

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: P534343

Luminaire Tested: **GLAN-SA9D-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534343
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: STREETWORKS
Catalog Number: GLAN-SA9D-750-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA 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: 41013 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

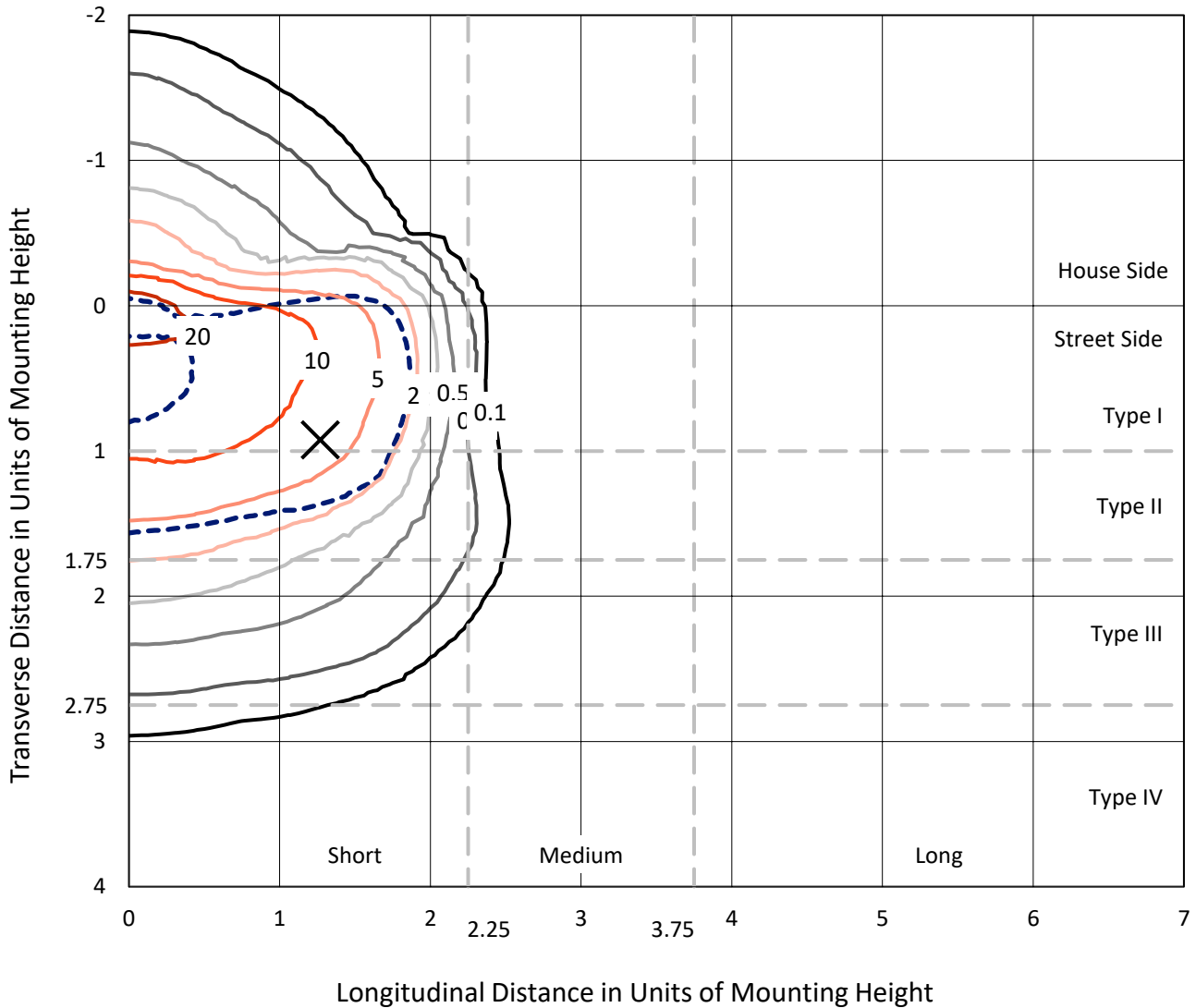
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

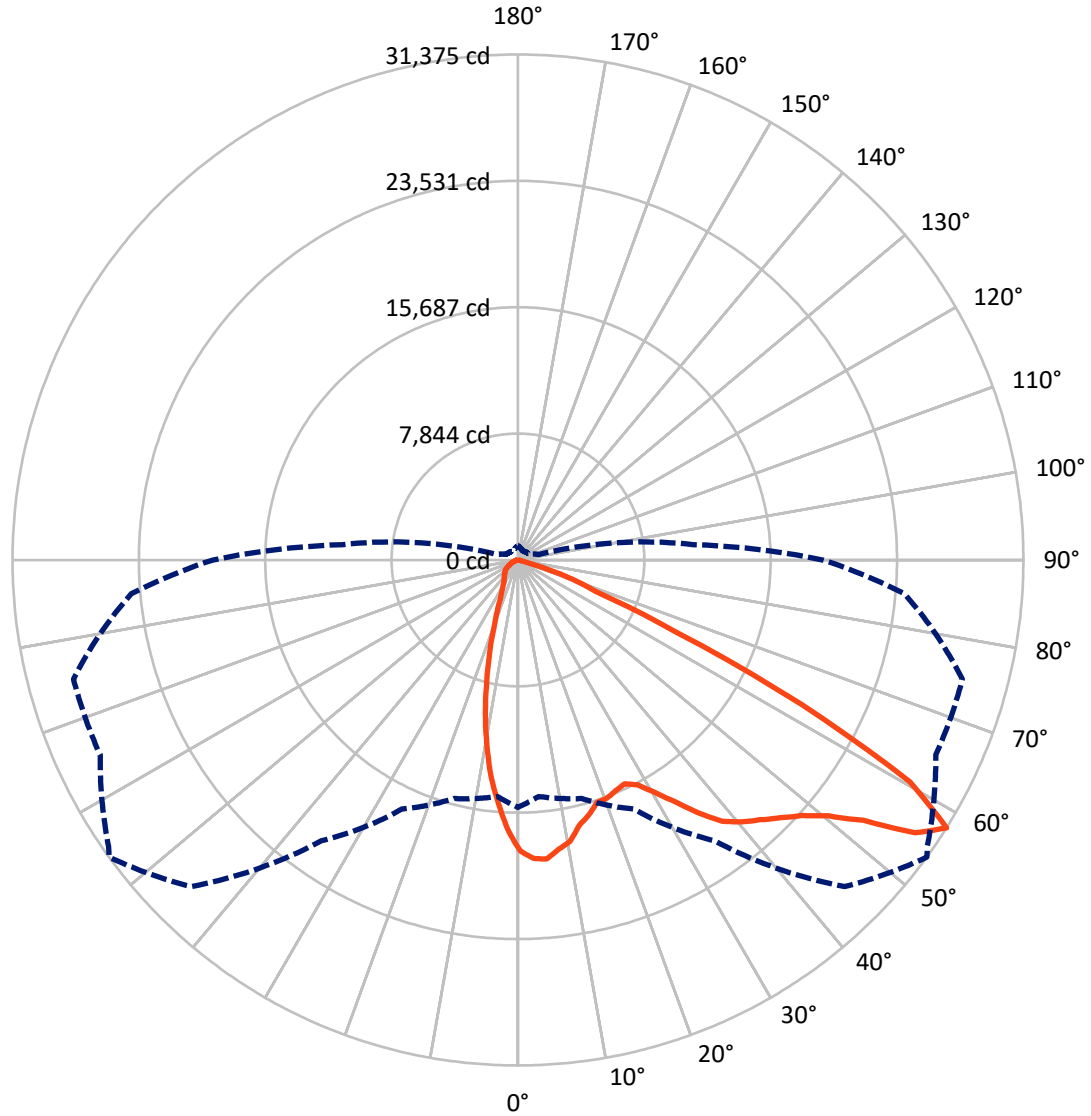
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.9 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 | 5795.8 | 0.0 | 5795.8 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 35217.2 | 0.0 | 35217.2 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 41013.0 | 0.0 | 41013.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1511.9 | 3.7 |
| 10°-20° | 3227.8 | 7.9 |
| 20°-30° | 4277.5 | 10.4 |
| 30°-40° | 6216.4 | 15.2 |
| 40°-50° | 9218.0 | 22.5 |
| 50°-60° | 11526.8 | 28.1 |
| 60°-70° | 4546.8 | 11.1 |
| 70°-80° | 452.7 | 1.1 |
| 80°-90° | 35.2 | 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° | 41013.0 | 100.0 |
| 0°-180° | 41013.0 | 100.0 |

Coefficient of Utilization



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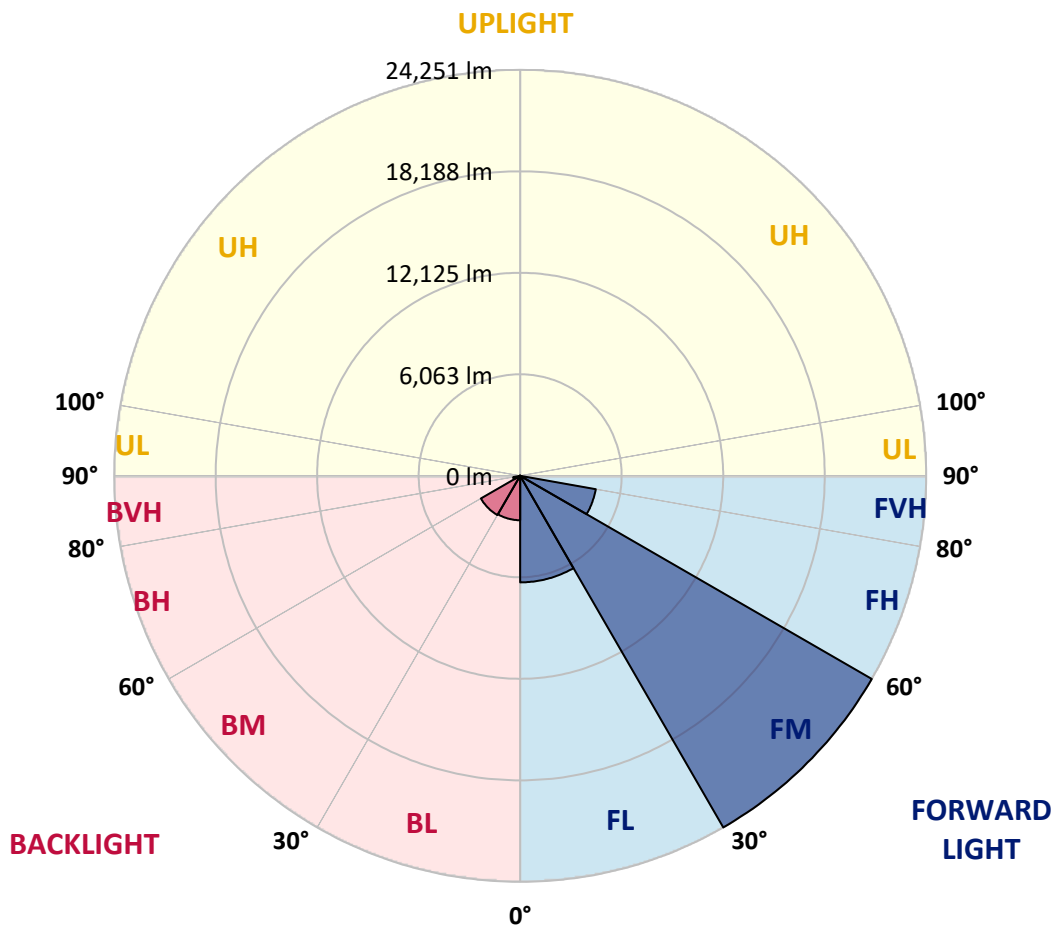
CATALOG NUMBER: GLAN-SA9D-750-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6366.4 | 15.5 | | | |
| FM (30°-60°) | 24250.9 | 59.1 | | | |
| FH (60°-80°) | 4583.9 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 16.0 | 0.0 | | | G1/100 |
| BL (0°-30°) | 2650.7 | 6.5 | B4/5000 | | |
| BM (30°-60°) | 2710.3 | 6.6 | B3/5000 | | |
| BH (60°-80°) | 415.6 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.2 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 |
| 2.5° | 19119.2 | 18920.9 | 18936.2 | 18867.5 | 18776.0 | 18844.7 | 18547.2 | 18615.9 | 18608.2 | 18204.1 | 17937.1 |
| 5° | 18638.8 | 18852.3 | 18631.1 | 18814.2 | 18638.8 | 18829.4 | 18646.4 | 18509.1 | 18287.9 | 17990.5 | 17494.8 |
| 7.5° | 17822.7 | 17616.8 | 17677.8 | 17906.6 | 17944.8 | 18371.8 | 18143.0 | 18318.4 | 18226.9 | 17639.7 | 16961.0 |
| 10° | 16183.1 | 16137.3 | 16442.4 | 16747.4 | 17121.1 | 17578.7 | 17754.1 | 17655.0 | 17586.3 | 17365.2 | 16457.6 |
| 12.5° | 14924.7 | 15054.4 | 15046.8 | 15550.1 | 16183.1 | 16442.4 | 16899.9 | 16884.7 | 17266.0 | 16854.2 | 15984.8 |
| 15° | 13727.4 | 13796.0 | 14116.3 | 14429.0 | 15130.6 | 15870.4 | 16434.7 | 16511.0 | 16968.6 | 16678.8 | 15618.7 |
| 17.5° | 12995.3 | 12896.1 | 13147.8 | 13521.5 | 14238.4 | 15206.9 | 15832.3 | 16015.3 | 16640.7 | 16579.6 | 15199.3 |
| 20° | 12270.8 | 12270.8 | 12476.7 | 12919.0 | 13574.9 | 14665.4 | 15778.9 | 15725.5 | 16640.7 | 16465.2 | 14749.3 |
| 22.5° | 12026.7 | 12148.7 | 12202.1 | 12537.7 | 13315.6 | 14253.6 | 15550.1 | 15649.2 | 16770.3 | 16411.9 | 14551.0 |
| 25° | 12362.3 | 12202.1 | 12217.4 | 12484.3 | 13216.4 | 14055.3 | 15382.3 | 15603.5 | 17006.7 | 16678.8 | 14390.9 |
| 27.5° | 12415.7 | 12575.8 | 12621.6 | 12804.6 | 13292.7 | 14116.3 | 15801.8 | 16251.7 | 17593.9 | 17304.1 | 14436.6 |
| 30° | 12880.9 | 13041.0 | 13033.4 | 13346.1 | 13681.6 | 14612.1 | 16739.8 | 16831.3 | 18806.5 | 18089.7 | 14718.8 |
| 32.5° | 13445.2 | 13613.0 | 13666.4 | 14032.4 | 14299.4 | 15519.6 | 17883.7 | 18120.2 | 19973.4 | 19325.1 | 15458.6 |
| 35° | 14146.8 | 14085.8 | 14329.9 | 14695.9 | 15267.9 | 16846.6 | 19279.4 | 19675.9 | 21231.7 | 20926.7 | 16221.2 |
| 37.5° | 15023.9 | 14947.6 | 15184.0 | 15778.9 | 16556.8 | 18417.6 | 20568.2 | 20827.5 | 22146.9 | 22413.8 | 17632.1 |
| 40° | 15641.6 | 15672.1 | 16389.0 | 17189.8 | 18013.4 | 19912.4 | 21384.2 | 21635.9 | 22787.5 | 23801.8 | 18699.8 |
| 42.5° | 16671.2 | 16861.8 | 17723.6 | 18699.8 | 19561.5 | 21033.4 | 22047.7 | 22291.8 | 23084.9 | 24915.2 | 20141.1 |
| 45° | 18165.9 | 18082.0 | 19035.3 | 20125.9 | 21079.2 | 22200.3 | 22833.2 | 22749.3 | 23260.3 | 26021.0 | 21048.7 |
| 47.5° | 20087.8 | 20103.0 | 20736.0 | 21666.4 | 22657.8 | 23214.6 | 23710.3 | 23412.8 | 23626.4 | 27187.9 | 22261.3 |
| 50° | 21399.5 | 21513.9 | 22024.8 | 22978.1 | 23473.8 | 24328.0 | 24961.0 | 24778.0 | 24709.3 | 27889.5 | 23023.9 |
| 52.5° | 21735.0 | 22078.2 | 22352.8 | 23542.5 | 24701.7 | 26051.5 | 26859.9 | 27248.9 | 26028.7 | 28125.9 | 23992.4 |
| 55° | 19203.1 | 19508.2 | 20476.7 | 22108.7 | 25166.9 | 28781.8 | 29895.2 | 29902.8 | 27752.2 | 29178.3 | 24671.2 |
| 57.5° | 15351.8 | 14734.1 | 15328.9 | 17060.1 | 21277.5 | 28667.4 | 31374.7 | 31016.3 | 28614.0 | 28560.6 | 24084.0 |
| 60° | 10615.9 | 10463.3 | 10501.5 | 11187.8 | 14726.4 | 22802.7 | 27958.1 | 28423.3 | 26349.0 | 24755.1 | 19065.8 |
| 62.5° | 8411.8 | 8282.2 | 8114.4 | 8038.2 | 9144.0 | 14207.9 | 19721.7 | 20377.6 | 18425.2 | 16053.4 | 11302.2 |
| 65° | 6589.2 | 6512.9 | 6535.8 | 6840.8 | 6833.2 | 8061.0 | 10783.6 | 10516.7 | 8419.5 | 6223.1 | 3553.9 |
| 67.5° | 4446.2 | 4560.5 | 4652.1 | 5574.8 | 6047.7 | 5613.0 | 5208.8 | 5056.3 | 2737.9 | 1151.6 | 785.5 |
| 70° | 2501.4 | 2516.7 | 2615.8 | 3485.2 | 4591.1 | 4354.6 | 3592.0 | 3592.0 | 1365.1 | 419.4 | 450.0 |
| 72.5° | 1365.1 | 1319.4 | 1227.8 | 1502.4 | 2043.9 | 2074.4 | 1601.5 | 1395.6 | 404.2 | 274.5 | 251.7 |
| 75° | 663.5 | 655.9 | 564.3 | 465.2 | 442.3 | 366.1 | 282.2 | 259.3 | 183.0 | 175.4 | 152.5 |
| 77.5° | 137.3 | 129.6 | 68.6 | 68.6 | 76.3 | 83.9 | 106.8 | 106.8 | 129.6 | 129.6 | 106.8 |
| 80° | 0.0 | 0.0 | 7.6 | 30.5 | 53.4 | 76.3 | 91.5 | 91.5 | 106.8 | 106.8 | 83.9 |
| 82.5° | 0.0 | 0.0 | 7.6 | 22.9 | 45.8 | 68.6 | 83.9 | 91.5 | 106.8 | 114.4 | 91.5 |
| 85° | 0.0 | 0.0 | 0.0 | 15.3 | 38.1 | 53.4 | 45.8 | 45.8 | 38.1 | 30.5 | 15.3 |
| 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° | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 | 18066.8 |
| 2.5° | 17799.9 | 17784.6 | 17433.8 | 17235.5 | 16877.1 | 16564.4 | 16312.7 | 16129.7 | 16129.7 | 16015.3 | 15908.5 |
| 5° | 17296.5 | 17166.9 | 16419.5 | 15939.0 | 15260.3 | 14757.0 | 14413.8 | 14146.8 | 13727.4 | 13841.8 | 13391.8 |
| 7.5° | 16671.2 | 16343.2 | 15351.8 | 14619.7 | 13681.6 | 12964.8 | 12232.6 | 11584.4 | 10959.0 | 10676.9 | 10829.4 |
| 10° | 16000.0 | 15428.1 | 14093.5 | 12934.3 | 11767.4 | 10455.7 | 9601.6 | 8564.4 | 7923.8 | 7885.6 | 7717.8 |
| 12.5° | 15290.8 | 14642.6 | 13018.1 | 11416.6 | 9883.7 | 8305.1 | 7001.0 | 6032.4 | 5597.7 | 5117.3 | 5208.8 |
| 15° | 14757.0 | 13796.0 | 11820.8 | 9891.4 | 7855.1 | 6261.2 | 4949.5 | 4202.1 | 3790.3 | 3675.9 | 3637.8 |
| 17.5° | 14177.3 | 13147.8 | 10600.6 | 8266.9 | 6162.1 | 4507.2 | 3561.5 | 3203.1 | 3042.9 | 3042.9 | 3020.0 |
| 20° | 13574.9 | 12415.7 | 9388.0 | 6756.9 | 4621.6 | 3363.2 | 2852.2 | 2737.9 | 2730.2 | 2722.6 | 2722.6 |
| 22.5° | 13178.3 | 11576.8 | 8289.8 | 5368.9 | 3485.2 | 2692.1 | 2478.6 | 2432.8 | 2463.3 | 2554.8 | 2554.8 |
| 25° | 12758.9 | 10768.4 | 7077.2 | 4141.1 | 2699.7 | 2310.8 | 2188.8 | 2219.3 | 2295.5 | 2379.4 | 2348.9 |
| 27.5° | 12331.8 | 10242.2 | 5933.3 | 3248.8 | 2211.6 | 2021.0 | 1975.2 | 2043.9 | 2127.7 | 2204.0 | 2181.1 |
| 30° | 12232.6 | 9677.8 | 4850.3 | 2463.3 | 1899.0 | 1761.7 | 1792.2 | 1853.2 | 1937.1 | 1967.6 | 1998.1 |
| 32.5° | 12385.2 | 9235.5 | 3973.3 | 2021.0 | 1654.9 | 1616.8 | 1616.8 | 1647.3 | 1700.7 | 1769.3 | 1746.4 |
| 35° | 12819.9 | 8983.8 | 3142.0 | 1754.1 | 1517.6 | 1479.5 | 1471.9 | 1502.4 | 1532.9 | 1555.8 | 1532.9 |
| 37.5° | 13483.4 | 8785.5 | 2570.1 | 1555.8 | 1426.1 | 1365.1 | 1349.9 | 1342.2 | 1372.7 | 1380.4 | 1395.6 |
| 40° | 14329.9 | 8892.3 | 2181.1 | 1433.8 | 1334.6 | 1266.0 | 1220.2 | 1220.2 | 1220.2 | 1243.1 | 1250.7 |
| 42.5° | 15245.0 | 9037.2 | 1883.7 | 1365.1 | 1250.7 | 1166.8 | 1121.1 | 1105.8 | 1121.1 | 1151.6 | 1143.9 |
| 45° | 16206.0 | 9319.4 | 1693.0 | 1258.3 | 1174.5 | 1067.7 | 1006.7 | 991.4 | 1029.6 | 1090.6 | 1082.9 |
| 47.5° | 17105.9 | 9723.6 | 1548.1 | 1189.7 | 1098.2 | 999.0 | 922.8 | 907.5 | 976.2 | 1060.1 | 1067.7 |
| 50° | 18005.8 | 10425.2 | 1494.8 | 1136.3 | 1044.8 | 930.4 | 861.8 | 846.5 | 922.8 | 1029.6 | 1052.4 |
| 52.5° | 19042.9 | 11180.2 | 1456.6 | 1067.7 | 983.8 | 877.0 | 800.8 | 785.5 | 869.4 | 1006.7 | 1014.3 |
| 55° | 19721.7 | 11820.8 | 1426.1 | 945.7 | 869.4 | 793.1 | 732.1 | 724.5 | 816.0 | 938.0 | 968.5 |
| 57.5° | 18928.6 | 10928.5 | 1319.4 | 823.6 | 739.8 | 701.6 | 648.2 | 648.2 | 724.5 | 838.9 | 861.8 |
| 60° | 14352.8 | 7191.6 | 938.0 | 663.5 | 625.4 | 602.5 | 579.6 | 579.6 | 640.6 | 724.5 | 732.1 |
| 62.5° | 8404.2 | 3874.2 | 602.5 | 533.8 | 533.8 | 511.0 | 472.8 | 472.8 | 533.8 | 579.6 | 587.2 |
| 65° | 2493.8 | 1243.1 | 488.1 | 457.6 | 450.0 | 411.8 | 373.7 | 366.1 | 411.8 | 434.7 | 427.1 |
| 67.5° | 716.9 | 572.0 | 404.2 | 381.3 | 373.7 | 312.7 | 289.8 | 282.2 | 289.8 | 274.5 | 266.9 |
| 70° | 427.1 | 388.9 | 312.7 | 320.3 | 282.2 | 228.8 | 205.9 | 198.3 | 183.0 | 160.2 | 144.9 |
| 72.5° | 236.4 | 236.4 | 228.8 | 244.0 | 198.3 | 152.5 | 129.6 | 106.8 | 83.9 | 68.6 | 61.0 |
| 75° | 144.9 | 152.5 | 160.2 | 167.8 | 129.6 | 99.1 | 83.9 | 53.4 | 30.5 | 15.3 | 15.3 |
| 77.5° | 99.1 | 106.8 | 114.4 | 122.0 | 106.8 | 91.5 | 68.6 | 38.1 | 7.6 | 0.0 | 0.0 |
| 80° | 76.3 | 83.9 | 99.1 | 106.8 | 114.4 | 122.0 | 91.5 | 38.1 | 7.6 | 0.0 | 0.0 |
| 82.5° | 83.9 | 91.5 | 114.4 | 106.8 | 106.8 | 106.8 | 83.9 | 38.1 | 7.6 | 0.0 | 0.0 |
| 85° | 15.3 | 22.9 | 38.1 | 38.1 | 53.4 | 68.6 | 53.4 | 15.3 | 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)