

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: P531331

Luminaire Tested: **GLAN-SA6C-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6C-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23048 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 321
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

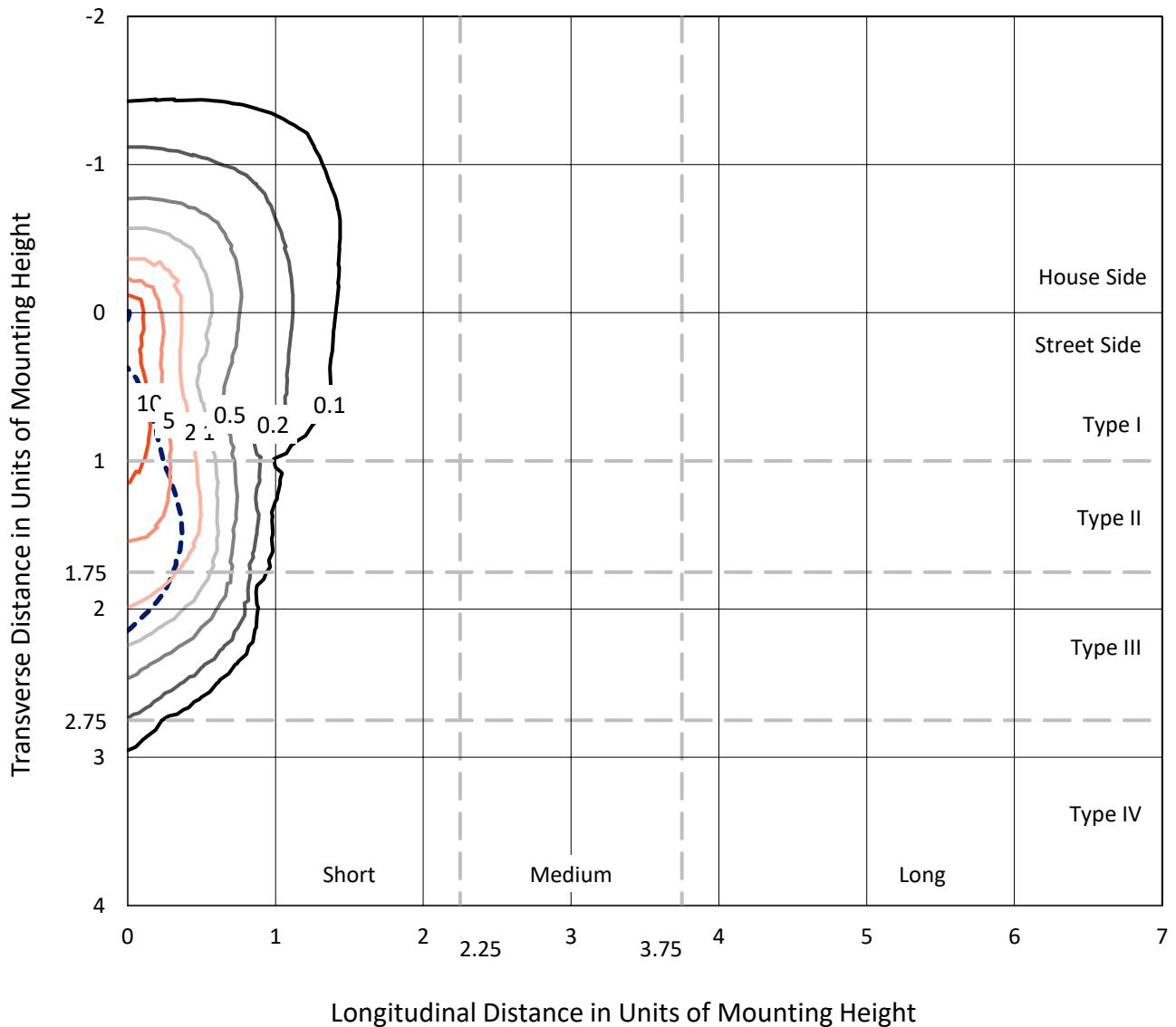




REPORT NUMBER: P531331
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Iso-Footcandle Lines of Horizontal Illumination

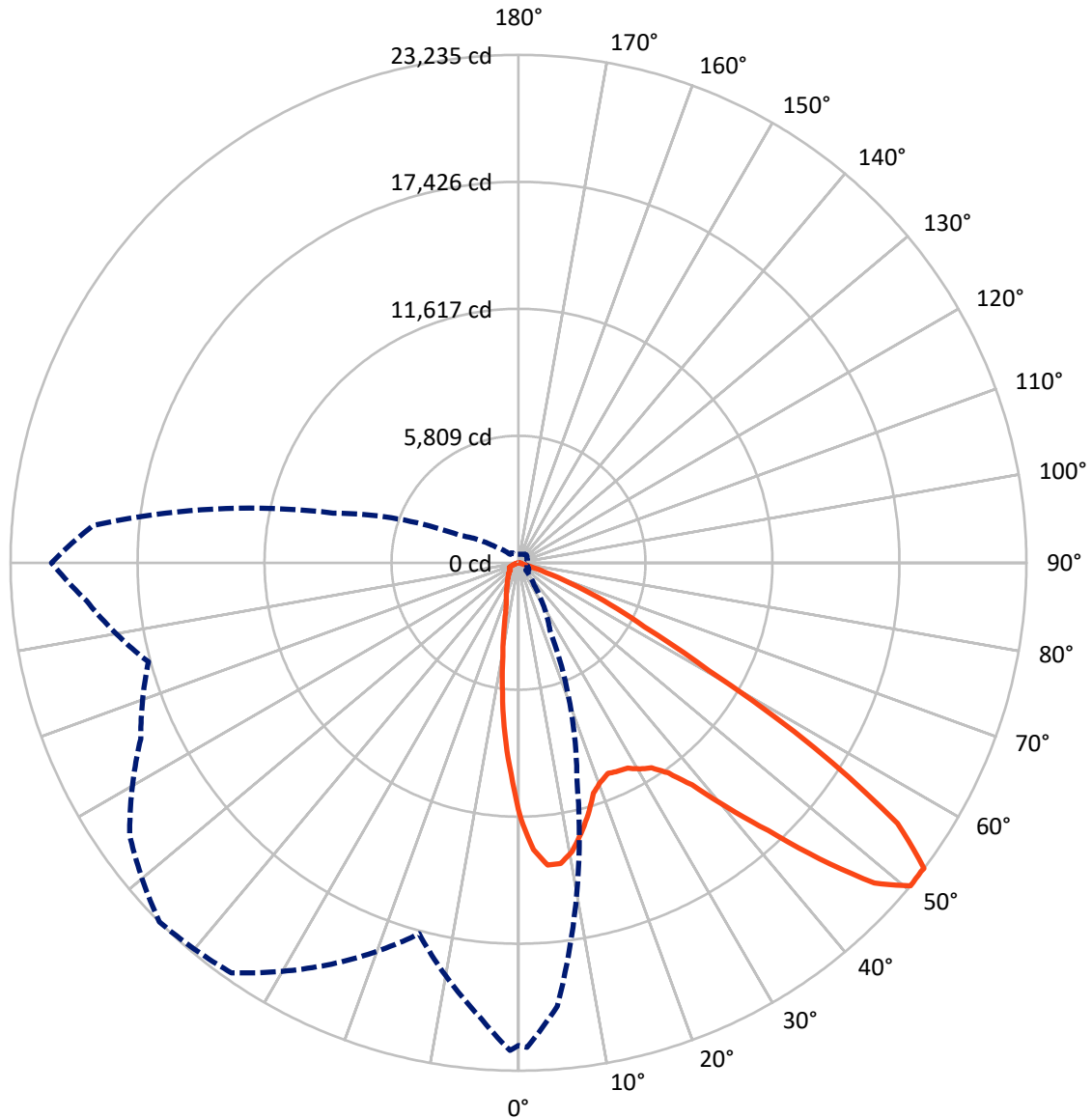
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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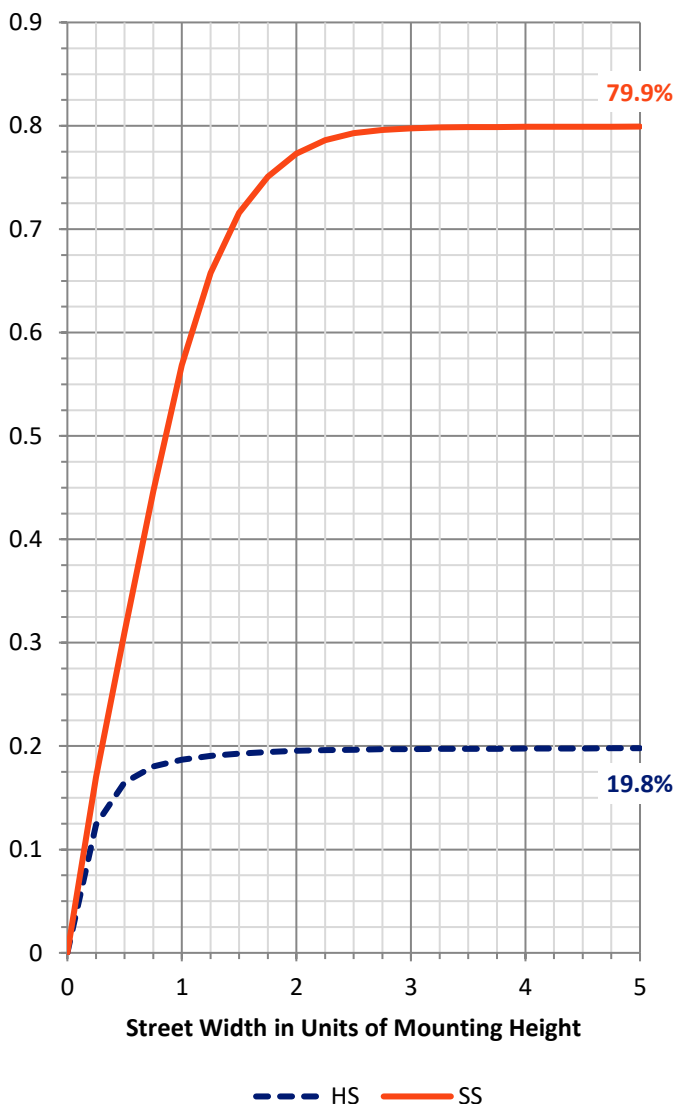
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4616.5 | 0.0 | 4616.5 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 18431.5 | 0.0 | 18431.5 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 23048.0 | 0.0 | 23048.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 851.9 | 3.7 |
| 10°-20° | 1693.2 | 7.3 |
| 20°-30° | 2543.7 | 11.0 |
| 30°-40° | 3818.0 | 16.6 |
| 40°-50° | 5366.0 | 23.3 |
| 50°-60° | 5788.2 | 25.1 |
| 60°-70° | 2687.4 | 11.7 |
| 70°-80° | 252.9 | 1.1 |
| 80°-90° | 46.6 | 0.2 |
| 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° | 23048.0 | 100.0 |
| 0°-180° | 23048.0 | 100.0 |

Coefficient of Utilization



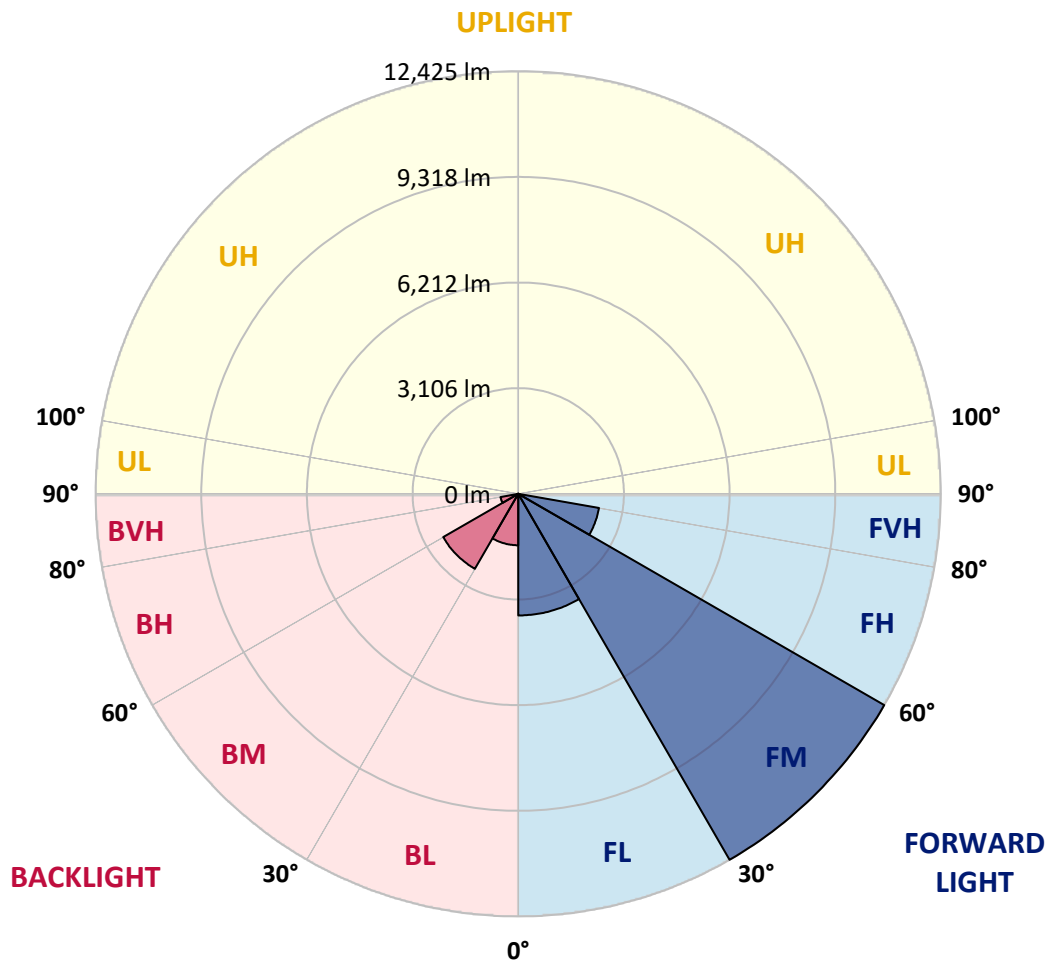
REPORT NUMBER: P531331
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3575.7 | 15.5 | | | |
| FM (30°-60°) | 12424.6 | 53.9 | | | |
| FH (60°-80°) | 2410.2 | 10.5 | | | G2/5000 |
| FVH (80°-90°) | 21.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1513.2 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 2547.6 | 11.1 | B3/5000 | | |
| BH (60°-80°) | 530.1 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 25.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P531331

CATALOG NUMBER: GLAN-SA6C-760-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 |
| 2.5° | 12150.1 | 11962.6 | 11724.8 | 11528.2 | 11235.5 | 10645.6 | 10485.6 | 10293.5 | 10133.5 | 9918.5 | 9616.7 |
| 5° | 11048.0 | 10988.6 | 10878.8 | 10138.0 | 9603.0 | 8889.6 | 8304.3 | 8057.4 | 7732.7 | 7467.5 | 7275.4 |
| 7.5° | 10206.6 | 9968.8 | 9621.3 | 8875.9 | 8020.8 | 7257.1 | 6607.8 | 6228.2 | 5798.4 | 5652.1 | 5391.4 |
| 10° | 9305.8 | 9360.7 | 8848.5 | 7801.3 | 6767.8 | 6150.5 | 5748.1 | 5382.3 | 4993.6 | 4737.5 | 4367.1 |
| 12.5° | 9017.7 | 8839.3 | 8446.1 | 7152.0 | 6269.4 | 5693.2 | 5203.9 | 4751.2 | 4339.6 | 3928.1 | 3571.4 |
| 15° | 9205.2 | 8930.8 | 8382.1 | 7014.8 | 5885.3 | 5167.3 | 4554.6 | 3941.8 | 3562.3 | 3036.4 | 2666.0 |
| 17.5° | 9877.4 | 9657.9 | 8921.7 | 7161.1 | 5688.6 | 4664.3 | 3754.3 | 3123.3 | 2542.5 | 2066.9 | 1879.4 |
| 20° | 10997.7 | 10686.8 | 9763.1 | 7348.6 | 5396.0 | 4056.1 | 3045.5 | 2268.1 | 1719.4 | 1518.2 | 1413.0 |
| 22.5° | 12095.2 | 11926.0 | 10759.9 | 7709.8 | 5135.3 | 3516.5 | 2286.4 | 1527.3 | 1285.0 | 1248.4 | 1179.8 |
| 25° | 14185.0 | 13677.4 | 12282.7 | 8363.8 | 4934.1 | 3008.9 | 1724.0 | 1230.1 | 1088.3 | 1060.9 | 1070.1 |
| 27.5° | 15428.8 | 15003.6 | 13691.2 | 8798.2 | 4710.1 | 2620.3 | 1458.7 | 1129.5 | 1033.5 | 974.0 | 951.2 |
| 30° | 16622.4 | 16128.5 | 14390.8 | 9054.3 | 4229.9 | 2208.7 | 1294.1 | 1083.8 | 1060.9 | 974.0 | 946.6 |
| 32.5° | 17541.5 | 17056.8 | 15401.4 | 9438.4 | 4033.3 | 1943.5 | 1065.5 | 846.0 | 786.5 | 777.4 | 859.7 |
| 35° | 18949.9 | 18433.2 | 16265.7 | 9648.7 | 3882.4 | 1806.3 | 923.7 | 754.5 | 685.9 | 658.5 | 663.1 |
| 37.5° | 20262.4 | 19910.3 | 17065.9 | 9731.1 | 3722.3 | 1765.1 | 827.7 | 676.8 | 617.3 | 599.0 | 594.5 |
| 40° | 21359.8 | 20573.3 | 17825.0 | 9817.9 | 3653.7 | 1687.4 | 768.2 | 617.3 | 576.2 | 548.7 | 548.7 |
| 42.5° | 21862.9 | 21062.6 | 18675.6 | 9767.6 | 3635.4 | 1563.9 | 768.2 | 567.0 | 535.0 | 507.6 | 503.0 |
| 45° | 21753.1 | 21428.4 | 19055.1 | 9744.8 | 3635.4 | 1440.5 | 699.6 | 553.3 | 507.6 | 471.0 | 461.9 |
| 47.5° | 22036.6 | 21611.4 | 19530.7 | 9840.8 | 3562.3 | 1353.6 | 589.9 | 580.8 | 480.2 | 434.4 | 425.3 |
| 50° | 22086.9 | 22169.2 | 20358.4 | 10339.2 | 3402.2 | 1243.8 | 461.9 | 571.6 | 461.9 | 393.3 | 384.1 |
| 52° | 22416.2 | 21904.0 | 20609.9 | 10604.5 | 3233.0 | 1161.5 | 388.7 | 489.3 | 443.6 | 365.8 | 356.7 |
| 52.5° | 21963.5 | 22297.3 | 20669.3 | 10700.5 | 3251.3 | 1106.6 | 375.0 | 480.2 | 434.4 | 365.8 | 343.0 |
| 55° | 21455.9 | 21776.0 | 20427.0 | 10906.3 | 2981.5 | 868.8 | 292.7 | 347.5 | 393.3 | 320.1 | 306.4 |
| 57.5° | 18648.1 | 18972.8 | 17751.9 | 9987.1 | 2428.2 | 612.8 | 242.4 | 260.7 | 347.5 | 297.2 | 283.5 |
| 60° | 16576.6 | 16343.4 | 14898.4 | 8331.8 | 1724.0 | 343.0 | 192.1 | 201.2 | 379.5 | 274.4 | 269.8 |
| 62.5° | 15149.9 | 14651.5 | 12451.9 | 6434.0 | 1051.8 | 228.6 | 150.9 | 155.5 | 292.7 | 256.1 | 256.1 |
| 65° | 11208.1 | 10650.2 | 8272.3 | 3891.5 | 516.7 | 160.1 | 114.3 | 123.5 | 182.9 | 219.5 | 219.5 |
| 67.5° | 6397.4 | 6182.5 | 3996.7 | 1756.0 | 214.9 | 100.6 | 86.9 | 96.0 | 141.8 | 178.3 | 169.2 |
| 70° | 2940.4 | 2638.5 | 1536.5 | 370.4 | 100.6 | 68.6 | 68.6 | 77.7 | 114.3 | 132.6 | 123.5 |
| 72.5° | 859.7 | 814.0 | 375.0 | 59.4 | 41.2 | 41.2 | 45.7 | 59.4 | 86.9 | 100.6 | 91.5 |
| 75° | 64.0 | 41.2 | 27.4 | 18.3 | 18.3 | 27.4 | 36.6 | 59.4 | 86.9 | 96.0 | 77.7 |
| 77.5° | 4.6 | 9.1 | 4.6 | 4.6 | 13.7 | 27.4 | 41.2 | 73.2 | 114.3 | 118.9 | 86.9 |
| 80° | 4.6 | 4.6 | 0.0 | 4.6 | 13.7 | 27.4 | 45.7 | 82.3 | 128.0 | 137.2 | 73.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 4.6 | 18.3 | 36.6 | 54.9 | 86.9 | 118.9 | 146.3 | 77.7 |
| 85° | 0.0 | 0.0 | 0.0 | 4.6 | 27.4 | 50.3 | 64.0 | 22.9 | 13.7 | 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 |



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CATALOG NUMBER: GLAN-SA6C-760-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 |
| 2.5° | 9831.7 | 9712.8 | 9667.0 | 9708.2 | 9694.5 | 9680.8 | 9932.3 | 9877.4 | 9868.2 | 9950.6 | 9932.3 |
| 5° | 7380.6 | 7170.3 | 7746.4 | 7513.2 | 7755.6 | 7901.9 | 7929.3 | 7943.1 | 8112.3 | 7933.9 | 8167.1 |
| 7.5° | 5258.8 | 5313.7 | 5309.1 | 5464.6 | 5743.5 | 5990.5 | 6136.8 | 6022.5 | 6013.3 | 5990.5 | 5889.8 |
| 10° | 4202.5 | 4106.4 | 4088.1 | 4051.6 | 4138.4 | 4348.8 | 4527.1 | 4385.4 | 4284.8 | 4422.0 | 4380.8 |
| 12.5° | 3434.2 | 3301.6 | 3228.4 | 3082.1 | 3086.7 | 3228.4 | 3228.4 | 3228.4 | 3329.0 | 3406.8 | 3466.2 |
| 15° | 2634.0 | 2524.2 | 2524.2 | 2377.9 | 2345.9 | 2350.5 | 2423.6 | 2432.8 | 2592.8 | 2638.5 | 2661.4 |
| 17.5° | 1842.9 | 1783.4 | 1852.0 | 1911.5 | 1874.9 | 1884.0 | 1911.5 | 1920.6 | 1943.5 | 1925.2 | 1970.9 |
| 20° | 1417.6 | 1408.4 | 1426.7 | 1531.9 | 1609.6 | 1655.4 | 1623.4 | 1577.6 | 1550.2 | 1486.2 | 1486.2 |
| 22.5° | 1202.7 | 1221.0 | 1253.0 | 1339.8 | 1440.5 | 1467.9 | 1431.3 | 1326.1 | 1243.8 | 1234.7 | 1239.2 |
| 25° | 1070.1 | 1088.3 | 1138.6 | 1193.5 | 1248.4 | 1294.1 | 1257.5 | 1179.8 | 1134.1 | 1092.9 | 1092.9 |
| 27.5° | 987.7 | 996.9 | 1024.3 | 1065.5 | 1111.2 | 1147.8 | 1134.1 | 1092.9 | 1042.6 | 1024.3 | 983.2 |
| 30° | 923.7 | 937.4 | 969.4 | 978.6 | 1019.7 | 1038.0 | 1015.2 | 1006.0 | 974.0 | 951.2 | 937.4 |
| 32.5° | 891.7 | 887.1 | 910.0 | 919.1 | 923.7 | 937.4 | 910.0 | 923.7 | 919.1 | 882.6 | 868.8 |
| 35° | 672.2 | 708.8 | 768.2 | 818.5 | 832.3 | 850.6 | 846.0 | 827.7 | 777.4 | 736.2 | 685.9 |
| 37.5° | 603.6 | 626.5 | 658.5 | 699.6 | 754.5 | 777.4 | 768.2 | 722.5 | 663.1 | 635.6 | 626.5 |
| 40° | 557.9 | 571.6 | 599.0 | 626.5 | 681.4 | 722.5 | 690.5 | 649.3 | 603.6 | 580.8 | 567.0 |
| 42.5° | 516.7 | 521.3 | 535.0 | 562.5 | 603.6 | 667.6 | 612.8 | 557.9 | 539.6 | 525.9 | 516.7 |
| 45° | 471.0 | 471.0 | 489.3 | 503.0 | 548.7 | 608.2 | 553.3 | 503.0 | 493.9 | 484.7 | 480.2 |
| 47.5° | 434.4 | 439.0 | 448.1 | 466.4 | 503.0 | 544.2 | 507.6 | 466.4 | 443.6 | 439.0 | 429.8 |
| 50° | 388.7 | 393.3 | 411.6 | 429.8 | 475.6 | 498.4 | 475.6 | 429.8 | 407.0 | 393.3 | 393.3 |
| 52° | 352.1 | 365.8 | 384.1 | 420.7 | 452.7 | 489.3 | 461.9 | 411.6 | 384.1 | 370.4 | 361.3 |
| 52.5° | 347.5 | 356.7 | 375.0 | 416.1 | 452.7 | 484.7 | 457.3 | 407.0 | 375.0 | 365.8 | 356.7 |
| 55° | 311.0 | 324.7 | 356.7 | 407.0 | 448.1 | 484.7 | 448.1 | 402.4 | 356.7 | 333.8 | 324.7 |
| 57.5° | 297.2 | 306.4 | 347.5 | 411.6 | 443.6 | 484.7 | 448.1 | 402.4 | 356.7 | 315.5 | 306.4 |
| 60° | 283.5 | 301.8 | 347.5 | 397.8 | 439.0 | 489.3 | 452.7 | 397.8 | 347.5 | 297.2 | 297.2 |
| 62.5° | 269.8 | 283.5 | 343.0 | 388.7 | 420.7 | 471.0 | 434.4 | 388.7 | 333.8 | 283.5 | 278.9 |
| 65° | 233.2 | 256.1 | 301.8 | 324.7 | 361.3 | 407.0 | 370.4 | 338.4 | 292.7 | 251.5 | 246.9 |
| 67.5° | 178.3 | 187.5 | 224.1 | 251.5 | 274.4 | 315.5 | 297.2 | 256.1 | 224.1 | 192.1 | 192.1 |
| 70° | 123.5 | 132.6 | 160.1 | 173.8 | 196.6 | 219.5 | 205.8 | 173.8 | 150.9 | 132.6 | 128.0 |
| 72.5° | 86.9 | 91.5 | 100.6 | 109.7 | 118.9 | 128.0 | 123.5 | 100.6 | 86.9 | 82.3 | 77.7 |
| 75° | 68.6 | 77.7 | 82.3 | 77.7 | 73.2 | 68.6 | 68.6 | 59.4 | 50.3 | 45.7 | 45.7 |
| 77.5° | 68.6 | 73.2 | 68.6 | 59.4 | 50.3 | 45.7 | 41.2 | 36.6 | 27.4 | 22.9 | 27.4 |
| 80° | 59.4 | 59.4 | 59.4 | 50.3 | 45.7 | 41.2 | 36.6 | 32.0 | 27.4 | 22.9 | 22.9 |
| 82.5° | 64.0 | 64.0 | 59.4 | 50.3 | 50.3 | 41.2 | 41.2 | 36.6 | 32.0 | 22.9 | 22.9 |
| 85° | 0.0 | 0.0 | 0.0 | 9.1 | 22.9 | 41.2 | 41.2 | 36.6 | 32.0 | 27.4 | 27.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 9.1 | 18.3 | 22.9 | 27.4 | 27.4 | 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: GLAN-SA6C-760-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 |
| 2.5° | 10096.9 | 10270.7 | 10599.9 | 10929.1 | 11130.4 | 11368.1 | 11798.0 | 12026.6 | 12323.9 | 12470.2 | 12758.3 |
| 5° | 8135.1 | 8546.7 | 8693.0 | 9068.0 | 9470.4 | 9872.8 | 10513.0 | 11217.2 | 11802.6 | 12205.0 | 12726.3 |
| 7.5° | 5935.6 | 6031.6 | 6598.6 | 6850.2 | 7508.6 | 8240.3 | 9113.7 | 10000.9 | 10741.7 | 11400.2 | 11798.0 |
| 10° | 4449.4 | 4801.5 | 5158.2 | 5638.3 | 6168.8 | 6923.3 | 7760.2 | 8738.7 | 9699.0 | 10357.5 | 10860.6 |
| 12.5° | 3576.0 | 3854.9 | 4330.5 | 4847.2 | 5501.2 | 5999.6 | 6841.0 | 7810.5 | 9054.3 | 9699.0 | 10362.1 |
| 15° | 2707.1 | 3063.8 | 3603.4 | 4138.4 | 4828.9 | 5354.8 | 6205.4 | 7426.3 | 9026.8 | 9914.0 | 10485.6 |
| 17.5° | 2007.5 | 2249.8 | 2734.6 | 3333.6 | 4037.8 | 4778.6 | 5926.4 | 7385.2 | 9333.2 | 10389.5 | 10979.4 |
| 20° | 1536.5 | 1618.8 | 1925.2 | 2460.2 | 3223.9 | 4193.3 | 5473.7 | 7563.5 | 10238.6 | 11546.5 | 12145.5 |
| 22.5° | 1243.8 | 1280.4 | 1399.3 | 1769.7 | 2510.5 | 3681.2 | 5258.8 | 7687.0 | 11258.4 | 12932.1 | 13732.3 |
| 25° | 1083.8 | 1074.6 | 1152.4 | 1312.4 | 1961.8 | 3201.0 | 4984.4 | 8153.4 | 12506.8 | 14560.0 | 15277.9 |
| 27.5° | 987.7 | 987.7 | 1024.3 | 1138.6 | 1627.9 | 2890.1 | 4810.7 | 8487.2 | 13764.3 | 15991.3 | 16380.0 |
| 30° | 937.4 | 946.6 | 1051.8 | 1088.3 | 1353.6 | 2519.6 | 4522.6 | 8825.6 | 14967.0 | 16905.9 | 17440.9 |
| 32.5° | 868.8 | 832.3 | 809.4 | 900.9 | 1138.6 | 2185.8 | 4234.5 | 8967.4 | 15941.0 | 18026.2 | 18483.5 |
| 35° | 667.6 | 649.3 | 676.8 | 745.4 | 978.6 | 1902.3 | 3914.4 | 9127.4 | 17061.4 | 19324.9 | 19416.4 |
| 37.5° | 603.6 | 599.0 | 617.3 | 676.8 | 823.1 | 1655.4 | 3685.7 | 9086.3 | 17916.5 | 20399.5 | 20152.6 |
| 40° | 557.9 | 557.9 | 571.6 | 621.9 | 736.2 | 1481.6 | 3447.9 | 9049.7 | 18744.2 | 21606.8 | 20884.3 |
| 42.5° | 521.3 | 521.3 | 544.2 | 576.2 | 699.6 | 1367.3 | 3269.6 | 8999.4 | 19439.2 | 22347.6 | 21314.1 |
| 45° | 471.0 | 484.7 | 521.3 | 553.3 | 708.8 | 1289.5 | 3137.0 | 8807.3 | 19677.0 | 22338.4 | 21108.3 |
| 47.5° | 434.4 | 452.7 | 489.3 | 535.0 | 640.2 | 1266.7 | 3045.5 | 8638.1 | 19594.7 | 21789.7 | 20463.6 |
| 50° | 393.3 | 416.1 | 466.4 | 544.2 | 544.2 | 1221.0 | 2949.5 | 8789.0 | 19535.3 | 21364.4 | 19846.2 |
| 52° | 365.8 | 384.1 | 448.1 | 530.5 | 475.6 | 1124.9 | 2890.1 | 9081.7 | 19777.6 | 21309.5 | 19571.9 |
| 52.5° | 361.3 | 375.0 | 434.4 | 521.3 | 452.7 | 1106.6 | 2848.9 | 9150.3 | 19855.4 | 21172.4 | 19759.3 |
| 55° | 320.1 | 338.4 | 397.8 | 407.0 | 370.4 | 910.0 | 2716.3 | 9305.8 | 19471.3 | 20902.6 | 19581.0 |
| 57.5° | 301.8 | 311.0 | 352.1 | 333.8 | 320.1 | 685.9 | 2336.7 | 9063.4 | 17294.6 | 18565.8 | 18218.3 |
| 60° | 278.9 | 288.1 | 329.2 | 260.7 | 269.8 | 480.2 | 1756.0 | 7869.9 | 13887.8 | 15470.0 | 16096.5 |
| 62.5° | 269.8 | 265.2 | 311.0 | 210.4 | 228.6 | 347.5 | 1239.2 | 6397.4 | 10700.5 | 12735.4 | 13819.2 |
| 65° | 237.8 | 233.2 | 224.1 | 178.3 | 196.6 | 269.8 | 740.8 | 4175.0 | 7540.7 | 9635.0 | 10229.5 |
| 67.5° | 182.9 | 192.1 | 164.6 | 141.8 | 164.6 | 210.4 | 411.6 | 1870.3 | 3955.5 | 5780.1 | 6260.3 |
| 70° | 128.0 | 137.2 | 132.6 | 123.5 | 146.3 | 173.8 | 237.8 | 640.2 | 1637.1 | 3036.4 | 3347.3 |
| 72.5° | 77.7 | 96.0 | 100.6 | 105.2 | 128.0 | 150.9 | 169.2 | 205.8 | 434.4 | 1074.6 | 1335.3 |
| 75° | 45.7 | 64.0 | 77.7 | 91.5 | 105.2 | 128.0 | 141.8 | 146.3 | 150.9 | 201.2 | 324.7 |
| 77.5° | 32.0 | 45.7 | 68.6 | 86.9 | 105.2 | 128.0 | 150.9 | 160.1 | 150.9 | 141.8 | 150.9 |
| 80° | 27.4 | 45.7 | 64.0 | 82.3 | 109.7 | 132.6 | 150.9 | 150.9 | 146.3 | 128.0 | 137.2 |
| 82.5° | 27.4 | 45.7 | 68.6 | 86.9 | 105.2 | 128.0 | 146.3 | 150.9 | 137.2 | 128.0 | 132.6 |
| 85° | 32.0 | 50.3 | 73.2 | 91.5 | 114.3 | 105.2 | 96.0 | 77.7 | 73.2 | 59.4 | 64.0 |
| 87.5° | 32.0 | 45.7 | 45.7 | 50.3 | 54.9 | 54.9 | 54.9 | 50.3 | 41.2 | 36.6 | 36.6 |
| 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° | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 | 11688.2 |
| 2.5° | 12772.0 | 13137.8 | 13124.1 | 13133.3 | 13078.4 | 12708.0 | 12529.6 | 12076.9 | 12205.0 | 12150.1 |
| 5° | 13261.3 | 13622.6 | 13933.5 | 13896.9 | 13476.2 | 12973.2 | 12227.8 | 11523.6 | 11331.6 | 11048.0 |
| 7.5° | 12772.0 | 13640.9 | 13928.9 | 13887.8 | 13265.9 | 12621.1 | 11432.2 | 10727.9 | 10394.1 | 10206.6 |
| 10° | 11994.6 | 13000.7 | 13357.3 | 13430.5 | 13009.8 | 12031.2 | 10938.3 | 9808.8 | 9630.5 | 9305.8 |
| 12.5° | 11551.1 | 12282.7 | 12502.2 | 12698.8 | 12552.5 | 11820.9 | 10563.3 | 9479.5 | 9232.6 | 9017.7 |
| 15° | 11189.8 | 11624.2 | 11715.7 | 11939.7 | 12026.6 | 11633.4 | 10759.9 | 9836.2 | 9228.0 | 9205.2 |
| 17.5° | 11523.6 | 11345.3 | 11011.5 | 11080.1 | 11354.4 | 11637.9 | 11267.5 | 10540.5 | 9950.6 | 9877.4 |
| 20° | 12076.9 | 11290.4 | 10535.9 | 10705.1 | 10933.7 | 11802.6 | 12035.8 | 11523.6 | 11185.2 | 10997.7 |
| 22.5° | 12712.6 | 11386.4 | 10385.0 | 10467.3 | 10901.7 | 12173.0 | 13279.6 | 12996.1 | 12365.0 | 12095.2 |
| 25° | 13887.8 | 11651.7 | 10503.9 | 10558.7 | 11153.2 | 12689.7 | 14404.5 | 14614.9 | 14239.9 | 14185.0 |
| 27.5° | 15035.6 | 12337.6 | 10764.5 | 10641.1 | 11281.3 | 13192.7 | 15085.9 | 16215.4 | 15556.9 | 15428.8 |
| 30° | 15620.9 | 12895.5 | 11153.2 | 10942.9 | 11811.7 | 13499.1 | 15497.4 | 17258.0 | 16681.8 | 16622.4 |
| 32.5° | 16517.2 | 13403.1 | 11455.0 | 11185.2 | 12108.9 | 13878.6 | 16265.7 | 18396.6 | 17838.7 | 17541.5 |
| 35° | 16892.2 | 13956.4 | 12118.1 | 11802.6 | 12959.5 | 14409.1 | 16658.9 | 19411.8 | 19238.0 | 18949.9 |
| 37.5° | 17614.7 | 14550.9 | 12900.1 | 12881.8 | 13988.4 | 15099.6 | 17367.7 | 20792.8 | 20760.8 | 20262.4 |
| 40° | 17674.1 | 15200.2 | 14134.7 | 14710.9 | 15579.7 | 16302.3 | 17989.6 | 21176.9 | 21698.2 | 21359.8 |
| 42.5° | 17765.6 | 16338.8 | 16270.3 | 16745.8 | 17491.2 | 17335.7 | 18012.5 | 21268.4 | 22064.1 | 21862.9 |
| 45° | 17806.7 | 17477.5 | 18442.4 | 19320.4 | 19631.3 | 18689.3 | 17797.6 | 21094.6 | 22256.1 | 21753.1 |
| 47.5° | 17477.5 | 18456.1 | 20198.3 | 21894.9 | 21986.3 | 19521.6 | 17706.1 | 20916.3 | 22370.5 | 22036.6 |
| 50° | 17523.2 | 19068.8 | 21716.5 | 23234.7 | 22900.9 | 20257.8 | 17564.4 | 20806.5 | 22311.0 | 22086.9 |
| 52° | 17413.5 | 19082.6 | 21931.5 | 23207.3 | 22974.1 | 19850.8 | 17322.0 | 20385.8 | 22256.1 | 22416.2 |
| 52.5° | 17536.9 | 19000.3 | 21707.4 | 23225.6 | 22923.8 | 20052.0 | 17290.0 | 20619.0 | 22288.1 | 21963.5 |
| 55° | 17111.7 | 18021.7 | 20395.0 | 21039.7 | 20994.0 | 18200.0 | 16306.8 | 19846.2 | 21451.3 | 21455.9 |
| 57.5° | 15465.4 | 15620.9 | 15995.9 | 15982.2 | 15771.8 | 14308.5 | 13947.2 | 18250.3 | 19123.7 | 18648.1 |
| 60° | 13627.1 | 11436.7 | 10426.1 | 10014.6 | 9781.4 | 9543.6 | 12337.6 | 16695.5 | 16777.8 | 16576.6 |
| 62.5° | 11775.1 | 7929.3 | 6584.9 | 6470.6 | 6525.5 | 7394.3 | 11926.0 | 16078.2 | 15584.3 | 15149.9 |
| 65° | 9502.4 | 5780.1 | 4783.2 | 4632.3 | 5167.3 | 6104.8 | 9653.3 | 12328.4 | 11569.3 | 11208.1 |
| 67.5° | 5967.6 | 4216.2 | 3233.0 | 2949.5 | 3594.3 | 4202.5 | 6342.6 | 7746.4 | 6895.9 | 6397.4 |
| 70° | 3539.4 | 2355.0 | 1463.3 | 1312.4 | 1477.0 | 2240.7 | 3553.1 | 3864.1 | 3196.4 | 2940.4 |
| 72.5° | 1394.7 | 864.3 | 407.0 | 347.5 | 361.3 | 786.5 | 1307.8 | 1275.8 | 964.9 | 859.7 |
| 75° | 375.0 | 260.7 | 141.8 | 114.3 | 96.0 | 146.3 | 210.4 | 137.2 | 50.3 | 64.0 |
| 77.5° | 173.8 | 155.5 | 123.5 | 96.0 | 73.2 | 54.9 | 27.4 | 9.1 | 9.1 | 4.6 |
| 80° | 150.9 | 132.6 | 114.3 | 96.0 | 73.2 | 45.7 | 22.9 | 4.6 | 4.6 | 4.6 |
| 82.5° | 141.8 | 123.5 | 105.2 | 86.9 | 68.6 | 45.7 | 22.9 | 4.6 | 0.0 | 0.0 |
| 85° | 59.4 | 77.7 | 86.9 | 82.3 | 73.2 | 45.7 | 22.9 | 4.6 | 0.0 | 0.0 |
| 87.5° | 32.0 | 27.4 | 22.9 | 18.3 | 13.7 | 9.1 | 9.1 | 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 |

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