

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: P454698

Luminaire Tested: **GLAN-SA5D-750-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-750-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33394 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

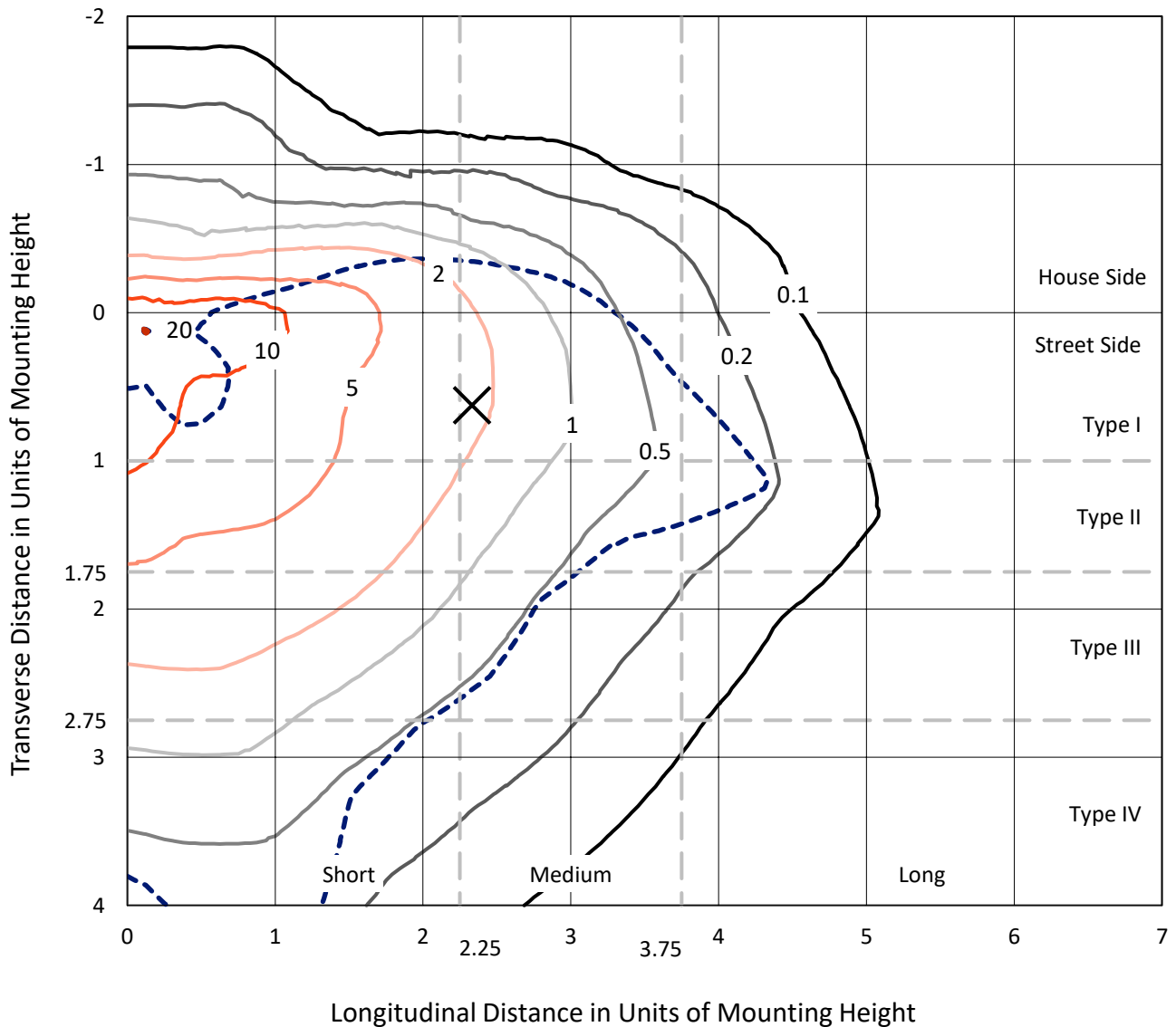
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

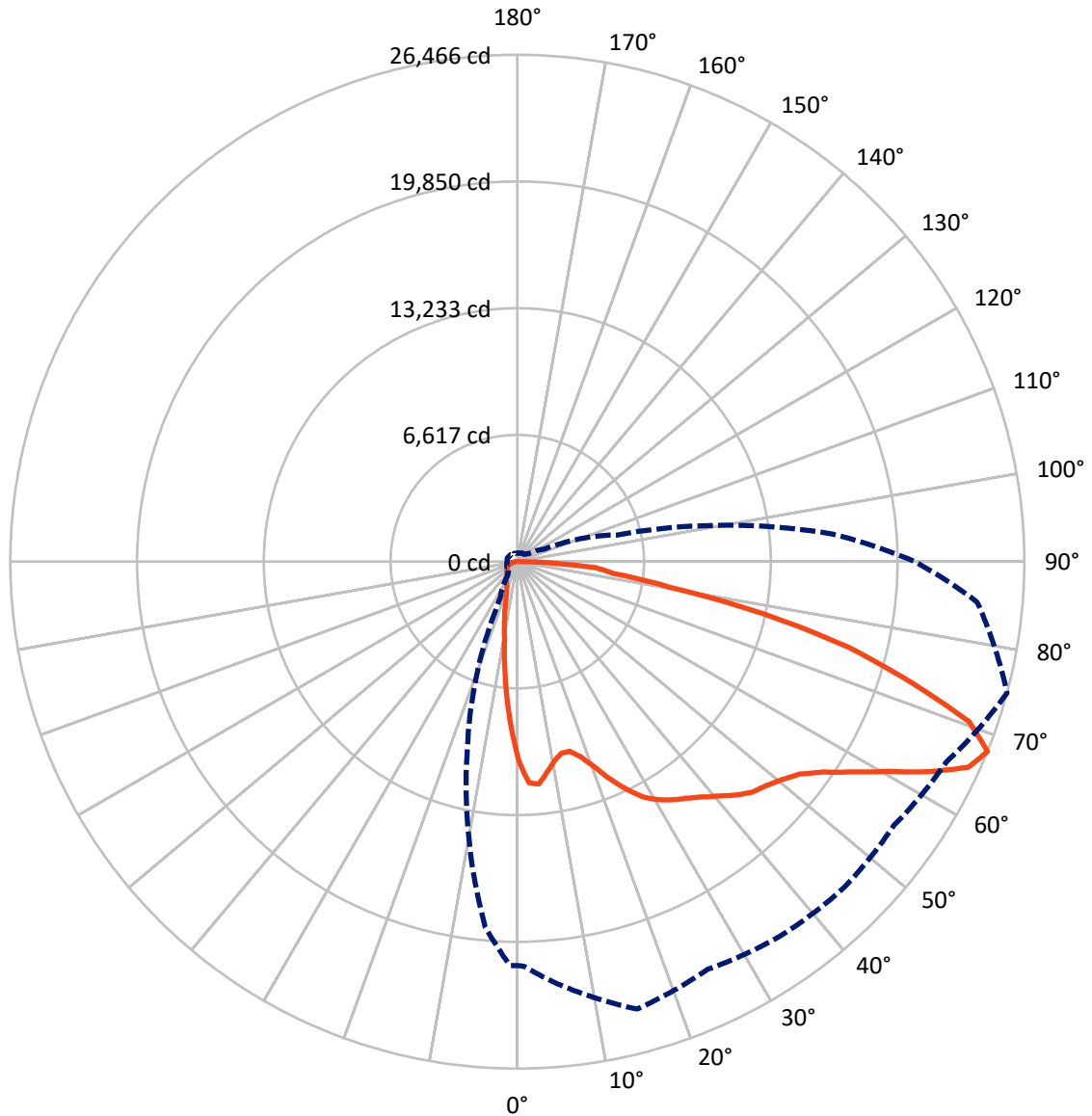
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GLAN-SA5D-750-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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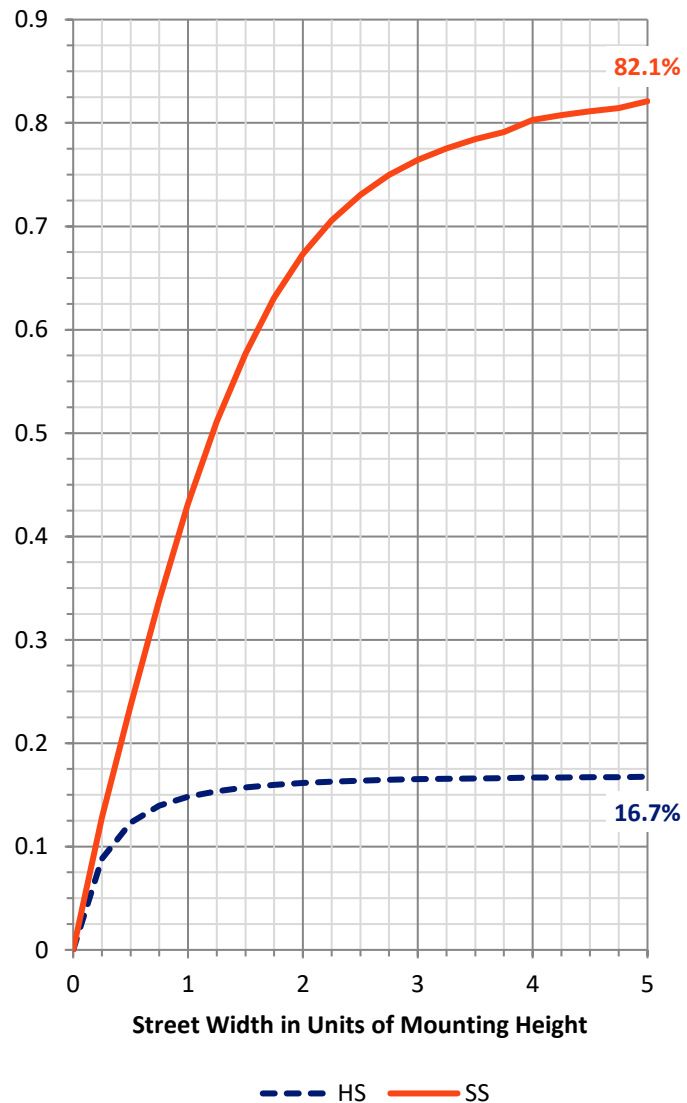
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5644.3 | 0.0 | 5644.3 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 27749.7 | 0.0 | 27749.7 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 33394.0 | 0.0 | 33394.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 791.3 | 2.4 |
| 10°-20° | 1650.3 | 4.9 |
| 20°-30° | 2374.8 | 7.1 |
| 30°-40° | 3420.4 | 10.2 |
| 40°-50° | 4804.8 | 14.4 |
| 50°-60° | 6701.0 | 20.1 |
| 60°-70° | 7967.0 | 23.9 |
| 70°-80° | 4692.1 | 14.1 |
| 80°-90° | 992.2 | 3.0 |
| 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° | 33394.0 | 100.0 |
| 0°-180° | 33394.0 | 100.0 |



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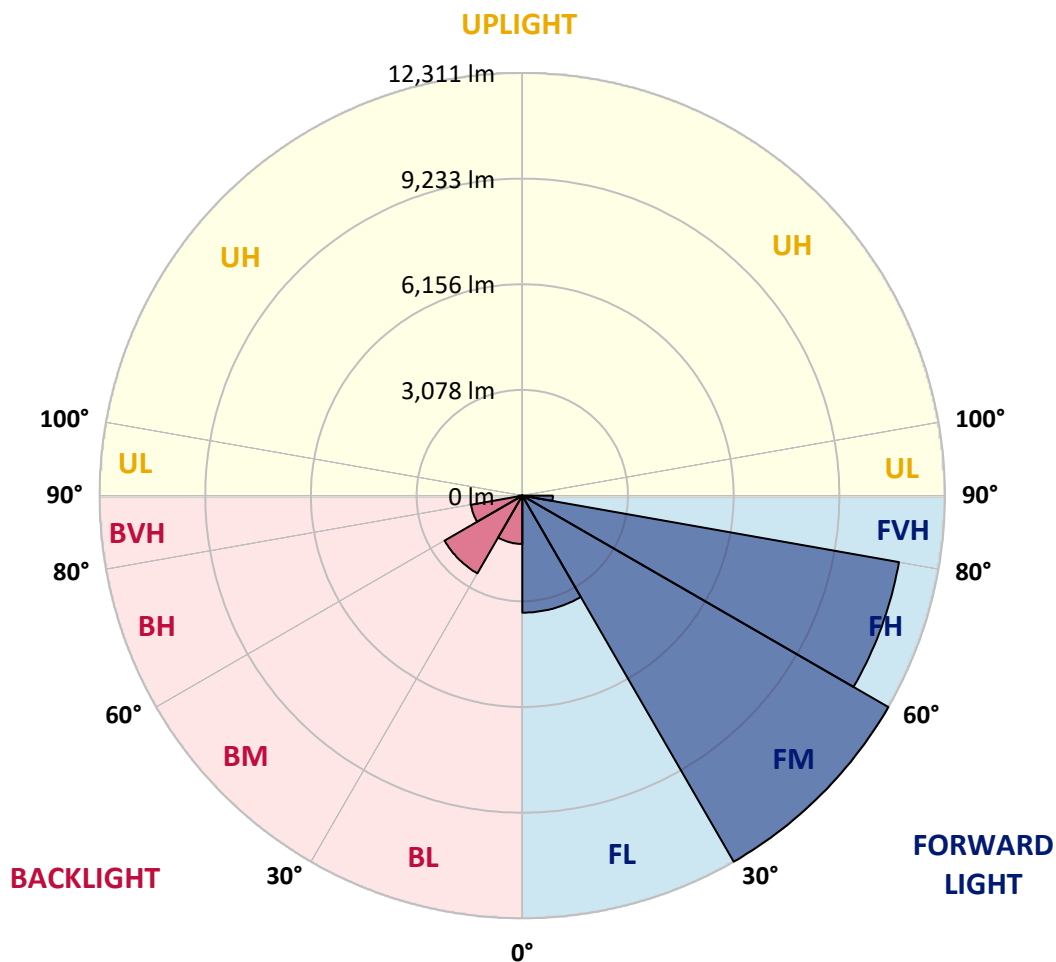
CATALOG NUMBER: GLAN-SA5D-750-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3408.6 | 10.2 | | | |
| FM | (30°-60°) | 12311.1 | 36.9 | | | |
| FH | (60°-80°) | 11140.4 | 33.4 | | | G4/12000 |
| FVH | (80°-90°) | 889.6 | 2.7 | | | G5 |
| BL | (0°-30°) | 1407.9 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2615.0 | 7.8 | B3/5000 | | |
| BH | (60°-80°) | 1518.8 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 102.6 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





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 CATALOG NUMBER: GLAN-SA5D-750-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 |
| 2.5° | 11249.0 | 11264.0 | 11360.3 | 11640.8 | 11833.6 | 11904.2 | 11953.5 | 11861.4 | 11771.5 | 11553.0 | 11223.3 |
| 5° | 11214.7 | 11302.5 | 11553.0 | 12182.6 | 12679.4 | 12893.6 | 12957.8 | 12681.6 | 12225.5 | 11664.4 | 10989.8 |
| 7.5° | 10559.4 | 10677.2 | 11062.7 | 12118.4 | 12994.2 | 13495.3 | 13428.9 | 12930.0 | 12107.7 | 11107.6 | 10165.4 |
| 10° | 9782.1 | 9912.7 | 10377.4 | 11653.7 | 12782.2 | 13471.8 | 13471.8 | 12863.6 | 11771.5 | 10583.0 | 9497.3 |
| 12.5° | 9165.3 | 9302.4 | 9833.5 | 11176.2 | 12341.1 | 12994.2 | 13103.4 | 12580.9 | 11529.5 | 10251.1 | 9058.3 |
| 15° | 8961.9 | 9094.7 | 9666.4 | 10887.1 | 11874.3 | 12272.6 | 12309.0 | 12137.7 | 11411.7 | 10274.6 | 9039.0 |
| 17.5° | 9214.6 | 9385.9 | 9964.1 | 10972.7 | 11446.0 | 11469.5 | 11497.4 | 11632.3 | 11424.6 | 10705.0 | 9428.7 |
| 20° | 9944.8 | 10129.0 | 10732.9 | 11249.0 | 11071.2 | 10827.1 | 10842.1 | 11189.0 | 11576.6 | 11416.0 | 10360.3 |
| 22.5° | 10998.4 | 11159.0 | 11777.9 | 11735.1 | 10912.8 | 10409.5 | 10304.6 | 10788.6 | 11801.5 | 12302.5 | 11351.8 |
| 25° | 12135.5 | 12324.0 | 13034.9 | 12456.7 | 10957.7 | 10161.1 | 10094.7 | 10553.0 | 12034.9 | 13131.3 | 12497.4 |
| 27.5° | 13437.5 | 13621.7 | 14182.7 | 13184.8 | 11193.3 | 10141.8 | 10062.6 | 10531.6 | 12244.7 | 13897.9 | 13591.7 |
| 30° | 14405.4 | 14574.6 | 14955.8 | 13797.3 | 11482.4 | 10270.3 | 10171.8 | 10700.8 | 12424.6 | 14422.6 | 14658.1 |
| 32.5° | 15165.6 | 15341.2 | 15549.0 | 14178.4 | 11863.6 | 10503.7 | 10321.7 | 11009.1 | 12660.2 | 14823.0 | 15448.3 |
| 35° | 15958.0 | 16165.7 | 16150.7 | 14516.8 | 12219.0 | 10773.6 | 10595.8 | 11454.5 | 13030.6 | 15172.1 | 16450.5 |
| 37.5° | 16962.3 | 17045.8 | 16938.8 | 14820.9 | 12645.2 | 11259.7 | 11161.2 | 12116.2 | 13557.4 | 15593.9 | 17621.9 |
| 40° | 17981.6 | 18148.7 | 17598.3 | 15189.2 | 13163.4 | 12174.1 | 12163.4 | 13094.9 | 14182.7 | 16088.6 | 18756.8 |
| 42.5° | 18855.3 | 18996.7 | 18215.1 | 15510.4 | 13790.8 | 13289.8 | 13371.1 | 14407.6 | 15002.9 | 16662.5 | 19669.1 |
| 45° | 19512.8 | 19639.1 | 18784.7 | 15820.9 | 14617.4 | 14578.9 | 15058.6 | 15814.5 | 16037.2 | 17178.6 | 20204.4 |
| 47.5° | 20071.7 | 20193.7 | 19180.8 | 16292.0 | 15638.9 | 16118.6 | 16953.7 | 17281.4 | 16921.6 | 17474.1 | 20804.1 |
| 50° | 20542.8 | 20579.2 | 19452.8 | 16853.1 | 16906.6 | 18005.2 | 18814.7 | 19026.7 | 17795.3 | 17898.1 | 21324.4 |
| 52.5° | 21033.2 | 20986.1 | 19921.8 | 17559.8 | 18277.2 | 19795.4 | 20384.3 | 20604.9 | 18632.6 | 18420.6 | 22082.5 |
| 55° | 22131.7 | 22176.7 | 20973.2 | 18450.6 | 19662.7 | 21553.6 | 22328.8 | 22116.8 | 19559.9 | 19382.1 | 23046.1 |
| 57.5° | 23459.4 | 23420.9 | 22453.0 | 19844.7 | 21073.9 | 23189.6 | 23767.8 | 23427.3 | 20797.6 | 20703.4 | 24022.6 |
| 60° | 23975.5 | 24026.9 | 23690.7 | 21343.7 | 22465.8 | 24622.2 | 25213.3 | 24684.3 | 22281.6 | 22238.8 | 24759.3 |
| 62.5° | 23457.3 | 23746.4 | 23973.4 | 22677.8 | 23652.2 | 25675.8 | 26262.6 | 25658.7 | 23829.9 | 24140.4 | 25275.4 |
| 65° | 22425.1 | 22487.2 | 23260.3 | 23808.5 | 24223.9 | 25849.3 | 26155.5 | 25834.3 | 25123.3 | 25872.8 | 25251.8 |
| 67.5° | 21084.6 | 21138.1 | 22043.9 | 24179.0 | 23487.3 | 23879.2 | 24093.3 | 23999.1 | 24722.9 | 26466.0 | 24089.0 |
| 70° | 19808.3 | 19765.5 | 20722.7 | 23234.6 | 20446.4 | 19851.1 | 20028.9 | 19733.3 | 21333.0 | 25016.3 | 21808.4 |
| 72.5° | 17324.2 | 17478.4 | 18506.3 | 20609.2 | 16189.3 | 15221.3 | 15608.9 | 14844.4 | 16407.7 | 21425.1 | 17701.1 |
| 75° | 13570.3 | 13606.7 | 15322.0 | 17296.4 | 12212.6 | 10685.8 | 11210.4 | 10891.3 | 12568.1 | 17872.4 | 12223.3 |
| 77.5° | 9396.6 | 9315.2 | 11159.0 | 13210.5 | 8709.2 | 7822.7 | 7831.2 | 7679.2 | 8775.6 | 13159.1 | 8304.5 |
| 80° | 5968.2 | 5844.0 | 6985.4 | 8161.0 | 5985.3 | 6402.9 | 6193.0 | 6186.6 | 5713.4 | 8118.2 | 5021.7 |
| 82.5° | 3225.0 | 3362.1 | 4413.5 | 5115.9 | 4293.6 | 4948.9 | 4535.6 | 4402.8 | 3921.0 | 5081.6 | 3212.2 |
| 85° | 1469.0 | 1597.5 | 2353.4 | 3479.8 | 3261.4 | 3297.8 | 2203.5 | 2599.7 | 3244.3 | 4126.5 | 1715.3 |
| 87.5° | 143.5 | 184.2 | 486.1 | 1642.5 | 1113.5 | 878.0 | 327.6 | 631.7 | 815.9 | 1466.9 | 137.1 |
| 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: GLAN-SA5D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 |
| 2.5° | 11088.4 | 10977.0 | 10598.0 | 10285.3 | 9953.4 | 9700.7 | 9370.9 | 9150.4 | 8998.3 | 8769.2 | 8741.3 |
| 5° | 10578.7 | 10306.7 | 9647.2 | 8974.8 | 8394.4 | 7957.6 | 7514.3 | 7107.4 | 6867.6 | 6792.6 | 6696.3 |
| 7.5° | 9720.0 | 9261.7 | 8413.7 | 7642.8 | 6976.8 | 6325.8 | 5824.7 | 5469.2 | 5231.5 | 5092.3 | 4925.3 |
| 10° | 9013.3 | 8482.2 | 7450.1 | 6505.7 | 5957.5 | 5552.7 | 5111.6 | 4730.4 | 4437.1 | 4186.5 | 4049.5 |
| 12.5° | 8537.9 | 7938.3 | 6777.6 | 6011.0 | 5587.0 | 5156.6 | 4640.5 | 4212.2 | 3779.6 | 3494.8 | 3372.8 |
| 15° | 8394.4 | 7760.6 | 6569.9 | 5764.7 | 5156.6 | 4593.4 | 4015.2 | 3456.3 | 3028.0 | 2758.2 | 2668.2 |
| 17.5° | 8745.6 | 7979.0 | 6567.8 | 5437.1 | 4651.2 | 3978.8 | 3237.9 | 2713.2 | 2274.2 | 2072.9 | 2008.7 |
| 20° | 9400.9 | 8398.7 | 6587.1 | 5113.7 | 4103.0 | 3156.5 | 2355.6 | 1925.2 | 1715.3 | 1629.6 | 1597.5 |
| 22.5° | 10315.3 | 9039.0 | 6644.9 | 4794.7 | 3503.4 | 2424.1 | 1764.5 | 1546.1 | 1471.2 | 1456.2 | 1449.8 |
| 25° | 11441.7 | 9831.3 | 6839.7 | 4507.7 | 2998.0 | 1850.2 | 1475.4 | 1376.9 | 1334.1 | 1319.1 | 1317.0 |
| 27.5° | 12478.1 | 10854.9 | 7075.3 | 4261.5 | 2509.8 | 1595.4 | 1334.1 | 1250.6 | 1207.8 | 1205.6 | 1209.9 |
| 30° | 13414.0 | 11711.5 | 7272.3 | 3985.2 | 2139.3 | 1417.6 | 1242.0 | 1158.5 | 1117.8 | 1115.7 | 1128.5 |
| 32.5° | 14223.4 | 12416.0 | 7417.9 | 3713.2 | 1933.7 | 1308.4 | 1158.5 | 1068.6 | 1034.3 | 1027.9 | 1034.3 |
| 35° | 15088.6 | 13118.4 | 7351.5 | 3501.2 | 1815.9 | 1218.5 | 1096.4 | 1008.6 | 967.9 | 948.7 | 948.7 |
| 37.5° | 16075.8 | 13842.2 | 7238.1 | 3325.6 | 1762.4 | 1143.5 | 1042.9 | 957.2 | 916.5 | 897.3 | 895.1 |
| 40° | 17152.9 | 14566.0 | 7081.7 | 3169.3 | 1708.9 | 1098.6 | 1006.5 | 916.5 | 867.3 | 848.0 | 843.7 |
| 42.5° | 18103.7 | 15184.9 | 6953.2 | 3066.5 | 1621.1 | 1107.1 | 974.4 | 886.6 | 824.5 | 798.8 | 796.6 |
| 45° | 18930.3 | 15808.1 | 6929.7 | 3006.6 | 1548.3 | 1094.3 | 965.8 | 863.0 | 790.2 | 762.4 | 758.1 |
| 47.5° | 19577.0 | 16456.9 | 7064.6 | 2972.3 | 1469.0 | 1025.7 | 1021.5 | 848.0 | 760.2 | 730.2 | 725.9 |
| 50° | 20365.1 | 17377.8 | 7373.0 | 2901.6 | 1396.2 | 961.5 | 1079.3 | 845.9 | 736.7 | 698.1 | 687.4 |
| 52.5° | 21414.4 | 18577.0 | 7790.5 | 2775.3 | 1291.3 | 901.5 | 1030.0 | 845.9 | 708.8 | 670.3 | 657.4 |
| 55° | 23001.2 | 20105.9 | 8199.6 | 2597.6 | 1143.5 | 822.3 | 929.4 | 820.2 | 668.1 | 633.9 | 625.3 |
| 57.5° | 24052.6 | 21223.8 | 8460.8 | 2351.3 | 959.4 | 764.5 | 800.9 | 779.5 | 627.4 | 591.0 | 591.0 |
| 60° | 24106.1 | 21523.6 | 8336.6 | 2040.8 | 843.7 | 711.0 | 696.0 | 785.9 | 591.0 | 552.5 | 548.2 |
| 62.5° | 23489.4 | 20789.1 | 7689.9 | 1762.4 | 781.6 | 653.1 | 629.6 | 689.5 | 554.6 | 516.1 | 509.7 |
| 65° | 22525.8 | 18915.3 | 6567.8 | 1629.6 | 747.4 | 601.7 | 567.5 | 565.3 | 516.1 | 479.7 | 471.1 |
| 67.5° | 20754.8 | 16529.7 | 5396.4 | 1552.5 | 730.2 | 543.9 | 511.8 | 501.1 | 471.1 | 441.1 | 436.9 |
| 70° | 18144.4 | 13844.4 | 4327.8 | 1520.4 | 721.7 | 484.0 | 458.3 | 445.4 | 419.7 | 396.2 | 394.0 |
| 72.5° | 14116.3 | 11229.7 | 3571.9 | 1499.0 | 717.4 | 428.3 | 400.4 | 383.3 | 368.3 | 346.9 | 346.9 |
| 75° | 10139.7 | 8261.7 | 2726.0 | 1351.2 | 663.8 | 368.3 | 338.3 | 327.6 | 306.2 | 289.1 | 293.4 |
| 77.5° | 6392.2 | 5563.5 | 1794.5 | 993.6 | 513.9 | 295.5 | 269.8 | 263.4 | 246.3 | 222.7 | 237.7 |
| 80° | 4317.1 | 3912.4 | 1047.2 | 625.3 | 323.4 | 216.3 | 207.7 | 205.6 | 186.3 | 160.6 | 162.7 |
| 82.5° | 2938.1 | 2882.4 | 543.9 | 355.5 | 186.3 | 126.3 | 122.1 | 126.3 | 104.9 | 85.7 | 85.7 |
| 85° | 1147.8 | 1567.5 | 257.0 | 139.2 | 60.0 | 19.3 | 27.8 | 30.0 | 17.1 | 8.6 | 10.7 |
| 87.5° | 21.4 | 160.6 | 6.4 | 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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 CATALOG NUMBER: GLAN-SA5D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 |
| 2.5° | 8698.5 | 8679.2 | 8711.4 | 8574.3 | 8602.1 | 8653.5 | 8679.2 | 8694.2 | 8906.2 | 8857.0 | 8991.9 |
| 5° | 6786.2 | 6766.9 | 6891.1 | 6908.3 | 6972.5 | 6959.7 | 7021.8 | 7036.8 | 7113.9 | 7141.7 | 7330.1 |
| 7.5° | 4936.0 | 5019.5 | 5160.9 | 5233.7 | 5342.9 | 5377.1 | 5345.0 | 5424.3 | 5263.6 | 5379.3 | 5413.6 |
| 10° | 3965.9 | 3865.3 | 3805.3 | 3972.4 | 3993.8 | 4152.2 | 4088.0 | 4036.6 | 4130.8 | 4135.1 | 4225.1 |
| 12.5° | 3302.1 | 3085.8 | 2942.3 | 2989.4 | 3040.8 | 3109.4 | 3120.1 | 3222.9 | 3291.4 | 3355.6 | 3409.2 |
| 15° | 2589.0 | 2514.0 | 2383.4 | 2319.2 | 2392.0 | 2419.8 | 2486.2 | 2571.9 | 2644.7 | 2663.9 | 2736.8 |
| 17.5° | 1987.3 | 2000.1 | 1978.7 | 1940.1 | 1985.1 | 2006.5 | 2010.8 | 2012.9 | 2032.2 | 2019.4 | 2126.4 |
| 20° | 1599.7 | 1644.6 | 1698.2 | 1706.7 | 1721.7 | 1732.4 | 1713.1 | 1640.3 | 1642.5 | 1687.5 | 1721.7 |
| 22.5° | 1447.6 | 1456.2 | 1516.1 | 1535.4 | 1582.5 | 1563.2 | 1507.6 | 1473.3 | 1469.0 | 1479.7 | 1496.9 |
| 25° | 1327.7 | 1340.5 | 1383.4 | 1413.3 | 1449.8 | 1415.5 | 1374.8 | 1342.7 | 1338.4 | 1349.1 | 1366.2 |
| 27.5° | 1220.6 | 1239.9 | 1278.4 | 1308.4 | 1342.7 | 1310.6 | 1272.0 | 1244.2 | 1242.0 | 1239.9 | 1250.6 |
| 30° | 1135.0 | 1156.4 | 1184.2 | 1218.5 | 1242.0 | 1214.2 | 1177.8 | 1162.8 | 1160.7 | 1156.4 | 1160.7 |
| 32.5° | 1049.3 | 1083.6 | 1111.4 | 1128.5 | 1152.1 | 1130.7 | 1102.8 | 1094.3 | 1079.3 | 1066.4 | 1060.0 |
| 35° | 952.9 | 989.3 | 1032.2 | 1053.6 | 1077.1 | 1055.7 | 1036.5 | 1000.1 | 974.4 | 972.2 | 976.5 |
| 37.5° | 897.3 | 912.3 | 946.5 | 982.9 | 1006.5 | 995.8 | 959.4 | 923.0 | 916.5 | 916.5 | 920.8 |
| 40° | 848.0 | 854.4 | 869.4 | 916.5 | 959.4 | 927.2 | 882.3 | 871.6 | 871.6 | 869.4 | 871.6 |
| 42.5° | 798.8 | 805.2 | 805.2 | 841.6 | 910.1 | 858.7 | 824.5 | 824.5 | 824.5 | 826.6 | 833.0 |
| 45° | 753.8 | 755.9 | 753.8 | 779.5 | 843.7 | 800.9 | 777.3 | 783.8 | 788.0 | 792.3 | 796.6 |
| 47.5° | 715.2 | 717.4 | 715.2 | 736.7 | 768.8 | 751.6 | 738.8 | 747.4 | 755.9 | 762.4 | 766.6 |
| 50° | 681.0 | 678.8 | 683.1 | 696.0 | 711.0 | 715.2 | 706.7 | 719.5 | 723.8 | 732.4 | 743.1 |
| 52.5° | 651.0 | 648.9 | 653.1 | 659.6 | 681.0 | 681.0 | 681.0 | 691.7 | 700.2 | 708.8 | 723.8 |
| 55° | 616.7 | 618.9 | 625.3 | 633.9 | 661.7 | 657.4 | 659.6 | 668.1 | 676.7 | 689.5 | 698.1 |
| 57.5° | 584.6 | 588.9 | 597.5 | 610.3 | 638.1 | 636.0 | 638.1 | 642.4 | 653.1 | 659.6 | 668.1 |
| 60° | 548.2 | 556.8 | 567.5 | 576.0 | 603.9 | 601.7 | 612.5 | 621.0 | 627.4 | 627.4 | 631.7 |
| 62.5° | 511.8 | 524.7 | 535.4 | 541.8 | 571.8 | 573.9 | 588.9 | 595.3 | 599.6 | 595.3 | 601.7 |
| 65° | 475.4 | 494.7 | 499.0 | 507.5 | 537.5 | 539.6 | 556.8 | 571.8 | 567.5 | 563.2 | 573.9 |
| 67.5° | 439.0 | 462.6 | 460.4 | 471.1 | 501.1 | 505.4 | 520.4 | 546.1 | 537.5 | 533.2 | 541.8 |
| 70° | 398.3 | 415.4 | 417.6 | 424.0 | 464.7 | 458.3 | 481.8 | 505.4 | 499.0 | 501.1 | 501.1 |
| 72.5° | 353.3 | 368.3 | 368.3 | 381.2 | 424.0 | 413.3 | 432.6 | 458.3 | 458.3 | 456.1 | 456.1 |
| 75° | 299.8 | 308.4 | 316.9 | 336.2 | 381.2 | 368.3 | 381.2 | 404.7 | 409.0 | 404.7 | 404.7 |
| 77.5° | 242.0 | 254.8 | 259.1 | 284.8 | 316.9 | 314.8 | 327.6 | 338.3 | 346.9 | 342.6 | 342.6 |
| 80° | 171.3 | 184.2 | 201.3 | 229.1 | 248.4 | 254.8 | 261.3 | 269.8 | 274.1 | 274.1 | 278.4 |
| 82.5° | 96.4 | 115.6 | 130.6 | 158.5 | 167.0 | 199.2 | 197.0 | 203.4 | 197.0 | 173.5 | 192.7 |
| 85° | 21.4 | 40.7 | 57.8 | 72.8 | 83.5 | 115.6 | 122.1 | 137.1 | 113.5 | 104.9 | 104.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.1 | 34.3 | 47.1 | 40.7 | 34.3 | 34.3 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 | 10433.1 |
| 2.5° | 9105.4 | 9291.7 | 9516.5 | 9904.1 | 10176.1 | 10469.5 | 10765.0 | 11079.8 | 11163.3 | 11249.0 |
| 5° | 7381.5 | 7747.7 | 7946.9 | 8467.2 | 9013.3 | 9707.1 | 10274.6 | 10895.6 | 11154.7 | 11214.7 |
| 7.5° | 5591.3 | 5839.7 | 6362.2 | 6889.0 | 7565.7 | 8293.8 | 9163.2 | 10131.1 | 10433.1 | 10559.4 |
| 10° | 4432.8 | 4771.1 | 5229.4 | 5794.7 | 6387.9 | 7171.7 | 8152.4 | 9283.1 | 9711.4 | 9782.1 |
| 12.5° | 3773.2 | 4150.1 | 4649.1 | 5246.5 | 5807.6 | 6398.6 | 7388.0 | 8555.0 | 9013.3 | 9165.3 |
| 15° | 3017.3 | 3473.4 | 4049.5 | 4679.0 | 5289.3 | 5936.1 | 6938.3 | 8255.2 | 8784.2 | 8961.9 |
| 17.5° | 2370.6 | 2738.9 | 3362.1 | 4045.2 | 4769.0 | 5587.0 | 6844.0 | 8398.7 | 9049.7 | 9214.6 |
| 20° | 1813.8 | 2077.2 | 2601.8 | 3323.5 | 4171.5 | 5242.2 | 6867.6 | 8940.5 | 9720.0 | 9944.8 |
| 22.5° | 1567.5 | 1702.4 | 2021.5 | 2708.9 | 3657.6 | 4942.4 | 6963.9 | 9683.6 | 10623.7 | 10998.4 |
| 25° | 1419.8 | 1490.4 | 1670.3 | 2120.0 | 3167.2 | 4651.2 | 7184.5 | 10683.6 | 11887.1 | 12135.5 |
| 27.5° | 1293.4 | 1344.8 | 1456.2 | 1779.5 | 2721.8 | 4381.4 | 7441.5 | 11792.9 | 13067.0 | 13437.5 |
| 30° | 1173.5 | 1242.0 | 1347.0 | 1580.4 | 2437.0 | 4135.1 | 7764.8 | 12692.3 | 14060.7 | 14405.4 |
| 32.5° | 1081.4 | 1150.0 | 1246.3 | 1441.2 | 2195.0 | 3876.0 | 7957.6 | 13482.5 | 14872.3 | 15165.6 |
| 35° | 1006.5 | 1064.3 | 1164.9 | 1329.8 | 2010.8 | 3679.0 | 7919.0 | 14109.9 | 15658.2 | 15958.0 |
| 37.5° | 952.9 | 1002.2 | 1102.8 | 1224.9 | 1871.6 | 3473.4 | 7899.8 | 14938.7 | 16615.4 | 16962.3 |
| 40° | 903.7 | 955.1 | 1047.2 | 1156.4 | 1732.4 | 3231.4 | 7910.5 | 15761.0 | 17634.7 | 17981.6 |
| 42.5° | 865.1 | 923.0 | 997.9 | 1137.1 | 1588.9 | 3036.6 | 7910.5 | 16476.2 | 18521.3 | 18855.3 |
| 45° | 833.0 | 895.1 | 967.9 | 1135.0 | 1475.4 | 2888.8 | 7856.9 | 17090.8 | 19228.0 | 19512.8 |
| 47.5° | 805.2 | 873.7 | 978.6 | 1096.4 | 1447.6 | 2781.7 | 7809.8 | 17583.3 | 19804.0 | 20071.7 |
| 50° | 785.9 | 867.3 | 1040.7 | 1051.4 | 1456.2 | 2749.6 | 8036.8 | 18204.3 | 20311.5 | 20542.8 |
| 52.5° | 770.9 | 869.4 | 1038.6 | 985.1 | 1441.2 | 2771.0 | 8510.1 | 19174.4 | 21016.1 | 21033.2 |
| 55° | 740.9 | 867.3 | 985.1 | 910.1 | 1379.1 | 2807.4 | 9118.2 | 20583.5 | 22118.9 | 22131.7 |
| 57.5° | 711.0 | 843.7 | 914.4 | 845.9 | 1252.7 | 2807.4 | 9850.6 | 21917.6 | 23448.7 | 23459.4 |
| 60° | 681.0 | 878.0 | 803.0 | 790.2 | 1087.8 | 2756.0 | 10623.7 | 22504.4 | 23866.3 | 23975.5 |
| 62.5° | 651.0 | 884.4 | 717.4 | 740.9 | 967.9 | 2631.8 | 11199.7 | 21855.5 | 23301.0 | 23457.3 |
| 65° | 616.7 | 713.1 | 661.7 | 689.5 | 905.8 | 2424.1 | 11017.7 | 20667.0 | 22238.8 | 22425.1 |
| 67.5° | 576.0 | 603.9 | 601.7 | 636.0 | 884.4 | 2117.9 | 10058.3 | 19163.7 | 21095.3 | 21084.6 |
| 70° | 526.8 | 541.8 | 548.2 | 584.6 | 843.7 | 1880.2 | 8381.6 | 17212.9 | 19568.4 | 19808.3 |
| 72.5° | 475.4 | 488.2 | 494.7 | 526.8 | 803.0 | 1745.3 | 6505.7 | 14525.4 | 16949.5 | 17324.2 |
| 75° | 419.7 | 428.3 | 436.9 | 464.7 | 760.2 | 1546.1 | 4634.1 | 11088.4 | 12981.4 | 13570.3 |
| 77.5° | 361.9 | 361.9 | 372.6 | 400.4 | 640.3 | 1276.3 | 3109.4 | 7777.7 | 8794.9 | 9396.6 |
| 80° | 293.4 | 295.5 | 291.2 | 321.2 | 471.1 | 873.7 | 1766.7 | 5195.1 | 5852.5 | 5968.2 |
| 82.5° | 224.9 | 218.4 | 220.6 | 235.6 | 351.2 | 595.3 | 942.2 | 3227.1 | 3289.2 | 3225.0 |
| 85° | 141.3 | 141.3 | 137.1 | 154.2 | 224.9 | 310.5 | 513.9 | 1976.5 | 1544.0 | 1469.0 |
| 87.5° | 57.8 | 47.1 | 53.5 | 62.1 | 107.1 | 126.3 | 201.3 | 406.9 | 156.3 | 143.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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