

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: P530626

Luminaire Tested: **GALN-SA5D-760-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-760-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32774 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

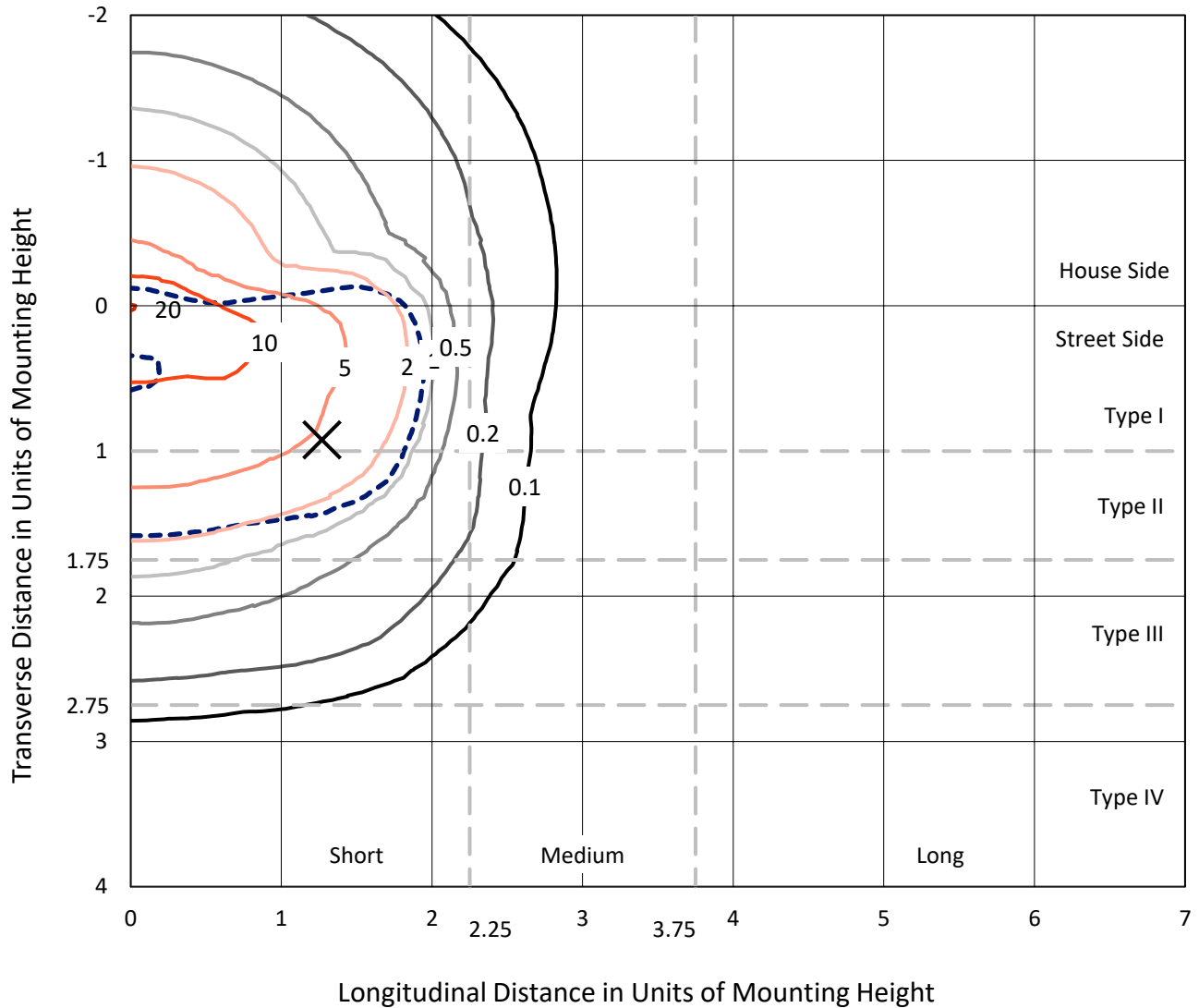
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

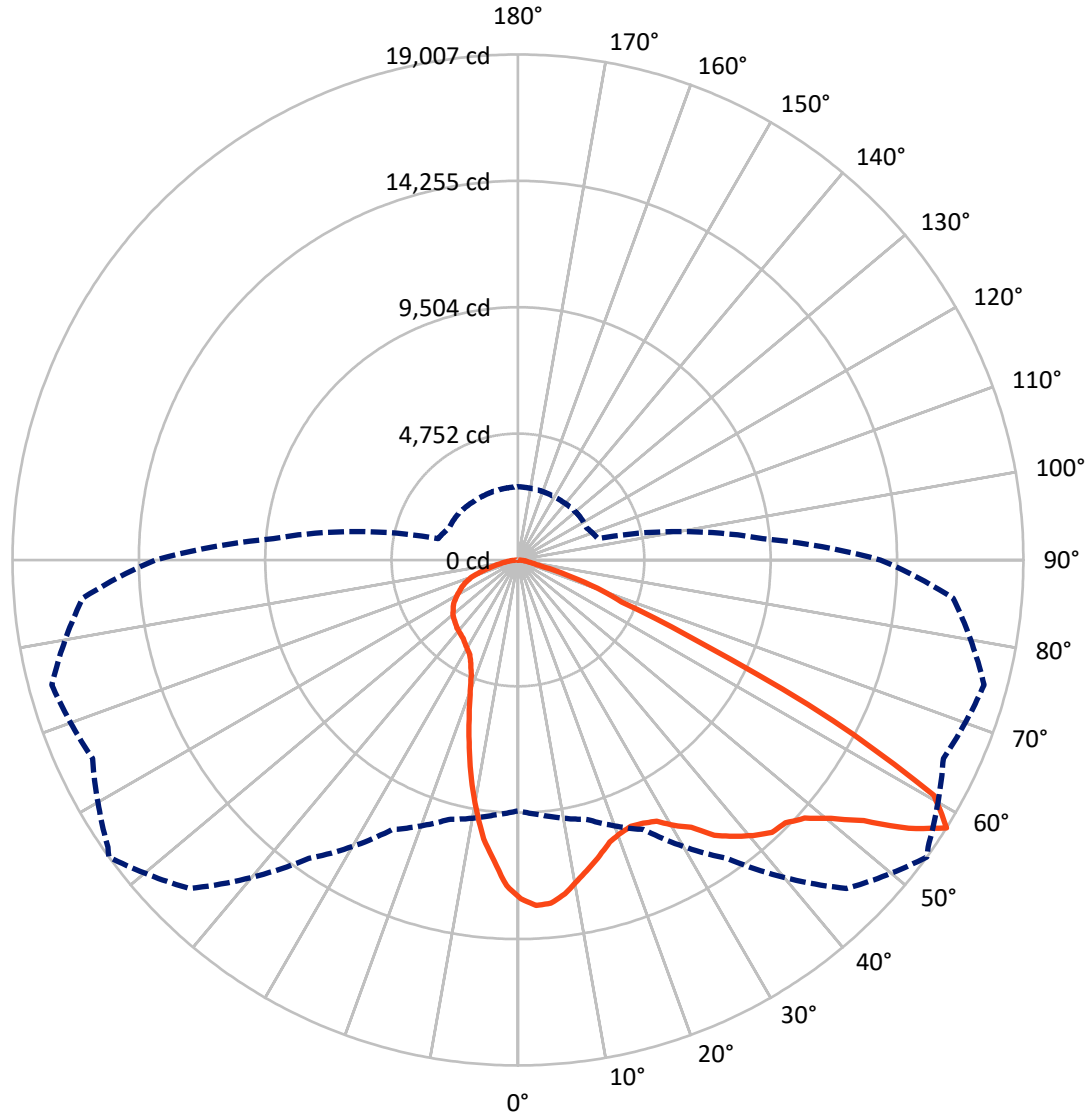
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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 | 9067.1 | 0.0 | 9067.1 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 23706.9 | 0.0 | 23706.9 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 32774.0 | 0.0 | 32774.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1098.6 | 3.4 |
| 10°-20° | 2543.7 | 7.8 |
| 20°-30° | 3573.9 | 10.9 |
| 30°-40° | 4996.3 | 15.2 |
| 40°-50° | 6764.1 | 20.6 |
| 50°-60° | 8238.9 | 25.1 |
| 60°-70° | 4291.2 | 13.1 |
| 70°-80° | 1099.6 | 3.4 |
| 80°-90° | 167.7 | 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° | 32774.0 | 100.0 |
| 0°-180° | 32774.0 | 100.0 |



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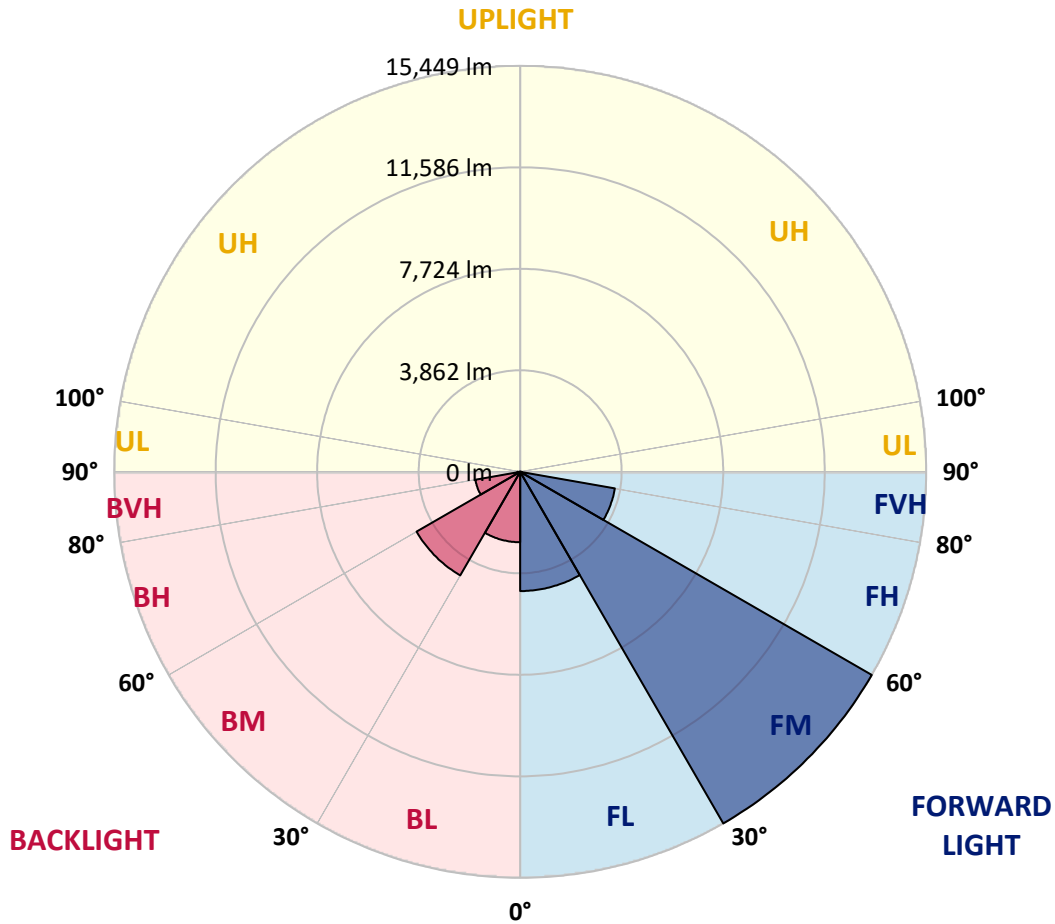
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4536.4 | 13.8 | | | |
| FM (30°-60°) | 15448.6 | 47.1 | | | |
| FH (60°-80°) | 3658.5 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 63.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2679.8 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 4550.7 | 13.9 | B3/5000 | | |
| BH (60°-80°) | 1732.3 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 104.4 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 |
| 2.5° | 13101.2 | 13050.6 | 13059.0 | 13126.4 | 13042.2 | 13008.5 | 13008.5 | 12844.2 | 12856.8 | 12743.1 | 12713.6 |
| 5° | 12797.9 | 12679.9 | 12759.9 | 12861.0 | 12877.9 | 12911.6 | 12966.4 | 12924.2 | 12806.3 | 12684.1 | 12486.1 |
| 7.5° | 12005.9 | 12111.2 | 12140.7 | 12212.3 | 12364.0 | 12503.0 | 12675.7 | 12557.7 | 12553.5 | 12431.4 | 12313.4 |
| 10° | 11310.8 | 11247.6 | 11407.7 | 11513.0 | 11765.8 | 11997.5 | 12262.9 | 12250.2 | 12313.4 | 12174.4 | 11972.2 |
| 12.5° | 10619.9 | 10569.4 | 10645.2 | 10885.3 | 11239.2 | 11576.2 | 11892.1 | 11774.2 | 12111.2 | 12085.9 | 11652.0 |
| 15° | 9887.0 | 9924.9 | 10034.4 | 10257.7 | 10721.0 | 11125.5 | 11525.7 | 11529.9 | 11829.0 | 11930.1 | 11348.7 |
| 17.5° | 9373.0 | 9330.9 | 9469.9 | 9802.7 | 10215.5 | 10700.0 | 11154.9 | 11247.6 | 11706.8 | 11765.8 | 11256.0 |
| 20° | 8989.7 | 9048.6 | 9229.8 | 9398.3 | 9874.3 | 10459.9 | 10973.8 | 11007.5 | 11681.5 | 11841.6 | 11108.6 |
| 22.5° | 8897.0 | 8863.3 | 8922.3 | 9196.1 | 9587.9 | 10224.0 | 10876.9 | 11003.3 | 11677.3 | 11816.3 | 10830.6 |
| 25° | 8800.1 | 8909.6 | 8905.4 | 9179.2 | 9465.7 | 10034.4 | 10957.0 | 11096.0 | 11900.6 | 11946.9 | 10868.5 |
| 27.5° | 9019.2 | 9006.5 | 9124.5 | 9145.5 | 9499.4 | 10084.9 | 11125.5 | 11230.8 | 12271.3 | 12233.4 | 10898.0 |
| 30° | 9238.2 | 9175.0 | 9246.6 | 9495.2 | 9659.5 | 10375.6 | 11588.8 | 11580.4 | 12751.5 | 12726.2 | 10990.7 |
| 32.5° | 9507.8 | 9478.3 | 9524.7 | 9743.7 | 10021.8 | 10763.2 | 11980.6 | 12229.2 | 13240.2 | 13400.3 | 11310.8 |
| 35° | 9558.4 | 9680.5 | 9790.1 | 10084.9 | 10480.9 | 11390.8 | 12717.8 | 12924.2 | 13804.7 | 14306.0 | 11921.6 |
| 37.5° | 9878.5 | 9924.9 | 10181.8 | 10704.2 | 11066.5 | 12229.2 | 13185.4 | 13316.0 | 14318.6 | 14887.3 | 12566.2 |
| 40° | 10219.7 | 10274.5 | 10662.1 | 11209.7 | 11706.8 | 12776.8 | 13623.5 | 13665.6 | 14482.9 | 15333.8 | 12987.4 |
| 42.5° | 10683.1 | 10733.7 | 11117.0 | 11803.7 | 12469.3 | 13244.4 | 14011.1 | 14057.4 | 14470.3 | 15847.8 | 13657.2 |
| 45° | 11163.4 | 11285.5 | 11736.3 | 12515.6 | 13113.8 | 13792.0 | 14099.5 | 14289.1 | 14588.2 | 16306.9 | 14200.6 |
| 47.5° | 11837.4 | 11951.1 | 12321.8 | 13084.3 | 13783.6 | 14272.3 | 14508.2 | 14693.5 | 14870.4 | 16707.1 | 14550.3 |
| 50° | 12553.5 | 12574.6 | 13025.3 | 13716.2 | 14230.1 | 14815.7 | 15270.6 | 15333.8 | 15241.2 | 17170.5 | 15144.3 |
| 52.5° | 13080.1 | 13147.5 | 13497.1 | 14171.2 | 14937.9 | 15658.2 | 16281.7 | 16349.1 | 16167.9 | 17343.2 | 15346.5 |
| 55° | 12208.1 | 12170.2 | 12738.9 | 13636.2 | 15413.9 | 16913.6 | 17819.3 | 17869.8 | 16841.9 | 17878.2 | 16007.8 |
| 57.5° | 9436.2 | 9617.3 | 10101.8 | 11184.4 | 13695.1 | 17469.6 | 19007.2 | 18826.1 | 17650.8 | 18147.8 | 16429.1 |
| 60° | 6858.1 | 6816.0 | 7140.3 | 7864.9 | 10320.9 | 15055.8 | 17970.9 | 18156.3 | 16989.4 | 16357.5 | 13547.7 |
| 62.5° | 5585.9 | 5526.9 | 5552.2 | 5577.5 | 6660.1 | 9992.3 | 13303.4 | 13299.2 | 13084.3 | 11757.3 | 9137.1 |
| 65° | 4465.3 | 4604.4 | 4617.0 | 4806.6 | 4945.6 | 5969.2 | 7709.0 | 8121.9 | 7072.9 | 5800.7 | 4208.4 |
| 67.5° | 3365.9 | 3315.3 | 3483.8 | 4157.8 | 4419.0 | 4309.5 | 4208.4 | 4254.7 | 3024.6 | 2182.1 | 2055.7 |
| 70° | 1984.1 | 1963.1 | 2165.3 | 2898.3 | 3639.7 | 3424.8 | 3172.1 | 3176.3 | 2076.8 | 1525.0 | 1697.7 |
| 72.5° | 1086.8 | 1082.6 | 1124.8 | 1470.2 | 2068.4 | 2148.4 | 1904.1 | 1963.1 | 1238.5 | 1234.3 | 1327.0 |
| 75° | 606.6 | 594.0 | 581.3 | 648.7 | 745.6 | 787.8 | 804.6 | 813.0 | 850.9 | 952.0 | 990.0 |
| 77.5° | 223.3 | 214.8 | 214.8 | 248.5 | 315.9 | 396.0 | 501.3 | 509.7 | 602.4 | 690.9 | 728.8 |
| 80° | 75.8 | 84.3 | 113.7 | 155.9 | 210.6 | 282.2 | 341.2 | 349.6 | 425.5 | 484.4 | 497.1 |
| 82.5° | 46.3 | 50.6 | 75.8 | 109.5 | 151.7 | 198.0 | 252.8 | 257.0 | 315.9 | 353.9 | 370.7 |
| 85° | 21.1 | 25.3 | 42.1 | 67.4 | 96.9 | 130.6 | 134.8 | 134.8 | 130.6 | 134.8 | 126.4 |
| 87.5° | 0.0 | 0.0 | 8.4 | 8.4 | 8.4 | 12.6 | 16.9 | 12.6 | 21.1 | 25.3 | 25.3 |
| 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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CATALOG NUMBER: GALN-SA5D-760-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 | 12738.9 |
| 2.5° | 12625.1 | 12578.8 | 12435.6 | 12309.2 | 12271.3 | 12102.8 | 11854.2 | 11883.7 | 11702.6 | 11786.8 | 11698.4 |
| 5° | 12452.4 | 12296.6 | 11930.1 | 11774.2 | 11365.6 | 11180.2 | 11053.8 | 10737.9 | 10590.5 | 10561.0 | 10434.6 |
| 7.5° | 12010.1 | 11913.2 | 11454.0 | 11032.8 | 10598.9 | 10228.2 | 9752.2 | 9427.8 | 9196.1 | 9132.9 | 8947.5 |
| 10° | 11660.5 | 11445.6 | 10809.5 | 10169.2 | 9549.9 | 8905.4 | 8286.2 | 7801.7 | 7565.8 | 7292.0 | 7199.3 |
| 12.5° | 11315.0 | 10990.7 | 10131.3 | 9309.8 | 8509.4 | 7696.4 | 6946.6 | 6356.8 | 5842.9 | 5720.7 | 5678.6 |
| 15° | 11100.2 | 10535.7 | 9524.7 | 8534.7 | 7397.3 | 6335.7 | 5585.9 | 5198.3 | 4882.4 | 4751.8 | 4844.5 |
| 17.5° | 10817.9 | 10160.8 | 8943.3 | 7624.8 | 6373.7 | 5396.3 | 4768.7 | 4528.5 | 4414.8 | 4427.4 | 4389.5 |
| 20° | 10464.1 | 9806.9 | 8180.9 | 6799.1 | 5459.5 | 4680.2 | 4322.1 | 4233.7 | 4250.5 | 4280.0 | 4267.4 |
| 22.5° | 10211.3 | 9377.2 | 7629.0 | 5956.6 | 4718.1 | 4284.2 | 4136.8 | 4073.6 | 4128.3 | 4153.6 | 4132.6 |
| 25° | 10017.5 | 9010.7 | 6959.2 | 5211.0 | 4288.4 | 4060.9 | 3993.5 | 3989.3 | 4073.6 | 4107.3 | 4086.2 |
| 27.5° | 9840.6 | 8669.5 | 6293.6 | 4642.3 | 4002.0 | 3888.2 | 3867.2 | 3917.7 | 3972.5 | 4006.2 | 4035.7 |
| 30° | 9735.3 | 8408.3 | 5670.1 | 4166.3 | 3858.7 | 3804.0 | 3766.1 | 3812.4 | 3841.9 | 3875.6 | 3858.7 |
| 32.5° | 9836.4 | 8223.0 | 5067.7 | 3896.6 | 3740.8 | 3686.0 | 3736.6 | 3707.1 | 3757.6 | 3787.1 | 3740.8 |
| 35° | 10152.3 | 8058.7 | 4638.1 | 3753.4 | 3606.0 | 3627.0 | 3635.5 | 3622.8 | 3643.9 | 3618.6 | 3673.4 |
| 37.5° | 10464.1 | 7999.7 | 4242.1 | 3631.3 | 3542.8 | 3542.8 | 3534.4 | 3509.1 | 3551.2 | 3542.8 | 3568.1 |
| 40° | 10860.1 | 8037.6 | 3905.1 | 3500.7 | 3483.8 | 3475.4 | 3441.7 | 3437.5 | 3420.6 | 3424.8 | 3433.3 |
| 42.5° | 11205.5 | 8121.9 | 3711.3 | 3416.4 | 3429.0 | 3445.9 | 3382.7 | 3332.2 | 3353.2 | 3311.1 | 3311.1 |
| 45° | 11572.0 | 8197.7 | 3538.6 | 3357.4 | 3344.8 | 3340.6 | 3290.0 | 3260.5 | 3243.7 | 3247.9 | 3285.8 |
| 47.5° | 12149.1 | 8307.2 | 3408.0 | 3277.4 | 3285.8 | 3222.6 | 3210.0 | 3172.1 | 3188.9 | 3214.2 | 3218.4 |
| 50° | 12557.7 | 8538.9 | 3306.9 | 3184.7 | 3214.2 | 3172.1 | 3096.3 | 3079.4 | 3079.4 | 3121.5 | 3113.1 |
| 52.5° | 12844.2 | 8863.3 | 3210.0 | 3083.6 | 3096.3 | 3062.6 | 3037.3 | 2999.4 | 2974.1 | 3033.1 | 3062.6 |
| 55° | 13720.4 | 9402.5 | 3184.7 | 2999.4 | 2995.2 | 2961.5 | 2915.1 | 2877.2 | 2864.6 | 2873.0 | 2932.0 |
| 57.5° | 13636.2 | 9234.0 | 3104.7 | 2851.9 | 2843.5 | 2797.2 | 2750.8 | 2738.2 | 2734.0 | 2742.4 | 2759.2 |
| 60° | 11070.7 | 6820.2 | 2771.9 | 2683.4 | 2670.8 | 2662.4 | 2616.0 | 2565.5 | 2540.2 | 2565.5 | 2544.4 |
| 62.5° | 7325.7 | 4566.4 | 2443.3 | 2481.2 | 2489.6 | 2468.6 | 2392.8 | 2342.2 | 2350.6 | 2380.1 | 2333.8 |
| 65° | 3597.6 | 2683.4 | 2215.8 | 2316.9 | 2325.4 | 2266.4 | 2194.8 | 2135.8 | 2106.3 | 2131.6 | 2110.5 |
| 67.5° | 2055.7 | 2051.5 | 2030.5 | 2135.8 | 2131.6 | 2072.6 | 1958.9 | 1908.3 | 1857.8 | 1866.2 | 1853.5 |
| 70° | 1744.0 | 1777.7 | 1819.8 | 1883.0 | 1878.8 | 1811.4 | 1676.6 | 1638.7 | 1567.1 | 1558.7 | 1537.6 |
| 72.5° | 1373.3 | 1432.3 | 1525.0 | 1571.3 | 1533.4 | 1449.1 | 1360.7 | 1297.5 | 1234.3 | 1196.4 | 1209.0 |
| 75° | 1019.4 | 1103.7 | 1154.3 | 1183.7 | 1124.8 | 1078.4 | 1006.8 | 931.0 | 855.2 | 821.5 | 808.8 |
| 77.5° | 741.4 | 766.7 | 813.0 | 834.1 | 796.2 | 749.8 | 707.7 | 631.9 | 560.3 | 513.9 | 501.3 |
| 80° | 518.1 | 535.0 | 568.7 | 568.7 | 568.7 | 547.6 | 492.9 | 417.0 | 370.7 | 328.6 | 320.2 |
| 82.5° | 362.3 | 379.1 | 412.8 | 396.0 | 391.8 | 366.5 | 332.8 | 273.8 | 223.3 | 193.8 | 185.4 |
| 85° | 126.4 | 139.0 | 168.5 | 202.2 | 214.8 | 210.6 | 189.6 | 151.7 | 118.0 | 96.9 | 88.5 |
| 87.5° | 29.5 | 29.5 | 33.7 | 29.5 | 29.5 | 33.7 | 29.5 | 29.5 | 29.5 | 21.1 | 16.9 |
| 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)