

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: P529654

Luminaire Tested: **GALN-SA4D-750-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529654
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: McGRAW-EDISON
Catalog Number: GALN-SA4D-750-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 27565 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

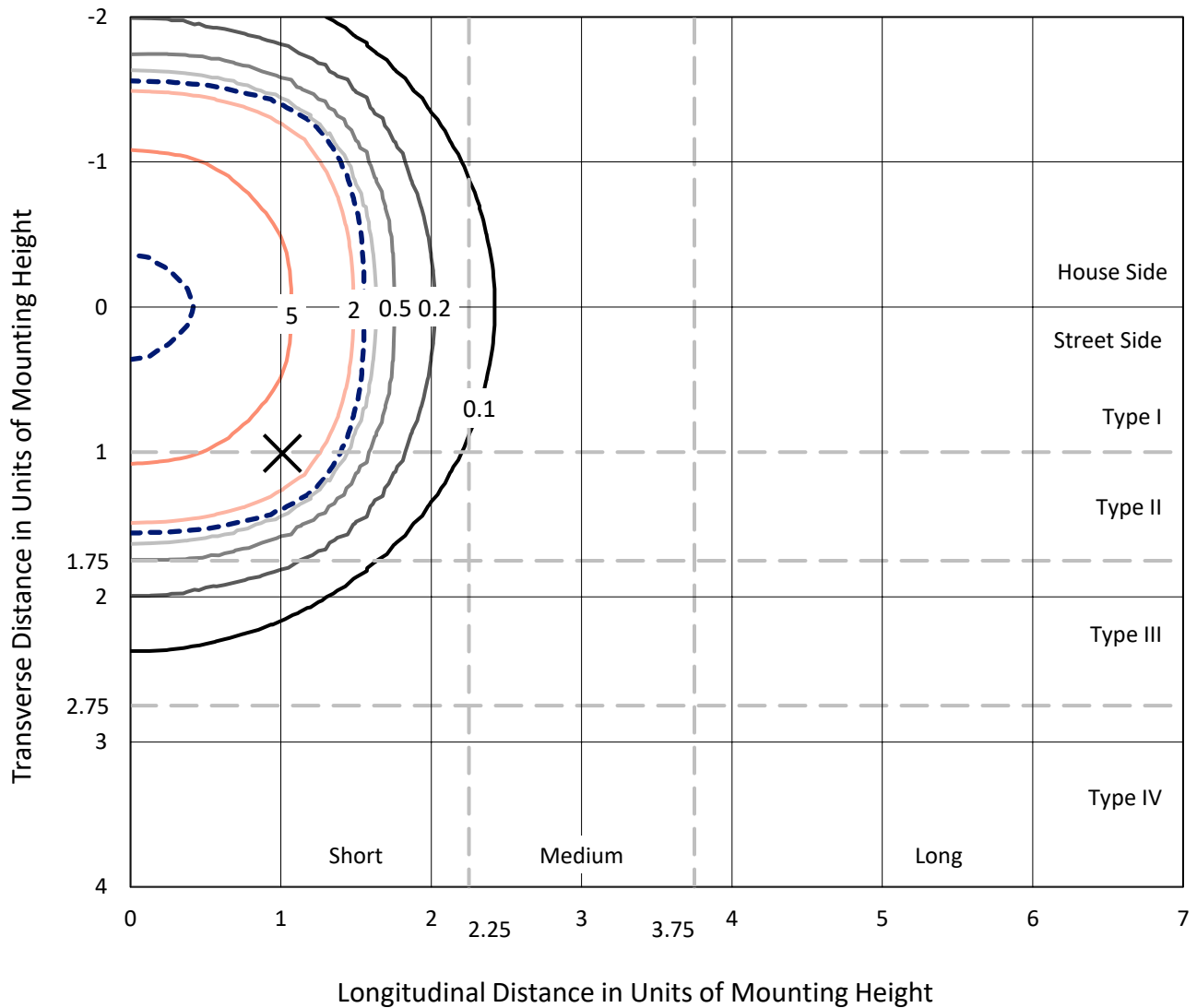
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529654
 CATALOG NUMBER: GALN-SA4D-750-U-5NQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

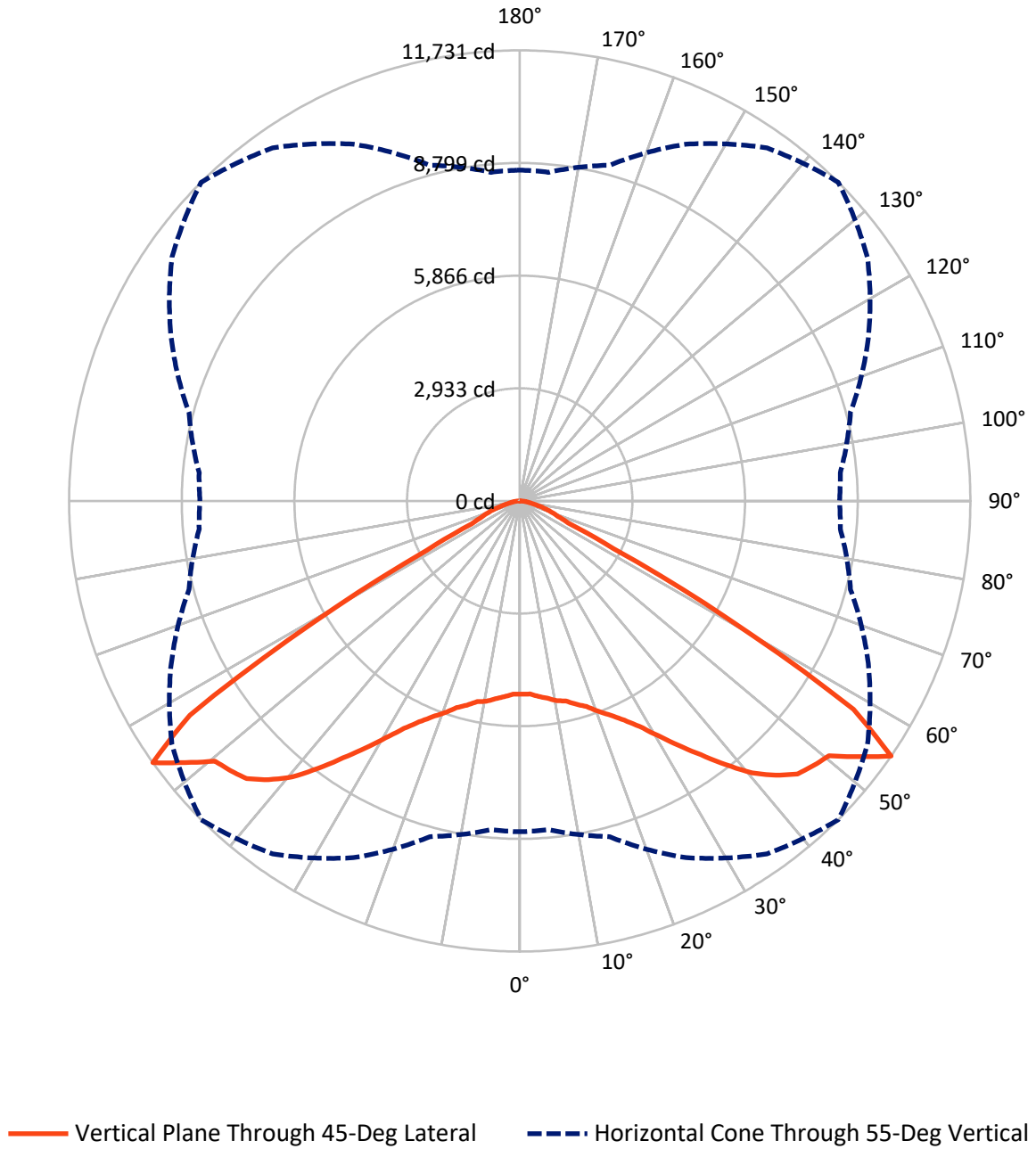
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

REPORT NUMBER: P529654
CATALOG NUMBER: GALN-SA4D-750-U-5NQ-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P529654
 CATALOG NUMBER: GALN-SA4D-750-U-5NQ-GRSWH

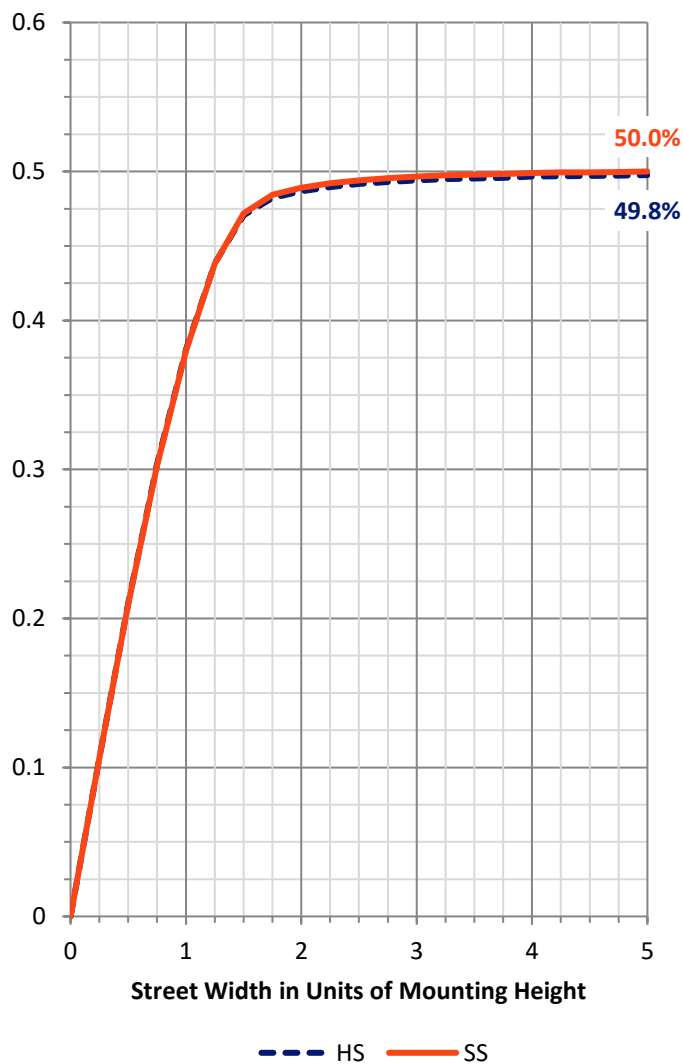
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13782.5 | 0.0 | 13782.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13782.5 | 0.0 | 13782.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27565.0 | 0.0 | 27565.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 491.7 | 1.8 |
| 10°-20° | 1557.9 | 5.7 |
| 20°-30° | 2904.9 | 10.5 |
| 30°-40° | 4863.8 | 17.6 |
| 40°-50° | 7568.4 | 27.5 |
| 50°-60° | 7858.4 | 28.5 |
| 60°-70° | 1666.5 | 6.0 |
| 70°-80° | 548.8 | 2.0 |
| 80°-90° | 104.5 | 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° | 27565.0 | 100.0 |
| 0°-180° | 27565.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P529654

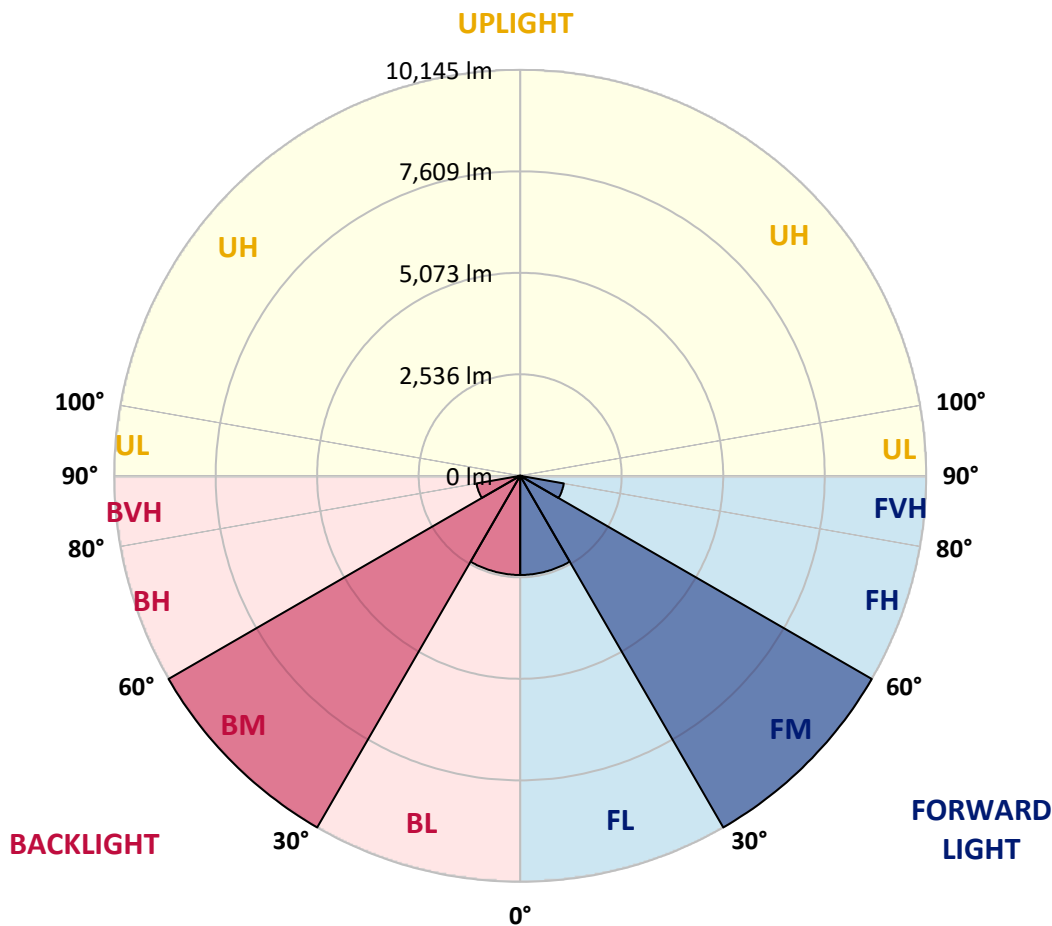
CATALOG NUMBER: GALN-SA4D-750-U-5NQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2477.2 | 9.0 | | | |
| FM (30°-60°) | 10145.3 | 36.8 | | | |
| FH (60°-80°) | 1107.7 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 52.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2477.2 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 10145.3 | 36.8 | B5 | | |
| BH (60°-80°) | 1107.7 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 52.3 | 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





REPORT NUMBER: P529654

CATALOG NUMBER: GALN-SA4D-750-U-5NQ-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5033.0 | 5033.0 | 5033.0 | 5033.0 | 5033.0 | 5033.0 | 5033.0 | 5033.0 | 5033.0 | 5033.0 | 5033.0 |
| 2.5° | 5092.9 | 5069.6 | 5029.6 | 5059.6 | 5082.9 | 5033.0 | 5052.9 | 5062.9 | 5056.3 | 5029.6 | 5039.6 |
| 5° | 5166.2 | 5152.9 | 5119.6 | 5142.9 | 5112.9 | 5112.9 | 5092.9 | 5066.3 | 5106.2 | 5099.6 | 5116.2 |
| 7.5° | 5166.2 | 5149.5 | 5216.2 | 5172.9 | 5186.2 | 5186.2 | 5152.9 | 5126.2 | 5146.2 | 5116.2 | 5099.6 |
| 10° | 5269.5 | 5292.8 | 5262.8 | 5272.8 | 5266.1 | 5289.4 | 5239.5 | 5222.8 | 5206.2 | 5196.2 | 5176.2 |
| 12.5° | 5392.7 | 5376.0 | 5386.0 | 5379.4 | 5402.7 | 5342.7 | 5312.8 | 5276.1 | 5306.1 | 5262.8 | 5292.8 |
| 15° | 5492.6 | 5482.6 | 5492.6 | 5519.3 | 5496.0 | 5492.6 | 5439.3 | 5402.7 | 5356.1 | 5366.0 | 5319.4 |
| 17.5° | 5629.2 | 5619.2 | 5622.5 | 5645.8 | 5642.5 | 5625.9 | 5585.9 | 5515.9 | 5499.3 | 5472.6 | 5442.7 |
| 20° | 5832.4 | 5815.7 | 5809.1 | 5819.0 | 5835.7 | 5849.0 | 5769.1 | 5742.4 | 5685.8 | 5642.5 | 5592.5 |
| 22.5° | 6005.6 | 5998.9 | 6025.6 | 5982.3 | 6018.9 | 6058.9 | 5982.3 | 5968.9 | 5829.0 | 5805.7 | 5752.4 |
| 25° | 6245.4 | 6235.4 | 6218.8 | 6282.0 | 6325.3 | 6322.0 | 6248.7 | 6175.4 | 6068.9 | 6042.2 | 6042.2 |
| 27.5° | 6498.5 | 6441.9 | 6528.5 | 6545.2 | 6621.8 | 6645.1 | 6581.8 | 6475.2 | 6375.3 | 6318.7 | 6332.0 |
| 30° | 6815.0 | 6761.7 | 6781.7 | 6901.6 | 7001.5 | 7088.1 | 6928.2 | 6771.7 | 6631.8 | 6531.9 | 6515.2 |
| 32.5° | 7131.4 | 7078.1 | 7138.1 | 7254.7 | 7454.5 | 7584.4 | 7427.9 | 7154.7 | 6991.5 | 6845.0 | 6874.9 |
| 35° | 7387.9 | 7427.9 | 7524.5 | 7701.0 | 7907.5 | 8117.4 | 7867.5 | 7657.7 | 7424.5 | 7261.3 | 7284.6 |
| 37.5° | 7800.9 | 7924.2 | 8000.8 | 8204.0 | 8497.1 | 8713.6 | 8453.8 | 8180.6 | 7930.8 | 7717.6 | 7644.4 |
| 40° | 8340.5 | 8423.8 | 8510.4 | 8750.2 | 9096.6 | 9313.1 | 9066.7 | 8710.2 | 8463.8 | 8243.9 | 8233.9 |
| 42.5° | 8933.4 | 9013.4 | 9103.3 | 9396.4 | 9602.9 | 9766.1 | 9539.6 | 9349.8 | 9076.6 | 8903.4 | 8893.4 |
| 45° | 9622.9 | 9566.3 | 9666.2 | 9859.4 | 10032.6 | 10139.2 | 9992.6 | 9899.4 | 9702.8 | 9543.0 | 9526.3 |
| 47.5° | 10082.6 | 10032.6 | 10212.5 | 10385.7 | 10412.3 | 10295.7 | 10325.7 | 10412.3 | 10205.8 | 9942.7 | 10025.9 |
| 50° | 10349.0 | 10349.0 | 10469.0 | 10628.8 | 10578.9 | 10429.0 | 10665.5 | 10672.1 | 10465.6 | 10232.5 | 10232.5 |
| 52.5° | 9886.0 | 9989.3 | 10329.1 | 10852.0 | 11018.5 | 11061.8 | 11008.6 | 10782.1 | 10242.5 | 9766.1 | 9742.8 |
| 55° | 8613.7 | 8590.3 | 9050.0 | 10249.1 | 11218.4 | 11731.4 | 11051.9 | 10009.3 | 8913.4 | 8377.2 | 8323.9 |
| 57.5° | 5602.5 | 5629.2 | 6315.3 | 7537.8 | 9286.5 | 10242.5 | 9096.6 | 7631.0 | 6315.3 | 5575.9 | 5645.8 |
| 60° | 2521.5 | 2611.4 | 3027.8 | 3940.4 | 5442.7 | 6222.1 | 5456.0 | 4140.3 | 3177.7 | 2758.0 | 2794.6 |
| 62.5° | 1448.9 | 1465.6 | 1482.2 | 1758.7 | 2318.3 | 2741.3 | 2408.2 | 1858.6 | 1638.8 | 1565.5 | 1565.5 |
| 65° | 1222.4 | 1212.4 | 1215.8 | 1239.1 | 1299.0 | 1385.6 | 1349.0 | 1299.0 | 1305.7 | 1299.0 | 1289.1 |
| 67.5° | 1039.2 | 1052.6 | 1042.6 | 1059.2 | 1062.6 | 1075.9 | 1099.2 | 1119.2 | 1122.5 | 1129.2 | 1122.5 |
| 70° | 852.7 | 856.0 | 862.7 | 876.0 | 879.4 | 889.3 | 922.7 | 939.3 | 949.3 | 949.3 | 962.6 |
| 72.5° | 652.9 | 649.5 | 656.2 | 669.5 | 686.2 | 689.5 | 719.5 | 742.8 | 756.1 | 739.5 | 742.8 |
| 75° | 429.7 | 433.0 | 443.0 | 453.0 | 476.3 | 499.6 | 509.6 | 532.9 | 536.3 | 542.9 | 526.3 |
| 77.5° | 256.5 | 263.1 | 273.1 | 293.1 | 313.1 | 333.1 | 356.4 | 373.1 | 379.7 | 373.1 | 353.1 |
| 80° | 166.5 | 166.5 | 179.9 | 196.5 | 219.8 | 236.5 | 249.8 | 263.1 | 273.1 | 263.1 | 256.5 |
| 82.5° | 103.3 | 103.3 | 119.9 | 139.9 | 156.6 | 166.5 | 186.5 | 203.2 | 213.2 | 206.5 | 196.5 |
| 85° | 53.3 | 56.6 | 69.9 | 86.6 | 99.9 | 106.6 | 103.3 | 93.3 | 83.3 | 79.9 | 73.3 |
| 87.5° | 16.7 | 16.7 | 20.0 | 20.0 | 16.7 | 16.7 | 20.0 | 16.7 | 20.0 | 20.0 | 20.0 |
| 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)