

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: P526937

Luminaire Tested: **GALN-SA1D-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526937  
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: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-830-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 3439 lumens  
Efficiency: N/A  
Efficacy: 52.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

Input Watts (W): 65  
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



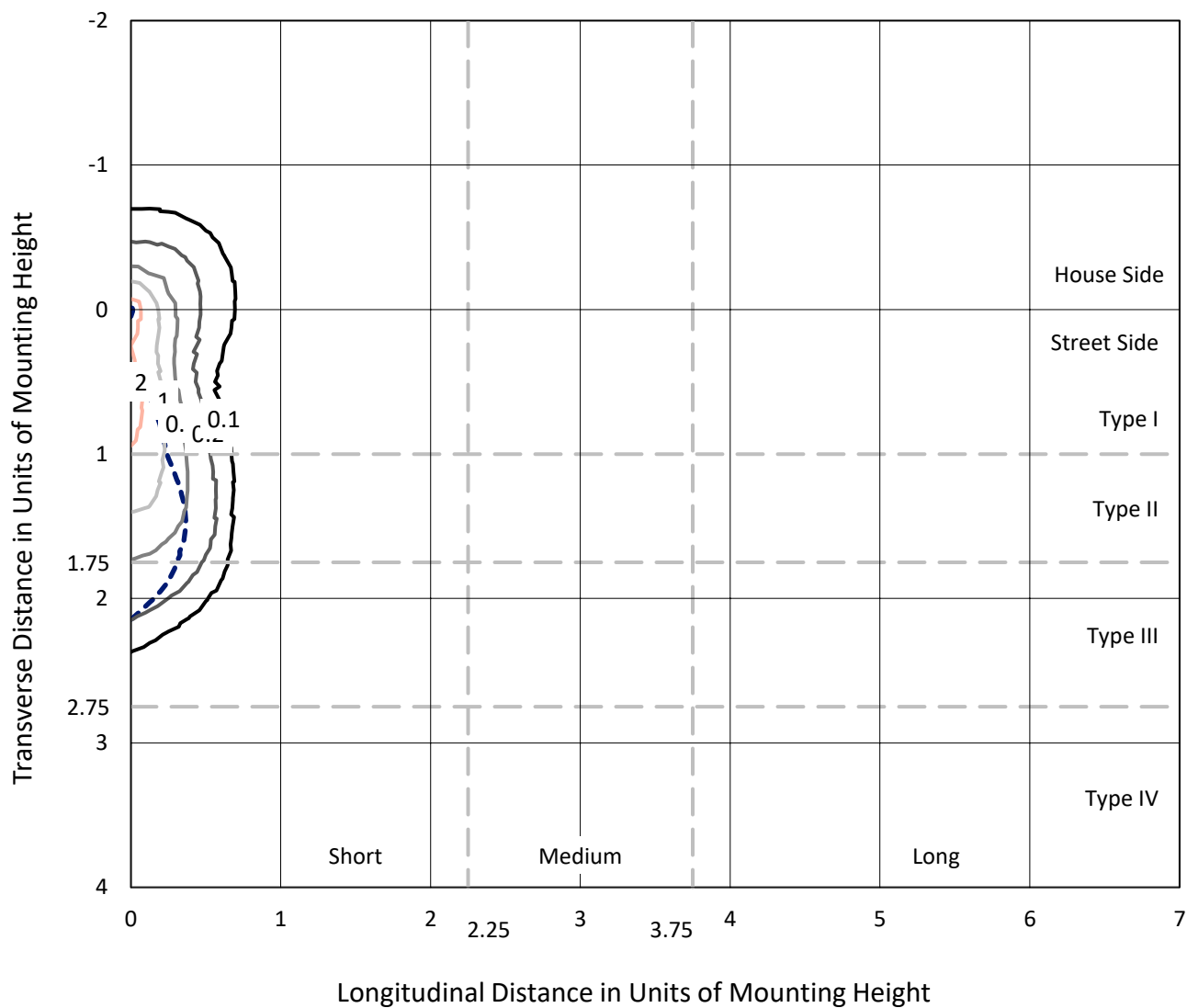
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



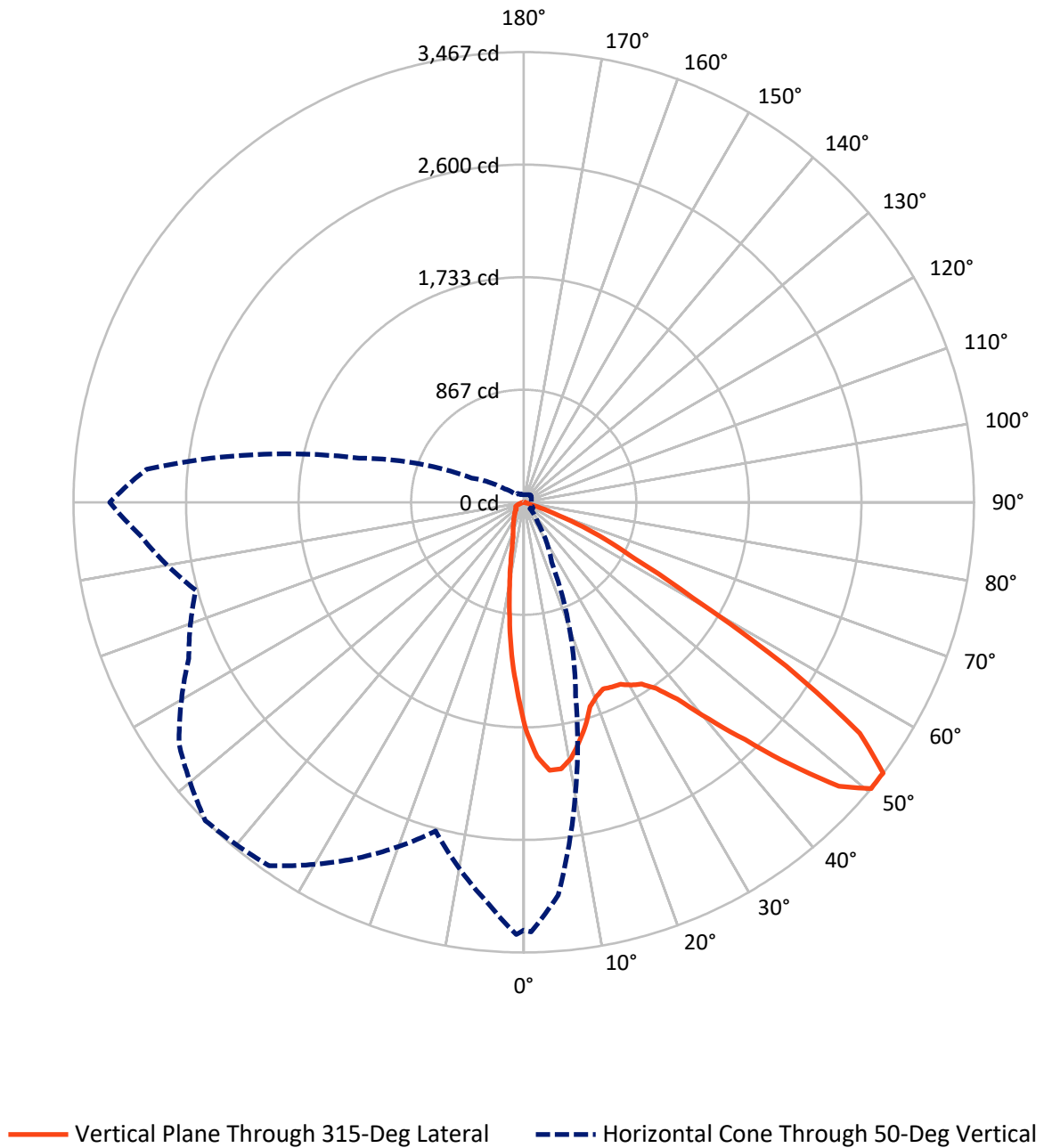
Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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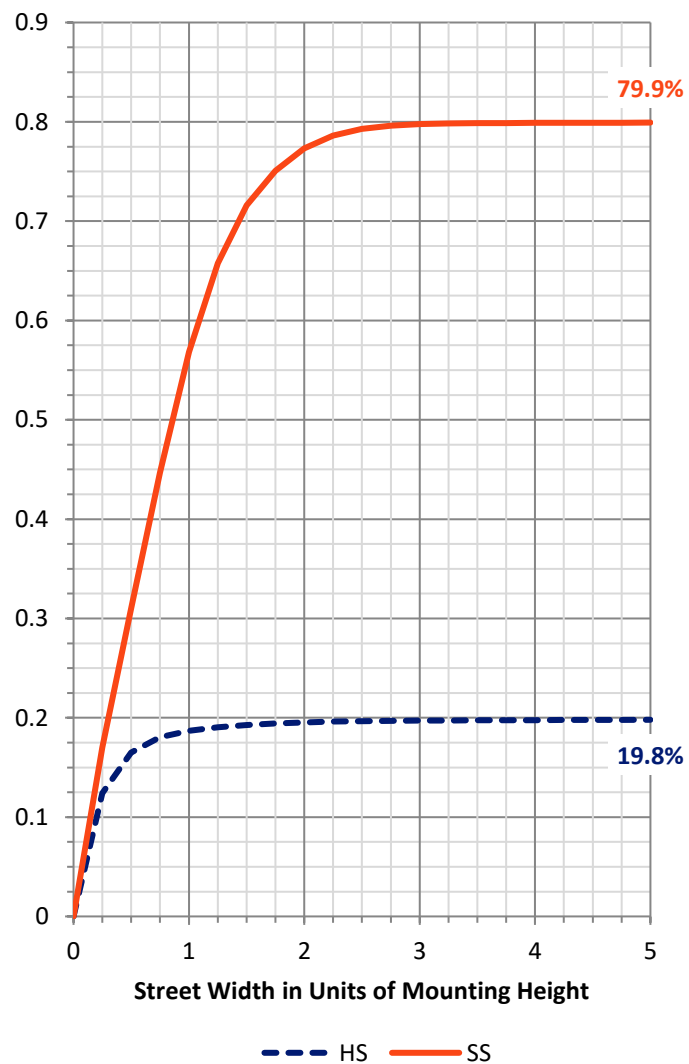
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 688.8    | 0.0    | 688.8  |
|                    | % Fixture | 20.0     | 0.0    | 20.0   |
| <b>Street Side</b> | Lumens    | 2750.2   | 0.0    | 2750.2 |
|                    | % Fixture | 80.0     | 0.0    | 80.0   |
| <b>Total</b>       | Lumens    | 3439.0   | 0.0    | 3439.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.1  | 3.7       |
| 10°-20°   | 252.6  | 7.3       |
| 20°-30°   | 379.5  | 11.0      |
| 30°-40°   | 569.7  | 16.6      |
| 40°-50°   | 800.7  | 23.3      |
| 50°-60°   | 863.7  | 25.1      |
| 60°-70°   | 401.0  | 11.7      |
| 70°-80°   | 37.7   | 1.1       |
| 80°-90°   | 7.0    | 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°    | 3439.0 | 100.0     |
| 0°-180°   | 3439.0 | 100.0     |

**Coefficient of Utilization**



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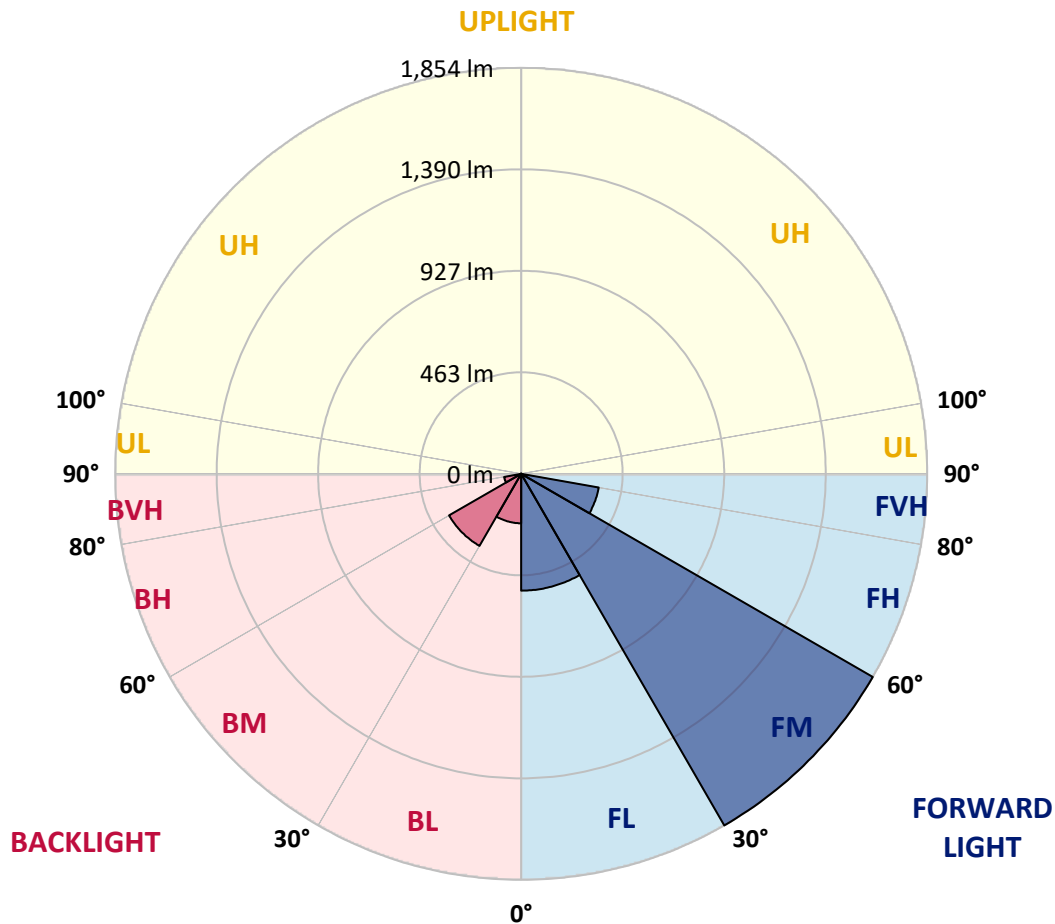
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 533.5  | 15.5      |                         |      |        |
| FM   | (30°-60°)   | 1853.9 | 53.9      |                         |      |        |
| FH   | (60°-80°)   | 359.6  | 10.5      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 3.1    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 225.8  | 6.6       | B1/500                  |      |        |
| BM   | (30°-60°)   | 380.1  | 11.1      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 79.1   | 2.3       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 3.8    | 0.1       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 |
| 2.5°  | 1812.9 | 1784.9 | 1749.5 | 1720.1 | 1676.5 | 1588.4 | 1564.6 | 1535.9 | 1512.0 | 1479.9 | 1434.9 |
| 5°    | 1648.5 | 1639.6 | 1623.2 | 1512.7 | 1432.9 | 1326.4 | 1239.1 | 1202.2 | 1153.8 | 1114.2 | 1085.6 |
| 7.5°  | 1522.9 | 1487.5 | 1435.6 | 1324.4 | 1196.8 | 1082.8 | 986.0  | 929.3  | 865.2  | 843.3  | 804.5  |
| 10°   | 1388.5 | 1396.7 | 1320.3 | 1164.0 | 1009.8 | 917.7  | 857.7  | 803.1  | 745.1  | 706.9  | 651.6  |
| 12.5° | 1345.5 | 1318.9 | 1260.2 | 1067.1 | 935.5  | 849.5  | 776.5  | 708.9  | 647.5  | 586.1  | 532.9  |
| 15°   | 1373.5 | 1332.6 | 1250.7 | 1046.7 | 878.1  | 771.0  | 679.6  | 588.2  | 531.5  | 453.1  | 397.8  |
| 17.5° | 1473.8 | 1441.1 | 1331.2 | 1068.5 | 848.8  | 696.0  | 560.2  | 466.0  | 379.4  | 308.4  | 280.4  |
| 20°   | 1641.0 | 1594.6 | 1456.8 | 1096.5 | 805.1  | 605.2  | 454.4  | 338.4  | 256.6  | 226.5  | 210.8  |
| 22.5° | 1804.7 | 1779.5 | 1605.5 | 1150.4 | 766.2  | 524.7  | 341.2  | 227.9  | 191.7  | 186.3  | 176.0  |
| 25°   | 2116.6 | 2040.8 | 1832.7 | 1248.0 | 736.2  | 449.0  | 257.2  | 183.5  | 162.4  | 158.3  | 159.7  |
| 27.5° | 2302.1 | 2238.7 | 2042.9 | 1312.8 | 702.8  | 391.0  | 217.7  | 168.5  | 154.2  | 145.3  | 141.9  |
| 30°   | 2480.2 | 2406.5 | 2147.3 | 1351.0 | 631.1  | 329.6  | 193.1  | 161.7  | 158.3  | 145.3  | 141.2  |
| 32.5° | 2617.4 | 2545.0 | 2298.0 | 1408.3 | 601.8  | 290.0  | 159.0  | 126.2  | 117.4  | 116.0  | 128.3  |
| 35°   | 2827.5 | 2750.4 | 2427.0 | 1439.7 | 579.3  | 269.5  | 137.8  | 112.6  | 102.3  | 98.3   | 98.9   |
| 37.5° | 3023.4 | 2970.8 | 2546.4 | 1452.0 | 555.4  | 263.4  | 123.5  | 101.0  | 92.1   | 89.4   | 88.7   |
| 40°   | 3187.1 | 3069.8 | 2659.7 | 1464.9 | 545.2  | 251.8  | 114.6  | 92.1   | 86.0   | 81.9   | 81.9   |
| 42.5° | 3262.2 | 3142.8 | 2786.6 | 1457.4 | 542.4  | 233.4  | 114.6  | 84.6   | 79.8   | 75.7   | 75.1   |
| 45°   | 3245.8 | 3197.3 | 2843.2 | 1454.0 | 542.4  | 214.9  | 104.4  | 82.6   | 75.7   | 70.3   | 68.9   |
| 47.5° | 3288.1 | 3224.6 | 2914.2 | 1468.3 | 531.5  | 202.0  | 88.0   | 86.7   | 71.6   | 64.8   | 63.5   |
| 50°   | 3295.6 | 3307.9 | 3037.7 | 1542.7 | 507.6  | 185.6  | 68.9   | 85.3   | 68.9   | 58.7   | 57.3   |
| 52°   | 3344.7 | 3268.3 | 3075.2 | 1582.3 | 482.4  | 173.3  | 58.0   | 73.0   | 66.2   | 54.6   | 53.2   |
| 52.5° | 3277.2 | 3327.0 | 3084.1 | 1596.6 | 485.1  | 165.1  | 56.0   | 71.6   | 64.8   | 54.6   | 51.2   |
| 55°   | 3201.4 | 3249.2 | 3047.9 | 1627.3 | 444.9  | 129.6  | 43.7   | 51.9   | 58.7   | 47.8   | 45.7   |
| 57.5° | 2782.5 | 2830.9 | 2648.8 | 1490.2 | 362.3  | 91.4   | 36.2   | 38.9   | 51.9   | 44.4   | 42.3   |
| 60°   | 2473.4 | 2438.6 | 2223.0 | 1243.2 | 257.2  | 51.2   | 28.7   | 30.0   | 56.6   | 40.9   | 40.3   |
| 62.5° | 2260.5 | 2186.1 | 1858.0 | 960.0  | 156.9  | 34.1   | 22.5   | 23.2   | 43.7   | 38.2   | 38.2   |
| 65°   | 1672.4 | 1589.1 | 1234.3 | 580.7  | 77.1   | 23.9   | 17.1   | 18.4   | 27.3   | 32.8   | 32.8   |
| 67.5° | 954.6  | 922.5  | 596.3  | 262.0  | 32.1   | 15.0   | 13.0   | 14.3   | 21.2   | 26.6   | 25.2   |
| 70°   | 438.7  | 393.7  | 229.3  | 55.3   | 15.0   | 10.2   | 10.2   | 11.6   | 17.1   | 19.8   | 18.4   |
| 72.5° | 128.3  | 121.5  | 56.0   | 8.9    | 6.1    | 6.1    | 6.8    | 8.9    | 13.0   | 15.0   | 13.6   |
| 75°   | 9.6    | 6.1    | 4.1    | 2.7    | 2.7    | 4.1    | 5.5    | 8.9    | 13.0   | 14.3   | 11.6   |
| 77.5° | 0.7    | 1.4    | 0.7    | 0.7    | 2.0    | 4.1    | 6.1    | 10.9   | 17.1   | 17.7   | 13.0   |
| 80°   | 0.7    | 0.7    | 0.0    | 0.7    | 2.0    | 4.1    | 6.8    | 12.3   | 19.1   | 20.5   | 10.9   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.7    | 2.7    | 5.5    | 8.2    | 13.0   | 17.7   | 21.8   | 11.6   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.7    | 4.1    | 7.5    | 9.6    | 3.4    | 2.0    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 |
| 2.5°  | 1467.0 | 1449.2 | 1442.4 | 1448.6 | 1446.5 | 1444.5 | 1482.0 | 1473.8 | 1472.4 | 1484.7 | 1482.0 |
| 5°    | 1101.3 | 1069.9 | 1155.8 | 1121.0 | 1157.2 | 1179.0 | 1183.1 | 1185.2 | 1210.4 | 1183.8 | 1218.6 |
| 7.5°  | 784.7  | 792.9  | 792.2  | 815.4  | 857.0  | 893.8  | 915.7  | 898.6  | 897.2  | 893.8  | 878.8  |
| 10°   | 627.1  | 612.7  | 610.0  | 604.5  | 617.5  | 648.9  | 675.5  | 654.3  | 639.3  | 659.8  | 653.7  |
| 12.5° | 512.4  | 492.6  | 481.7  | 459.9  | 460.6  | 481.7  | 481.7  | 481.7  | 496.7  | 508.3  | 517.2  |
| 15°   | 393.0  | 376.6  | 376.6  | 354.8  | 350.0  | 350.7  | 361.6  | 363.0  | 386.9  | 393.7  | 397.1  |
| 17.5° | 275.0  | 266.1  | 276.3  | 285.2  | 279.8  | 281.1  | 285.2  | 286.6  | 290.0  | 287.3  | 294.1  |
| 20°   | 211.5  | 210.2  | 212.9  | 228.6  | 240.2  | 247.0  | 242.2  | 235.4  | 231.3  | 221.8  | 221.8  |
| 22.5° | 179.4  | 182.2  | 187.0  | 199.9  | 214.9  | 219.0  | 213.6  | 197.9  | 185.6  | 184.2  | 184.9  |
| 25°   | 159.7  | 162.4  | 169.9  | 178.1  | 186.3  | 193.1  | 187.6  | 176.0  | 169.2  | 163.1  | 163.1  |
| 27.5° | 147.4  | 148.7  | 152.8  | 159.0  | 165.8  | 171.3  | 169.2  | 163.1  | 155.6  | 152.8  | 146.7  |
| 30°   | 137.8  | 139.9  | 144.7  | 146.0  | 152.2  | 154.9  | 151.5  | 150.1  | 145.3  | 141.9  | 139.9  |
| 32.5° | 133.1  | 132.4  | 135.8  | 137.1  | 137.8  | 139.9  | 135.8  | 137.8  | 137.1  | 131.7  | 129.6  |
| 35°   | 100.3  | 105.8  | 114.6  | 122.1  | 124.2  | 126.9  | 126.2  | 123.5  | 116.0  | 109.9  | 102.3  |
| 37.5° | 90.1   | 93.5   | 98.3   | 104.4  | 112.6  | 116.0  | 114.6  | 107.8  | 98.9   | 94.8   | 93.5   |
| 40°   | 83.2   | 85.3   | 89.4   | 93.5   | 101.7  | 107.8  | 103.0  | 96.9   | 90.1   | 86.7   | 84.6   |
| 42.5° | 77.1   | 77.8   | 79.8   | 83.9   | 90.1   | 99.6   | 91.4   | 83.2   | 80.5   | 78.5   | 77.1   |
| 45°   | 70.3   | 70.3   | 73.0   | 75.1   | 81.9   | 90.7   | 82.6   | 75.1   | 73.7   | 72.3   | 71.6   |
| 47.5° | 64.8   | 65.5   | 66.9   | 69.6   | 75.1   | 81.2   | 75.7   | 69.6   | 66.2   | 65.5   | 64.1   |
| 50°   | 58.0   | 58.7   | 61.4   | 64.1   | 71.0   | 74.4   | 71.0   | 64.1   | 60.7   | 58.7   | 58.7   |
| 52°   | 52.5   | 54.6   | 57.3   | 62.8   | 67.5   | 73.0   | 68.9   | 61.4   | 57.3   | 55.3   | 53.9   |
| 52.5° | 51.9   | 53.2   | 56.0   | 62.1   | 67.5   | 72.3   | 68.2   | 60.7   | 56.0   | 54.6   | 53.2   |
| 55°   | 46.4   | 48.4   | 53.2   | 60.7   | 66.9   | 72.3   | 66.9   | 60.0   | 53.2   | 49.8   | 48.4   |
| 57.5° | 44.4   | 45.7   | 51.9   | 61.4   | 66.2   | 72.3   | 66.9   | 60.0   | 53.2   | 47.1   | 45.7   |
| 60°   | 42.3   | 45.0   | 51.9   | 59.4   | 65.5   | 73.0   | 67.5   | 59.4   | 51.9   | 44.4   | 44.4   |
| 62.5° | 40.3   | 42.3   | 51.2   | 58.0   | 62.8   | 70.3   | 64.8   | 58.0   | 49.8   | 42.3   | 41.6   |
| 65°   | 34.8   | 38.2   | 45.0   | 48.4   | 53.9   | 60.7   | 55.3   | 50.5   | 43.7   | 37.5   | 36.8   |
| 67.5° | 26.6   | 28.0   | 33.4   | 37.5   | 40.9   | 47.1   | 44.4   | 38.2   | 33.4   | 28.7   | 28.7   |
| 70°   | 18.4   | 19.8   | 23.9   | 25.9   | 29.3   | 32.8   | 30.7   | 25.9   | 22.5   | 19.8   | 19.1   |
| 72.5° | 13.0   | 13.6   | 15.0   | 16.4   | 17.7   | 19.1   | 18.4   | 15.0   | 13.0   | 12.3   | 11.6   |
| 75°   | 10.2   | 11.6   | 12.3   | 11.6   | 10.9   | 10.2   | 10.2   | 8.9    | 7.5    | 6.8    | 6.8    |
| 77.5° | 10.2   | 10.9   | 10.2   | 8.9    | 7.5    | 6.8    | 6.1    | 5.5    | 4.1    | 3.4    | 4.1    |
| 80°   | 8.9    | 8.9    | 8.9    | 7.5    | 6.8    | 6.1    | 5.5    | 4.8    | 4.1    | 3.4    | 3.4    |
| 82.5° | 9.6    | 9.6    | 8.9    | 7.5    | 7.5    | 6.1    | 6.1    | 5.5    | 4.8    | 3.4    | 3.4    |
| 85°   | 0.0    | 0.0    | 0.0    | 1.4    | 3.4    | 6.1    | 6.1    | 5.5    | 4.8    | 4.1    | 4.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 1.4    | 2.7    | 3.4    | 4.1    | 4.1    | 4.1    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 |
| 2.5°  | 1506.6 | 1532.5 | 1581.6 | 1630.7 | 1660.8 | 1696.2 | 1760.4 | 1794.5 | 1838.8 | 1860.7 | 1903.7 |
| 5°    | 1213.8 | 1275.3 | 1297.1 | 1353.0 | 1413.1 | 1473.1 | 1568.7 | 1673.7 | 1761.1 | 1821.1 | 1898.9 |
| 7.5°  | 885.6  | 900.0  | 984.6  | 1022.1 | 1120.4 | 1229.5 | 1359.9 | 1492.2 | 1602.8 | 1701.0 | 1760.4 |
| 10°   | 663.9  | 716.4  | 769.7  | 841.3  | 920.4  | 1033.0 | 1157.9 | 1303.9 | 1447.2 | 1545.5 | 1620.5 |
| 12.5° | 533.6  | 575.2  | 646.2  | 723.3  | 820.8  | 895.2  | 1020.7 | 1165.4 | 1351.0 | 1447.2 | 1546.1 |
| 15°   | 403.9  | 457.2  | 537.7  | 617.5  | 720.5  | 799.0  | 925.9  | 1108.1 | 1346.9 | 1479.3 | 1564.6 |
| 17.5° | 299.5  | 335.7  | 408.0  | 497.4  | 602.5  | 713.0  | 884.3  | 1101.9 | 1392.6 | 1550.2 | 1638.2 |
| 20°   | 229.3  | 241.5  | 287.3  | 367.1  | 481.0  | 625.7  | 816.7  | 1128.6 | 1527.7 | 1722.9 | 1812.2 |
| 22.5° | 185.6  | 191.0  | 208.8  | 264.1  | 374.6  | 549.3  | 784.7  | 1147.0 | 1679.9 | 1929.6 | 2049.0 |
| 25°   | 161.7  | 160.3  | 171.9  | 195.8  | 292.7  | 477.6  | 743.7  | 1216.6 | 1866.1 | 2172.5 | 2279.6 |
| 27.5° | 147.4  | 147.4  | 152.8  | 169.9  | 242.9  | 431.2  | 717.8  | 1266.4 | 2053.8 | 2386.1 | 2444.1 |
| 30°   | 139.9  | 141.2  | 156.9  | 162.4  | 202.0  | 376.0  | 674.8  | 1316.9 | 2233.2 | 2522.5 | 2602.4 |
| 32.5° | 129.6  | 124.2  | 120.8  | 134.4  | 169.9  | 326.1  | 631.8  | 1338.0 | 2378.6 | 2689.7 | 2757.9 |
| 35°   | 99.6   | 96.9   | 101.0  | 111.2  | 146.0  | 283.8  | 584.1  | 1361.9 | 2545.7 | 2883.5 | 2897.1 |
| 37.5° | 90.1   | 89.4   | 92.1   | 101.0  | 122.8  | 247.0  | 549.9  | 1355.8 | 2673.3 | 3043.8 | 3007.0 |
| 40°   | 83.2   | 83.2   | 85.3   | 92.8   | 109.9  | 221.1  | 514.5  | 1350.3 | 2796.8 | 3224.0 | 3116.1 |
| 42.5° | 77.8   | 77.8   | 81.2   | 86.0   | 104.4  | 204.0  | 487.9  | 1342.8 | 2900.5 | 3334.5 | 3180.3 |
| 45°   | 70.3   | 72.3   | 77.8   | 82.6   | 105.8  | 192.4  | 468.1  | 1314.1 | 2936.0 | 3333.1 | 3149.6 |
| 47.5° | 64.8   | 67.5   | 73.0   | 79.8   | 95.5   | 189.0  | 454.4  | 1288.9 | 2923.7 | 3251.2 | 3053.4 |
| 50°   | 58.7   | 62.1   | 69.6   | 81.2   | 81.2   | 182.2  | 440.1  | 1311.4 | 2914.9 | 3187.8 | 2961.3 |
| 52°   | 54.6   | 57.3   | 66.9   | 79.1   | 71.0   | 167.9  | 431.2  | 1355.1 | 2951.0 | 3179.6 | 2920.3 |
| 52.5° | 53.9   | 56.0   | 64.8   | 77.8   | 67.5   | 165.1  | 425.1  | 1365.3 | 2962.6 | 3159.1 | 2948.3 |
| 55°   | 47.8   | 50.5   | 59.4   | 60.7   | 55.3   | 135.8  | 405.3  | 1388.5 | 2905.3 | 3118.9 | 2921.7 |
| 57.5° | 45.0   | 46.4   | 52.5   | 49.8   | 47.8   | 102.3  | 348.7  | 1352.4 | 2580.5 | 2770.2 | 2718.4 |
| 60°   | 41.6   | 43.0   | 49.1   | 38.9   | 40.3   | 71.6   | 262.0  | 1174.3 | 2072.2 | 2308.3 | 2401.8 |
| 62.5° | 40.3   | 39.6   | 46.4   | 31.4   | 34.1   | 51.9   | 184.9  | 954.6  | 1596.6 | 1900.3 | 2062.0 |
| 65°   | 35.5   | 34.8   | 33.4   | 26.6   | 29.3   | 40.3   | 110.5  | 623.0  | 1125.1 | 1437.6 | 1526.3 |
| 67.5° | 27.3   | 28.7   | 24.6   | 21.2   | 24.6   | 31.4   | 61.4   | 279.1  | 590.2  | 862.5  | 934.1  |
| 70°   | 19.1   | 20.5   | 19.8   | 18.4   | 21.8   | 25.9   | 35.5   | 95.5   | 244.3  | 453.1  | 499.5  |
| 72.5° | 11.6   | 14.3   | 15.0   | 15.7   | 19.1   | 22.5   | 25.2   | 30.7   | 64.8   | 160.3  | 199.2  |
| 75°   | 6.8    | 9.6    | 11.6   | 13.6   | 15.7   | 19.1   | 21.2   | 21.8   | 22.5   | 30.0   | 48.4   |
| 77.5° | 4.8    | 6.8    | 10.2   | 13.0   | 15.7   | 19.1   | 22.5   | 23.9   | 22.5   | 21.2   | 22.5   |
| 80°   | 4.1    | 6.8    | 9.6    | 12.3   | 16.4   | 19.8   | 22.5   | 22.5   | 21.8   | 19.1   | 20.5   |
| 82.5° | 4.1    | 6.8    | 10.2   | 13.0   | 15.7   | 19.1   | 21.8   | 22.5   | 20.5   | 19.1   | 19.8   |
| 85°   | 4.8    | 7.5    | 10.9   | 13.6   | 17.1   | 15.7   | 14.3   | 11.6   | 10.9   | 8.9    | 9.6    |
| 87.5° | 4.8    | 6.8    | 6.8    | 7.5    | 8.2    | 8.2    | 8.2    | 7.5    | 6.1    | 5.5    | 5.5    |
| 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°    | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 |
| 2.5°  | 1905.7 | 1960.3 | 1958.3 | 1959.6 | 1951.4 | 1896.2 | 1869.6 | 1802.0 | 1821.1 | 1812.9 |
| 5°    | 1978.7 | 2032.6 | 2079.0 | 2073.6 | 2010.8 | 1935.7 | 1824.5 | 1719.4 | 1690.8 | 1648.5 |
| 7.5°  | 1905.7 | 2035.4 | 2078.3 | 2072.2 | 1979.4 | 1883.2 | 1705.8 | 1600.7 | 1550.9 | 1522.9 |
| 10°   | 1789.7 | 1939.8 | 1993.1 | 2004.0 | 1941.2 | 1795.2 | 1632.1 | 1463.6 | 1437.0 | 1388.5 |
| 12.5° | 1723.5 | 1832.7 | 1865.5 | 1894.8 | 1873.0 | 1763.8 | 1576.2 | 1414.4 | 1377.6 | 1345.5 |
| 15°   | 1669.6 | 1734.5 | 1748.1 | 1781.5 | 1794.5 | 1735.8 | 1605.5 | 1467.7 | 1376.9 | 1373.5 |
| 17.5° | 1719.4 | 1692.8 | 1643.0 | 1653.3 | 1694.2 | 1736.5 | 1681.2 | 1572.7 | 1484.7 | 1473.8 |
| 20°   | 1802.0 | 1684.6 | 1572.1 | 1597.3 | 1631.4 | 1761.1 | 1795.9 | 1719.4 | 1669.0 | 1641.0 |
| 22.5° | 1896.8 | 1699.0 | 1549.5 | 1561.8 | 1626.6 | 1816.3 | 1981.5 | 1939.1 | 1845.0 | 1804.7 |
| 25°   | 2072.2 | 1738.5 | 1567.3 | 1575.5 | 1664.2 | 1893.4 | 2149.3 | 2180.7 | 2124.7 | 2116.6 |
| 27.5° | 2243.5 | 1840.9 | 1606.2 | 1587.8 | 1683.3 | 1968.5 | 2251.0 | 2419.5 | 2321.2 | 2302.1 |
| 30°   | 2330.8 | 1924.1 | 1664.2 | 1632.8 | 1762.4 | 2014.2 | 2312.4 | 2575.1 | 2489.1 | 2480.2 |
| 32.5° | 2464.5 | 1999.9 | 1709.2 | 1669.0 | 1806.8 | 2070.8 | 2427.0 | 2745.0 | 2661.7 | 2617.4 |
| 35°   | 2520.5 | 2082.4 | 1808.1 | 1761.1 | 1933.7 | 2150.0 | 2485.7 | 2896.4 | 2870.5 | 2827.5 |
| 37.5° | 2628.3 | 2171.1 | 1924.8 | 1922.1 | 2087.2 | 2253.0 | 2591.4 | 3102.5 | 3097.7 | 3023.4 |
| 40°   | 2637.2 | 2268.0 | 2109.0 | 2195.0 | 2324.7 | 2432.5 | 2684.2 | 3159.8 | 3237.6 | 3187.1 |
| 42.5° | 2650.8 | 2437.9 | 2427.7 | 2498.7 | 2609.9 | 2586.7 | 2687.7 | 3173.5 | 3292.2 | 3262.2 |
| 45°   | 2656.9 | 2607.8 | 2751.8 | 2882.8 | 2929.2 | 2788.6 | 2655.6 | 3147.5 | 3320.8 | 3245.8 |
| 47.5° | 2607.8 | 2753.8 | 3013.8 | 3266.9 | 3280.6 | 2912.8 | 2641.9 | 3120.9 | 3337.9 | 3288.1 |
| 50°   | 2614.6 | 2845.3 | 3240.3 | 3466.9 | 3417.1 | 3022.7 | 2620.8 | 3104.5 | 3329.0 | 3295.6 |
| 52°   | 2598.3 | 2847.3 | 3272.4 | 3462.8 | 3428.0 | 2961.9 | 2584.6 | 3041.8 | 3320.8 | 3344.7 |
| 52.5° | 2616.7 | 2835.0 | 3239.0 | 3465.5 | 3420.5 | 2992.0 | 2579.8 | 3076.6 | 3325.6 | 3277.2 |
| 55°   | 2553.2 | 2689.0 | 3043.1 | 3139.3 | 3132.5 | 2715.6 | 2433.1 | 2961.3 | 3200.8 | 3201.4 |
| 57.5° | 2307.6 | 2330.8 | 2386.8 | 2384.7 | 2353.3 | 2135.0 | 2081.1 | 2723.1 | 2853.5 | 2782.5 |
| 60°   | 2033.3 | 1706.5 | 1555.7 | 1494.3 | 1459.5 | 1424.0 | 1840.9 | 2491.1 | 2503.4 | 2473.4 |
| 62.5° | 1757.0 | 1183.1 | 982.5  | 965.5  | 973.7  | 1103.3 | 1779.5 | 2399.0 | 2325.3 | 2260.5 |
| 65°   | 1417.9 | 862.5  | 713.7  | 691.2  | 771.0  | 910.9  | 1440.4 | 1839.5 | 1726.3 | 1672.4 |
| 67.5° | 890.4  | 629.1  | 482.4  | 440.1  | 536.3  | 627.1  | 946.4  | 1155.8 | 1028.9 | 954.6  |
| 70°   | 528.1  | 351.4  | 218.3  | 195.8  | 220.4  | 334.3  | 530.2  | 576.6  | 476.9  | 438.7  |
| 72.5° | 208.1  | 129.0  | 60.7   | 51.9   | 53.9   | 117.4  | 195.1  | 190.4  | 144.0  | 128.3  |
| 75°   | 56.0   | 38.9   | 21.2   | 17.1   | 14.3   | 21.8   | 31.4   | 20.5   | 7.5    | 9.6    |
| 77.5° | 25.9   | 23.2   | 18.4   | 14.3   | 10.9   | 8.2    | 4.1    | 1.4    | 1.4    | 0.7    |
| 80°   | 22.5   | 19.8   | 17.1   | 14.3   | 10.9   | 6.8    | 3.4    | 0.7    | 0.7    | 0.7    |
| 82.5° | 21.2   | 18.4   | 15.7   | 13.0   | 10.2   | 6.8    | 3.4    | 0.7    | 0.0    | 0.0    |
| 85°   | 8.9    | 11.6   | 13.0   | 12.3   | 10.9   | 6.8    | 3.4    | 0.7    | 0.0    | 0.0    |
| 87.5° | 4.8    | 4.1    | 3.4    | 2.7    | 2.0    | 1.4    | 1.4    | 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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