 | 6442.1 | 6477.4 | 6480.9 |
| 27.5° | 5951.4 | 5954.9 | 6135.0 | 6322.1 | 6586.8 | 6812.7 | 6872.8 | 6809.2 | 6692.7 | 6721.0 | 6766.8 |
| 30° | 6318.6 | 6293.8 | 6473.8 | 6742.1 | 7021.0 | 7148.1 | 7250.4 | 7218.7 | 7091.6 | 7066.9 | 7028.1 |
| 32.5° | 6742.1 | 6749.2 | 6911.5 | 7204.5 | 7388.1 | 7599.9 | 7709.3 | 7656.4 | 7575.2 | 7532.9 | 7557.5 |
| 35° | 7338.7 | 7370.5 | 7479.9 | 7723.4 | 8020.0 | 8125.9 | 8298.9 | 8185.9 | 7974.1 | 8027.0 | 8072.9 |
| 37.5° | 7829.4 | 7921.1 | 8125.9 | 8415.3 | 8591.8 | 8786.0 | 8849.5 | 8697.7 | 8542.4 | 8478.9 | 8630.6 |
| 40° | 8581.2 | 8553.0 | 8778.9 | 9068.3 | 9329.6 | 9523.7 | 9442.5 | 9290.8 | 8906.0 | 8909.5 | 8951.9 |
| 42.5° | 9227.2 | 9241.4 | 9414.3 | 9760.3 | 10116.8 | 10236.8 | 9979.1 | 9608.4 | 9181.3 | 9135.4 | 9227.2 |
| 45° | 9770.8 | 9827.3 | 9926.1 | 10388.5 | 10738.0 | 10868.6 | 10392.1 | 9954.4 | 9382.5 | 9191.9 | 9343.7 |
| 47.5° | 9964.9 | 10056.7 | 10272.0 | 10695.6 | 11041.6 | 11147.5 | 10766.2 | 10137.9 | 9569.6 | 9259.0 | 9340.2 |
| 50° | 9993.2 | 9961.4 | 10314.4 | 10702.7 | 11006.2 | 11235.7 | 10900.4 | 10272.0 | 9523.7 | 9361.3 | 9336.6 |
| 52.5° | 9220.1 | 9375.5 | 9753.1 | 10286.2 | 10900.4 | 11267.5 | 11020.4 | 10346.2 | 9587.3 | 9403.7 | 9343.7 |
| 55° | 7462.2 | 7278.7 | 7967.0 | 8863.6 | 9993.2 | 11013.4 | 10978.1 | 10385.0 | 9626.0 | 9474.3 | 9393.1 |
| 57.5° | 4165.3 | 4218.3 | 4606.5 | 5580.8 | 7038.6 | 8733.0 | 9760.3 | 9975.6 | 9608.4 | 9520.2 | 9562.5 |
| 60° | 1927.4 | 1945.0 | 2110.9 | 2566.3 | 3469.9 | 4952.5 | 6304.4 | 7677.5 | 8309.4 | 8436.5 | 8436.5 |
| 62.5° | 1436.6 | 1429.6 | 1472.0 | 1553.2 | 1743.7 | 2276.8 | 3039.3 | 4130.0 | 4998.4 | 5605.5 | 5764.4 |
| 65° | 1299.0 | 1295.5 | 1316.7 | 1344.9 | 1359.1 | 1433.1 | 1602.6 | 1937.9 | 2220.4 | 2382.7 | 2354.5 |
| 67.5° | 1136.6 | 1133.1 | 1140.1 | 1157.8 | 1182.5 | 1221.3 | 1263.7 | 1334.3 | 1433.1 | 1426.1 | 1408.5 |
| 70° | 917.8 | 917.8 | 928.4 | 942.5 | 970.8 | 1016.6 | 1066.1 | 1115.5 | 1200.2 | 1217.8 | 1214.3 |
| 72.5° | 677.8 | 667.1 | 688.3 | 716.6 | 744.8 | 801.3 | 854.3 | 900.1 | 960.1 | 977.8 | 970.8 |
| 75° | 430.6 | 437.7 | 451.8 | 483.6 | 533.0 | 571.8 | 628.4 | 667.1 | 706.0 | 720.1 | 723.6 |
| 77.5° | 240.1 | 247.1 | 271.8 | 310.6 | 360.0 | 402.4 | 451.8 | 483.6 | 508.3 | 511.8 | 515.4 |
| 80° | 144.7 | 148.2 | 173.0 | 208.3 | 250.6 | 296.5 | 335.4 | 367.1 | 388.3 | 377.7 | 374.2 |
| 82.5° | 88.2 | 91.8 | 113.0 | 144.7 | 180.0 | 215.3 | 257.7 | 286.0 | 307.1 | 293.0 | 278.8 |
| 85° | 45.9 | 49.4 | 67.1 | 88.2 | 116.5 | 134.1 | 134.1 | 120.0 | 116.5 | 109.5 | 105.9 |
| 87.5° | 14.1 | 14.1 | 17.6 | 21.1 | 17.6 | 21.1 | 24.7 | 28.3 | 28.3 | 31.8 | 28.3 |
| 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)