

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: STREETWORKS

Report Number: P533548

Luminaire Tested: **GLAN-SA9A-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29560 lumens
Efficiency: N/A
Efficacy: 107.9 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

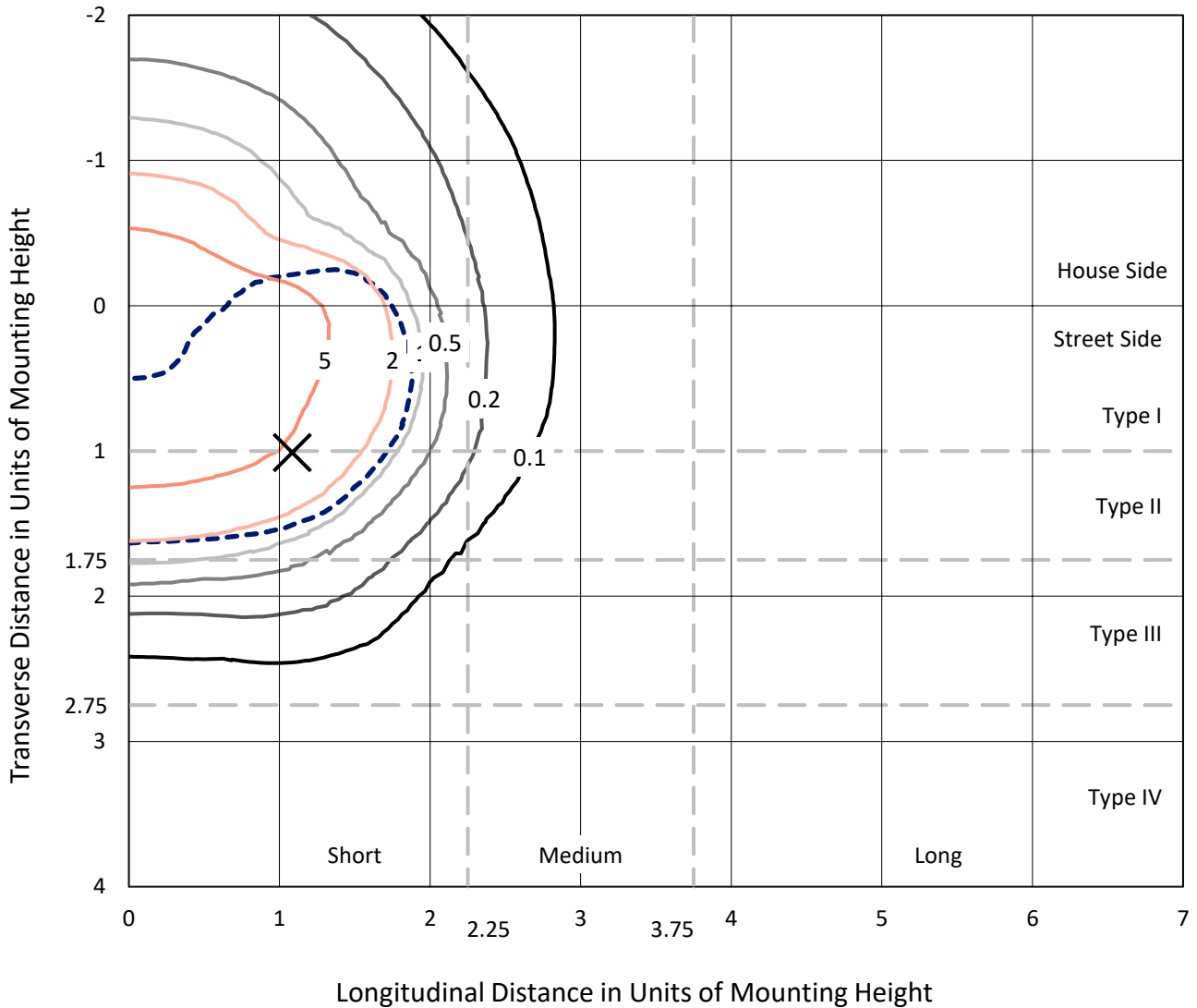
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

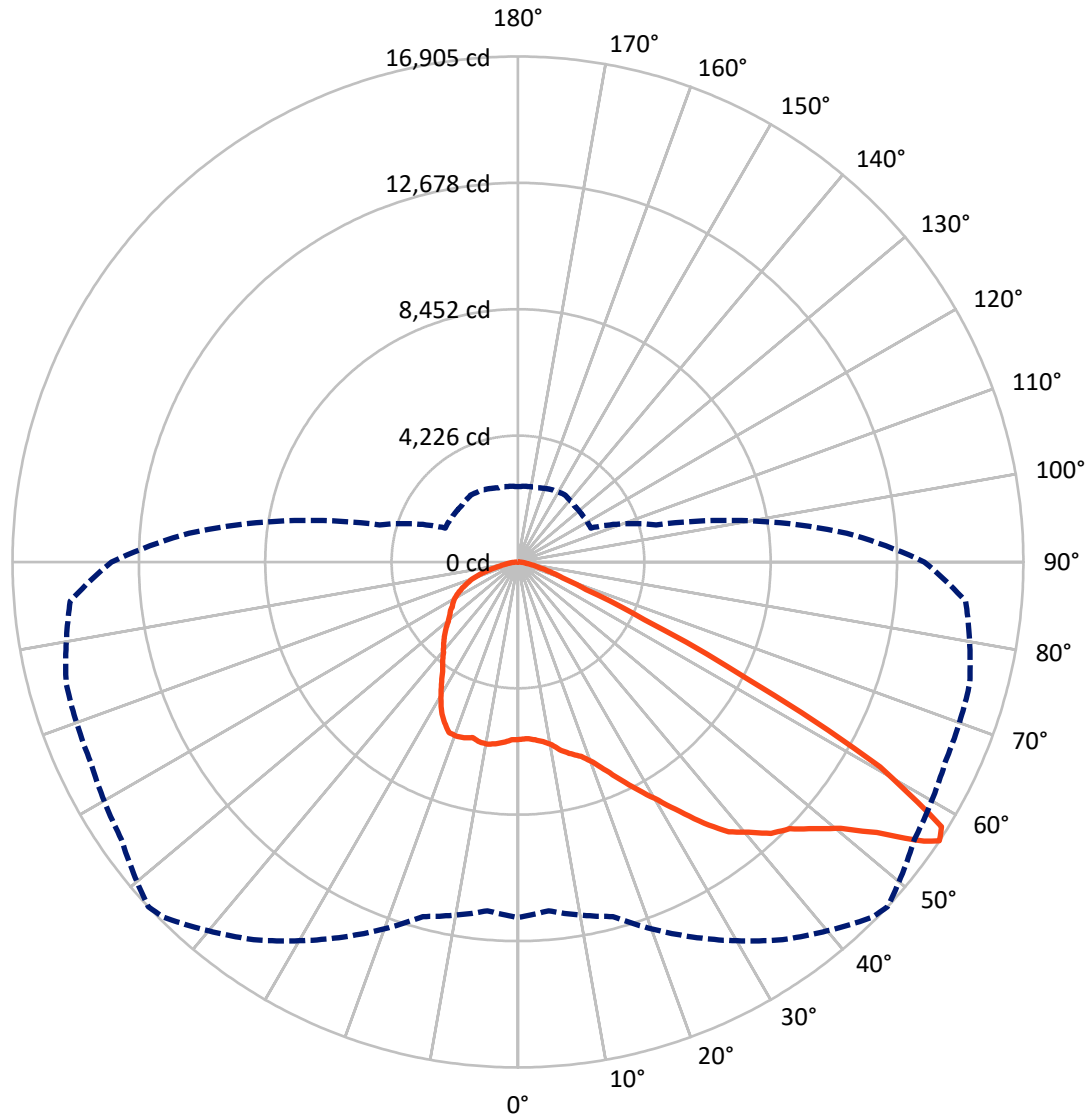
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9367.2 | 0.0 | 9367.2 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 20192.8 | 0.0 | 20192.8 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 29560.0 | 0.0 | 29560.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 578.6 | 2.0 |
| 10°-20° | 1825.0 | 6.2 |
| 20°-30° | 3226.2 | 10.9 |
| 30°-40° | 4845.7 | 16.4 |
| 40°-50° | 6650.2 | 22.5 |
| 50°-60° | 7922.8 | 26.8 |
| 60°-70° | 3390.5 | 11.5 |
| 70°-80° | 959.5 | 3.2 |
| 80°-90° | 161.5 | 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° | 29560.0 | 100.0 |
| 0°-180° | 29560.0 | 100.0 |

Coefficient of Utilization



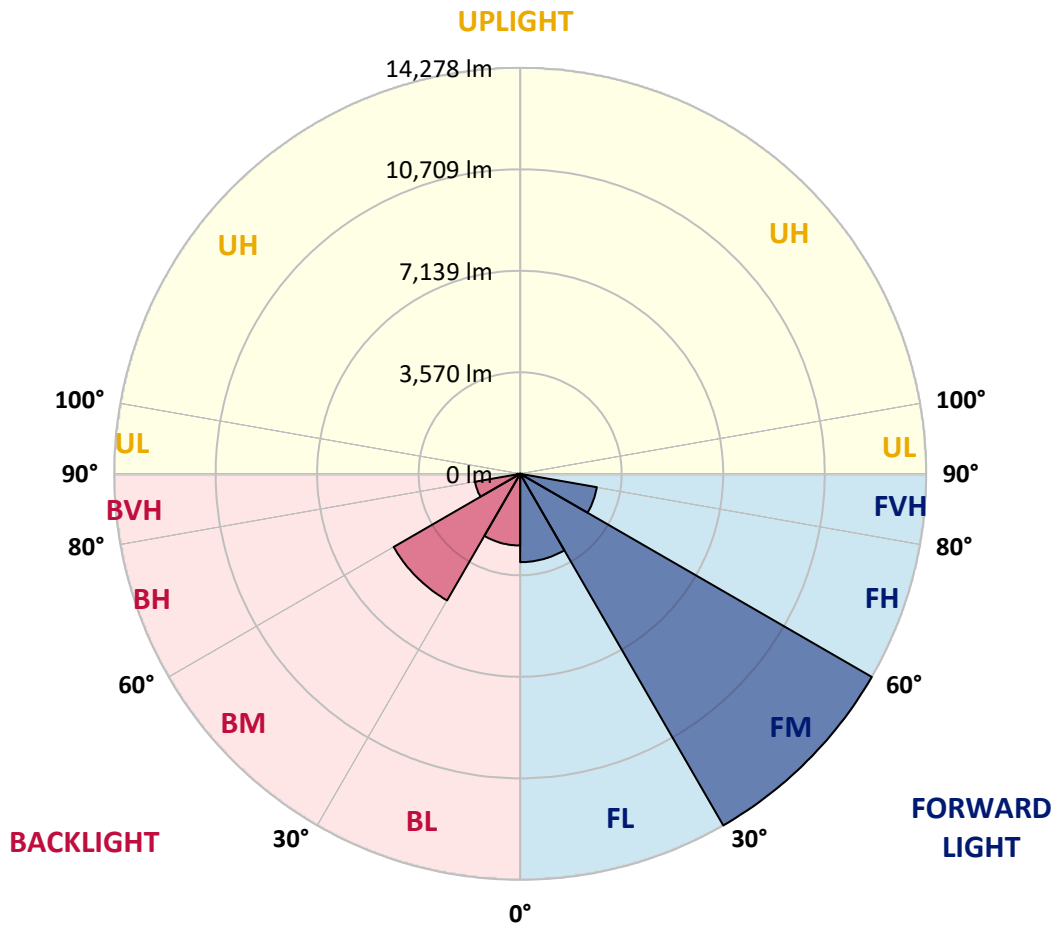
REPORT NUMBER: P533548
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3107.8 | 10.5 | | | |
| FM (30°-60°) | 14278.2 | 48.3 | | | |
| FH (60°-80°) | 2738.3 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 68.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2522.0 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 5140.6 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 1611.7 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 92.9 | 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° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 |
| 2.5° | 5915.1 | 5903.8 | 5896.2 | 5956.6 | 5933.9 | 5937.7 | 5915.1 | 5937.7 | 5952.8 | 5918.9 | 5967.9 |
| 5° | 5903.8 | 5937.7 | 5907.5 | 5926.4 | 5975.4 | 5960.3 | 5975.4 | 6020.6 | 6009.3 | 5998.0 | 5982.9 |
| 7.5° | 6009.3 | 6013.1 | 6035.7 | 6043.3 | 6058.3 | 6043.3 | 6065.9 | 6107.4 | 6096.0 | 6032.0 | 6039.5 |
| 10° | 6160.1 | 6167.7 | 6171.4 | 6212.9 | 6239.3 | 6243.1 | 6216.7 | 6179.0 | 6175.2 | 6261.9 | 6201.6 |
| 12.5° | 6333.6 | 6314.7 | 6359.9 | 6375.0 | 6405.2 | 6439.1 | 6473.0 | 6393.9 | 6442.9 | 6446.7 | 6375.0 |
| 15° | 6586.1 | 6605.0 | 6552.2 | 6552.2 | 6563.5 | 6567.3 | 6661.5 | 6623.8 | 6616.3 | 6574.8 | 6605.0 |
| 17.5° | 6963.1 | 6835.0 | 6831.2 | 6778.4 | 6770.9 | 6801.0 | 6835.0 | 6865.1 | 6966.9 | 6884.0 | 6721.9 |
| 20° | 7238.3 | 7268.5 | 7159.2 | 7095.1 | 7106.4 | 7174.3 | 7140.3 | 7276.0 | 7347.7 | 7212.0 | 7053.6 |
| 22.5° | 7724.7 | 7622.9 | 7649.3 | 7506.0 | 7517.3 | 7589.0 | 7585.2 | 7724.7 | 7766.1 | 7551.3 | 7321.3 |
| 25° | 8052.7 | 8026.3 | 8048.9 | 7935.8 | 7950.9 | 8007.4 | 8097.9 | 8327.9 | 8260.0 | 8022.5 | 7490.9 |
| 27.5° | 8531.4 | 8478.7 | 8459.8 | 8418.3 | 8403.3 | 8554.1 | 8659.6 | 8904.7 | 8855.7 | 8508.8 | 7792.5 |
| 30° | 9021.5 | 8987.6 | 9006.5 | 8836.8 | 8897.1 | 9217.6 | 9247.7 | 9583.3 | 9560.6 | 8949.9 | 8128.1 |
| 32.5° | 9360.8 | 9379.7 | 9413.6 | 9319.4 | 9587.0 | 9843.4 | 9945.2 | 10326.0 | 10344.8 | 9707.7 | 8776.5 |
| 35° | 9907.5 | 9843.4 | 9862.2 | 9971.6 | 10096.0 | 10563.5 | 10729.3 | 10981.9 | 11140.3 | 10503.1 | 9398.5 |
| 37.5° | 10250.6 | 10318.4 | 10239.2 | 10412.7 | 10736.9 | 11298.6 | 11449.4 | 11709.5 | 11875.4 | 11287.3 | 10246.8 |
| 40° | 10785.9 | 10676.6 | 10733.1 | 10857.5 | 11189.3 | 11920.7 | 11879.2 | 12146.8 | 12199.6 | 11954.6 | 11038.5 |
| 42.5° | 11362.7 | 11309.9 | 11230.7 | 11513.5 | 11792.5 | 12324.0 | 12407.0 | 12282.6 | 12550.2 | 12606.8 | 12169.5 |
| 45° | 12052.6 | 12116.7 | 12128.0 | 12135.5 | 12380.6 | 12844.3 | 12731.2 | 12621.9 | 12931.0 | 13341.9 | 12870.7 |
| 47.5° | 12693.5 | 12489.9 | 12636.9 | 12840.5 | 13187.4 | 13191.1 | 13323.1 | 13063.0 | 13390.9 | 13756.6 | 13504.0 |
| 50° | 12908.4 | 12810.4 | 13006.4 | 13390.9 | 13926.3 | 13982.8 | 13997.9 | 13628.4 | 13798.1 | 14088.4 | 13722.7 |
| 52.5° | 12825.4 | 12791.5 | 13292.9 | 13888.6 | 14672.7 | 14959.2 | 15034.6 | 14578.5 | 14672.7 | 14540.8 | 14205.3 |
| 55° | 12429.6 | 12531.4 | 13036.6 | 14250.5 | 15453.1 | 16339.1 | 16482.3 | 15905.5 | 15306.1 | 15407.9 | 15038.4 |
| 56° | 11886.7 | 11709.5 | 12275.0 | 13839.6 | 15419.2 | 16787.7 | 16904.6 | 16184.5 | 15777.3 | 15645.4 | 15030.9 |
| 57.5° | 10084.7 | 9854.7 | 10597.4 | 12452.2 | 14563.4 | 16618.0 | 16704.7 | 16301.4 | 15698.2 | 15430.5 | 13933.8 |
| 60° | 5903.8 | 6016.9 | 6959.4 | 8588.0 | 11234.5 | 13624.7 | 13915.0 | 14209.0 | 13805.6 | 12606.8 | 10371.2 |
| 62.5° | 2850.1 | 2778.5 | 3453.3 | 4923.6 | 6846.3 | 8697.3 | 8610.6 | 9436.2 | 9888.6 | 8957.5 | 6548.4 |
| 65° | 1492.9 | 1485.4 | 1885.0 | 2688.0 | 3762.4 | 4569.2 | 4648.4 | 5093.2 | 5715.3 | 4614.4 | 3325.1 |
| 67.5° | 1097.1 | 1127.2 | 1327.0 | 1888.8 | 2420.3 | 2469.3 | 2458.0 | 2680.5 | 2740.8 | 2318.5 | 2043.3 |
| 70° | 859.6 | 874.6 | 1021.7 | 1436.4 | 1802.0 | 1613.5 | 1579.6 | 1606.0 | 1783.2 | 1858.6 | 1768.1 |
| 72.5° | 622.0 | 637.1 | 761.5 | 968.9 | 1127.2 | 1100.8 | 1123.5 | 1270.5 | 1489.1 | 1568.3 | 1474.1 |
| 75° | 414.7 | 426.0 | 493.9 | 591.9 | 667.3 | 720.1 | 761.5 | 931.2 | 1134.8 | 1180.0 | 1134.8 |
| 77.5° | 286.5 | 297.8 | 343.1 | 418.5 | 426.0 | 459.9 | 475.0 | 554.2 | 678.6 | 735.1 | 705.0 |
| 80° | 162.1 | 162.1 | 184.7 | 214.9 | 263.9 | 309.1 | 316.7 | 380.8 | 437.3 | 475.0 | 482.6 |
| 82.5° | 75.4 | 79.2 | 98.0 | 131.9 | 173.4 | 214.9 | 222.4 | 263.9 | 305.4 | 343.1 | 354.4 |
| 85° | 37.7 | 41.5 | 56.5 | 79.2 | 105.6 | 128.2 | 124.4 | 128.2 | 135.7 | 128.2 | 131.9 |
| 87.5° | 11.3 | 11.3 | 15.1 | 18.8 | 15.1 | 18.8 | 18.8 | 22.6 | 26.4 | 30.2 | 33.9 |
| 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: P533548

CATALOG NUMBER: GLAN-SA9A-727-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 | 5937.7 |
| 2.5° | 5971.6 | 5982.9 | 5907.5 | 5979.2 | 5952.8 | 5949.0 | 6001.8 | 5994.3 | 6013.1 | 6005.6 | 5960.3 |
| 5° | 5975.4 | 5949.0 | 6028.2 | 5956.6 | 5990.5 | 6062.1 | 6013.1 | 6126.2 | 6069.7 | 6107.4 | 6024.4 |
| 7.5° | 6092.3 | 6099.8 | 6084.7 | 6114.9 | 6099.8 | 6133.7 | 6107.4 | 6133.7 | 6088.5 | 6092.3 | 6167.7 |
| 10° | 6194.1 | 6171.4 | 6197.8 | 6160.1 | 6186.5 | 6175.2 | 6114.9 | 6096.0 | 6111.1 | 6092.3 | 6141.3 |
| 12.5° | 6382.6 | 6341.1 | 6322.2 | 6277.0 | 6246.8 | 6133.7 | 6039.5 | 5986.7 | 6058.3 | 6069.7 | 6047.0 |
| 15° | 6574.8 | 6578.6 | 6491.9 | 6390.1 | 6201.6 | 6032.0 | 6054.6 | 6073.4 | 6073.4 | 6103.6 | 6047.0 |
| 17.5° | 6695.5 | 6695.5 | 6616.3 | 6412.7 | 6220.5 | 6122.4 | 6099.8 | 6039.5 | 5986.7 | 5979.2 | 5975.4 |
| 20° | 6906.6 | 6842.5 | 6661.5 | 6409.0 | 6212.9 | 6167.7 | 5998.0 | 5854.8 | 5745.4 | 5707.7 | 5704.0 |
| 22.5° | 7147.9 | 6985.8 | 6733.2 | 6416.5 | 6201.6 | 6137.5 | 5820.8 | 5605.9 | 5409.9 | 5327.0 | 5338.3 |
| 25° | 7370.3 | 7110.2 | 6774.6 | 6382.6 | 6160.1 | 5851.0 | 5496.6 | 5198.8 | 4995.2 | 4927.4 | 4893.4 |
| 27.5° | 7524.9 | 7242.1 | 6774.6 | 6412.7 | 6005.6 | 5530.5 | 5168.6 | 4787.9 | 4610.7 | 4565.4 | 4573.0 |
| 30° | 7732.2 | 7408.0 | 6891.5 | 6348.6 | 5696.4 | 5115.9 | 4682.3 | 4433.5 | 4327.9 | 4290.2 | 4316.6 |
| 32.5° | 8218.5 | 7841.5 | 7053.6 | 6194.1 | 5330.7 | 4701.2 | 4350.5 | 4211.1 | 4056.5 | 3981.1 | 3954.7 |
| 35° | 8746.3 | 8252.5 | 7212.0 | 5933.9 | 4919.8 | 4324.2 | 4105.5 | 3977.3 | 3792.6 | 3709.7 | 3724.7 |
| 37.5° | 9492.8 | 8780.3 | 7223.3 | 5504.2 | 4475.0 | 4113.0 | 3913.2 | 3713.4 | 3562.6 | 3434.4 | 3396.7 |
| 40° | 10499.4 | 9500.3 | 7196.9 | 5051.8 | 4116.8 | 3864.2 | 3717.2 | 3468.4 | 3298.7 | 3208.2 | 3227.1 |
| 42.5° | 11385.3 | 10344.8 | 7087.5 | 4539.0 | 3792.6 | 3694.6 | 3528.7 | 3283.6 | 3117.8 | 3023.5 | 3016.0 |
| 45° | 12131.8 | 10966.8 | 6880.2 | 4101.7 | 3521.2 | 3506.1 | 3313.8 | 3125.3 | 2993.4 | 2906.6 | 2944.3 |
| 47.5° | 12821.7 | 11468.3 | 6567.3 | 3664.4 | 3272.3 | 3302.5 | 3117.8 | 3000.9 | 2918.0 | 2838.8 | 2835.0 |
| 50° | 13070.5 | 11460.7 | 6292.1 | 3302.5 | 3072.5 | 3057.4 | 3049.9 | 2925.5 | 2838.8 | 2770.9 | 2801.1 |
| 52.5° | 13485.2 | 11588.9 | 5994.3 | 3053.7 | 2891.6 | 2895.3 | 2921.7 | 2831.2 | 2733.2 | 2691.8 | 2729.5 |
| 55° | 14080.8 | 11607.7 | 5338.3 | 2763.4 | 2740.8 | 2767.2 | 2767.2 | 2706.8 | 2623.9 | 2590.0 | 2571.1 |
| 56° | 13594.5 | 11046.0 | 4787.9 | 2688.0 | 2665.4 | 2665.4 | 2737.0 | 2669.1 | 2567.4 | 2541.0 | 2518.3 |
| 57.5° | 12538.9 | 9677.5 | 4007.5 | 2597.5 | 2563.6 | 2616.4 | 2654.1 | 2582.4 | 2488.2 | 2450.5 | 2473.1 |
| 60° | 8648.3 | 6548.4 | 3012.2 | 2401.5 | 2401.5 | 2488.2 | 2518.3 | 2412.8 | 2371.3 | 2367.5 | 2337.4 |
| 62.5° | 5048.0 | 3815.2 | 2356.2 | 2224.3 | 2231.8 | 2303.5 | 2326.1 | 2265.8 | 2213.0 | 2277.1 | 2307.2 |
| 65° | 2676.7 | 2277.1 | 2020.7 | 2035.8 | 2039.6 | 2096.1 | 2194.1 | 2190.4 | 2186.6 | 2205.4 | 2209.2 |
| 67.5° | 1937.8 | 1892.5 | 1836.0 | 1820.9 | 1828.4 | 1869.9 | 1967.9 | 2043.3 | 2039.6 | 1994.3 | 1960.4 |
| 70° | 1726.6 | 1662.6 | 1628.6 | 1632.4 | 1602.2 | 1651.2 | 1730.4 | 1779.4 | 1692.7 | 1639.9 | 1617.3 |
| 72.5° | 1436.4 | 1417.5 | 1394.9 | 1398.7 | 1338.3 | 1327.0 | 1236.6 | 1236.6 | 1213.9 | 1198.9 | 1225.2 |
| 75° | 1097.1 | 1089.5 | 1100.8 | 1082.0 | 1017.9 | 950.0 | 897.3 | 848.2 | 772.8 | 742.7 | 727.6 |
| 77.5° | 693.7 | 716.3 | 742.7 | 701.2 | 674.8 | 625.8 | 573.0 | 524.0 | 463.7 | 429.8 | 429.8 |
| 80° | 471.2 | 490.1 | 508.9 | 501.4 | 471.2 | 426.0 | 384.5 | 331.8 | 290.3 | 263.9 | 260.1 |
| 82.5° | 358.1 | 373.2 | 399.6 | 369.5 | 339.3 | 301.6 | 267.7 | 230.0 | 192.3 | 162.1 | 162.1 |
| 85° | 128.2 | 147.0 | 162.1 | 177.2 | 188.5 | 192.3 | 165.9 | 135.7 | 109.3 | 86.7 | 82.9 |
| 87.5° | 33.9 | 37.7 | 41.5 | 37.7 | 37.7 | 37.7 | 41.5 | 37.7 | 33.9 | 26.4 | 26.4 |
| 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)