

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: P528259

Luminaire Tested: **GALN-SA3B-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528259
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-SA3B-750-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA 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: 9934 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

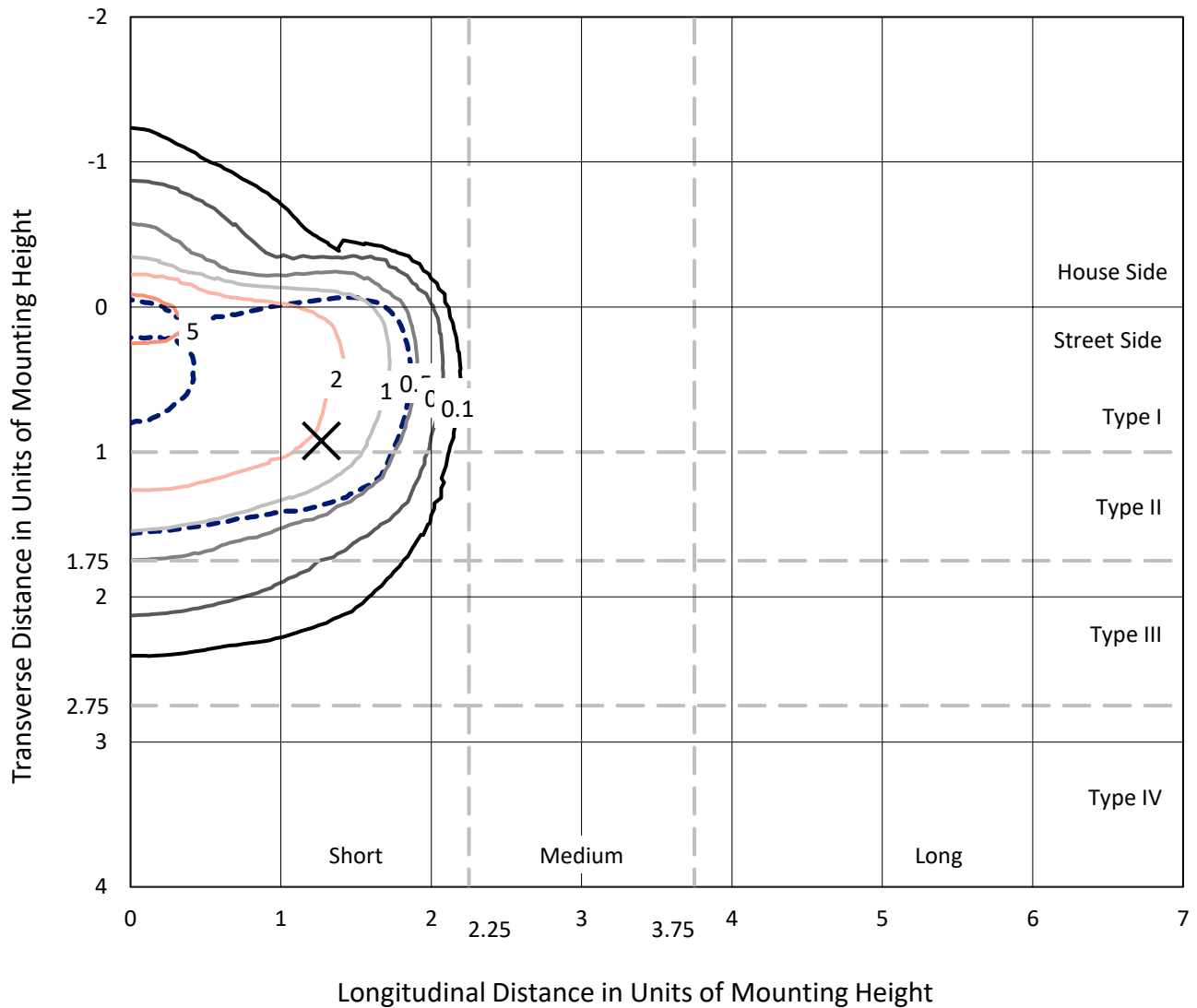
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

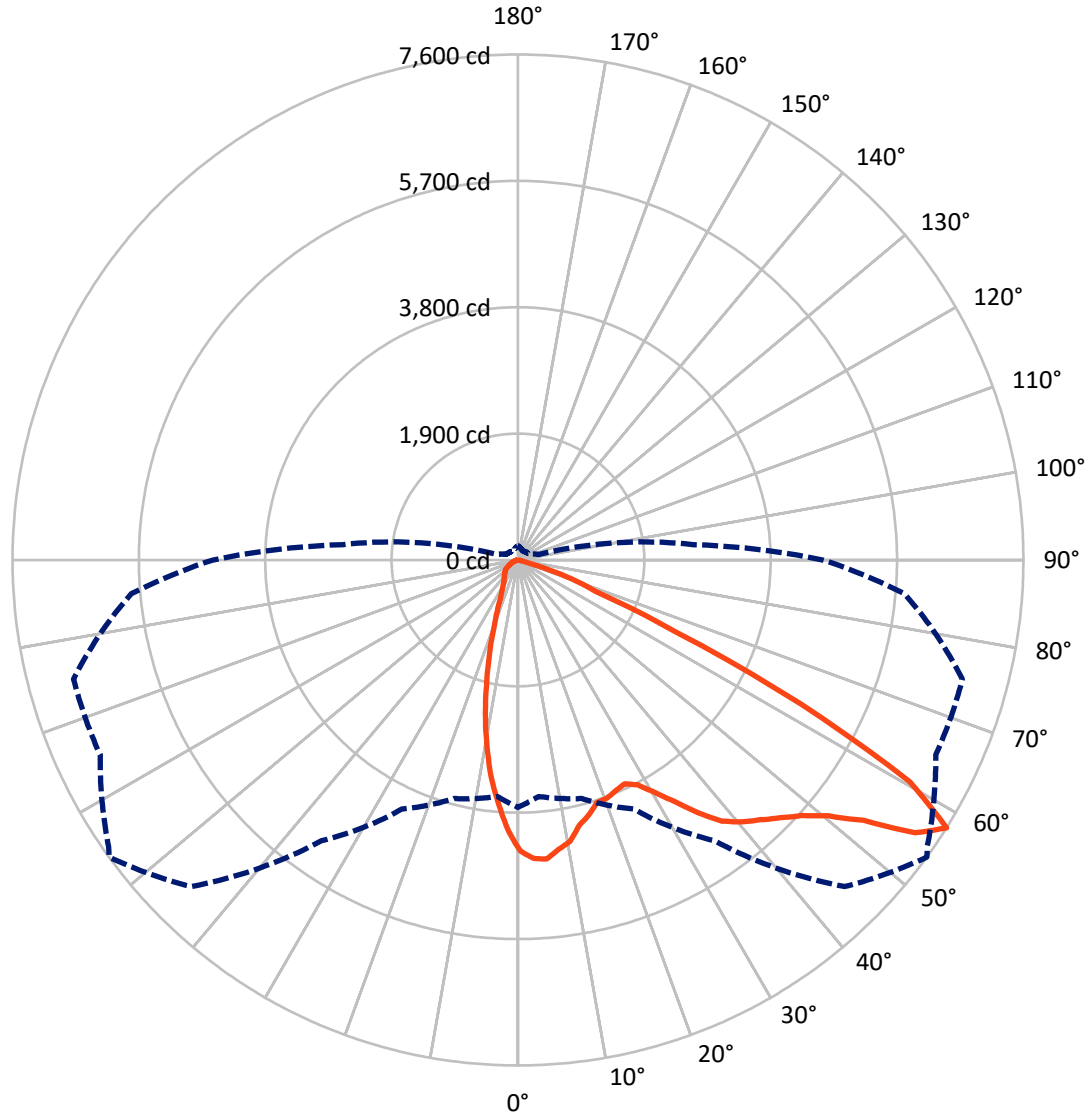
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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 | 1403.8 | 0.0 | 1403.8 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 8530.2 | 0.0 | 8530.2 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 9934.0 | 0.0 | 9934.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 366.2 | 3.7 |
| 10°-20° | 781.8 | 7.9 |
| 20°-30° | 1036.1 | 10.4 |
| 30°-40° | 1505.7 | 15.2 |
| 40°-50° | 2232.8 | 22.5 |
| 50°-60° | 2792.0 | 28.1 |
| 60°-70° | 1101.3 | 11.1 |
| 70°-80° | 109.7 | 1.1 |
| 80°-90° | 8.5 | 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° | 9934.0 | 100.0 |
| 0°-180° | 9934.0 | 100.0 |

Coefficient of Utilization

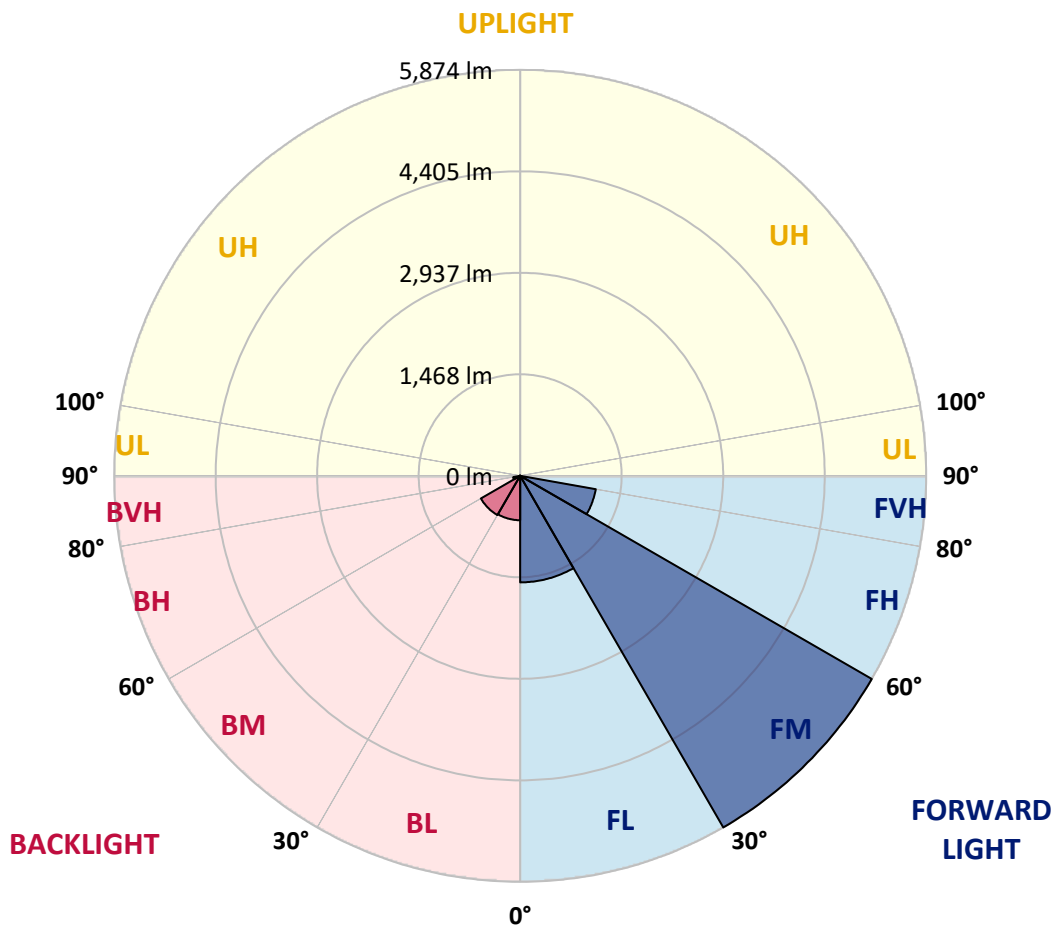


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1542.0 | 15.5 | | | |
| FM (30°-60°) | 5874.0 | 59.1 | | | |
| FH (60°-80°) | 1110.3 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 3.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 642.0 | 6.5 | B2/1000 | | |
| BM (30°-60°) | 656.5 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 100.7 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 |
| 2.5° | 4631.0 | 4582.9 | 4586.6 | 4570.0 | 4547.9 | 4564.5 | 4492.4 | 4509.1 | 4507.2 | 4409.3 | 4344.7 |
| 5° | 4514.6 | 4566.3 | 4512.8 | 4557.1 | 4514.6 | 4560.8 | 4516.4 | 4483.2 | 4429.6 | 4357.6 | 4237.5 |
| 7.5° | 4316.9 | 4267.1 | 4281.9 | 4337.3 | 4346.5 | 4449.9 | 4394.5 | 4437.0 | 4414.9 | 4272.6 | 4108.2 |
| 10° | 3919.8 | 3908.7 | 3982.6 | 4056.5 | 4147.0 | 4257.8 | 4300.3 | 4276.3 | 4259.7 | 4206.1 | 3986.3 |
| 12.5° | 3615.0 | 3646.4 | 3644.6 | 3766.5 | 3919.8 | 3982.6 | 4093.4 | 4089.7 | 4182.1 | 4082.4 | 3871.8 |
| 15° | 3325.0 | 3341.6 | 3419.2 | 3494.9 | 3664.9 | 3844.1 | 3980.8 | 3999.2 | 4110.1 | 4039.9 | 3783.1 |
| 17.5° | 3147.7 | 3123.6 | 3184.6 | 3275.1 | 3448.8 | 3683.4 | 3834.8 | 3879.2 | 4030.6 | 4015.9 | 3681.5 |
| 20° | 2972.2 | 2972.2 | 3022.0 | 3129.2 | 3288.0 | 3552.2 | 3821.9 | 3809.0 | 4030.6 | 3988.1 | 3572.5 |
| 22.5° | 2913.1 | 2942.6 | 2955.5 | 3036.8 | 3225.2 | 3452.5 | 3766.5 | 3790.5 | 4062.0 | 3975.2 | 3524.5 |
| 25° | 2994.3 | 2955.5 | 2959.2 | 3023.9 | 3201.2 | 3404.4 | 3725.8 | 3779.4 | 4119.3 | 4039.9 | 3485.7 |
| 27.5° | 3007.3 | 3046.1 | 3057.1 | 3101.5 | 3219.7 | 3419.2 | 3827.4 | 3936.4 | 4261.5 | 4191.3 | 3496.8 |
| 30° | 3120.0 | 3158.7 | 3156.9 | 3232.6 | 3313.9 | 3539.3 | 4054.6 | 4076.8 | 4555.2 | 4381.6 | 3565.1 |
| 32.5° | 3256.6 | 3297.3 | 3310.2 | 3398.9 | 3463.5 | 3759.1 | 4331.7 | 4389.0 | 4837.9 | 4680.9 | 3744.3 |
| 35° | 3426.6 | 3411.8 | 3470.9 | 3559.6 | 3698.1 | 4080.5 | 4669.8 | 4765.8 | 5142.7 | 5068.8 | 3929.0 |
| 37.5° | 3639.0 | 3620.5 | 3677.8 | 3821.9 | 4010.3 | 4461.0 | 4981.9 | 5044.8 | 5364.3 | 5429.0 | 4270.8 |
| 40° | 3788.6 | 3796.0 | 3969.7 | 4163.6 | 4363.1 | 4823.1 | 5179.6 | 5240.6 | 5519.5 | 5765.2 | 4529.4 |
| 42.5° | 4038.0 | 4084.2 | 4292.9 | 4529.4 | 4738.1 | 5094.6 | 5340.3 | 5399.4 | 5591.5 | 6034.9 | 4878.5 |
| 45° | 4400.1 | 4379.8 | 4610.7 | 4874.8 | 5105.7 | 5377.3 | 5530.6 | 5510.3 | 5634.0 | 6302.7 | 5098.3 |
| 47.5° | 4865.6 | 4869.3 | 5022.6 | 5247.9 | 5488.1 | 5622.9 | 5743.0 | 5671.0 | 5722.7 | 6585.3 | 5392.0 |
| 50° | 5183.3 | 5211.0 | 5334.8 | 5565.7 | 5685.7 | 5892.6 | 6045.9 | 6001.6 | 5985.0 | 6755.3 | 5576.8 |
| 52.5° | 5264.6 | 5347.7 | 5414.2 | 5702.4 | 5983.1 | 6310.1 | 6505.9 | 6600.1 | 6304.6 | 6812.5 | 5811.3 |
| 55° | 4651.3 | 4725.2 | 4959.8 | 5355.1 | 6095.8 | 6971.4 | 7241.1 | 7242.9 | 6722.0 | 7067.5 | 5975.8 |
| 57.5° | 3718.5 | 3568.8 | 3712.9 | 4132.2 | 5153.7 | 6943.7 | 7599.5 | 7512.6 | 6930.8 | 6917.8 | 5833.5 |
| 60° | 2571.3 | 2534.4 | 2543.6 | 2709.9 | 3567.0 | 5523.2 | 6771.9 | 6884.6 | 6382.1 | 5996.1 | 4618.0 |
| 62.5° | 2037.5 | 2006.1 | 1965.4 | 1947.0 | 2214.8 | 3441.4 | 4776.9 | 4935.8 | 4462.9 | 3888.4 | 2737.6 |
| 65° | 1596.0 | 1577.5 | 1583.1 | 1657.0 | 1655.1 | 1952.5 | 2612.0 | 2547.3 | 2039.3 | 1507.3 | 860.8 |
| 67.5° | 1076.9 | 1104.6 | 1126.8 | 1350.3 | 1464.8 | 1359.6 | 1261.7 | 1224.7 | 663.2 | 278.9 | 190.3 |
| 70° | 605.9 | 609.6 | 633.6 | 844.2 | 1112.0 | 1054.8 | 870.0 | 870.0 | 330.7 | 101.6 | 109.0 |
| 72.5° | 330.7 | 319.6 | 297.4 | 363.9 | 495.1 | 502.4 | 387.9 | 338.0 | 97.9 | 66.5 | 61.0 |
| 75° | 160.7 | 158.9 | 136.7 | 112.7 | 107.1 | 88.7 | 68.3 | 62.8 | 44.3 | 42.5 | 36.9 |
| 77.5° | 33.2 | 31.4 | 16.6 | 16.6 | 18.5 | 20.3 | 25.9 | 25.9 | 31.4 | 31.4 | 25.9 |
| 80° | 0.0 | 0.0 | 1.8 | 7.4 | 12.9 | 18.5 | 22.2 | 22.2 | 25.9 | 25.9 | 20.3 |
| 82.5° | 0.0 | 0.0 | 1.8 | 5.5 | 11.1 | 16.6 | 20.3 | 22.2 | 25.9 | 27.7 | 22.2 |
| 85° | 0.0 | 0.0 | 0.0 | 3.7 | 9.2 | 12.9 | 11.1 | 11.1 | 9.2 | 7.4 | 3.7 |
| 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° | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 | 4376.1 |
| 2.5° | 4311.4 | 4307.7 | 4222.7 | 4174.7 | 4087.9 | 4012.2 | 3951.2 | 3906.9 | 3906.9 | 3879.2 | 3853.3 |
| 5° | 4189.5 | 4158.1 | 3977.1 | 3860.7 | 3696.3 | 3574.4 | 3491.2 | 3426.6 | 3325.0 | 3352.7 | 3243.7 |
| 7.5° | 4038.0 | 3958.6 | 3718.5 | 3541.1 | 3313.9 | 3140.3 | 2962.9 | 2805.9 | 2654.5 | 2586.1 | 2623.1 |
| 10° | 3875.5 | 3736.9 | 3413.7 | 3132.9 | 2850.3 | 2532.5 | 2325.6 | 2074.4 | 1919.3 | 1910.0 | 1869.4 |
| 12.5° | 3703.7 | 3546.7 | 3153.2 | 2765.3 | 2394.0 | 2011.6 | 1695.7 | 1461.1 | 1355.9 | 1239.5 | 1261.7 |
| 15° | 3574.4 | 3341.6 | 2863.2 | 2395.8 | 1902.6 | 1516.6 | 1198.8 | 1017.8 | 918.1 | 890.4 | 881.1 |
| 17.5° | 3434.0 | 3184.6 | 2567.6 | 2002.4 | 1492.6 | 1091.7 | 862.7 | 775.8 | 737.0 | 737.0 | 731.5 |
| 20° | 3288.0 | 3007.3 | 2273.9 | 1636.6 | 1119.4 | 814.6 | 690.9 | 663.2 | 661.3 | 659.5 | 659.5 |
| 22.5° | 3192.0 | 2804.1 | 2007.9 | 1300.4 | 844.2 | 652.1 | 600.3 | 589.3 | 596.7 | 618.8 | 618.8 |
| 25° | 3090.4 | 2608.3 | 1714.2 | 1003.0 | 653.9 | 559.7 | 530.2 | 537.5 | 556.0 | 576.3 | 568.9 |
| 27.5° | 2987.0 | 2480.8 | 1437.1 | 786.9 | 535.7 | 489.5 | 478.4 | 495.1 | 515.4 | 533.8 | 528.3 |
| 30° | 2962.9 | 2344.1 | 1174.8 | 596.7 | 460.0 | 426.7 | 434.1 | 448.9 | 469.2 | 476.6 | 484.0 |
| 32.5° | 2999.9 | 2237.0 | 962.4 | 489.5 | 400.8 | 391.6 | 391.6 | 399.0 | 411.9 | 428.6 | 423.0 |
| 35° | 3105.2 | 2176.0 | 761.1 | 424.9 | 367.6 | 358.4 | 356.5 | 363.9 | 371.3 | 376.8 | 371.3 |
| 37.5° | 3265.9 | 2128.0 | 622.5 | 376.8 | 345.4 | 330.7 | 327.0 | 325.1 | 332.5 | 334.3 | 338.0 |
| 40° | 3470.9 | 2153.9 | 528.3 | 347.3 | 323.3 | 306.6 | 295.6 | 295.6 | 295.6 | 301.1 | 302.9 |
| 42.5° | 3692.6 | 2189.0 | 456.3 | 330.7 | 302.9 | 282.6 | 271.5 | 267.8 | 271.5 | 278.9 | 277.1 |
| 45° | 3925.3 | 2257.3 | 410.1 | 304.8 | 284.5 | 258.6 | 243.8 | 240.1 | 249.4 | 264.2 | 262.3 |
| 47.5° | 4143.3 | 2355.2 | 375.0 | 288.2 | 266.0 | 242.0 | 223.5 | 219.8 | 236.4 | 256.8 | 258.6 |
| 50° | 4361.3 | 2525.1 | 362.1 | 275.2 | 253.1 | 225.4 | 208.7 | 205.0 | 223.5 | 249.4 | 254.9 |
| 52.5° | 4612.5 | 2708.0 | 352.8 | 258.6 | 238.3 | 212.4 | 194.0 | 190.3 | 210.6 | 243.8 | 245.7 |
| 55° | 4776.9 | 2863.2 | 345.4 | 229.1 | 210.6 | 192.1 | 177.3 | 175.5 | 197.7 | 227.2 | 234.6 |
| 57.5° | 4584.8 | 2647.1 | 319.6 | 199.5 | 179.2 | 169.9 | 157.0 | 157.0 | 175.5 | 203.2 | 208.7 |
| 60° | 3476.5 | 1741.9 | 227.2 | 160.7 | 151.5 | 145.9 | 140.4 | 140.4 | 155.2 | 175.5 | 177.3 |
| 62.5° | 2035.6 | 938.4 | 145.9 | 129.3 | 129.3 | 123.8 | 114.5 | 114.5 | 129.3 | 140.4 | 142.2 |
| 65° | 604.0 | 301.1 | 118.2 | 110.8 | 109.0 | 99.7 | 90.5 | 88.7 | 99.7 | 105.3 | 103.4 |
| 67.5° | 173.6 | 138.5 | 97.9 | 92.4 | 90.5 | 75.7 | 70.2 | 68.3 | 70.2 | 66.5 | 64.7 |
| 70° | 103.4 | 94.2 | 75.7 | 77.6 | 68.3 | 55.4 | 49.9 | 48.0 | 44.3 | 38.8 | 35.1 |
| 72.5° | 57.3 | 57.3 | 55.4 | 59.1 | 48.0 | 36.9 | 31.4 | 25.9 | 20.3 | 16.6 | 14.8 |
| 75° | 35.1 | 36.9 | 38.8 | 40.6 | 31.4 | 24.0 | 20.3 | 12.9 | 7.4 | 3.7 | 3.7 |
| 77.5° | 24.0 | 25.9 | 27.7 | 29.6 | 25.9 | 22.2 | 16.6 | 9.2 | 1.8 | 0.0 | 0.0 |
| 80° | 18.5 | 20.3 | 24.0 | 25.9 | 27.7 | 29.6 | 22.2 | 9.2 | 1.8 | 0.0 | 0.0 |
| 82.5° | 20.3 | 22.2 | 27.7 | 25.9 | 25.9 | 25.9 | 20.3 | 9.2 | 1.8 | 0.0 | 0.0 |
| 85° | 3.7 | 5.5 | 9.2 | 9.2 | 12.9 | 16.6 | 12.9 | 3.7 | 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)