

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: P530354

Luminaire Tested: **GALN-SA5C-750-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-750-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31076 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

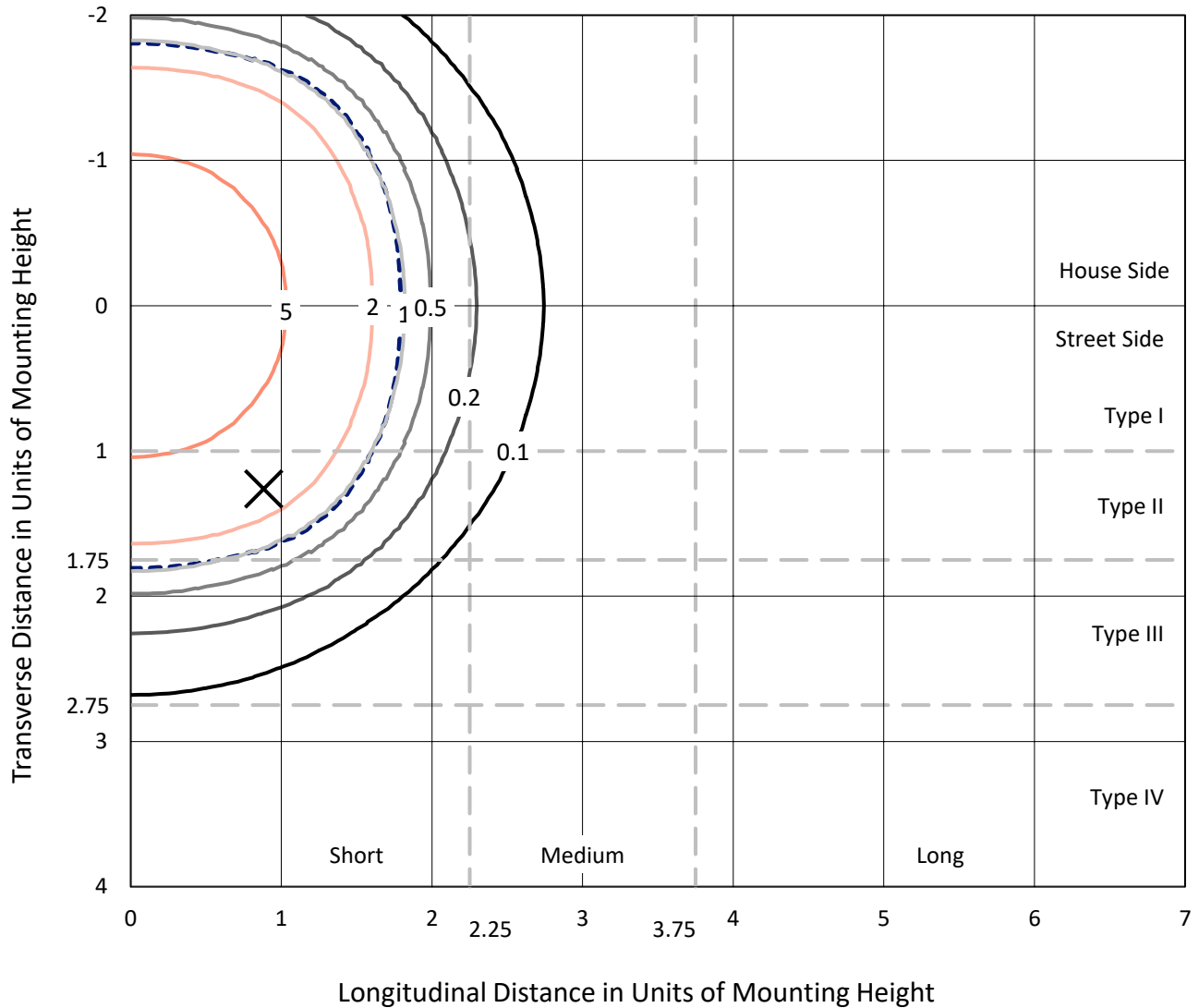
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

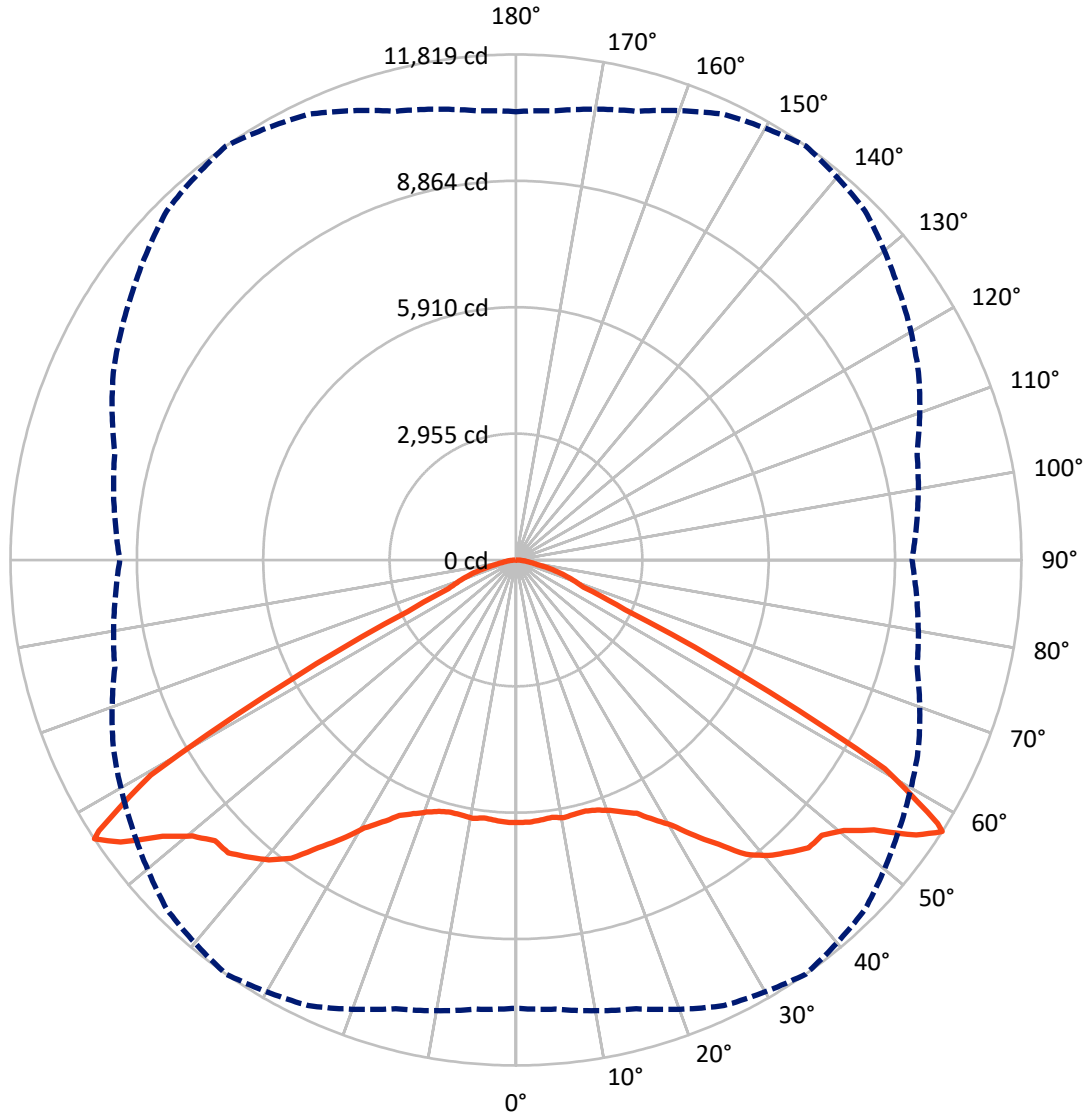
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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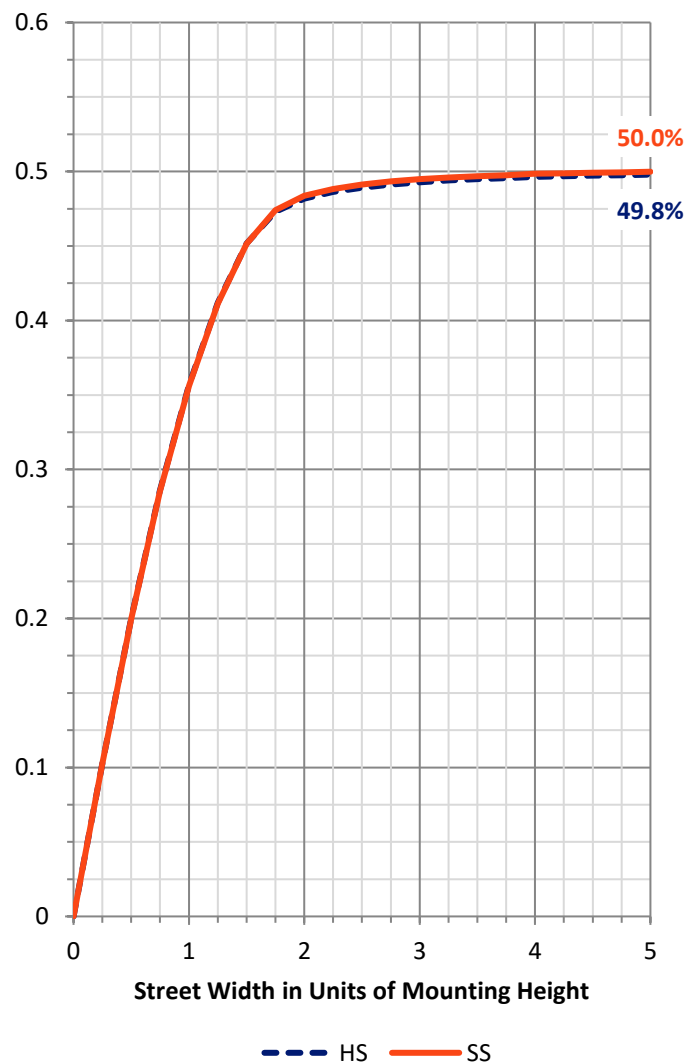
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15538.0 | 0.0 | 15538.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15538.0 | 0.0 | 15538.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 31076.0 | 0.0 | 31076.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 581.8 | 1.9 |
| 10°-20° | 1723.2 | 5.5 |
| 20°-30° | 3009.6 | 9.7 |
| 30°-40° | 4931.3 | 15.9 |
| 40°-50° | 7230.5 | 23.3 |
| 50°-60° | 9107.4 | 29.3 |
| 60°-70° | 3425.2 | 11.0 |
| 70°-80° | 910.7 | 2.9 |
| 80°-90° | 156.2 | 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° | 31076.0 | 100.0 |
| 0°-180° | 31076.0 | 100.0 |



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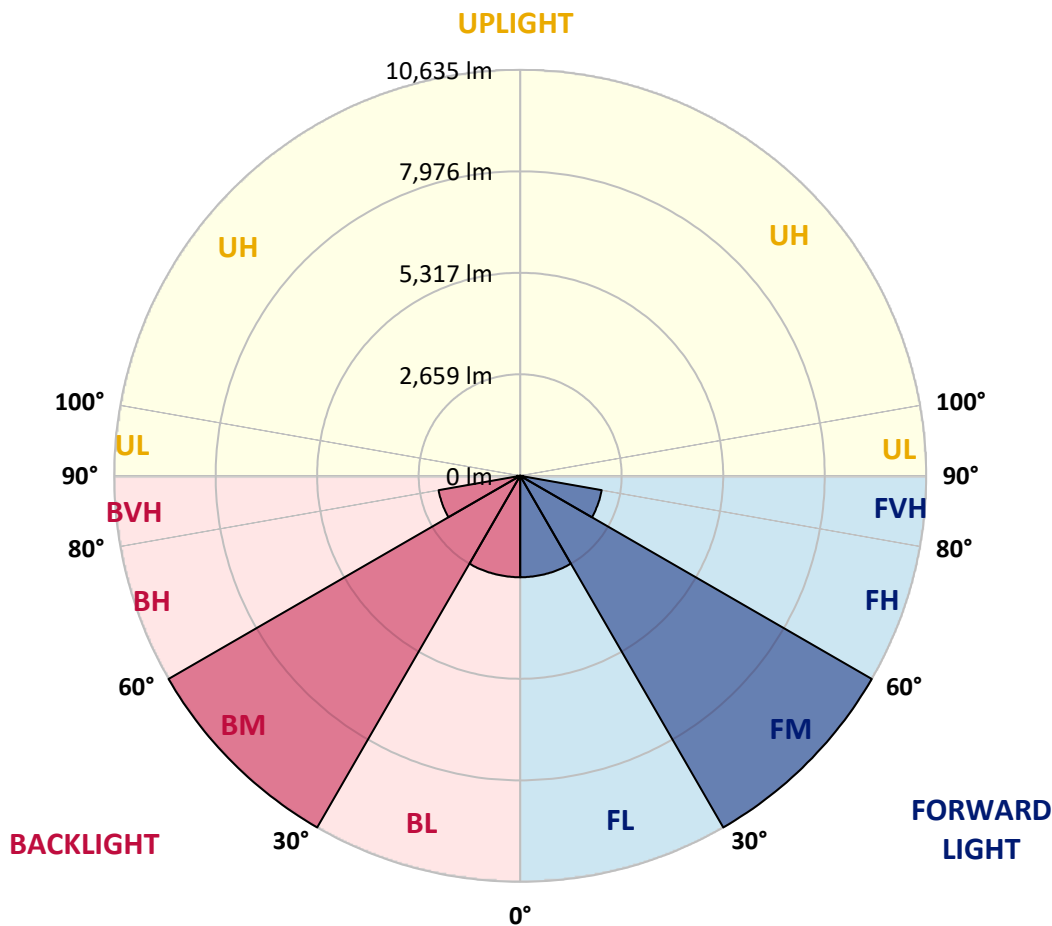
CATALOG NUMBER: GALN-SA5C-750-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2657.3 | 8.6 | | | |
| FM (30°-60°) | 10634.6 | 34.2 | | | |
| FH (60°-80°) | 2168.0 | 7.0 | | | G2/5000 |
| FVH (80°-90°) | 78.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2657.3 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 10634.6 | 34.2 | B5 | | |
| BH (60°-80°) | 2168.0 | 7.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 78.1 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 6137.3 | 6137.3 | 6137.3 | 6137.3 | 6137.3 | 6137.3 | 6137.3 | 6137.3 | 6137.3 | 6137.3 | 6137.3 |
| 2.5° | 6106.7 | 6167.9 | 6141.1 | 6125.8 | 6137.3 | 6118.1 | 6087.5 | 6122.0 | 6114.3 | 6083.7 | 6072.2 |
| 5° | 6091.3 | 6137.3 | 6106.7 | 6137.3 | 6106.7 | 6160.3 | 6144.9 | 6087.5 | 6156.4 | 6091.3 | 6114.3 |
| 7.5° | 6079.9 | 6095.2 | 6102.8 | 6087.5 | 6076.0 | 6141.1 | 6106.7 | 6079.9 | 6041.6 | 6030.1 | 6049.2 |
| 10° | 6053.1 | 6091.3 | 6033.9 | 6110.5 | 6125.8 | 6079.9 | 6079.9 | 6030.1 | 5999.5 | 5980.3 | 6045.4 |
| 12.5° | 6122.0 | 6056.9 | 6049.2 | 6087.5 | 6099.0 | 6118.1 | 6064.5 | 6037.7 | 5980.3 | 5988.0 | 5976.5 |
| 15° | 6041.6 | 6068.4 | 6072.2 | 6079.9 | 6091.3 | 6137.3 | 6087.5 | 6030.1 | 6007.1 | 5926.7 | 5934.4 |
| 17.5° | 6072.2 | 6045.4 | 6072.2 | 6160.3 | 6144.9 | 6179.4 | 6125.8 | 6037.7 | 5984.1 | 5938.2 | 5999.5 |
| 20° | 6125.8 | 6114.3 | 6125.8 | 6233.0 | 6252.1 | 6282.8 | 6236.8 | 6156.4 | 6053.1 | 5999.5 | 6030.1 |
| 22.5° | 6183.2 | 6175.6 | 6183.2 | 6286.6 | 6397.6 | 6435.9 | 6390.0 | 6202.4 | 6148.8 | 6049.2 | 6014.8 |
| 25° | 6286.6 | 6294.3 | 6374.7 | 6489.5 | 6562.3 | 6635.0 | 6550.8 | 6416.8 | 6244.5 | 6183.2 | 6110.5 |
| 27.5° | 6516.3 | 6535.5 | 6581.4 | 6749.9 | 6876.2 | 6941.3 | 6822.6 | 6638.8 | 6531.6 | 6405.3 | 6386.1 |
| 30° | 6799.6 | 6799.6 | 6880.0 | 7025.5 | 7197.8 | 7297.4 | 7151.9 | 6933.6 | 6803.5 | 6734.5 | 6692.4 |
| 32.5° | 7174.8 | 7132.7 | 7163.4 | 7419.9 | 7687.9 | 7772.1 | 7576.8 | 7308.8 | 7102.1 | 7010.2 | 6979.6 |
| 35° | 7496.4 | 7523.2 | 7592.2 | 7867.8 | 8166.5 | 8361.7 | 8055.4 | 7707.0 | 7496.4 | 7412.2 | 7396.9 |
| 37.5° | 7913.8 | 7959.7 | 7994.2 | 8373.2 | 8733.1 | 8805.8 | 8511.0 | 8231.5 | 7975.0 | 7906.1 | 7867.8 |
| 40° | 8503.4 | 8472.7 | 8484.2 | 8763.7 | 9089.1 | 9135.1 | 8844.1 | 8645.0 | 8434.5 | 8392.3 | 8392.3 |
| 42.5° | 8989.6 | 8955.1 | 8993.4 | 9096.8 | 9345.7 | 9311.2 | 9150.4 | 9004.9 | 8916.9 | 8870.9 | 8916.9 |
| 45° | 9284.4 | 9276.8 | 9345.7 | 9422.2 | 9598.4 | 9483.5 | 9357.2 | 9380.1 | 9295.9 | 9219.3 | 9215.5 |
| 47.5° | 9606.0 | 9556.2 | 9640.5 | 9755.3 | 9621.3 | 9567.7 | 9560.1 | 9609.8 | 9583.0 | 9449.0 | 9406.9 |
| 50° | 9763.0 | 9743.8 | 9877.8 | 10011.8 | 9939.1 | 9816.6 | 9843.4 | 9923.8 | 9579.2 | 9399.3 | 9295.9 |
| 52.5° | 10184.1 | 10188.0 | 10444.5 | 10517.2 | 10486.6 | 10306.7 | 10364.1 | 10145.8 | 9740.0 | 9487.3 | 9498.8 |
| 55° | 10846.5 | 10819.7 | 11106.8 | 11321.2 | 11355.7 | 11126.0 | 10850.3 | 10544.0 | 10034.8 | 9778.3 | 9701.7 |
| 57° | 10482.8 | 10544.0 | 10861.8 | 11497.4 | 11819.0 | 11547.1 | 10946.0 | 10387.1 | 9709.4 | 9399.3 | 9261.4 |
| 57.5° | 9996.5 | 10096.1 | 10647.4 | 11286.8 | 11623.7 | 11600.7 | 10827.3 | 10096.1 | 9491.2 | 9008.7 | 9020.2 |
| 60° | 7324.2 | 7343.3 | 7841.0 | 8855.6 | 9908.5 | 9931.4 | 8989.6 | 8021.0 | 7347.1 | 6822.6 | 6895.3 |
| 62.5° | 3863.1 | 3951.1 | 4150.2 | 4965.7 | 5876.9 | 6099.0 | 5528.5 | 5030.8 | 4448.9 | 4050.7 | 4089.0 |
| 65° | 2044.5 | 2033.0 | 2128.7 | 2358.4 | 2806.4 | 2921.2 | 2844.7 | 2450.3 | 2247.4 | 2182.3 | 2186.1 |
| 67.5° | 1661.6 | 1680.8 | 1669.3 | 1680.8 | 1711.4 | 1761.2 | 1749.7 | 1765.0 | 1776.5 | 1795.6 | 1791.8 |
| 70° | 1408.9 | 1408.9 | 1416.6 | 1420.4 | 1420.4 | 1443.4 | 1470.2 | 1520.0 | 1523.8 | 1542.9 | 1550.6 |
| 72.5° | 1110.3 | 1102.6 | 1114.1 | 1140.9 | 1144.8 | 1163.9 | 1202.2 | 1232.8 | 1244.3 | 1244.3 | 1221.3 |
| 75° | 754.2 | 761.9 | 777.2 | 800.2 | 823.2 | 857.6 | 888.2 | 907.4 | 915.0 | 903.6 | 892.1 |
| 77.5° | 425.0 | 432.6 | 444.1 | 478.6 | 505.4 | 536.0 | 570.5 | 589.6 | 608.8 | 612.6 | 589.6 |
| 80° | 252.7 | 252.7 | 271.8 | 298.6 | 329.3 | 359.9 | 390.5 | 413.5 | 421.1 | 421.1 | 409.7 |
| 82.5° | 153.1 | 157.0 | 172.3 | 199.1 | 225.9 | 245.0 | 271.8 | 291.0 | 306.3 | 302.5 | 294.8 |
| 85° | 80.4 | 80.4 | 95.7 | 118.7 | 137.8 | 157.0 | 157.0 | 145.5 | 137.8 | 118.7 | 111.0 |
| 87.5° | 26.8 | 23.0 | 30.6 | 30.6 | 26.8 | 30.6 | 30.6 | 34.5 | 34.5 | 34.5 | 34.5 |
| 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)