

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: P530356

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530356
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-SA5C-750-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 31712 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

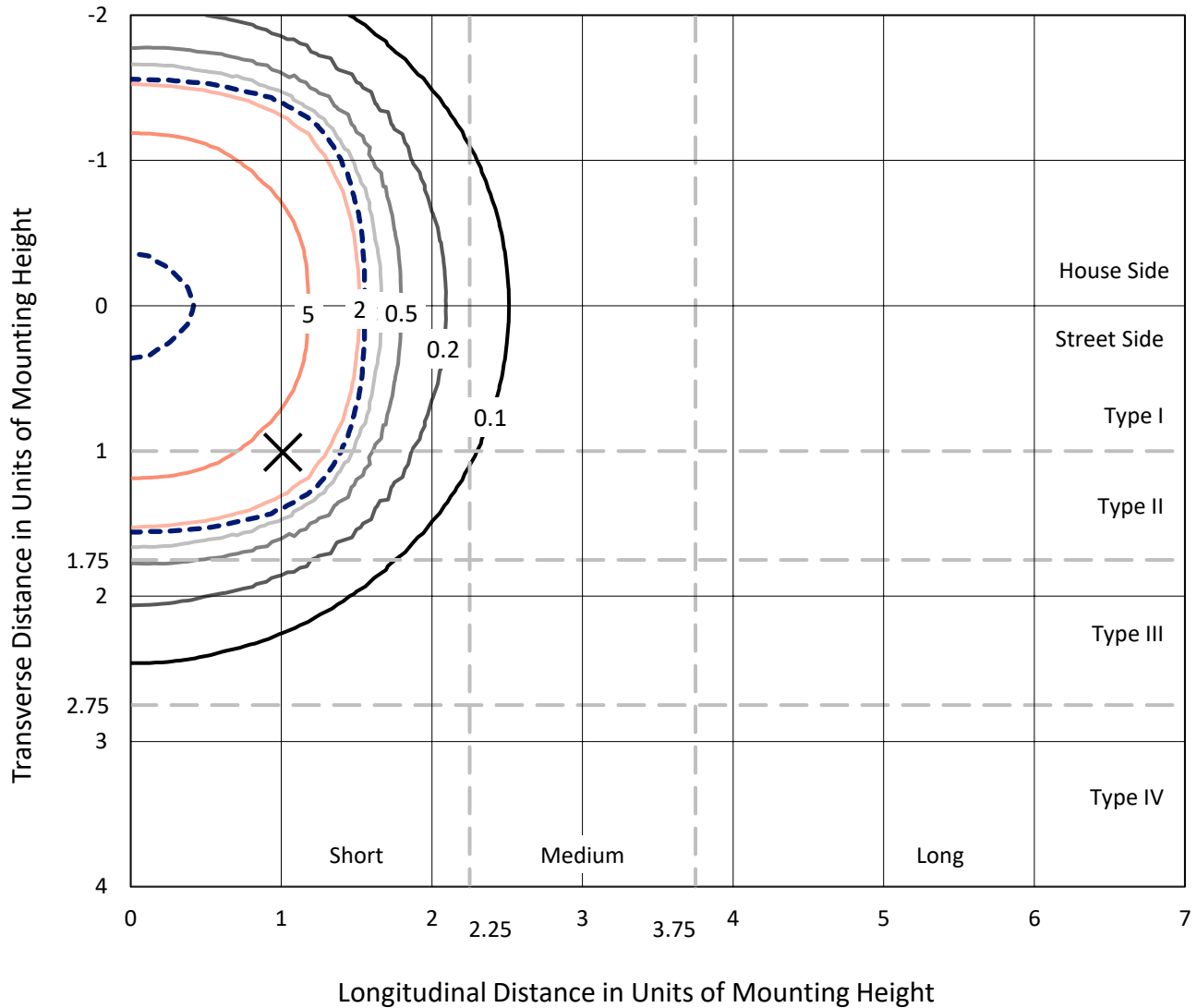
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

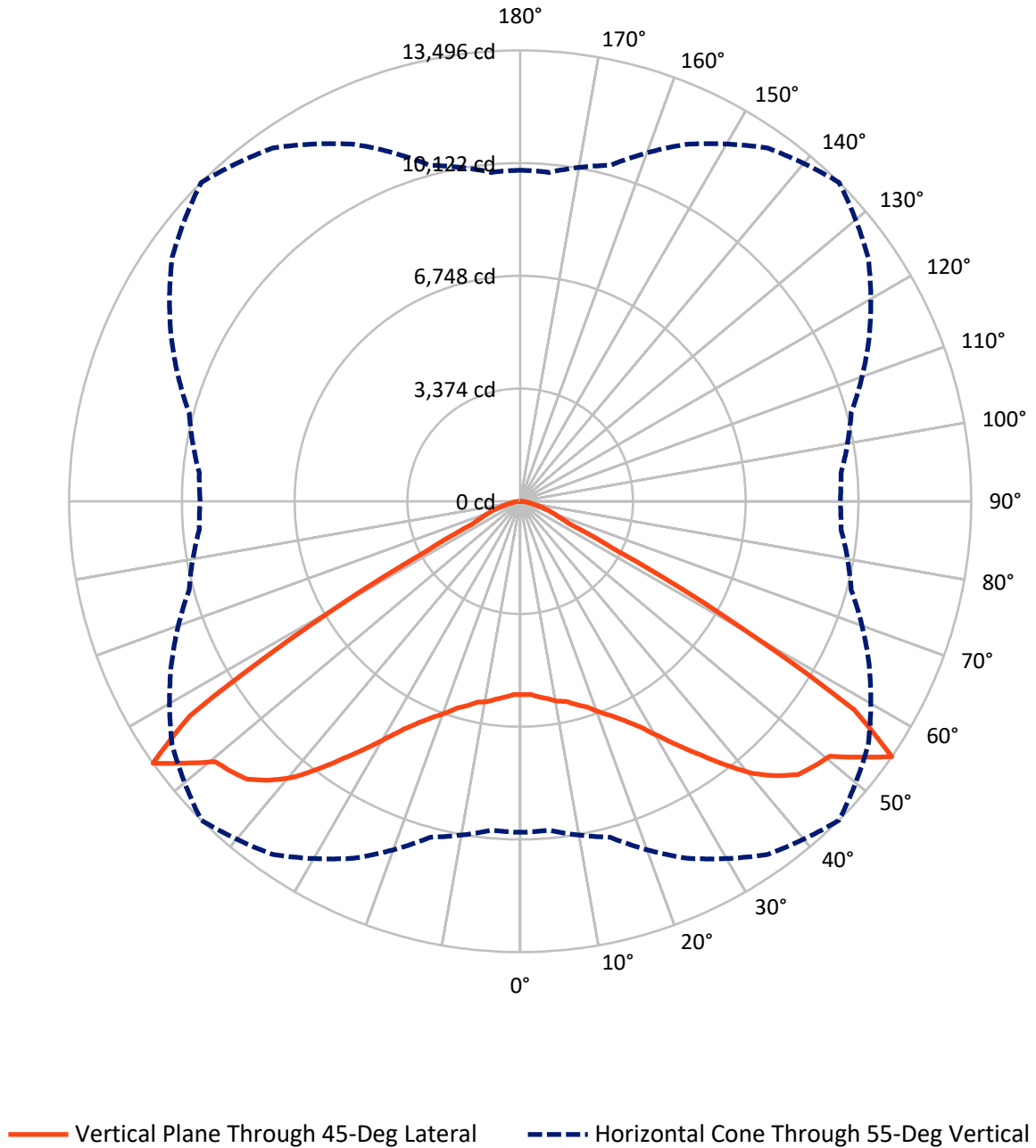
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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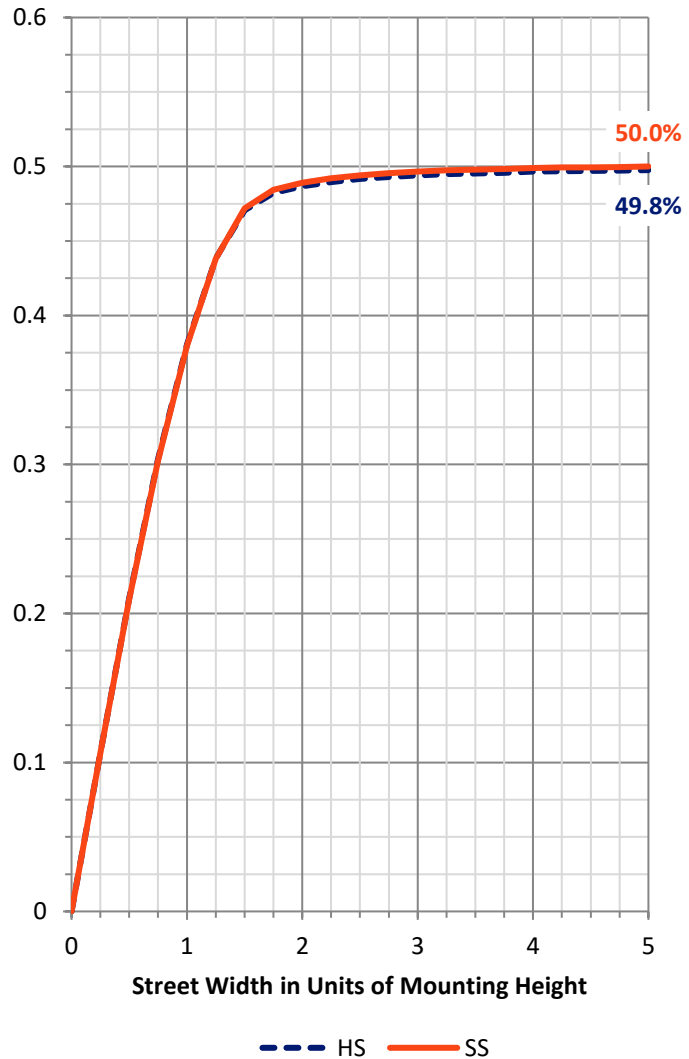
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15856.0 | 0.0 | 15856.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15856.0 | 0.0 | 15856.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 31712.0 | 0.0 | 31712.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 565.6 | 1.8 |
| 10°-20° | 1792.2 | 5.7 |
| 20°-30° | 3342.0 | 10.5 |
| 30°-40° | 5595.5 | 17.6 |
| 40°-50° | 8707.1 | 27.5 |
| 50°-60° | 9040.7 | 28.5 |
| 60°-70° | 1917.2 | 6.0 |
| 70°-80° | 631.4 | 2.0 |
| 80°-90° | 120.3 | 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° | 31712.0 | 100.0 |
| 0°-180° | 31712.0 | 100.0 |

Coefficient of Utilization

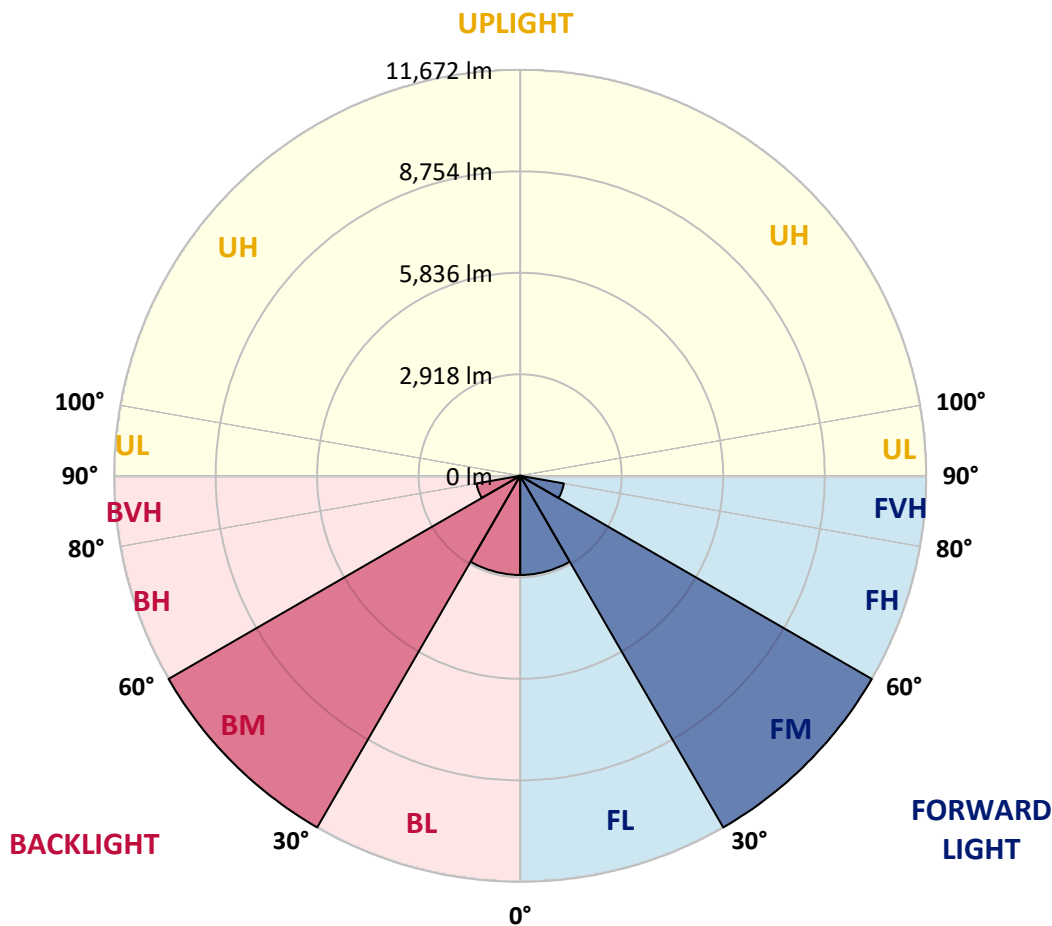


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2849.9 | 9.0 | | | |
| FM (30°-60°) | 11671.6 | 36.8 | | | |
| FH (60°-80°) | 1274.3 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 60.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2849.9 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 11671.6 | 36.8 | B5 | | |
| BH (60°-80°) | 1274.3 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 60.1 | 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° | 5790.1 | 5790.1 | 5790.1 | 5790.1 | 5790.1 | 5790.1 | 5790.1 | 5790.1 | 5790.1 | 5790.1 | 5790.1 |
| 2.5° | 5859.1 | 5832.3 | 5786.3 | 5820.8 | 5847.6 | 5790.1 | 5813.1 | 5824.6 | 5817.0 | 5786.3 | 5797.8 |
| 5° | 5943.4 | 5928.1 | 5889.8 | 5916.6 | 5882.1 | 5882.1 | 5859.1 | 5828.5 | 5874.4 | 5866.8 | 5885.9 |
| 7.5° | 5943.4 | 5924.3 | 6000.9 | 5951.1 | 5966.4 | 5966.4 | 5928.1 | 5897.4 | 5920.4 | 5885.9 | 5866.8 |
| 10° | 6062.2 | 6089.0 | 6054.5 | 6066.0 | 6058.4 | 6085.2 | 6027.7 | 6008.6 | 5989.4 | 5977.9 | 5954.9 |
| 12.5° | 6204.0 | 6184.8 | 6196.3 | 6188.7 | 6215.5 | 6146.5 | 6112.0 | 6069.9 | 6104.4 | 6054.5 | 6089.0 |
| 15° | 6319.0 | 6307.5 | 6319.0 | 6349.6 | 6322.8 | 6319.0 | 6257.6 | 6215.5 | 6161.8 | 6173.3 | 6119.7 |
| 17.5° | 6476.1 | 6464.6 | 6468.4 | 6495.2 | 6491.4 | 6472.2 | 6426.2 | 6345.8 | 6326.6 | 6296.0 | 6261.5 |
| 20° | 6709.8 | 6690.7 | 6683.0 | 6694.5 | 6713.6 | 6729.0 | 6637.0 | 6606.4 | 6541.2 | 6491.4 | 6433.9 |
| 22.5° | 6909.1 | 6901.4 | 6932.1 | 6882.3 | 6924.4 | 6970.4 | 6882.3 | 6866.9 | 6706.0 | 6679.2 | 6617.8 |
| 25° | 7185.0 | 7173.5 | 7154.3 | 7227.1 | 7277.0 | 7273.1 | 7188.8 | 7104.5 | 6981.9 | 6951.2 | 6951.2 |
| 27.5° | 7476.2 | 7411.1 | 7510.7 | 7529.9 | 7618.0 | 7644.8 | 7572.0 | 7449.4 | 7334.4 | 7269.3 | 7284.6 |
| 30° | 7840.3 | 7778.9 | 7801.9 | 7939.9 | 8054.8 | 8154.5 | 7970.5 | 7790.4 | 7629.5 | 7514.5 | 7495.4 |
| 32.5° | 8204.3 | 8143.0 | 8212.0 | 8346.1 | 8576.0 | 8725.4 | 8545.3 | 8231.1 | 8043.3 | 7874.7 | 7909.2 |
| 35° | 8499.4 | 8545.3 | 8656.5 | 8859.6 | 9097.1 | 9338.6 | 9051.2 | 8809.7 | 8541.5 | 8353.7 | 8380.6 |
| 37.5° | 8974.5 | 9116.3 | 9204.4 | 9438.2 | 9775.4 | 10024.5 | 9725.6 | 9411.4 | 9124.0 | 8878.7 | 8794.4 |
| 40° | 9595.3 | 9691.1 | 9790.7 | 10066.6 | 10465.2 | 10714.2 | 10430.7 | 10020.7 | 9737.1 | 9484.2 | 9472.7 |
| 42.5° | 10277.4 | 10369.4 | 10472.8 | 10810.0 | 11047.6 | 11235.4 | 10974.8 | 10756.4 | 10442.2 | 10242.9 | 10231.4 |
| 45° | 11070.6 | 11005.5 | 11120.4 | 11342.7 | 11542.0 | 11664.6 | 11496.0 | 11388.7 | 11162.6 | 10978.7 | 10959.5 |
| 47.5° | 11599.4 | 11542.0 | 11748.9 | 11948.1 | 11978.8 | 11844.7 | 11879.2 | 11978.8 | 11741.2 | 11438.5 | 11534.3 |
| 50° | 11906.0 | 11906.0 | 12043.9 | 12227.9 | 12170.4 | 11998.0 | 12270.0 | 12277.7 | 12040.1 | 11771.9 | 11771.9 |
| 52.5° | 11373.3 | 11492.1 | 11883.0 | 12484.6 | 12676.2 | 12726.0 | 12664.7 | 12404.2 | 11783.4 | 11235.4 | 11208.6 |
| 55° | 9909.5 | 9882.7 | 10411.5 | 11791.0 | 12906.1 | 13496.3 | 12714.5 | 11515.1 | 10254.4 | 9637.5 | 9576.1 |
| 57.5° | 6445.4 | 6476.1 | 7265.5 | 8671.8 | 10683.6 | 11783.4 | 10465.2 | 8779.1 | 7265.5 | 6414.8 | 6495.2 |
| 60° | 2900.8 | 3004.3 | 3483.3 | 4533.2 | 6261.5 | 7158.2 | 6276.8 | 4763.2 | 3655.7 | 3172.9 | 3215.0 |
| 62.5° | 1666.9 | 1686.1 | 1705.2 | 2023.3 | 2667.1 | 3153.7 | 2770.5 | 2138.3 | 1885.3 | 1801.0 | 1801.0 |
| 65° | 1406.3 | 1394.8 | 1398.7 | 1425.5 | 1494.5 | 1594.1 | 1552.0 | 1494.5 | 1502.1 | 1494.5 | 1483.0 |
| 67.5° | 1195.6 | 1210.9 | 1199.4 | 1218.6 | 1222.4 | 1237.7 | 1264.6 | 1287.5 | 1291.4 | 1299.0 | 1291.4 |
| 70° | 981.0 | 984.8 | 992.5 | 1007.8 | 1011.6 | 1023.1 | 1061.5 | 1080.6 | 1092.1 | 1092.1 | 1107.4 |
| 72.5° | 751.1 | 747.2 | 754.9 | 770.2 | 789.4 | 793.2 | 827.7 | 854.5 | 869.9 | 850.7 | 854.5 |
| 75° | 494.3 | 498.2 | 509.7 | 521.2 | 548.0 | 574.8 | 586.3 | 613.1 | 617.0 | 624.6 | 605.5 |
| 77.5° | 295.1 | 302.7 | 314.2 | 337.2 | 360.2 | 383.2 | 410.0 | 429.2 | 436.8 | 429.2 | 406.2 |
| 80° | 191.6 | 191.6 | 206.9 | 226.1 | 252.9 | 272.1 | 287.4 | 302.7 | 314.2 | 302.7 | 295.1 |
| 82.5° | 118.8 | 118.8 | 138.0 | 160.9 | 180.1 | 191.6 | 214.6 | 233.8 | 245.2 | 237.6 | 226.1 |
| 85° | 61.3 | 65.1 | 80.5 | 99.6 | 115.0 | 122.6 | 118.8 | 107.3 | 95.8 | 92.0 | 84.3 |
| 87.5° | 19.2 | 19.2 | 23.0 | 23.0 | 19.2 | 19.2 | 23.0 | 19.2 | 23.0 | 23.0 | 23.0 |
| 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)