

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: P532106

Luminaire Tested: **GALN-SA7C-722-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532106
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-SA7C-722-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 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: 30511 lumens
Efficiency: N/A
Efficacy: 80.9 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

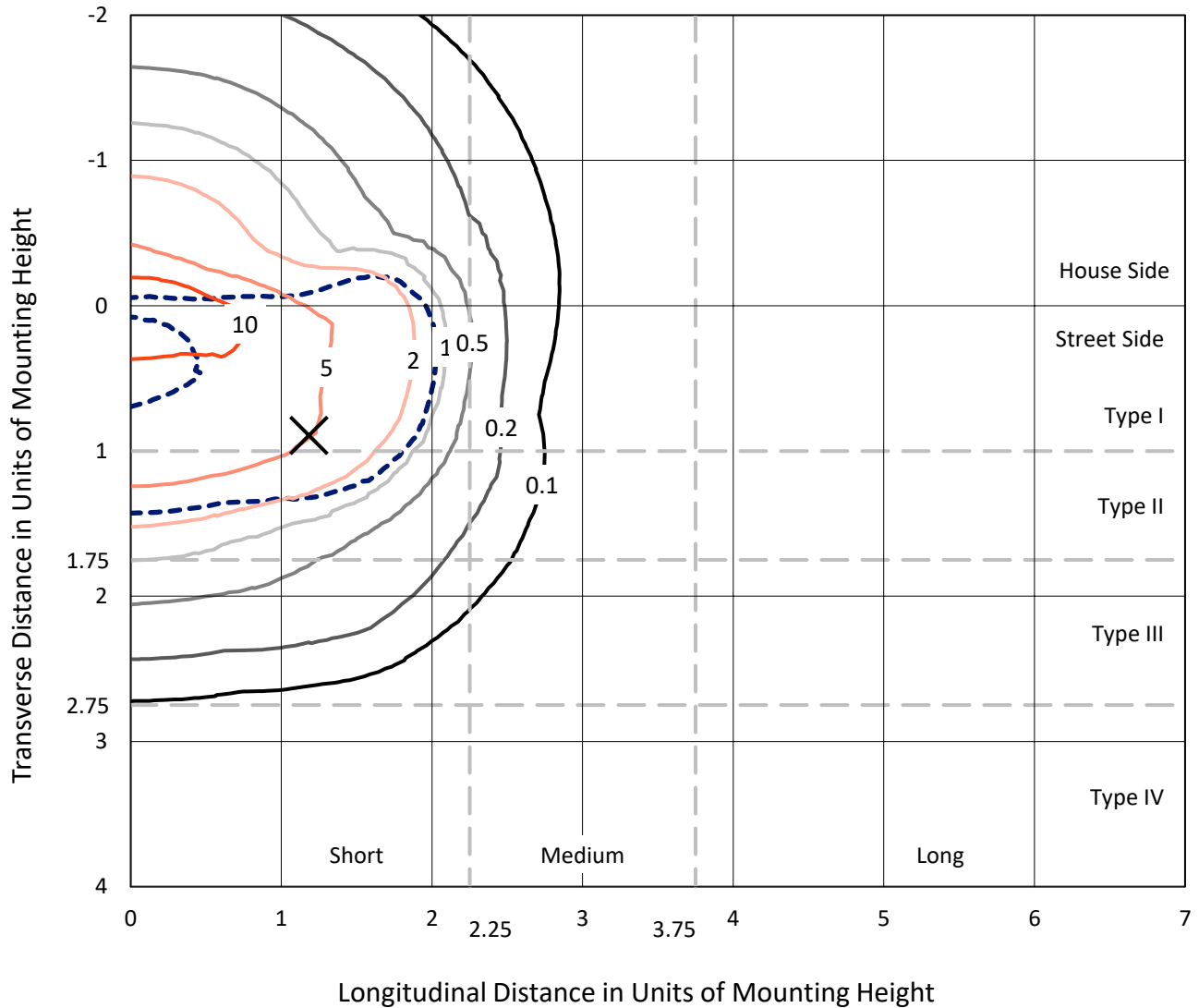
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

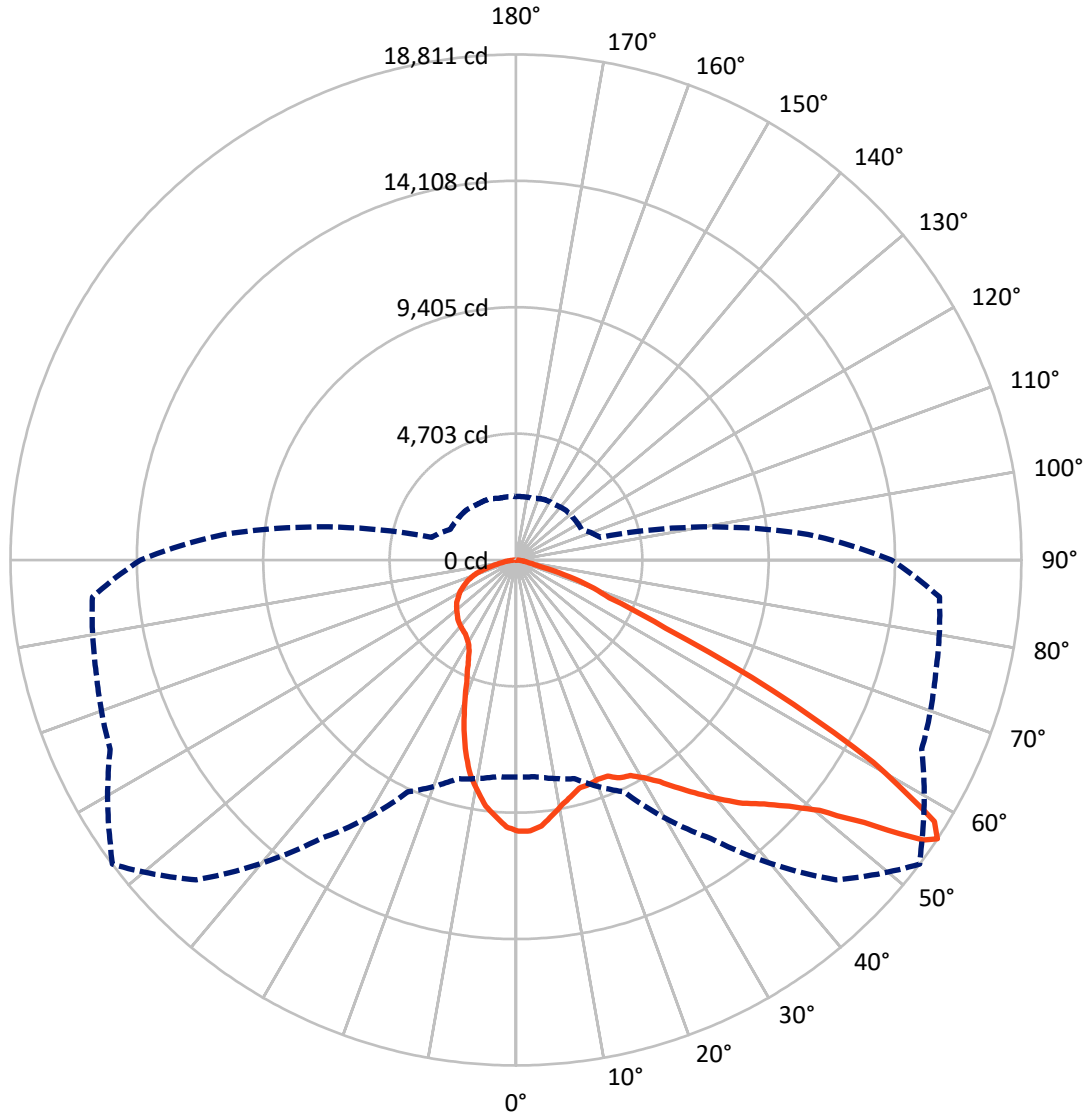
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8903.8 | 0.0 | 8903.8 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 21607.2 | 0.0 | 21607.2 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 30511.0 | 0.0 | 30511.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 893.6 | 2.9 |
| 10°-20° | 2231.9 | 7.3 |
| 20°-30° | 3291.1 | 10.8 |
| 30°-40° | 4702.4 | 15.4 |
| 40°-50° | 6472.2 | 21.2 |
| 50°-60° | 7648.4 | 25.1 |
| 60°-70° | 4076.1 | 13.4 |
| 70°-80° | 1034.1 | 3.4 |
| 80°-90° | 161.2 | 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° | 30511.0 | 100.0 |
| 0°-180° | 30511.0 | 100.0 |

Coefficient of Utilization

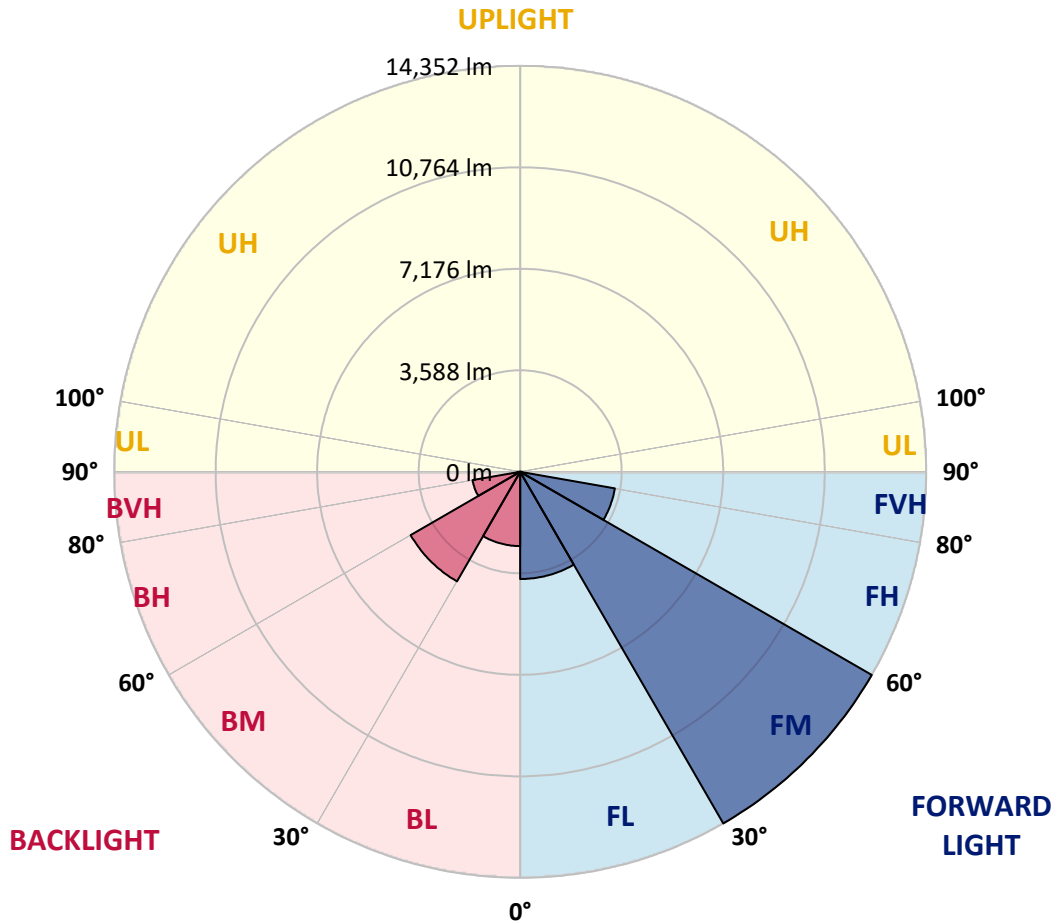


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3790.6 | 12.4 | | | |
| FM (30°-60°) | 14351.8 | 47.0 | | | |
| FH (60°-80°) | 3400.1 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 64.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2626.1 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 4471.2 | 14.7 | B3/5000 | | |
| BH (60°-80°) | 1710.1 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 96.4 | 0.3 | | | G1/100 |
| 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° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 |
| 2.5° | 9969.0 | 9882.9 | 9933.8 | 9914.2 | 10074.7 | 10121.6 | 10098.2 | 10117.7 | 10207.7 | 10164.7 | 10074.7 |
| 5° | 9315.4 | 9436.7 | 9460.2 | 9518.9 | 9612.8 | 9796.8 | 9941.6 | 9980.7 | 10023.8 | 10223.4 | 10203.8 |
| 7.5° | 8720.4 | 8802.6 | 8759.6 | 8931.8 | 9135.3 | 9432.8 | 9608.9 | 9640.2 | 10035.5 | 10145.1 | 10227.3 |
| 10° | 8344.7 | 8262.5 | 8458.2 | 8505.2 | 8736.1 | 9076.6 | 9288.0 | 9417.1 | 9777.2 | 10211.7 | 10262.5 |
| 12.5° | 7996.3 | 7968.9 | 8086.4 | 8219.4 | 8477.8 | 8830.0 | 9045.3 | 9096.2 | 9652.0 | 10109.9 | 10348.7 |
| 15° | 7738.0 | 7706.7 | 7824.1 | 7922.0 | 8223.3 | 8536.5 | 8810.4 | 8955.3 | 9515.0 | 10051.2 | 10274.3 |
| 17.5° | 7534.5 | 7530.6 | 7597.1 | 7773.2 | 8082.4 | 8344.7 | 8787.0 | 8794.8 | 9444.5 | 10141.2 | 10336.9 |
| 20° | 7522.7 | 7518.8 | 7530.6 | 7726.3 | 8008.1 | 8329.0 | 8712.6 | 8783.0 | 9444.5 | 10078.6 | 10340.8 |
| 22.5° | 7620.6 | 7558.0 | 7628.4 | 7753.7 | 7957.2 | 8356.4 | 8740.0 | 8896.6 | 9671.5 | 10387.8 | 10517.0 |
| 25° | 7777.1 | 7792.8 | 7831.9 | 7875.0 | 7992.4 | 8419.0 | 8982.7 | 9111.8 | 9937.7 | 10653.9 | 10759.6 |
| 27.5° | 8062.9 | 8055.0 | 8070.7 | 8094.2 | 8195.9 | 8477.8 | 9080.5 | 9413.2 | 10493.5 | 11127.5 | 11021.9 |
| 30° | 8481.7 | 8454.3 | 8516.9 | 8599.1 | 8505.2 | 8665.6 | 9405.4 | 9655.9 | 11010.1 | 11605.1 | 11315.4 |
| 32.5° | 8861.3 | 8963.1 | 9080.5 | 9115.7 | 9002.2 | 9033.5 | 9835.9 | 10090.3 | 11440.7 | 12192.2 | 11675.5 |
| 35° | 9334.9 | 9417.1 | 9573.7 | 9683.3 | 9663.7 | 9569.8 | 10423.0 | 10759.6 | 12063.0 | 12622.7 | 12055.2 |
| 37.5° | 9796.8 | 9894.6 | 10153.0 | 10477.8 | 10297.8 | 10254.7 | 11049.3 | 11327.2 | 12254.8 | 12853.6 | 12333.1 |
| 40° | 10540.4 | 10536.5 | 10982.7 | 11151.0 | 11311.5 | 11237.1 | 11699.0 | 11792.9 | 12356.5 | 12802.7 | 12340.9 |
| 42.5° | 11413.3 | 11358.5 | 11812.5 | 12074.7 | 12282.2 | 12290.0 | 12376.1 | 12344.8 | 12403.5 | 12544.4 | 12258.7 |
| 45° | 12243.0 | 12360.5 | 12818.4 | 13288.1 | 13495.5 | 13519.0 | 12947.6 | 12888.8 | 12485.7 | 12470.0 | 12102.1 |
| 47.5° | 13256.8 | 13284.2 | 13659.9 | 14278.3 | 14759.7 | 14595.4 | 13687.3 | 13558.1 | 12845.8 | 12967.1 | 12364.4 |
| 50° | 13315.5 | 13519.0 | 13855.6 | 14583.6 | 16063.1 | 16020.1 | 14646.2 | 14403.6 | 13425.1 | 13671.6 | 13096.3 |
| 52.5° | 12086.5 | 12039.5 | 12438.7 | 13628.6 | 15965.3 | 17436.9 | 16235.3 | 15656.1 | 14669.7 | 14481.9 | 14282.2 |
| 55° | 9209.7 | 9319.3 | 9671.5 | 10873.1 | 13863.4 | 17456.5 | 18399.8 | 17926.2 | 16000.5 | 15679.5 | 15448.6 |
| 56° | 8078.5 | 8094.2 | 8426.9 | 9522.8 | 12650.1 | 16834.2 | 18810.7 | 18427.2 | 16662.0 | 16172.7 | 15820.4 |
| 57.5° | 6696.9 | 6606.9 | 6779.1 | 7377.9 | 10677.4 | 15519.1 | 18360.6 | 18736.4 | 17436.9 | 16705.0 | 16215.8 |
| 60° | 5272.2 | 5252.6 | 5182.2 | 5291.7 | 6747.8 | 11691.2 | 15284.2 | 16129.7 | 17358.7 | 16204.0 | 15530.8 |
| 62.5° | 4305.4 | 4207.6 | 4348.5 | 4505.0 | 4689.0 | 7252.7 | 10740.1 | 11237.1 | 13781.2 | 12935.8 | 11667.7 |
| 65° | 3338.7 | 3291.7 | 3467.8 | 3976.6 | 4086.2 | 4606.8 | 6117.6 | 6501.2 | 8137.2 | 7992.4 | 7037.4 |
| 67.5° | 2297.5 | 2305.4 | 2458.0 | 3233.0 | 3788.8 | 3741.8 | 3745.7 | 3945.3 | 4246.7 | 3154.7 | 2747.6 |
| 70° | 1456.0 | 1452.1 | 1534.3 | 2082.3 | 3049.0 | 3080.3 | 2923.8 | 2865.1 | 2716.3 | 1643.9 | 1741.7 |
| 72.5° | 935.4 | 908.1 | 951.1 | 1150.7 | 1577.3 | 1823.9 | 1878.7 | 1914.0 | 1573.4 | 1291.6 | 1401.2 |
| 75° | 528.4 | 501.0 | 485.3 | 536.2 | 622.3 | 720.2 | 790.6 | 814.1 | 912.0 | 978.5 | 1037.2 |
| 77.5° | 160.5 | 144.8 | 176.1 | 234.8 | 309.2 | 414.9 | 504.9 | 520.6 | 614.5 | 692.8 | 751.5 |
| 80° | 70.5 | 78.3 | 109.6 | 156.6 | 219.2 | 293.6 | 356.2 | 379.7 | 442.3 | 501.0 | 516.6 |
| 82.5° | 43.1 | 47.0 | 74.4 | 105.7 | 152.6 | 207.4 | 254.4 | 262.2 | 324.9 | 371.8 | 383.6 |
| 85° | 15.7 | 19.6 | 39.1 | 62.6 | 97.9 | 133.1 | 133.1 | 144.8 | 133.1 | 133.1 | 144.8 |
| 87.5° | 0.0 | 0.0 | 3.9 | 7.8 | 7.8 | 11.7 | 15.7 | 15.7 | 19.6 | 23.5 | 27.4 |
| 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-SA7C-722-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 | 10094.2 |
| 2.5° | 10121.6 | 10102.1 | 10070.8 | 9957.3 | 9945.5 | 9910.3 | 9714.6 | 9683.3 | 9714.6 | 9620.6 | 9628.5 |
| 5° | 10102.1 | 10160.8 | 9925.9 | 9812.4 | 9601.1 | 9448.4 | 9272.3 | 9182.3 | 9021.8 | 8920.0 | 9033.5 |
| 7.5° | 10188.2 | 10164.7 | 9871.1 | 9624.6 | 9307.5 | 8920.0 | 8610.8 | 8434.7 | 8152.9 | 8074.6 | 8133.3 |
| 10° | 10156.9 | 10031.6 | 9687.2 | 9362.3 | 8763.5 | 8423.0 | 7922.0 | 7436.6 | 7170.5 | 7033.5 | 7013.9 |
| 12.5° | 10113.8 | 10078.6 | 9503.2 | 8943.5 | 8313.4 | 7597.1 | 6892.6 | 6434.6 | 6000.2 | 5812.3 | 5839.7 |
| 15° | 10164.7 | 9867.2 | 9158.8 | 8450.4 | 7612.8 | 6673.4 | 5914.1 | 5323.1 | 5021.7 | 4900.3 | 4900.3 |
| 17.5° | 10141.2 | 9765.5 | 8994.4 | 7898.5 | 6837.8 | 5726.2 | 4892.5 | 4536.3 | 4411.1 | 4411.1 | 4446.3 |
| 20° | 10153.0 | 9832.0 | 8661.7 | 7346.6 | 5921.9 | 4822.1 | 4215.4 | 4086.2 | 4141.0 | 4160.6 | 4180.2 |
| 22.5° | 10219.5 | 9612.8 | 8336.8 | 6739.9 | 5072.6 | 4125.4 | 3827.9 | 3831.8 | 3929.7 | 4035.3 | 4015.8 |
| 25° | 10301.7 | 9526.7 | 7941.5 | 6137.2 | 4422.8 | 3784.9 | 3690.9 | 3679.2 | 3753.5 | 3808.3 | 3816.2 |
| 27.5° | 10231.2 | 9378.0 | 7538.4 | 5385.7 | 3890.5 | 3557.8 | 3538.3 | 3546.1 | 3569.6 | 3679.2 | 3643.9 |
| 30° | 10462.2 | 9421.0 | 7033.5 | 4755.5 | 3597.0 | 3483.5 | 3460.0 | 3448.2 | 3483.5 | 3514.8 | 3487.4 |
| 32.5° | 10747.9 | 9268.4 | 6657.7 | 4148.9 | 3452.2 | 3428.7 | 3381.7 | 3366.1 | 3385.6 | 3354.3 | 3370.0 |
| 35° | 10873.1 | 9241.0 | 6168.5 | 3714.4 | 3338.7 | 3319.1 | 3291.7 | 3287.8 | 3291.7 | 3264.3 | 3240.8 |
| 37.5° | 10943.6 | 9370.1 | 5608.8 | 3514.8 | 3268.2 | 3287.8 | 3225.1 | 3217.3 | 3146.9 | 3162.5 | 3174.3 |
| 40° | 11064.9 | 9170.5 | 5154.8 | 3323.0 | 3225.1 | 3186.0 | 3131.2 | 3119.5 | 3072.5 | 3045.1 | 3072.5 |
| 42.5° | 10888.8 | 9111.8 | 4708.6 | 3240.8 | 3162.5 | 3119.5 | 3080.3 | 3013.8 | 2998.1 | 2974.7 | 2959.0 |
| 45° | 10747.9 | 8775.2 | 4309.3 | 3139.0 | 3088.2 | 3064.7 | 2990.3 | 2919.9 | 2861.1 | 2884.6 | 2849.4 |
| 47.5° | 10853.6 | 8657.8 | 3914.0 | 3052.9 | 2986.4 | 2959.0 | 2884.6 | 2829.8 | 2771.1 | 2743.7 | 2735.9 |
| 50° | 11276.3 | 8877.0 | 3581.3 | 2990.3 | 2900.3 | 2884.6 | 2786.8 | 2724.2 | 2669.4 | 2649.8 | 2657.6 |
| 52.5° | 12286.1 | 9475.8 | 3354.3 | 2861.1 | 2818.1 | 2747.6 | 2692.8 | 2614.6 | 2579.3 | 2516.7 | 2555.9 |
| 55° | 13566.0 | 10450.4 | 3295.6 | 2739.8 | 2716.3 | 2653.7 | 2579.3 | 2520.6 | 2454.1 | 2403.2 | 2391.5 |
| 56° | 13976.9 | 10916.2 | 3248.6 | 2692.8 | 2653.7 | 2618.5 | 2520.6 | 2485.4 | 2379.7 | 2368.0 | 2360.2 |
| 57.5° | 14309.6 | 11327.2 | 3256.5 | 2602.8 | 2563.7 | 2532.4 | 2473.7 | 2387.5 | 2317.1 | 2274.0 | 2293.6 |
| 60° | 13558.1 | 10603.1 | 3107.7 | 2465.8 | 2458.0 | 2399.3 | 2317.1 | 2278.0 | 2191.8 | 2141.0 | 2129.2 |
| 62.5° | 10078.6 | 7197.9 | 2520.6 | 2289.7 | 2285.8 | 2223.2 | 2129.2 | 2086.2 | 2070.5 | 2000.1 | 2000.1 |
| 65° | 5804.5 | 4512.9 | 2180.1 | 2144.9 | 2113.6 | 2050.9 | 1957.0 | 1921.8 | 1882.6 | 1859.2 | 1839.6 |
| 67.5° | 2477.6 | 2340.6 | 1980.5 | 1976.6 | 1941.4 | 1863.1 | 1769.1 | 1714.3 | 1663.5 | 1616.5 | 1640.0 |
| 70° | 1796.5 | 1823.9 | 1788.7 | 1769.1 | 1726.1 | 1628.2 | 1546.0 | 1479.5 | 1401.2 | 1369.9 | 1393.4 |
| 72.5° | 1424.7 | 1483.4 | 1534.3 | 1538.2 | 1487.3 | 1373.8 | 1283.8 | 1193.8 | 1107.7 | 1064.6 | 1084.2 |
| 75° | 1080.3 | 1119.4 | 1170.3 | 1182.0 | 1107.7 | 1029.4 | 943.3 | 849.3 | 782.8 | 731.9 | 739.7 |
| 77.5° | 778.9 | 771.1 | 818.0 | 810.2 | 775.0 | 720.2 | 641.9 | 555.8 | 481.4 | 434.5 | 438.4 |
| 80° | 532.3 | 544.0 | 571.4 | 567.5 | 524.5 | 489.3 | 430.5 | 360.1 | 305.3 | 266.2 | 258.3 |
| 82.5° | 371.8 | 391.4 | 414.9 | 395.3 | 360.1 | 324.9 | 281.8 | 230.9 | 187.9 | 156.6 | 148.7 |
| 85° | 133.1 | 152.6 | 176.1 | 187.9 | 199.6 | 191.8 | 160.5 | 129.2 | 93.9 | 78.3 | 74.4 |
| 87.5° | 27.4 | 31.3 | 35.2 | 35.2 | 35.2 | 31.3 | 27.4 | 27.4 | 23.5 | 11.7 | 11.7 |
| 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)