

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: P950518

Luminaire Tested: **GLAN-SB4D-940-U-T3R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4D-940-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 30339 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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



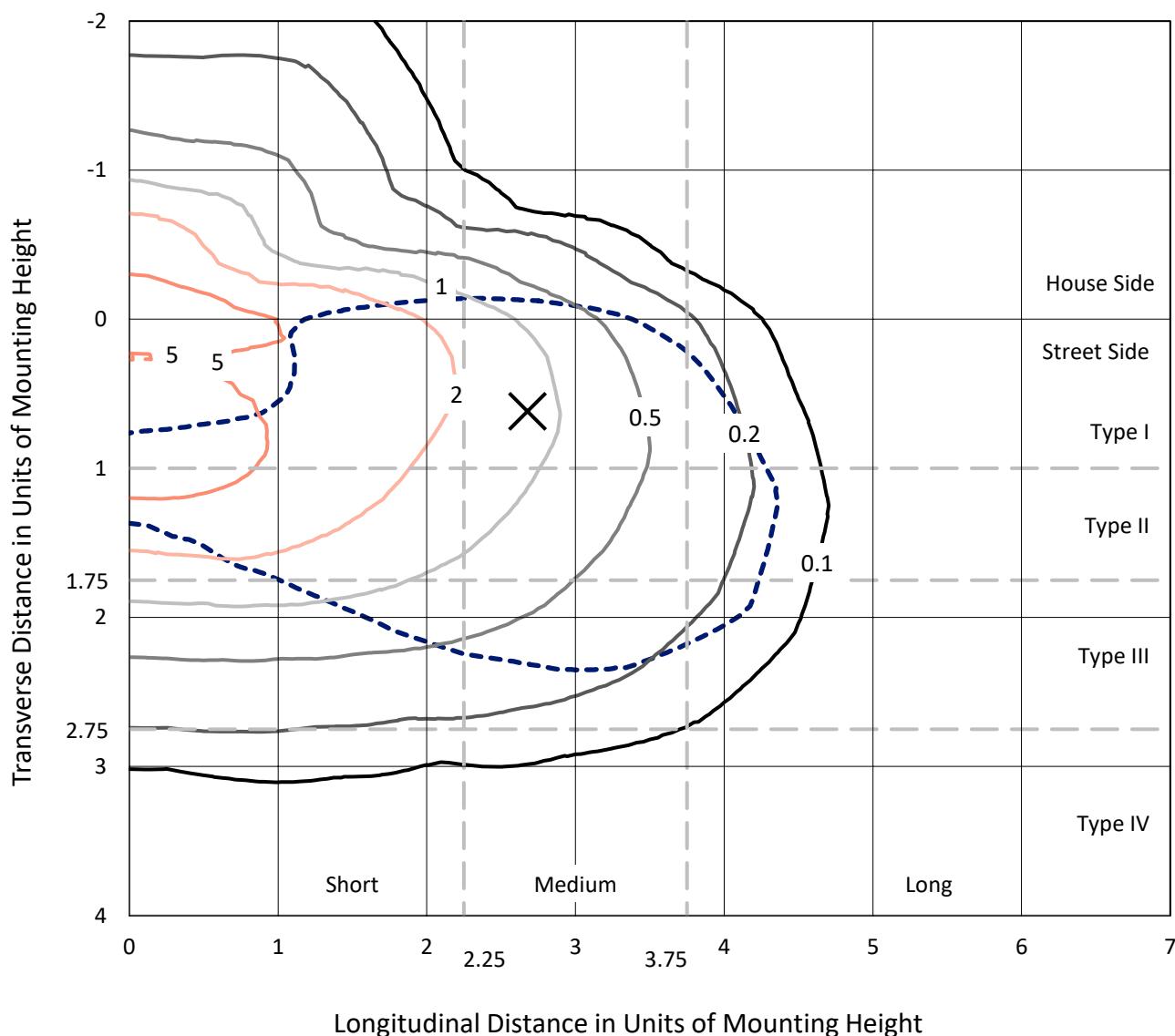
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

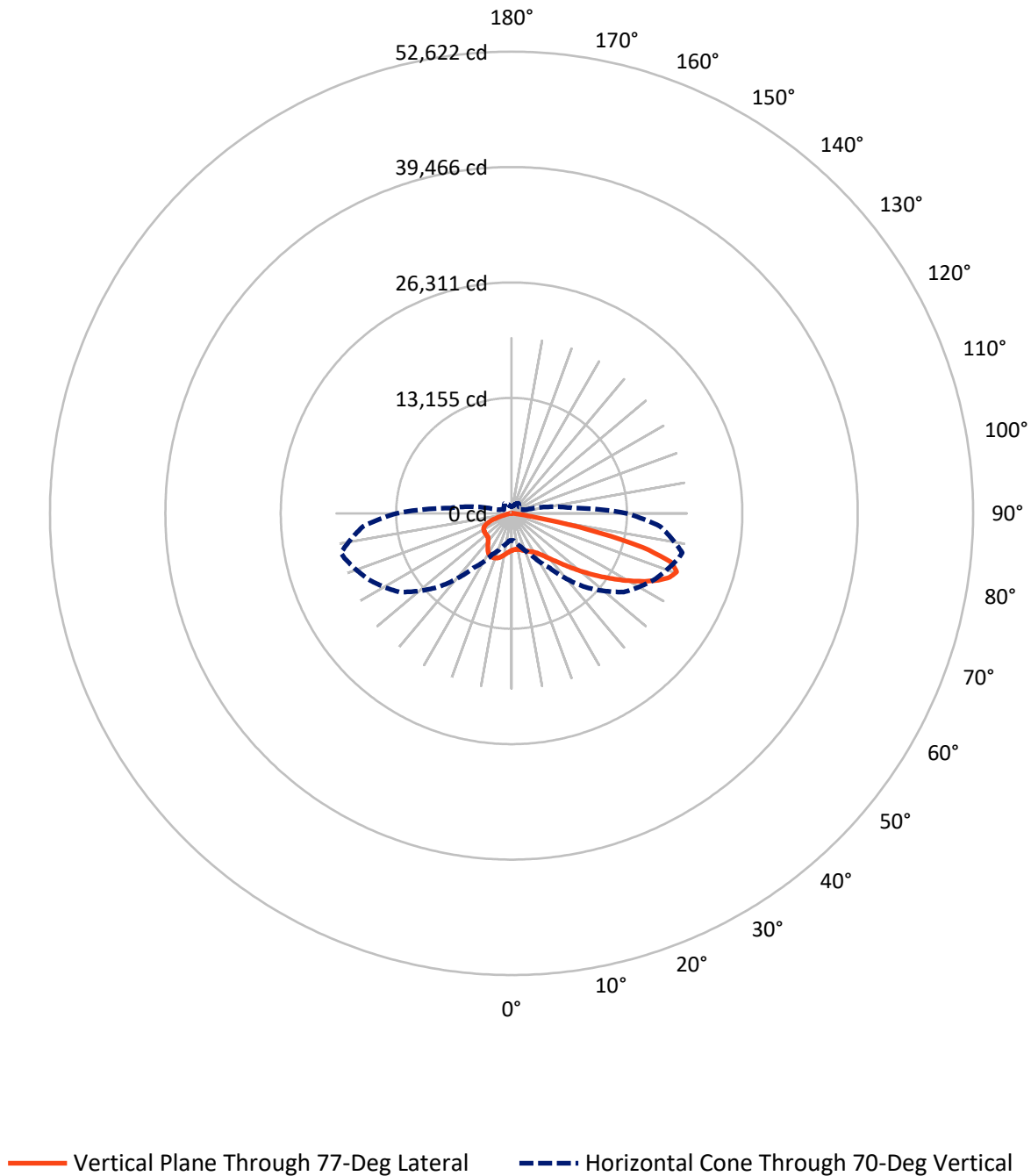
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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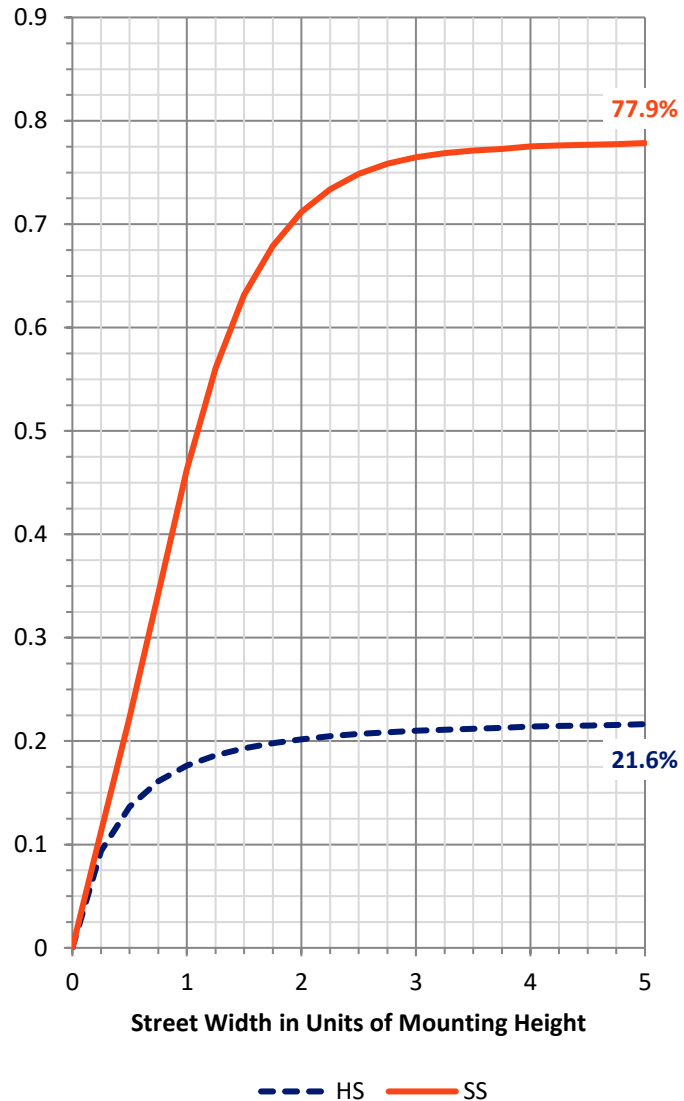
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6643.8   | 0.0    | 6643.8  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 23695.2  | 0.0    | 23695.2 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 30339.0  | 0.0    | 30339.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 403.7   | 1.3       |
| 10°-20°   | 1165.0  | 3.8       |
| 20°-30°   | 1992.4  | 6.6       |
| 30°-40°   | 3204.0  | 10.6      |
| 40°-50°   | 5002.2  | 16.5      |
| 50°-60°   | 6681.8  | 22.0      |
| 60°-70°   | 7121.7  | 23.5      |
| 70°-80°   | 4384.1  | 14.5      |
| 80°-90°   | 384.2   | 1.3       |
| 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°    | 30339.0 | 100.0     |
| 0°-180°   | 30339.0 | 100.0     |

**Coefficient of Utilization**



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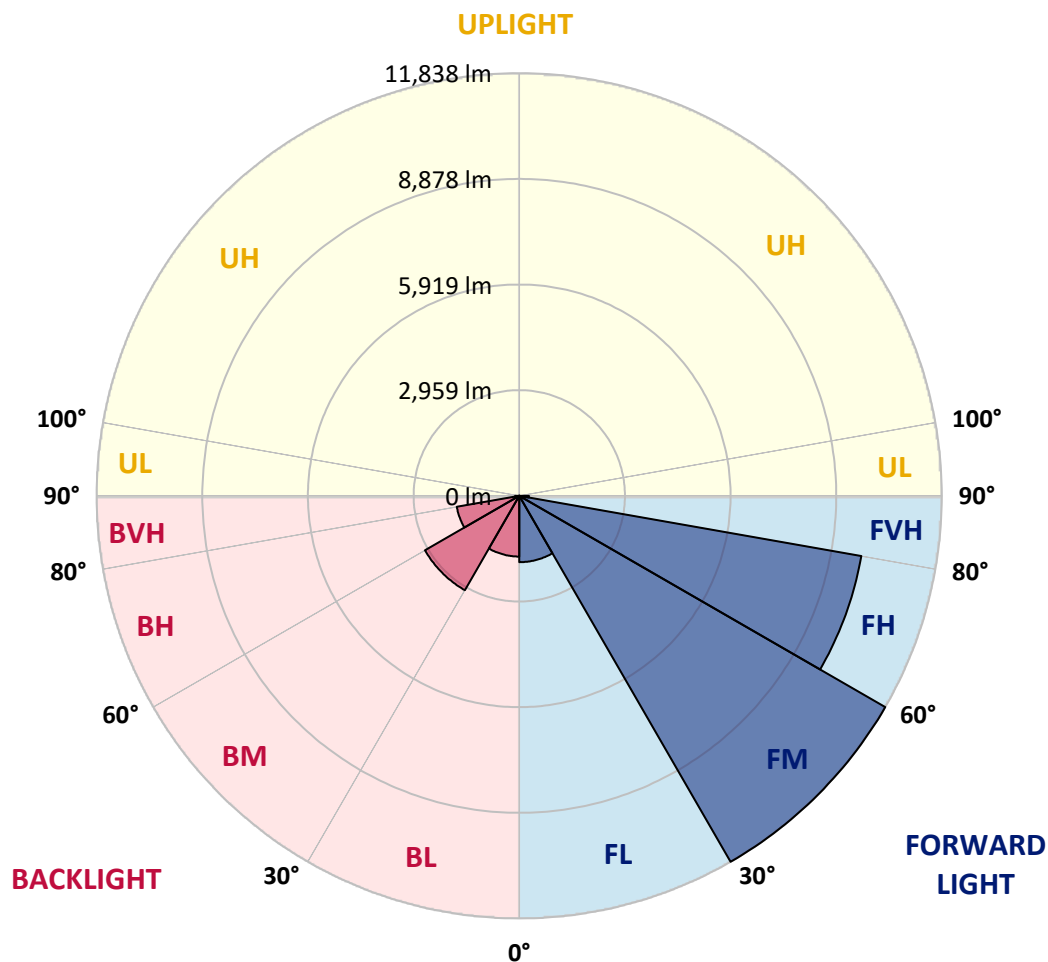
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1858.8  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 11837.6 | 39.0      |                         |      |          |
| FH   | (60°-80°)   | 9730.2  | 32.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 268.6   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1702.3  | 5.6       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3050.3  | 10.1      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1775.6  | 5.9       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 115.5   | 0.4       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4232.6  | 4232.6  | 4232.6  | 4232.6  | 4232.6  | 4232.6  | 4232.6  | 4232.6  | 4232.6  | 4232.6  |
| 2.5°  | 3901.6  | 3900.1  | 3920.3  | 3926.5  | 3963.8  | 3990.2  | 4039.9  | 4092.7  | 4161.1  | 4168.9  |
| 5°    | 3676.3  | 3676.3  | 3699.6  | 3724.5  | 3772.6  | 3825.5  | 3901.6  | 3993.3  | 4111.4  | 4130.0  |
| 7.5°  | 3485.2  | 3497.6  | 3517.8  | 3566.0  | 3621.9  | 3698.1  | 3814.6  | 3945.1  | 4100.5  | 4130.0  |
| 10°   | 3331.4  | 3345.3  | 3370.2  | 3409.1  | 3493.0  | 3598.6  | 3750.9  | 3918.7  | 4126.9  | 4173.5  |
| 12.5° | 3283.2  | 3297.2  | 3311.2  | 3340.7  | 3418.4  | 3542.7  | 3724.5  | 3931.1  | 4190.6  | 4237.2  |
| 15°   | 3395.1  | 3412.2  | 3401.3  | 3393.5  | 3433.9  | 3547.3  | 3736.9  | 3976.2  | 4269.9  | 4336.7  |
| 17.5° | 3653.0  | 3659.2  | 3634.4  | 3561.3  | 3555.1  | 3615.7  | 3795.9  | 4038.3  | 4369.3  | 4442.3  |
| 20°   | 4069.4  | 4058.5  | 4007.3  | 3862.8  | 3780.4  | 3768.0  | 3896.9  | 4131.6  | 4471.9  | 4549.5  |
| 22.5° | 4635.0  | 4622.6  | 4520.0  | 4291.6  | 4108.3  | 3987.1  | 4043.0  | 4252.8  | 4586.8  | 4673.8  |
| 25°   | 5340.4  | 5323.3  | 5172.6  | 4861.9  | 4577.5  | 4277.6  | 4241.9  | 4412.8  | 4728.2  | 4809.0  |
| 27.5° | 6163.9  | 6150.0  | 5986.8  | 5576.6  | 5166.4  | 4675.4  | 4488.9  | 4600.8  | 4875.8  | 4967.5  |
| 30°   | 7049.6  | 7090.0  | 6801.0  | 6359.7  | 5840.8  | 5194.4  | 4821.5  | 4832.3  | 5067.0  | 5149.3  |
| 32.5° | 8090.7  | 8160.6  | 7812.5  | 7253.2  | 6544.6  | 5758.4  | 5241.0  | 5155.5  | 5345.1  | 5413.5  |
| 35°   | 9122.4  | 9201.6  | 8912.6  | 8294.2  | 7478.5  | 6423.4  | 5679.2  | 5526.9  | 5714.9  | 5789.5  |
| 37.5° | 10014.3 | 10119.9 | 9970.8  | 9433.2  | 8477.6  | 7225.2  | 6251.0  | 5963.5  | 6170.2  | 6263.4  |
| 40°   | 10718.2 | 10879.7 | 10868.9 | 10533.3 | 9655.3  | 8197.9  | 6976.6  | 6502.7  | 6735.7  | 6836.7  |
| 42.5° | 11290.0 | 11429.8 | 11551.0 | 11533.9 | 10884.4 | 9302.6  | 7829.6  | 7203.4  | 7380.6  | 7497.1  |
| 45°   | 11684.6 | 11833.8 | 12094.8 | 12376.1 | 12066.9 | 10485.1 | 8807.0  | 8034.7  | 8196.3  | 8371.9  |
| 47.5° | 12037.3 | 12206.7 | 12545.4 | 12991.4 | 13070.6 | 11672.2 | 9877.5  | 9002.8  | 9150.4  | 9332.2  |
| 50°   | 12068.4 | 12214.5 | 12739.7 | 13372.1 | 13783.8 | 12812.7 | 11027.4 | 10088.9 | 10227.2 | 10421.4 |
| 52.5° | 11317.9 | 11547.9 | 12464.6 | 13361.2 | 14111.7 | 13766.7 | 12169.4 | 11218.5 | 11373.9 | 11606.9 |
| 55°   | 8785.2  | 9122.4  | 11658.2 | 12944.8 | 13995.1 | 14383.6 | 13255.5 | 12419.6 | 12618.5 | 12862.4 |
| 57.5° | 7567.0  | 7714.6  | 9254.5  | 12186.5 | 13463.7 | 14543.6 | 14172.3 | 13633.1 | 13953.2 | 14220.4 |
| 60°   | 6801.0  | 6923.8  | 7834.3  | 11007.2 | 12764.5 | 14290.4 | 14880.8 | 14764.3 | 15317.4 | 15635.9 |
| 62.5° | 5980.6  | 6097.1  | 6925.3  | 9190.8  | 11869.5 | 13869.3 | 15328.3 | 15808.4 | 16715.8 | 17063.9 |
| 65°   | 5166.4  | 5265.8  | 6059.8  | 7722.4  | 10732.1 | 13448.2 | 15559.8 | 16711.2 | 18010.2 | 18370.6 |
| 67.5° | 4259.0  | 4341.3  | 5091.8  | 6515.1  | 9349.3  | 12871.7 | 15674.8 | 17421.3 | 19136.7 | 19445.9 |
| 70°   | 3073.4  | 3137.1  | 3912.5  | 5152.4  | 7613.6  | 11880.4 | 15628.2 | 17924.7 | 19720.9 | 19968.0 |
| 72.5° | 1452.8  | 1510.3  | 2420.8  | 3345.3  | 5377.7  | 9950.6  | 14685.0 | 17525.4 | 19127.4 | 19004.6 |
| 75°   | 775.3   | 825.1   | 1390.7  | 1835.0  | 2840.4  | 6821.2  | 12017.1 | 15096.8 | 16061.7 | 15465.0 |
| 77.5° | 525.2   | 564.0   | 860.8   | 1101.6  | 1297.4  | 3238.1  | 7724.0  | 10452.5 | 10056.2 | 9071.1  |
| 80°   | 416.4   | 456.8   | 705.4   | 745.8   | 627.7   | 1170.0  | 3191.5  | 4838.6  | 3475.9  | 2779.8  |
| 82.5° | 320.1   | 365.1   | 593.6   | 540.7   | 341.8   | 480.1   | 929.2   | 1530.5  | 890.3   | 677.5   |
| 85°   | 195.8   | 243.9   | 466.1   | 344.9   | 192.7   | 219.1   | 315.4   | 425.7   | 271.9   | 226.9   |
| 87.5° | 99.4    | 139.8   | 236.2   | 125.9   | 87.0    | 51.3    | 83.9    | 83.9    | 71.5    | 62.2    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4232.6  | 0°    | 4232.6  | 4232.6 | 4232.6 | 4232.6 | 4232.6 | 4232.6 | 4232.6 | 4232.6 | 4232.6 | 4232.6 |
| 4210.8  | 2.5°  | 4248.1  | 4279.2 | 4332.0 | 4381.7 | 4420.6 | 4457.9 | 4495.2 | 4515.4 | 4521.6 | 4546.4 |
| 4234.1  | 5°    | 4297.8  | 4355.3 | 4457.9 | 4554.2 | 4614.8 | 4652.1 | 4678.5 | 4694.0 | 4697.2 | 4704.9 |
| 4297.8  | 7.5°  | 4389.5  | 4481.2 | 4624.1 | 4720.5 | 4765.5 | 4762.4 | 4751.5 | 4712.7 | 4697.2 | 4683.2 |
| 4391.1  | 10°   | 4518.5  | 4639.7 | 4815.2 | 4882.1 | 4854.1 | 4779.5 | 4683.2 | 4569.7 | 4516.9 | 4465.6 |
| 4518.5  | 12.5° | 4678.5  | 4832.3 | 5004.8 | 5001.7 | 4863.4 | 4672.3 | 4448.5 | 4274.5 | 4164.2 | 4085.0 |
| 4675.4  | 15°   | 4872.7  | 5049.9 | 5181.9 | 5076.3 | 4773.3 | 4429.9 | 4102.0 | 3875.2 | 3775.7 | 3688.7 |
| 4833.9  | 17.5° | 5073.2  | 5262.7 | 5323.3 | 5053.0 | 4546.4 | 4071.0 | 3699.6 | 3520.9 | 3423.0 | 3376.4 |
| 5004.8  | 20°   | 5269.0  | 5457.0 | 5407.2 | 4919.3 | 4201.5 | 3663.9 | 3332.9 | 3235.0 | 3214.8 | 3225.7 |
| 5171.1  | 22.5° | 5475.6  | 5643.4 | 5424.3 | 4661.4 | 3761.8 | 3247.5 | 3065.7 | 3068.8 | 3113.8 | 3146.5 |
| 5345.1  | 25°   | 5686.9  | 5800.4 | 5379.3 | 4288.5 | 3289.4 | 2941.4 | 2896.3 | 2946.0 | 3034.6 | 3098.3 |
| 5540.9  | 27.5° | 5890.5  | 5940.2 | 5281.4 | 3827.0 | 2883.9 | 2722.3 | 2730.0 | 2832.6 | 2966.2 | 3054.8 |
| 5778.6  | 30°   | 6120.4  | 6064.5 | 5093.4 | 3308.1 | 2602.6 | 2534.3 | 2599.5 | 2719.2 | 2852.8 | 2932.0 |
| 6078.5  | 32.5° | 6379.9  | 6171.7 | 4795.0 | 2827.9 | 2403.7 | 2383.5 | 2490.8 | 2568.4 | 2627.5 | 2650.8 |
| 6476.3  | 35°   | 6703.1  | 6322.4 | 4412.8 | 2490.8 | 2225.1 | 2273.2 | 2375.8 | 2336.9 | 2313.6 | 2301.2 |
| 7010.8  | 37.5° | 7122.6  | 6526.0 | 3965.3 | 2271.7 | 2080.5 | 2194.0 | 2235.9 | 2114.7 | 2023.1 | 1978.0 |
| 7658.7  | 40°   | 7627.6  | 6824.3 | 3534.9 | 2102.3 | 1988.9 | 2125.6 | 2052.6 | 1906.5 | 1790.0 | 1726.3 |
| 8387.4  | 42.5° | 8188.6  | 7136.6 | 3172.9 | 1974.9 | 1937.6 | 2069.7 | 1917.4 | 1743.4 | 1555.4 | 1535.2 |
| 9256.0  | 45°   | 8777.4  | 7458.3 | 2925.8 | 1877.0 | 1912.7 | 2021.5 | 1839.7 | 1558.5 | 1424.8 | 1507.2 |
| 10127.7 | 47.5° | 9366.3  | 7753.5 | 2776.7 | 1804.0 | 1900.3 | 1967.1 | 1771.3 | 1455.9 | 1361.1 | 1480.8 |
| 11061.5 | 50°   | 10022.0 | 8017.6 | 2709.8 | 1751.1 | 1886.3 | 1945.4 | 1668.8 | 1429.5 | 1294.3 | 1373.6 |
| 12028.0 | 52.5° | 10673.1 | 8222.7 | 2660.1 | 1698.3 | 1866.1 | 1928.3 | 1619.1 | 1398.4 | 1213.5 | 1218.2 |
| 13000.7 | 55°   | 11322.6 | 8356.4 | 2605.7 | 1628.4 | 1821.1 | 1891.0 | 1614.4 | 1364.2 | 1152.9 | 1131.2 |
| 14029.3 | 57.5° | 12015.6 | 8432.5 | 2538.9 | 1550.7 | 1743.4 | 1796.2 | 1609.7 | 1337.8 | 1134.3 | 1098.5 |
| 15081.2 | 60°   | 12721.0 | 8544.4 | 2451.9 | 1455.9 | 1639.3 | 1682.8 | 1598.9 | 1328.5 | 1123.4 | 1062.8 |
| 16072.6 | 62.5° | 13353.4 | 8583.2 | 2347.8 | 1365.8 | 1505.6 | 1570.9 | 1575.6 | 1320.7 | 1093.9 | 989.8  |
| 16896.1 | 65°   | 13768.3 | 8415.4 | 2166.0 | 1263.2 | 1361.1 | 1455.9 | 1530.5 | 1294.3 | 1041.0 | 936.9  |
| 17303.2 | 67.5° | 13751.2 | 7936.8 | 1881.7 | 1131.2 | 1221.3 | 1328.5 | 1465.2 | 1249.3 | 977.3  | 871.7  |
| 16995.5 | 70°   | 13111.0 | 6992.1 | 1521.2 | 977.3  | 1067.5 | 1191.8 | 1381.3 | 1182.4 | 901.2  | 800.2  |
| 15112.3 | 72.5° | 11244.9 | 5472.5 | 1104.8 | 797.1  | 888.8  | 1050.4 | 1272.6 | 1101.6 | 823.5  | 736.5  |
| 11168.8 | 75°   | 8033.2  | 3463.4 | 748.9  | 612.2  | 691.4  | 890.3  | 1137.4 | 1006.9 | 752.0  | 739.6  |
| 5593.7  | 77.5° | 4103.6  | 1654.8 | 495.7  | 447.5  | 481.7  | 702.3  | 955.6  | 899.7  | 762.9  | 610.6  |
| 1591.1  | 80°   | 1334.7  | 610.6  | 312.3  | 304.5  | 320.1  | 467.7  | 739.6  | 738.1  | 578.0  | 414.9  |
| 385.3   | 82.5° | 425.7   | 262.6  | 203.5  | 195.8  | 188.0  | 293.7  | 515.9  | 584.2  | 390.0  | 262.6  |
| 138.3   | 85°   | 169.4   | 156.9  | 119.6  | 110.3  | 79.2   | 138.3  | 270.4  | 388.5  | 290.6  | 189.6  |
| 35.7    | 87.5° | 62.2    | 62.2   | 32.6   | 23.3   | 17.1   | 46.6   | 73.0   | 116.5  | 166.3  | 97.9   |
| 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°   |
|--------|
| 4232.6 |
| 4560.4 |
| 4717.4 |
| 4686.3 |
| 4450.1 |
| 4066.3 |
| 3679.4 |
| 3390.4 |
| 3221.0 |
| 3154.2 |
| 3115.4 |
| 3076.5 |
| 2950.7 |
| 2663.2 |
| 2313.6 |
| 1988.9 |
| 1730.9 |
| 1555.4 |
| 1550.7 |
| 1536.7 |
| 1432.6 |
| 1250.8 |
| 1146.7 |
| 1103.2 |
| 1067.5 |
| 989.8  |
| 936.9  |
| 876.3  |
| 809.5  |
| 731.8  |
| 697.7  |
| 543.8  |
| 366.7  |
| 261.0  |
| 194.2  |
| 96.3   |
| 0.0    |