

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: McGRAW-EDISON

Report Number: P531788

Luminaire Tested: **GALN-SA7A-760-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-760-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27023 lumens
Efficiency: N/A
Efficacy: 125.7 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

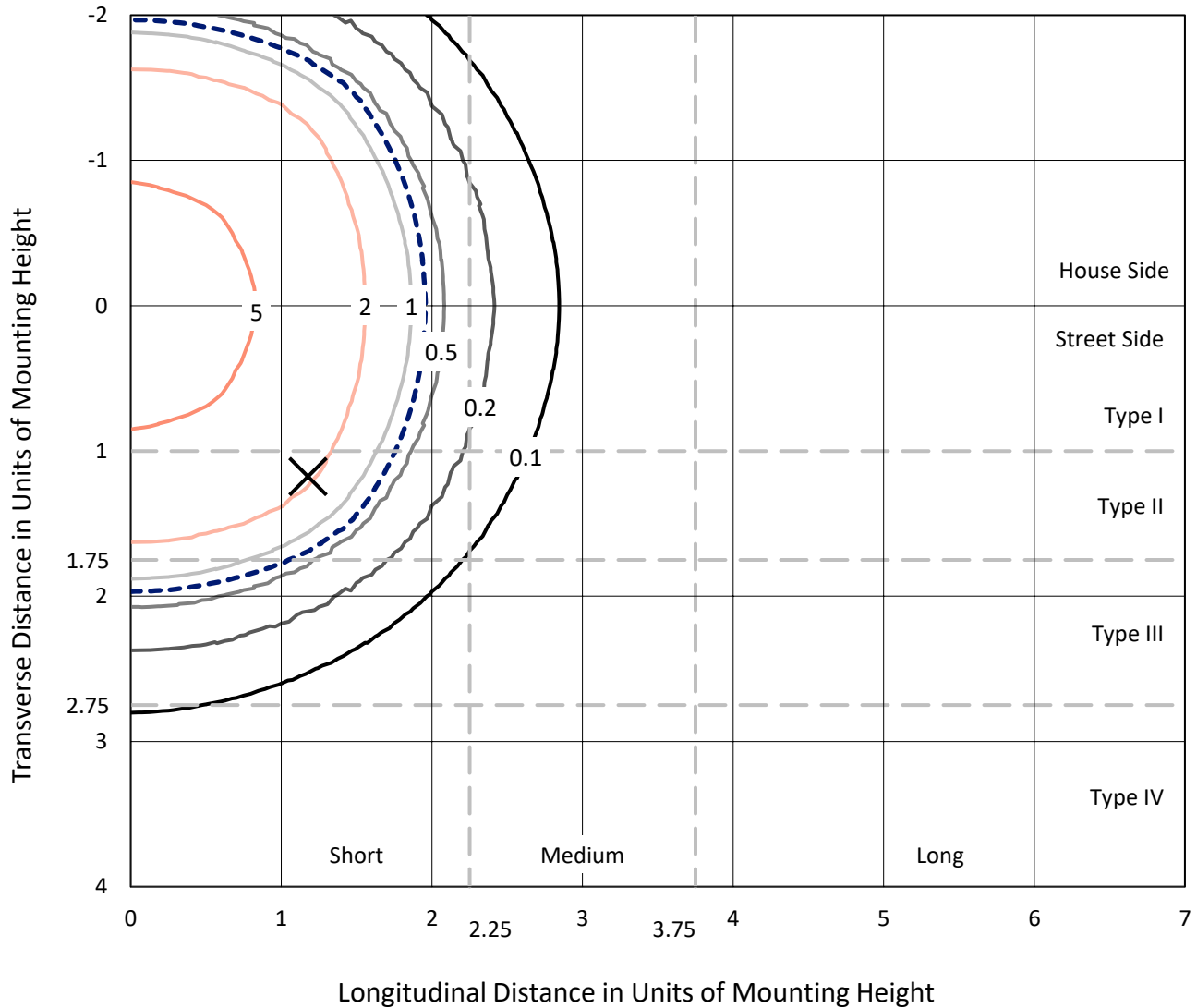
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531788
 CATALOG NUMBER: GALN-SA7A-760-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

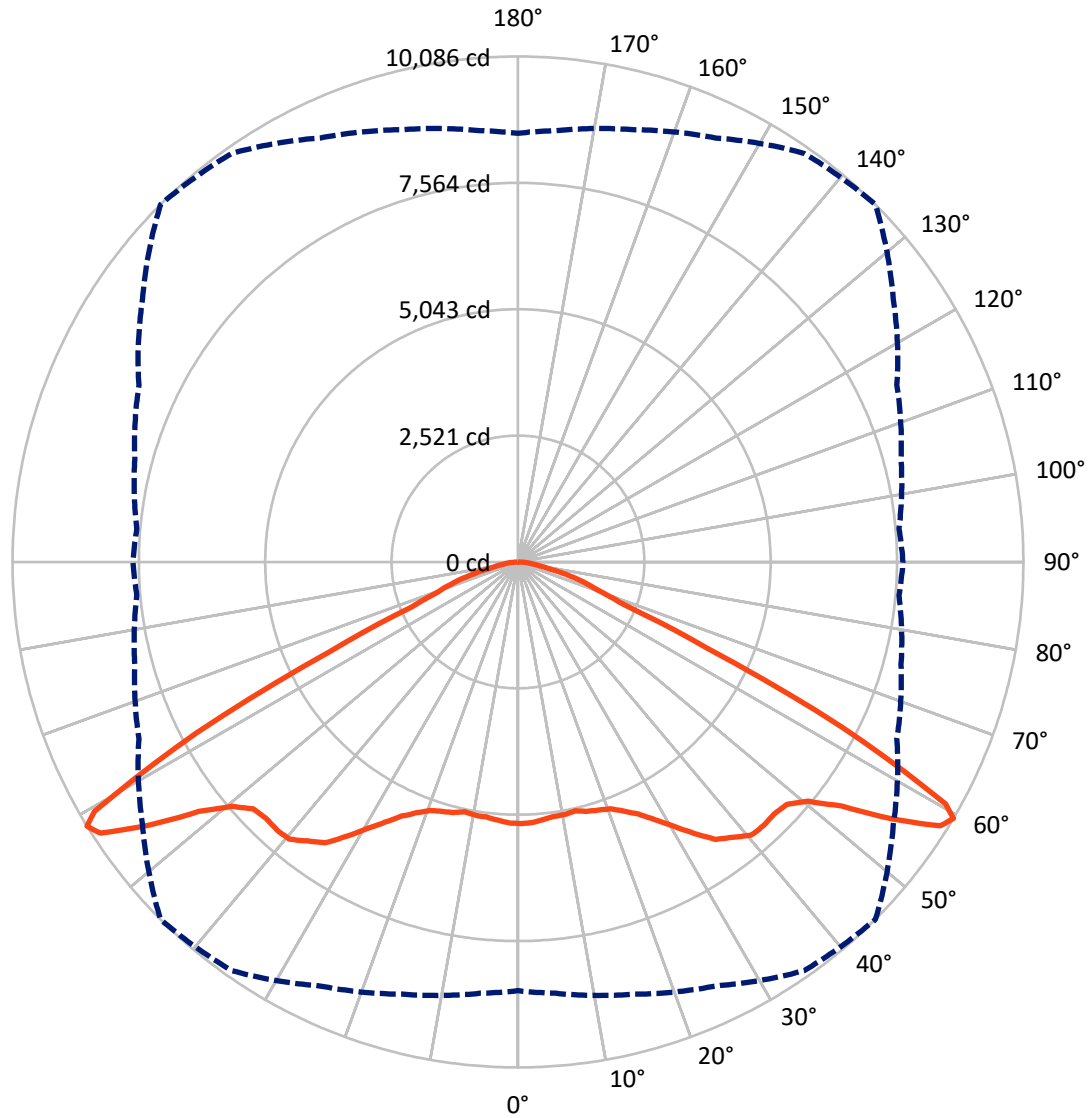
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P531788
CATALOG NUMBER: GALN-SA7A-760-U-5WQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

REPORT NUMBER: P531788
 CATALOG NUMBER: GALN-SA7A-760-U-5WQ-GRSWH

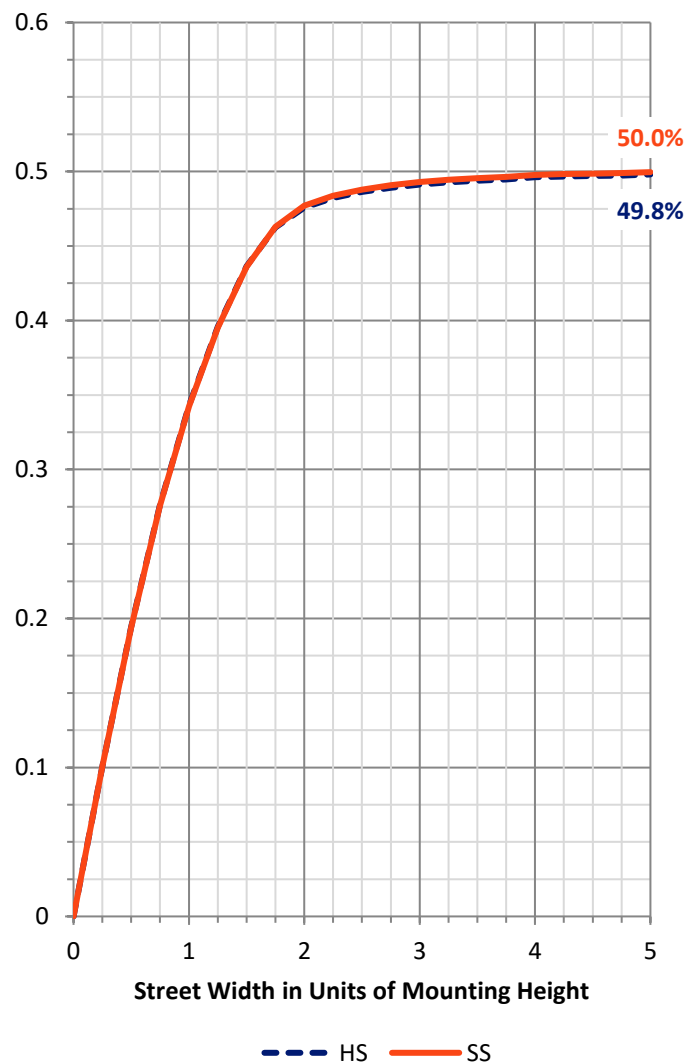
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13511.5 | 0.0 | 13511.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13511.5 | 0.0 | 13511.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27023.0 | 0.0 | 27023.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 492.0 | 1.8 |
| 10°-20° | 1463.2 | 5.4 |
| 20°-30° | 2555.0 | 9.5 |
| 30°-40° | 4080.6 | 15.1 |
| 40°-50° | 5558.7 | 20.6 |
| 50°-60° | 7516.8 | 27.8 |
| 60°-70° | 4122.2 | 15.3 |
| 70°-80° | 1054.6 | 3.9 |
| 80°-90° | 179.9 | 0.7 |
| 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° | 27023.0 | 100.0 |
| 0°-180° | 27023.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P531788

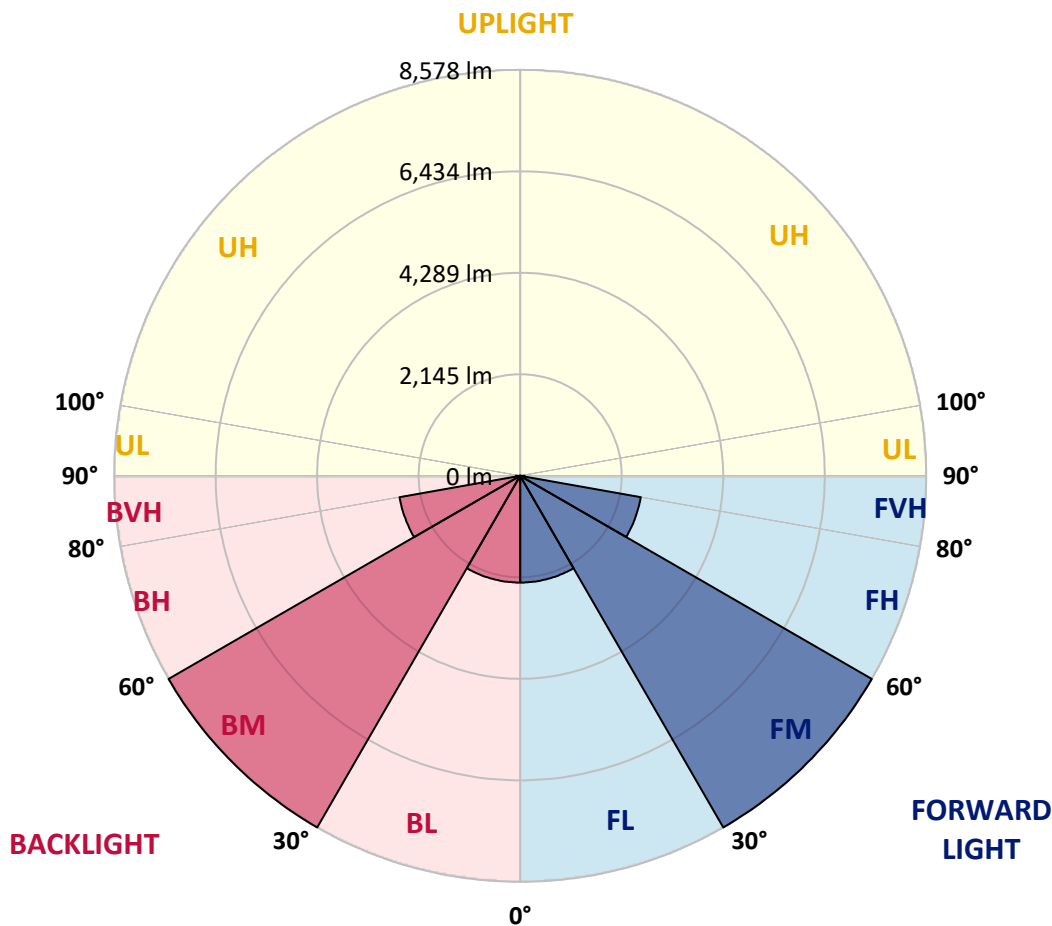
CATALOG NUMBER: GALN-SA7A-760-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2255.1 | 8.3 | | | |
| FM (30°-60°) | 8578.0 | 31.7 | | | |
| FH (60°-80°) | 2588.4 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 89.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2255.1 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 8578.0 | 31.7 | B5 | | |
| BH (60°-80°) | 2588.4 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 89.9 | 0.3 | | | 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





REPORT NUMBER: P531788

CATALOG NUMBER: GALN-SA7A-760-U-5WQ-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 5219.6 | 5219.6 | 5219.6 | 5219.6 | 5219.6 | 5219.6 | 5219.6 | 5219.6 | 5219.6 | 5219.6 | 5219.6 |
| 2.5° | 5188.4 | 5226.5 | 5198.8 | 5223.0 | 5219.6 | 5209.2 | 5191.8 | 5181.5 | 5167.6 | 5188.4 | 5153.7 |
| 5° | 5167.6 | 5198.8 | 5229.9 | 5188.4 | 5188.4 | 5167.6 | 5157.2 | 5136.4 | 5136.4 | 5133.0 | 5129.5 |
| 7.5° | 5202.2 | 5171.1 | 5157.2 | 5164.1 | 5171.1 | 5126.0 | 5157.2 | 5115.6 | 5081.0 | 5105.3 | 5133.0 |
| 10° | 5171.1 | 5184.9 | 5133.0 | 5157.2 | 5119.1 | 5126.0 | 5105.3 | 5133.0 | 5094.9 | 5094.9 | 5094.9 |
| 12.5° | 5202.2 | 5164.1 | 5181.5 | 5164.1 | 5153.7 | 5094.9 | 5122.6 | 5091.4 | 5087.9 | 5122.6 | 5091.4 |
| 15° | 5264.6 | 5202.2 | 5188.4 | 5153.7 | 5164.1 | 5164.1 | 5136.4 | 5139.9 | 5101.8 | 5122.6 | 5129.5 |
| 17.5° | 5243.8 | 5209.2 | 5198.8 | 5157.2 | 5191.8 | 5202.2 | 5150.3 | 5115.6 | 5139.9 | 5136.4 | 5133.0 |
| 20° | 5261.1 | 5275.0 | 5264.6 | 5271.5 | 5285.4 | 5257.7 | 5209.2 | 5160.7 | 5129.5 | 5174.5 | 5171.1 |
| 22.5° | 5371.9 | 5358.1 | 5351.2 | 5344.2 | 5368.5 | 5396.2 | 5330.4 | 5254.2 | 5254.2 | 5285.4 | 5299.2 |
| 25° | 5462.0 | 5458.5 | 5455.1 | 5486.2 | 5569.4 | 5569.4 | 5486.2 | 5389.3 | 5365.0 | 5385.8 | 5368.5 |
| 27.5° | 5593.6 | 5631.7 | 5617.9 | 5673.3 | 5794.5 | 5822.2 | 5711.4 | 5597.1 | 5531.3 | 5507.0 | 5538.2 |
| 30° | 5894.9 | 5849.9 | 5860.3 | 5919.2 | 6026.6 | 6116.6 | 5946.9 | 5825.7 | 5735.6 | 5732.2 | 5746.0 |
| 32.5° | 6095.8 | 6130.5 | 6161.6 | 6217.1 | 6386.8 | 6456.0 | 6251.7 | 6054.3 | 5998.8 | 5967.7 | 5978.1 |
| 35° | 6497.6 | 6466.4 | 6459.5 | 6514.9 | 6684.6 | 6798.9 | 6542.6 | 6369.4 | 6296.7 | 6366.0 | 6366.0 |
| 37.5° | 6878.6 | 6792.0 | 6726.2 | 6798.9 | 6954.8 | 6968.6 | 6750.4 | 6656.9 | 6618.8 | 6698.5 | 6695.0 |
| 40° | 7058.7 | 7051.8 | 6899.4 | 6940.9 | 7148.7 | 7169.5 | 6965.2 | 6854.3 | 6847.4 | 6951.3 | 7055.2 |
| 42.5° | 7245.7 | 7179.9 | 7027.5 | 7055.2 | 7183.4 | 7190.3 | 6996.3 | 6965.2 | 7041.4 | 7141.8 | 7148.7 |
| 45° | 7276.9 | 7221.5 | 7124.5 | 7055.2 | 7148.7 | 7169.5 | 7055.2 | 7076.0 | 7082.9 | 7204.2 | 7204.2 |
| 47.5° | 7339.2 | 7332.3 | 7276.9 | 7224.9 | 7242.3 | 7224.9 | 7152.2 | 7183.4 | 7287.3 | 7346.2 | 7318.5 |
| 50° | 7512.4 | 7439.7 | 7495.1 | 7450.1 | 7453.5 | 7502.0 | 7436.2 | 7467.4 | 7446.6 | 7394.7 | 7360.0 |
| 52.5° | 7893.4 | 7858.8 | 7907.3 | 7938.4 | 7973.1 | 8083.9 | 8007.7 | 7841.4 | 7685.6 | 7547.0 | 7543.6 |
| 55° | 8451.0 | 8475.3 | 8568.8 | 8728.1 | 8863.2 | 9039.8 | 8672.7 | 8274.4 | 8025.0 | 7806.8 | 7820.7 |
| 57.5° | 8977.5 | 8960.2 | 9088.3 | 9452.0 | 9846.8 | 9936.9 | 9216.5 | 8648.5 | 8243.2 | 8104.7 | 8045.8 |
| 59° | 8554.9 | 8638.1 | 8929.0 | 9334.2 | 9954.2 | 10085.8 | 9143.7 | 8343.7 | 7914.2 | 7633.6 | 7682.1 |
| 60° | 7889.9 | 7921.1 | 8180.9 | 8745.4 | 9583.6 | 9808.7 | 8655.4 | 7872.6 | 7301.1 | 7138.4 | 7211.1 |
| 62.5° | 5576.3 | 5552.1 | 5739.1 | 6199.7 | 6951.3 | 7256.1 | 6435.3 | 5884.6 | 5524.3 | 5344.2 | 5385.8 |
| 65° | 2964.8 | 3075.6 | 3151.8 | 3439.3 | 3837.6 | 4159.7 | 3820.3 | 3581.3 | 3380.4 | 3231.5 | 3228.0 |
| 67.5° | 2001.9 | 1988.1 | 2005.4 | 2071.2 | 2206.3 | 2296.3 | 2289.4 | 2168.2 | 2150.9 | 2123.1 | 2154.3 |
| 70° | 1686.7 | 1679.8 | 1648.6 | 1648.6 | 1676.4 | 1697.1 | 1721.4 | 1735.2 | 1762.9 | 1797.6 | 1794.1 |
| 72.5° | 1368.1 | 1350.8 | 1330.0 | 1319.6 | 1354.2 | 1364.6 | 1395.8 | 1409.7 | 1433.9 | 1430.4 | 1461.6 |
| 75° | 904.0 | 904.0 | 928.2 | 955.9 | 966.3 | 987.1 | 990.6 | 1032.1 | 1032.1 | 1039.1 | 1011.4 |
| 77.5° | 505.7 | 491.8 | 509.1 | 536.8 | 561.1 | 599.2 | 637.3 | 668.5 | 685.8 | 678.9 | 678.9 |
| 80° | 294.4 | 294.4 | 311.7 | 342.9 | 374.1 | 408.7 | 436.4 | 460.7 | 478.0 | 471.0 | 457.2 |
| 82.5° | 183.6 | 183.6 | 200.9 | 232.1 | 256.3 | 277.1 | 315.2 | 346.4 | 367.1 | 360.2 | 342.9 |
| 85° | 93.5 | 93.5 | 114.3 | 135.1 | 166.2 | 180.1 | 176.6 | 162.8 | 159.3 | 142.0 | 142.0 |
| 87.5° | 24.2 | 24.2 | 34.6 | 38.1 | 31.2 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 | 38.1 |
| 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)