

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: P529446

Luminaire Tested: **GALN-SA4C-760-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529446
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-SA4C-760-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 25051 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

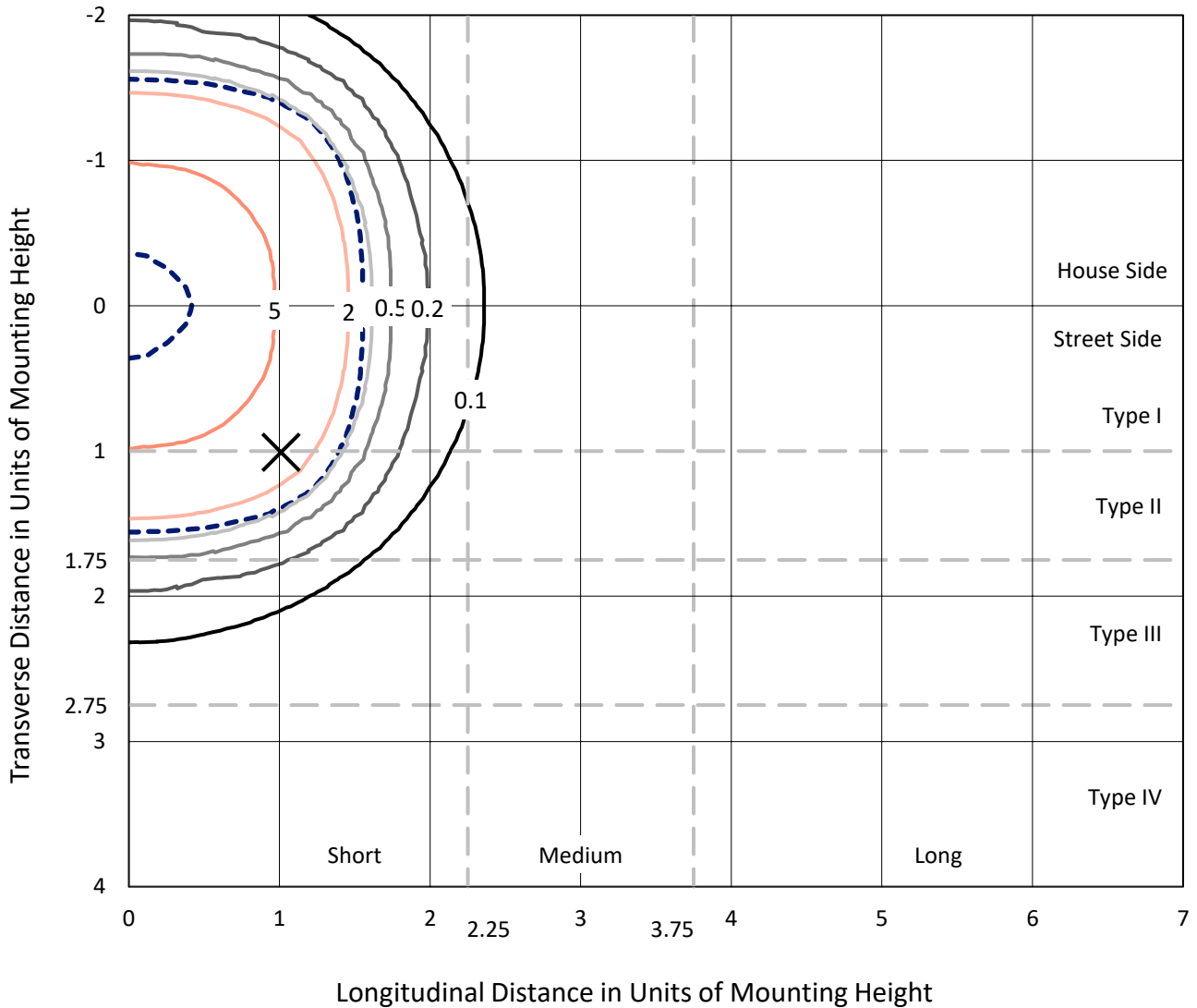
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

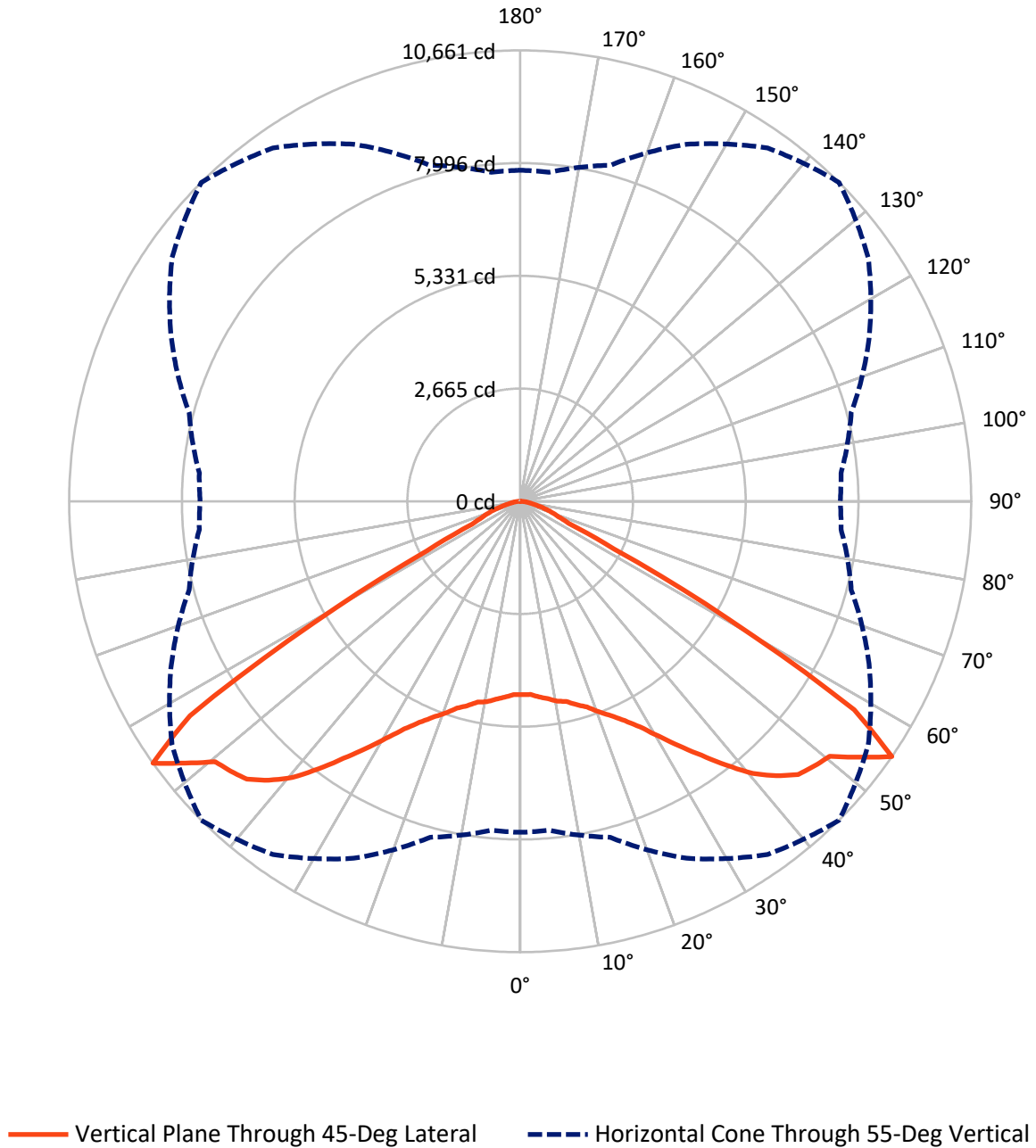
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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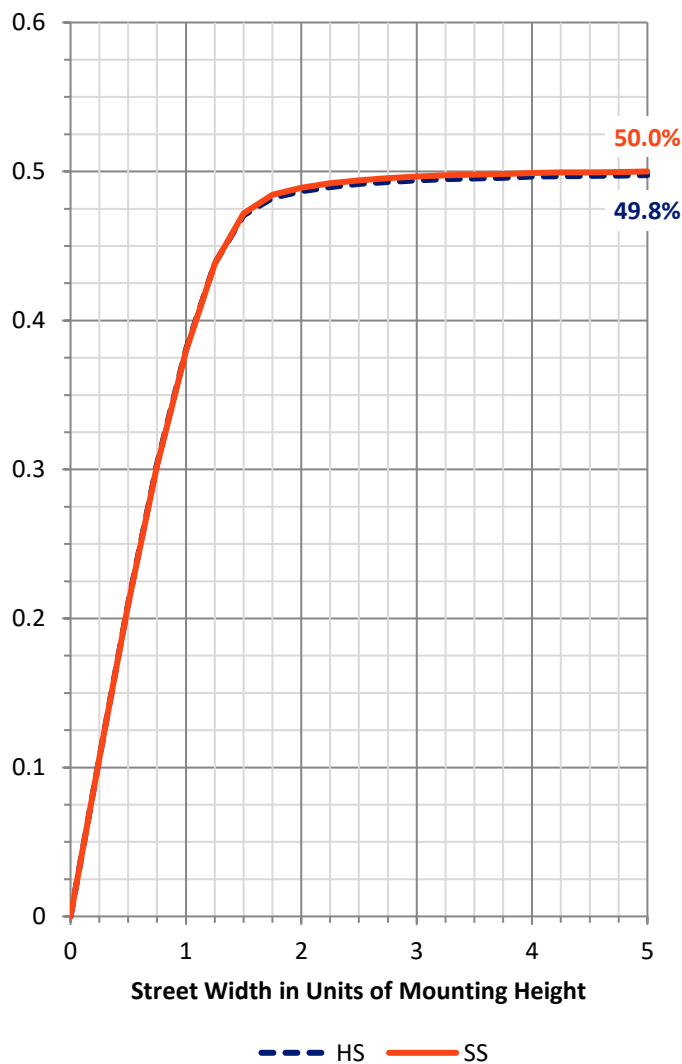
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12525.5 | 0.0 | 12525.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12525.5 | 0.0 | 12525.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25051.0 | 0.0 | 25051.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 446.8 | 1.8 |
| 10°-20° | 1415.8 | 5.7 |
| 20°-30° | 2640.0 | 10.5 |
| 30°-40° | 4420.2 | 17.6 |
| 40°-50° | 6878.2 | 27.5 |
| 50°-60° | 7141.7 | 28.5 |
| 60°-70° | 1514.5 | 6.0 |
| 70°-80° | 498.8 | 2.0 |
| 80°-90° | 95.0 | 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° | 25051.0 | 100.0 |
| 0°-180° | 25051.0 | 100.0 |

Coefficient of Utilization

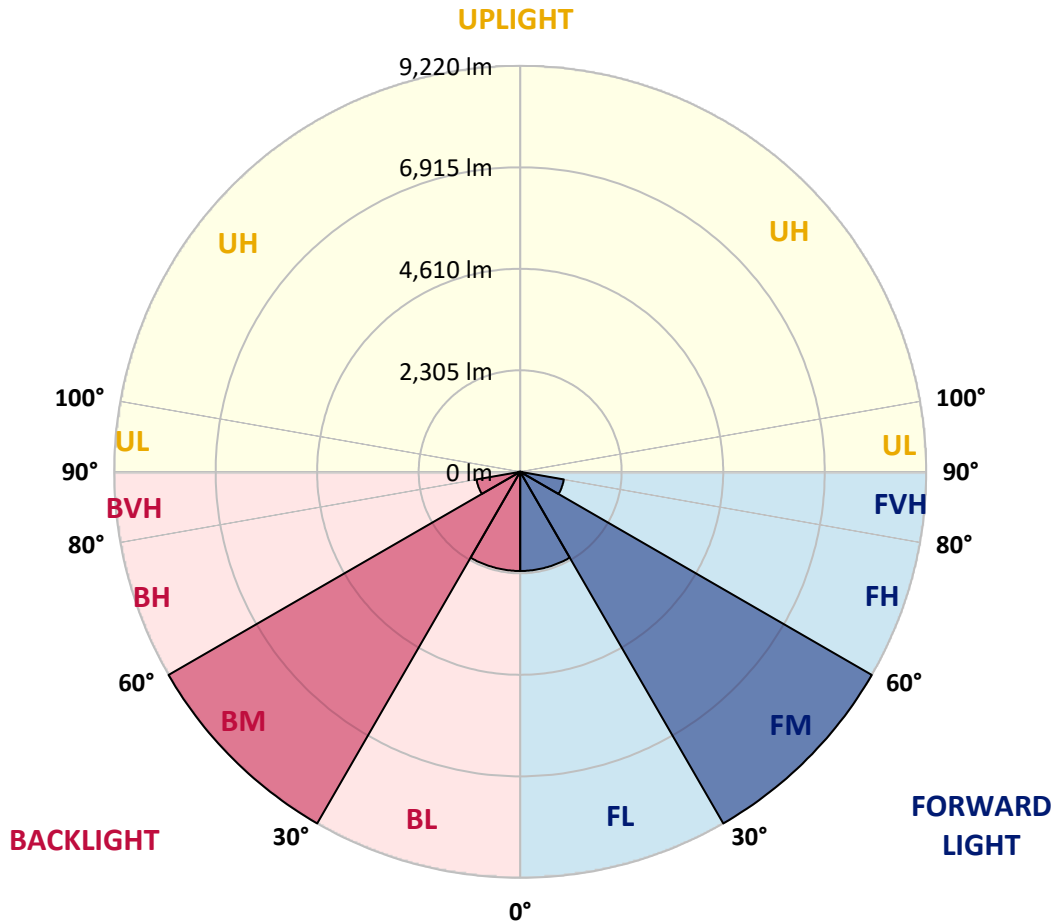


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2251.3 | 9.0 | | | |
| FM (30°-60°) | 9220.0 | 36.8 | | | |
| FH (60°-80°) | 1006.7 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 47.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2251.3 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 9220.0 | 36.8 | B5 | | |
| BH (60°-80°) | 1006.7 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 47.5 | 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° | 4573.9 | 4573.9 | 4573.9 | 4573.9 | 4573.9 | 4573.9 | 4573.9 | 4573.9 | 4573.9 | 4573.9 | 4573.9 |
| 2.5° | 4628.4 | 4607.2 | 4570.9 | 4598.2 | 4619.3 | 4573.9 | 4592.1 | 4601.2 | 4595.1 | 4570.9 | 4580.0 |
| 5° | 4695.0 | 4682.9 | 4652.6 | 4673.8 | 4646.6 | 4646.6 | 4628.4 | 4604.2 | 4640.5 | 4634.5 | 4649.6 |
| 7.5° | 4695.0 | 4679.9 | 4740.4 | 4701.1 | 4713.2 | 4713.2 | 4682.9 | 4658.7 | 4676.9 | 4649.6 | 4634.5 |
| 10° | 4788.9 | 4810.1 | 4782.8 | 4791.9 | 4785.8 | 4807.0 | 4761.6 | 4746.5 | 4731.3 | 4722.3 | 4704.1 |
| 12.5° | 4900.9 | 4885.7 | 4894.8 | 4888.8 | 4909.9 | 4855.5 | 4828.2 | 4794.9 | 4822.2 | 4782.8 | 4810.1 |
| 15° | 4991.7 | 4982.6 | 4991.7 | 5015.9 | 4994.7 | 4991.7 | 4943.2 | 4909.9 | 4867.6 | 4876.6 | 4834.3 |
| 17.5° | 5115.8 | 5106.7 | 5109.7 | 5130.9 | 5127.9 | 5112.8 | 5076.4 | 5012.9 | 4997.7 | 4973.5 | 4946.3 |
| 20° | 5300.4 | 5285.3 | 5279.3 | 5288.3 | 5303.5 | 5315.6 | 5242.9 | 5218.7 | 5167.2 | 5127.9 | 5082.5 |
| 22.5° | 5457.9 | 5451.8 | 5476.0 | 5436.7 | 5470.0 | 5506.3 | 5436.7 | 5424.6 | 5297.4 | 5276.2 | 5227.8 |
| 25° | 5675.8 | 5666.7 | 5651.6 | 5709.1 | 5748.5 | 5745.4 | 5678.8 | 5612.2 | 5515.4 | 5491.1 | 5491.1 |
| 27.5° | 5905.9 | 5854.4 | 5933.1 | 5948.2 | 6017.9 | 6039.1 | 5981.5 | 5884.7 | 5793.9 | 5742.4 | 5754.5 |
| 30° | 6193.4 | 6145.0 | 6163.2 | 6272.1 | 6363.0 | 6441.7 | 6296.4 | 6154.1 | 6026.9 | 5936.1 | 5921.0 |
| 32.5° | 6481.0 | 6432.6 | 6487.1 | 6593.0 | 6774.6 | 6892.7 | 6750.4 | 6502.2 | 6353.9 | 6220.7 | 6247.9 |
| 35° | 6714.1 | 6750.4 | 6838.2 | 6998.6 | 7186.3 | 7377.0 | 7150.0 | 6959.3 | 6747.4 | 6599.1 | 6620.3 |
| 37.5° | 7089.5 | 7201.5 | 7271.1 | 7455.7 | 7722.1 | 7918.9 | 7682.8 | 7434.5 | 7207.5 | 7013.8 | 6947.2 |
| 40° | 7579.8 | 7655.5 | 7734.2 | 7952.2 | 8267.0 | 8463.8 | 8239.7 | 7915.9 | 7691.8 | 7492.1 | 7483.0 |
| 42.5° | 8118.7 | 8191.3 | 8273.0 | 8539.4 | 8727.1 | 8875.4 | 8669.6 | 8497.1 | 8248.8 | 8091.4 | 8082.3 |
| 45° | 8745.3 | 8693.8 | 8784.6 | 8960.2 | 9117.6 | 9214.5 | 9081.3 | 8996.5 | 8817.9 | 8672.6 | 8657.5 |
| 47.5° | 9163.0 | 9117.6 | 9281.1 | 9438.5 | 9462.7 | 9356.7 | 9384.0 | 9462.7 | 9275.0 | 9035.9 | 9111.6 |
| 50° | 9405.2 | 9405.2 | 9514.2 | 9659.5 | 9614.1 | 9477.8 | 9692.8 | 9698.8 | 9511.1 | 9299.2 | 9299.2 |
| 52.5° | 8984.4 | 9078.3 | 9387.0 | 9862.3 | 10013.6 | 10053.0 | 10004.5 | 9798.7 | 9308.3 | 8875.4 | 8854.2 |
| 55° | 7828.1 | 7806.9 | 8224.6 | 9314.4 | 10195.3 | 10661.4 | 10043.9 | 9096.4 | 8100.5 | 7613.1 | 7564.7 |
| 57.5° | 5091.6 | 5115.8 | 5739.4 | 6850.3 | 8439.5 | 9308.3 | 8267.0 | 6935.1 | 5739.4 | 5067.4 | 5130.9 |
| 60° | 2291.5 | 2373.2 | 2751.6 | 3581.1 | 4946.3 | 5654.6 | 4958.4 | 3762.7 | 2887.8 | 2506.4 | 2539.7 |
| 62.5° | 1316.8 | 1331.9 | 1347.1 | 1598.3 | 2106.9 | 2491.3 | 2188.6 | 1689.1 | 1489.3 | 1422.7 | 1422.7 |
| 65° | 1110.9 | 1101.9 | 1104.9 | 1126.1 | 1180.6 | 1259.3 | 1226.0 | 1180.6 | 1186.6 | 1180.6 | 1171.5 |
| 67.5° | 944.5 | 956.6 | 947.5 | 962.6 | 965.6 | 977.8 | 998.9 | 1017.1 | 1020.1 | 1026.2 | 1020.1 |
| 70° | 774.9 | 778.0 | 784.0 | 796.1 | 799.2 | 808.2 | 838.5 | 853.6 | 862.7 | 862.7 | 874.8 |
| 72.5° | 593.3 | 590.3 | 596.3 | 608.4 | 623.6 | 626.6 | 653.9 | 675.0 | 687.2 | 672.0 | 675.0 |
| 75° | 390.5 | 393.5 | 402.6 | 411.7 | 432.9 | 454.1 | 463.1 | 484.3 | 487.4 | 493.4 | 478.3 |
| 77.5° | 233.1 | 239.1 | 248.2 | 266.4 | 284.5 | 302.7 | 323.9 | 339.0 | 345.1 | 339.0 | 320.9 |
| 80° | 151.4 | 151.4 | 163.5 | 178.6 | 199.8 | 214.9 | 227.0 | 239.1 | 248.2 | 239.1 | 233.1 |
| 82.5° | 93.8 | 93.8 | 109.0 | 127.1 | 142.3 | 151.4 | 169.5 | 184.7 | 193.7 | 187.7 | 178.6 |
| 85° | 48.4 | 51.5 | 63.6 | 78.7 | 90.8 | 96.9 | 93.8 | 84.8 | 75.7 | 72.7 | 66.6 |
| 87.5° | 15.1 | 15.1 | 18.2 | 18.2 | 15.1 | 15.1 | 18.2 | 15.1 | 18.2 | 18.2 | 18.2 |
| 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)