

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: P459079

Luminaire Tested: **GLAN-SA5D-735-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-735-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31108 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

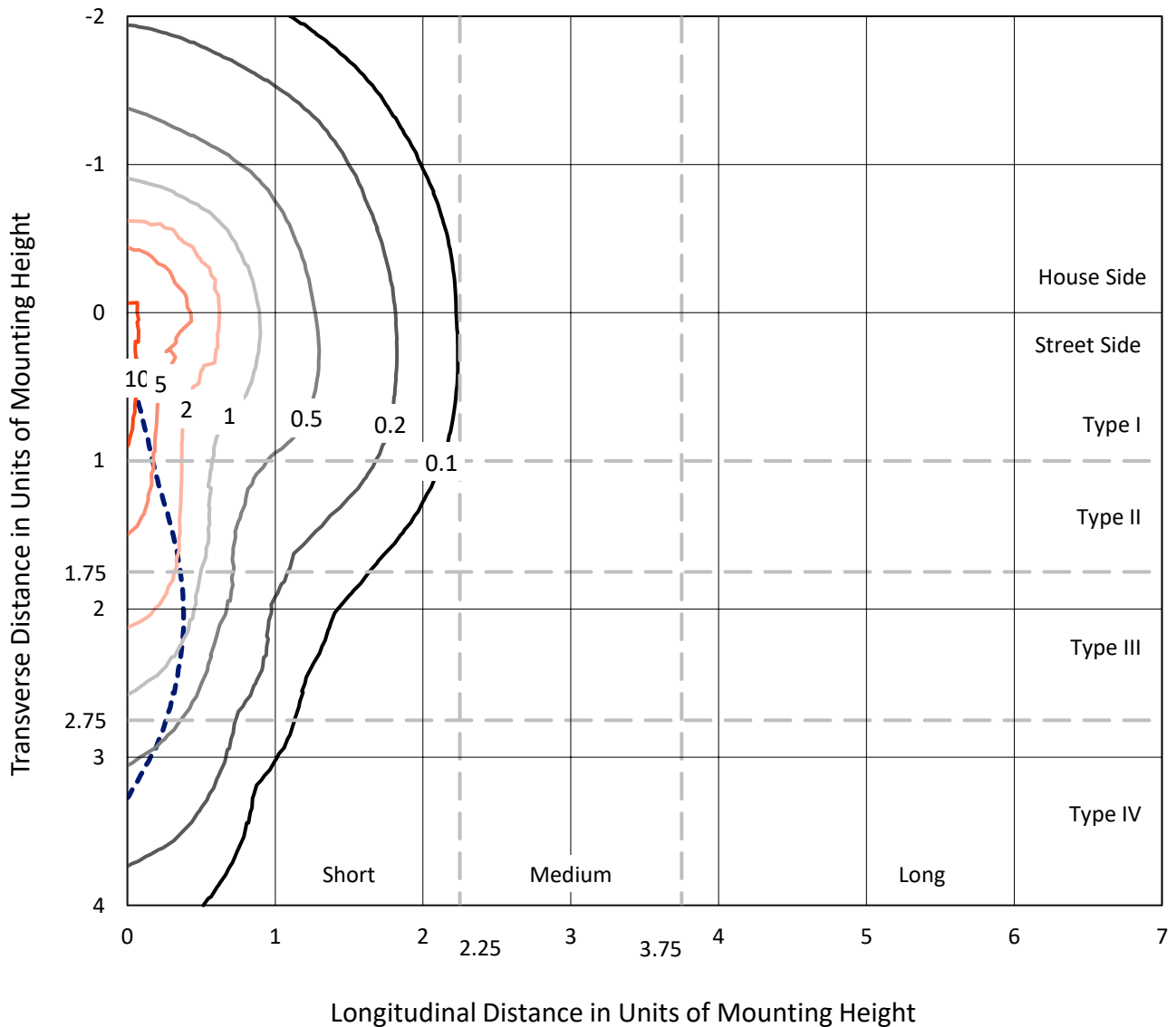
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

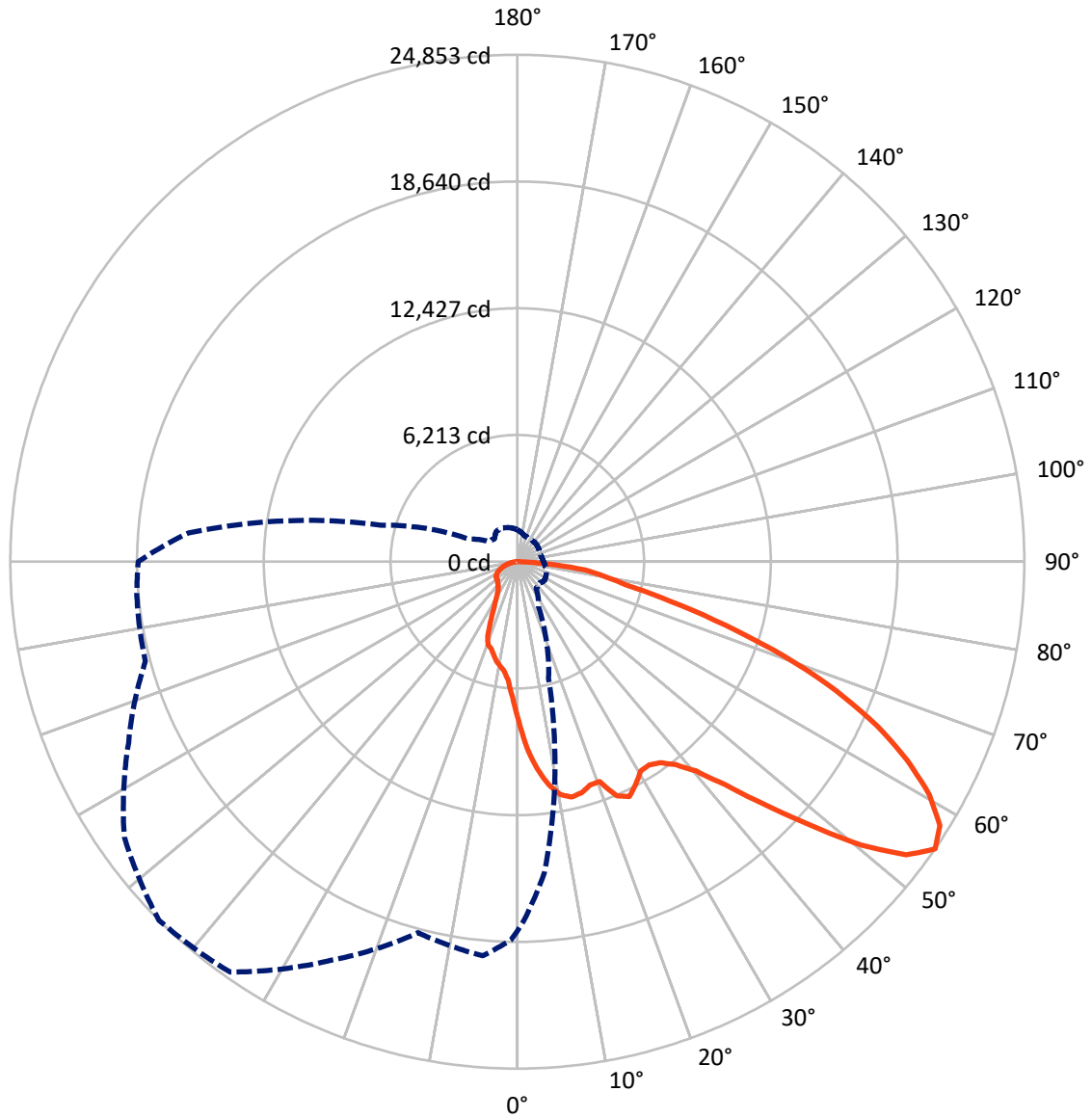
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6804.7   | 0.0    | 6804.7  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 24303.3  | 0.0    | 24303.3 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 31108.0  | 0.0    | 31108.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 661.7   | 2.1       |
| 10°-20°   | 1755.4  | 5.6       |
| 20°-30°   | 3032.5  | 9.7       |
| 30°-40°   | 3524.3  | 11.3      |
| 40°-50°   | 4917.1  | 15.8      |
| 50°-60°   | 6671.9  | 21.4      |
| 60°-70°   | 6347.5  | 20.4      |
| 70°-80°   | 3429.1  | 11.0      |
| 80°-90°   | 768.5   | 2.5       |
| 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°    | 31108.0 | 100.0     |
| 0°-180°   | 31108.0 | 100.0     |

**Coefficient of Utilization**



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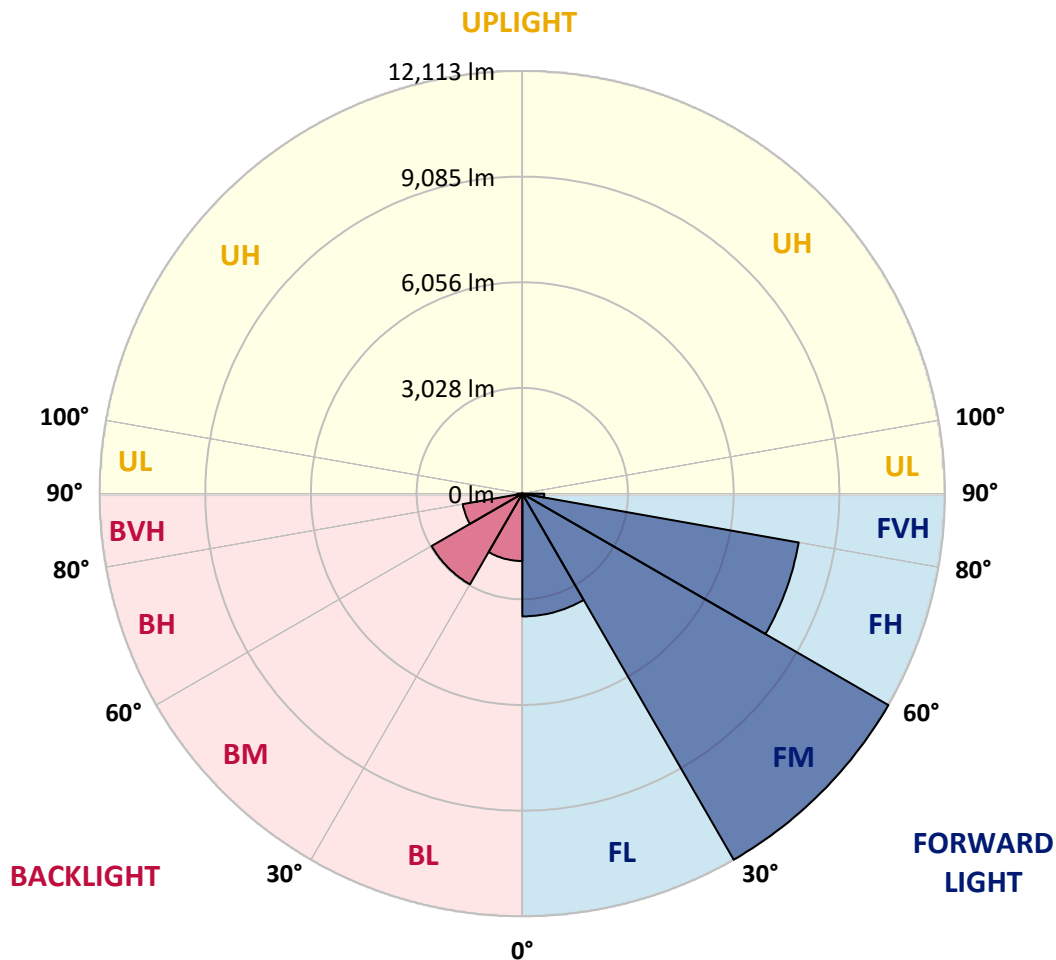
CATALOG NUMBER: GLAN-SA5D-735-U-SLR

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3518.4  | 11.3      |                         |      |          |
| FM   | (30°-60°)   | 12112.8 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 8044.0  | 25.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 628.1   | 2.0       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1931.2  | 6.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3000.5  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1732.7  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 140.4   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7806.9  | 7806.9  | 7806.9  | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 |
| 2.5°  | 8673.0  | 8640.1  | 8547.8  | 8305.6 | 8061.4 | 7813.0 | 7622.2 | 7384.1 | 7135.8 | 7002.4 | 6832.1 |
| 5°    | 8792.0  | 8755.0  | 8537.5  | 7991.6 | 7497.0 | 6977.8 | 6563.2 | 6200.0 | 6052.2 | 5834.6 | 5660.2 |
| 7.5°  | 8512.9  | 8496.5  | 8170.1  | 7386.2 | 6708.9 | 6029.6 | 5559.6 | 5268.2 | 5003.5 | 4905.0 | 4925.5 |
| 10°   | 8258.4  | 8192.7  | 7784.3  | 6760.2 | 5970.1 | 5418.0 | 5081.5 | 4796.2 | 4609.4 | 4560.2 | 4570.4 |
| 12.5° | 8047.0  | 7958.8  | 7476.5  | 6339.5 | 5647.9 | 5206.6 | 4777.7 | 4480.1 | 4309.8 | 4357.0 | 4517.1 |
| 15°   | 8003.9  | 7884.9  | 7347.2  | 6195.8 | 5471.4 | 4902.9 | 4432.9 | 4090.2 | 3963.0 | 4065.6 | 4322.1 |
| 17.5° | 8283.0  | 8133.2  | 7568.8  | 6243.1 | 5303.1 | 4593.0 | 4016.3 | 3624.3 | 3517.6 | 3681.8 | 4016.3 |
| 20°   | 9179.9  | 8958.2  | 8260.4  | 6516.0 | 5286.7 | 4439.1 | 3774.2 | 3380.1 | 3425.3 | 3737.2 | 4086.1 |
| 22.5° | 10838.1 | 10505.6 | 9471.3  | 6914.1 | 5372.9 | 4400.1 | 3724.9 | 3519.7 | 3768.0 | 4032.7 | 4262.6 |
| 25°   | 11166.5 | 10905.8 | 9688.8  | 7004.4 | 5354.4 | 4373.4 | 3864.5 | 3967.1 | 4244.1 | 4375.5 | 4295.4 |
| 27.5° | 11351.2 | 11053.6 | 9674.5  | 6557.1 | 4788.0 | 3967.1 | 3694.1 | 3864.5 | 3934.2 | 3807.0 | 3589.4 |
| 30°   | 11782.2 | 11472.3 | 9918.7  | 6087.1 | 3942.4 | 2943.0 | 2579.7 | 2509.9 | 2557.1 | 2581.8 | 2503.8 |
| 32.5° | 12375.3 | 12069.5 | 10378.4 | 5779.2 | 3408.8 | 2434.0 | 2076.9 | 1978.4 | 1955.8 | 1929.1 | 1898.4 |
| 35°   | 13142.8 | 12672.9 | 10829.9 | 5582.2 | 3189.3 | 2251.4 | 1923.0 | 1847.1 | 1816.3 | 1779.3 | 1746.5 |
| 37.5° | 13922.7 | 13430.2 | 11400.4 | 5374.9 | 3043.5 | 2124.1 | 1820.4 | 1785.5 | 1732.1 | 1693.1 | 1645.9 |
| 40°   | 14751.8 | 14199.8 | 11919.7 | 5194.3 | 2901.9 | 2042.0 | 1746.5 | 1742.4 | 1672.6 | 1627.5 | 1572.1 |
| 42.5° | 15470.1 | 14901.6 | 12383.5 | 5083.5 | 2793.2 | 1955.8 | 1701.3 | 1713.7 | 1641.8 | 1574.1 | 1502.3 |
| 45°   | 16040.7 | 15482.4 | 12812.4 | 5083.5 | 2704.9 | 1869.6 | 1693.1 | 1684.9 | 1613.1 | 1529.0 | 1446.9 |
| 47.5° | 16541.4 | 15964.7 | 13231.1 | 5212.8 | 2649.5 | 1797.8 | 1648.0 | 1662.4 | 1588.5 | 1481.7 | 1401.7 |
| 50°   | 16929.3 | 16420.3 | 13795.5 | 5413.9 | 2594.1 | 1740.3 | 1590.5 | 1668.5 | 1567.9 | 1457.1 | 1364.8 |
| 52.5° | 17423.9 | 16968.3 | 14474.8 | 5688.9 | 2546.9 | 1676.7 | 1539.2 | 1668.5 | 1565.9 | 1459.2 | 1358.6 |
| 55°   | 18109.4 | 17629.1 | 15293.6 | 5916.7 | 2471.0 | 1617.2 | 1494.1 | 1621.3 | 1559.7 | 1448.9 | 1342.2 |
| 57.5° | 18589.6 | 18230.4 | 15872.4 | 6068.6 | 2362.2 | 1541.3 | 1453.0 | 1576.2 | 1533.1 | 1409.9 | 1292.9 |
| 58°   | 18612.2 | 18261.2 | 15956.5 | 6103.5 | 2335.5 | 1526.9 | 1442.8 | 1555.6 | 1520.7 | 1393.5 | 1276.5 |
| 60°   | 18353.6 | 18051.9 | 15972.9 | 6054.2 | 2183.6 | 1455.1 | 1389.4 | 1471.5 | 1455.1 | 1297.0 | 1188.3 |
| 62.5° | 17413.6 | 17091.4 | 15310.0 | 5654.0 | 1982.5 | 1366.8 | 1307.3 | 1358.6 | 1321.7 | 1161.6 | 1061.0 |
| 65°   | 16077.6 | 15484.5 | 13947.3 | 5026.0 | 1838.8 | 1272.4 | 1196.5 | 1200.6 | 1161.6 | 1046.7 | 958.4  |
| 67.5° | 14298.3 | 13635.4 | 11808.8 | 4235.9 | 1730.1 | 1167.8 | 1065.1 | 1054.9 | 1007.7 | 933.8  | 862.0  |
| 70°   | 12108.5 | 11654.9 | 9596.5  | 3445.8 | 1609.0 | 1052.8 | 917.4  | 911.2  | 882.5  | 827.1  | 763.5  |
| 72.5° | 9814.0  | 9237.3  | 7749.4  | 2758.3 | 1461.2 | 942.0  | 779.9  | 792.2  | 755.2  | 716.2  | 658.8  |
| 75°   | 7242.5  | 6864.9  | 5990.6  | 2212.4 | 1262.2 | 820.9  | 650.6  | 654.7  | 638.3  | 597.2  | 552.1  |
| 77.5° | 4769.5  | 4656.6  | 4285.2  | 1453.0 | 970.7  | 652.6  | 531.5  | 535.6  | 523.3  | 486.4  | 439.2  |
| 80°   | 3209.8  | 3133.8  | 2904.0  | 935.8  | 648.5  | 472.0  | 410.5  | 414.6  | 412.5  | 373.5  | 309.9  |
| 82.5° | 1978.4  | 1945.6  | 1871.7  | 632.1  | 449.5  | 338.6  | 270.9  | 283.2  | 305.8  | 262.7  | 211.4  |
| 85°   | 933.8   | 935.8   | 1130.8  | 344.8  | 264.7  | 217.5  | 147.8  | 158.0  | 158.0  | 158.0  | 119.0  |
| 87.5° | 121.1   | 127.2   | 156.0   | 145.7  | 96.5   | 82.1   | 53.4   | 45.2   | 39.0   | 51.3   | 36.9   |
| 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°    | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 |
| 2.5°  | 6772.5 | 6731.5 | 6643.2 | 6622.7 | 6610.4 | 6645.3 | 6552.9 | 6577.6 | 6536.5 | 6651.5 | 6633.0 |
| 5°    | 5670.5 | 5674.6 | 5746.4 | 5793.6 | 5810.0 | 5793.6 | 5732.0 | 5625.3 | 5543.2 | 5510.4 | 5518.6 |
| 7.5°  | 4886.5 | 4958.3 | 5081.5 | 5219.0 | 5344.2 | 5381.1 | 5346.2 | 5143.0 | 4921.4 | 4781.8 | 4736.7 |
| 10°   | 4625.9 | 4722.3 | 4863.9 | 4972.7 | 5083.5 | 5171.8 | 5190.2 | 5032.2 | 4769.5 | 4439.1 | 4309.8 |
| 12.5° | 4640.2 | 4771.6 | 4907.0 | 4941.9 | 4931.6 | 4966.5 | 4950.1 | 4923.4 | 4751.0 | 4330.3 | 4114.8 |
| 15°   | 4504.8 | 4660.7 | 4755.1 | 4736.7 | 4703.8 | 4673.1 | 4630.0 | 4562.2 | 4500.7 | 4205.1 | 3967.1 |
| 17.5° | 4192.8 | 4352.9 | 4430.9 | 4437.0 | 4437.0 | 4428.8 | 4324.2 | 4299.5 | 4291.3 | 4147.7 | 4002.0 |
| 20°   | 4250.3 | 4338.5 | 4303.6 | 4246.2 | 4262.6 | 4318.0 | 4256.4 | 4244.1 | 4291.3 | 4354.9 | 4328.3 |
| 22.5° | 4283.1 | 4252.3 | 3989.6 | 3735.2 | 3677.7 | 3850.1 | 3885.0 | 4022.5 | 4213.3 | 4443.2 | 4593.0 |
| 25°   | 4079.9 | 3831.6 | 3361.6 | 3074.3 | 2912.2 | 3072.3 | 3281.6 | 3536.1 | 3821.4 | 4116.9 | 4291.3 |
| 27.5° | 3410.9 | 3222.1 | 2885.5 | 2626.9 | 2485.3 | 2509.9 | 2688.5 | 2920.4 | 3185.1 | 3384.2 | 3511.5 |
| 30°   | 2569.5 | 2485.3 | 2310.9 | 2222.6 | 2136.4 | 2115.9 | 2191.8 | 2280.1 | 2397.1 | 2421.7 | 2454.5 |
| 32.5° | 1892.2 | 1879.9 | 1890.2 | 1861.4 | 1845.0 | 1843.0 | 1820.4 | 1840.9 | 1853.2 | 1867.6 | 1838.8 |
| 35°   | 1711.6 | 1695.2 | 1666.5 | 1658.2 | 1648.0 | 1652.1 | 1641.8 | 1631.6 | 1639.8 | 1652.1 | 1660.3 |
| 37.5° | 1619.3 | 1594.6 | 1553.6 | 1539.2 | 1539.2 | 1545.4 | 1529.0 | 1524.8 | 1539.2 | 1578.2 | 1598.7 |
| 40°   | 1547.4 | 1518.7 | 1471.5 | 1453.0 | 1465.3 | 1481.7 | 1459.2 | 1451.0 | 1485.9 | 1526.9 | 1559.7 |
| 42.5° | 1479.7 | 1457.1 | 1412.0 | 1391.4 | 1401.7 | 1432.5 | 1399.7 | 1393.5 | 1438.7 | 1483.8 | 1522.8 |
| 45°   | 1422.2 | 1399.7 | 1358.6 | 1348.4 | 1352.5 | 1381.2 | 1358.6 | 1358.6 | 1401.7 | 1451.0 | 1485.9 |
| 47.5° | 1377.1 | 1348.4 | 1321.7 | 1313.5 | 1317.6 | 1334.0 | 1329.9 | 1329.9 | 1370.9 | 1422.2 | 1457.1 |
| 50°   | 1331.9 | 1307.3 | 1272.4 | 1276.5 | 1286.8 | 1309.4 | 1307.3 | 1313.5 | 1354.5 | 1418.1 | 1455.1 |
| 52.5° | 1311.4 | 1274.5 | 1235.5 | 1239.6 | 1270.4 | 1297.0 | 1288.8 | 1295.0 | 1342.2 | 1461.2 | 1514.6 |
| 55°   | 1288.8 | 1239.6 | 1194.4 | 1200.6 | 1235.5 | 1274.5 | 1264.2 | 1272.4 | 1327.8 | 1490.0 | 1563.8 |
| 57.5° | 1245.7 | 1188.3 | 1139.0 | 1143.1 | 1194.4 | 1235.5 | 1219.1 | 1229.3 | 1295.0 | 1459.2 | 1537.2 |
| 58°   | 1227.3 | 1178.0 | 1130.8 | 1132.9 | 1182.1 | 1227.3 | 1208.8 | 1217.0 | 1284.7 | 1451.0 | 1524.8 |
| 60°   | 1149.3 | 1120.5 | 1079.5 | 1081.6 | 1128.8 | 1167.8 | 1157.5 | 1165.7 | 1231.4 | 1391.4 | 1446.9 |
| 62.5° | 1042.6 | 1026.1 | 1015.9 | 1015.9 | 1044.6 | 1081.6 | 1091.8 | 1102.1 | 1161.6 | 1258.1 | 1307.3 |
| 65°   | 927.6  | 927.6  | 929.7  | 929.7  | 948.2  | 995.4  | 1001.5 | 1028.2 | 1083.6 | 1130.8 | 1167.8 |
| 67.5° | 849.6  | 845.5  | 849.6  | 839.4  | 847.6  | 876.3  | 907.1  | 931.7  | 989.2  | 1022.0 | 1034.4 |
| 70°   | 749.1  | 747.0  | 749.1  | 734.7  | 745.0  | 769.6  | 790.1  | 831.2  | 890.7  | 915.3  | 921.5  |
| 72.5° | 650.6  | 650.6  | 654.7  | 644.4  | 644.4  | 671.1  | 685.5  | 730.6  | 786.0  | 800.4  | 802.4  |
| 75°   | 548.0  | 554.1  | 554.1  | 539.8  | 543.9  | 560.3  | 578.7  | 615.7  | 667.0  | 677.3  | 677.3  |
| 77.5° | 435.1  | 457.7  | 457.7  | 443.3  | 449.5  | 451.5  | 476.1  | 494.6  | 533.6  | 537.7  | 521.3  |
| 80°   | 316.1  | 338.6  | 357.1  | 344.8  | 355.0  | 342.7  | 357.1  | 369.4  | 408.4  | 389.9  | 363.3  |
| 82.5° | 225.8  | 242.2  | 256.5  | 258.6  | 248.3  | 225.8  | 244.2  | 246.3  | 264.7  | 240.1  | 225.8  |
| 85°   | 125.2  | 139.6  | 158.0  | 149.8  | 133.4  | 119.0  | 125.2  | 129.3  | 127.2  | 121.1  | 112.9  |
| 87.5° | 32.8   | 34.9   | 39.0   | 28.7   | 26.7   | 22.6   | 30.8   | 30.8   | 34.9   | 36.9   | 34.9   |
| 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°    | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9 | 7806.9  | 7806.9  | 7806.9  |
| 2.5°  | 6647.4 | 6737.7 | 6932.6 | 7080.4 | 7261.0 | 7480.6 | 7739.2 | 7999.8 | 8281.0  | 8369.2  | 8492.4  |
| 5°    | 5500.1 | 5725.9 | 5820.3 | 6089.1 | 6355.9 | 6756.1 | 7183.0 | 7677.6 | 8219.4  | 8480.0  | 8730.4  |
| 7.5°  | 4699.7 | 4820.8 | 4919.3 | 5116.3 | 5436.5 | 5922.9 | 6458.5 | 7076.3 | 7843.8  | 8223.5  | 8590.9  |
| 10°   | 4268.8 | 4281.1 | 4402.2 | 4646.4 | 4925.5 | 5354.4 | 5861.3 | 6552.9 | 7408.7  | 7870.5  | 8301.5  |
| 12.5° | 3983.5 | 3930.1 | 4061.5 | 4316.0 | 4632.0 | 5028.1 | 5494.0 | 6152.8 | 7094.7  | 7568.8  | 8090.1  |
| 15°   | 3733.1 | 3649.0 | 3747.5 | 4008.1 | 4320.1 | 4785.9 | 5286.7 | 5984.5 | 6971.6  | 7523.7  | 8102.4  |
| 17.5° | 3739.3 | 3507.4 | 3542.2 | 3761.8 | 4071.7 | 4545.8 | 5153.3 | 5978.3 | 7158.4  | 7794.6  | 8480.0  |
| 20°   | 4201.0 | 3829.6 | 3671.5 | 3712.6 | 4012.2 | 4529.4 | 5214.9 | 6265.6 | 7772.0  | 8699.6  | 9432.3  |
| 22.5° | 4654.6 | 4430.9 | 4176.4 | 4092.3 | 4256.4 | 4798.2 | 5606.8 | 6944.9 | 9106.0  | 10503.6 | 11827.3 |
| 25°   | 4496.6 | 4687.4 | 4623.8 | 4504.8 | 4541.7 | 4991.2 | 5873.6 | 7503.2 | 10142.4 | 11716.5 | 12960.2 |
| 27.5° | 3597.7 | 3944.5 | 4014.3 | 4012.2 | 4026.6 | 4396.0 | 5282.6 | 7127.6 | 10271.7 | 11948.4 | 13136.7 |
| 30°   | 2528.4 | 2559.2 | 2596.1 | 2668.0 | 2733.6 | 3064.1 | 4133.3 | 6257.4 | 10214.2 | 12053.1 | 13243.4 |
| 32.5° | 1824.5 | 1865.5 | 1916.8 | 2015.3 | 2171.3 | 2592.0 | 3616.1 | 5980.4 | 10518.0 | 12486.1 | 13555.3 |
| 35°   | 1668.5 | 1715.7 | 1765.0 | 1877.8 | 2025.6 | 2415.5 | 3410.9 | 5865.4 | 11016.7 | 13188.0 | 14115.6 |
| 37.5° | 1619.3 | 1672.6 | 1715.7 | 1797.8 | 1916.8 | 2288.3 | 3224.1 | 5787.4 | 11527.7 | 13930.9 | 14866.8 |
| 40°   | 1584.4 | 1645.9 | 1680.8 | 1746.5 | 1828.6 | 2171.3 | 3057.9 | 5725.9 | 12022.3 | 14610.2 | 15470.1 |
| 42.5° | 1553.6 | 1617.2 | 1662.4 | 1709.6 | 1777.3 | 2066.7 | 2910.1 | 5664.3 | 12451.2 | 15269.0 | 16071.4 |
| 45°   | 1516.6 | 1596.7 | 1654.1 | 1691.1 | 1750.6 | 1978.4 | 2797.3 | 5615.1 | 12939.7 | 15853.9 | 16678.9 |
| 47.5° | 1485.9 | 1574.1 | 1645.9 | 1689.0 | 1711.6 | 1916.8 | 2707.0 | 5682.8 | 13526.6 | 16465.5 | 17243.3 |
| 50°   | 1487.9 | 1572.1 | 1662.4 | 1730.1 | 1670.6 | 1865.5 | 2651.6 | 5951.6 | 14290.1 | 17192.0 | 17688.6 |
| 52.5° | 1553.6 | 1656.2 | 1728.0 | 1744.4 | 1613.1 | 1804.0 | 2622.8 | 6421.6 | 15193.1 | 17834.4 | 18138.1 |
| 55°   | 1627.5 | 1734.2 | 1812.2 | 1801.9 | 1582.3 | 1726.0 | 2616.7 | 6922.4 | 16182.3 | 18583.4 | 18723.0 |
| 57.5° | 1600.8 | 1756.8 | 1875.8 | 1822.4 | 1584.4 | 1650.0 | 2590.0 | 7326.7 | 17009.3 | 19143.7 | 19301.7 |
| 58°   | 1592.6 | 1748.5 | 1884.0 | 1818.3 | 1578.2 | 1627.5 | 2583.8 | 7361.5 | 17124.3 | 19182.7 | 19383.8 |
| 60°   | 1512.5 | 1676.7 | 1877.8 | 1787.5 | 1543.3 | 1565.9 | 2516.1 | 7474.4 | 17093.5 | 18981.6 | 19433.1 |
| 62.5° | 1366.8 | 1502.3 | 1736.2 | 1637.7 | 1436.6 | 1483.8 | 2364.2 | 7334.9 | 16260.3 | 18012.9 | 18712.7 |
| 65°   | 1202.6 | 1303.2 | 1459.2 | 1440.7 | 1284.7 | 1399.7 | 2157.0 | 6782.8 | 14591.7 | 16440.9 | 17177.6 |
| 67.5° | 1079.5 | 1161.6 | 1260.1 | 1233.4 | 1155.4 | 1286.8 | 1933.3 | 5849.0 | 12720.1 | 14552.8 | 15480.4 |
| 70°   | 954.3  | 1017.9 | 1067.2 | 1048.7 | 1024.1 | 1176.0 | 1734.2 | 4746.9 | 10926.4 | 12759.1 | 13658.0 |
| 72.5° | 827.1  | 886.6  | 927.6  | 901.0  | 886.6  | 1059.0 | 1572.1 | 3683.9 | 8629.9  | 10526.2 | 11681.6 |
| 75°   | 691.6  | 751.1  | 779.9  | 749.1  | 740.9  | 933.8  | 1331.9 | 2752.1 | 6475.0  | 8114.7  | 9112.1  |
| 77.5° | 535.6  | 599.3  | 636.2  | 625.9  | 630.1  | 767.6  | 1075.4 | 1884.0 | 4630.0  | 5530.9  | 6581.7  |
| 80°   | 375.6  | 445.3  | 470.0  | 459.7  | 488.4  | 584.9  | 759.3  | 1196.5 | 3193.4  | 3589.4  | 4330.3  |
| 82.5° | 231.9  | 297.6  | 301.7  | 311.9  | 332.5  | 433.0  | 572.6  | 728.6  | 2005.1  | 2072.8  | 2610.5  |
| 85°   | 117.0  | 141.6  | 151.9  | 168.3  | 186.8  | 264.7  | 326.3  | 451.5  | 1290.9  | 976.9   | 1459.2  |
| 87.5° | 39.0   | 41.0   | 49.3   | 61.6   | 75.9   | 108.8  | 139.6  | 184.7  | 320.2   | 176.5   | 451.5   |
| 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°    | 7806.9  | 7806.9  | 7806.9  | 7806.9  | 7806.9  | 7806.9  | 7806.9  | 7806.9  | 7806.9  | 7806.9  |
| 2.5°  | 8740.7  | 8915.1  | 9042.4  | 9159.3  | 9046.5  | 9036.2  | 8925.4  | 8746.8  | 8673.0  | 8673.0  |
| 5°    | 9255.8  | 9664.2  | 9994.6  | 10206.0 | 10115.7 | 9898.2  | 9539.0  | 9081.4  | 8835.1  | 8792.0  |
| 7.5°  | 9397.4  | 10204.0 | 10817.6 | 11035.1 | 10883.3 | 10403.0 | 9715.5  | 8943.9  | 8590.9  | 8512.9  |
| 10°   | 9311.2  | 10359.9 | 11260.9 | 11605.7 | 11394.3 | 10667.8 | 9729.9  | 8783.8  | 8348.7  | 8258.4  |
| 12.5° | 9220.9  | 10380.5 | 11343.0 | 11841.7 | 11704.2 | 10881.2 | 9834.6  | 8679.1  | 8176.3  | 8047.0  |
| 15°   | 9286.6  | 10388.7 | 11242.4 | 11757.5 | 11845.8 | 11137.8 | 10006.9 | 8755.0  | 8141.4  | 8003.9  |
| 17.5° | 9701.2  | 10544.6 | 11098.8 | 11515.4 | 11825.3 | 11486.6 | 10497.4 | 9118.3  | 8453.4  | 8283.0  |
| 20°   | 10567.2 | 10918.2 | 11180.8 | 11503.1 | 12001.8 | 12198.8 | 11501.0 | 10115.7 | 9329.7  | 9179.9  |
| 22.5° | 13075.1 | 13011.5 | 12473.8 | 12467.6 | 13190.0 | 13980.2 | 13933.0 | 12143.4 | 10961.3 | 10838.1 |
| 25°   | 14015.1 | 13719.5 | 12941.7 | 12752.9 | 13071.0 | 14290.1 | 14113.6 | 12557.9 | 11466.1 | 11166.5 |
| 27.5° | 13647.7 | 12915.0 | 12404.0 | 12360.9 | 12256.2 | 13407.6 | 13832.4 | 12726.2 | 11642.6 | 11351.2 |
| 30°   | 13625.1 | 12547.7 | 11817.1 | 11903.3 | 12003.8 | 13103.8 | 13988.4 | 13253.7 | 12094.1 | 11782.2 |
| 32.5° | 13680.5 | 12599.0 | 11860.2 | 11876.6 | 12176.2 | 13149.0 | 14160.8 | 13828.3 | 12687.2 | 12375.3 |
| 35°   | 13904.2 | 12890.4 | 12135.2 | 12096.2 | 12564.1 | 13444.5 | 14454.2 | 14731.3 | 13497.9 | 13142.8 |
| 37.5° | 14265.4 | 13471.2 | 12638.0 | 12627.7 | 13307.0 | 13978.1 | 14819.6 | 15642.5 | 14304.4 | 13922.7 |
| 40°   | 14797.0 | 14150.5 | 13532.8 | 13477.4 | 14316.7 | 14846.2 | 15293.6 | 16613.2 | 15242.3 | 14751.8 |
| 42.5° | 15439.3 | 14965.3 | 14712.8 | 14932.4 | 15739.0 | 15821.1 | 16032.5 | 17510.1 | 16040.7 | 15470.1 |
| 45°   | 16034.5 | 16011.9 | 16362.9 | 16945.7 | 17415.7 | 16923.1 | 16804.1 | 18111.4 | 16660.5 | 16040.7 |
| 47.5° | 16742.5 | 17354.1 | 18413.1 | 19266.9 | 19759.4 | 18205.8 | 17462.9 | 18503.4 | 17112.0 | 16541.4 |
| 50°   | 17460.8 | 18961.1 | 20652.1 | 21842.5 | 21947.1 | 19599.3 | 17916.4 | 18872.8 | 17522.4 | 16929.3 |
| 52.5° | 18216.1 | 20243.7 | 22495.1 | 23878.3 | 23675.2 | 20812.2 | 18355.6 | 19123.2 | 17945.2 | 17423.9 |
| 55°   | 18872.8 | 21029.8 | 23525.3 | 24853.2 | 24555.6 | 21551.0 | 18829.7 | 19394.1 | 18548.6 | 18109.4 |
| 57.5° | 19240.2 | 21095.4 | 23268.8 | 24428.4 | 24106.1 | 21407.4 | 19047.3 | 19595.2 | 18934.4 | 18589.6 |
| 58°   | 19293.5 | 21007.2 | 23041.0 | 24182.1 | 23853.7 | 21286.3 | 19045.2 | 19587.0 | 18959.0 | 18612.2 |
| 60°   | 19246.3 | 20434.6 | 22193.4 | 23209.3 | 22864.5 | 20527.0 | 18967.2 | 19433.1 | 18647.1 | 18353.6 |
| 62.5° | 18809.2 | 19441.3 | 20730.1 | 21469.0 | 21370.4 | 19340.7 | 18647.1 | 18852.3 | 17696.9 | 17413.6 |
| 65°   | 18234.6 | 18086.8 | 18856.4 | 19379.7 | 19453.6 | 18452.1 | 18329.0 | 17596.3 | 16477.8 | 16077.6 |
| 67.5° | 17536.8 | 16551.7 | 16549.6 | 16847.2 | 16970.3 | 17085.3 | 17666.1 | 16231.5 | 14721.0 | 14298.3 |
| 70°   | 16352.6 | 14185.4 | 13532.8 | 13883.7 | 13781.1 | 14751.8 | 16481.9 | 14314.7 | 12603.1 | 12108.5 |
| 72.5° | 14181.3 | 11256.8 | 10212.2 | 10663.7 | 10405.1 | 11568.7 | 14421.4 | 11780.1 | 10421.5 | 9814.0  |
| 75°   | 11494.8 | 8420.5  | 7343.1  | 7757.6  | 7597.6  | 8775.6  | 11999.7 | 8556.0  | 7474.4  | 7242.5  |
| 77.5° | 8925.4  | 6101.4  | 5475.5  | 5418.0  | 5537.1  | 6530.4  | 8802.3  | 5777.2  | 4927.5  | 4769.5  |
| 80°   | 5734.1  | 4367.3  | 4404.2  | 4330.3  | 4391.9  | 4116.9  | 5344.2  | 3685.9  | 3337.0  | 3209.8  |
| 82.5° | 3774.2  | 3043.5  | 3628.4  | 3349.3  | 3181.0  | 2768.5  | 3505.3  | 2413.5  | 2048.2  | 1978.4  |
| 85°   | 2571.5  | 2241.1  | 2040.0  | 1559.7  | 1836.8  | 2132.3  | 2629.0  | 1299.1  | 1030.2  | 933.8   |
| 87.5° | 1161.6  | 779.9   | 572.6   | 353.0   | 558.2   | 644.4   | 1276.5  | 151.9   | 117.0   | 121.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)