

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: P955055

Luminaire Tested: **GLAN-SB8A-840-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8A-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26726 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

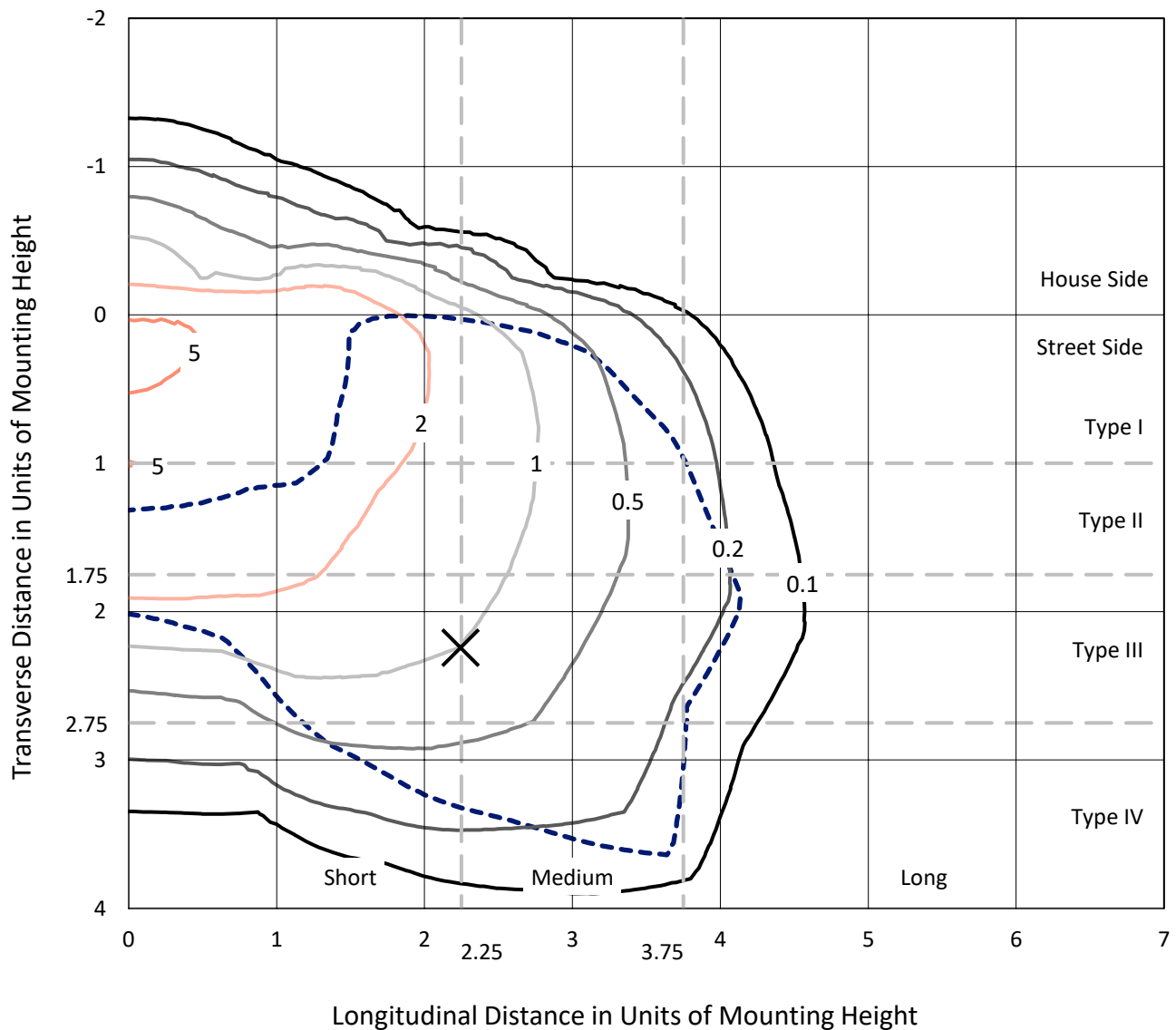
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

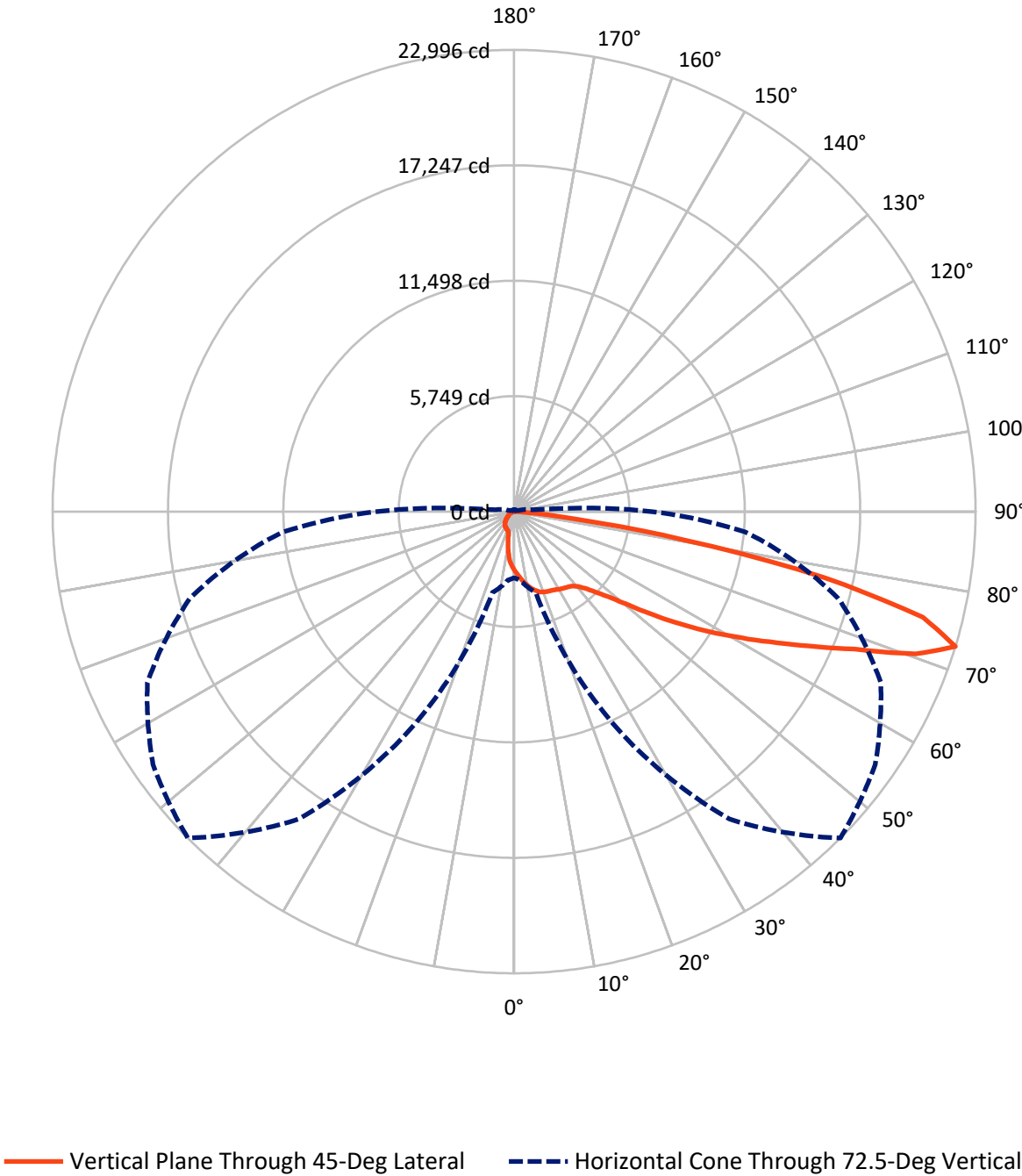
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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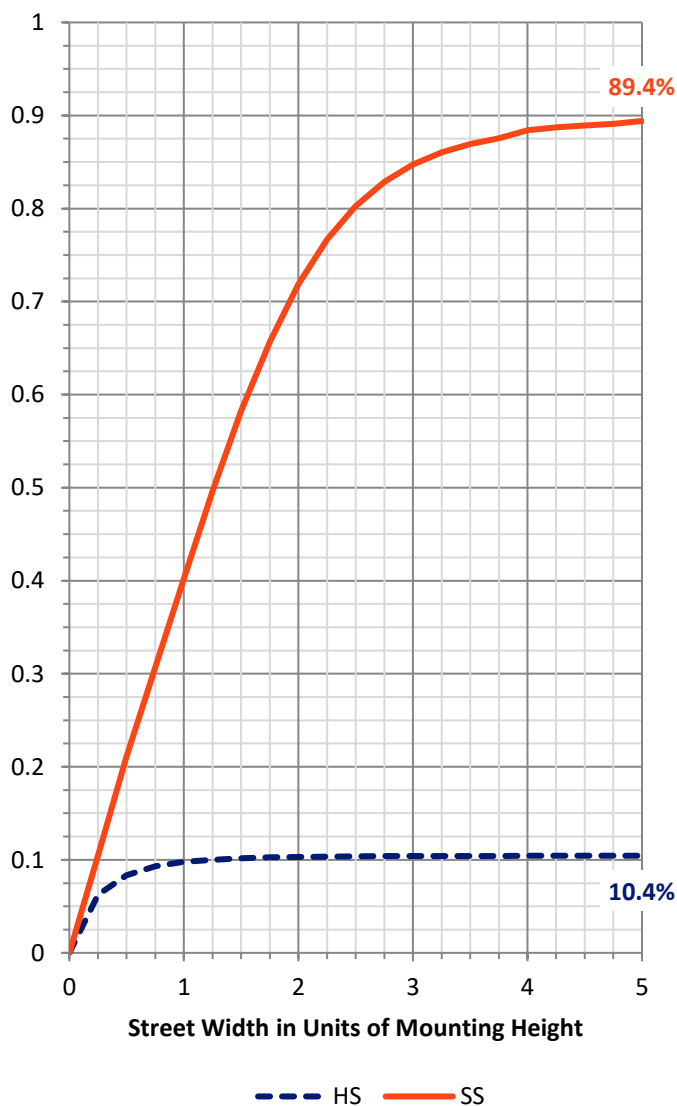
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2808.2   | 0.0    | 2808.2  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 23917.9  | 0.0    | 23917.9 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 26726.0  | 0.0    | 26726.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 275.9   | 1.0       |
| 10°-20°   | 806.2   | 3.0       |
| 20°-30°   | 1324.0  | 5.0       |
| 30°-40°   | 1877.7  | 7.0       |
| 40°-50°   | 3103.7  | 11.6      |
| 50°-60°   | 5575.4  | 20.9      |
| 60°-70°   | 7741.7  | 29.0      |
| 70°-80°   | 5615.6  | 21.0      |
| 80°-90°   | 406.0   | 1.5       |
| 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°    | 26726.0 | 100.0     |
| 0°-180°   | 26726.0 | 100.0     |

**Coefficient of Utilization**



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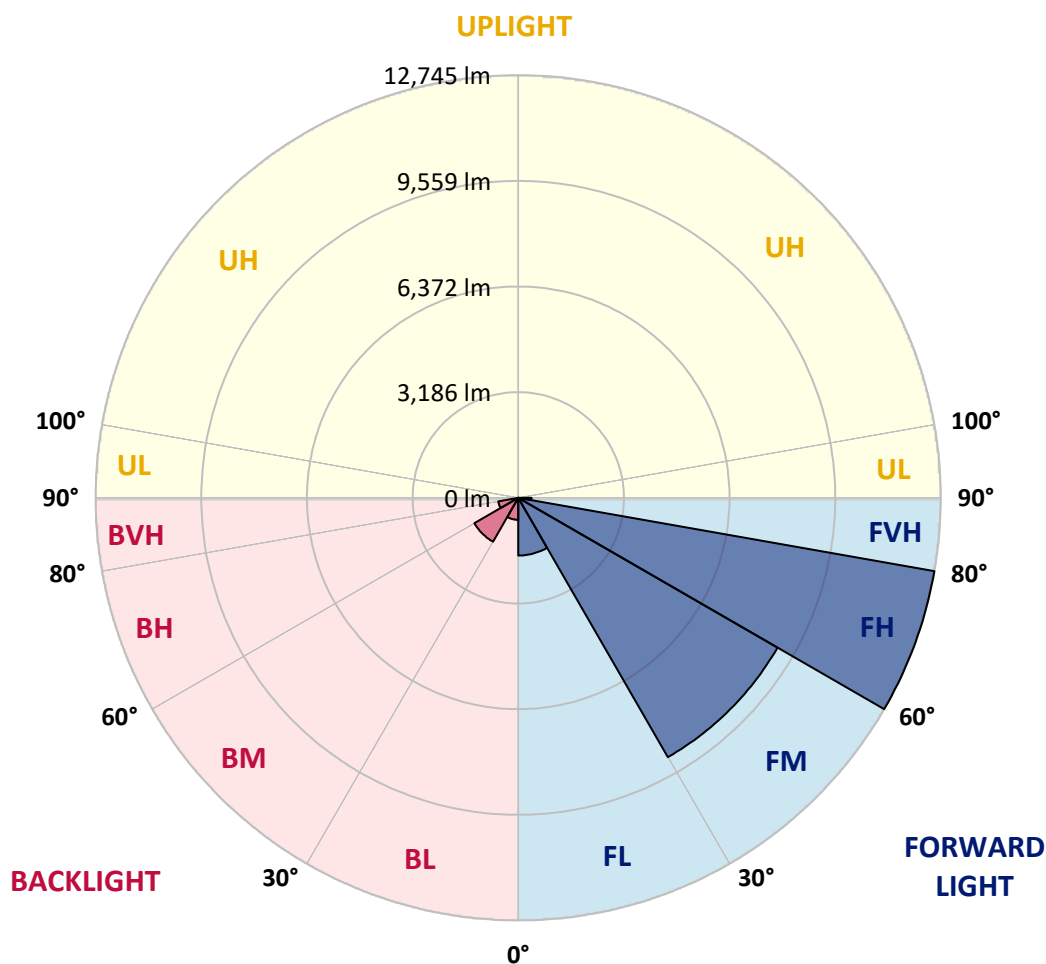
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1740.9  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 9029.5  | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 12744.9 | 47.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 402.6   | 1.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 665.1   | 2.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1527.2  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 612.4   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 3.4     | 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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2927.9  | 2927.9  | 2927.9  | 2927.9  | 2927.9  | 2927.9  | 2927.9  | 2927.9  | 2927.9  | 2927.9  |
| 2.5°  | 3197.9  | 3203.3  | 3199.7  | 3177.8  | 3141.3  | 3121.3  | 3110.3  | 3073.8  | 3050.1  | 3008.2  |
| 5°    | 3491.6  | 3513.5  | 3500.7  | 3456.9  | 3387.6  | 3338.3  | 3323.7  | 3249.0  | 3181.5  | 3103.0  |
| 7.5°  | 3803.5  | 3814.5  | 3790.8  | 3734.2  | 3641.2  | 3557.2  | 3544.5  | 3440.5  | 3332.9  | 3212.5  |
| 10°   | 4073.5  | 4086.3  | 4049.8  | 3967.7  | 3861.9  | 3757.9  | 3739.7  | 3624.7  | 3497.1  | 3349.3  |
| 12.5° | 4299.7  | 4312.5  | 4265.1  | 4166.5  | 4049.8  | 3942.2  | 3923.9  | 3803.5  | 3663.1  | 3498.9  |
| 15°   | 4471.2  | 4494.9  | 4431.1  | 4325.3  | 4199.4  | 4091.7  | 4082.6  | 3964.1  | 3827.2  | 3644.8  |
| 17.5° | 4571.5  | 4595.2  | 4535.0  | 4407.3  | 4299.7  | 4208.5  | 4197.6  | 4099.0  | 3971.4  | 3796.2  |
| 20°   | 4587.9  | 4609.8  | 4546.0  | 4434.7  | 4345.3  | 4272.3  | 4266.9  | 4195.7  | 4102.7  | 3934.9  |
| 22.5° | 4538.7  | 4566.0  | 4507.7  | 4418.3  | 4356.3  | 4318.0  | 4310.7  | 4270.5  | 4217.6  | 4075.3  |
| 25°   | 4487.6  | 4509.5  | 4465.7  | 4387.3  | 4354.4  | 4350.8  | 4356.3  | 4349.0  | 4338.0  | 4217.6  |
| 27.5° | 4484.0  | 4507.7  | 4458.4  | 4383.6  | 4365.4  | 4403.7  | 4409.2  | 4443.8  | 4452.9  | 4347.1  |
| 30°   | 4515.0  | 4531.4  | 4484.0  | 4405.5  | 4396.4  | 4484.0  | 4485.8  | 4547.8  | 4562.4  | 4456.6  |
| 32.5° | 4582.5  | 4600.7  | 4553.3  | 4438.4  | 4425.6  | 4547.8  | 4553.3  | 4635.4  | 4659.1  | 4573.3  |
| 35°   | 4741.2  | 4763.1  | 4708.3  | 4529.6  | 4484.0  | 4608.0  | 4624.4  | 4721.1  | 4768.5  | 4697.4  |
| 37.5° | 5137.0  | 5073.2  | 4998.4  | 4713.8  | 4617.1  | 4702.9  | 4730.2  | 4843.3  | 4927.2  | 4845.2  |
| 40°   | 6120.3  | 5919.6  | 5686.1  | 5027.6  | 4850.6  | 4905.4  | 4927.2  | 5040.3  | 5155.3  | 5075.0  |
| 42.5° | 7596.1  | 7358.9  | 6983.2  | 5750.0  | 5202.7  | 5230.1  | 5246.5  | 5345.0  | 5507.4  | 5443.5  |
| 45°   | 8911.4  | 8825.6  | 8442.5  | 6983.2  | 5861.3  | 5726.3  | 5746.3  | 5797.4  | 6036.4  | 6012.7  |
| 47.5° | 9922.0  | 9872.7  | 9577.2  | 8398.8  | 6974.0  | 6333.7  | 6390.3  | 6414.0  | 6758.8  | 6842.7  |
| 50°   | 10699.1 | 10680.9 | 10416.4 | 9657.5  | 8427.9  | 7229.4  | 7249.5  | 7198.4  | 7714.7  | 7922.6  |
| 52.5° | 11432.5 | 11494.5 | 11299.3 | 10826.8 | 9980.4  | 8402.4  | 8398.8  | 8158.0  | 8854.8  | 9168.6  |
| 55°   | 12094.6 | 12116.5 | 12136.6 | 12019.9 | 11541.9 | 9737.7  | 9703.1  | 9309.0  | 10177.4 | 10502.1 |
| 57.5° | 12716.7 | 12725.8 | 12904.6 | 13143.6 | 13167.3 | 11171.6 | 11107.7 | 10635.3 | 11622.2 | 11853.9 |
| 60°   | 13134.5 | 13176.4 | 13554.0 | 14218.1 | 14508.1 | 12651.0 | 12616.4 | 12134.8 | 13092.5 | 13200.1 |
| 62.5° | 12532.5 | 12787.9 | 13740.1 | 15057.2 | 15774.1 | 14291.0 | 14274.6 | 13822.2 | 14639.5 | 14551.9 |
| 65°   | 10144.5 | 10576.9 | 12251.5 | 15624.5 | 17016.4 | 16122.6 | 16146.3 | 15664.7 | 16228.4 | 15943.8 |
| 67.5° | 7096.3  | 7552.3  | 9533.4  | 15670.1 | 18404.7 | 18273.3 | 18410.1 | 17654.9 | 17915.8 | 17277.3 |
| 70°   | 4907.2  | 5142.5  | 6432.2  | 14688.7 | 19486.4 | 21235.9 | 21232.2 | 20099.4 | 19594.1 | 17884.8 |
| 72.5° | 3300.0  | 3422.3  | 4177.5  | 11653.2 | 18691.1 | 22996.3 | 22890.4 | 21967.4 | 20159.6 | 16726.4 |
| 75°   | 1391.9  | 1481.3  | 1933.7  | 6549.0  | 14787.2 | 21038.9 | 20752.4 | 19413.5 | 17912.1 | 13170.9 |
| 77.5° | 441.5   | 479.8   | 762.5   | 2344.1  | 8145.2  | 15814.3 | 15511.4 | 12123.8 | 12005.3 | 6607.4  |
| 80°   | 209.8   | 244.4   | 428.7   | 941.3   | 3205.2  | 8601.2  | 8559.3  | 5500.1  | 5164.4  | 1784.1  |
| 82.5° | 91.2    | 107.6   | 237.1   | 503.5   | 1433.8  | 3068.4  | 3130.4  | 1871.7  | 1548.8  | 676.8   |
| 85°   | 29.2    | 38.3    | 109.5   | 231.7   | 605.6   | 762.5   | 753.4   | 445.1   | 623.9   | 368.5   |
| 87.5° | 0.0     | 0.0     | 36.5    | 52.9    | 62.0    | 43.8    | 49.3    | 38.3    | 173.3   | 102.2   |
| 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):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2927.9  | 0°    | 2927.9  | 2927.9 | 2927.9 | 2927.9 | 2927.9 | 2927.9 | 2927.9 | 2927.9 | 2927.9 | 2927.9 |
| 2964.4  | 2.5°  | 2942.5  | 2913.3 | 2862.2 | 2814.8 | 2772.8 | 2730.9 | 2705.3 | 2668.8 | 2665.2 | 2665.2 |
| 3011.8  | 5°    | 2962.6  | 2915.1 | 2823.9 | 2727.2 | 2615.9 | 2510.1 | 2404.3 | 2302.2 | 2269.3 | 2245.6 |
| 3088.4  | 7.5°  | 3020.9  | 2946.1 | 2802.0 | 2617.8 | 2406.2 | 2174.5 | 2012.1 | 1837.0 | 1769.5 | 1733.0 |
| 3190.6  | 10°   | 3104.8  | 3002.7 | 2783.8 | 2460.9 | 2117.9 | 1802.3 | 1570.7 | 1380.9 | 1308.0 | 1277.0 |
| 3301.9  | 12.5° | 3197.9  | 3072.0 | 2750.9 | 2265.7 | 1802.3 | 1424.7 | 1198.5 | 1111.0 | 1100.0 | 1100.0 |
| 3435.0  | 15°   | 3309.2  | 3155.9 | 2694.4 | 2035.8 | 1472.2 | 1127.4 | 1047.1 | 1050.8 | 1061.7 | 1069.0 |
| 3564.5  | 17.5° | 3424.1  | 3245.3 | 2605.0 | 1778.6 | 1180.3 | 1014.3 | 1016.1 | 1021.6 | 1030.7 | 1038.0 |
| 3705.0  | 20°   | 3548.1  | 3334.7 | 2486.4 | 1505.0 | 1012.4 | 981.4  | 986.9  | 992.4  | 999.7  | 1003.3 |
| 3836.4  | 22.5° | 3681.3  | 3418.6 | 2346.0 | 1236.8 | 955.9  | 954.1  | 955.9  | 961.4  | 970.5  | 970.5  |
| 3989.6  | 25°   | 3823.6  | 3511.6 | 2185.4 | 1041.6 | 926.7  | 926.7  | 930.4  | 934.0  | 941.3  | 941.3  |
| 4137.4  | 27.5° | 3969.5  | 3597.4 | 2015.8 | 939.5  | 901.2  | 899.3  | 899.3  | 904.8  | 908.5  | 910.3  |
| 4283.3  | 30°   | 4130.1  | 3697.7 | 1846.1 | 917.6  | 881.1  | 872.0  | 866.5  | 870.2  | 873.8  | 875.6  |
| 4436.5  | 32.5° | 4294.2  | 3794.4 | 1694.7 | 926.7  | 861.0  | 844.6  | 826.4  | 822.7  | 822.7  | 830.0  |
| 4595.2  | 35°   | 4476.7  | 3900.2 | 1578.0 | 957.7  | 850.1  | 804.5  | 775.3  | 758.9  | 760.7  | 771.6  |
| 4785.0  | 37.5° | 4695.6  | 4027.9 | 1492.2 | 985.1  | 842.8  | 758.9  | 711.4  | 691.4  | 678.6  | 691.4  |
| 5045.8  | 40°   | 4982.0  | 4215.8 | 1430.2 | 1007.0 | 833.7  | 706.0  | 642.1  | 609.3  | 585.6  | 592.9  |
| 5450.8  | 42.5° | 5403.4  | 4511.3 | 1406.5 | 1008.8 | 813.6  | 644.0  | 571.0  | 527.2  | 492.5  | 494.4  |
| 6060.1  | 45°   | 5994.4  | 4978.3 | 1528.7 | 985.1  | 769.8  | 576.5  | 496.2  | 437.8  | 415.9  | 410.5  |
| 6970.4  | 47.5° | 6804.4  | 5658.8 | 1811.5 | 935.8  | 706.0  | 510.8  | 423.2  | 374.0  | 357.5  | 348.4  |
| 8165.3  | 50°   | 7889.8  | 6532.6 | 2125.2 | 881.1  | 642.1  | 448.8  | 363.0  | 332.0  | 321.1  | 311.9  |
| 9582.7  | 52.5° | 9148.5  | 7419.1 | 2382.4 | 826.4  | 578.3  | 394.0  | 324.7  | 306.5  | 297.3  | 290.1  |
| 10950.9 | 55°   | 10303.3 | 8030.3 | 2367.9 | 768.0  | 516.3  | 350.3  | 297.3  | 286.4  | 275.5  | 268.2  |
| 12129.3 | 57.5° | 11022.0 | 8116.0 | 1951.9 | 704.2  | 445.1  | 315.6  | 271.8  | 264.5  | 251.7  | 242.6  |
| 13149.1 | 60°   | 11352.2 | 7627.1 | 1368.2 | 620.2  | 374.0  | 282.8  | 244.4  | 240.8  | 224.4  | 211.6  |
| 14114.1 | 62.5° | 11412.4 | 6718.6 | 912.1  | 516.3  | 311.9  | 251.7  | 217.1  | 211.6  | 189.7  | 167.8  |
| 14898.5 | 65°   | 11167.9 | 5419.8 | 631.2  | 403.2  | 266.3  | 218.9  | 186.1  | 175.1  | 151.4  | 129.5  |
| 15084.6 | 67.5° | 10394.5 | 3805.3 | 439.6  | 290.1  | 226.2  | 173.3  | 147.8  | 144.1  | 125.9  | 107.6  |
| 14136.0 | 70°   | 8977.0  | 2169.0 | 293.7  | 217.1  | 178.8  | 118.6  | 116.8  | 120.4  | 102.2  | 87.6   |
| 11549.2 | 72.5° | 6882.8  | 992.4  | 182.4  | 158.7  | 122.2  | 80.3   | 93.0   | 94.9   | 78.4   | 65.7   |
| 7205.7  | 75°   | 4051.6  | 425.0  | 114.9  | 102.2  | 62.0   | 52.9   | 67.5   | 69.3   | 52.9   | 42.0   |
| 2634.2  | 77.5° | 1379.1  | 160.5  | 73.0   | 60.2   | 31.0   | 29.2   | 43.8   | 43.8   | 29.2   | 16.4   |
| 529.0   | 80°   | 313.8   | 60.2   | 36.5   | 23.7   | 14.6   | 12.8   | 14.6   | 12.8   | 7.3    | 1.8    |
| 162.4   | 82.5° | 89.4    | 23.7   | 14.6   | 9.1    | 5.5    | 5.5    | 1.8    | 0.0    | 0.0    | 0.0    |
| 56.6    | 85°   | 25.5    | 10.9   | 3.6    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20.1    | 87.5° | 10.9    | 1.8    | 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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| 180°   |
|--------|
| 2927.9 |
| 2674.3 |
| 2256.6 |
| 1738.5 |
| 1277.0 |
| 1100.0 |
| 1069.0 |
| 1038.0 |
| 1005.2 |
| 974.1  |
| 943.1  |
| 912.1  |
| 879.3  |
| 835.5  |
| 777.1  |
| 687.7  |
| 589.2  |
| 487.1  |
| 403.2  |
| 343.0  |
| 310.1  |
| 288.2  |
| 264.5  |
| 240.8  |
| 208.0  |
| 156.9  |
| 122.2  |
| 102.2  |
| 80.3   |
| 58.4   |
| 36.5   |
| 12.8   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |