

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: P529454

Luminaire Tested: **GALN-SA4C-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
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-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23573 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

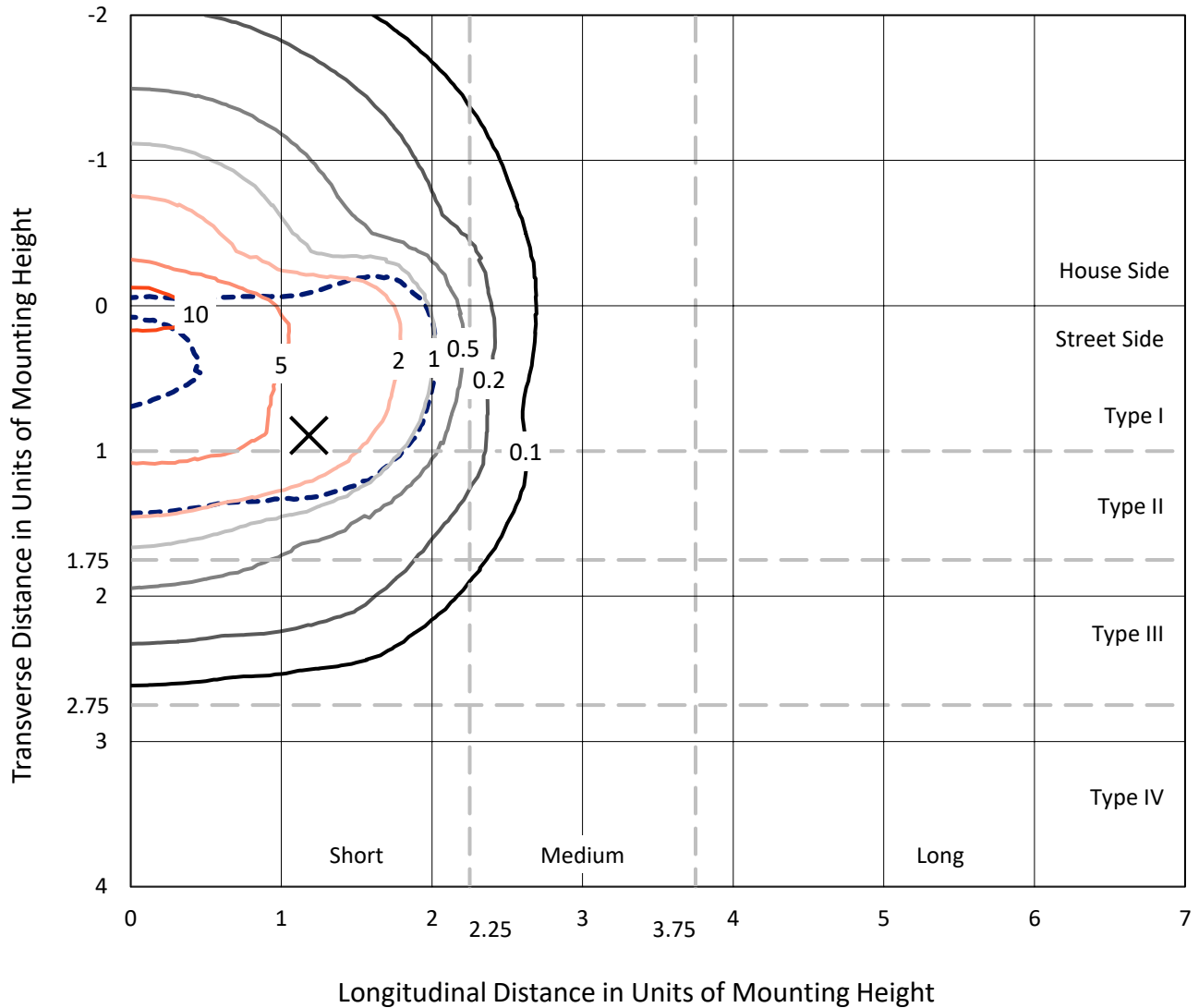
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529454
 CATALOG NUMBER: GALN-SA4C-760-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

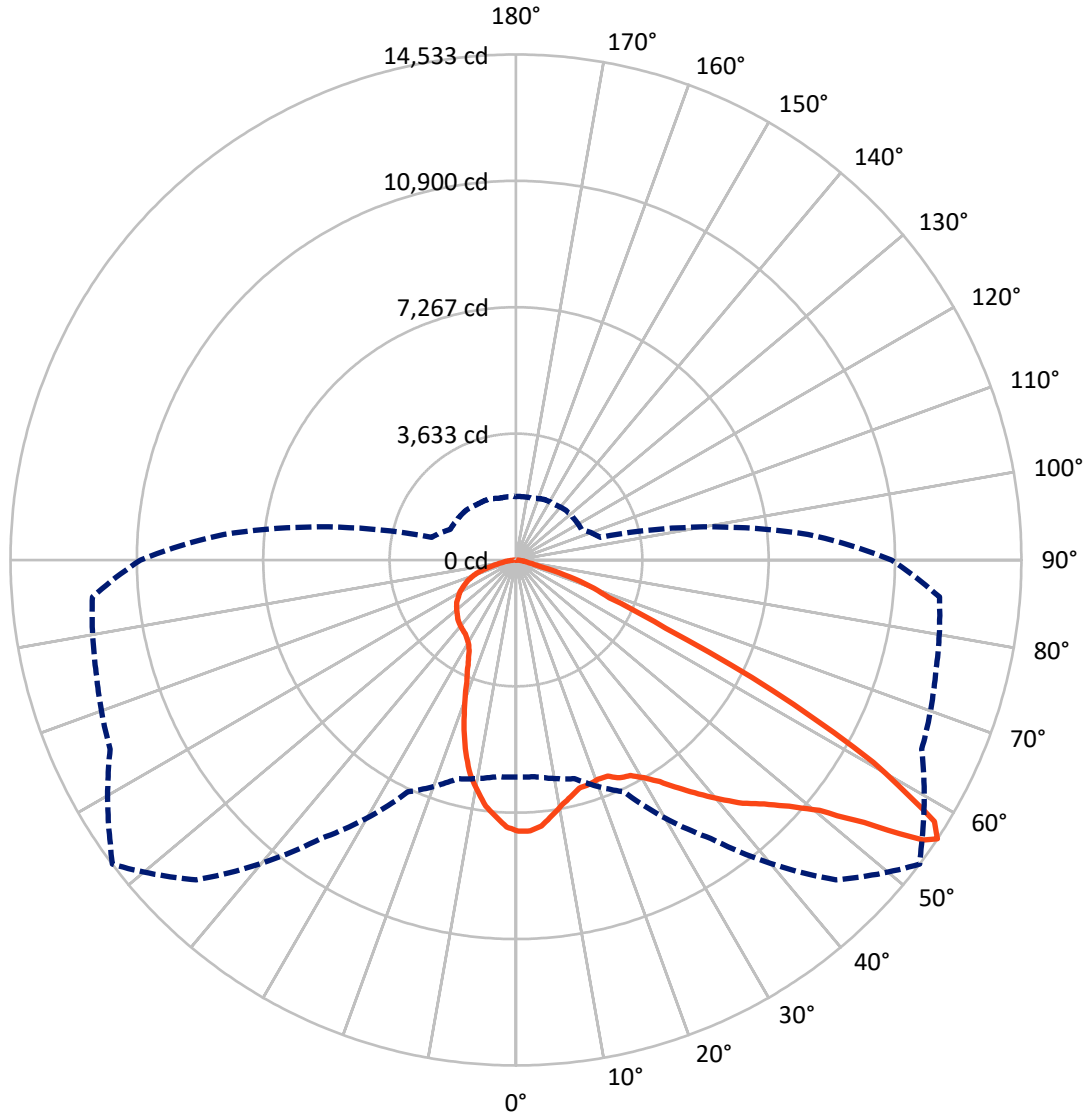
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

REPORT NUMBER: P529454
CATALOG NUMBER: GALN-SA4C-760-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529454
 CATALOG NUMBER: GALN-SA4C-760-U-SL2-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6879.1 | 0.0 | 6879.1 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 16693.9 | 0.0 | 16693.9 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 23573.0 | 0.0 | 23573.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 690.4 | 2.9 |
| 10°-20° | 1724.4 | 7.3 |
| 20°-30° | 2542.7 | 10.8 |
| 30°-40° | 3633.1 | 15.4 |
| 40°-50° | 5000.5 | 21.2 |
| 50°-60° | 5909.2 | 25.1 |
| 60°-70° | 3149.2 | 13.4 |
| 70°-80° | 798.9 | 3.4 |
| 80°-90° | 124.6 | 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° | 23573.0 | 100.0 |
| 0°-180° | 23573.0 | 100.0 |

Coefficient of Utilization



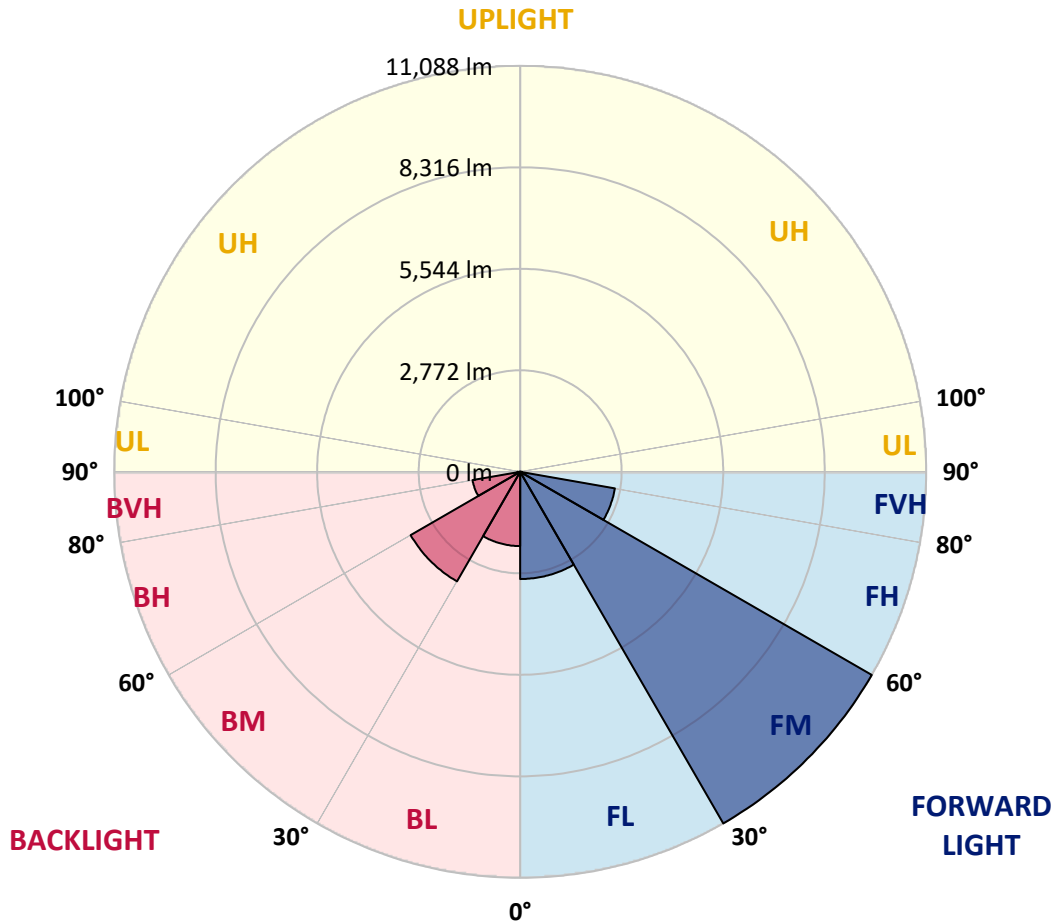
REPORT NUMBER: P529454
 CATALOG NUMBER: GALN-SA4C-760-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2928.6 | 12.4 | | | |
| FM (30°-60°) | 11088.3 | 47.0 | | | |
| FH (60°-80°) | 2626.9 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 50.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2028.9 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 3454.5 | 14.7 | B3/5000 | | |
| BH (60°-80°) | 1321.2 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 74.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P529454

CATALOG NUMBER: GALN-SA4C-760-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 |
| 2.5° | 7702.1 | 7635.6 | 7674.9 | 7659.8 | 7783.8 | 7820.0 | 7801.9 | 7817.0 | 7886.6 | 7853.3 | 7783.8 |
| 5° | 7197.1 | 7290.8 | 7309.0 | 7354.4 | 7426.9 | 7569.1 | 7680.9 | 7711.2 | 7744.4 | 7898.7 | 7883.5 |
| 7.5° | 6737.5 | 6801.0 | 6767.7 | 6900.8 | 7058.0 | 7287.8 | 7423.9 | 7448.1 | 7753.5 | 7838.2 | 7901.7 |
| 10° | 6447.2 | 6383.6 | 6534.8 | 6571.1 | 6749.6 | 7012.6 | 7175.9 | 7275.7 | 7553.9 | 7889.6 | 7928.9 |
| 12.5° | 6178.0 | 6156.8 | 6247.6 | 6350.4 | 6550.0 | 6822.1 | 6988.4 | 7027.8 | 7457.2 | 7811.0 | 7995.4 |
| 15° | 5978.4 | 5954.2 | 6045.0 | 6120.6 | 6353.4 | 6595.3 | 6807.0 | 6918.9 | 7351.3 | 7765.6 | 7938.0 |
| 17.5° | 5821.2 | 5818.2 | 5869.6 | 6005.6 | 6244.5 | 6447.2 | 6788.9 | 6794.9 | 7296.9 | 7835.2 | 7986.4 |
| 20° | 5812.1 | 5809.1 | 5818.2 | 5969.4 | 6187.1 | 6435.1 | 6731.4 | 6785.8 | 7296.9 | 7786.8 | 7989.4 |
| 22.5° | 5887.7 | 5839.3 | 5893.8 | 5990.5 | 6147.8 | 6456.2 | 6752.6 | 6873.5 | 7472.3 | 8025.7 | 8125.5 |
| 25° | 6008.7 | 6020.8 | 6051.0 | 6084.3 | 6175.0 | 6504.6 | 6940.1 | 7039.9 | 7677.9 | 8231.3 | 8313.0 |
| 27.5° | 6229.4 | 6223.4 | 6235.5 | 6253.6 | 6332.2 | 6550.0 | 7015.7 | 7272.7 | 8107.3 | 8597.2 | 8515.6 |
| 30° | 6553.0 | 6531.8 | 6580.2 | 6643.7 | 6571.1 | 6695.1 | 7266.7 | 7460.2 | 8506.5 | 8966.1 | 8742.4 |
| 32.5° | 6846.3 | 6924.9 | 7015.7 | 7042.9 | 6955.2 | 6979.4 | 7599.3 | 7795.9 | 8839.1 | 9419.7 | 9020.6 |
| 35° | 7212.2 | 7275.7 | 7396.7 | 7481.4 | 7466.2 | 7393.7 | 8052.9 | 8313.0 | 9319.9 | 9752.4 | 9313.9 |
| 37.5° | 7569.1 | 7644.7 | 7844.2 | 8095.2 | 7956.1 | 7922.9 | 8536.7 | 8751.4 | 9468.1 | 9930.8 | 9528.6 |
| 40° | 8143.6 | 8140.6 | 8485.3 | 8615.4 | 8739.3 | 8681.9 | 9038.7 | 9111.3 | 9546.7 | 9891.5 | 9534.6 |
| 42.5° | 8818.0 | 8775.6 | 9126.4 | 9329.0 | 9489.3 | 9495.3 | 9561.9 | 9537.7 | 9583.0 | 9691.9 | 9471.1 |
| 45° | 9459.0 | 9549.8 | 9903.6 | 10266.5 | 10426.7 | 10444.9 | 10003.4 | 9958.0 | 9646.5 | 9634.4 | 9350.2 |
| 47.5° | 10242.3 | 10263.4 | 10553.7 | 11031.5 | 11403.5 | 11276.5 | 10574.9 | 10475.1 | 9924.7 | 10018.5 | 9552.8 |
| 50° | 10287.6 | 10444.9 | 10704.9 | 11267.4 | 12410.5 | 12377.2 | 11315.8 | 11128.3 | 10372.3 | 10562.8 | 10118.3 |
| 52.5° | 9338.1 | 9301.8 | 9610.2 | 10529.5 | 12334.9 | 13471.9 | 12543.5 | 12096.0 | 11333.9 | 11188.8 | 11034.5 |
| 55° | 7115.5 | 7200.1 | 7472.3 | 8400.7 | 10711.0 | 13487.0 | 14215.8 | 13849.9 | 12362.1 | 12114.1 | 11935.7 |
| 56° | 6241.5 | 6253.6 | 6510.7 | 7357.4 | 9773.5 | 13006.2 | 14533.3 | 14237.0 | 12873.1 | 12495.1 | 12223.0 |
| 57.5° | 5174.1 | 5104.5 | 5237.6 | 5700.2 | 8249.5 | 11990.1 | 14185.6 | 14475.9 | 13471.9 | 12906.4 | 12528.4 |
| 60° | 4073.3 | 4058.2 | 4003.8 | 4088.4 | 5213.4 | 9032.7 | 11808.7 | 12461.9 | 13411.4 | 12519.3 | 11999.2 |
| 62.5° | 3326.4 | 3250.8 | 3359.7 | 3480.6 | 3622.7 | 5603.5 | 8297.8 | 8681.9 | 10647.5 | 9994.3 | 9014.5 |
| 65° | 2579.5 | 2543.2 | 2679.3 | 3072.4 | 3157.0 | 3559.2 | 4726.5 | 5022.9 | 6286.9 | 6175.0 | 5437.1 |
| 67.5° | 1775.1 | 1781.1 | 1899.1 | 2497.8 | 2927.2 | 2890.9 | 2894.0 | 3048.2 | 3281.0 | 2437.3 | 2122.8 |
| 70° | 1124.9 | 1121.9 | 1185.4 | 1608.8 | 2355.7 | 2379.9 | 2258.9 | 2213.6 | 2098.7 | 1270.1 | 1345.7 |
| 72.5° | 722.7 | 701.6 | 734.8 | 889.1 | 1218.7 | 1409.2 | 1451.5 | 1478.7 | 1215.6 | 997.9 | 1082.6 |
| 75° | 408.2 | 387.1 | 375.0 | 414.3 | 480.8 | 556.4 | 610.8 | 629.0 | 704.6 | 756.0 | 801.4 |
| 77.5° | 124.0 | 111.9 | 136.1 | 181.4 | 238.9 | 320.5 | 390.1 | 402.2 | 474.8 | 535.2 | 580.6 |
| 80° | 54.4 | 60.5 | 84.7 | 121.0 | 169.3 | 226.8 | 275.2 | 293.3 | 341.7 | 387.1 | 399.2 |
| 82.5° | 33.3 | 36.3 | 57.5 | 81.6 | 117.9 | 160.3 | 196.6 | 202.6 | 251.0 | 287.3 | 296.4 |
| 85° | 12.1 | 15.1 | 30.2 | 48.4 | 75.6 | 102.8 | 102.8 | 111.9 | 102.8 | 102.8 | 111.9 |
| 87.5° | 0.0 | 0.0 | 3.0 | 6.0 | 6.0 | 9.1 | 12.1 | 12.1 | 15.1 | 18.1 | 21.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P529454

CATALOG NUMBER: GALN-SA4C-760-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 | 7798.9 |
| 2.5° | 7820.0 | 7804.9 | 7780.7 | 7693.0 | 7684.0 | 7656.7 | 7505.6 | 7481.4 | 7505.6 | 7433.0 | 7439.0 |
| 5° | 7804.9 | 7850.3 | 7668.8 | 7581.1 | 7417.9 | 7299.9 | 7163.8 | 7094.3 | 6970.3 | 6891.7 | 6979.4 |
| 7.5° | 7871.5 | 7853.3 | 7626.5 | 7436.0 | 7191.1 | 6891.7 | 6652.8 | 6516.7 | 6299.0 | 6238.5 | 6283.9 |
| 10° | 7847.3 | 7750.5 | 7484.4 | 7233.4 | 6770.7 | 6507.6 | 6120.6 | 5745.6 | 5540.0 | 5434.1 | 5419.0 |
| 12.5° | 7814.0 | 7786.8 | 7342.3 | 6909.8 | 6423.0 | 5869.6 | 5325.3 | 4971.4 | 4635.8 | 4490.6 | 4511.8 |
| 15° | 7853.3 | 7623.5 | 7076.1 | 6528.8 | 5881.7 | 5155.9 | 4569.3 | 4112.6 | 3879.8 | 3786.0 | 3786.0 |
| 17.5° | 7835.2 | 7544.9 | 6949.1 | 6102.4 | 5282.9 | 4424.1 | 3780.0 | 3504.8 | 3408.0 | 3408.0 | 3435.3 |
| 20° | 7844.2 | 7596.3 | 6692.1 | 5676.0 | 4575.3 | 3725.6 | 3256.8 | 3157.0 | 3199.4 | 3214.5 | 3229.6 |
| 22.5° | 7895.6 | 7426.9 | 6441.1 | 5207.3 | 3919.1 | 3187.3 | 2957.5 | 2960.5 | 3036.1 | 3117.7 | 3102.6 |
| 25° | 7959.1 | 7360.4 | 6135.7 | 4741.6 | 3417.1 | 2924.2 | 2851.6 | 2842.6 | 2900.0 | 2942.3 | 2948.4 |
| 27.5° | 7904.7 | 7245.5 | 5824.2 | 4161.0 | 3005.8 | 2748.8 | 2733.7 | 2739.7 | 2757.9 | 2842.6 | 2815.3 |
| 30° | 8083.1 | 7278.8 | 5434.1 | 3674.2 | 2779.0 | 2691.4 | 2673.2 | 2664.1 | 2691.4 | 2715.5 | 2694.4 |
| 32.5° | 8303.9 | 7160.8 | 5143.8 | 3205.4 | 2667.2 | 2649.0 | 2612.7 | 2600.6 | 2615.8 | 2591.6 | 2603.7 |
| 35° | 8400.7 | 7139.6 | 4765.8 | 2869.8 | 2579.5 | 2564.3 | 2543.2 | 2540.2 | 2543.2 | 2522.0 | 2503.9 |
| 37.5° | 8455.1 | 7239.4 | 4333.4 | 2715.5 | 2525.0 | 2540.2 | 2491.8 | 2485.7 | 2431.3 | 2443.4 | 2452.5 |
| 40° | 8548.8 | 7085.2 | 3982.6 | 2567.4 | 2491.8 | 2461.5 | 2419.2 | 2410.1 | 2373.8 | 2352.7 | 2373.8 |
| 42.5° | 8412.7 | 7039.9 | 3637.9 | 2503.9 | 2443.4 | 2410.1 | 2379.9 | 2328.5 | 2316.4 | 2298.2 | 2286.1 |
| 45° | 8303.9 | 6779.8 | 3329.4 | 2425.2 | 2385.9 | 2367.8 | 2310.3 | 2255.9 | 2210.5 | 2228.7 | 2201.5 |
| 47.5° | 8385.5 | 6689.1 | 3024.0 | 2358.7 | 2307.3 | 2286.1 | 2228.7 | 2186.3 | 2141.0 | 2119.8 | 2113.8 |
| 50° | 8712.1 | 6858.4 | 2767.0 | 2310.3 | 2240.8 | 2228.7 | 2153.1 | 2104.7 | 2062.4 | 2047.2 | 2053.3 |
| 52.5° | 9492.3 | 7321.1 | 2591.6 | 2210.5 | 2177.3 | 2122.8 | 2080.5 | 2020.0 | 1992.8 | 1944.4 | 1974.7 |
| 55° | 10481.2 | 8074.1 | 2546.2 | 2116.8 | 2098.7 | 2050.3 | 1992.8 | 1947.5 | 1896.0 | 1856.7 | 1847.7 |
| 56° | 10798.7 | 8433.9 | 2509.9 | 2080.5 | 2050.3 | 2023.1 | 1947.5 | 1920.2 | 1838.6 | 1829.5 | 1823.5 |
| 57.5° | 11055.7 | 8751.4 | 2516.0 | 2011.0 | 1980.7 | 1956.5 | 1911.2 | 1844.6 | 1790.2 | 1756.9 | 1772.1 |
| 60° | 10475.1 | 8192.0 | 2401.1 | 1905.1 | 1899.1 | 1853.7 | 1790.2 | 1760.0 | 1693.4 | 1654.1 | 1645.1 |
| 62.5° | 7786.8 | 5561.1 | 1947.5 | 1769.0 | 1766.0 | 1717.6 | 1645.1 | 1611.8 | 1599.7 | 1545.3 | 1545.3 |
| 65° | 4484.6 | 3486.7 | 1684.4 | 1657.1 | 1633.0 | 1584.6 | 1512.0 | 1484.8 | 1454.5 | 1436.4 | 1421.3 |
| 67.5° | 1914.2 | 1808.3 | 1530.1 | 1527.1 | 1499.9 | 1439.4 | 1366.8 | 1324.5 | 1285.2 | 1248.9 | 1267.1 |
| 70° | 1388.0 | 1409.2 | 1382.0 | 1366.8 | 1333.6 | 1258.0 | 1194.5 | 1143.1 | 1082.6 | 1058.4 | 1076.5 |
| 72.5° | 1100.7 | 1146.1 | 1185.4 | 1188.4 | 1149.1 | 1061.4 | 991.9 | 922.3 | 855.8 | 822.5 | 837.6 |
| 75° | 834.6 | 864.9 | 904.2 | 913.2 | 855.8 | 795.3 | 728.8 | 656.2 | 604.8 | 565.5 | 571.5 |
| 77.5° | 601.8 | 595.7 | 632.0 | 626.0 | 598.8 | 556.4 | 495.9 | 429.4 | 372.0 | 335.7 | 338.7 |
| 80° | 411.3 | 420.3 | 441.5 | 438.5 | 405.2 | 378.0 | 332.6 | 278.2 | 235.9 | 205.6 | 199.6 |
| 82.5° | 287.3 | 302.4 | 320.5 | 305.4 | 278.2 | 251.0 | 217.7 | 178.4 | 145.2 | 121.0 | 114.9 |
| 85° | 102.8 | 117.9 | 136.1 | 145.2 | 154.2 | 148.2 | 124.0 | 99.8 | 72.6 | 60.5 | 57.5 |
| 87.5° | 21.2 | 24.2 | 27.2 | 27.2 | 27.2 | 24.2 | 21.2 | 21.2 | 18.1 | 9.1 | 9.1 |
| 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)