

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: P649622

Luminaire Tested: **GLAN-SA9D-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49460.5 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

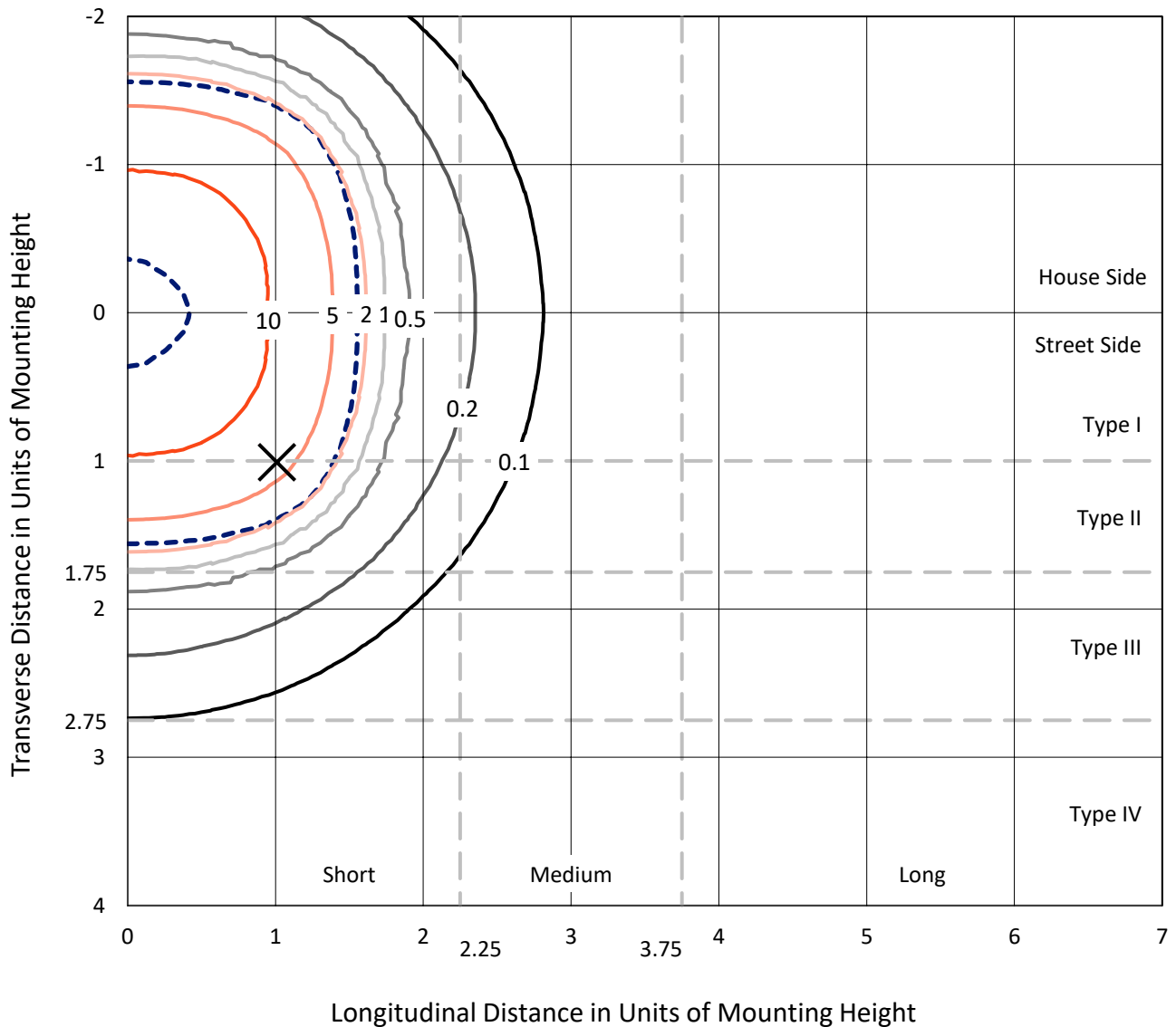
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

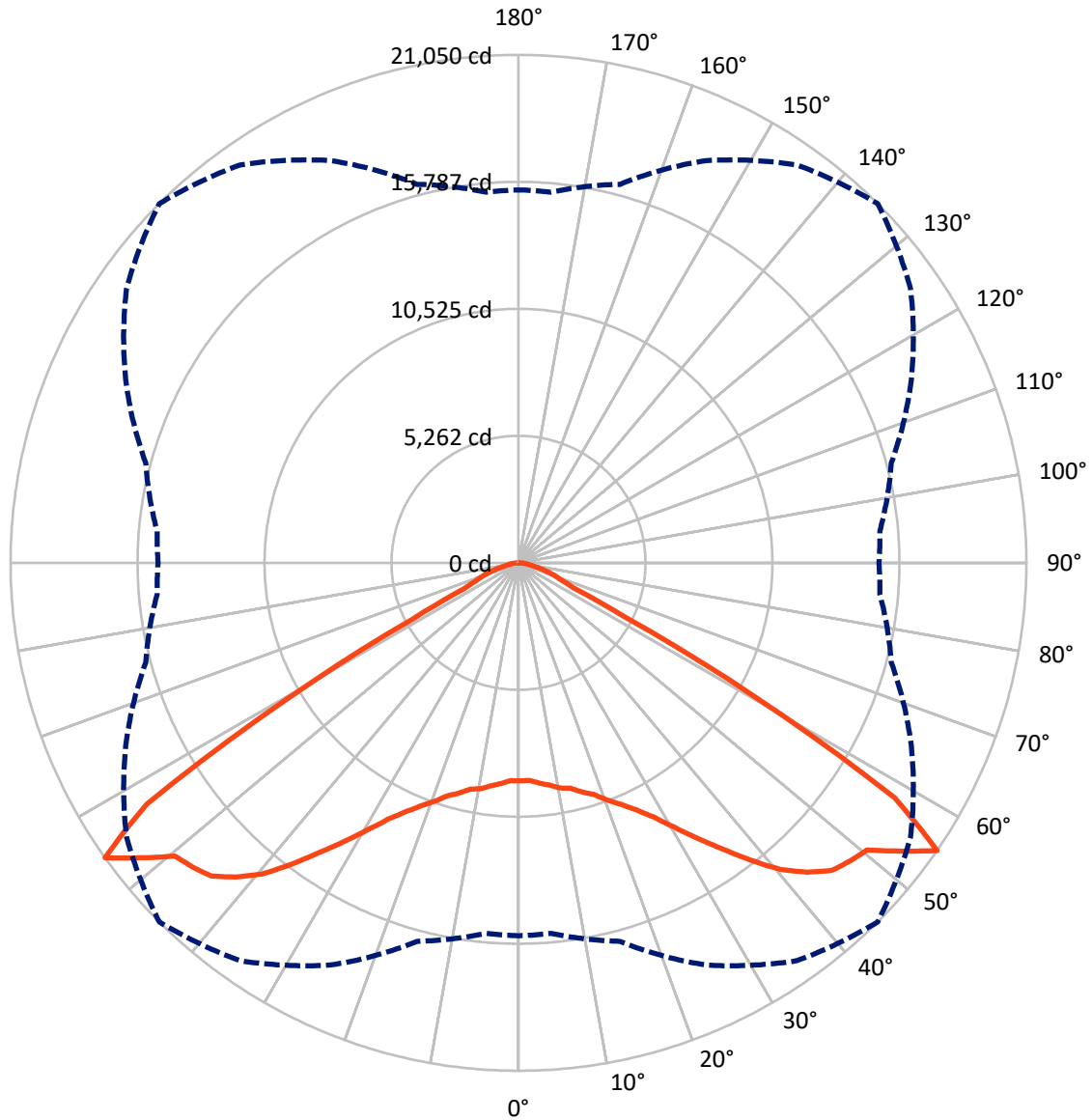
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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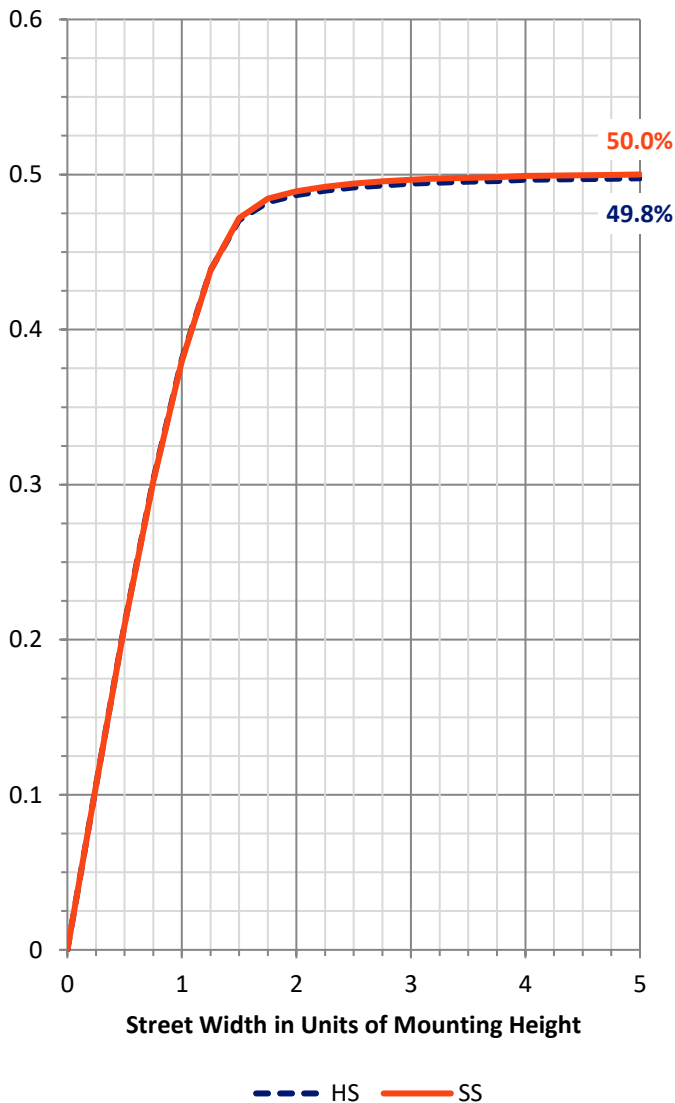
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 24730.3 | 0.0 | 24730.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 24730.3 | 0.0 | 24730.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 49460.5 | 0.0 | 49460.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 882.2 | 1.8 |
| 10°-20° | 2795.3 | 5.7 |
| 20°-30° | 5212.4 | 10.5 |
| 30°-40° | 8727.2 | 17.6 |
| 40°-50° | 13580.2 | 27.5 |
| 50°-60° | 14100.5 | 28.5 |
| 60°-70° | 2990.3 | 6.0 |
| 70°-80° | 984.8 | 2.0 |
| 80°-90° | 187.6 | 0.4 |
| 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° | 49460.5 | 100.0 |
| 0°-180° | 49460.5 | 100.0 |

Coefficient of Utilization

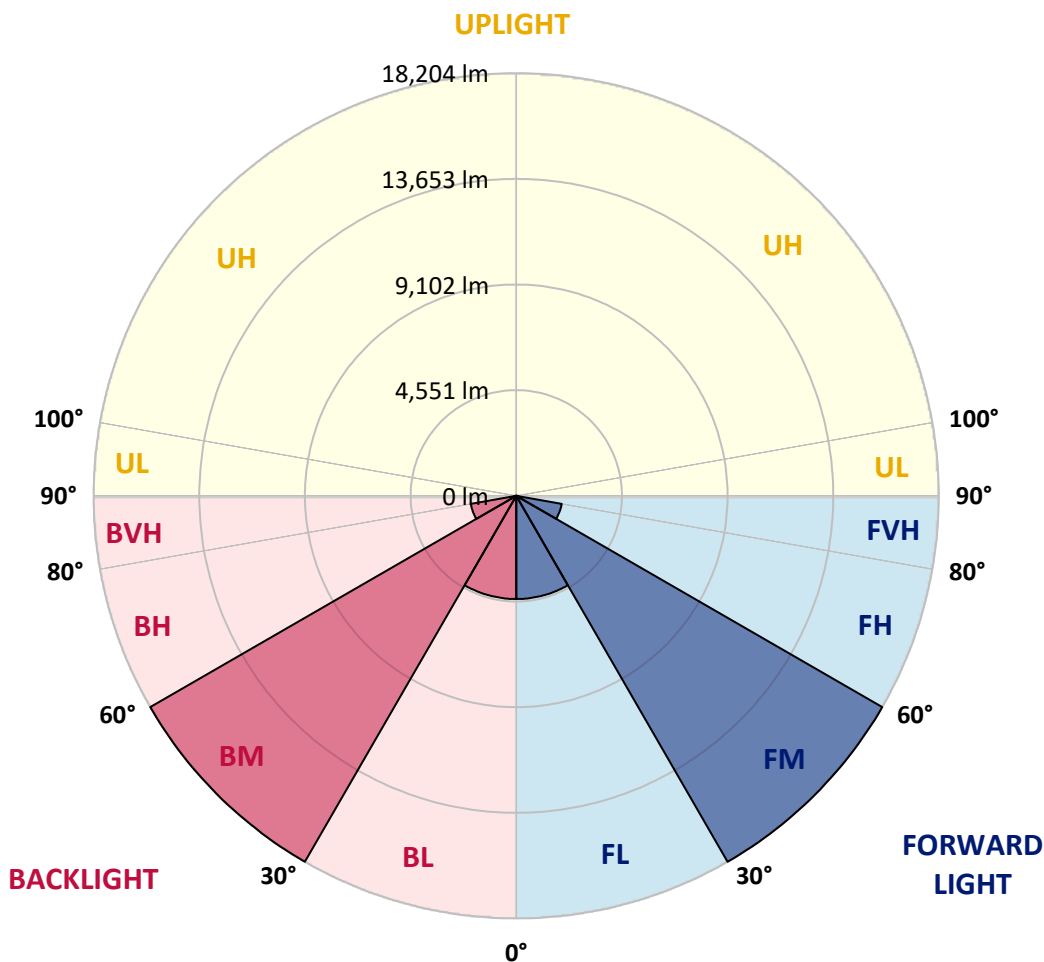


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4445.0 | 9.0 | | | |
| FM (30°-60°) | 18204.0 | 36.8 | | | |
| FH (60°-80°) | 1987.5 | 4.0 | | | G2/5000 |
| FVH (80°-90°) | 93.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 4445.0 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 18204.0 | 36.8 | B5 | | |
| BH (60°-80°) | 1987.5 | 4.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 93.8 | 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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9030.7 | 9030.7 | 9030.7 | 9030.7 | 9030.7 | 9030.7 | 9030.7 | 9030.7 | 9030.7 | 9030.7 | 9030.7 |
| 2.5° | 9138.3 | 9096.5 | 9024.8 | 9078.6 | 9120.4 | 9030.7 | 9066.6 | 9084.5 | 9072.6 | 9024.8 | 9042.7 |
| 5° | 9269.9 | 9245.9 | 9186.2 | 9228.0 | 9174.2 | 9174.2 | 9138.3 | 9090.6 | 9162.3 | 9150.3 | 9180.2 |
| 7.5° | 9269.9 | 9239.9 | 9359.5 | 9281.8 | 9305.7 | 9305.7 | 9245.9 | 9198.1 | 9234.0 | 9180.2 | 9150.3 |
| 10° | 9455.1 | 9496.9 | 9443.1 | 9461.1 | 9449.1 | 9491.0 | 9401.3 | 9371.4 | 9341.6 | 9323.7 | 9287.8 |
| 12.5° | 9676.2 | 9646.3 | 9664.3 | 9652.4 | 9694.2 | 9586.6 | 9532.8 | 9467.0 | 9520.8 | 9443.1 | 9496.9 |
| 15° | 9855.5 | 9837.6 | 9855.5 | 9903.4 | 9861.5 | 9855.5 | 9759.9 | 9694.2 | 9610.5 | 9628.4 | 9544.8 |
| 17.5° | 10100.6 | 10082.7 | 10088.6 | 10130.5 | 10124.5 | 10094.6 | 10022.9 | 9897.4 | 9867.5 | 9819.7 | 9765.9 |
| 20° | 10465.2 | 10435.3 | 10423.3 | 10441.2 | 10471.1 | 10495.0 | 10351.6 | 10303.8 | 10202.2 | 10124.5 | 10034.8 |
| 22.5° | 10776.0 | 10764.0 | 10811.8 | 10734.1 | 10799.8 | 10871.6 | 10734.1 | 10710.2 | 10459.2 | 10417.3 | 10321.7 |
| 25° | 11206.3 | 11188.4 | 11158.5 | 11272.0 | 11349.7 | 11343.7 | 11212.2 | 11080.8 | 10889.5 | 10841.7 | 10841.7 |
| 27.5° | 11660.5 | 11558.9 | 11714.3 | 11744.1 | 11881.6 | 11923.4 | 11809.9 | 11618.6 | 11439.4 | 11337.8 | 11361.6 |
| 30° | 12228.3 | 12132.7 | 12168.5 | 12383.7 | 12563.0 | 12718.3 | 12431.5 | 12150.6 | 11899.6 | 11720.3 | 11690.3 |
| 32.5° | 12796.1 | 12700.4 | 12808.0 | 13017.2 | 13375.8 | 13608.9 | 13328.0 | 12837.9 | 12545.1 | 12282.1 | 12335.9 |
| 35° | 13256.3 | 13328.0 | 13501.3 | 13818.1 | 14188.7 | 14565.1 | 14116.9 | 13740.4 | 13322.0 | 13029.1 | 13071.0 |
| 37.5° | 13997.4 | 14218.5 | 14356.0 | 14720.6 | 15246.5 | 15635.0 | 15168.8 | 14678.7 | 14230.5 | 13848.0 | 13716.4 |
| 40° | 14965.6 | 15115.0 | 15270.4 | 15700.7 | 16322.3 | 16710.8 | 16268.5 | 15629.0 | 15186.8 | 14792.3 | 14774.3 |
| 42.5° | 16029.4 | 16172.9 | 16334.2 | 16860.2 | 17230.8 | 17523.6 | 17117.2 | 16776.6 | 16286.5 | 15975.6 | 15957.7 |
| 45° | 17266.6 | 17165.0 | 17344.3 | 17690.9 | 18001.7 | 18193.0 | 17930.0 | 17762.7 | 17410.1 | 17123.2 | 17093.3 |
| 47.5° | 18091.4 | 18001.7 | 18324.5 | 18635.2 | 18683.1 | 18473.9 | 18527.7 | 18683.1 | 18312.6 | 17840.3 | 17989.8 |
| 50° | 18569.5 | 18569.5 | 18784.7 | 19071.6 | 18982.0 | 18713.0 | 19137.3 | 19149.3 | 18778.7 | 18360.3 | 18360.3 |
| 52.5° | 17738.8 | 17924.0 | 18533.7 | 19472.0 | 19770.8 | 19848.6 | 19752.9 | 19346.5 | 18378.3 | 17523.6 | 17481.8 |
| 55° | 15455.7 | 15413.8 | 16238.6 | 18390.2 | 20129.4 | 21049.9 | 19830.6 | 17959.9 | 15993.6 | 15031.3 | 14935.7 |
| 57.5° | 10052.8 | 10100.6 | 11331.8 | 13525.2 | 16662.9 | 18378.3 | 16322.3 | 13692.6 | 11331.8 | 10004.9 | 10130.5 |
| 60° | 4524.3 | 4685.7 | 5432.8 | 7070.4 | 9765.9 | 11164.4 | 9789.8 | 7429.0 | 5701.7 | 4948.7 | 5014.4 |
| 62.5° | 2599.9 | 2629.7 | 2659.6 | 3155.6 | 4159.8 | 4918.8 | 4321.1 | 3335.0 | 2940.6 | 2809.0 | 2809.0 |
| 65° | 2193.4 | 2175.5 | 2181.5 | 2223.3 | 2330.9 | 2486.3 | 2420.6 | 2330.9 | 2342.9 | 2330.9 | 2313.0 |
| 67.5° | 1864.7 | 1888.6 | 1870.7 | 1900.6 | 1906.5 | 1930.5 | 1972.3 | 2008.2 | 2014.1 | 2026.1 | 2014.1 |
| 70° | 1530.1 | 1536.0 | 1548.0 | 1571.9 | 1577.8 | 1595.8 | 1655.6 | 1685.4 | 1703.3 | 1703.3 | 1727.3 |
| 72.5° | 1171.4 | 1165.4 | 1177.4 | 1201.3 | 1231.2 | 1237.1 | 1290.9 | 1332.8 | 1356.7 | 1326.8 | 1332.8 |
| 75° | 771.0 | 777.0 | 794.9 | 812.8 | 854.6 | 896.5 | 914.5 | 956.3 | 962.2 | 974.2 | 944.3 |
| 77.5° | 460.2 | 472.1 | 490.1 | 525.9 | 561.8 | 597.7 | 639.5 | 669.4 | 681.4 | 669.4 | 633.5 |
| 80° | 298.9 | 298.9 | 322.8 | 352.6 | 394.5 | 424.3 | 448.3 | 472.1 | 490.1 | 472.1 | 460.2 |
| 82.5° | 185.3 | 185.3 | 215.2 | 251.0 | 280.9 | 298.9 | 334.7 | 364.6 | 382.5 | 370.5 | 352.6 |
| 85° | 95.6 | 101.6 | 125.5 | 155.4 | 179.3 | 191.3 | 185.3 | 167.3 | 149.4 | 143.4 | 131.5 |
| 87.5° | 29.9 | 29.9 | 35.9 | 35.9 | 29.9 | 29.9 | 35.9 | 29.9 | 35.9 | 35.9 | 35.9 |
| 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)