

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: P530365

Luminaire Tested: **GALN-SA5C-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20590 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

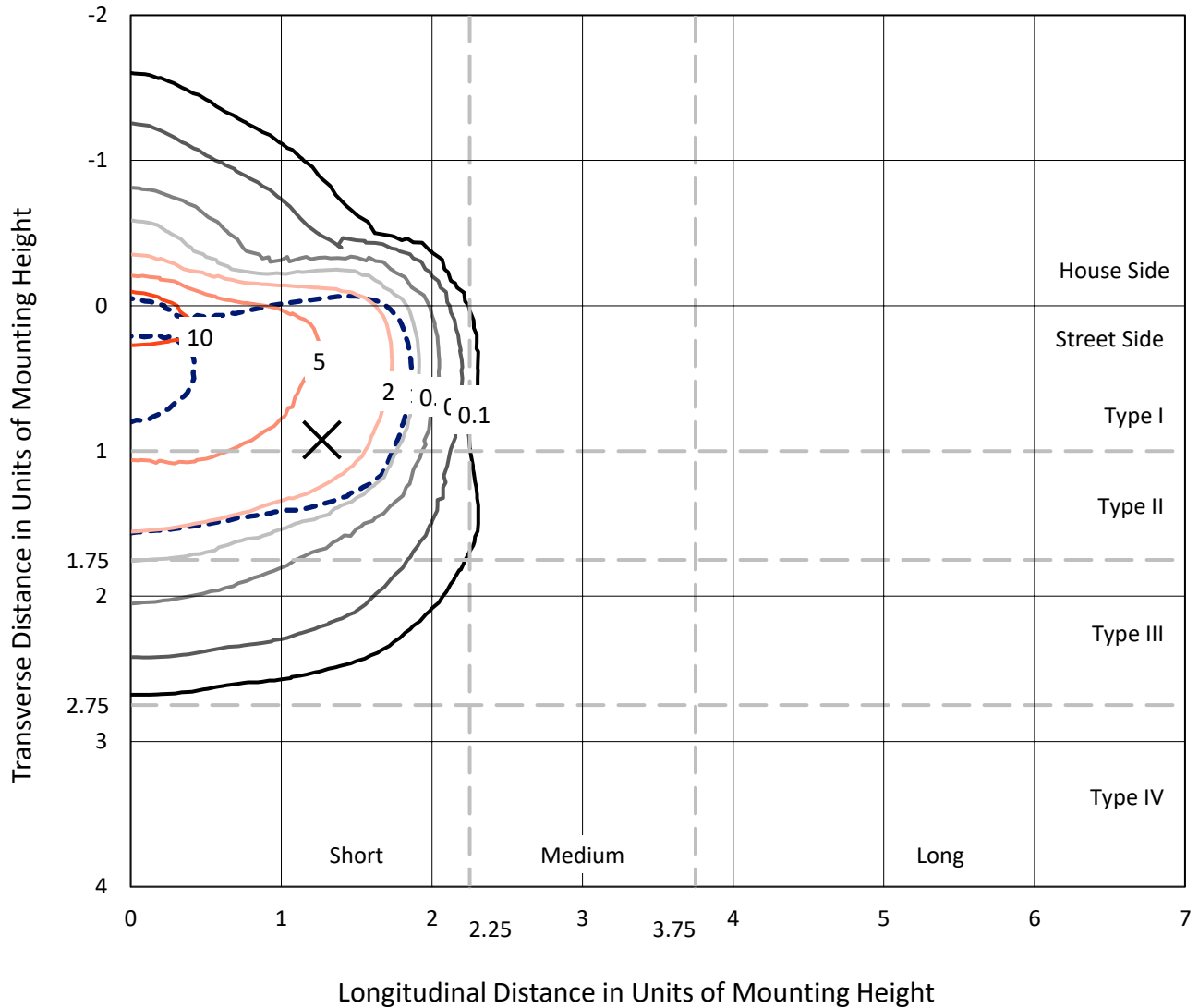
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

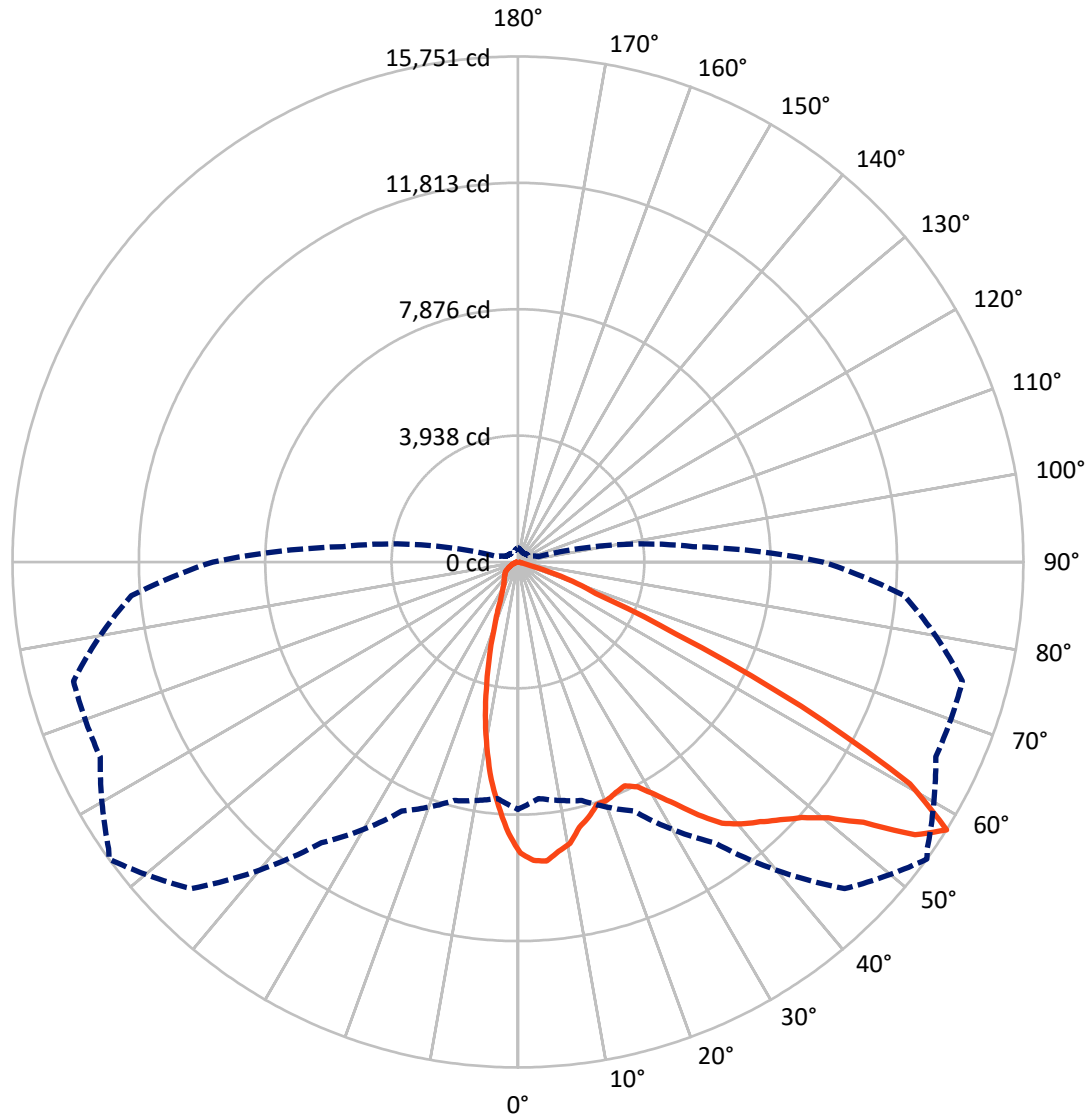
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2909.7 | 0.0 | 2909.7 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 17680.3 | 0.0 | 17680.3 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 20590.0 | 0.0 | 20590.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 759.0 | 3.7 |
| 10°-20° | 1620.5 | 7.9 |
| 20°-30° | 2147.4 | 10.4 |
| 30°-40° | 3120.8 | 15.2 |
| 40°-50° | 4627.8 | 22.5 |
| 50°-60° | 5786.9 | 28.1 |
| 60°-70° | 2282.6 | 11.1 |
| 70°-80° | 227.3 | 1.1 |
| 80°-90° | 17.7 | 0.1 |
| 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° | 20590.0 | 100.0 |
| 0°-180° | 20590.0 | 100.0 |

Coefficient of Utilization



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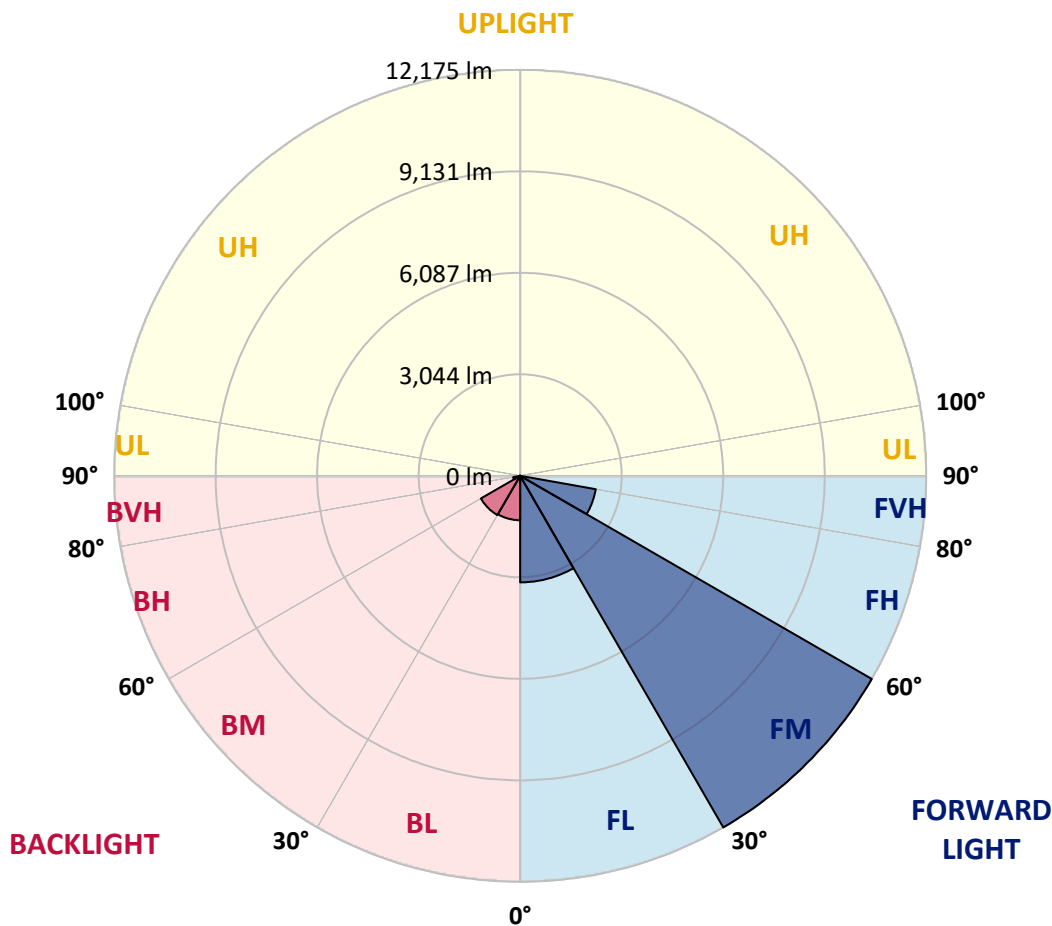
CATALOG NUMBER: GALN-SA5C-750-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3196.2 | 15.5 | | | |
| FM (30°-60°) | 12174.8 | 59.1 | | | |
| FH (60°-80°) | 2301.3 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 8.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1330.8 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 1360.7 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 208.6 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 |
| 2.5° | 9598.5 | 9499.0 | 9506.6 | 9472.2 | 9426.2 | 9460.7 | 9311.4 | 9345.8 | 9342.0 | 9139.1 | 9005.1 |
| 5° | 9357.3 | 9464.5 | 9353.5 | 9445.4 | 9357.3 | 9453.0 | 9361.2 | 9292.2 | 9181.2 | 9031.9 | 8783.0 |
| 7.5° | 8947.7 | 8844.3 | 8874.9 | 8989.8 | 9008.9 | 9223.3 | 9108.5 | 9196.5 | 9150.6 | 8855.8 | 8515.0 |
| 10° | 8124.5 | 8101.5 | 8254.7 | 8407.8 | 8595.4 | 8825.1 | 8913.2 | 8863.4 | 8829.0 | 8717.9 | 8262.3 |
| 12.5° | 7492.8 | 7557.8 | 7554.0 | 7806.7 | 8124.5 | 8254.7 | 8484.4 | 8476.7 | 8668.2 | 8461.4 | 8024.9 |
| 15° | 6891.6 | 6926.1 | 7086.9 | 7243.9 | 7596.1 | 7967.5 | 8250.8 | 8289.1 | 8518.8 | 8373.4 | 7841.2 |
| 17.5° | 6524.1 | 6474.3 | 6600.7 | 6788.3 | 7148.2 | 7634.4 | 7948.4 | 8040.3 | 8354.2 | 8323.6 | 7630.6 |
| 20° | 6160.4 | 6160.4 | 6263.7 | 6485.8 | 6815.1 | 7362.6 | 7921.6 | 7894.8 | 8354.2 | 8266.1 | 7404.7 |
| 22.5° | 6037.8 | 6099.1 | 6125.9 | 6294.4 | 6684.9 | 7155.8 | 7806.7 | 7856.5 | 8419.3 | 8239.3 | 7305.1 |
| 25° | 6206.3 | 6125.9 | 6133.6 | 6267.6 | 6635.1 | 7056.3 | 7722.5 | 7833.5 | 8538.0 | 8373.4 | 7224.7 |
| 27.5° | 6233.1 | 6313.5 | 6336.5 | 6428.4 | 6673.4 | 7086.9 | 7933.1 | 8158.9 | 8832.8 | 8687.3 | 7247.7 |
| 30° | 6466.7 | 6547.1 | 6543.2 | 6700.2 | 6868.7 | 7335.8 | 8404.0 | 8449.9 | 9441.6 | 9081.7 | 7389.4 |
| 32.5° | 6750.0 | 6834.2 | 6861.0 | 7044.8 | 7178.8 | 7791.4 | 8978.3 | 9097.0 | 10027.3 | 9701.9 | 7760.8 |
| 35° | 7102.2 | 7071.6 | 7194.1 | 7377.9 | 7665.0 | 8457.6 | 9678.9 | 9878.0 | 10659.1 | 10505.9 | 8143.6 |
| 37.5° | 7542.5 | 7504.2 | 7622.9 | 7921.6 | 8312.1 | 9246.3 | 10326.0 | 10456.2 | 11118.5 | 11252.5 | 8851.9 |
| 40° | 7852.6 | 7868.0 | 8227.9 | 8629.9 | 9043.4 | 9996.7 | 10735.7 | 10862.0 | 11440.1 | 11949.3 | 9388.0 |
| 42.5° | 8369.5 | 8465.2 | 8897.9 | 9388.0 | 9820.6 | 10559.5 | 11068.7 | 11191.3 | 11589.5 | 12508.3 | 10111.6 |
| 45° | 9119.9 | 9077.8 | 9556.4 | 10103.9 | 10582.5 | 11145.3 | 11463.1 | 11421.0 | 11677.5 | 13063.5 | 10567.2 |
| 47.5° | 10084.8 | 10092.4 | 10410.2 | 10877.3 | 11375.0 | 11654.5 | 11903.4 | 11754.1 | 11861.3 | 13649.3 | 11176.0 |
| 50° | 10743.3 | 10800.7 | 11057.3 | 11535.9 | 11784.7 | 12213.5 | 12531.3 | 12439.4 | 12405.0 | 14001.5 | 11558.8 |
| 52.5° | 10911.8 | 11084.1 | 11221.9 | 11819.2 | 12401.1 | 13078.8 | 13484.7 | 13679.9 | 13067.3 | 14120.2 | 12045.1 |
| 55° | 9640.6 | 9793.8 | 10280.0 | 11099.4 | 12634.7 | 14449.5 | 15008.5 | 15012.3 | 13932.6 | 14648.6 | 12385.8 |
| 57.5° | 7707.2 | 7397.0 | 7695.7 | 8564.8 | 10682.1 | 14392.1 | 15751.2 | 15571.3 | 14365.3 | 14338.5 | 12091.0 |
| 60° | 5329.5 | 5253.0 | 5272.1 | 5616.7 | 7393.2 | 11447.8 | 14036.0 | 14269.5 | 13228.1 | 12427.9 | 9571.7 |
| 62.5° | 4223.0 | 4158.0 | 4073.7 | 4035.4 | 4590.6 | 7132.9 | 9901.0 | 10230.3 | 9250.1 | 8059.4 | 5674.1 |
| 65° | 3308.0 | 3269.7 | 3281.2 | 3434.3 | 3430.5 | 4046.9 | 5413.8 | 5279.8 | 4226.9 | 3124.2 | 1784.2 |
| 67.5° | 2232.1 | 2289.6 | 2335.5 | 2798.8 | 3036.2 | 2817.9 | 2615.0 | 2538.4 | 1374.5 | 578.1 | 394.4 |
| 70° | 1255.8 | 1263.5 | 1313.2 | 1749.7 | 2304.9 | 2186.2 | 1803.3 | 1803.3 | 685.3 | 210.6 | 225.9 |
| 72.5° | 685.3 | 662.4 | 616.4 | 754.3 | 1026.1 | 1041.4 | 804.0 | 700.7 | 202.9 | 137.8 | 126.3 |
| 75° | 333.1 | 329.3 | 283.3 | 233.6 | 222.1 | 183.8 | 141.7 | 130.2 | 91.9 | 88.1 | 76.6 |
| 77.5° | 68.9 | 65.1 | 34.5 | 34.5 | 38.3 | 42.1 | 53.6 | 53.6 | 65.1 | 65.1 | 53.6 |
| 80° | 0.0 | 0.0 | 3.8 | 15.3 | 26.8 | 38.3 | 45.9 | 45.9 | 53.6 | 53.6 | 42.1 |
| 82.5° | 0.0 | 0.0 | 3.8 | 11.5 | 23.0 | 34.5 | 42.1 | 45.9 | 53.6 | 57.4 | 45.9 |
| 85° | 0.0 | 0.0 | 0.0 | 7.7 | 19.1 | 26.8 | 23.0 | 23.0 | 19.1 | 15.3 | 7.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 | 9070.2 |
| 2.5° | 8936.2 | 8928.5 | 8752.4 | 8652.8 | 8472.9 | 8315.9 | 8189.6 | 8097.7 | 8097.7 | 8040.3 | 7986.7 |
| 5° | 8683.5 | 8618.4 | 8243.2 | 8002.0 | 7661.2 | 7408.5 | 7236.2 | 7102.2 | 6891.6 | 6949.1 | 6723.2 |
| 7.5° | 8369.5 | 8204.9 | 7707.2 | 7339.6 | 6868.7 | 6508.8 | 6141.2 | 5815.8 | 5501.8 | 5360.2 | 5436.7 |
| 10° | 8032.6 | 7745.4 | 7075.4 | 6493.5 | 5907.7 | 5249.1 | 4820.3 | 4299.6 | 3978.0 | 3958.9 | 3874.6 |
| 12.5° | 7676.5 | 7351.1 | 6535.6 | 5731.6 | 4962.0 | 4169.4 | 3514.7 | 3028.5 | 2810.3 | 2569.1 | 2615.0 |
| 15° | 7408.5 | 6926.1 | 5934.5 | 4965.8 | 3943.6 | 3143.4 | 2484.8 | 2109.6 | 1902.9 | 1845.4 | 1826.3 |
| 17.5° | 7117.5 | 6600.7 | 5321.9 | 4150.3 | 3093.6 | 2262.8 | 1788.0 | 1608.1 | 1527.6 | 1527.6 | 1516.2 |
| 20° | 6815.1 | 6233.1 | 4713.1 | 3392.2 | 2320.2 | 1688.5 | 1431.9 | 1374.5 | 1370.7 | 1366.8 | 1366.8 |
| 22.5° | 6616.0 | 5812.0 | 4161.8 | 2695.4 | 1749.7 | 1351.5 | 1244.3 | 1221.4 | 1236.7 | 1282.6 | 1282.6 |
| 25° | 6405.4 | 5406.1 | 3553.0 | 2079.0 | 1355.4 | 1160.1 | 1098.8 | 1114.1 | 1152.4 | 1194.6 | 1179.2 |
| 27.5° | 6191.0 | 5141.9 | 2978.7 | 1631.0 | 1110.3 | 1014.6 | 991.6 | 1026.1 | 1068.2 | 1106.5 | 1095.0 |
| 30° | 6141.2 | 4858.6 | 2435.0 | 1236.7 | 953.3 | 884.4 | 899.7 | 930.4 | 972.5 | 987.8 | 1003.1 |
| 32.5° | 6217.8 | 4636.5 | 1994.7 | 1014.6 | 830.8 | 811.7 | 811.7 | 827.0 | 853.8 | 888.3 | 876.8 |
| 35° | 6436.0 | 4510.2 | 1577.4 | 880.6 | 761.9 | 742.8 | 738.9 | 754.3 | 769.6 | 781.1 | 769.6 |
| 37.5° | 6769.1 | 4410.7 | 1290.3 | 781.1 | 716.0 | 685.3 | 677.7 | 673.8 | 689.2 | 693.0 | 700.7 |
| 40° | 7194.1 | 4464.3 | 1095.0 | 719.8 | 670.0 | 635.6 | 612.6 | 612.6 | 612.6 | 624.1 | 627.9 |
| 42.5° | 7653.6 | 4537.0 | 945.7 | 685.3 | 627.9 | 585.8 | 562.8 | 555.2 | 562.8 | 578.1 | 574.3 |
| 45° | 8136.0 | 4678.7 | 850.0 | 631.7 | 589.6 | 536.0 | 505.4 | 497.7 | 516.9 | 547.5 | 543.7 |
| 47.5° | 8587.8 | 4881.6 | 777.2 | 597.3 | 551.3 | 501.6 | 463.3 | 455.6 | 490.1 | 532.2 | 536.0 |
| 50° | 9039.5 | 5233.8 | 750.4 | 570.5 | 524.5 | 467.1 | 432.6 | 425.0 | 463.3 | 516.9 | 528.4 |
| 52.5° | 9560.2 | 5612.9 | 731.3 | 536.0 | 493.9 | 440.3 | 402.0 | 394.4 | 436.5 | 505.4 | 509.2 |
| 55° | 9901.0 | 5934.5 | 716.0 | 474.8 | 436.5 | 398.2 | 367.6 | 363.7 | 409.7 | 470.9 | 486.2 |
| 57.5° | 9502.8 | 5486.5 | 662.4 | 413.5 | 371.4 | 352.2 | 325.4 | 325.4 | 363.7 | 421.2 | 432.6 |
| 60° | 7205.6 | 3610.5 | 470.9 | 333.1 | 314.0 | 302.5 | 291.0 | 291.0 | 321.6 | 363.7 | 367.6 |
| 62.5° | 4219.2 | 1945.0 | 302.5 | 268.0 | 268.0 | 256.5 | 237.4 | 237.4 | 268.0 | 291.0 | 294.8 |
| 65° | 1252.0 | 624.1 | 245.0 | 229.7 | 225.9 | 206.7 | 187.6 | 183.8 | 206.7 | 218.2 | 214.4 |
| 67.5° | 359.9 | 287.2 | 202.9 | 191.4 | 187.6 | 157.0 | 145.5 | 141.7 | 145.5 | 137.8 | 134.0 |
| 70° | 214.4 | 195.3 | 157.0 | 160.8 | 141.7 | 114.9 | 103.4 | 99.5 | 91.9 | 80.4 | 72.7 |
| 72.5° | 118.7 | 118.7 | 114.9 | 122.5 | 99.5 | 76.6 | 65.1 | 53.6 | 42.1 | 34.5 | 30.6 |
| 75° | 72.7 | 76.6 | 80.4 | 84.2 | 65.1 | 49.8 | 42.1 | 26.8 | 15.3 | 7.7 | 7.7 |
| 77.5° | 49.8 | 53.6 | 57.4 | 61.3 | 53.6 | 45.9 | 34.5 | 19.1 | 3.8 | 0.0 | 0.0 |
| 80° | 38.3 | 42.1 | 49.8 | 53.6 | 57.4 | 61.3 | 45.9 | 19.1 | 3.8 | 0.0 | 0.0 |
| 82.5° | 42.1 | 45.9 | 57.4 | 53.6 | 53.6 | 53.6 | 42.1 | 19.1 | 3.8 | 0.0 | 0.0 |
| 85° | 7.7 | 11.5 | 19.1 | 19.1 | 26.8 | 34.5 | 26.8 | 7.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)