

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: P947205

Luminaire Tested: **GLAN-SB2C-850-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947205  
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-SB2C-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 615mA 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: 12214 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

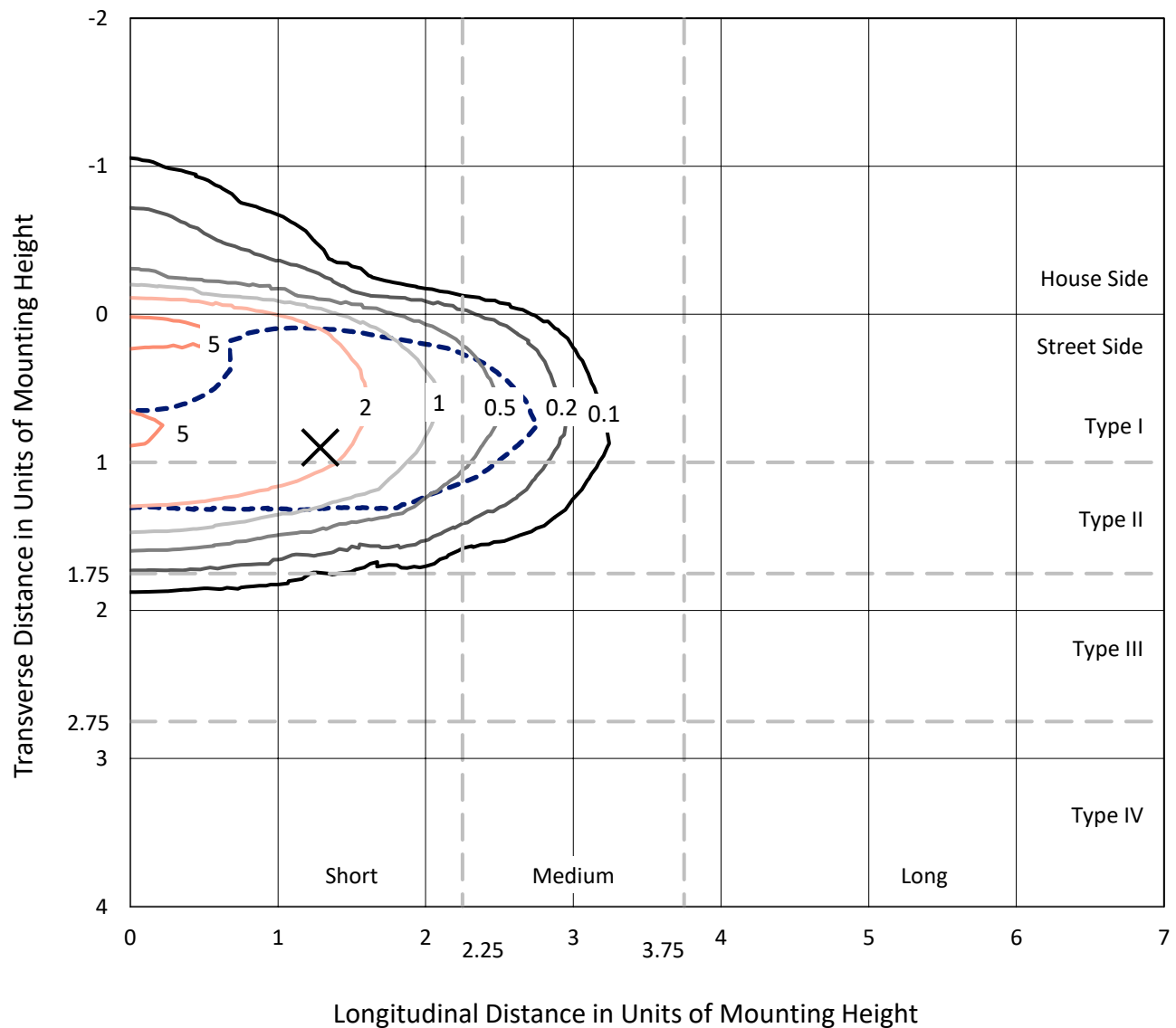
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

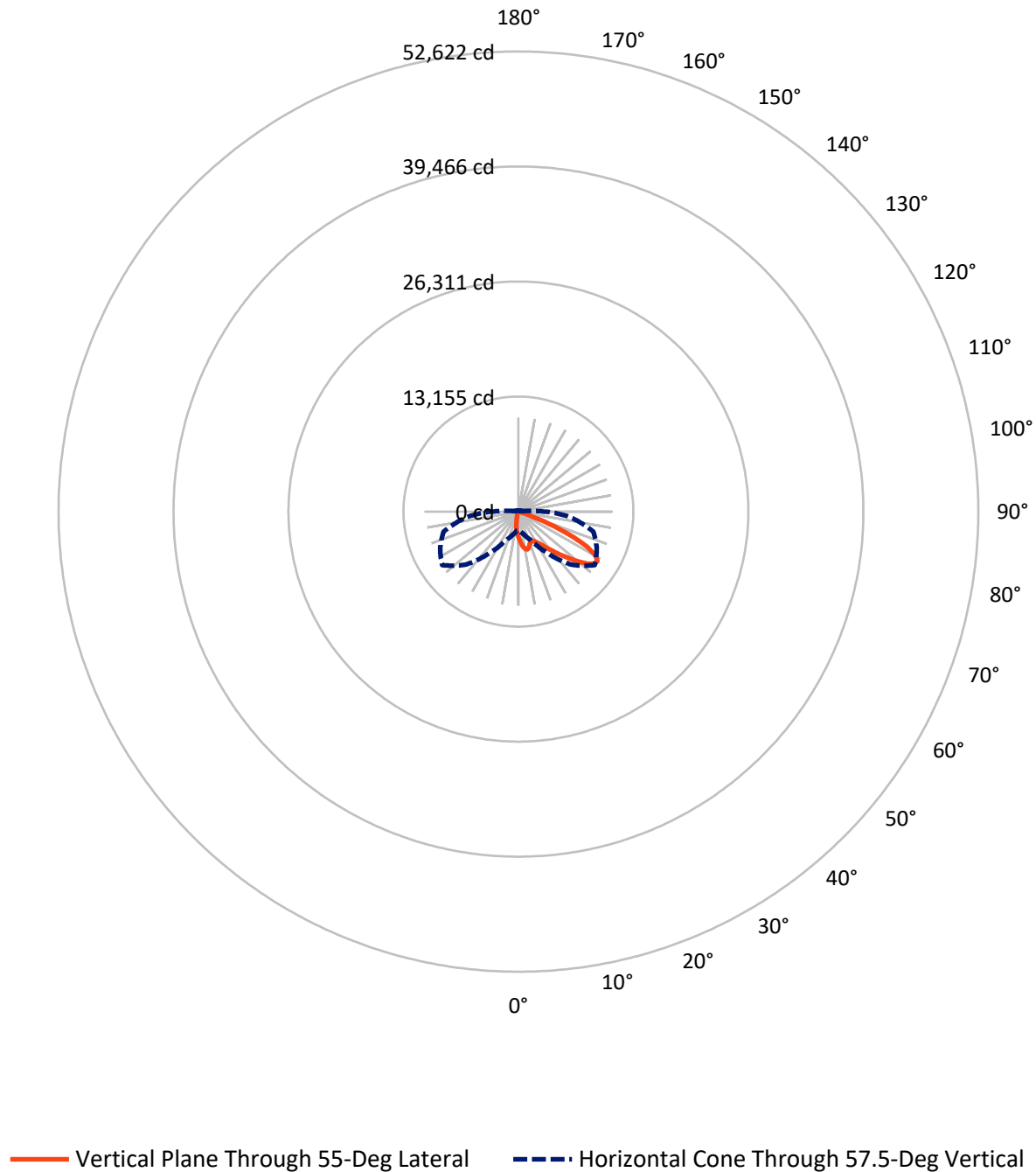
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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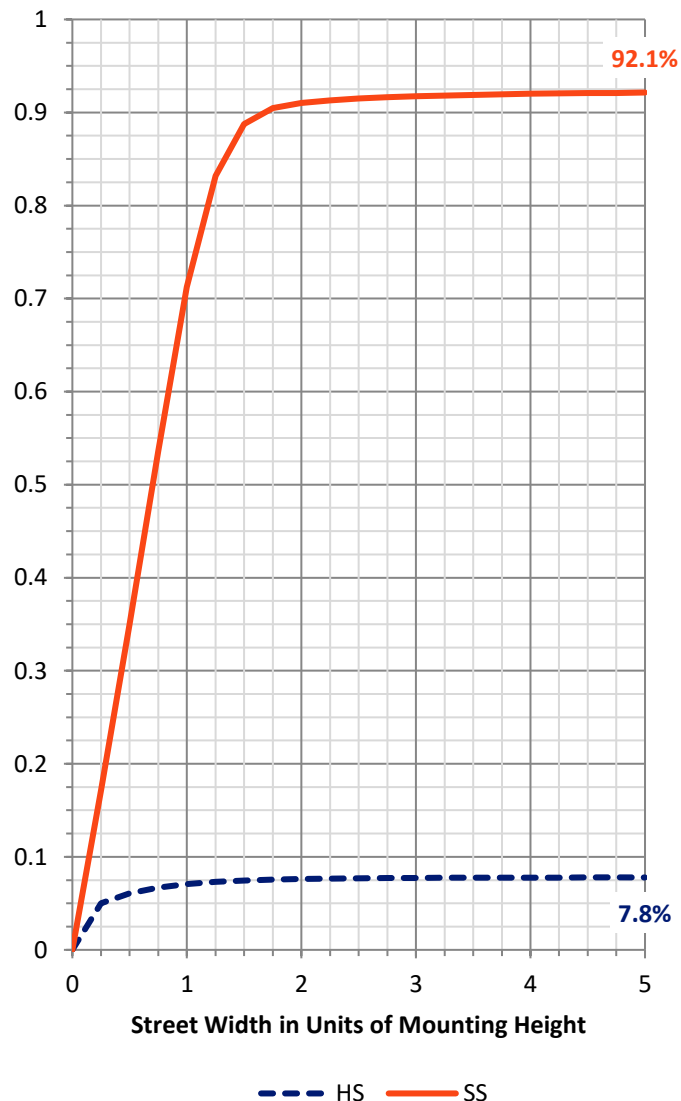
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 953.9    | 0.0    | 953.9   |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 11260.1  | 0.0    | 11260.1 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 12214.0  | 0.0    | 12214.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.9   | 2.2       |
| 10°-20°   | 661.5   | 5.4       |
| 20°-30°   | 1058.4  | 8.7       |
| 30°-40°   | 1791.4  | 14.7      |
| 40°-50°   | 2941.1  | 24.1      |
| 50°-60°   | 3232.5  | 26.5      |
| 60°-70°   | 1854.1  | 15.2      |
| 70°-80°   | 378.9   | 3.1       |
| 80°-90°   | 22.4    | 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°    | 12214.0 | 100.0     |
| 0°-180°   | 12214.0 | 100.0     |

**Coefficient of Utilization**



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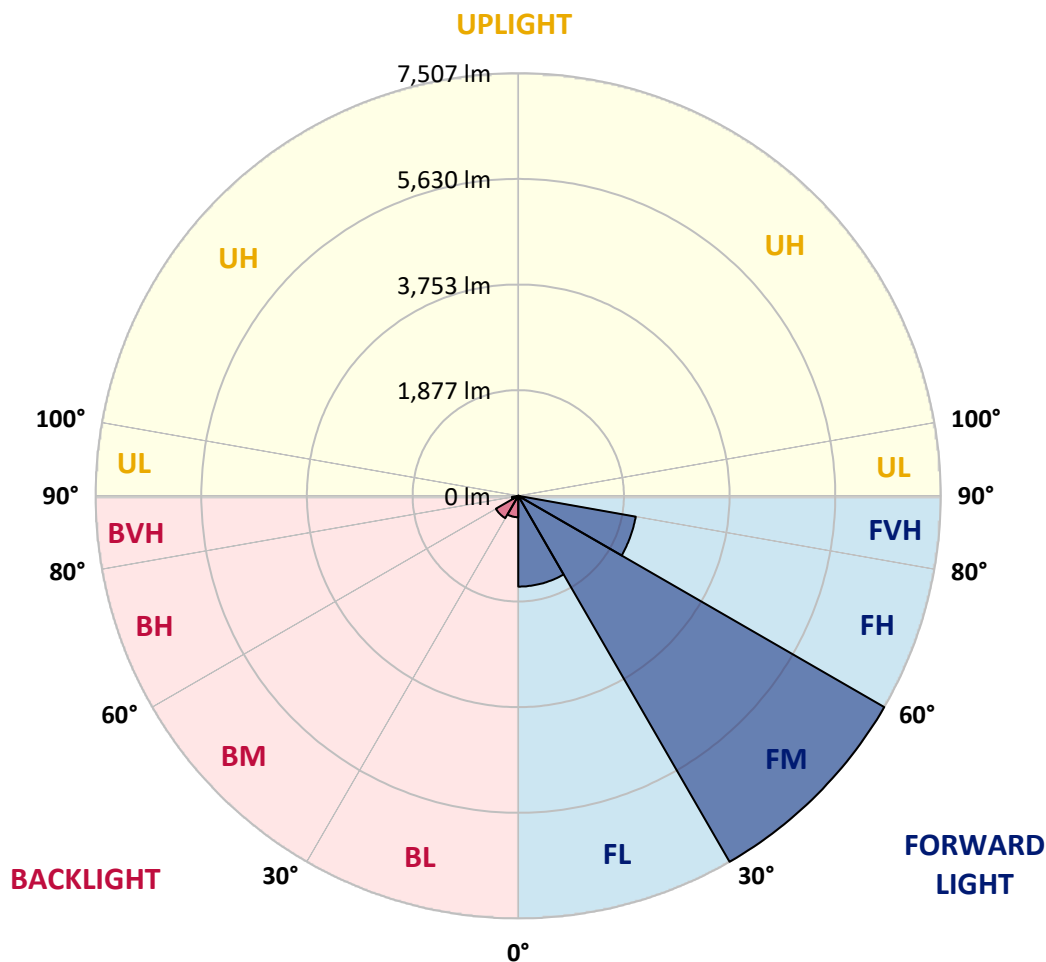
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1612.9 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 7506.8 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 2119.6 | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 20.8   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 380.8  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 458.1  | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 113.4  | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.5    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3  | 2943.3  | 2943.3 | 2943.3 |
| 2.5°  | 3652.0 | 3606.0 | 3599.3 | 3590.2 | 3502.9 | 3437.3 | 3342.4  | 3238.5  | 3121.8 | 3002.8 |
| 5°    | 4219.1 | 4182.9 | 4176.2 | 4134.0 | 4034.6 | 3923.1 | 3754.4  | 3541.3  | 3323.6 | 3067.5 |
| 7.5°  | 4329.1 | 4322.3 | 4353.2 | 4351.6 | 4338.1 | 4250.0 | 4107.6  | 3853.8  | 3527.0 | 3147.4 |
| 10°   | 3838.8 | 3856.1 | 3948.0 | 4028.5 | 4246.2 | 4372.7 | 4341.9  | 4132.5  | 3736.3 | 3238.5 |
| 12.5° | 3392.1 | 3371.8 | 3437.3 | 3528.5 | 3781.5 | 4158.1 | 4439.0  | 4365.2  | 3975.8 | 3341.7 |
| 15°   | 3112.0 | 3103.7 | 3140.6 | 3182.8 | 3375.6 | 3755.2 | 4326.0  | 4554.2  | 4206.3 | 3463.7 |
| 17.5° | 3022.4 | 3015.6 | 3026.9 | 3037.4 | 3162.4 | 3456.2 | 4057.2  | 4670.2  | 4427.0 | 3603.0 |
| 20°   | 3095.4 | 3086.4 | 3084.9 | 3076.6 | 3128.5 | 3328.9 | 3813.9  | 4678.5  | 4625.0 | 3729.6 |
| 22.5° | 3308.5 | 3298.0 | 3261.1 | 3228.0 | 3232.5 | 3346.2 | 3705.5  | 4595.7  | 4774.2 | 3847.8 |
| 25°   | 3694.9 | 3677.6 | 3600.8 | 3489.3 | 3418.5 | 3466.7 | 3722.0  | 4486.5  | 4916.5 | 3940.4 |
| 27.5° | 4178.4 | 4155.8 | 4057.2 | 3891.5 | 3729.6 | 3670.8 | 3841.8  | 4411.1  | 5034.7 | 4011.2 |
| 30°   | 4652.1 | 4622.8 | 4525.6 | 4396.8 | 4160.3 | 3975.1 | 4057.9  | 4444.3  | 5175.6 | 4085.0 |
| 32.5° | 5163.5 | 5135.7 | 5006.9 | 4847.2 | 4651.4 | 4402.1 | 4353.9  | 4606.2  | 5348.1 | 4188.2 |
| 35°   | 5810.5 | 5766.8 | 5583.8 | 5366.1 | 5158.3 | 4906.0 | 4754.6  | 4885.6  | 5577.8 | 4345.6 |
| 37.5° | 6547.1 | 6488.3 | 6291.0 | 5990.5 | 5719.3 | 5436.9 | 5242.6  | 5269.7  | 5914.4 | 4556.5 |
| 40°   | 7241.4 | 7188.0 | 7005.7 | 6722.5 | 6382.1 | 6039.4 | 5832.3  | 5772.1  | 6379.1 | 4813.3 |
| 42.5° | 7657.9 | 7609.7 | 7532.9 | 7413.2 | 7126.2 | 6776.8 | 6515.4  | 6385.1  | 6928.9 | 5120.6 |
| 45°   | 7681.3 | 7639.1 | 7742.3 | 7881.6 | 7825.1 | 7592.4 | 7273.8  | 7035.1  | 7480.9 | 5409.1 |
| 47.5° | 7307.7 | 7279.1 | 7592.4 | 8078.9 | 8321.4 | 8419.4 | 8125.6  | 7630.8  | 7936.6 | 5616.2 |
| 50°   | 6289.5 | 6278.9 | 6923.6 | 7816.8 | 8510.5 | 9143.9 | 9024.1  | 8185.1  | 8289.8 | 5723.1 |
| 52.5° | 5453.5 | 5415.1 | 5790.9 | 6977.8 | 8235.6 | 9525.0 | 9902.3  | 8728.9  | 8536.8 | 5743.4 |
| 55°   | 4136.2 | 4102.4 | 4573.8 | 5574.0 | 7349.1 | 9389.4 | 10544.7 | 9290.0  | 8713.8 | 5691.5 |
| 57.5° | 2218.8 | 2197.7 | 2793.4 | 3710.0 | 5745.0 | 8576.0 | 10660.7 | 9883.5  | 8863.0 | 5553.7 |
| 60°   | 863.9  | 860.1  | 1083.0 | 1800.0 | 3491.6 | 6977.1 | 10075.5 | 10239.7 | 8956.3 | 5384.2 |
| 62.5° | 522.7  | 534.0  | 570.1  | 808.1  | 1542.4 | 4334.3 | 8726.6  | 9834.5  | 9018.9 | 5229.1 |
| 65°   | 432.3  | 433.1  | 437.6  | 555.1  | 738.8  | 1813.6 | 6569.6  | 8501.4  | 8864.5 | 4952.7 |
| 67.5° | 370.5  | 377.3  | 394.6  | 440.6  | 521.2  | 795.3  | 3782.3  | 6585.5  | 7925.3 | 4309.5 |
| 70°   | 292.2  | 301.3  | 323.1  | 362.3  | 402.2  | 497.8  | 1397.8  | 4381.8  | 6054.5 | 3248.3 |
| 72.5° | 246.3  | 245.5  | 256.8  | 294.5  | 319.3  | 350.2  | 537.7   | 2455.2  | 3518.7 | 1550.7 |
| 75°   | 190.5  | 198.1  | 212.4  | 246.3  | 261.3  | 253.8  | 291.5   | 897.0   | 1260.8 | 470.0  |
| 77.5° | 149.1  | 155.1  | 168.0  | 201.1  | 216.2  | 180.0  | 168.0   | 320.8   | 405.2  | 168.7  |
| 80°   | 67.0   | 72.3   | 114.5  | 148.4  | 176.2  | 124.3  | 91.1    | 164.2   | 180.0  | 76.8   |
| 82.5° | 12.1   | 20.3   | 67.0   | 78.3   | 90.4   | 80.6   | 47.4    | 85.1    | 88.1   | 30.9   |
| 85°   | 0.8    | 1.5    | 23.3   | 28.6   | 36.2   | 26.4   | 14.3    | 33.9    | 29.4   | 10.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 3.8    | 4.5     | 6.0     | 4.5    | 3.8    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2943.3 | 0°    | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3 | 2943.3 |
| 2950.1 | 2.5°  | 2895.8 | 2788.9 | 2684.9 | 2599.8 | 2550.1 | 2465.8 | 2410.0 | 2401.0 | 2377.7 | 2398.0 |
| 2957.6 | 5°    | 2840.1 | 2648.8 | 2455.2 | 2282.0 | 2139.7 | 1955.9 | 1818.8 | 1760.8 | 1710.4 | 1727.7 |
| 2977.2 | 7.5°  | 2813.7 | 2511.7 | 2210.5 | 1914.5 | 1610.2 | 1316.5 | 1098.1 | 1006.9 | 937.7  | 947.5  |
| 2999.0 | 10°   | 2778.3 | 2369.4 | 1897.2 | 1445.3 | 1037.8 | 747.9  | 597.2  | 541.5  | 510.6  | 511.4  |
| 3031.4 | 12.5° | 2751.2 | 2199.2 | 1533.4 | 979.8  | 631.9  | 477.5  | 430.8  | 417.2  | 408.2  | 409.0  |
| 3080.3 | 15°   | 2737.7 | 1998.8 | 1174.1 | 653.0  | 451.9  | 404.4  | 393.1  | 387.1  | 381.1  | 380.3  |
| 3134.6 | 17.5° | 2715.1 | 1775.9 | 859.3  | 476.7  | 395.4  | 378.8  | 369.0  | 362.3  | 354.7  | 353.2  |
| 3181.3 | 20°   | 2681.2 | 1522.9 | 628.1  | 402.9  | 370.5  | 357.7  | 344.2  | 335.1  | 326.1  | 324.6  |
| 3210.6 | 22.5° | 2618.7 | 1255.5 | 482.8  | 372.8  | 352.5  | 338.2  | 321.6  | 311.0  | 302.0  | 300.5  |
| 3196.3 | 25°   | 2502.7 | 1004.7 | 406.7  | 354.0  | 336.7  | 319.3  | 301.3  | 286.9  | 278.7  | 277.2  |
| 3165.4 | 27.5° | 2355.8 | 789.3  | 369.0  | 336.7  | 316.3  | 300.5  | 280.2  | 266.6  | 259.1  | 257.6  |
| 3124.8 | 30°   | 2182.6 | 607.8  | 347.2  | 317.1  | 292.2  | 278.7  | 260.6  | 249.3  | 244.8  | 244.8  |
| 3096.2 | 32.5° | 1995.8 | 485.8  | 338.2  | 297.5  | 271.1  | 256.1  | 241.8  | 237.2  | 235.7  | 235.0  |
| 3112.0 | 35°   | 1820.3 | 421.8  | 333.6  | 281.7  | 252.3  | 238.0  | 232.0  | 232.7  | 235.7  | 235.7  |
| 3160.9 | 37.5° | 1664.4 | 401.4  | 331.4  | 270.4  | 235.7  | 222.9  | 226.7  | 233.5  | 230.5  | 230.5  |
| 3246.8 | 40°   | 1523.6 | 403.7  | 329.9  | 262.1  | 222.2  | 214.6  | 222.2  | 216.9  | 209.4  | 208.6  |
| 3351.5 | 42.5° | 1415.9 | 422.5  | 326.9  | 255.3  | 213.9  | 208.6  | 205.6  | 197.3  | 196.6  | 198.1  |
| 3459.9 | 45°   | 1337.6 | 439.1  | 326.1  | 252.3  | 204.9  | 195.1  | 191.3  | 183.0  | 198.1  | 201.8  |
| 3504.4 | 47.5° | 1244.9 | 439.1  | 326.1  | 241.8  | 189.8  | 186.0  | 180.0  | 171.0  | 186.0  | 189.8  |
| 3462.2 | 50°   | 1125.2 | 411.2  | 313.3  | 229.7  | 177.7  | 175.5  | 164.9  | 153.6  | 150.6  | 152.9  |
| 3363.5 | 52.5° | 973.8  | 360.8  | 280.9  | 213.1  | 165.7  | 161.2  | 148.4  | 140.1  | 137.8  | 137.8  |
| 3186.5 | 55°   | 801.3  | 302.0  | 237.2  | 189.0  | 152.9  | 144.6  | 135.6  | 131.8  | 129.5  | 128.0  |
| 2938.8 | 57.5° | 651.5  | 247.8  | 190.5  | 168.0  | 140.8  | 130.3  | 127.3  | 122.8  | 119.0  | 116.7  |
| 2731.6 | 60°   | 534.7  | 195.1  | 157.4  | 149.1  | 128.8  | 119.0  | 118.2  | 112.2  | 102.4  | 100.9  |
| 2560.7 | 62.5° | 412.7  | 143.1  | 132.6  | 129.5  | 116.7  | 108.5  | 106.9  | 94.9   | 79.8   | 76.8   |
| 2318.2 | 65°   | 291.5  | 111.5  | 106.9  | 113.7  | 103.9  | 96.4   | 92.6   | 74.6   | 58.7   | 56.5   |
| 1940.1 | 67.5° | 204.9  | 93.4   | 84.4   | 99.4   | 90.4   | 80.6   | 78.3   | 63.3   | 49.0   | 47.4   |
| 1467.1 | 70°   | 146.1  | 76.1   | 69.3   | 85.1   | 72.3   | 70.8   | 66.3   | 52.7   | 39.9   | 38.4   |
| 726.0  | 72.5° | 103.2  | 58.0   | 53.5   | 73.8   | 49.7   | 61.0   | 54.2   | 40.7   | 30.1   | 28.6   |
| 247.0  | 75°   | 76.1   | 41.4   | 37.7   | 42.9   | 36.2   | 45.9   | 38.4   | 27.1   | 18.8   | 18.1   |
| 111.5  | 77.5° | 55.7   | 26.4   | 22.6   | 21.1   | 21.1   | 28.6   | 21.1   | 11.3   | 8.3    | 7.5    |
| 56.5   | 80°   | 39.2   | 12.1   | 10.5   | 9.0    | 8.3    | 6.8    | 3.0    | 1.5    | 0.8    | 0.8    |
| 19.6   | 82.5° | 23.3   | 5.3    | 5.3    | 3.8    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7.5    | 85°   | 5.3    | 2.3    | 2.3    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 3.0    | 87.5° | 0.8    | 0.8    | 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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