

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: P949620

Luminaire Tested: **GLAN-SB4B-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949620  
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-SB4B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA 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: 16732 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

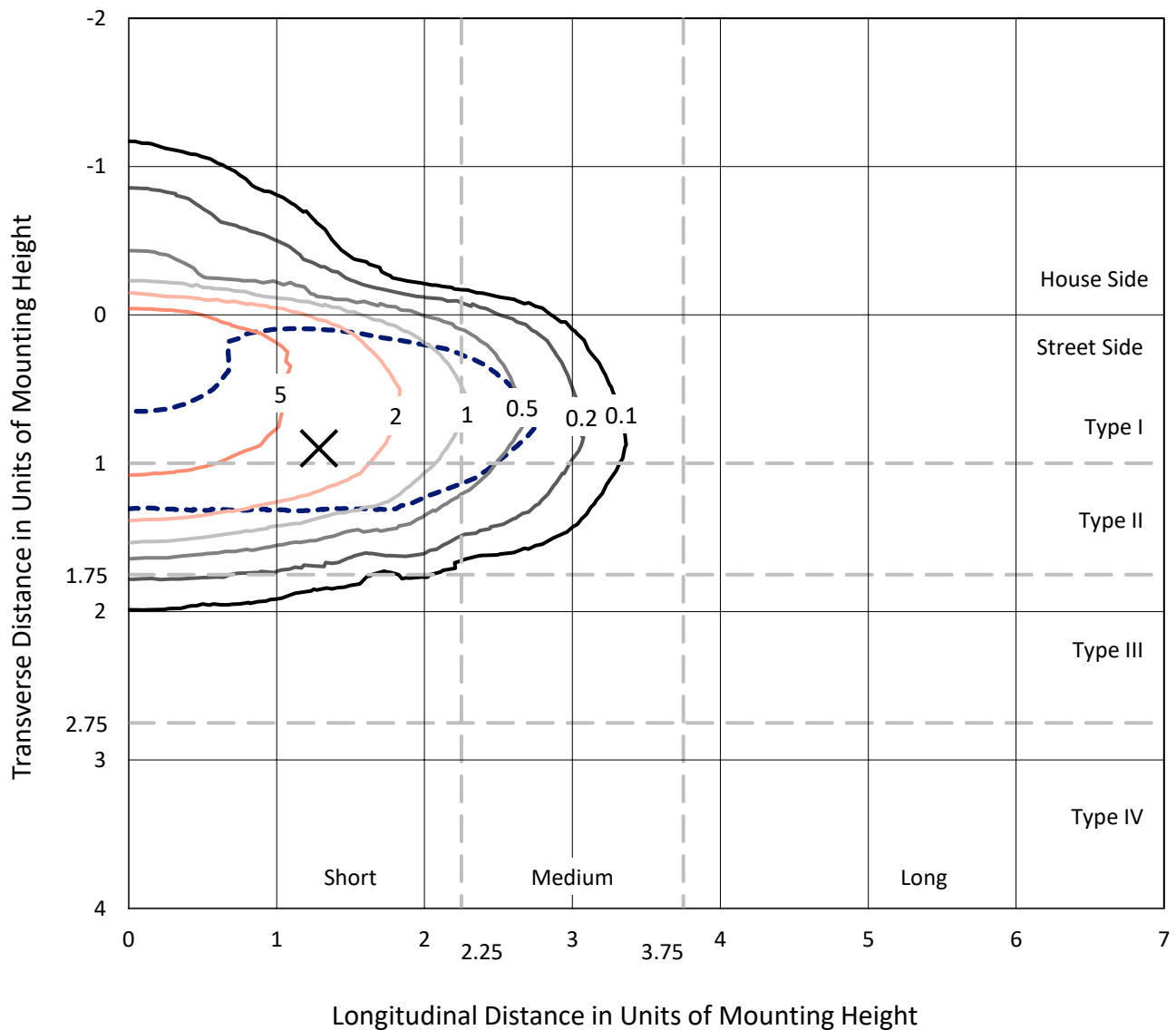
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

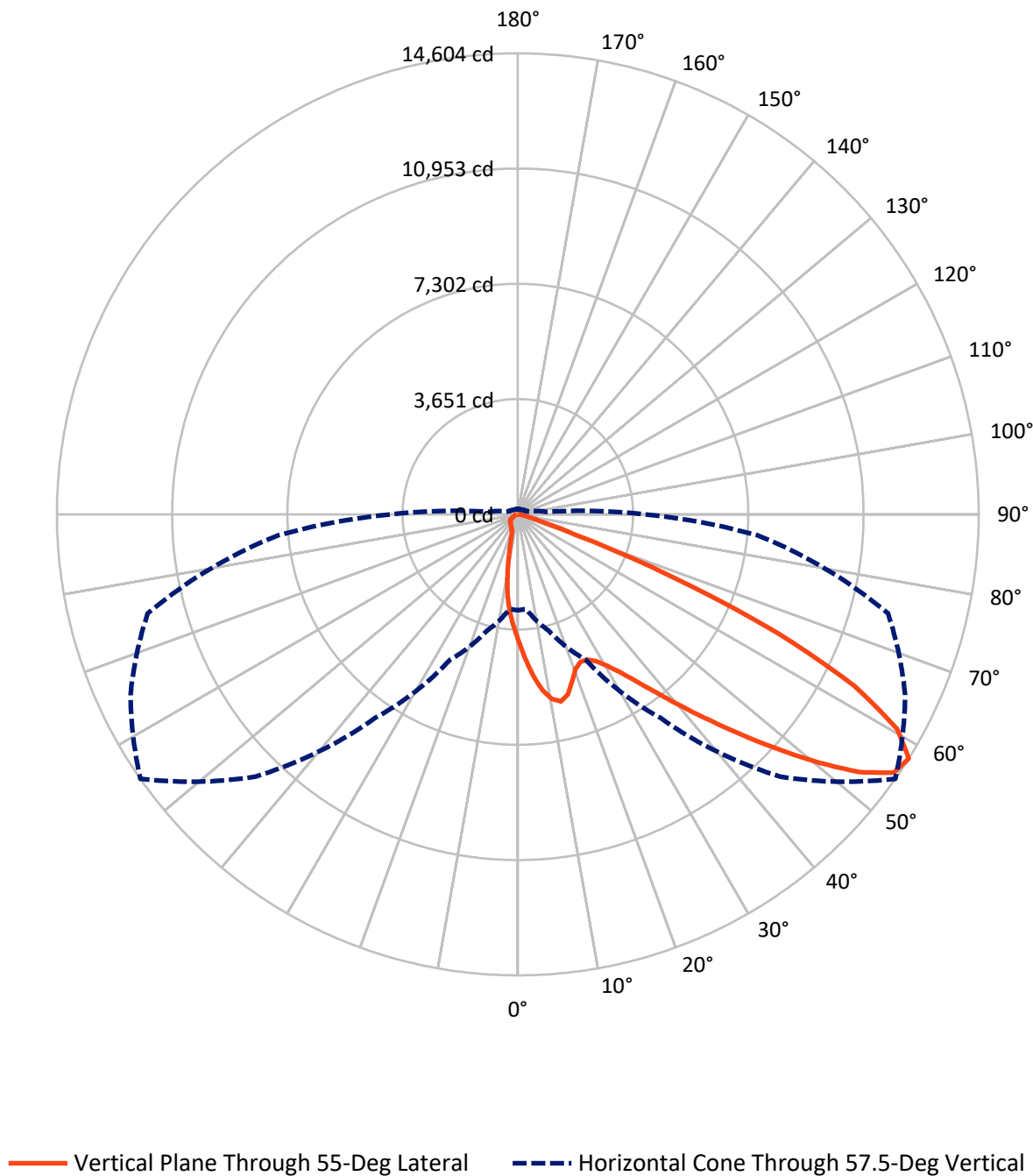
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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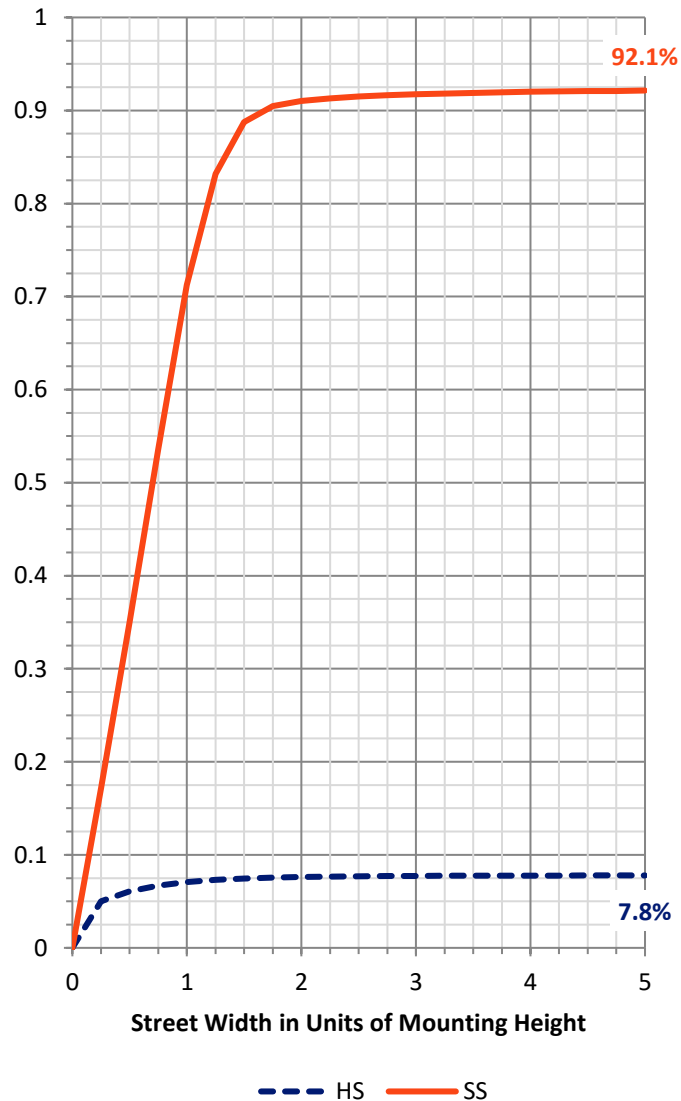
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1306.7   | 0.0    | 1306.7  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 15425.3  | 0.0    | 15425.3 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 16732.0  | 0.0    | 16732.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 375.2   | 2.2       |
| 10°-20°   | 906.2   | 5.4       |
| 20°-30°   | 1449.9  | 8.7       |
| 30°-40°   | 2454.0  | 14.7      |
| 40°-50°   | 4029.0  | 24.1      |
| 50°-60°   | 4428.1  | 26.5      |
| 60°-70°   | 2540.0  | 15.2      |
| 70°-80°   | 519.0   | 3.1       |
| 80°-90°   | 30.6    | 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°    | 16732.0 | 100.0     |
| 0°-180°   | 16732.0 | 100.0     |

**Coefficient of Utilization**



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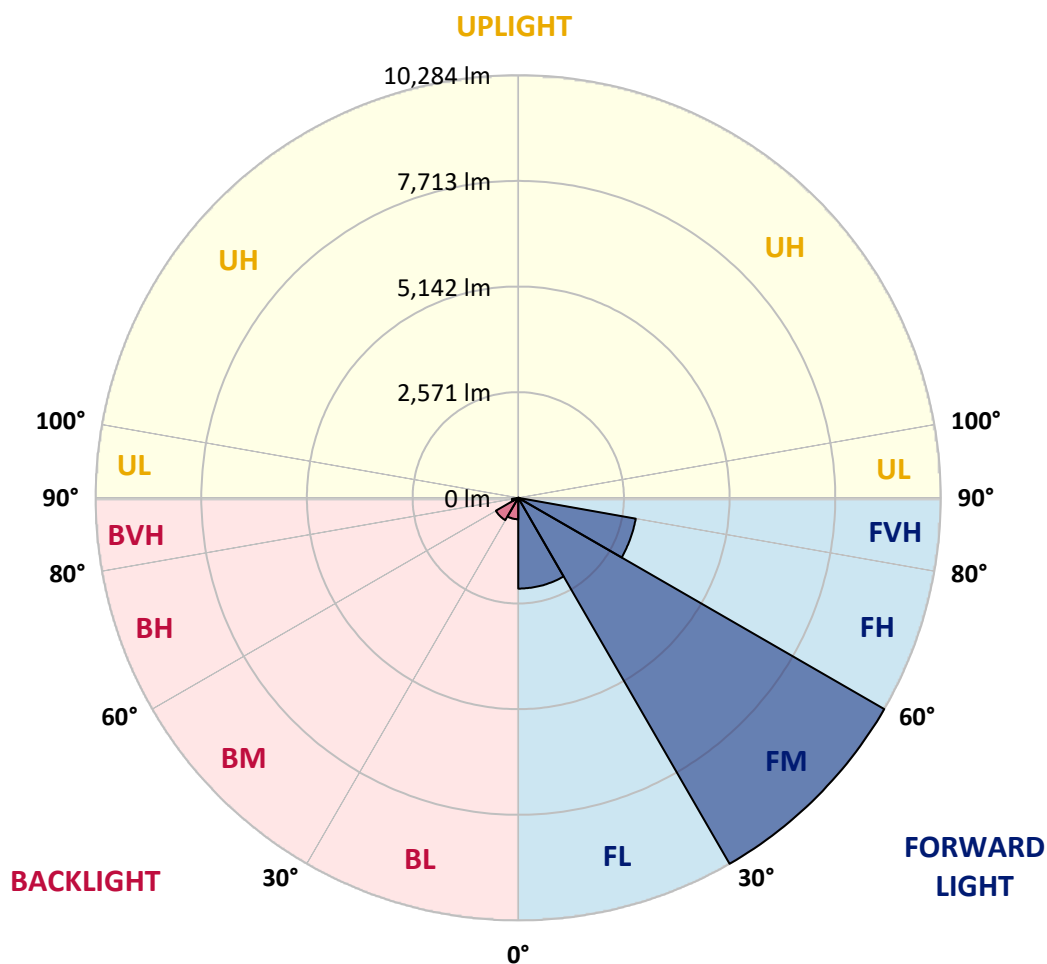
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2209.6  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 10283.6 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 2903.6  | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 28.5    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 521.7   | 3.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 627.6   | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 155.4   | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.1     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4032.0  | 4032.0  | 4032.0  | 4032.0  | 4032.0  | 4032.0  | 4032.0  | 4032.0  | 4032.0  | 4032.0 |
| 2.5°  | 5002.9  | 4939.9  | 4930.6  | 4918.3  | 4798.6  | 4708.8  | 4578.8  | 4436.4  | 4276.5  | 4113.5 |
| 5°    | 5779.7  | 5730.2  | 5720.9  | 5663.2  | 5527.0  | 5374.3  | 5143.2  | 4851.2  | 4553.0  | 4202.2 |
| 7.5°  | 5930.4  | 5921.1  | 5963.4  | 5961.3  | 5942.8  | 5822.1  | 5627.1  | 5279.4  | 4831.6  | 4311.6 |
| 10°   | 5258.7  | 5282.5  | 5408.3  | 5518.7  | 5816.9  | 5990.2  | 5947.9  | 5661.1  | 5118.4  | 4436.4 |
| 12.5° | 4646.9  | 4619.1  | 4708.8  | 4833.7  | 5180.3  | 5696.2  | 6081.0  | 5979.9  | 5446.5  | 4577.8 |
| 15°   | 4263.1  | 4251.8  | 4302.3  | 4360.1  | 4624.2  | 5144.2  | 5926.3  | 6238.9  | 5762.2  | 4744.9 |
| 17.5° | 4140.3  | 4131.0  | 4146.5  | 4161.0  | 4332.2  | 4734.6  | 5557.9  | 6397.8  | 6064.5  | 4935.8 |
| 20°   | 4240.4  | 4228.0  | 4226.0  | 4214.6  | 4285.8  | 4560.2  | 5224.7  | 6409.1  | 6335.9  | 5109.1 |
| 22.5° | 4532.4  | 4517.9  | 4467.4  | 4422.0  | 4428.2  | 4584.0  | 5076.1  | 6295.6  | 6540.1  | 5271.1 |
| 25°   | 5061.7  | 5037.9  | 4932.7  | 4780.0  | 4683.0  | 4749.1  | 5098.8  | 6146.0  | 6735.1  | 5398.0 |
| 27.5° | 5724.0  | 5693.1  | 5557.9  | 5330.9  | 5109.1  | 5028.7  | 5262.9  | 6042.8  | 6897.1  | 5495.0 |
| 30°   | 6373.0  | 6332.8  | 6199.7  | 6023.2  | 5699.3  | 5445.5  | 5559.0  | 6088.2  | 7090.0  | 5596.1 |
| 32.5° | 7073.5  | 7035.4  | 6858.9  | 6640.2  | 6372.0  | 6030.5  | 5964.4  | 6310.1  | 7326.3  | 5737.4 |
| 35°   | 7959.8  | 7900.0  | 7649.2  | 7351.1  | 7066.3  | 6720.7  | 6513.3  | 6692.8  | 7641.0  | 5953.1 |
| 37.5° | 8968.8  | 8888.4  | 8618.0  | 8206.4  | 7835.0  | 7448.1  | 7181.9  | 7219.0  | 8102.2  | 6242.0 |
| 40°   | 9920.1  | 9846.8  | 9597.1  | 9209.2  | 8742.9  | 8273.4  | 7989.7  | 7907.2  | 8738.8  | 6593.8 |
| 42.5° | 10490.6 | 10424.6 | 10319.4 | 10155.3 | 9762.2  | 9283.5  | 8925.5  | 8747.0  | 9491.9  | 7014.7 |
| 45°   | 10522.6 | 10464.8 | 10606.2 | 10797.1 | 10719.7 | 10400.9 | 9964.4  | 9637.4  | 10248.2 | 7409.9 |
| 47.5° | 10010.9 | 9971.7  | 10400.9 | 11067.4 | 11399.6 | 11533.7 | 11131.3 | 10453.5 | 10872.4 | 7693.6 |
| 50°   | 8616.0  | 8601.5  | 9484.7  | 10708.3 | 11658.5 | 12526.2 | 12362.2 | 11212.8 | 11356.2 | 7840.1 |
| 52.5° | 7470.8  | 7418.1  | 7933.0  | 9559.0  | 11282.0 | 13048.3 | 13565.2 | 11957.7 | 11694.7 | 7868.0 |
| 55°   | 5666.3  | 5619.8  | 6265.7  | 7635.8  | 10067.6 | 12862.6 | 14445.2 | 12726.4 | 11937.1 | 7796.8 |
| 57.5° | 3039.5  | 3010.6  | 3826.7  | 5082.3  | 7870.0  | 11748.3 | 14604.1 | 13539.4 | 12141.4 | 7608.0 |
| 60°   | 1183.4  | 1178.2  | 1483.6  | 2465.8  | 4783.1  | 9557.9  | 13802.5 | 14027.4 | 12269.3 | 7375.8 |
| 62.5° | 716.0   | 731.5   | 781.0   | 1107.0  | 2113.0  | 5937.6  | 11954.7 | 13472.3 | 12355.0 | 7163.3 |
| 65°   | 592.2   | 593.2   | 599.4   | 760.4   | 1012.1  | 2484.4  | 8999.8  | 11646.2 | 12143.5 | 6784.7 |
| 67.5° | 507.6   | 516.9   | 540.6   | 603.6   | 714.0   | 1089.5  | 5181.3  | 9021.4  | 10856.9 | 5903.6 |
| 70°   | 400.3   | 412.7   | 442.6   | 496.3   | 550.9   | 682.0   | 1914.9  | 6002.6  | 8294.1  | 4449.9 |
| 72.5° | 337.4   | 336.3   | 351.8   | 403.4   | 437.5   | 479.8   | 736.7   | 3363.4  | 4820.2  | 2124.3 |
| 75°   | 261.0   | 271.3   | 290.9   | 337.4   | 358.0   | 347.7   | 399.3   | 1228.8  | 1727.1  | 643.8  |
| 77.5° | 204.3   | 212.5   | 230.1   | 275.5   | 296.1   | 246.6   | 230.1   | 439.5   | 555.1   | 231.1  |
| 80°   | 91.8    | 99.0    | 156.8   | 203.3   | 241.4   | 170.2   | 124.8   | 224.9   | 246.6   | 105.2  |
| 82.5° | 16.5    | 27.9    | 91.8    | 107.3   | 123.8   | 110.4   | 65.0    | 116.6   | 120.7   | 42.3   |
| 85°   | 1.0     | 2.1     | 32.0    | 39.2    | 49.5    | 36.1    | 19.6    | 46.4    | 40.2    | 14.4   |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.0     | 1.0     | 5.2     | 6.2     | 8.3     | 6.2     | 5.2    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4032.0 | 0°    | 4032.0 | 4032.0 | 4032.0 | 4032.0 | 4032.0 | 4032.0 | 4032.0 | 4032.0 | 4032.0 | 4032.0 |
| 4041.3 | 2.5°  | 3967.0 | 3820.5 | 3678.1 | 3561.5 | 3493.4 | 3377.9 | 3301.5 | 3289.2 | 3257.2 | 3285.0 |
| 4051.6 | 5°    | 3890.7 | 3628.6 | 3363.4 | 3126.1 | 2931.1 | 2679.4 | 2491.6 | 2412.2 | 2343.1 | 2366.8 |
| 4078.4 | 7.5°  | 3854.5 | 3440.8 | 3028.1 | 2622.7 | 2205.8 | 1803.5 | 1504.3 | 1379.4 | 1284.5 | 1297.9 |
| 4108.3 | 10°   | 3806.1 | 3245.8 | 2598.9 | 1979.9 | 1421.7 | 1024.5 | 818.2  | 741.8  | 699.5  | 700.5  |
| 4152.7 | 12.5° | 3768.9 | 3012.7 | 2100.6 | 1342.3 | 865.6  | 654.1  | 590.1  | 571.6  | 559.2  | 560.2  |
| 4219.8 | 15°   | 3750.3 | 2738.2 | 1608.5 | 894.5  | 619.0  | 554.0  | 538.6  | 530.3  | 522.1  | 521.0  |
| 4294.1 | 17.5° | 3719.4 | 2432.8 | 1177.2 | 653.1  | 541.7  | 519.0  | 505.5  | 496.3  | 485.9  | 483.9  |
| 4358.0 | 20°   | 3673.0 | 2086.2 | 860.5  | 552.0  | 507.6  | 490.1  | 471.5  | 459.1  | 446.7  | 444.7  |
| 4398.3 | 22.5° | 3587.3 | 1719.9 | 661.3  | 510.7  | 482.8  | 463.2  | 440.5  | 426.1  | 413.7  | 411.7  |
| 4378.7 | 25°   | 3428.4 | 1376.3 | 557.1  | 484.9  | 461.2  | 437.5  | 412.7  | 393.1  | 381.7  | 379.7  |
| 4336.4 | 27.5° | 3227.3 | 1081.3 | 505.5  | 461.2  | 433.3  | 411.7  | 383.8  | 365.2  | 354.9  | 352.9  |
| 4280.6 | 30°   | 2990.0 | 832.6  | 475.6  | 434.4  | 400.3  | 381.7  | 357.0  | 341.5  | 335.3  | 335.3  |
| 4241.4 | 32.5° | 2734.1 | 665.5  | 463.2  | 407.5  | 371.4  | 350.8  | 331.2  | 325.0  | 322.9  | 321.9  |
| 4263.1 | 35°   | 2493.7 | 577.8  | 457.1  | 385.9  | 345.6  | 326.0  | 317.8  | 318.8  | 322.9  | 322.9  |
| 4330.2 | 37.5° | 2280.1 | 549.9  | 454.0  | 370.4  | 322.9  | 305.4  | 310.6  | 319.8  | 315.7  | 315.7  |
| 4447.8 | 40°   | 2087.2 | 553.0  | 451.9  | 359.0  | 304.4  | 294.0  | 304.4  | 297.1  | 286.8  | 285.8  |
| 4591.2 | 42.5° | 1939.7 | 578.8  | 447.8  | 349.8  | 293.0  | 285.8  | 281.7  | 270.3  | 269.3  | 271.3  |
| 4739.8 | 45°   | 1832.4 | 601.5  | 446.7  | 345.6  | 280.6  | 267.2  | 262.1  | 250.7  | 271.3  | 276.5  |
| 4800.6 | 47.5° | 1705.4 | 601.5  | 446.7  | 331.2  | 260.0  | 254.8  | 246.6  | 234.2  | 254.8  | 260.0  |
| 4742.9 | 50°   | 1541.4 | 563.3  | 429.2  | 314.7  | 243.5  | 240.4  | 225.9  | 210.5  | 206.3  | 209.4  |
| 4607.7 | 52.5° | 1334.0 | 494.2  | 384.8  | 292.0  | 227.0  | 220.8  | 203.3  | 191.9  | 188.8  | 188.8  |
| 4365.2 | 55°   | 1097.8 | 413.7  | 325.0  | 259.0  | 209.4  | 198.1  | 185.7  | 180.6  | 177.5  | 175.4  |
| 4025.8 | 57.5° | 892.4  | 339.4  | 261.0  | 230.1  | 192.9  | 178.5  | 174.4  | 168.2  | 163.0  | 159.9  |
| 3742.1 | 60°   | 732.5  | 267.2  | 215.6  | 204.3  | 176.4  | 163.0  | 162.0  | 153.7  | 140.3  | 138.3  |
| 3507.9 | 62.5° | 565.4  | 196.0  | 181.6  | 177.5  | 159.9  | 148.6  | 146.5  | 130.0  | 109.4  | 105.2  |
| 3175.7 | 65°   | 399.3  | 152.7  | 146.5  | 155.8  | 142.4  | 132.1  | 126.9  | 102.1  | 80.5   | 77.4   |
| 2657.7 | 67.5° | 280.6  | 127.9  | 115.6  | 136.2  | 123.8  | 110.4  | 107.3  | 86.7   | 67.1   | 65.0   |
| 2009.8 | 70°   | 200.2  | 104.2  | 94.9   | 116.6  | 99.0   | 97.0   | 90.8   | 72.2   | 54.7   | 52.6   |
| 994.6  | 72.5° | 141.3  | 79.4   | 73.3   | 101.1  | 68.1   | 83.6   | 74.3   | 55.7   | 41.3   | 39.2   |
| 338.4  | 75°   | 104.2  | 56.7   | 51.6   | 58.8   | 49.5   | 62.9   | 52.6   | 37.1   | 25.8   | 24.8   |
| 152.7  | 77.5° | 76.3   | 36.1   | 31.0   | 28.9   | 28.9   | 39.2   | 28.9   | 15.5   | 11.3   | 10.3   |
| 77.4   | 80°   | 53.6   | 16.5   | 14.4   | 12.4   | 11.3   | 9.3    | 4.1    | 2.1    | 1.0    | 1.0    |
| 26.8   | 82.5° | 32.0   | 7.2    | 7.2    | 5.2    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 10.3   | 85°   | 7.2    | 3.1    | 3.1    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 4.1    | 87.5° | 1.0    | 1.0    | 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    |

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