

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: P533616

Luminaire Tested: **GALN-SA9A-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533616
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-SA9A-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 35073 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

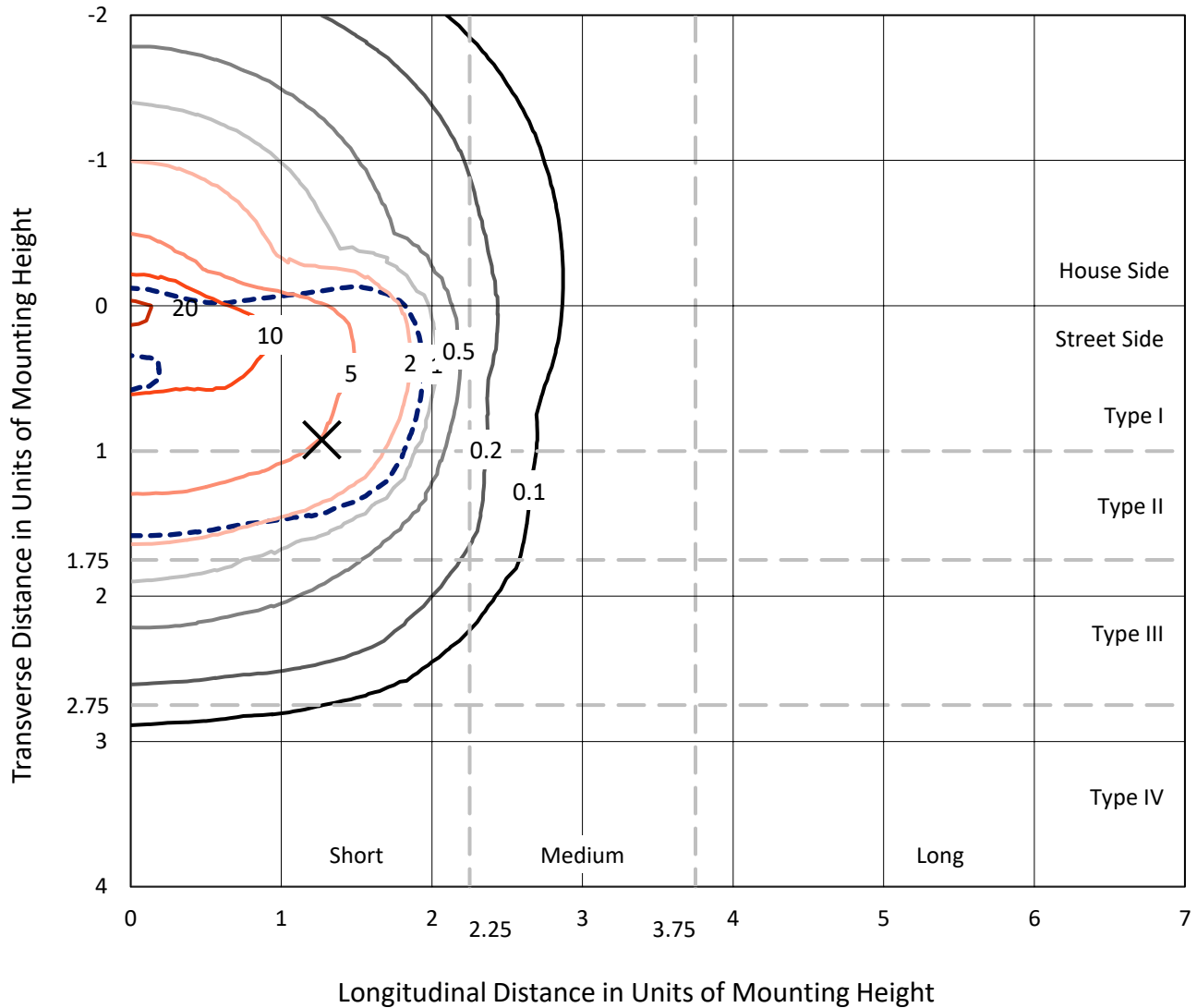
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

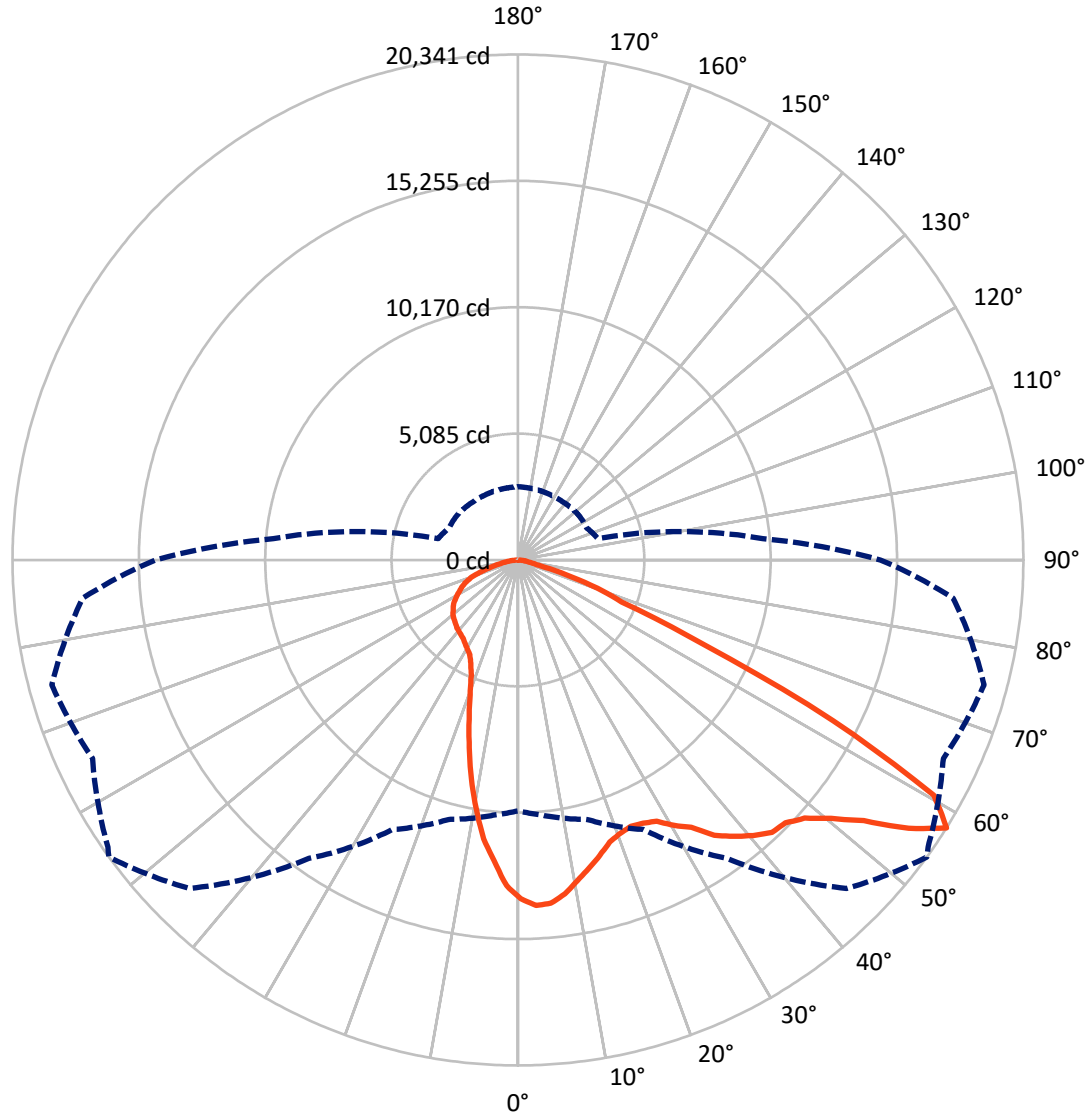
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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 | 9703.1 | 0.0 | 9703.1 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 25369.9 | 0.0 | 25369.9 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 35073.0 | 0.0 | 35073.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1175.7 | 3.4 |
| 10°-20° | 2722.1 | 7.8 |
| 20°-30° | 3824.6 | 10.9 |
| 30°-40° | 5346.8 | 15.2 |
| 40°-50° | 7238.6 | 20.6 |
| 50°-60° | 8816.9 | 25.1 |
| 60°-70° | 4592.2 | 13.1 |
| 70°-80° | 1176.7 | 3.4 |
| 80°-90° | 179.5 | 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° | 35073.0 | 100.0 |
| 0°-180° | 35073.0 | 100.0 |

Coefficient of Utilization



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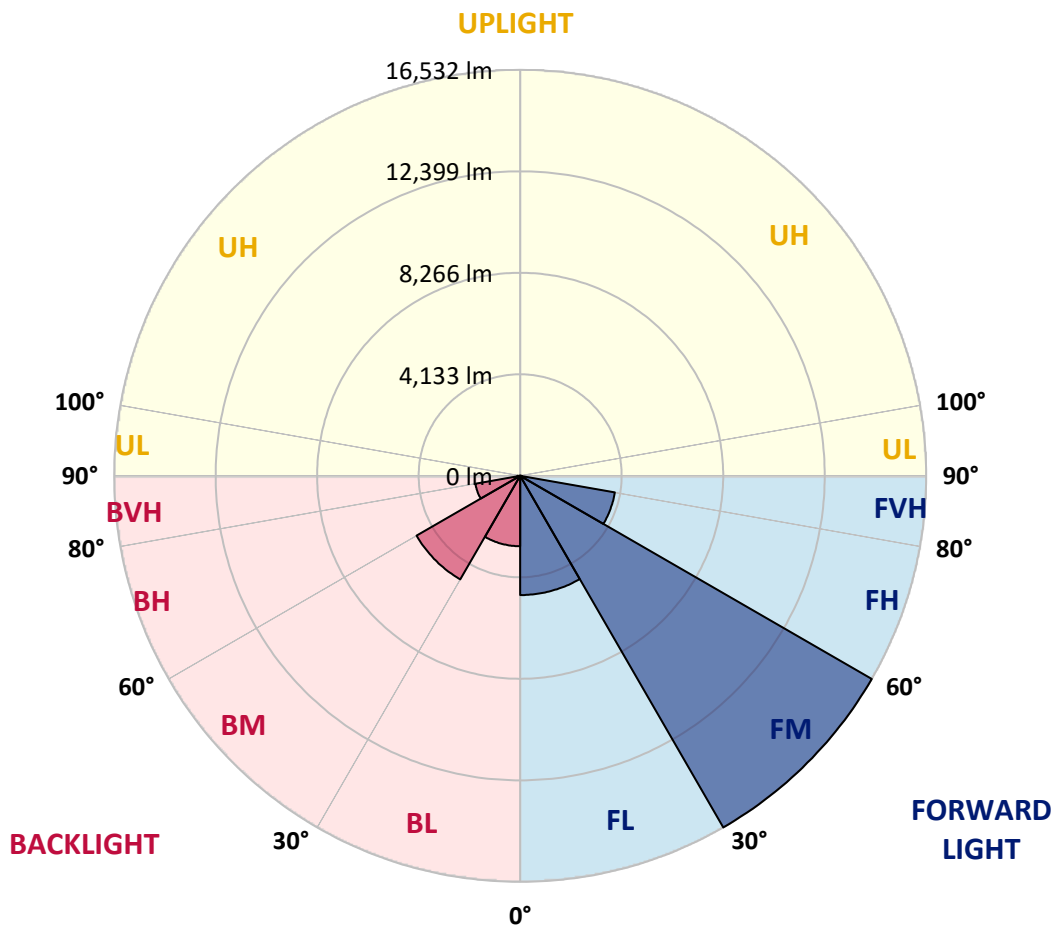
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4854.6 | 13.8 | | | |
| FM (30°-60°) | 16532.3 | 47.1 | | | |
| FH (60°-80°) | 3915.1 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 67.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2867.8 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 4869.9 | 13.9 | B3/5000 | | |
| BH (60°-80°) | 1853.8 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 111.7 | 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° | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 |
| 2.5° | 14020.2 | 13966.1 | 13975.1 | 14047.2 | 13957.1 | 13921.0 | 13921.0 | 13745.2 | 13758.7 | 13637.0 | 13605.4 |
| 5° | 13695.6 | 13569.4 | 13655.0 | 13763.2 | 13781.2 | 13817.3 | 13875.9 | 13830.8 | 13704.6 | 13573.9 | 13362.0 |
| 7.5° | 12848.1 | 12960.8 | 12992.3 | 13069.0 | 13231.3 | 13380.0 | 13564.9 | 13438.6 | 13434.1 | 13303.4 | 13177.2 |
| 10° | 12104.2 | 12036.6 | 12207.9 | 12320.6 | 12591.1 | 12839.0 | 13123.1 | 13109.5 | 13177.2 | 13028.4 | 12812.0 |
| 12.5° | 11364.9 | 11310.8 | 11392.0 | 11648.9 | 12027.6 | 12388.2 | 12726.3 | 12600.1 | 12960.8 | 12933.7 | 12469.4 |
| 15° | 10580.5 | 10621.1 | 10738.3 | 10977.2 | 11473.1 | 11905.9 | 12334.1 | 12338.7 | 12658.7 | 12766.9 | 12144.8 |
| 17.5° | 10030.5 | 9985.4 | 10134.2 | 10490.3 | 10932.1 | 11450.6 | 11937.4 | 12036.6 | 12528.0 | 12591.1 | 12045.6 |
| 20° | 9620.3 | 9683.4 | 9877.2 | 10057.6 | 10567.0 | 11193.6 | 11743.6 | 11779.6 | 12500.9 | 12672.2 | 11887.8 |
| 22.5° | 9521.1 | 9485.0 | 9548.1 | 9841.2 | 10260.4 | 10941.1 | 11639.9 | 11775.1 | 12496.4 | 12645.2 | 11590.3 |
| 25° | 9417.4 | 9534.6 | 9530.1 | 9823.1 | 10129.7 | 10738.3 | 11725.6 | 11874.3 | 12735.4 | 12785.0 | 11630.9 |
| 27.5° | 9651.8 | 9638.3 | 9764.5 | 9787.1 | 10165.7 | 10792.4 | 11905.9 | 12018.6 | 13132.1 | 13091.5 | 11662.4 |
| 30° | 9886.2 | 9818.6 | 9895.3 | 10161.2 | 10337.1 | 11103.4 | 12401.8 | 12392.7 | 13646.0 | 13618.9 | 11761.6 |
| 32.5° | 10174.8 | 10143.2 | 10192.8 | 10427.2 | 10724.8 | 11518.2 | 12821.0 | 13087.0 | 14168.9 | 14340.2 | 12104.2 |
| 35° | 10228.9 | 10359.6 | 10476.8 | 10792.4 | 11216.1 | 12189.9 | 13609.9 | 13830.8 | 14773.0 | 15309.5 | 12757.9 |
| 37.5° | 10571.5 | 10621.1 | 10896.1 | 11455.1 | 11842.8 | 13087.0 | 14110.3 | 14250.1 | 15323.0 | 15931.6 | 13447.6 |
| 40° | 10936.6 | 10995.2 | 11410.0 | 11996.0 | 12528.0 | 13673.0 | 14579.2 | 14624.3 | 15498.8 | 16409.5 | 13898.5 |
| 42.5° | 11432.5 | 11486.6 | 11896.9 | 12631.7 | 13344.0 | 14173.4 | 14993.9 | 15043.5 | 15485.3 | 16959.4 | 14615.2 |
| 45° | 11946.4 | 12077.2 | 12559.5 | 13393.5 | 14033.7 | 14759.5 | 15088.6 | 15291.5 | 15611.5 | 17450.8 | 15196.8 |
| 47.5° | 12667.7 | 12789.5 | 13186.2 | 14002.1 | 14750.5 | 15273.4 | 15525.9 | 15724.2 | 15913.6 | 17879.1 | 15571.0 |
| 50° | 13434.1 | 13456.7 | 13939.0 | 14678.4 | 15228.3 | 15855.0 | 16341.8 | 16409.5 | 16310.3 | 18375.0 | 16206.6 |
| 52.5° | 13997.6 | 14069.8 | 14443.9 | 15165.2 | 15985.7 | 16756.6 | 17423.8 | 17495.9 | 17302.1 | 18559.8 | 16423.0 |
| 55° | 13064.5 | 13023.9 | 13632.5 | 14592.7 | 16495.1 | 18100.0 | 19069.2 | 19123.3 | 18023.4 | 19132.3 | 17130.8 |
| 57.5° | 10098.1 | 10292.0 | 10810.4 | 11969.0 | 14655.8 | 18695.1 | 20340.5 | 20146.7 | 18888.9 | 19420.9 | 17581.6 |
| 60° | 7339.2 | 7294.1 | 7641.2 | 8416.6 | 11044.8 | 16111.9 | 19231.5 | 19429.9 | 18181.1 | 17504.9 | 14498.0 |
| 62.5° | 5977.7 | 5914.6 | 5941.7 | 5968.7 | 7127.3 | 10693.2 | 14236.6 | 14232.0 | 14002.1 | 12582.1 | 9778.1 |
| 65° | 4778.6 | 4927.3 | 4940.9 | 5143.7 | 5292.5 | 6388.0 | 8249.8 | 8691.6 | 7569.1 | 6207.6 | 4503.6 |
| 67.5° | 3602.0 | 3547.9 | 3728.2 | 4449.5 | 4729.0 | 4611.8 | 4503.6 | 4553.2 | 3236.8 | 2335.2 | 2199.9 |
| 70° | 2123.3 | 2100.8 | 2317.2 | 3101.6 | 3895.0 | 3665.1 | 3394.6 | 3399.1 | 2222.5 | 1631.9 | 1816.8 |
| 72.5° | 1163.1 | 1158.6 | 1203.7 | 1573.3 | 2213.5 | 2299.1 | 2037.7 | 2100.8 | 1325.4 | 1320.9 | 1420.0 |
| 75° | 649.2 | 635.6 | 622.1 | 694.2 | 797.9 | 843.0 | 861.0 | 870.1 | 910.6 | 1018.8 | 1059.4 |
| 77.5° | 238.9 | 229.9 | 229.9 | 266.0 | 338.1 | 423.8 | 536.5 | 545.5 | 644.7 | 739.3 | 779.9 |
| 80° | 81.1 | 90.2 | 121.7 | 166.8 | 225.4 | 302.0 | 365.2 | 374.2 | 455.3 | 518.4 | 532.0 |
| 82.5° | 49.6 | 54.1 | 81.1 | 117.2 | 162.3 | 211.9 | 270.5 | 275.0 | 338.1 | 378.7 | 396.7 |
| 85° | 22.5 | 27.0 | 45.1 | 72.1 | 103.7 | 139.8 | 144.3 | 144.3 | 139.8 | 144.3 | 135.2 |
| 87.5° | 0.0 | 0.0 | 9.0 | 9.0 | 9.0 | 13.5 | 18.0 | 13.5 | 22.5 | 27.0 | 27.0 |
| 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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CATALOG NUMBER: GALN-SA9A-740-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 | 13632.5 |
| 2.5° | 13510.8 | 13461.2 | 13307.9 | 13172.6 | 13132.1 | 12951.8 | 12685.8 | 12717.3 | 12523.5 | 12613.6 | 12519.0 |
| 5° | 13325.9 | 13159.1 | 12766.9 | 12600.1 | 12162.8 | 11964.5 | 11829.2 | 11491.1 | 11333.3 | 11301.8 | 11166.5 |
| 7.5° | 12852.6 | 12748.9 | 12257.5 | 11806.7 | 11342.4 | 10945.6 | 10436.2 | 10089.1 | 9841.2 | 9773.5 | 9575.2 |
| 10° | 12478.4 | 12248.5 | 11567.8 | 10882.5 | 10219.8 | 9530.1 | 8867.4 | 8349.0 | 8096.5 | 7803.5 | 7704.3 |
| 12.5° | 12108.7 | 11761.6 | 10842.0 | 9962.9 | 9106.3 | 8236.3 | 7433.8 | 6802.7 | 6252.7 | 6122.0 | 6076.9 |
| 15° | 11878.8 | 11274.7 | 10192.8 | 9133.4 | 7916.2 | 6780.2 | 5977.7 | 5563.0 | 5224.9 | 5085.1 | 5184.3 |
| 17.5° | 11576.8 | 10873.5 | 9570.7 | 8159.6 | 6820.7 | 5774.9 | 5103.2 | 4846.2 | 4724.5 | 4738.0 | 4697.4 |
| 20° | 11198.1 | 10494.8 | 8754.7 | 7276.1 | 5842.5 | 5008.5 | 4625.3 | 4530.6 | 4548.7 | 4580.2 | 4566.7 |
| 22.5° | 10927.6 | 10035.0 | 8164.2 | 6374.4 | 5049.1 | 4584.7 | 4426.9 | 4359.3 | 4417.9 | 4445.0 | 4422.4 |
| 25° | 10720.2 | 9642.8 | 7447.4 | 5576.5 | 4589.2 | 4345.8 | 4273.7 | 4269.2 | 4359.3 | 4395.4 | 4372.9 |
| 27.5° | 10530.9 | 9277.7 | 6735.1 | 4967.9 | 4282.7 | 4161.0 | 4138.4 | 4192.5 | 4251.1 | 4287.2 | 4318.8 |
| 30° | 10418.2 | 8998.2 | 6067.9 | 4458.5 | 4129.4 | 4070.8 | 4030.2 | 4079.8 | 4111.4 | 4147.4 | 4129.4 |
| 32.5° | 10526.4 | 8799.8 | 5423.2 | 4170.0 | 4003.2 | 3944.6 | 3998.7 | 3967.1 | 4021.2 | 4052.8 | 4003.2 |
| 35° | 10864.5 | 8624.0 | 4963.4 | 4016.7 | 3858.9 | 3881.5 | 3890.5 | 3877.0 | 3899.5 | 3872.5 | 3931.1 |
| 37.5° | 11198.1 | 8560.9 | 4539.6 | 3886.0 | 3791.3 | 3791.3 | 3782.3 | 3755.2 | 3800.3 | 3791.3 | 3818.4 |
| 40° | 11621.9 | 8601.4 | 4179.0 | 3746.2 | 3728.2 | 3719.2 | 3683.1 | 3678.6 | 3660.6 | 3665.1 | 3674.1 |
| 42.5° | 11991.5 | 8691.6 | 3971.6 | 3656.1 | 3669.6 | 3687.6 | 3620.0 | 3565.9 | 3588.4 | 3543.4 | 3543.4 |
| 45° | 12383.7 | 8772.7 | 3786.8 | 3593.0 | 3579.4 | 3574.9 | 3520.8 | 3489.3 | 3471.2 | 3475.7 | 3516.3 |
| 47.5° | 13001.3 | 8890.0 | 3647.0 | 3507.3 | 3516.3 | 3448.7 | 3435.2 | 3394.6 | 3412.6 | 3439.7 | 3444.2 |
| 50° | 13438.6 | 9137.9 | 3538.9 | 3408.1 | 3439.7 | 3394.6 | 3313.4 | 3295.4 | 3295.4 | 3340.5 | 3331.5 |
| 52.5° | 13745.2 | 9485.0 | 3435.2 | 3299.9 | 3313.4 | 3277.4 | 3250.3 | 3209.8 | 3182.7 | 3245.8 | 3277.4 |
| 55° | 14682.9 | 10062.1 | 3408.1 | 3209.8 | 3205.3 | 3169.2 | 3119.6 | 3079.0 | 3065.5 | 3074.5 | 3137.6 |
| 57.5° | 14592.7 | 9881.7 | 3322.5 | 3052.0 | 3043.0 | 2993.4 | 2943.8 | 2930.3 | 2925.8 | 2934.8 | 2952.8 |
| 60° | 11847.3 | 7298.6 | 2966.3 | 2871.7 | 2858.1 | 2849.1 | 2799.5 | 2745.4 | 2718.4 | 2745.4 | 2722.9 |
| 62.5° | 7839.6 | 4886.8 | 2614.7 | 2655.3 | 2664.3 | 2641.7 | 2560.6 | 2506.5 | 2515.5 | 2547.1 | 2497.5 |
| 65° | 3849.9 | 2871.7 | 2371.3 | 2479.5 | 2488.5 | 2425.4 | 2348.7 | 2285.6 | 2254.0 | 2281.1 | 2258.6 |
| 67.5° | 2199.9 | 2195.4 | 2172.9 | 2285.6 | 2281.1 | 2218.0 | 2096.3 | 2042.2 | 1988.1 | 1997.1 | 1983.6 |
| 70° | 1866.4 | 1902.4 | 1947.5 | 2015.1 | 2010.6 | 1938.5 | 1794.2 | 1753.6 | 1677.0 | 1668.0 | 1645.5 |
| 72.5° | 1469.6 | 1532.8 | 1631.9 | 1681.5 | 1640.9 | 1550.8 | 1456.1 | 1388.5 | 1320.9 | 1280.3 | 1293.8 |
| 75° | 1091.0 | 1181.1 | 1235.2 | 1266.8 | 1203.7 | 1154.1 | 1077.4 | 996.3 | 915.1 | 879.1 | 865.6 |
| 77.5° | 793.4 | 820.5 | 870.1 | 892.6 | 852.0 | 802.4 | 757.4 | 676.2 | 599.6 | 550.0 | 536.5 |
| 80° | 554.5 | 572.5 | 608.6 | 608.6 | 608.6 | 586.1 | 527.4 | 446.3 | 396.7 | 351.6 | 342.6 |
| 82.5° | 387.7 | 405.7 | 441.8 | 423.8 | 419.3 | 392.2 | 356.1 | 293.0 | 238.9 | 207.4 | 198.4 |
| 85° | 135.2 | 148.8 | 180.3 | 216.4 | 229.9 | 225.4 | 202.9 | 162.3 | 126.2 | 103.7 | 94.7 |
| 87.5° | 31.6 | 31.6 | 36.1 | 31.6 | 31.6 | 36.1 | 31.6 | 31.6 | 31.6 | 22.5 | 18.0 |
| 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)