

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: P853225

Luminaire Tested: **GLAN-SB9C-840-U-T4FT**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P853225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9C-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59958 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

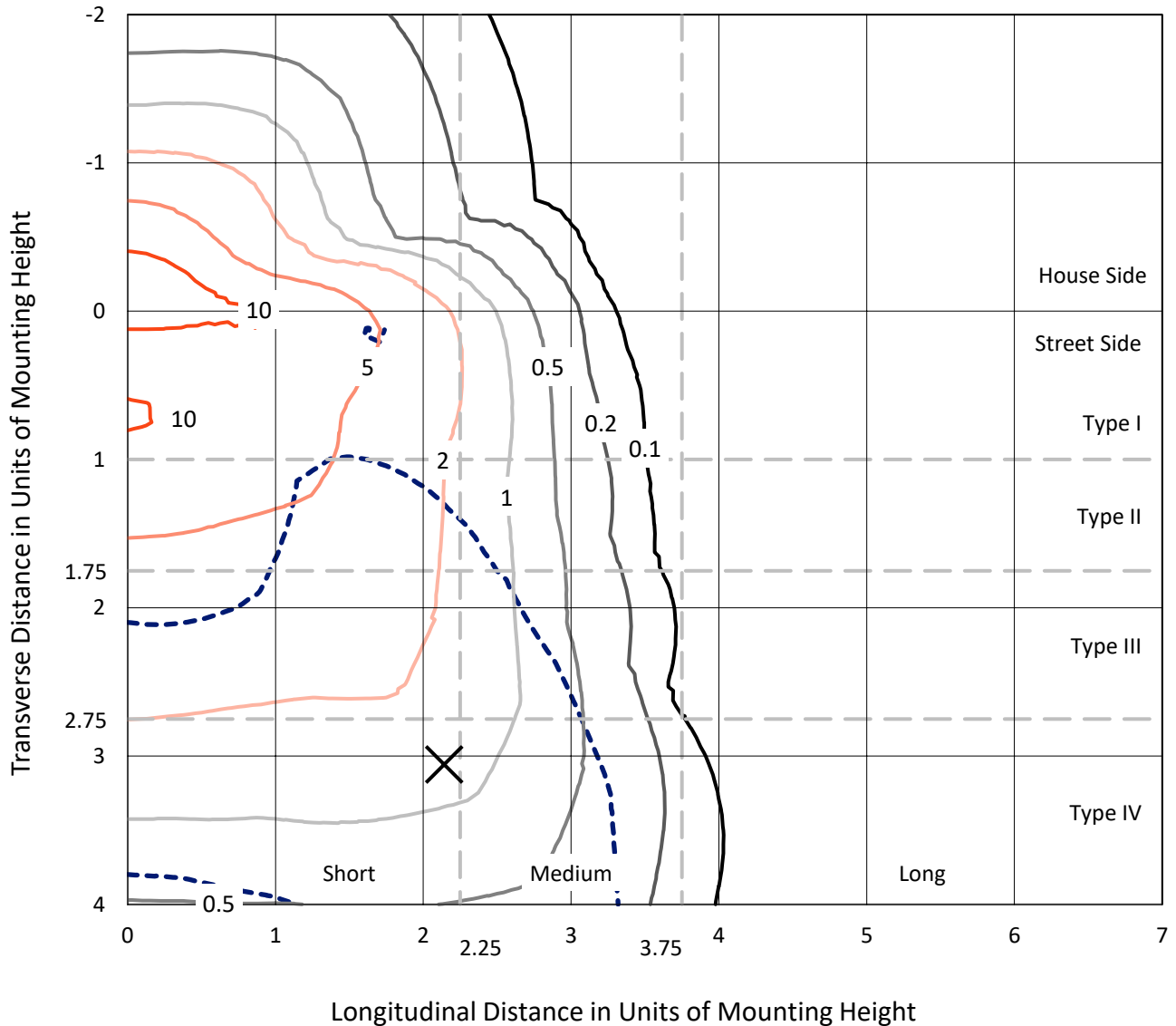
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

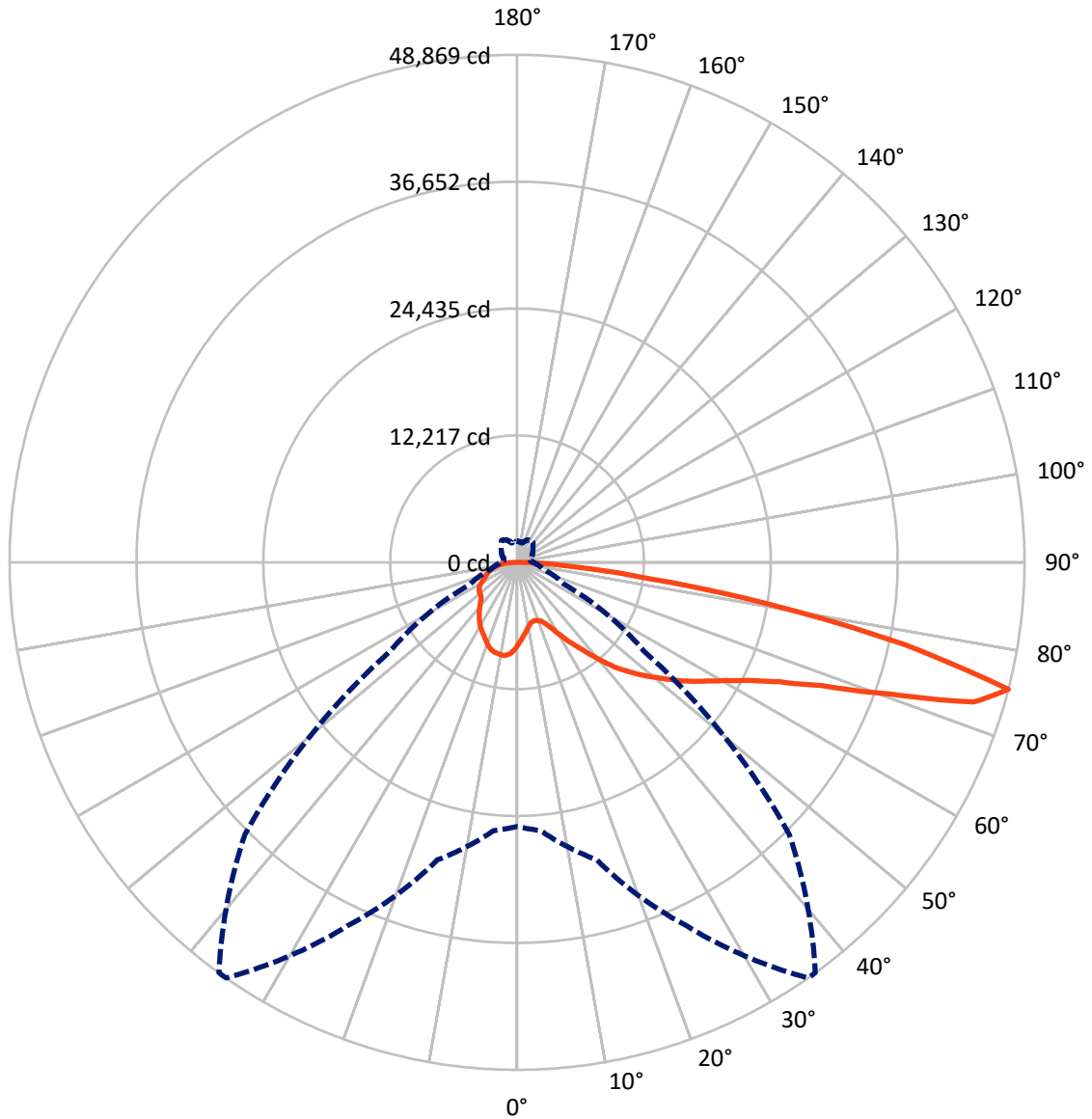
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14268.5  | 0.0    | 14268.5 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 45689.5  | 0.0    | 45689.5 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 59958.0  | 0.0    | 59958.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 756.5   | 1.3       |
| 10°-20°   | 2182.0  | 3.6       |
| 20°-30°   | 3664.1  | 6.1       |
| 30°-40°   | 5694.6  | 9.5       |
| 40°-50°   | 8452.3  | 14.1      |
| 50°-60°   | 11668.9 | 19.5      |
| 60°-70°   | 14157.0 | 23.6      |
| 70°-80°   | 11699.7 | 19.5      |
| 80°-90°   | 1682.8  | 2.8       |
| 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°    | 59958.0 | 100.0     |
| 0°-180°   | 59958.0 | 100.0     |

**Coefficient of Utilization**

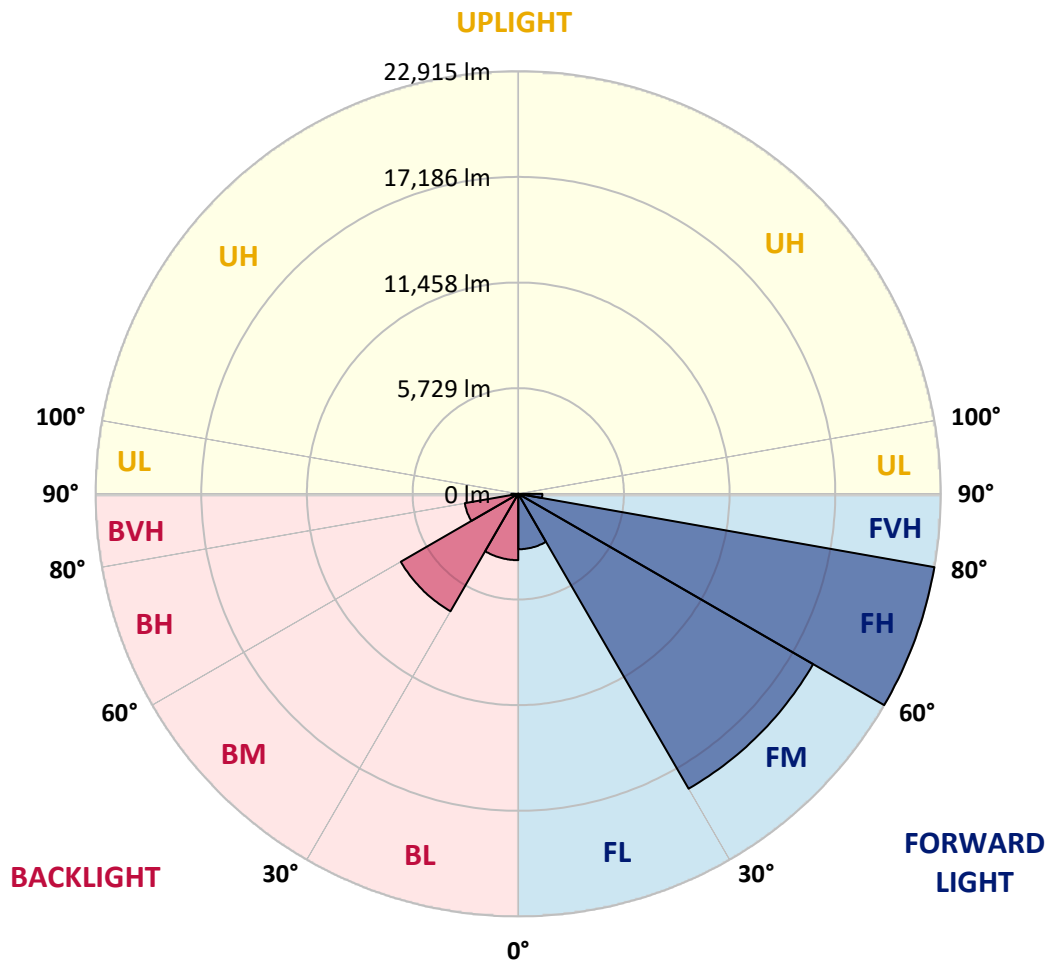


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3006.8  | 5.0       |                         |      |         |
| FM (30°-60°)   | 18463.8 | 30.8      |                         |      |         |
| FH (60°-80°)   | 22915.1 | 38.2      |                         |      | G5      |
| FVH (80°-90°)  | 1303.9  | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 3595.9  | 6.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 7352.0  | 12.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 2941.7  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 378.9   | 0.6       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7989.8  | 7989.8  | 7989.8  | 7989.8  | 7989.8  | 7989.8  | 7989.8  | 7989.8  | 7989.8  | 7989.8  |
| 2.5°  | 7367.5  | 7412.9  | 7432.3  | 7422.6  | 7471.2  | 7464.7  | 7532.8  | 7617.1  | 7733.7  | 7847.2  |
| 5°    | 6800.3  | 6848.9  | 6891.0  | 6929.9  | 7023.9  | 7053.1  | 7160.0  | 7322.1  | 7536.0  | 7753.2  |
| 7.5°  | 6271.9  | 6314.1  | 6378.9  | 6450.2  | 6609.0  | 6638.2  | 6816.5  | 7069.3  | 7367.5  | 7685.1  |
| 10°   | 5840.8  | 5883.0  | 5951.0  | 6032.1  | 6229.8  | 6265.4  | 6492.3  | 6829.4  | 7218.4  | 7620.3  |
| 12.5° | 5656.1  | 5669.0  | 5707.9  | 5789.0  | 5960.8  | 5983.4  | 6233.0  | 6618.7  | 7072.5  | 7571.7  |
| 15°   | 5646.3  | 5672.3  | 5675.5  | 5717.7  | 5860.3  | 5870.0  | 6100.1  | 6482.6  | 6981.8  | 7562.0  |
| 17.5° | 5743.6  | 5763.0  | 5733.9  | 5759.8  | 5879.7  | 5895.9  | 6077.4  | 6417.8  | 6952.6  | 7604.1  |
| 20°   | 6002.9  | 6019.1  | 5931.6  | 5895.9  | 5983.4  | 5996.4  | 6174.7  | 6459.9  | 6981.8  | 7691.6  |
| 22.5° | 6553.9  | 6563.6  | 6349.7  | 6203.9  | 6210.3  | 6216.8  | 6372.4  | 6631.7  | 7095.2  | 7850.4  |
| 25°   | 7412.9  | 7406.4  | 7066.0  | 6784.0  | 6622.0  | 6586.3  | 6690.0  | 6910.5  | 7286.4  | 8061.1  |
| 27.5° | 8417.7  | 8369.0  | 8028.7  | 7607.3  | 7254.0  | 7202.2  | 7179.5  | 7273.5  | 7558.7  | 8339.9  |
| 30°   | 9552.1  | 9506.7  | 9140.5  | 8589.4  | 8100.0  | 8015.7  | 7801.8  | 7753.2  | 7963.9  | 8719.1  |
| 32.5° | 10796.8 | 10767.6 | 10330.0 | 9662.3  | 9007.6  | 8910.3  | 8550.6  | 8420.9  | 8586.2  | 9292.8  |
| 35°   | 11840.5 | 11814.5 | 11451.5 | 10764.4 | 9963.8  | 9843.8  | 9477.6  | 9331.7  | 9416.0  | 10028.6 |
| 37.5° | 12783.7 | 12770.7 | 12459.6 | 11918.3 | 11091.7 | 10945.9 | 10534.2 | 10485.6 | 10469.4 | 10997.7 |
| 40°   | 13658.8 | 13626.4 | 13302.3 | 13017.1 | 12404.5 | 12271.6 | 11908.5 | 11866.4 | 11743.2 | 12190.5 |
| 42.5° | 14628.0 | 14543.7 | 14073.7 | 13940.8 | 13775.5 | 13665.3 | 13448.2 | 13454.6 | 13182.4 | 13535.7 |
| 45°   | 15418.9 | 15370.3 | 14887.3 | 14809.5 | 14987.8 | 14942.4 | 15130.4 | 15179.0 | 14650.7 | 14945.6 |
| 47.5° | 16268.1 | 16222.7 | 15814.3 | 15759.2 | 16242.2 | 16255.1 | 16919.6 | 16935.8 | 16083.3 | 16410.7 |
| 50°   | 17315.0 | 17250.2 | 16845.0 | 16913.1 | 17454.4 | 17503.0 | 18718.5 | 18608.3 | 17402.5 | 17898.5 |
| 52.5° | 18005.4 | 18044.3 | 17956.8 | 18067.0 | 18806.0 | 18851.4 | 20488.3 | 20206.3 | 18708.8 | 19366.8 |
| 55°   | 18514.3 | 18592.1 | 18864.4 | 19117.2 | 20232.2 | 20277.6 | 22157.5 | 21726.4 | 19791.4 | 20728.1 |
| 57.5° | 19169.1 | 19058.9 | 19567.7 | 20060.4 | 21587.1 | 21707.0 | 23781.4 | 23191.5 | 20750.8 | 21901.5 |
| 60°   | 20109.0 | 20031.2 | 20426.7 | 21156.0 | 23104.0 | 23295.2 | 25499.3 | 24510.7 | 21454.2 | 22831.7 |
| 62.5° | 22014.9 | 21820.4 | 21882.0 | 22527.0 | 25016.4 | 25269.2 | 27437.6 | 25661.4 | 21804.2 | 23194.8 |
| 65°   | 24864.0 | 24530.2 | 24219.0 | 24666.3 | 27709.9 | 27959.5 | 29625.5 | 26565.7 | 21674.6 | 22491.4 |
| 67.5° | 28452.1 | 28121.5 | 27739.1 | 28160.4 | 31677.2 | 31875.0 | 32325.5 | 27074.6 | 20653.6 | 19781.7 |
| 70°   | 31411.5 | 31288.3 | 31745.3 | 33479.4 | 38014.0 | 38020.5 | 35787.2 | 26653.2 | 17856.3 | 14025.1 |
| 72.5° | 31019.3 | 30944.7 | 33353.0 | 38714.1 | 46000.6 | 45828.8 | 39064.2 | 23463.8 | 12028.5 | 6327.0  |
| 75°   | 25447.5 | 25930.4 | 29661.2 | 38620.1 | 48869.1 | 48846.4 | 37057.8 | 14916.5 | 4975.4  | 2622.2  |
| 77.5° | 13645.9 | 14410.8 | 19256.6 | 28513.7 | 38150.1 | 38723.8 | 26053.6 | 5218.5  | 2136.0  | 1679.0  |
| 80°   | 4450.3  | 5118.0  | 7675.4  | 14517.8 | 24789.5 | 24682.5 | 11166.3 | 2048.5  | 1461.8  | 1189.6  |
| 82.5° | 1889.7  | 1967.5  | 3429.3  | 6855.4  | 12722.1 | 12524.4 | 3555.7  | 1176.6  | 1027.5  | 813.6   |
| 85°   | 739.0   | 826.5   | 1513.7  | 3170.0  | 5510.2  | 5390.3  | 1283.6  | 583.4   | 658.0   | 531.6   |
| 87.5° | 243.1   | 295.0   | 541.3   | 1085.8  | 1714.6  | 1653.1  | 314.4   | 201.0   | 285.2   | 243.1   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7989.8  | 0°    | 7989.8  | 7989.8  | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 |
| 8012.5  | 2.5°  | 8057.9  | 8109.7  | 8171.3 | 8262.1 | 8339.9 | 8404.7 | 8472.8 | 8514.9 | 8531.1 | 8579.7 |
| 8025.5  | 5°    | 8116.2  | 8229.7  | 8382.0 | 8531.1 | 8677.0 | 8764.5 | 8842.3 | 8881.2 | 8916.8 | 8942.8 |
| 8061.1  | 7.5°  | 8213.5  | 8359.3  | 8599.2 | 8793.7 | 8916.8 | 8988.1 | 9040.0 | 9027.0 | 9040.0 | 9046.5 |
| 8100.0  | 10°   | 8297.7  | 8501.9  | 8787.2 | 8971.9 | 9065.9 | 9069.2 | 9056.2 | 9010.8 | 8988.1 | 8991.4 |
| 8158.4  | 12.5° | 8398.2  | 8625.1  | 8933.0 | 9088.6 | 9114.5 | 9043.2 | 8988.1 | 8910.3 | 8881.2 | 8868.2 |
| 8245.9  | 15°   | 8534.3  | 8793.7  | 9091.9 | 9150.2 | 9085.4 | 8994.6 | 8900.6 | 8774.2 | 8709.4 | 8657.5 |
| 8395.0  | 17.5° | 8699.7  | 8984.9  | 9215.0 | 9172.9 | 9033.5 | 8884.4 | 8732.1 | 8540.8 | 8407.9 | 8352.8 |
| 8599.2  | 20°   | 8929.8  | 9185.8  | 9309.0 | 9124.3 | 8913.6 | 8686.7 | 8427.4 | 8194.0 | 8070.8 | 8015.7 |
| 8858.5  | 22.5° | 9208.5  | 9454.9  | 9399.8 | 9040.0 | 8741.8 | 8378.8 | 8054.6 | 7882.8 | 7821.3 | 7782.4 |
| 9192.3  | 25°   | 9542.4  | 9753.1  | 9464.6 | 8916.8 | 8459.8 | 7970.4 | 7720.8 | 7665.7 | 7636.5 | 7607.3 |
| 9600.7  | 27.5° | 9976.7  | 10090.2 | 9513.2 | 8735.3 | 8019.0 | 7536.0 | 7445.3 | 7455.0 | 7445.3 | 7396.7 |
| 10168.0 | 30°   | 10550.4 | 10527.7 | 9558.6 | 8440.4 | 7513.3 | 7143.8 | 7150.3 | 7192.4 | 7198.9 | 7166.5 |
| 10958.8 | 32.5° | 11305.7 | 11075.5 | 9581.3 | 8057.9 | 7030.4 | 6800.3 | 6806.7 | 6852.1 | 6884.5 | 6829.4 |
| 11992.8 | 35°   | 12219.7 | 11714.1 | 9545.6 | 7578.2 | 6657.6 | 6472.9 | 6424.3 | 6437.2 | 6446.9 | 6395.1 |
| 13247.2 | 37.5° | 13286.1 | 12430.4 | 9386.8 | 7046.6 | 6349.7 | 6152.0 | 6048.3 | 5960.8 | 5908.9 | 5860.3 |
| 14666.9 | 40°   | 14456.2 | 13211.5 | 9095.1 | 6528.0 | 6006.1 | 5811.7 | 5656.1 | 5490.8 | 5315.7 | 5250.9 |
| 16170.9 | 42.5° | 15681.4 | 14015.4 | 8741.8 | 6032.1 | 5610.7 | 5451.9 | 5286.6 | 5046.7 | 4784.2 | 4651.3 |
| 17733.2 | 45°   | 16952.0 | 14838.7 | 8395.0 | 5542.6 | 5205.5 | 5137.5 | 4946.2 | 4657.8 | 4372.5 | 4204.0 |
| 19298.7 | 47.5° | 18196.7 | 15616.6 | 7886.1 | 5049.9 | 4826.3 | 4900.8 | 4751.7 | 4486.0 | 4168.3 | 3902.5 |
| 20851.3 | 50°   | 19386.2 | 16345.9 | 7053.1 | 4550.8 | 4518.4 | 4829.5 | 4686.9 | 4304.4 | 3941.4 | 3601.1 |
| 22374.7 | 52.5° | 20566.1 | 16935.8 | 5986.7 | 4097.0 | 4353.1 | 4810.1 | 4602.6 | 4181.3 | 3737.2 | 3380.7 |
| 23807.4 | 55°   | 21567.6 | 17240.5 | 4959.2 | 3708.0 | 4113.2 | 4644.8 | 4502.2 | 4035.4 | 3448.7 | 3069.5 |
| 24789.5 | 57.5° | 22138.1 | 16994.1 | 4103.5 | 3325.6 | 3782.6 | 4372.5 | 4330.4 | 3724.3 | 3105.2 | 2813.5 |
| 24980.7 | 60°   | 21891.8 | 15995.8 | 3403.4 | 2991.7 | 3468.2 | 4077.6 | 4032.2 | 3416.3 | 2842.6 | 2567.1 |
| 23956.5 | 62.5° | 20533.6 | 14093.2 | 2849.1 | 2700.0 | 3183.0 | 3776.1 | 3734.0 | 3179.7 | 2641.7 | 2375.9 |
| 21237.0 | 65°   | 17798.0 | 11464.5 | 2418.0 | 2456.9 | 2894.5 | 3413.1 | 3474.7 | 2982.0 | 2482.8 | 2223.5 |
| 16430.2 | 67.5° | 13574.6 | 8304.2  | 2080.9 | 2246.2 | 2612.5 | 3056.5 | 3234.8 | 2839.4 | 2349.9 | 2103.6 |
| 9506.7  | 70°   | 7737.0  | 4716.1  | 1795.7 | 2042.0 | 2362.9 | 2725.9 | 3050.1 | 2725.9 | 2207.3 | 2003.1 |
| 3562.2  | 72.5° | 2933.4  | 2165.2  | 1552.6 | 1837.8 | 2123.1 | 2447.2 | 2845.9 | 2547.7 | 2042.0 | 1889.7 |
| 1841.1  | 75°   | 1565.5  | 1319.2  | 1306.2 | 1598.0 | 1847.5 | 2174.9 | 2589.8 | 2372.6 | 1918.9 | 1996.6 |
| 1273.8  | 77.5° | 1066.4  | 933.5   | 1092.3 | 1367.8 | 1546.1 | 1873.5 | 2317.5 | 2106.8 | 1662.8 | 1656.3 |
| 881.6   | 80°   | 739.0   | 661.2   | 888.1  | 1102.0 | 1196.0 | 1575.3 | 2022.6 | 1808.6 | 1354.9 | 1264.1 |
| 544.5   | 82.5° | 444.1   | 431.1   | 664.5  | 823.3  | 846.0  | 1215.5 | 1675.8 | 1516.9 | 1108.5 | 965.9  |
| 324.1   | 85°   | 243.1   | 256.1   | 424.6  | 483.0  | 492.7  | 849.2  | 1312.7 | 1173.4 | 852.5  | 716.3  |
| 116.7   | 87.5° | 68.1    | 87.5    | 155.6  | 191.2  | 236.6  | 440.8  | 781.2  | 696.9  | 427.9  | 298.2  |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END O



| <u>180°</u> |
|-------------|
| 7989.8      |
| 8576.5      |
| 8949.2      |
| 9056.2      |
| 8997.9      |
| 8861.7      |
| 8673.7      |
| 8356.1      |
| 8009.3      |
| 7788.8      |
| 7607.3      |
| 7406.4      |
| 7182.7      |
| 6855.4      |
| 6430.7      |
| 5892.7      |
| 5280.1      |
| 4667.5      |
| 4191.0      |
| 3873.4      |
| 3571.9      |
| 3341.8      |
| 3037.1      |
| 2774.6      |
| 2528.2      |
| 2333.7      |
| 2181.4      |
| 2064.7      |
| 1977.2      |
| 1863.7      |
| 2061.5      |
| 1526.7      |
| 1209.0      |
| 972.4       |
| 722.8       |
| 298.2       |
| 0.0         |

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