

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: P956483

Luminaire Tested: **GLAN-SB9A-840-U-T4W-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P956483  
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-SB9A-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 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: 30104 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

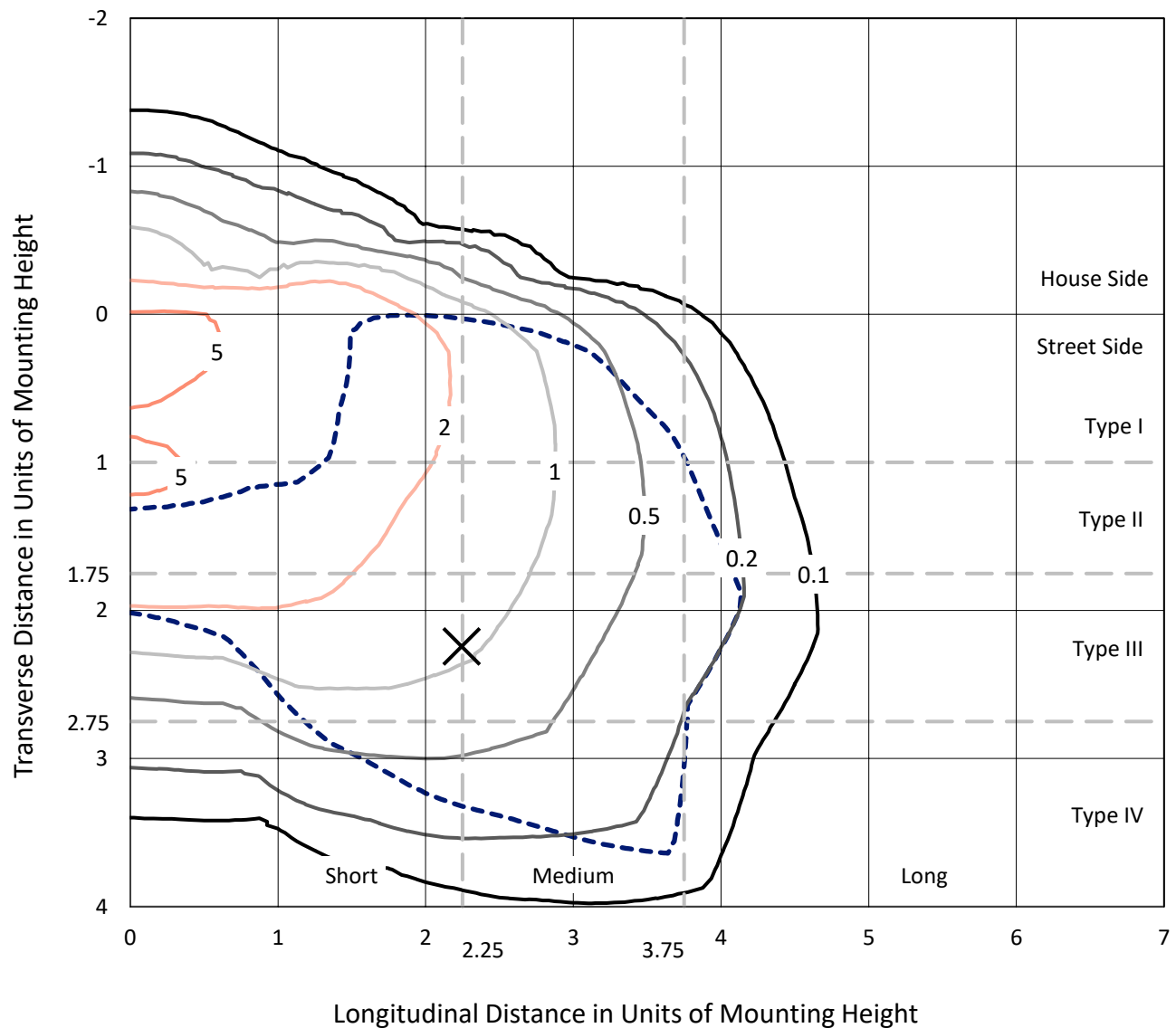
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

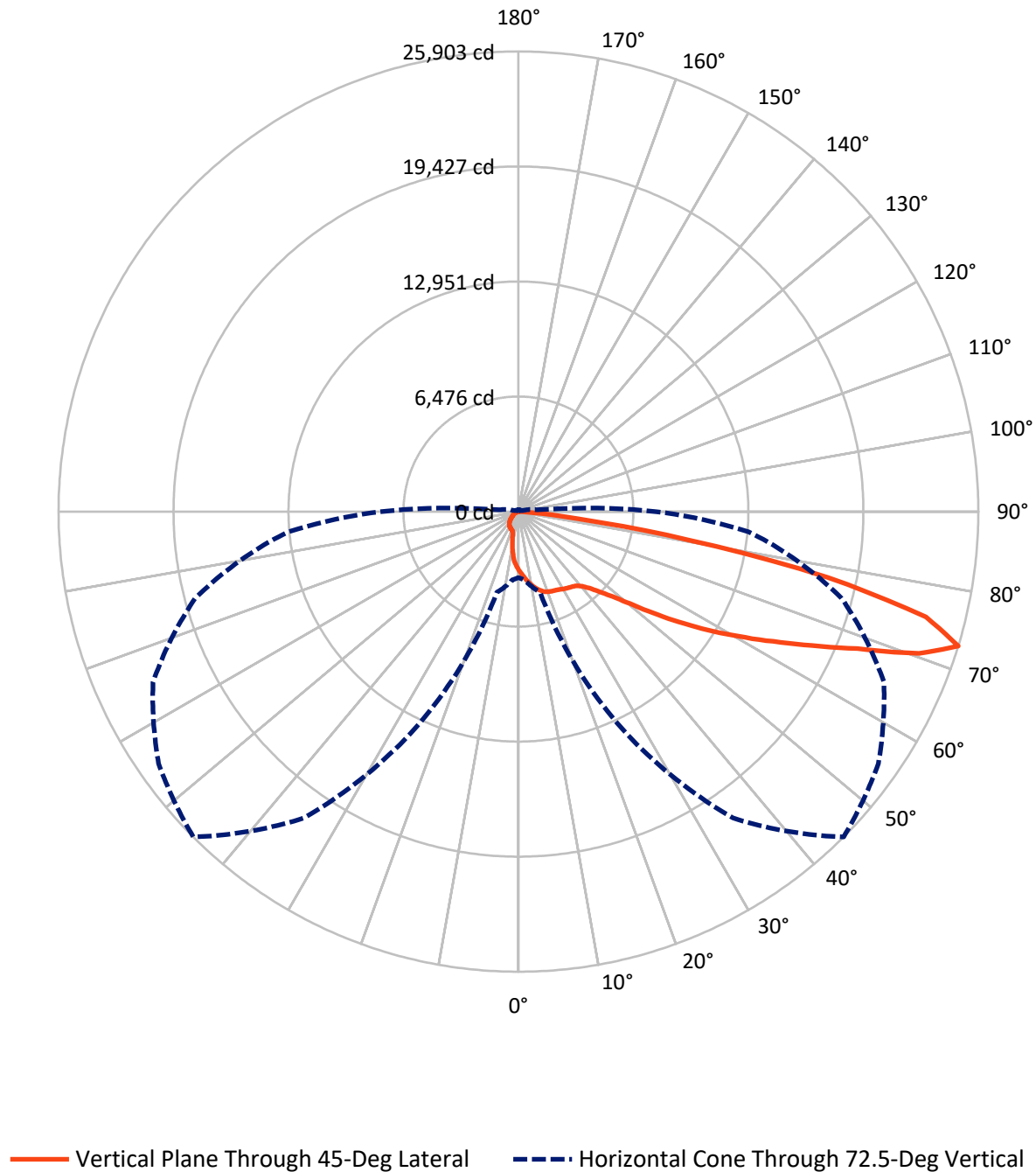
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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    | 3163.1   | 0.0    | 3163.1  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 26940.9  | 0.0    | 26940.9 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 30104.0  | 0.0    | 30104.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 310.7   | 1.0       |
| 10°-20°   | 908.1   | 3.0       |
| 20°-30°   | 1491.3  | 5.0       |
| 30°-40°   | 2115.0  | 7.0       |
| 40°-50°   | 3495.9  | 11.6      |
| 50°-60°   | 6280.0  | 20.9      |
| 60°-70°   | 8720.2  | 29.0      |
| 70°-80°   | 6325.3  | 21.0      |
| 80°-90°   | 457.3   | 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°    | 30104.0 | 100.0     |
| 0°-180°   | 30104.0 | 100.0     |

**Coefficient of Utilization**



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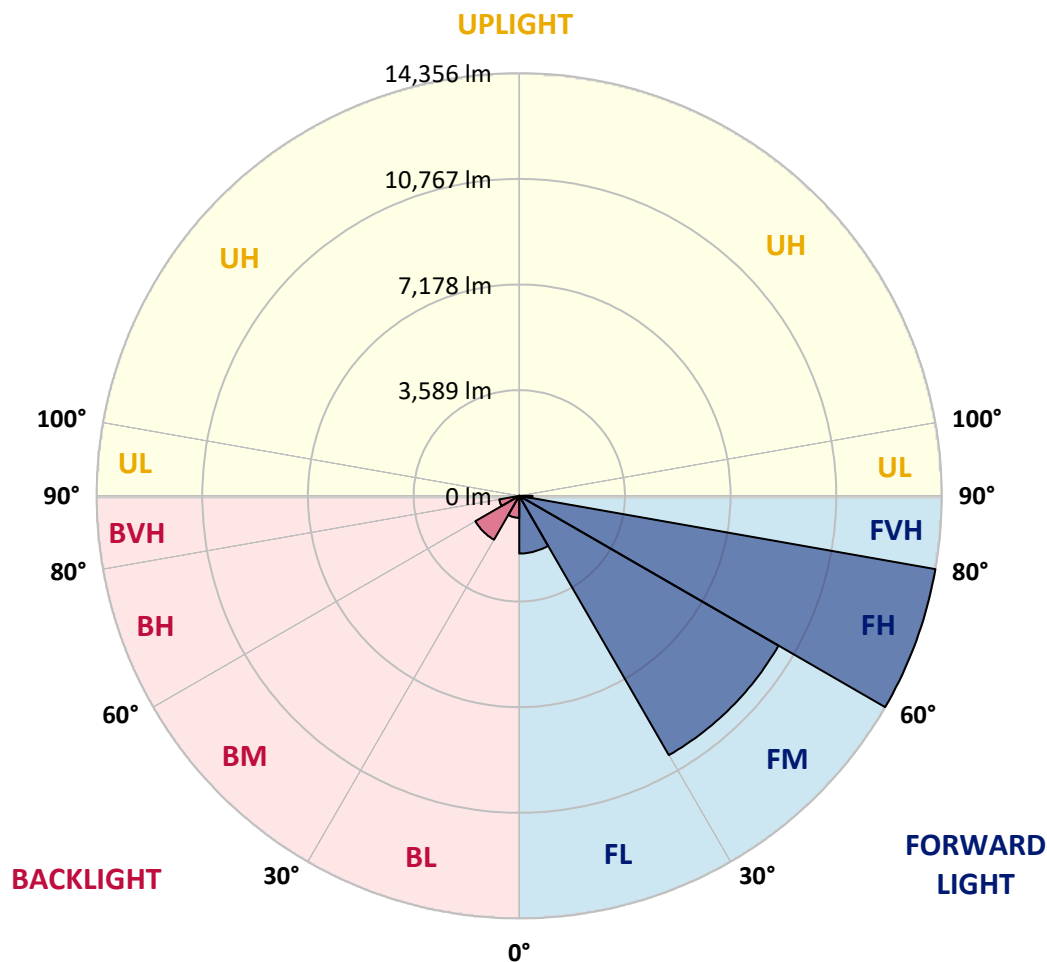
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1961.0  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 10170.7 | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 14355.7 | 47.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 453.5   | 1.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 749.2   | 2.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1720.3  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 689.8   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 3.8     | 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°    | 3298.0  | 3298.0  | 3298.0  | 3298.0  | 3298.0  | 3298.0  | 3298.0  | 3298.0  | 3298.0  | 3298.0  |
| 2.5°  | 3602.1  | 3608.2  | 3604.1  | 3579.5  | 3538.4  | 3515.8  | 3503.4  | 3462.3  | 3435.6  | 3388.4  |
| 5°    | 3932.9  | 3957.5  | 3943.2  | 3893.8  | 3815.8  | 3760.3  | 3743.8  | 3659.6  | 3583.6  | 3495.2  |
| 7.5°  | 4284.3  | 4296.6  | 4269.9  | 4206.2  | 4101.4  | 4006.9  | 3992.5  | 3875.4  | 3754.1  | 3618.5  |
| 10°   | 4588.4  | 4602.8  | 4561.7  | 4469.2  | 4350.0  | 4232.9  | 4212.3  | 4082.9  | 3939.1  | 3772.6  |
| 12.5° | 4843.2  | 4857.6  | 4804.1  | 4693.2  | 4561.7  | 4440.4  | 4419.9  | 4284.3  | 4126.0  | 3941.1  |
| 15°   | 5036.3  | 5063.0  | 4991.1  | 4871.9  | 4730.2  | 4608.9  | 4598.6  | 4465.1  | 4311.0  | 4105.5  |
| 17.5° | 5149.3  | 5176.0  | 5108.2  | 4964.4  | 4843.2  | 4740.4  | 4728.1  | 4617.1  | 4473.3  | 4276.0  |
| 20°   | 5167.8  | 5192.5  | 5120.6  | 4995.2  | 4894.5  | 4812.3  | 4806.2  | 4726.0  | 4621.2  | 4432.2  |
| 22.5° | 5112.3  | 5143.2  | 5077.4  | 4976.7  | 4906.9  | 4863.7  | 4855.5  | 4810.3  | 4750.7  | 4590.4  |
| 25°   | 5054.8  | 5079.5  | 5030.2  | 4941.8  | 4904.8  | 4900.7  | 4906.9  | 4898.6  | 4886.3  | 4750.7  |
| 27.5° | 5050.7  | 5077.4  | 5021.9  | 4937.7  | 4917.1  | 4960.3  | 4966.5  | 5005.5  | 5015.8  | 4896.6  |
| 30°   | 5085.6  | 5104.1  | 5050.7  | 4962.3  | 4952.1  | 5050.7  | 5052.8  | 5122.6  | 5139.1  | 5019.9  |
| 32.5° | 5161.7  | 5182.2  | 5128.8  | 4999.3  | 4984.9  | 5122.6  | 5128.8  | 5221.3  | 5248.0  | 5151.4  |
| 35°   | 5340.4  | 5365.1  | 5303.4  | 5102.1  | 5050.7  | 5190.4  | 5208.9  | 5317.8  | 5371.3  | 5291.1  |
| 37.5° | 5786.3  | 5714.4  | 5630.2  | 5309.6  | 5200.7  | 5297.3  | 5328.1  | 5455.5  | 5550.0  | 5457.6  |
| 40°   | 6893.9  | 6667.8  | 6404.8  | 5663.0  | 5463.7  | 5525.4  | 5550.0  | 5677.4  | 5806.9  | 5716.5  |
| 42.5° | 8556.2  | 8289.1  | 7865.8  | 6476.7  | 5860.3  | 5891.1  | 5909.6  | 6020.6  | 6203.4  | 6131.5  |
| 45°   | 10037.7 | 9941.1  | 9509.6  | 7865.8  | 6602.1  | 6450.0  | 6472.6  | 6530.2  | 6799.3  | 6772.6  |
| 47.5° | 11176.1 | 11120.6 | 10787.7 | 9460.3  | 7855.5  | 7134.3  | 7198.0  | 7224.7  | 7613.0  | 7707.6  |
| 50°   | 12051.4 | 12030.9 | 11732.9 | 10878.1 | 9493.2  | 8143.2  | 8165.8  | 8108.2  | 8689.8  | 8924.0  |
| 52.5° | 12877.4 | 12947.3 | 12727.4 | 12195.2 | 11241.8 | 9464.4  | 9460.3  | 9189.1  | 9974.0  | 10327.4 |
| 55°   | 13623.3 | 13648.0 | 13670.6 | 13539.1 | 13000.7 | 10968.5 | 10929.5 | 10485.7 | 11463.7 | 11829.5 |
| 57.5° | 14324.0 | 14334.3 | 14535.7 | 14804.8 | 14831.6 | 12583.6 | 12511.7 | 11979.5 | 13091.1 | 13352.1 |
| 60°   | 14794.6 | 14841.8 | 15267.2 | 16015.1 | 16341.8 | 14250.1 | 14211.0 | 13668.5 | 14747.3 | 14868.5 |
| 62.5° | 14116.5 | 14404.2 | 15476.8 | 16960.3 | 17767.9 | 16097.3 | 16078.8 | 15569.2 | 16489.8 | 16391.2 |
| 65°   | 11426.8 | 11913.7 | 13800.1 | 17599.4 | 19167.2 | 18160.3 | 18187.1 | 17644.6 | 18279.5 | 17959.0 |
| 67.5° | 7993.2  | 8506.9  | 10738.4 | 17650.7 | 20730.9 | 20583.0 | 20737.1 | 19886.4 | 20180.2 | 19461.0 |
| 70°   | 5527.4  | 5792.5  | 7245.2  | 16545.3 | 21949.4 | 23920.0 | 23915.8 | 22639.8 | 22070.6 | 20145.3 |
| 72.5° | 3717.1  | 3854.8  | 4705.5  | 13126.1 | 21053.5 | 25902.8 | 25783.7 | 24743.9 | 22707.6 | 18840.5 |
| 75°   | 1567.8  | 1668.5  | 2178.1  | 7376.7  | 16656.2 | 23698.0 | 23375.4 | 21867.2 | 20176.1 | 14835.7 |
| 77.5° | 497.3   | 540.4   | 858.9   | 2640.4  | 9174.7  | 17813.1 | 17472.0 | 13656.2 | 13522.7 | 7442.5  |
| 80°   | 236.3   | 275.3   | 482.9   | 1060.3  | 3610.3  | 9688.4  | 9641.1  | 6195.2  | 5817.1  | 2009.6  |
| 82.5° | 102.7   | 121.2   | 267.1   | 567.1   | 1615.1  | 3456.2  | 3526.0  | 2108.2  | 1744.5  | 762.3   |
| 85°   | 32.9    | 43.2    | 123.3   | 261.0   | 682.2   | 858.9   | 848.6   | 501.4   | 702.7   | 415.1   |
| 87.5° | 0.0     | 0.0     | 41.1    | 59.6    | 69.9    | 49.3    | 55.5    | 43.2    | 195.2   | 115.1   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3298.0  | 0°    | 3298.0  | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 |
| 3339.1  | 2.5°  | 3314.4  | 3281.5 | 3224.0 | 3170.6 | 3123.3 | 3076.0 | 3047.3 | 3006.2 | 3002.1 | 3002.1 |
| 3392.5  | 5°    | 3337.0  | 3283.6 | 3180.8 | 3071.9 | 2946.6 | 2827.4 | 2708.2 | 2593.2 | 2556.2 | 2529.5 |
| 3478.8  | 7.5°  | 3402.8  | 3318.5 | 3156.2 | 2948.6 | 2710.3 | 2449.3 | 2266.4 | 2069.2 | 1993.2 | 1952.1 |
| 3593.8  | 10°   | 3497.3  | 3382.2 | 3135.6 | 2771.9 | 2385.6 | 2030.1 | 1769.2 | 1555.5 | 1473.3 | 1438.4 |
| 3719.2  | 12.5° | 3602.1  | 3460.3 | 3098.6 | 2552.1 | 2030.1 | 1604.8 | 1350.0 | 1251.4 | 1239.0 | 1239.0 |
| 3869.2  | 15°   | 3727.4  | 3554.8 | 3034.9 | 2293.2 | 1658.2 | 1269.9 | 1179.5 | 1183.6 | 1195.9 | 1204.1 |
| 4015.1  | 17.5° | 3856.9  | 3655.5 | 2934.3 | 2003.4 | 1329.5 | 1142.5 | 1144.5 | 1150.7 | 1161.0 | 1169.2 |
| 4173.3  | 20°   | 3996.6  | 3756.2 | 2800.7 | 1695.2 | 1140.4 | 1105.5 | 1111.6 | 1117.8 | 1126.0 | 1130.1 |
| 4321.2  | 22.5° | 4146.6  | 3850.7 | 2642.5 | 1393.2 | 1076.7 | 1074.7 | 1076.7 | 1082.9 | 1093.2 | 1093.2 |
| 4493.9  | 25°   | 4306.9  | 3955.5 | 2461.7 | 1173.3 | 1043.8 | 1043.8 | 1047.9 | 1052.1 | 1060.3 | 1060.3 |
| 4660.3  | 27.5° | 4471.2  | 4052.1 | 2270.6 | 1058.2 | 1015.1 | 1013.0 | 1013.0 | 1019.2 | 1023.3 | 1025.3 |
| 4824.7  | 30°   | 4652.1  | 4165.1 | 2079.5 | 1033.6 | 992.5  | 982.2  | 976.0  | 980.1  | 984.3  | 986.3  |
| 4997.3  | 32.5° | 4837.0  | 4274.0 | 1908.9 | 1043.8 | 969.9  | 951.4  | 930.8  | 926.7  | 926.7  | 934.9  |
| 5176.0  | 35°   | 5042.5  | 4393.2 | 1777.4 | 1078.8 | 957.5  | 906.2  | 873.3  | 854.8  | 856.9  | 869.2  |
| 5389.7  | 37.5° | 5289.1  | 4537.0 | 1680.8 | 1109.6 | 949.3  | 854.8  | 801.4  | 778.8  | 764.4  | 778.8  |
| 5683.6  | 40°   | 5611.7  | 4748.6 | 1611.0 | 1134.3 | 939.0  | 795.2  | 723.3  | 686.3  | 659.6  | 667.8  |
| 6139.7  | 42.5° | 6086.3  | 5081.5 | 1584.3 | 1136.3 | 916.4  | 725.3  | 643.2  | 593.8  | 554.8  | 556.9  |
| 6826.1  | 45°   | 6752.1  | 5607.6 | 1721.9 | 1109.6 | 867.1  | 649.3  | 558.9  | 493.2  | 468.5  | 462.3  |
| 7851.4  | 47.5° | 7664.4  | 6374.0 | 2040.4 | 1054.1 | 795.2  | 575.3  | 476.7  | 421.2  | 402.7  | 392.5  |
| 9197.3  | 50°   | 8887.0  | 7358.2 | 2393.8 | 992.5  | 723.3  | 505.5  | 408.9  | 374.0  | 361.6  | 351.4  |
| 10793.9 | 52.5° | 10304.8 | 8356.9 | 2683.6 | 930.8  | 651.4  | 443.8  | 365.8  | 345.2  | 334.9  | 326.7  |
| 12335.0 | 55°   | 11605.5 | 9045.2 | 2667.1 | 865.1  | 581.5  | 394.5  | 334.9  | 322.6  | 310.3  | 302.1  |
| 13662.4 | 57.5° | 12415.1 | 9141.8 | 2198.6 | 793.2  | 501.4  | 355.5  | 306.2  | 297.9  | 283.6  | 273.3  |
| 14811.0 | 60°   | 12787.0 | 8591.1 | 1541.1 | 698.6  | 421.2  | 318.5  | 275.3  | 271.2  | 252.7  | 238.4  |
| 15898.0 | 62.5° | 12854.8 | 7567.8 | 1027.4 | 581.5  | 351.4  | 283.6  | 244.5  | 238.4  | 213.7  | 189.0  |
| 16781.6 | 65°   | 12579.5 | 6104.8 | 711.0  | 454.1  | 300.0  | 246.6  | 209.6  | 197.3  | 170.5  | 145.9  |
| 16991.2 | 67.5° | 11708.3 | 4286.3 | 495.2  | 326.7  | 254.8  | 195.2  | 166.4  | 162.3  | 141.8  | 121.2  |
| 15922.7 | 70°   | 10111.7 | 2443.2 | 330.8  | 244.5  | 201.4  | 133.6  | 131.5  | 135.6  | 115.1  | 98.6   |
| 13009.0 | 72.5° | 7752.8  | 1117.8 | 205.5  | 178.8  | 137.7  | 90.4   | 104.8  | 106.8  | 88.4   | 74.0   |
| 8116.5  | 75°   | 4563.7  | 478.8  | 129.5  | 115.1  | 69.9   | 59.6   | 76.0   | 78.1   | 59.6   | 47.3   |
| 2967.1  | 77.5° | 1553.4  | 180.8  | 82.2   | 67.8   | 34.9   | 32.9   | 49.3   | 49.3   | 32.9   | 18.5   |
| 595.9   | 80°   | 353.4   | 67.8   | 41.1   | 26.7   | 16.4   | 14.4   | 16.4   | 14.4   | 8.2    | 2.1    |
| 182.9   | 82.5° | 100.7   | 26.7   | 16.4   | 10.3   | 6.2    | 6.2    | 2.1    | 0.0    | 0.0    | 0.0    |
| 63.7    | 85°   | 28.8    | 12.3   | 4.1    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22.6    | 87.5° | 12.3    | 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    |

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| 180°   |
|--------|
| 3298.0 |
| 3012.3 |
| 2541.8 |
| 1958.2 |
| 1438.4 |
| 1239.0 |
| 1204.1 |
| 1169.2 |
| 1132.2 |
| 1097.3 |
| 1062.3 |
| 1027.4 |
| 990.4  |
| 941.1  |
| 875.3  |
| 774.7  |
| 663.7  |
| 548.6  |
| 454.1  |
| 386.3  |
| 349.3  |
| 324.7  |
| 297.9  |
| 271.2  |
| 234.2  |
| 176.7  |
| 137.7  |
| 115.1  |
| 90.4   |
| 65.8   |
| 41.1   |
| 14.4   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |