

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: P654032

Luminaire Tested: **GLAN-SA8A-840-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654032
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-SA8A-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 27213.1 lumens
Efficiency: N/A
Efficacy: 111.5 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

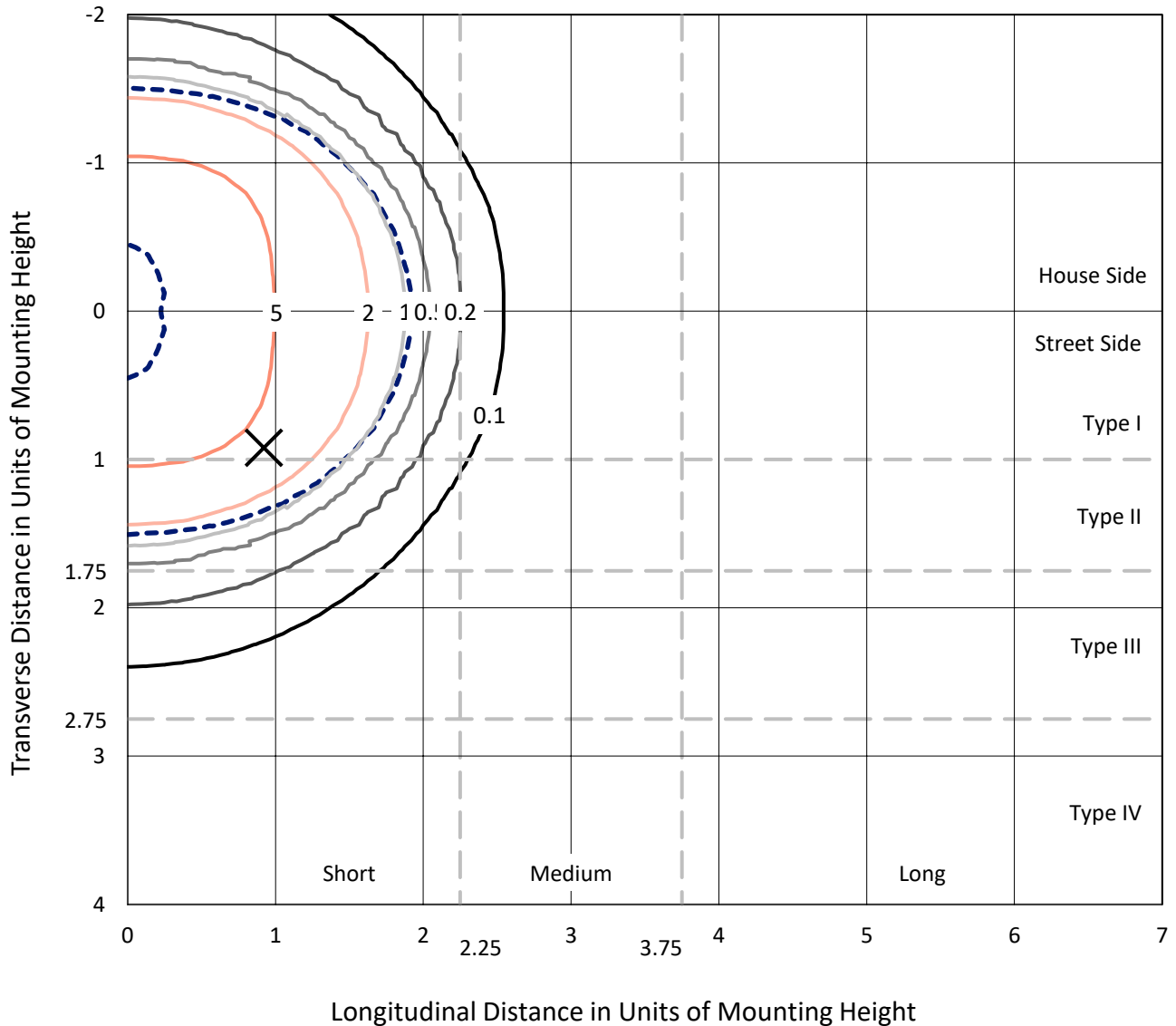
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

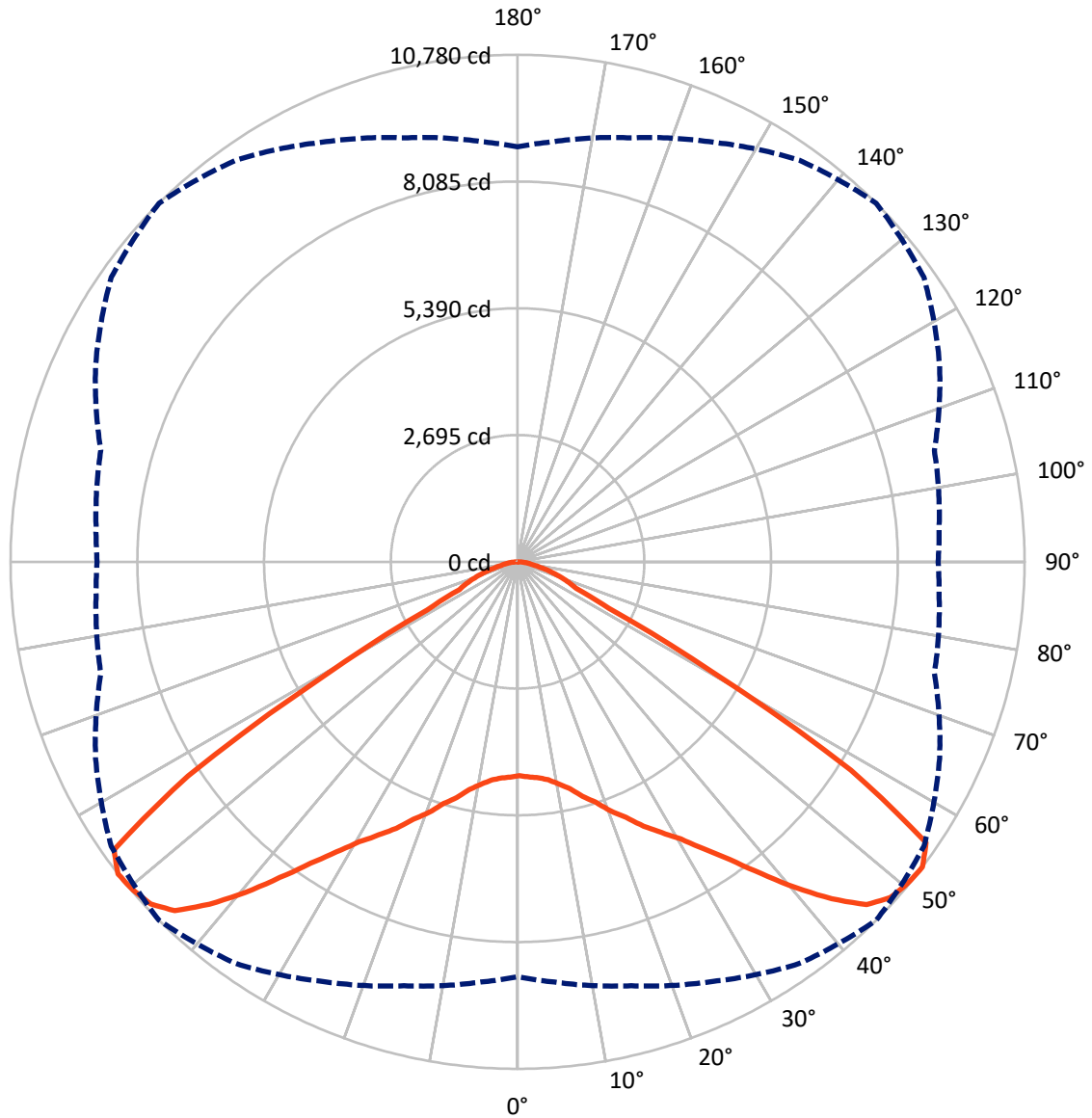
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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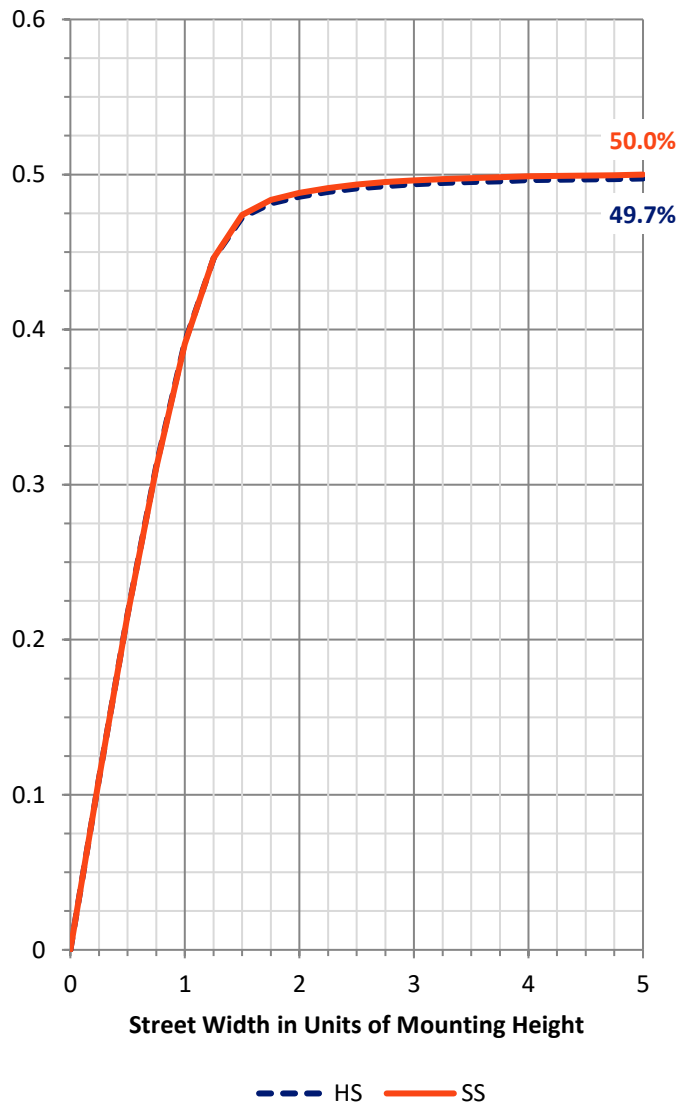
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13606.5 | 0.0 | 13606.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13606.5 | 0.0 | 13606.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27213.1 | 0.0 | 27213.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 446.9 | 1.6 |
| 10°-20° | 1468.6 | 5.4 |
| 20°-30° | 2796.0 | 10.3 |
| 30°-40° | 4800.9 | 17.6 |
| 40°-50° | 7379.1 | 27.1 |
| 50°-60° | 7493.3 | 27.5 |
| 60°-70° | 2088.3 | 7.7 |
| 70°-80° | 616.0 | 2.3 |
| 80°-90° | 124.1 | 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° | 27213.1 | 100.0 |
| 0°-180° | 27213.1 | 100.0 |

Coefficient of Utilization



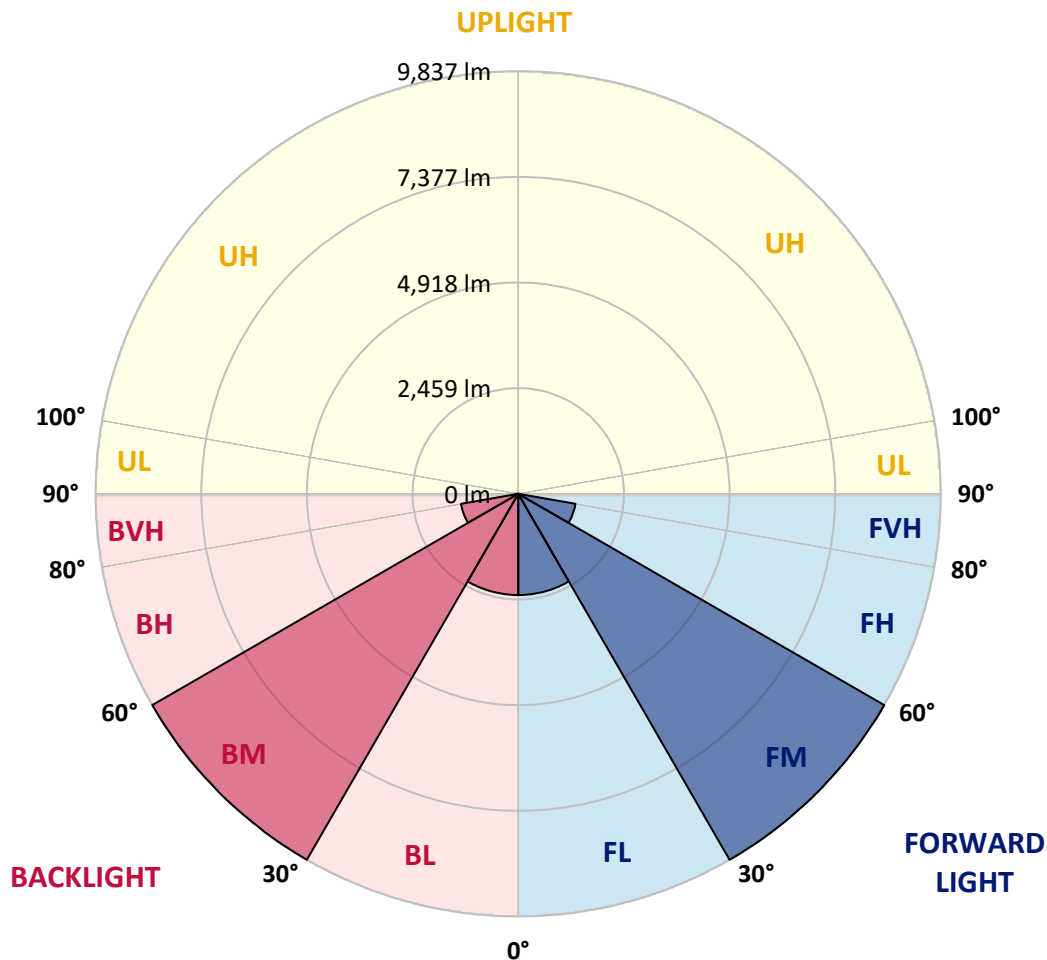
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2355.7 | 8.7 | | | |
| FM (30°-60°) | 9836.6 | 36.1 | | | |
| FH (60°-80°) | 1352.2 | 5.0 | | | G1/1800 |
| FVH (80°-90°) | 62.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2355.7 | 8.7 | B3/2500 | | |
| BM (30°-60°) | 9836.6 | 36.1 | B5 | | |
| BH (60°-80°) | 1352.2 | 5.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 62.0 | 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° | 4549.1 | 4549.1 | 4549.1 | 4549.1 | 4549.1 | 4549.1 | 4549.1 | 4549.1 | 4549.1 | 4549.1 | 4549.1 |
| 2.5° | 4559.1 | 4511.9 | 4528.8 | 4538.9 | 4582.8 | 4579.4 | 4569.3 | 4582.8 | 4596.3 | 4599.7 | 4593.0 |
| 5° | 4555.8 | 4522.0 | 4535.5 | 4545.7 | 4589.6 | 4613.2 | 4606.4 | 4663.8 | 4704.4 | 4694.2 | 4744.9 |
| 7.5° | 4528.8 | 4549.1 | 4532.1 | 4582.8 | 4619.9 | 4677.4 | 4738.1 | 4792.2 | 4842.8 | 4900.3 | 4910.3 |
| 10° | 4589.6 | 4589.6 | 4619.9 | 4660.5 | 4758.4 | 4802.3 | 4890.1 | 4967.8 | 5065.8 | 5133.3 | 5106.2 |
| 12.5° | 4653.8 | 4663.8 | 4663.8 | 4768.6 | 4849.6 | 4947.5 | 5028.6 | 5133.3 | 5271.7 | 5352.8 | 5393.3 |
| 15° | 4717.8 | 4724.7 | 4758.4 | 4900.3 | 5021.9 | 5177.2 | 5251.5 | 5346.1 | 5423.7 | 5575.7 | 5579.0 |
| 17.5° | 4775.3 | 4812.5 | 4913.8 | 5072.5 | 5224.5 | 5373.1 | 5491.2 | 5589.2 | 5656.7 | 5717.5 | 5704.0 |
| 20° | 4991.4 | 5018.4 | 5123.1 | 5281.9 | 5508.1 | 5653.4 | 5693.9 | 5710.7 | 5754.6 | 5876.2 | 5839.1 |
| 22.5° | 5200.8 | 5210.9 | 5308.9 | 5552.0 | 5710.7 | 5903.2 | 5947.1 | 5937.0 | 5953.9 | 5984.3 | 6038.4 |
| 25° | 5417.0 | 5433.9 | 5568.9 | 5774.9 | 5997.8 | 6227.4 | 6264.6 | 6187.0 | 6163.3 | 6197.1 | 6200.4 |
| 27.5° | 5693.9 | 5697.3 | 5869.5 | 6048.5 | 6301.8 | 6517.9 | 6575.3 | 6514.6 | 6403.1 | 6430.1 | 6474.0 |
| 30° | 6045.1 | 6021.5 | 6193.7 | 6450.4 | 6717.2 | 6838.8 | 6936.7 | 6906.3 | 6784.7 | 6761.1 | 6723.9 |
| 32.5° | 6450.4 | 6457.1 | 6612.4 | 6892.8 | 7068.4 | 7271.0 | 7375.7 | 7325.0 | 7247.4 | 7206.9 | 7230.5 |
| 35° | 7021.1 | 7051.5 | 7156.2 | 7389.2 | 7672.9 | 7774.2 | 7939.7 | 7831.6 | 7629.0 | 7679.7 | 7723.6 |
| 37.5° | 7490.5 | 7578.3 | 7774.2 | 8051.1 | 8220.0 | 8405.7 | 8466.5 | 8321.3 | 8172.7 | 8111.9 | 8257.1 |
| 40° | 8209.8 | 8182.8 | 8399.0 | 8675.9 | 8925.8 | 9111.6 | 9033.9 | 8888.7 | 8520.6 | 8524.0 | 8564.5 |
| 42.5° | 8827.9 | 8841.3 | 9006.9 | 9337.8 | 9678.9 | 9793.8 | 9547.2 | 9192.6 | 8784.0 | 8740.1 | 8827.9 |
| 45° | 9348.0 | 9402.0 | 9496.6 | 9938.9 | 10273.3 | 10398.3 | 9942.3 | 9523.6 | 8976.5 | 8794.1 | 8939.3 |
| 47.5° | 9533.7 | 9621.5 | 9827.5 | 10232.8 | 10563.7 | 10665.1 | 10300.3 | 9699.2 | 9155.5 | 8858.3 | 8936.0 |
| 50° | 9560.7 | 9530.3 | 9868.0 | 10239.5 | 10530.0 | 10749.5 | 10428.7 | 9827.5 | 9111.6 | 8956.2 | 8932.6 |
| 52.5° | 8821.1 | 8969.7 | 9331.1 | 9841.0 | 10428.7 | 10779.9 | 10543.4 | 9898.4 | 9172.4 | 8996.8 | 8939.3 |
| 55° | 7139.3 | 6963.6 | 7622.2 | 8480.1 | 9560.7 | 10536.7 | 10502.9 | 9935.6 | 9209.5 | 9064.3 | 8986.6 |
| 57.5° | 3985.1 | 4035.7 | 4407.2 | 5339.3 | 6734.1 | 8355.1 | 9337.8 | 9543.8 | 9192.6 | 9108.2 | 9148.7 |
| 60° | 1843.9 | 1860.8 | 2019.6 | 2455.2 | 3319.8 | 4738.1 | 6031.6 | 7345.3 | 7949.8 | 8071.4 | 8071.4 |
| 62.5° | 1374.5 | 1367.7 | 1408.3 | 1486.0 | 1668.3 | 2178.3 | 2907.8 | 3951.3 | 4782.0 | 5362.9 | 5514.9 |
| 65° | 1242.8 | 1239.4 | 1259.6 | 1286.7 | 1300.2 | 1371.1 | 1533.2 | 1854.1 | 2124.2 | 2279.6 | 2252.5 |
| 67.5° | 1087.4 | 1084.0 | 1090.9 | 1107.7 | 1131.3 | 1168.5 | 1209.0 | 1276.6 | 1371.1 | 1364.4 | 1347.5 |
| 70° | 878.1 | 878.1 | 888.2 | 901.7 | 928.7 | 972.6 | 1019.9 | 1067.1 | 1148.2 | 1165.1 | 1161.8 |
| 72.5° | 648.4 | 638.3 | 658.5 | 685.6 | 712.6 | 766.7 | 817.3 | 861.2 | 918.6 | 935.4 | 928.7 |
| 75° | 412.0 | 418.7 | 432.3 | 462.6 | 510.0 | 547.1 | 601.1 | 638.3 | 675.4 | 688.9 | 692.3 |
| 77.5° | 229.7 | 236.4 | 260.0 | 297.2 | 344.5 | 385.0 | 432.3 | 462.6 | 486.4 | 489.7 | 493.1 |
| 80° | 138.4 | 141.9 | 165.5 | 199.2 | 239.8 | 283.7 | 320.8 | 351.2 | 371.5 | 361.4 | 358.0 |
| 82.5° | 84.4 | 87.8 | 108.1 | 138.4 | 172.2 | 206.0 | 246.5 | 273.6 | 293.8 | 280.3 | 266.8 |
| 85° | 43.9 | 47.3 | 64.2 | 84.4 | 111.4 | 128.3 | 128.3 | 114.8 | 111.4 | 104.7 | 101.3 |
| 87.5° | 13.5 | 13.5 | 16.9 | 20.3 | 16.9 | 20.3 | 23.6 | 27.0 | 27.0 | 30.4 | 27.0 |
| 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)