

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: P954534

Luminaire Tested: **GLAN-SB7D-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61703 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

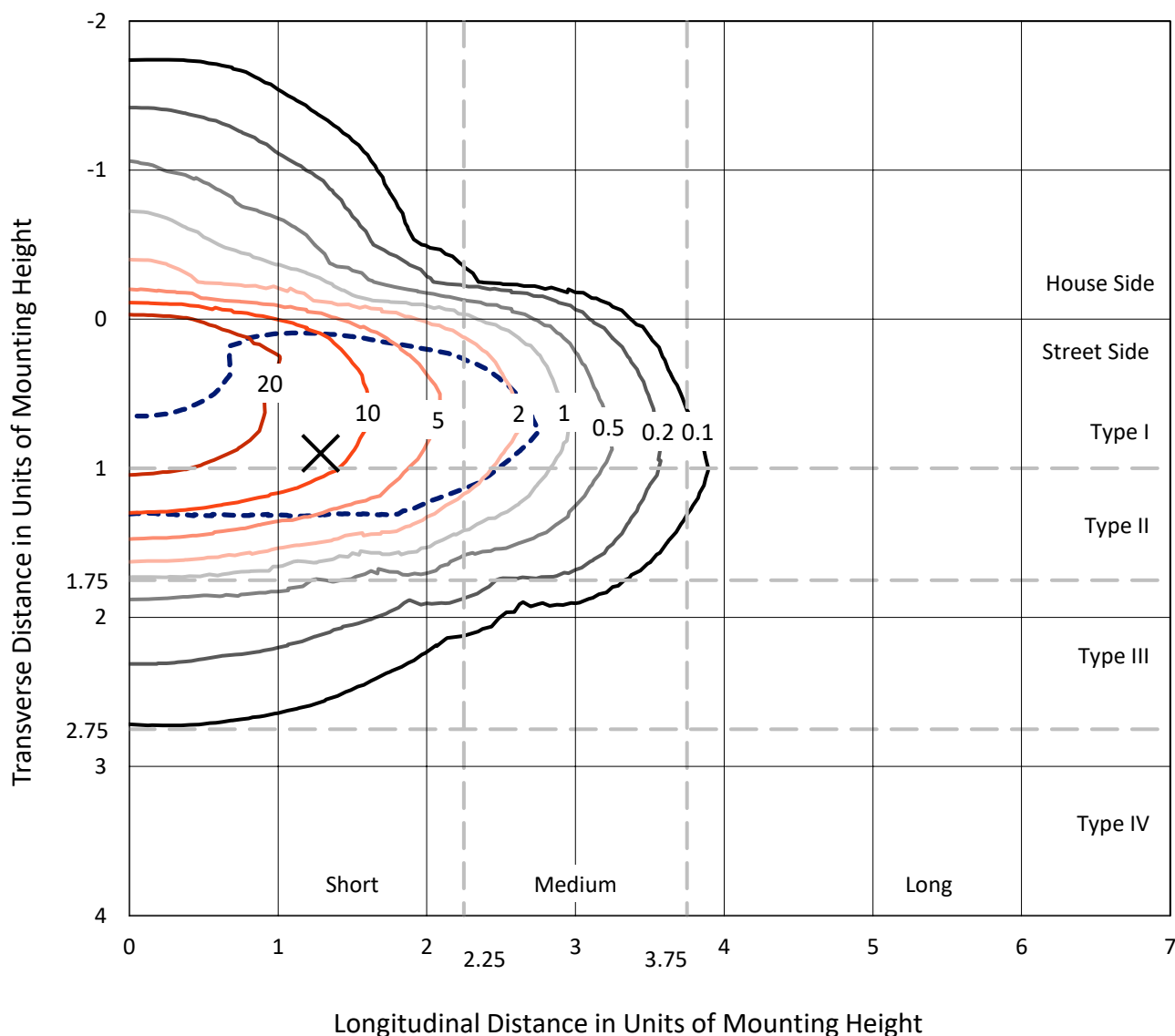
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

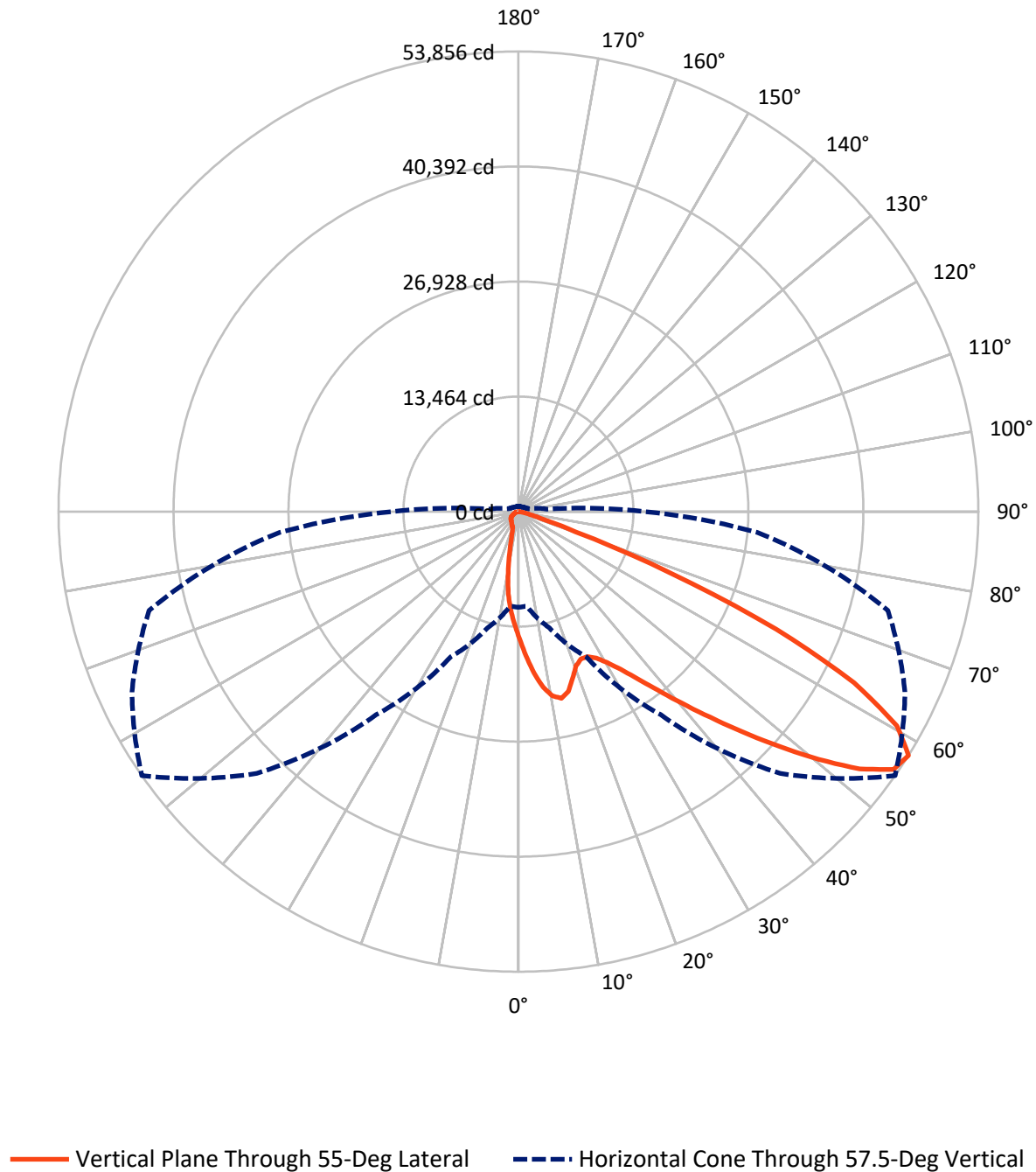
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.1 fc  
 Type II - 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    | 4818.7   | 0.0    | 4818.7  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 56884.2  | 0.0    | 56884.2 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 61703.0  | 0.0    | 61703.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1383.5  | 2.2       |
| 10°-20°   | 3341.8  | 5.4       |
| 20°-30°   | 5346.8  | 8.7       |
| 30°-40°   | 9049.8  | 14.7      |
| 40°-50°   | 14857.8 | 24.1      |
| 50°-60°   | 16329.8 | 26.5      |
| 60°-70°   | 9366.8  | 15.2      |
| 70°-80°   | 1913.9  | 3.1       |
| 80°-90°   | 112.9   | 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°    | 61703.0 | 100.0     |
| 0°-180°   | 61703.0 | 100.0     |

**Coefficient of Utilization**



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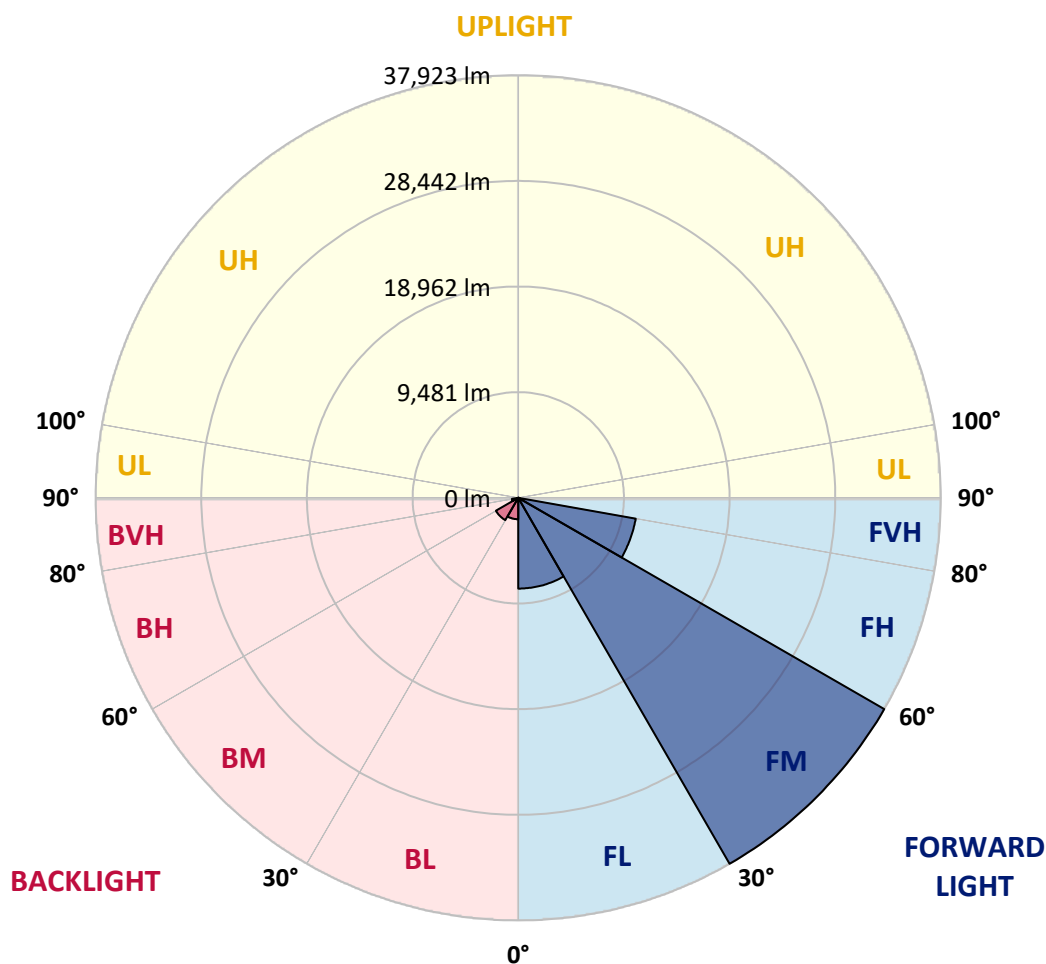
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 8148.3  | 13.2      |                         |      |          |
| FM   | (30°-60°)   | 37923.1 | 61.5      |                         |      |          |
| FH   | (60°-80°)   | 10707.6 | 17.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 105.3   | 0.2       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1923.8  | 3.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2314.3  | 3.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 573.1   | 0.9       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 7.6     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 |
| 2.5°  | 18449.2 | 18217.1 | 18182.8 | 18137.2 | 17695.8 | 17364.8 | 16885.4 | 16360.4 | 15770.6 | 15169.5 |
| 5°    | 21314.1 | 21131.5 | 21097.3 | 20884.2 | 20382.0 | 19818.9 | 18966.6 | 17889.9 | 16790.3 | 15496.7 |
| 7.5°  | 21869.6 | 21835.4 | 21991.4 | 21983.8 | 21915.3 | 21470.1 | 20751.0 | 19468.8 | 17817.6 | 15900.0 |
| 10°   | 19392.7 | 19480.2 | 19944.4 | 20351.5 | 21451.1 | 22090.3 | 21934.3 | 20876.6 | 18875.3 | 16360.4 |
| 12.5° | 17136.5 | 17033.8 | 17364.8 | 17825.2 | 19103.6 | 21005.9 | 22425.1 | 22052.2 | 20085.2 | 16881.6 |
| 15°   | 15721.2 | 15679.3 | 15865.7 | 16078.8 | 17052.8 | 18970.4 | 21854.4 | 23007.2 | 21249.4 | 17498.0 |
| 17.5° | 15268.4 | 15234.2 | 15291.2 | 15344.5 | 15976.1 | 17459.9 | 20496.1 | 23593.2 | 22364.2 | 18201.8 |
| 20°   | 15637.5 | 15591.8 | 15584.2 | 15542.3 | 15804.9 | 16816.9 | 19267.2 | 23635.0 | 23364.9 | 18841.0 |
| 22.5° | 16714.2 | 16660.9 | 16474.5 | 16307.1 | 16329.9 | 16904.4 | 18719.3 | 23216.5 | 24118.2 | 19438.4 |
| 25°   | 18666.0 | 18578.5 | 18190.4 | 17627.3 | 17269.7 | 17513.2 | 18803.0 | 22664.8 | 24837.3 | 19906.4 |
| 27.5° | 21108.7 | 20994.5 | 20496.1 | 19659.1 | 18841.0 | 18544.3 | 19408.0 | 22284.3 | 25434.6 | 20264.0 |
| 30°   | 23501.8 | 23353.5 | 22862.6 | 22212.0 | 21017.4 | 20081.4 | 20499.9 | 22451.7 | 26146.1 | 20636.9 |
| 32.5° | 26085.3 | 25944.5 | 25293.9 | 24487.3 | 23498.0 | 22238.7 | 21995.2 | 23269.8 | 27017.4 | 21158.1 |
| 35°   | 29353.5 | 29132.9 | 28208.3 | 27108.7 | 26058.6 | 24784.0 | 24019.3 | 24681.3 | 28177.9 | 21953.3 |
| 37.5° | 33074.6 | 32777.8 | 31780.9 | 30262.9 | 28893.2 | 27466.4 | 26484.8 | 26621.7 | 29878.6 | 23018.6 |
| 40°   | 36582.5 | 36312.4 | 35391.6 | 33961.1 | 32241.3 | 30510.2 | 29463.9 | 29159.5 | 32226.1 | 24316.1 |
| 42.5° | 38686.5 | 38443.0 | 38055.0 | 37450.0 | 36000.4 | 34235.0 | 32914.8 | 32256.5 | 35003.6 | 25868.4 |
| 45°   | 38804.5 | 38591.4 | 39112.7 | 39816.5 | 39531.2 | 38355.5 | 36746.1 | 35540.0 | 37792.4 | 27325.6 |
| 47.5° | 36917.3 | 36772.8 | 38355.5 | 40813.4 | 42038.5 | 42533.1 | 41049.3 | 38549.6 | 40094.3 | 28371.9 |
| 50°   | 31773.3 | 31720.1 | 34976.9 | 39489.3 | 42993.5 | 46193.3 | 45588.3 | 41349.9 | 41878.7 | 28912.2 |
| 52.5° | 27550.1 | 27356.0 | 29254.6 | 35250.9 | 41604.8 | 48118.5 | 50024.6 | 44096.9 | 43126.7 | 29014.9 |
| 55°   | 20895.6 | 20724.4 | 23106.2 | 28158.8 | 37126.6 | 47433.6 | 53270.1 | 46931.4 | 44020.8 | 28752.4 |
| 57.5° | 11208.7 | 11102.2 | 14111.8 | 18742.1 | 29022.5 | 43324.5 | 53856.0 | 49929.5 | 44774.1 | 28056.1 |
| 60°   | 4364.0  | 4345.0  | 5471.2  | 9093.3  | 17638.7 | 35247.1 | 50899.7 | 51729.2 | 45245.9 | 27200.0 |
| 62.5° | 2640.5  | 2697.6  | 2880.2  | 4082.5  | 7792.1  | 21896.2 | 44085.5 | 49682.2 | 45561.7 | 26416.3 |
| 65°   | 2183.9  | 2187.7  | 2210.6  | 2804.1  | 3732.4  | 9161.8  | 33188.7 | 42947.8 | 44781.7 | 25019.9 |
| 67.5° | 1871.9  | 1906.2  | 1993.7  | 2225.8  | 2632.9  | 4017.8  | 19107.4 | 33268.6 | 40037.2 | 21770.7 |
| 70°   | 1476.2  | 1521.9  | 1632.2  | 1830.1  | 2031.7  | 2514.9  | 7061.6  | 22135.9 | 30586.3 | 16409.8 |
| 72.5° | 1244.1  | 1240.3  | 1297.4  | 1487.7  | 1613.2  | 1769.2  | 2716.6  | 12403.4 | 17775.7 | 7833.9  |
| 75°   | 962.6   | 1000.6  | 1072.9  | 1244.1  | 1320.2  | 1282.2  | 1472.4  | 4531.4  | 6369.1  | 2374.2  |
| 77.5° | 753.3   | 783.8   | 848.5   | 1015.9  | 1092.0  | 909.3   | 848.5   | 1620.8  | 2046.9  | 852.3   |
| 80°   | 338.6   | 365.3   | 578.3   | 749.5   | 890.3   | 627.8   | 460.4   | 829.4   | 909.3   | 388.1   |
| 82.5° | 60.9    | 102.7   | 338.6   | 395.7   | 456.6   | 407.1   | 239.7   | 429.9   | 445.2   | 156.0   |
| 85°   | 3.8     | 7.6     | 117.9   | 144.6   | 182.6   | 133.2   | 72.3    | 171.2   | 148.4   | 53.3    |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.8     | 3.8     | 19.0    | 22.8    | 30.4    | 22.8    | 19.0    |
| 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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**CANDELA DISTRIBUTION (continued):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 14868.9 | 0°    | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 | 14868.9 |
| 14903.1 | 2.5°  | 14629.2 | 14088.9 | 13563.9 | 13133.9 | 12882.8 | 12456.7 | 12175.2 | 12129.5 | 12011.5 | 12114.3 |
| 14941.2 | 5°    | 14347.7 | 13381.3 | 12403.4 | 11528.3 | 10809.3 | 9880.9  | 9188.4  | 8895.5  | 8640.6  | 8728.1  |
| 15040.1 | 7.5°  | 14214.5 | 12688.8 | 11166.9 | 9671.6  | 8134.5  | 6650.7  | 5547.3  | 5086.9  | 4736.9  | 4786.4  |
| 15150.5 | 10°   | 14035.7 | 11969.7 | 9584.1  | 7301.3  | 5242.9  | 3778.1  | 3017.2  | 2735.6  | 2579.6  | 2583.4  |
| 15314.1 | 12.5° | 13898.7 | 11109.8 | 7746.4  | 4950.0  | 3192.2  | 2412.2  | 2176.3  | 2107.8  | 2062.2  | 2066.0  |
| 15561.4 | 15°   | 13830.2 | 10097.8 | 5931.6  | 3298.7  | 2282.8  | 2043.1  | 1986.1  | 1955.6  | 1925.2  | 1921.4  |
| 15835.3 | 17.5° | 13716.1 | 8971.6  | 4341.2  | 2408.4  | 1997.5  | 1913.8  | 1864.3  | 1830.1  | 1792.0  | 1784.4  |
| 16071.2 | 20°   | 13544.9 | 7693.2  | 3173.1  | 2035.5  | 1871.9  | 1807.2  | 1738.8  | 1693.1  | 1647.5  | 1639.8  |
| 16219.6 | 22.5° | 13229.1 | 6342.5  | 2438.8  | 1883.3  | 1780.6  | 1708.3  | 1624.6  | 1571.4  | 1525.7  | 1518.1  |
| 16147.3 | 25°   | 12643.1 | 5075.5  | 2054.6  | 1788.2  | 1700.7  | 1613.2  | 1521.9  | 1449.6  | 1407.8  | 1400.1  |
| 15991.3 | 27.5° | 11901.2 | 3987.4  | 1864.3  | 1700.7  | 1598.0  | 1518.1  | 1415.4  | 1346.9  | 1308.8  | 1301.2  |
| 15785.8 | 30°   | 11026.1 | 3070.4  | 1754.0  | 1601.8  | 1476.2  | 1407.8  | 1316.4  | 1259.4  | 1236.5  | 1236.5  |
| 15641.3 | 32.5° | 10082.5 | 2454.1  | 1708.3  | 1502.9  | 1369.7  | 1293.6  | 1221.3  | 1198.5  | 1190.9  | 1187.1  |
| 15721.2 | 35°   | 9196.0  | 2130.7  | 1685.5  | 1423.0  | 1274.6  | 1202.3  | 1171.9  | 1175.7  | 1190.9  | 1190.9  |
| 15968.5 | 37.5° | 8408.5  | 2027.9  | 1674.1  | 1365.9  | 1190.9  | 1126.2  | 1145.2  | 1179.5  | 1164.2  | 1164.2  |
| 16402.2 | 40°   | 7697.0  | 2039.3  | 1666.5  | 1324.0  | 1122.4  | 1084.3  | 1122.4  | 1095.8  | 1057.7  | 1053.9  |
| 16931.1 | 42.5° | 7152.9  | 2134.5  | 1651.3  | 1289.8  | 1080.5  | 1053.9  | 1038.7  | 996.8   | 993.0   | 1000.6  |
| 17479.0 | 45°   | 6757.2  | 2218.2  | 1647.5  | 1274.6  | 1034.9  | 985.4   | 966.4   | 924.6   | 1000.6  | 1019.7  |
| 17703.4 | 47.5° | 6289.2  | 2218.2  | 1647.5  | 1221.3  | 958.8   | 939.8   | 909.3   | 863.7   | 939.8   | 958.8   |
| 17490.4 | 50°   | 5684.3  | 2077.4  | 1582.8  | 1160.4  | 897.9   | 886.5   | 833.2   | 776.2   | 760.9   | 772.4   |
| 16991.9 | 52.5° | 4919.5  | 1822.5  | 1419.2  | 1076.7  | 837.0   | 814.2   | 749.5   | 707.7   | 696.3   | 696.3   |
| 16097.8 | 55°   | 4048.2  | 1525.7  | 1198.5  | 955.0   | 772.4   | 730.5   | 684.9   | 665.8   | 654.4   | 646.8   |
| 14846.1 | 57.5° | 3291.1  | 1251.8  | 962.6   | 848.5   | 711.5   | 658.2   | 643.0   | 620.2   | 601.1   | 589.7   |
| 13799.8 | 60°   | 2701.4  | 985.4   | 795.2   | 753.3   | 650.6   | 601.1   | 597.3   | 566.9   | 517.4   | 509.8   |
| 12936.1 | 62.5° | 2085.0  | 722.9   | 669.6   | 654.4   | 589.7   | 547.9   | 540.3   | 479.4   | 403.3   | 388.1   |
| 11711.0 | 65°   | 1472.4  | 563.1   | 540.3   | 574.5   | 525.1   | 487.0   | 468.0   | 376.7   | 296.8   | 285.4   |
| 9801.0  | 67.5° | 1034.9  | 471.8   | 426.1   | 502.2   | 456.6   | 407.1   | 395.7   | 319.6   | 247.3   | 239.7   |
| 7411.6  | 70°   | 738.1   | 384.3   | 350.0   | 429.9   | 365.3   | 357.6   | 334.8   | 266.3   | 201.7   | 194.0   |
| 3667.8  | 72.5° | 521.2   | 293.0   | 270.1   | 372.9   | 251.1   | 308.2   | 273.9   | 205.5   | 152.2   | 144.6   |
| 1248.0  | 75°   | 384.3   | 209.3   | 190.2   | 216.9   | 182.6   | 232.1   | 194.0   | 137.0   | 95.1    | 91.3    |
| 563.1   | 77.5° | 281.6   | 133.2   | 114.1   | 106.5   | 106.5   | 144.6   | 106.5   | 57.1    | 41.9    | 38.0    |
| 285.4   | 80°   | 197.8   | 60.9    | 53.3    | 45.7    | 41.9    | 34.2    | 15.2    | 7.6     | 3.8     | 3.8     |
| 98.9    | 82.5° | 117.9   | 26.6    | 26.6    | 19.0    | 11.4    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 38.0    | 85°   | 26.6    | 11.4    | 11.4    | 3.8     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 15.2    | 87.5° | 3.8     | 3.8     | 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     |

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