

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: P944427

Luminaire Tested: **GLAN-SB9B-840-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9B-840-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49093 lumens  
Efficiency: N/A  
Efficacy: 149.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 329.5  
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

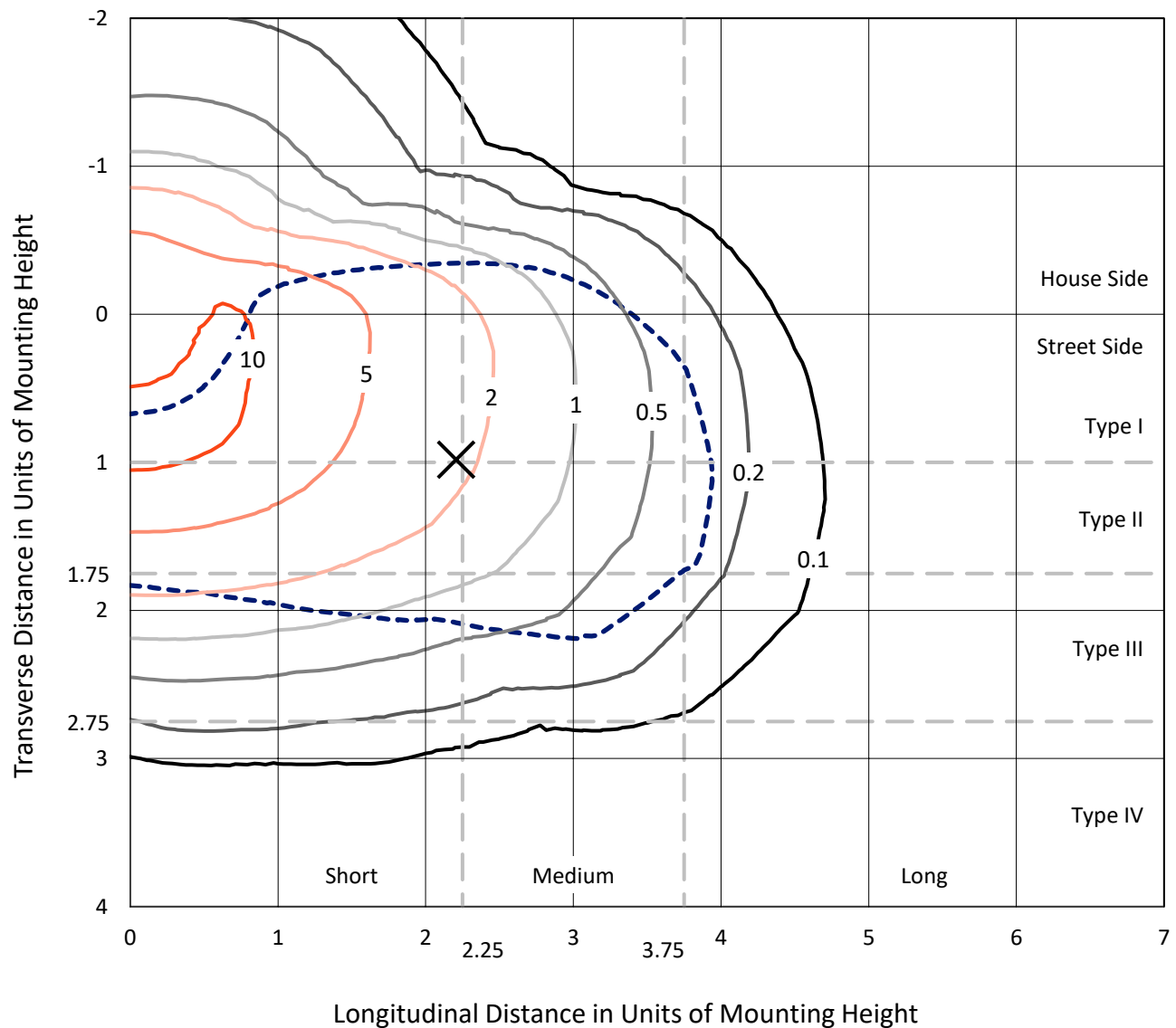


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## Iso-Footcandle Lines of Horizontal Illumination

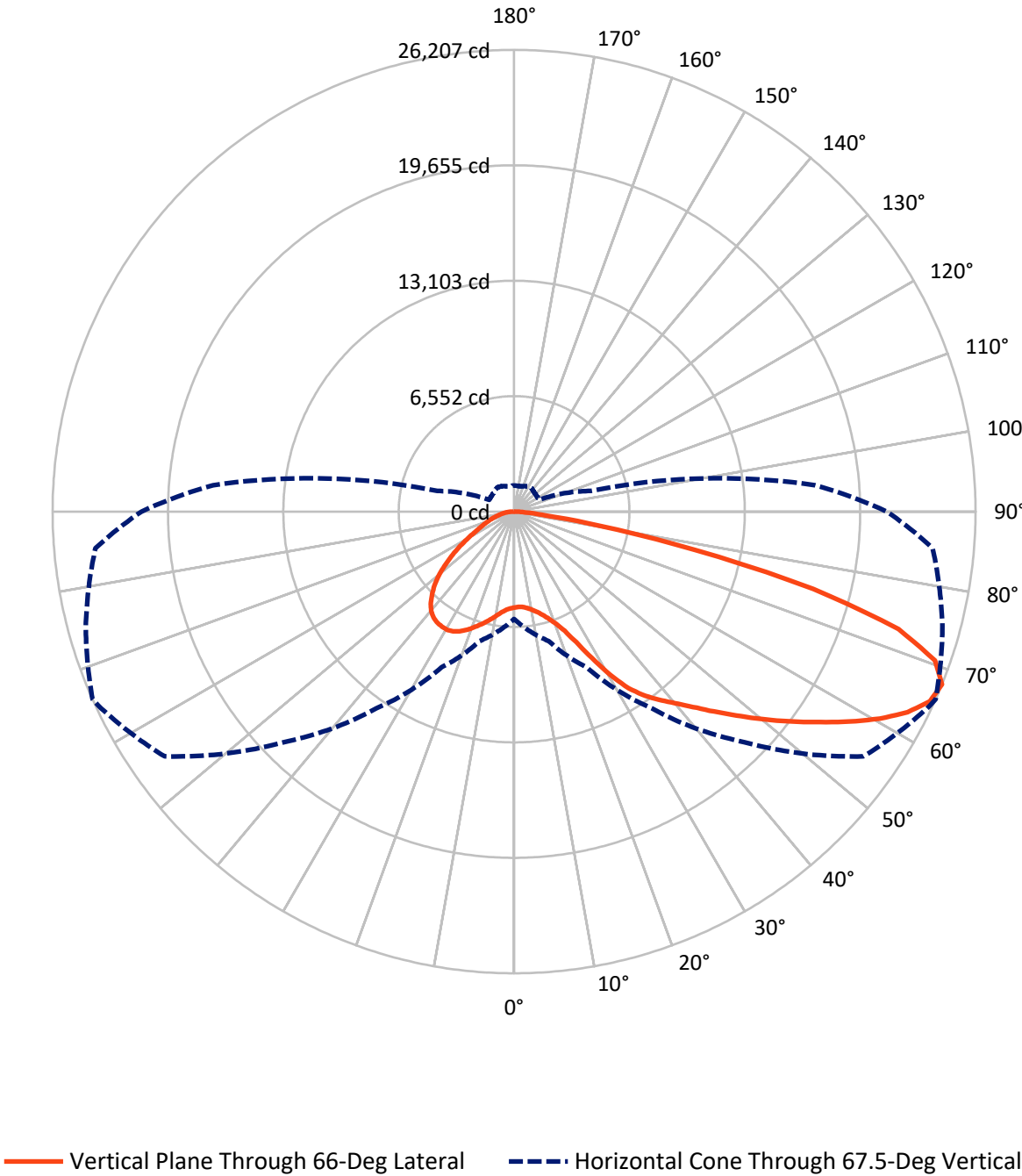
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
Type III - 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    | 12206.8  | 0.0    | 12206.8 |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 36886.2  | 0.0    | 36886.2 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 49093.0  | 0.0    | 49093.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 539.9   | 1.1       |
| 10°-20°   | 1783.6  | 3.6       |
| 20°-30°   | 3437.8  | 7.0       |
| 30°-40°   | 6027.8  | 12.3      |
| 40°-50°   | 8961.3  | 18.3      |
| 50°-60°   | 11359.3 | 23.1      |
| 60°-70°   | 11114.8 | 22.6      |
| 70°-80°   | 5301.9  | 10.8      |
| 80°-90°   | 566.6   | 1.2       |
| 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°    | 49093.0 | 100.0     |
| 0°-180°   | 49093.0 | 100.0     |

**Coefficient of Utilization**



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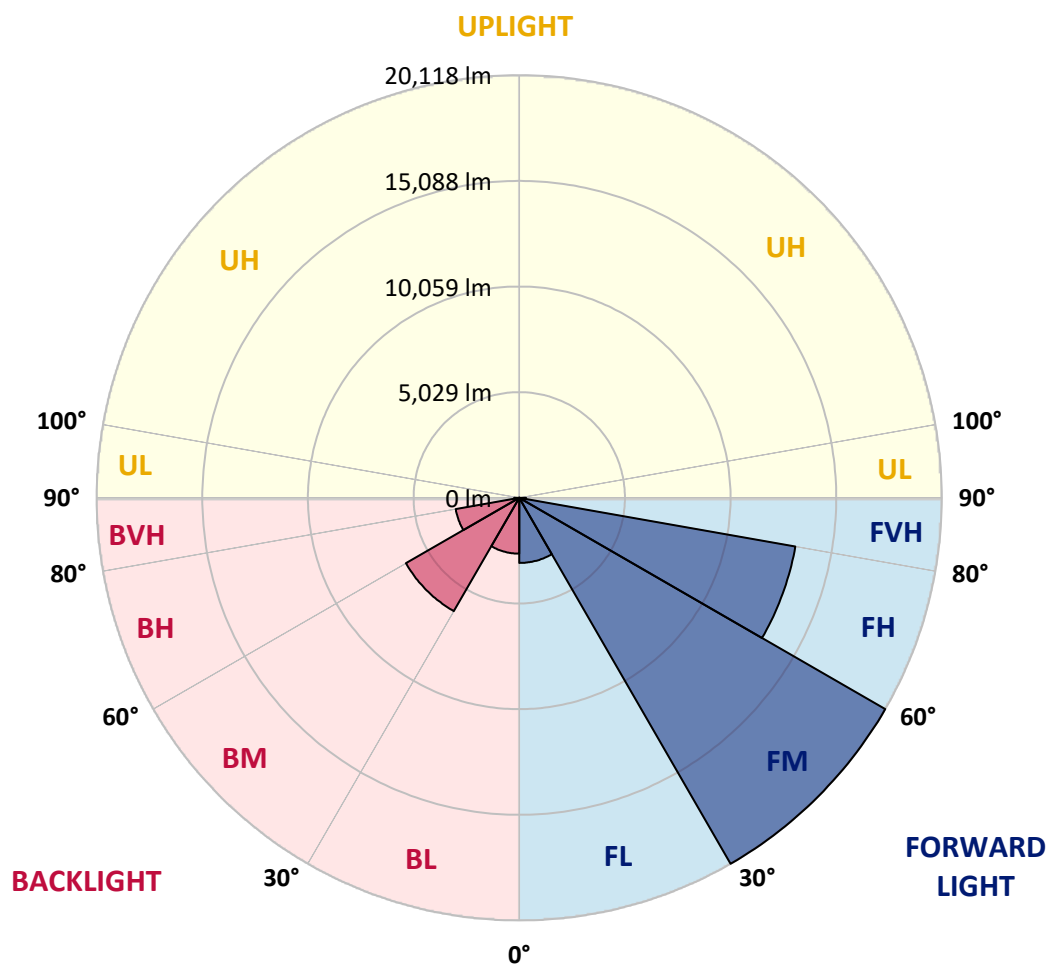
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3102.2  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 20117.9 | 41.0      |                         |      |         |
| FH   | (60°-80°)   | 13344.8 | 27.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 321.3   | 0.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2659.1  | 5.4       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6230.5  | 12.7      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3071.9  | 6.3       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 245.4   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5445.1  | 5445.1  | 5445.1  | 5445.1  | 5445.1  | 5445.1  | 5445.1  | 5445.1  | 5445.1  | 5445.1  |
| 2.5°  | 5388.3  | 5419.3  | 5411.5  | 5398.6  | 5396.1  | 5401.2  | 5409.0  | 5416.7  | 5414.1  | 5427.0  |
| 5°    | 5372.8  | 5403.8  | 5401.2  | 5401.2  | 5411.5  | 5432.2  | 5445.1  | 5458.0  | 5445.1  | 5460.5  |
| 7.5°  | 5383.2  | 5406.4  | 5416.7  | 5427.0  | 5452.8  | 5491.5  | 5522.4  | 5550.8  | 5535.3  | 5553.4  |
| 10°   | 5514.7  | 5532.8  | 5543.1  | 5543.1  | 5561.1  | 5605.0  | 5635.9  | 5687.5  | 5674.6  | 5703.0  |
| 12.5° | 5754.6  | 5772.6  | 5772.6  | 5762.3  | 5775.2  | 5803.6  | 5813.9  | 5870.7  | 5847.4  | 5893.9  |
| 15°   | 6048.6  | 6084.7  | 6056.4  | 6038.3  | 6043.5  | 6071.9  | 6069.3  | 6113.1  | 6089.9  | 6128.6  |
| 17.5° | 6373.6  | 6420.1  | 6373.6  | 6371.1  | 6360.7  | 6391.7  | 6394.3  | 6433.0  | 6391.7  | 6420.1  |
| 20°   | 6758.0  | 6822.4  | 6783.8  | 6796.7  | 6773.4  | 6786.3  | 6799.2  | 6856.0  | 6791.5  | 6812.1  |
| 22.5° | 7299.6  | 7377.0  | 7335.7  | 7384.8  | 7369.3  | 7359.0  | 7356.4  | 7457.0  | 7356.4  | 7364.1  |
| 25°   | 8088.9  | 8181.8  | 8109.6  | 8176.6  | 8176.6  | 8210.2  | 8248.8  | 8377.8  | 8210.2  | 8161.1  |
| 27.5° | 9254.8  | 9347.7  | 9205.8  | 9247.1  | 9234.2  | 9316.7  | 9275.4  | 9595.3  | 9414.7  | 9334.8  |
| 30°   | 10658.0 | 10823.1 | 10554.8 | 10544.5 | 10531.6 | 10663.1 | 10722.5 | 10934.0 | 10750.8 | 10670.9 |
| 32.5° | 12174.7 | 12347.5 | 12027.6 | 11934.8 | 11885.8 | 11965.7 | 11916.7 | 12087.0 | 11960.6 | 11836.8 |
| 35°   | 13779.0 | 13949.3 | 13644.9 | 13464.3 | 13268.3 | 13100.7 | 12925.3 | 12969.1 | 12850.5 | 12662.2 |
| 37.5° | 15295.7 | 15607.8 | 15285.4 | 15091.9 | 14730.8 | 14403.2 | 13913.2 | 13709.4 | 13598.5 | 13425.7 |
| 40°   | 16840.7 | 17018.7 | 16773.7 | 16608.6 | 16216.5 | 15703.2 | 14919.1 | 14488.4 | 14338.8 | 14171.1 |
| 42.5° | 17978.2 | 18148.5 | 18016.9 | 17903.4 | 17596.5 | 17000.7 | 15987.0 | 15447.9 | 15231.2 | 15042.9 |
| 45°   | 18881.0 | 19007.4 | 18924.9 | 18966.2 | 18834.6 | 18256.8 | 17093.5 | 16477.1 | 16252.6 | 16023.1 |
| 47.5° | 19244.7 | 19378.9 | 19510.4 | 19755.4 | 19979.8 | 19554.2 | 18282.6 | 17591.3 | 17354.0 | 17119.3 |
| 50°   | 19203.5 | 19340.2 | 19721.9 | 20242.9 | 20939.4 | 20797.5 | 19536.2 | 18777.9 | 18558.6 | 18290.4 |
| 52.5° | 18873.3 | 19028.1 | 19518.1 | 20384.8 | 21493.9 | 21728.7 | 20813.0 | 20003.1 | 19796.7 | 19476.9 |
| 55°   | 18006.6 | 18099.5 | 18834.6 | 20062.4 | 21625.5 | 22378.7 | 22064.0 | 21308.2 | 21101.9 | 20655.6 |
| 57.5° | 16399.7 | 16533.8 | 17604.2 | 19193.1 | 21295.3 | 22819.7 | 23162.8 | 22680.5 | 22481.8 | 21839.6 |
| 60°   | 14302.6 | 14516.7 | 15741.9 | 17733.2 | 20454.5 | 22817.2 | 24161.0 | 24029.5 | 23864.4 | 23005.5 |
| 62.5° | 11929.6 | 12177.2 | 13356.0 | 15669.7 | 18984.2 | 22169.7 | 24785.2 | 25159.2 | 25074.1 | 24081.1 |
| 65°   | 9161.9  | 9332.2  | 10505.8 | 13000.1 | 16696.3 | 20779.5 | 24857.4 | 25930.5 | 25945.9 | 24898.7 |
| 67.5° | 6100.2  | 6590.3  | 7609.2  | 9755.2  | 13632.0 | 18507.0 | 24222.9 | 26056.9 | 26206.5 | 25179.9 |
| 70°   | 2976.6  | 3621.4  | 4619.7  | 6340.1  | 9755.2  | 15022.3 | 22564.4 | 25019.9 | 25352.7 | 24359.6 |
| 72.5° | 1235.5  | 1444.5  | 1988.7  | 3128.8  | 5599.8  | 10136.9 | 19231.8 | 22208.4 | 22824.9 | 21584.2 |
| 75°   | 833.1   | 902.8   | 1137.5  | 1604.4  | 2551.0  | 4998.8  | 13869.3 | 16559.6 | 17552.7 | 16301.7 |
| 77.5° | 642.3   | 686.1   | 828.0   | 1122.0  | 1516.7  | 1890.7  | 7423.4  | 9979.6  | 10492.9 | 9713.9  |
| 80°   | 505.6   | 539.1   | 619.1   | 817.7   | 1075.6  | 1011.1  | 2530.4  | 4521.6  | 4818.3  | 4041.9  |
| 82.5° | 438.5   | 451.4   | 443.7   | 554.6   | 714.5   | 590.7   | 830.6   | 1668.9  | 1841.7  | 1336.1  |
| 85°   | 317.3   | 353.4   | 368.9   | 343.1   | 379.2   | 299.2   | 340.5   | 590.7   | 650.0   | 580.4   |
| 87.5° | 129.0   | 190.9   | 234.7   | 221.8   | 139.3   | 85.1    | 105.8   | 172.8   | 198.6   | 216.7   |
| 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°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5445.1  | 0°    | 5445.1  | 5445.1  | 5445.1  | 5445.1 | 5445.1 | 5445.1 | 5445.1 | 5445.1 | 5445.1 | 5445.1 |
| 5447.6  | 2.5°  | 5450.2  | 5468.3  | 5481.2  | 5496.7 | 5507.0 | 5522.4 | 5553.4 | 5571.5 | 5574.0 | 5586.9 |
| 5488.9  | 5°    | 5499.2  | 5525.0  | 5553.4  | 5594.7 | 5641.1 | 5679.8 | 5739.1 | 5780.4 | 5795.9 | 5808.8 |
| 5589.5  | 7.5°  | 5605.0  | 5641.1  | 5692.7  | 5764.9 | 5832.0 | 5883.6 | 5955.8 | 6004.8 | 6053.8 | 6071.9 |
| 5749.4  | 10°   | 5762.3  | 5813.9  | 5888.7  | 5986.7 | 6059.0 | 6126.0 | 6200.8 | 6242.1 | 6291.1 | 6311.7 |
| 5940.3  | 12.5° | 5958.4  | 6012.5  | 6110.5  | 6247.2 | 6314.3 | 6360.7 | 6386.5 | 6376.2 | 6386.5 | 6404.6 |
| 6169.9  | 15°   | 6182.8  | 6242.1  | 6353.0  | 6500.0 | 6546.5 | 6505.2 | 6448.4 | 6396.9 | 6389.1 | 6394.3 |
| 6448.4  | 17.5° | 6448.4  | 6492.3  | 6621.3  | 6745.1 | 6711.5 | 6541.3 | 6417.5 | 6334.9 | 6293.7 | 6280.8 |
| 6804.4  | 20°   | 6819.9  | 6819.9  | 6925.6  | 7003.0 | 6778.6 | 6489.7 | 6296.3 | 6162.1 | 6077.0 | 6040.9 |
| 7289.3  | 22.5° | 7271.3  | 7230.0  | 7297.1  | 7242.9 | 6765.7 | 6345.3 | 6077.0 | 5844.9 | 5715.9 | 5664.3 |
| 7967.7  | 25°   | 7843.9  | 7794.9  | 7776.8  | 7441.5 | 6672.8 | 6115.7 | 5679.8 | 5398.6 | 5285.1 | 5256.8 |
| 8945.3  | 27.5° | 8708.0  | 8584.2  | 8349.4  | 7549.8 | 6502.6 | 5754.6 | 5215.5 | 4955.0 | 4890.5 | 4893.1 |
| 10201.4 | 30°   | 9858.4  | 9610.8  | 9035.6  | 7567.9 | 6224.0 | 5243.9 | 4740.9 | 4555.2 | 4524.2 | 4537.1 |
| 11256.4 | 32.5° | 10923.7 | 10688.9 | 9737.1  | 7485.3 | 5795.9 | 4743.5 | 4315.3 | 4191.5 | 4145.1 | 4160.5 |
| 12061.2 | 35°   | 11759.4 | 11694.9 | 10387.1 | 7369.3 | 5269.7 | 4274.0 | 3933.5 | 3827.8 | 3737.5 | 3716.9 |
| 12819.5 | 37.5° | 12548.7 | 12522.9 | 10874.6 | 7206.8 | 4748.6 | 3941.3 | 3626.6 | 3487.3 | 3355.8 | 3283.5 |
| 13657.8 | 40°   | 13415.3 | 13389.5 | 11194.5 | 6956.6 | 4286.9 | 3652.4 | 3350.6 | 3167.5 | 3005.0 | 2873.4 |
| 14607.0 | 42.5° | 14390.3 | 14238.2 | 11346.7 | 6598.0 | 3894.9 | 3407.4 | 3126.2 | 2878.6 | 2664.5 | 2543.3 |
| 15680.0 | 45°   | 15455.6 | 15112.6 | 11344.1 | 6141.5 | 3564.7 | 3182.9 | 2886.3 | 2535.5 | 2336.9 | 2223.4 |
| 16781.4 | 47.5° | 16585.4 | 15948.3 | 11204.8 | 5635.9 | 3244.9 | 2935.3 | 2514.9 | 2246.6 | 2115.1 | 2045.4 |
| 17978.2 | 50°   | 17751.3 | 16729.8 | 10967.5 | 5055.6 | 2917.3 | 2654.2 | 2282.7 | 2099.6 | 1999.0 | 1934.5 |
| 19164.8 | 52.5° | 18847.5 | 17439.2 | 10681.2 | 4397.8 | 2584.5 | 2380.8 | 2179.6 | 2037.7 | 1932.0 | 1859.7 |
| 20315.2 | 55°   | 19866.4 | 18050.5 | 10276.2 | 3724.6 | 2313.7 | 2197.6 | 2130.6 | 2011.9 | 1890.7 | 1805.6 |
| 21483.6 | 57.5° | 20771.7 | 18447.7 | 9577.2  | 3092.7 | 2120.2 | 2071.2 | 2079.0 | 1968.1 | 1828.8 | 1756.6 |
| 22634.0 | 60°   | 21524.9 | 18739.2 | 8542.9  | 2507.2 | 1962.9 | 1947.4 | 1999.0 | 1885.5 | 1723.0 | 1640.5 |
| 23606.4 | 62.5° | 21976.3 | 18734.0 | 7273.8  | 2053.2 | 1828.8 | 1833.9 | 1893.3 | 1782.3 | 1617.3 | 1539.9 |
| 24114.6 | 65°   | 21937.6 | 18274.9 | 5881.0  | 1756.6 | 1699.8 | 1705.0 | 1782.3 | 1668.9 | 1529.6 | 1483.1 |
| 23859.2 | 67.5° | 21161.2 | 17155.4 | 4511.3  | 1563.1 | 1557.9 | 1581.2 | 1671.4 | 1591.5 | 1475.4 | 1470.2 |
| 22337.4 | 70°   | 19059.0 | 14831.4 | 3250.0  | 1408.3 | 1410.9 | 1444.5 | 1563.1 | 1542.5 | 1447.0 | 1457.3 |
| 18780.4 | 72.5° | 15282.8 | 11308.0 | 2182.2  | 1245.8 | 1248.4 | 1302.6 | 1459.9 | 1503.8 | 1418.7 | 1555.4 |
| 13325.1 | 75°   | 10178.2 | 7052.0  | 1403.2  | 1073.0 | 1075.6 | 1145.2 | 1369.6 | 1429.0 | 1341.3 | 1550.2 |
| 6933.4  | 77.5° | 4890.5  | 3170.1  | 1016.3  | 902.8  | 902.8  | 967.3  | 1183.9 | 1279.4 | 1142.7 | 1204.6 |
| 2228.6  | 80°   | 1689.5  | 1191.7  | 799.6   | 727.4  | 711.9  | 755.8  | 998.2  | 1109.1 | 985.3  | 907.9  |
| 727.4   | 82.5° | 665.5   | 619.1   | 642.3   | 564.9  | 513.3  | 541.7  | 776.4  | 915.7  | 724.8  | 655.2  |
| 410.1   | 85°   | 381.7   | 402.4   | 454.0   | 374.0  | 296.6  | 332.7  | 570.0  | 657.7  | 546.8  | 482.3  |
| 134.1   | 87.5° | 103.2   | 141.9   | 208.9   | 193.5  | 134.1  | 141.9  | 270.8  | 363.7  | 314.7  | 242.5  |
| 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°   |
|--------|
| 5445.1 |
| 5584.3 |
| 5806.2 |
| 6074.4 |
| 6322.1 |
| 6409.7 |
| 6412.3 |
| 6298.8 |
| 6033.2 |
| 5656.6 |
| 5261.9 |
| 4900.8 |
| 4581.0 |
| 4181.2 |
| 3732.4 |
| 3286.1 |
| 2886.3 |
| 2551.0 |
| 2218.3 |
| 2030.0 |
| 1911.3 |
| 1828.8 |
| 1772.0 |
| 1710.1 |
| 1604.4 |
| 1516.7 |
| 1480.6 |
| 1478.0 |
| 1454.8 |
| 1576.0 |
| 1563.1 |
| 1104.0 |
| 851.2  |
| 652.6  |
| 492.7  |
| 250.2  |
| 0.0    |