

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: P533155

Luminaire Tested: **GALN-SA8C-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37547 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

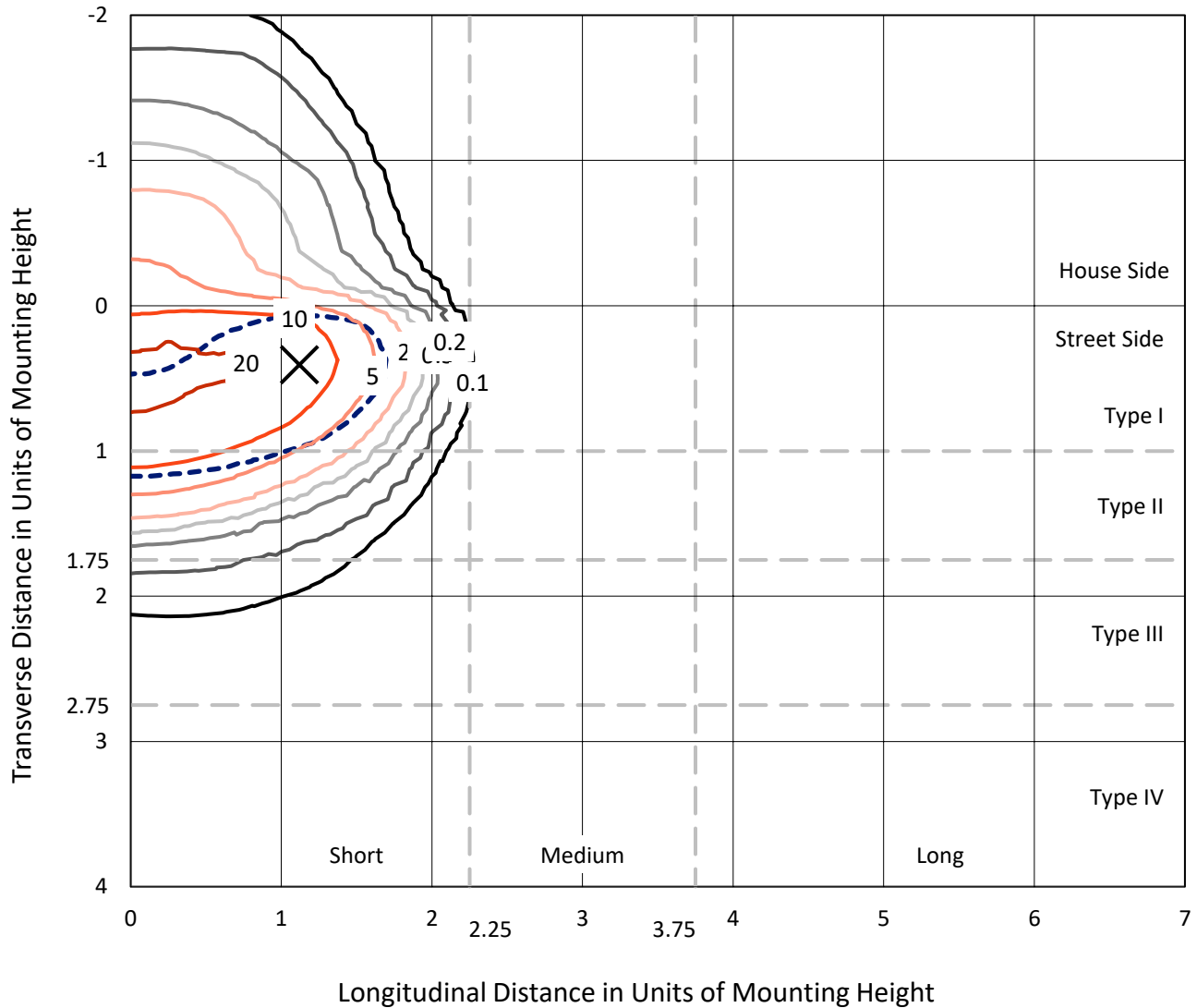
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533155
 CATALOG NUMBER: GALN-SA8C-740-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

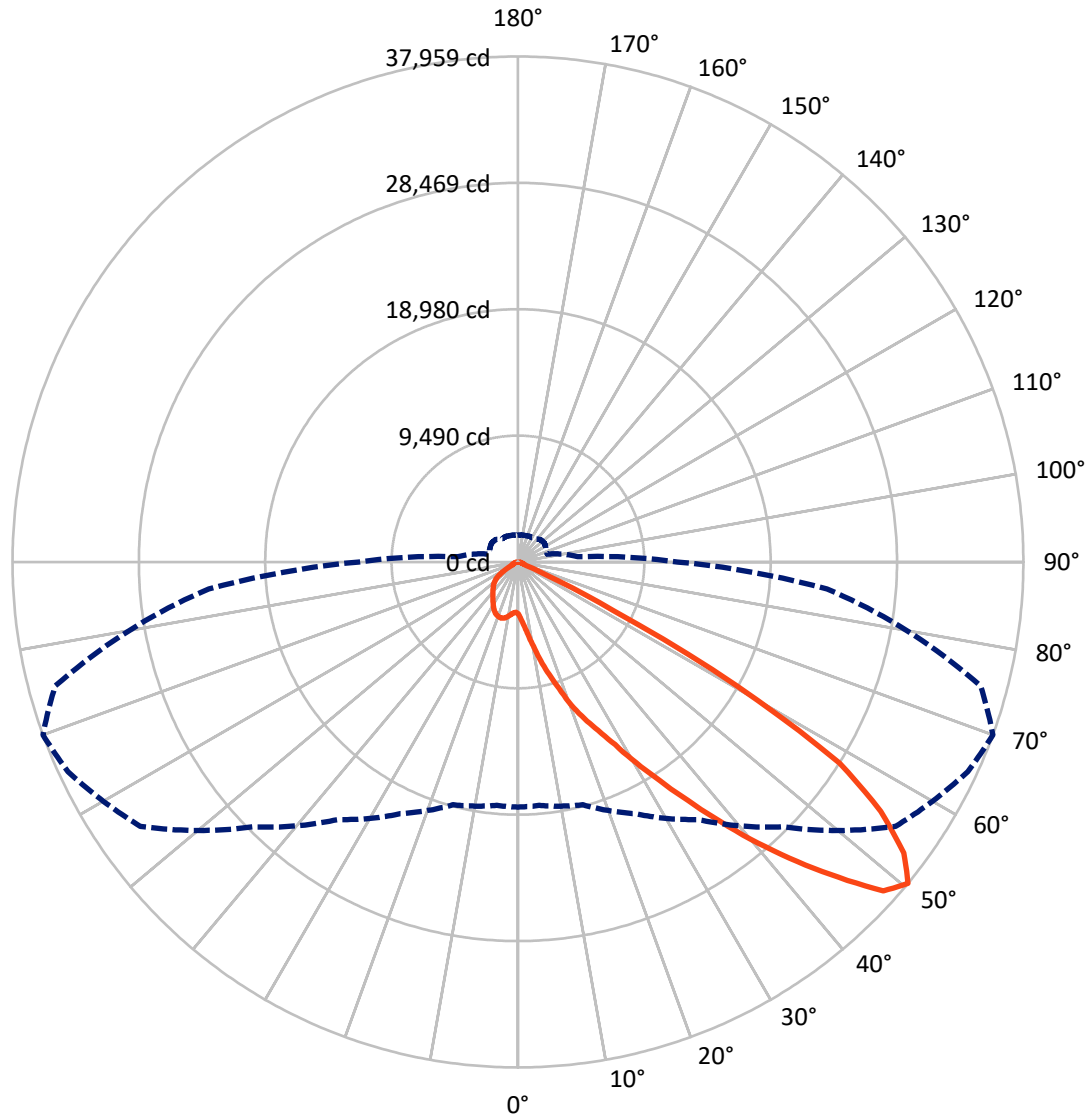
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type I - Short - N/A

REPORT NUMBER: P533155
CATALOG NUMBER: GALN-SA8C-740-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P533155

CATALOG NUMBER: GALN-SA8C-740-U-T2R-GRSBK

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5243.7 | 0.0 | 5243.7 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 32303.3 | 0.0 | 32303.3 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 37547.0 | 0.0 | 37547.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 505.7 | 1.3 |
| 10°-20° | 2187.6 | 5.8 |
| 20°-30° | 4589.2 | 12.2 |
| 30°-40° | 7910.3 | 21.1 |
| 40°-50° | 11560.8 | 30.8 |
| 50°-60° | 9004.0 | 24.0 |
| 60°-70° | 1525.5 | 4.1 |
| 70°-80° | 209.6 | 0.6 |
| 80°-90° | 54.3 | 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° | 37547.0 | 100.0 |
| 0°-180° | 37547.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P533155

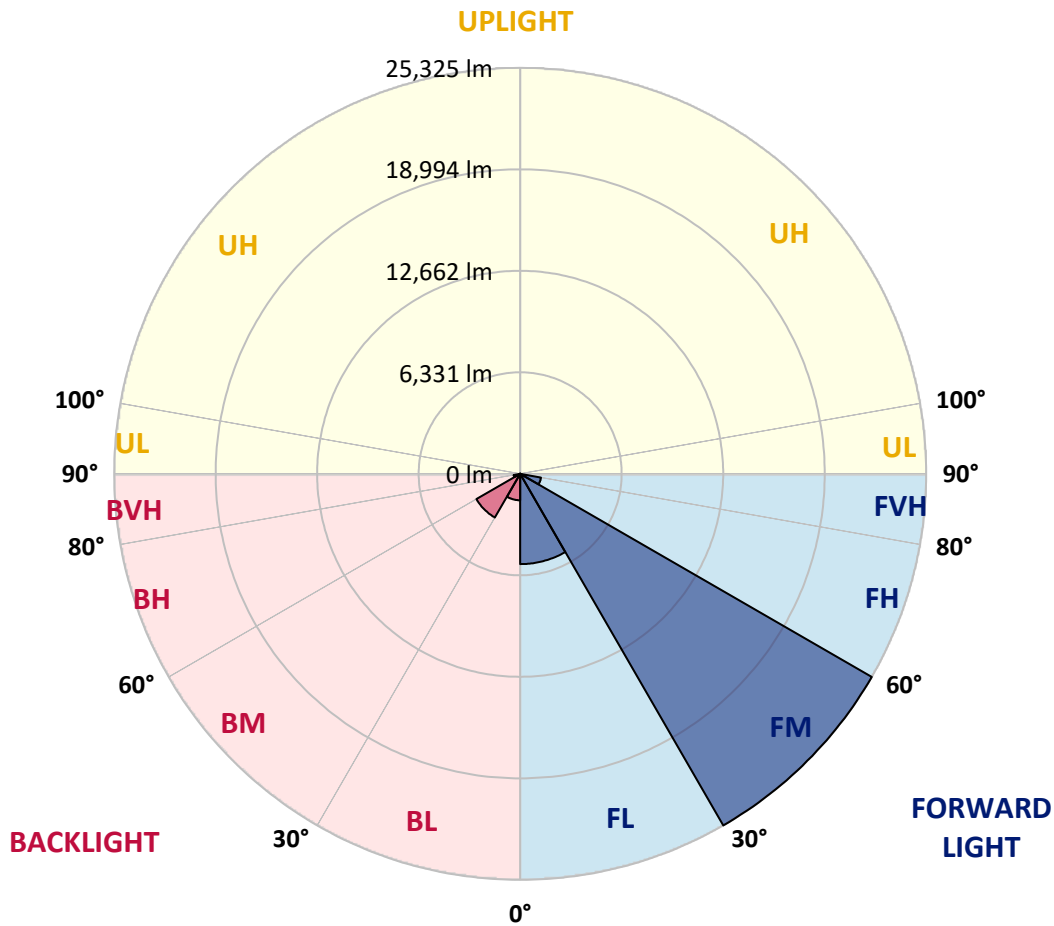
CATALOG NUMBER: GALN-SA8C-740-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5632.5 | 15.0 | | | |
| FM (30°-60°) | 25324.8 | 67.4 | | | |
| FH (60°-80°) | 1320.9 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 25.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1650.1 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 3150.2 | 8.4 | B3/5000 | | |
| BH (60°-80°) | 414.2 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 29.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P533155

CATALOG NUMBER: GALN-SA8C-740-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 |
| 2.5° | 5092.9 | 5055.9 | 4975.6 | 4827.5 | 4765.7 | 4617.6 | 4531.1 | 4364.5 | 4259.5 | 4142.2 | 4012.6 |
| 5° | 7173.3 | 6981.9 | 6864.6 | 6697.9 | 6210.3 | 5907.8 | 5407.7 | 4981.8 | 4784.2 | 4568.2 | 4271.9 |
| 7.5° | 9321.6 | 9198.1 | 9037.6 | 8679.6 | 8346.2 | 7716.5 | 6858.4 | 5920.1 | 5518.9 | 5148.5 | 4562.0 |
| 10° | 11099.5 | 10753.8 | 10735.2 | 10469.8 | 10105.6 | 9352.4 | 8321.5 | 7154.8 | 6438.7 | 5895.4 | 4975.6 |
| 12.5° | 12340.3 | 12025.4 | 12167.4 | 12136.6 | 11797.0 | 11105.6 | 9914.2 | 8370.9 | 7623.9 | 6778.2 | 5401.6 |
| 15° | 13470.0 | 13340.3 | 13297.1 | 13260.1 | 13124.3 | 12611.9 | 11543.9 | 9852.5 | 8772.1 | 7753.6 | 5883.1 |
| 17.5° | 14575.0 | 14241.6 | 14402.1 | 14433.0 | 14420.6 | 13957.7 | 12957.6 | 11260.0 | 9988.3 | 8784.5 | 6389.3 |
| 20° | 15556.5 | 15587.4 | 15371.3 | 15328.1 | 15291.1 | 15272.6 | 14297.2 | 12655.1 | 11482.2 | 9864.8 | 7049.8 |
| 22.5° | 16815.9 | 16599.8 | 16791.2 | 16667.7 | 16426.9 | 16278.8 | 15531.8 | 13889.7 | 12778.6 | 11167.4 | 7722.7 |
| 25° | 18303.6 | 18476.5 | 18025.8 | 17976.4 | 17711.0 | 17198.6 | 16525.7 | 15272.6 | 14025.6 | 12377.3 | 8451.1 |
| 27.5° | 20137.1 | 19834.6 | 19717.3 | 19445.6 | 18964.1 | 18748.1 | 17957.9 | 16698.6 | 15531.8 | 13649.0 | 9154.9 |
| 30° | 21711.2 | 21631.0 | 21044.5 | 20723.5 | 20303.7 | 20297.6 | 19192.5 | 18630.8 | 17494.9 | 15642.9 | 10124.1 |
| 32.5° | 22995.3 | 22643.4 | 22427.3 | 22205.1 | 21865.6 | 21958.2 | 21026.0 | 20729.7 | 19587.6 | 17494.9 | 11266.1 |
| 35° | 23853.3 | 23600.2 | 23470.6 | 23131.1 | 23032.3 | 23445.9 | 23057.0 | 22933.5 | 21995.2 | 20100.0 | 12605.7 |
| 37.5° | 24125.0 | 24205.2 | 24180.5 | 23754.6 | 23964.4 | 25081.8 | 25581.8 | 25260.8 | 24767.0 | 22847.1 | 14056.4 |
| 40° | 24365.7 | 24421.3 | 24297.8 | 24797.8 | 25396.6 | 26668.3 | 28477.1 | 27946.2 | 27761.0 | 25631.2 | 16075.1 |
| 42.5° | 24501.5 | 24458.3 | 24458.3 | 25322.6 | 26230.0 | 28785.7 | 31273.5 | 30921.7 | 30779.7 | 28594.4 | 18408.5 |
| 45° | 23915.1 | 23495.3 | 23945.9 | 25118.8 | 26946.1 | 29829.0 | 33508.2 | 33995.9 | 33792.2 | 32119.3 | 21137.1 |
| 47.5° | 21723.6 | 21982.8 | 22235.9 | 23803.9 | 26075.7 | 29508.0 | 34878.7 | 36539.3 | 36915.9 | 35082.4 | 22927.3 |
| 50° | 18408.5 | 18353.0 | 18877.7 | 20853.1 | 23612.6 | 28125.2 | 34613.3 | 37273.9 | 37959.1 | 35971.4 | 23303.9 |
| 52.5° | 13389.7 | 13797.2 | 14365.1 | 16328.2 | 19600.0 | 24544.7 | 31187.1 | 35378.7 | 36292.4 | 34878.7 | 23057.0 |
| 55° | 7796.8 | 7346.1 | 8624.0 | 10284.6 | 13371.2 | 18513.5 | 26365.8 | 31360.0 | 33051.4 | 32890.9 | 21810.0 |
| 57.5° | 3123.7 | 3024.9 | 3463.2 | 4667.0 | 6975.7 | 11476.0 | 19174.0 | 25767.0 | 28477.1 | 30125.3 | 19167.9 |
| 60° | 1370.5 | 1339.6 | 1574.2 | 1901.4 | 2852.0 | 5290.5 | 10488.3 | 16025.7 | 18853.0 | 21050.7 | 13192.2 |
| 62.5° | 987.7 | 975.4 | 1092.7 | 1210.0 | 1506.3 | 2302.6 | 4407.7 | 6457.2 | 8049.9 | 9722.8 | 5907.8 |
| 65° | 796.3 | 827.2 | 907.5 | 969.2 | 1111.2 | 1277.9 | 1555.7 | 1796.4 | 2203.8 | 2284.1 | 1302.5 |
| 67.5° | 648.2 | 672.9 | 747.0 | 814.9 | 839.6 | 691.4 | 716.1 | 629.7 | 629.7 | 561.8 | 450.6 |
| 70° | 475.3 | 481.5 | 567.9 | 648.2 | 518.6 | 277.8 | 487.7 | 487.7 | 438.3 | 419.8 | 382.7 |
| 72.5° | 351.9 | 358.0 | 426.0 | 401.3 | 203.7 | 172.9 | 358.0 | 395.1 | 358.0 | 339.5 | 308.7 |
| 75° | 259.3 | 265.4 | 222.2 | 92.6 | 86.4 | 111.1 | 209.9 | 271.6 | 259.3 | 253.1 | 234.6 |
| 77.5° | 49.4 | 37.0 | 30.9 | 43.2 | 61.7 | 92.6 | 135.8 | 166.7 | 172.9 | 185.2 | 172.9 |
| 80° | 6.2 | 6.2 | 18.5 | 37.0 | 67.9 | 98.8 | 142.0 | 160.5 | 166.7 | 172.9 | 160.5 |
| 82.5° | 0.0 | 6.2 | 18.5 | 37.0 | 67.9 | 92.6 | 123.5 | 142.0 | 154.3 | 160.5 | 154.3 |
| 85° | 0.0 | 6.2 | 12.3 | 30.9 | 55.6 | 67.9 | 61.7 | 43.2 | 37.0 | 43.2 | 30.9 |
| 87.5° | 0.0 | 0.0 | 6.2 | 6.2 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| 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: P533155

CATALOG NUMBER: GALN-SA8C-740-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 | 3889.1 |
| 2.5° | 3938.5 | 3913.8 | 3827.4 | 3734.8 | 3654.5 | 3691.6 | 3654.5 | 3623.7 | 3636.0 | 3623.7 | 3611.3 |
| 5° | 4154.6 | 4043.5 | 3858.3 | 3778.0 | 3710.1 | 3703.9 | 3685.4 | 3679.2 | 3685.4 | 3685.4 | 3629.9 |
| 7.5° | 4358.3 | 4179.3 | 3981.7 | 3895.3 | 3815.1 | 3821.2 | 3778.0 | 3778.0 | 3771.8 | 3741.0 | 3728.6 |
| 10° | 4667.0 | 4426.2 | 4173.1 | 4018.8 | 3920.0 | 3901.5 | 3858.3 | 3815.1 | 3815.1 | 3815.1 | 3753.3 |
| 12.5° | 5006.5 | 4704.0 | 4358.3 | 4179.3 | 4062.0 | 3969.4 | 3901.5 | 3889.1 | 3821.2 | 3808.9 | 3778.0 |
| 15° | 5302.8 | 4920.1 | 4481.8 | 4234.8 | 4086.7 | 3963.2 | 3858.3 | 3790.4 | 3759.5 | 3741.0 | 3716.3 |
| 17.5° | 5592.9 | 5105.3 | 4549.7 | 4234.8 | 4074.3 | 3932.3 | 3821.2 | 3759.5 | 3685.4 | 3697.8 | 3648.4 |
| 20° | 5981.9 | 5302.8 | 4568.2 | 4154.6 | 3957.0 | 3821.2 | 3673.1 | 3642.2 | 3599.0 | 3561.9 | 3574.3 |
| 22.5° | 6358.4 | 5444.8 | 4512.6 | 4055.8 | 3771.8 | 3611.3 | 3537.3 | 3500.2 | 3481.7 | 3450.8 | 3407.6 |
| 25° | 6697.9 | 5599.1 | 4426.2 | 3876.8 | 3574.3 | 3457.0 | 3389.1 | 3382.9 | 3339.7 | 3339.7 | 3259.5 |
| 27.5° | 7043.6 | 5654.7 | 4278.0 | 3666.9 | 3401.4 | 3333.5 | 3302.7 | 3290.3 | 3271.8 | 3228.6 | 3173.0 |
| 30° | 7438.7 | 5673.2 | 4062.0 | 3450.8 | 3247.1 | 3173.0 | 3216.2 | 3247.1 | 3166.9 | 3086.6 | 3111.3 |
| 32.5° | 7765.9 | 5630.0 | 3802.7 | 3247.1 | 3136.0 | 3099.0 | 3185.4 | 3216.2 | 3123.7 | 3037.2 | 2994.0 |
| 35° | 8161.0 | 5525.0 | 3549.6 | 3086.6 | 3024.9 | 3099.0 | 3173.0 | 3173.0 | 2987.8 | 2882.9 | 2858.2 |
| 37.5° | 8759.8 | 5407.7 | 3315.0 | 2950.8 | 2907.6 | 3061.9 | 3160.7 | 3092.8 | 2802.6 | 2673.0 | 2642.1 |
| 40° | 9401.8 | 5333.7 | 3086.6 | 2815.0 | 2845.9 | 3000.2 | 3055.7 | 2845.9 | 2549.5 | 2469.3 | 2444.6 |
| 42.5° | 10334.0 | 5185.5 | 2882.9 | 2697.7 | 2790.3 | 2913.8 | 2913.8 | 2537.2 | 2426.1 | 2382.9 | 2376.7 |
| 45° | 11494.5 | 5080.6 | 2703.9 | 2598.9 | 2710.0 | 2740.9 | 2642.1 | 2376.7 | 2296.4 | 2284.1 | 2290.3 |
| 47.5° | 12062.5 | 4876.8 | 2518.7 | 2481.6 | 2561.9 | 2568.1 | 2308.8 | 2247.1 | 2179.1 | 2160.6 | 2148.3 |
| 50° | 11976.1 | 4512.6 | 2277.9 | 2327.3 | 2438.4 | 2376.7 | 2105.1 | 2117.4 | 2055.7 | 2049.5 | 2018.6 |
| 52.5° | 11371.1 | 3938.5 | 2037.2 | 2154.5 | 2277.9 | 2098.9 | 1938.4 | 1926.0 | 1926.0 | 1845.8 | 1814.9 |
| 55° | 10080.9 | 3173.0 | 1747.0 | 1895.2 | 2043.3 | 1765.5 | 1722.3 | 1710.0 | 1679.1 | 1605.0 | 1586.5 |
| 57.5° | 7982.0 | 2327.3 | 1314.9 | 1475.4 | 1734.7 | 1500.1 | 1493.9 | 1438.4 | 1358.1 | 1302.5 | 1302.5 |
| 60° | 4747.2 | 1339.6 | 827.2 | 901.3 | 1148.2 | 1216.1 | 1351.9 | 1327.2 | 1191.4 | 1105.0 | 1080.3 |
| 62.5° | 2166.8 | 691.4 | 524.7 | 537.1 | 617.3 | 790.2 | 1061.8 | 1228.5 | 1037.1 | 888.9 | 876.6 |
| 65° | 728.4 | 512.4 | 432.1 | 413.6 | 426.0 | 475.3 | 635.8 | 870.4 | 827.2 | 685.2 | 660.5 |
| 67.5° | 444.5 | 456.8 | 407.4 | 376.6 | 376.6 | 370.4 | 364.2 | 395.1 | 487.7 | 475.3 | 481.5 |
| 70° | 382.7 | 419.8 | 376.6 | 339.5 | 327.2 | 308.7 | 259.3 | 216.1 | 185.2 | 216.1 | 228.4 |
| 72.5° | 308.7 | 333.4 | 321.0 | 290.1 | 259.3 | 234.6 | 185.2 | 142.0 | 104.9 | 92.6 | 92.6 |
| 75° | 228.4 | 246.9 | 259.3 | 222.2 | 197.5 | 166.7 | 135.8 | 92.6 | 55.6 | 37.0 | 37.0 |
| 77.5° | 166.7 | 185.2 | 191.4 | 172.9 | 148.2 | 117.3 | 86.4 | 61.7 | 30.9 | 12.3 | 12.3 |
| 80° | 142.0 | 166.7 | 185.2 | 172.9 | 154.3 | 111.1 | 80.3 | 43.2 | 24.7 | 6.2 | 6.2 |
| 82.5° | 135.8 | 166.7 | 185.2 | 166.7 | 148.2 | 104.9 | 80.3 | 49.4 | 18.5 | 6.2 | 6.2 |
| 85° | 30.9 | 43.2 | 55.6 | 67.9 | 80.3 | 80.3 | 61.7 | 37.0 | 18.5 | 6.2 | 6.2 |
| 87.5° | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 6.2 | 6.2 | 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)