

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: P950250

Luminaire Tested: **GLAN-SB4D-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950250  
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-SB4D-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 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: 34773 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

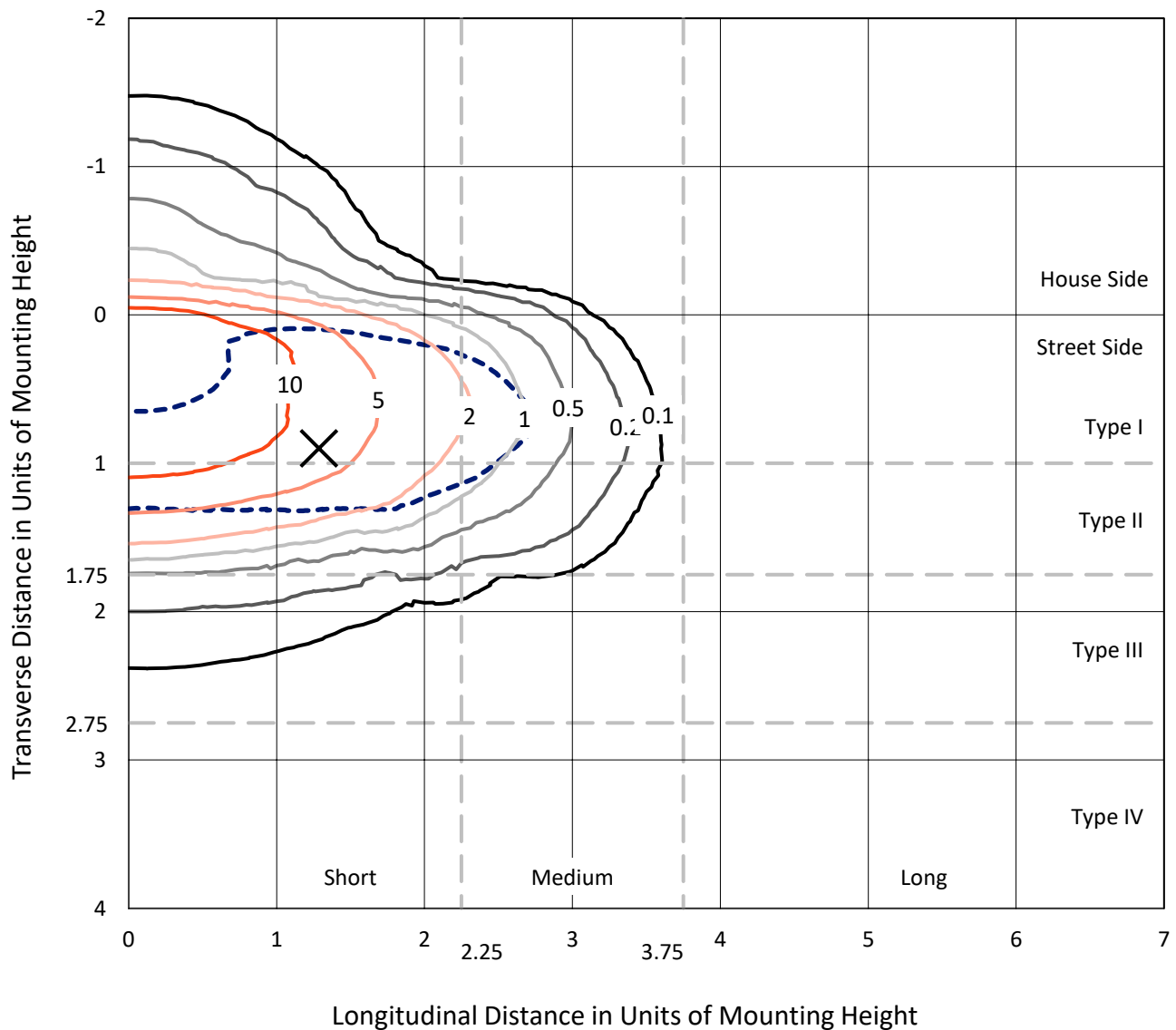
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

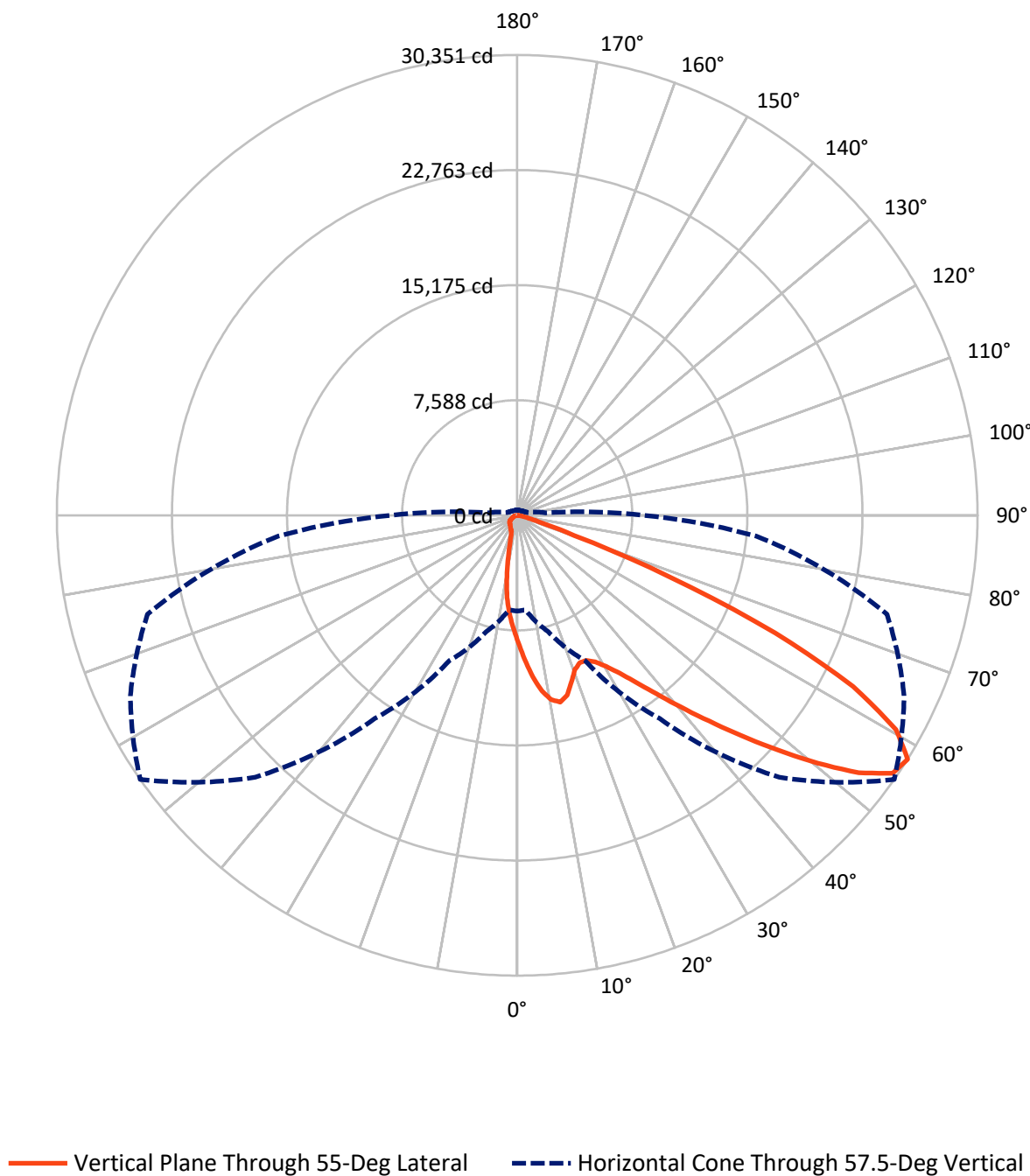
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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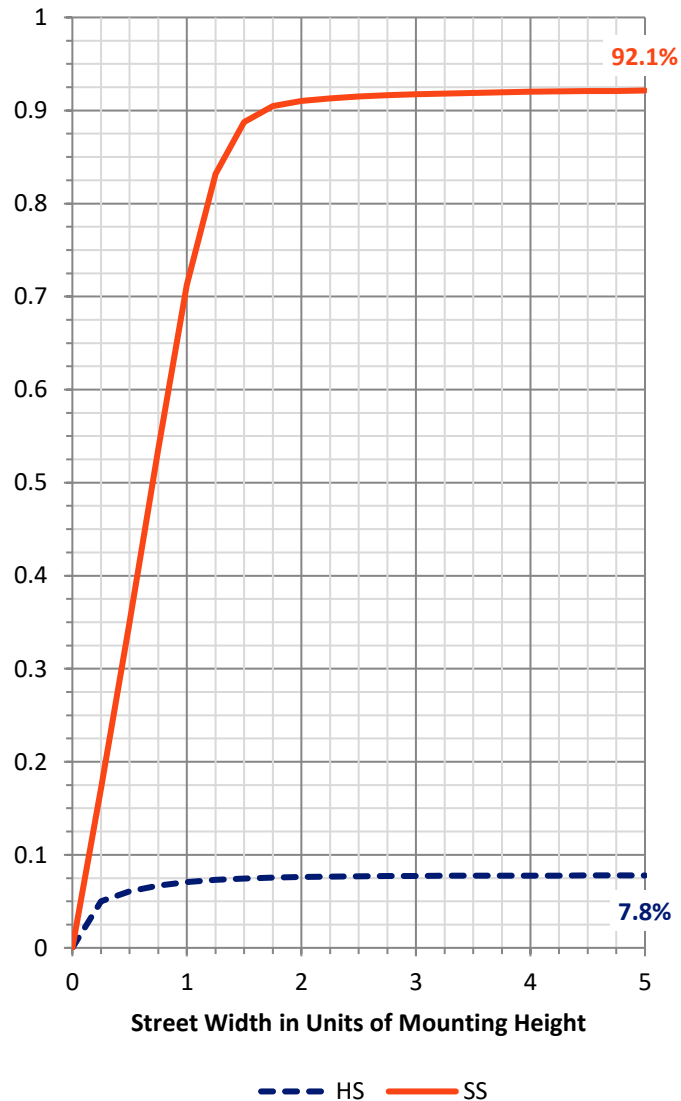
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2715.6   | 0.0    | 2715.6  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 32057.4  | 0.0    | 32057.4 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 34773.0  | 0.0    | 34773.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 779.7   | 2.2       |
| 10°-20°   | 1883.3  | 5.4       |
| 20°-30°   | 3013.2  | 8.7       |
| 30°-40°   | 5100.0  | 14.7      |
| 40°-50°   | 8373.2  | 24.1      |
| 50°-60°   | 9202.7  | 26.5      |
| 60°-70°   | 5278.7  | 15.2      |
| 70°-80°   | 1078.6  | 3.1       |
| 80°-90°   | 63.6    | 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°    | 34773.0 | 100.0     |
| 0°-180°   | 34773.0 | 100.0     |

**Coefficient of Utilization**



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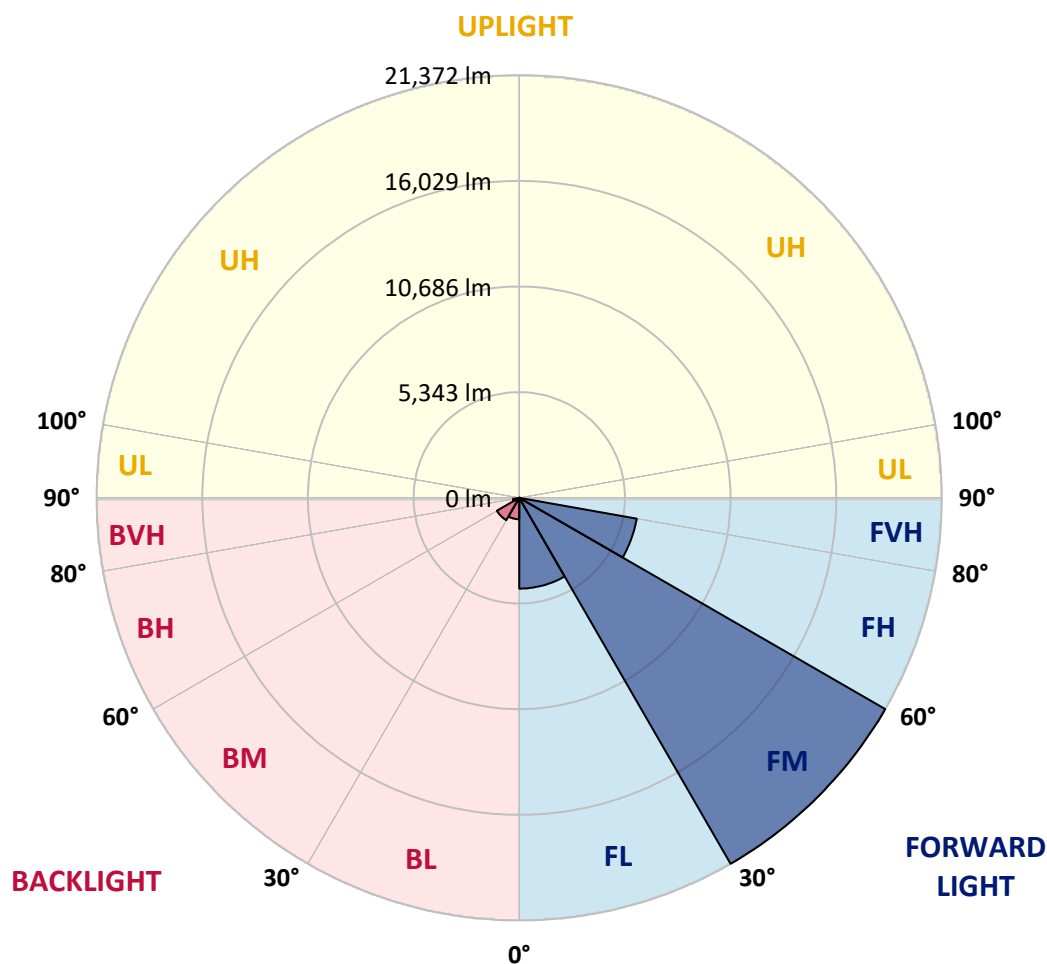
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4592.0  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 21371.7 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 6034.3  | 17.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 59.3    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1084.2  | 3.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1304.2  | 3.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 323.0   | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 4.3     | 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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8379.4  | 8379.4  | 8379.4  | 8379.4  | 8379.4  | 8379.4  | 8379.4  | 8379.4  | 8379.4  | 8379.4  |
| 2.5°  | 10397.1 | 10266.3 | 10247.0 | 10221.3 | 9972.6  | 9786.0  | 9515.8  | 9220.0  | 8887.6  | 8548.8  |
| 5°    | 12011.7 | 11908.7 | 11889.5 | 11769.4 | 11486.3 | 11169.0 | 10688.7 | 10081.9 | 9462.2  | 8733.2  |
| 7.5°  | 12324.7 | 12305.4 | 12393.3 | 12389.0 | 12350.4 | 12099.6 | 11694.3 | 10971.7 | 10041.2 | 8960.5  |
| 10°   | 10928.9 | 10978.2 | 11239.8 | 11469.2 | 12088.9 | 12449.1 | 12361.2 | 11765.1 | 10637.3 | 9220.0  |
| 12.5° | 9657.4  | 9599.5  | 9786.0  | 10045.5 | 10765.9 | 11838.0 | 12637.8 | 12427.6 | 11319.1 | 9513.7  |
| 15°   | 8859.7  | 8836.1  | 8941.2  | 9061.3  | 9610.2  | 10690.9 | 12316.1 | 12965.8 | 11975.2 | 9861.1  |
| 17.5° | 8604.6  | 8585.3  | 8617.4  | 8647.5  | 9003.4  | 9839.6  | 11550.7 | 13296.0 | 12603.5 | 10257.7 |
| 20°   | 8812.6  | 8786.8  | 8782.5  | 8759.0  | 8906.9  | 9477.3  | 10858.1 | 13319.6 | 13167.4 | 10618.0 |
| 22.5° | 9419.4  | 9389.3  | 9284.3  | 9189.9  | 9202.8  | 9526.6  | 10549.3 | 13083.8 | 13591.9 | 10954.6 |
| 25°   | 10519.3 | 10470.0 | 10251.3 | 9934.0  | 9732.4  | 9869.6  | 10596.5 | 12772.9 | 13997.2 | 11218.3 |
| 27.5° | 11895.9 | 11831.6 | 11550.7 | 11079.0 | 10618.0 | 10450.7 | 10937.4 | 12558.4 | 14333.8 | 11419.9 |
| 30°   | 13244.6 | 13160.9 | 12884.3 | 12517.7 | 11844.4 | 11317.0 | 11552.8 | 12652.8 | 14734.8 | 11630.0 |
| 32.5° | 14700.5 | 14621.1 | 14254.5 | 13799.9 | 13242.4 | 12532.7 | 12395.5 | 13113.8 | 15225.8 | 11923.8 |
| 35°   | 16542.3 | 16417.9 | 15896.9 | 15277.2 | 14685.5 | 13967.2 | 13536.2 | 13909.3 | 15879.8 | 12371.9 |
| 37.5° | 18639.3 | 18472.1 | 17910.3 | 17054.8 | 16282.9 | 15478.8 | 14925.6 | 15002.8 | 16838.2 | 12972.3 |
| 40°   | 20616.2 | 20464.0 | 19945.1 | 19138.9 | 18169.7 | 17194.1 | 16604.5 | 16433.0 | 18161.2 | 13703.4 |
| 42.5° | 21802.0 | 21664.7 | 21446.0 | 21105.1 | 20288.2 | 19293.3 | 18549.3 | 18178.3 | 19726.4 | 14578.2 |
| 45°   | 21868.4 | 21748.4 | 22042.1 | 22438.8 | 22278.0 | 21615.4 | 20708.4 | 20028.7 | 21298.1 | 15399.5 |
| 47.5° | 20804.9 | 20723.5 | 21615.4 | 23000.6 | 23691.0 | 23969.7 | 23133.5 | 21724.8 | 22595.3 | 15989.1 |
| 50°   | 17906.0 | 17876.0 | 19711.4 | 22254.4 | 24229.2 | 26032.4 | 25691.5 | 23302.9 | 23600.9 | 16293.6 |
| 52.5° | 15526.0 | 15416.6 | 16486.6 | 19865.8 | 23446.6 | 27117.4 | 28191.6 | 24851.0 | 24304.2 | 16351.5 |
| 55°   | 11775.8 | 11679.3 | 13021.6 | 15869.0 | 20922.9 | 26731.4 | 30020.6 | 26448.4 | 24808.1 | 16203.5 |
| 57.5° | 6316.7  | 6256.7  | 7952.7  | 10562.2 | 16355.8 | 24415.7 | 30350.8 | 28138.0 | 25232.7 | 15811.1 |
| 60°   | 2459.4  | 2448.6  | 3083.3  | 5124.6  | 9940.4  | 19863.6 | 28684.8 | 29152.2 | 25498.5 | 15328.7 |
| 62.5° | 1488.1  | 1520.2  | 1623.1  | 2300.7  | 4391.3  | 12339.7 | 24844.6 | 27998.6 | 25676.5 | 14887.0 |
| 65°   | 1230.8  | 1232.9  | 1245.8  | 1580.3  | 2103.4  | 5163.2  | 18703.6 | 24203.4 | 25236.9 | 14100.1 |
| 67.5° | 1054.9  | 1074.2  | 1123.5  | 1254.3  | 1483.8  | 2264.2  | 10768.0 | 18748.7 | 22563.2 | 12269.0 |
| 70°   | 831.9   | 857.7   | 919.9   | 1031.3  | 1145.0  | 1417.3  | 3979.6  | 12474.8 | 17237.0 | 9247.8  |
| 72.5° | 701.1   | 699.0   | 731.2   | 838.4   | 909.1   | 997.0   | 1530.9  | 6990.0  | 10017.6 | 4414.9  |
| 75°   | 542.5   | 563.9   | 604.7   | 701.1   | 744.0   | 722.6   | 829.8   | 2553.7  | 3589.3  | 1338.0  |
| 77.5° | 424.5   | 441.7   | 478.2   | 572.5   | 615.4   | 512.5   | 478.2   | 913.4   | 1153.6  | 480.3   |
| 80°   | 190.8   | 205.8   | 325.9   | 422.4   | 501.7   | 353.8   | 259.4   | 467.4   | 512.5   | 218.7   |
| 82.5° | 34.3    | 57.9    | 190.8   | 223.0   | 257.3   | 229.4   | 135.1   | 242.3   | 250.9   | 87.9    |
| 85°   | 2.1     | 4.3     | 66.5    | 81.5    | 102.9   | 75.0    | 40.7    | 96.5    | 83.6    | 30.0    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.1     | 2.1     | 10.7    | 12.9    | 17.2    | 12.9    | 10.7    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8379.4 | 0°    | 8379.4 | 8379.4 | 8379.4 | 8379.4 | 8379.4 | 8379.4 | 8379.4 | 8379.4 | 8379.4 | 8379.4 |
| 8398.7 | 2.5°  | 8244.4 | 7939.9 | 7644.0 | 7401.7 | 7260.2 | 7020.0 | 6861.4 | 6835.6 | 6769.2 | 6827.1 |
| 8420.2 | 5°    | 8085.7 | 7541.1 | 6990.0 | 6496.9 | 6091.6 | 5568.4 | 5178.2 | 5013.1 | 4869.4 | 4918.7 |
| 8475.9 | 7.5°  | 8010.6 | 7150.8 | 6293.2 | 5450.5 | 4584.2 | 3748.0 | 3126.2 | 2866.8 | 2669.5 | 2697.4 |
| 8538.1 | 10°   | 7909.9 | 6745.6 | 5401.2 | 4114.7 | 2954.7 | 2129.2 | 1700.3 | 1541.7 | 1453.8 | 1455.9 |
| 8630.3 | 12.5° | 7832.7 | 6261.0 | 4365.5 | 2789.6 | 1799.0 | 1359.4 | 1226.5 | 1187.9 | 1162.1 | 1164.3 |
| 8769.7 | 15°   | 7794.1 | 5690.6 | 3342.8 | 1859.0 | 1286.5 | 1151.4 | 1119.3 | 1102.1 | 1085.0 | 1082.8 |
| 8924.1 | 17.5° | 7729.8 | 5056.0 | 2446.5 | 1357.3 | 1125.7 | 1078.5 | 1050.6 | 1031.3 | 1009.9 | 1005.6 |
| 9057.0 | 20°   | 7633.3 | 4335.5 | 1788.2 | 1147.1 | 1054.9 | 1018.5 | 979.9  | 954.2  | 928.4  | 924.1  |
| 9140.6 | 22.5° | 7455.3 | 3574.3 | 1374.4 | 1061.4 | 1003.5 | 962.7  | 915.6  | 885.5  | 859.8  | 855.5  |
| 9099.9 | 25°   | 7125.1 | 2860.3 | 1157.9 | 1007.8 | 958.4  | 909.1  | 857.7  | 816.9  | 793.3  | 789.1  |
| 9012.0 | 27.5° | 6707.0 | 2247.1 | 1050.6 | 958.4  | 900.6  | 855.5  | 797.6  | 759.0  | 737.6  | 733.3  |
| 8896.2 | 30°   | 6213.8 | 1730.3 | 988.5  | 902.7  | 831.9  | 793.3  | 741.9  | 709.7  | 696.9  | 696.9  |
| 8814.7 | 32.5° | 5682.1 | 1383.0 | 962.7  | 846.9  | 771.9  | 729.0  | 688.3  | 675.4  | 671.1  | 669.0  |
| 8859.7 | 35°   | 5182.5 | 1200.7 | 949.9  | 801.9  | 718.3  | 677.6  | 660.4  | 662.6  | 671.1  | 671.1  |
| 8999.1 | 37.5° | 4738.6 | 1142.8 | 943.4  | 769.8  | 671.1  | 634.7  | 645.4  | 664.7  | 656.1  | 656.1  |
| 9243.5 | 40°   | 4337.7 | 1149.3 | 939.1  | 746.2  | 632.5  | 611.1  | 632.5  | 617.5  | 596.1  | 593.9  |
| 9541.6 | 42.5° | 4031.0 | 1202.9 | 930.6  | 726.9  | 608.9  | 593.9  | 585.4  | 561.8  | 559.6  | 563.9  |
| 9850.3 | 45°   | 3808.1 | 1250.1 | 928.4  | 718.3  | 583.2  | 555.3  | 544.6  | 521.0  | 563.9  | 574.6  |
| 9976.8 | 47.5° | 3544.3 | 1250.1 | 928.4  | 688.3  | 540.3  | 529.6  | 512.5  | 486.7  | 529.6  | 540.3  |
| 9856.8 | 50°   | 3203.4 | 1170.7 | 892.0  | 654.0  | 506.0  | 499.6  | 469.6  | 437.4  | 428.8  | 435.3  |
| 9575.9 | 52.5° | 2772.4 | 1027.1 | 799.8  | 606.8  | 471.7  | 458.9  | 422.4  | 398.8  | 392.4  | 392.4  |
| 9072.0 | 55°   | 2281.4 | 859.8  | 675.4  | 538.2  | 435.3  | 411.7  | 386.0  | 375.2  | 368.8  | 364.5  |
| 8366.6 | 57.5° | 1854.7 | 705.4  | 542.5  | 478.2  | 401.0  | 370.9  | 362.4  | 349.5  | 338.8  | 332.3  |
| 7776.9 | 60°   | 1522.4 | 555.3  | 448.1  | 424.5  | 366.7  | 338.8  | 336.6  | 319.5  | 291.6  | 287.3  |
| 7290.2 | 62.5° | 1175.0 | 407.4  | 377.4  | 368.8  | 332.3  | 308.8  | 304.5  | 270.2  | 227.3  | 218.7  |
| 6599.8 | 65°   | 829.8  | 317.3  | 304.5  | 323.8  | 295.9  | 274.5  | 263.7  | 212.3  | 167.2  | 160.8  |
| 5523.4 | 67.5° | 583.2  | 265.9  | 240.1  | 283.0  | 257.3  | 229.4  | 223.0  | 180.1  | 139.4  | 135.1  |
| 4176.9 | 70°   | 416.0  | 216.6  | 197.3  | 242.3  | 205.8  | 201.6  | 188.7  | 150.1  | 113.6  | 109.4  |
| 2067.0 | 72.5° | 293.8  | 165.1  | 152.2  | 210.1  | 141.5  | 173.7  | 154.4  | 115.8  | 85.8   | 81.5   |
| 703.3  | 75°   | 216.6  | 117.9  | 107.2  | 122.2  | 102.9  | 130.8  | 109.4  | 77.2   | 53.6   | 51.5   |
| 317.3  | 77.5° | 158.7  | 75.0   | 64.3   | 60.0   | 60.0   | 81.5   | 60.0   | 32.2   | 23.6   | 21.4   |
| 160.8  | 80°   | 111.5  | 34.3   | 30.0   | 25.7   | 23.6   | 19.3   | 8.6    | 4.3    | 2.1    | 2.1    |
| 55.7   | 82.5° | 66.5   | 15.0   | 15.0   | 10.7   | 6.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 21.4   | 85°   | 15.0   | 6.4    | 6.4    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8.6    | 87.5° | 2.1    | 2.1    | 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    |

(END OF RI



