

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: P944089

Luminaire Tested: **GLAN-SB8D-840-U-T4FT**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8D-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 77792 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9  
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



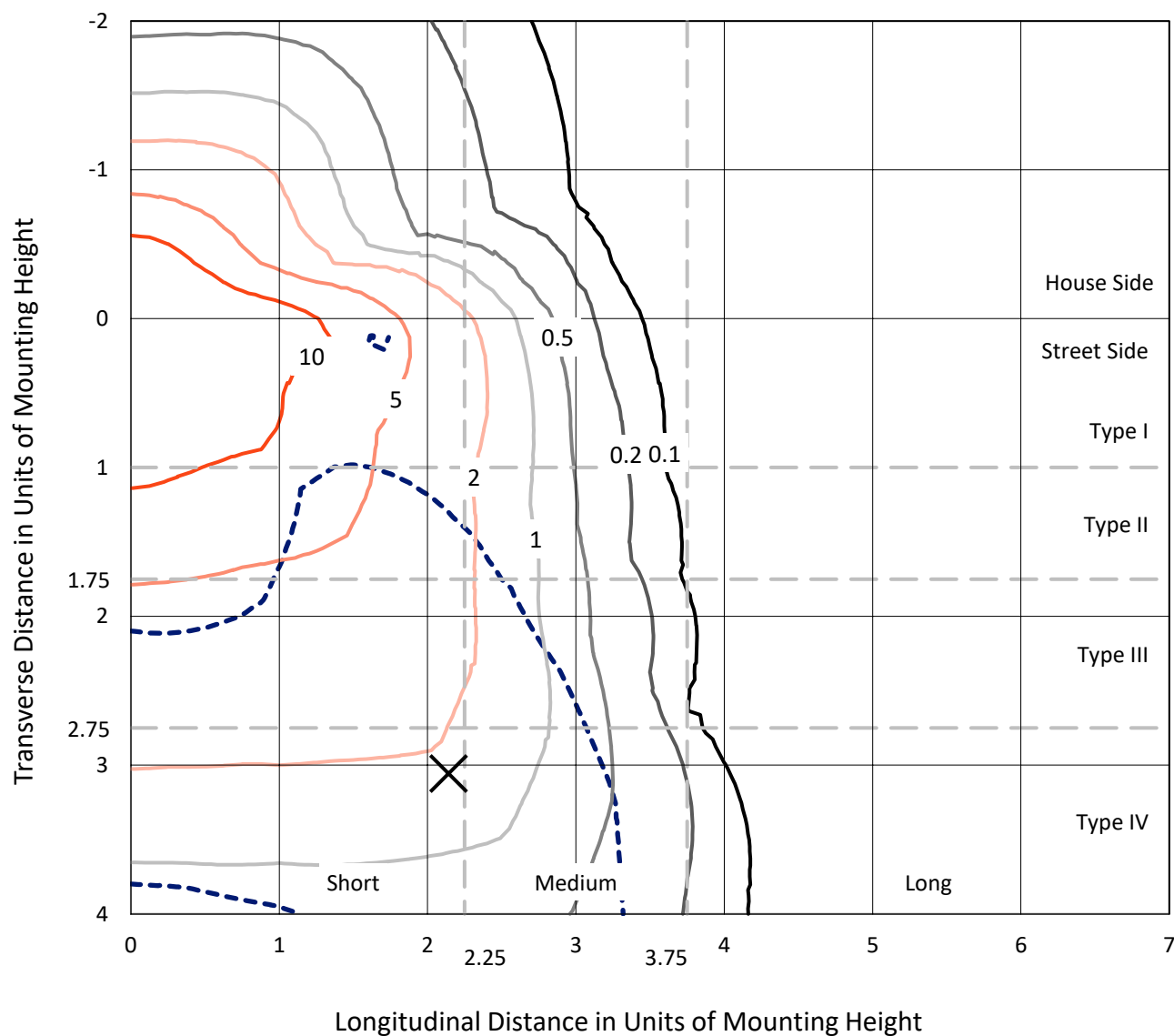
REPORT NUMBER: P944089

CATALOG NUMBER: GLAN-SB8D-840-U-T4FT

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



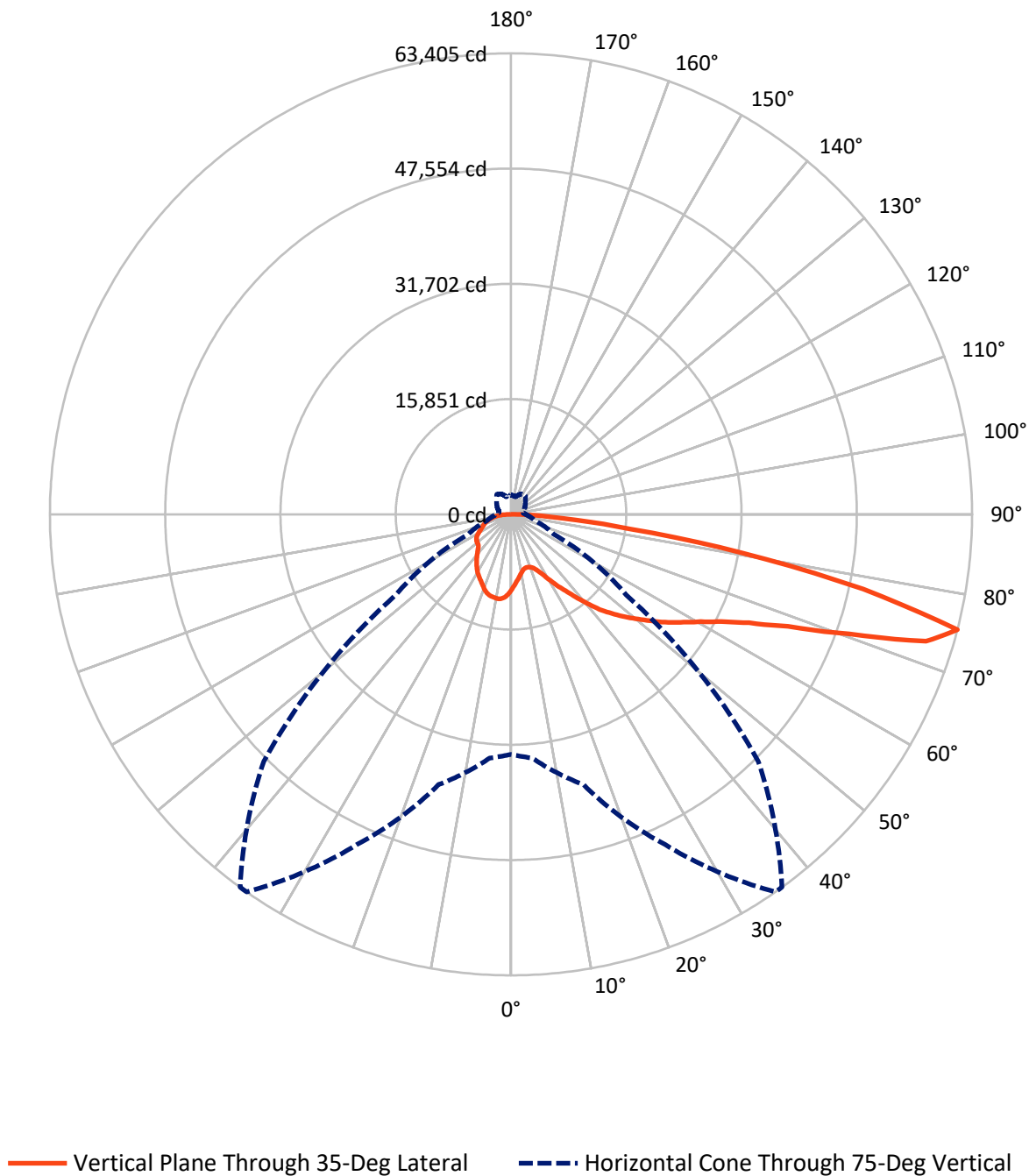
Based on 25 foot mounting height. Maximum calculated value = 18.3 fc

Type IV - Short - N/A

REPORT NUMBER: P944089

CATALOG NUMBER: GLAN-SB8D-840-U-T4FT

## Luminous Intensity Polar Plot



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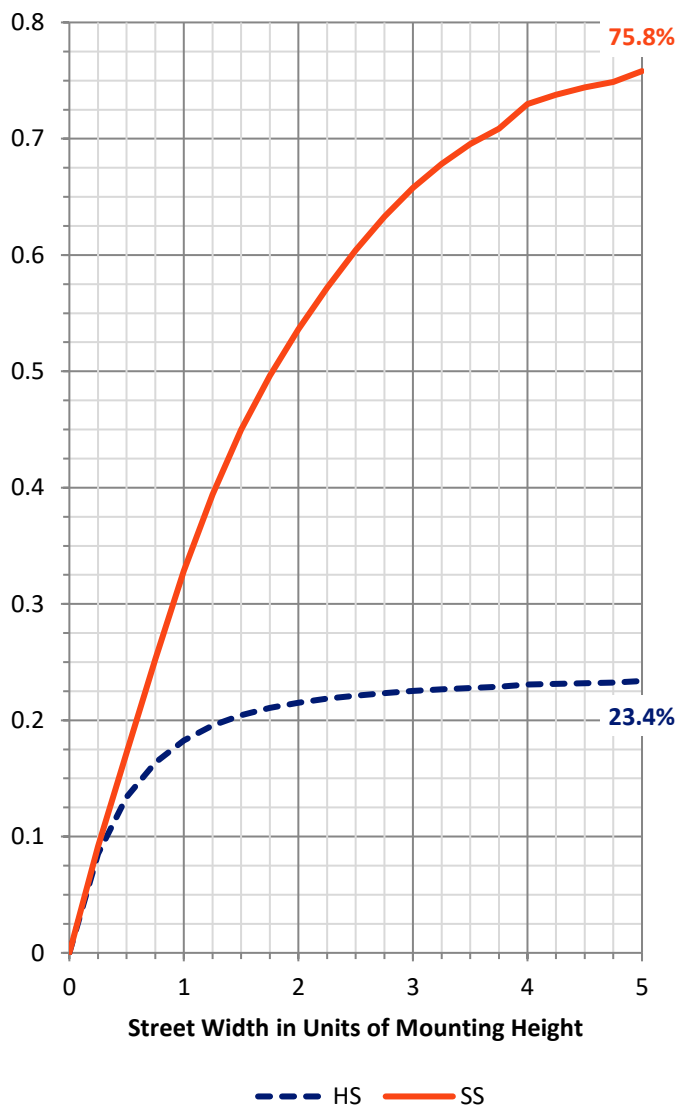
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18512.5  | 0.0    | 18512.5 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 59279.5  | 0.0    | 59279.5 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 77792.0  | 0.0    | 77792.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 981.5   | 1.3       |
| 10°-20°   | 2831.0  | 3.6       |
| 20°-30°   | 4754.0  | 6.1       |
| 30°-40°   | 7388.4  | 9.5       |
| 40°-50°   | 10966.4 | 14.1      |
| 50°-60°   | 15139.7 | 19.5      |
| 60°-70°   | 18367.9 | 23.6      |
| 70°-80°   | 15179.7 | 19.5      |
| 80°-90°   | 2183.3  | 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°    | 77792.0 | 100.0     |
| 0°-180°   | 77792.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P944089

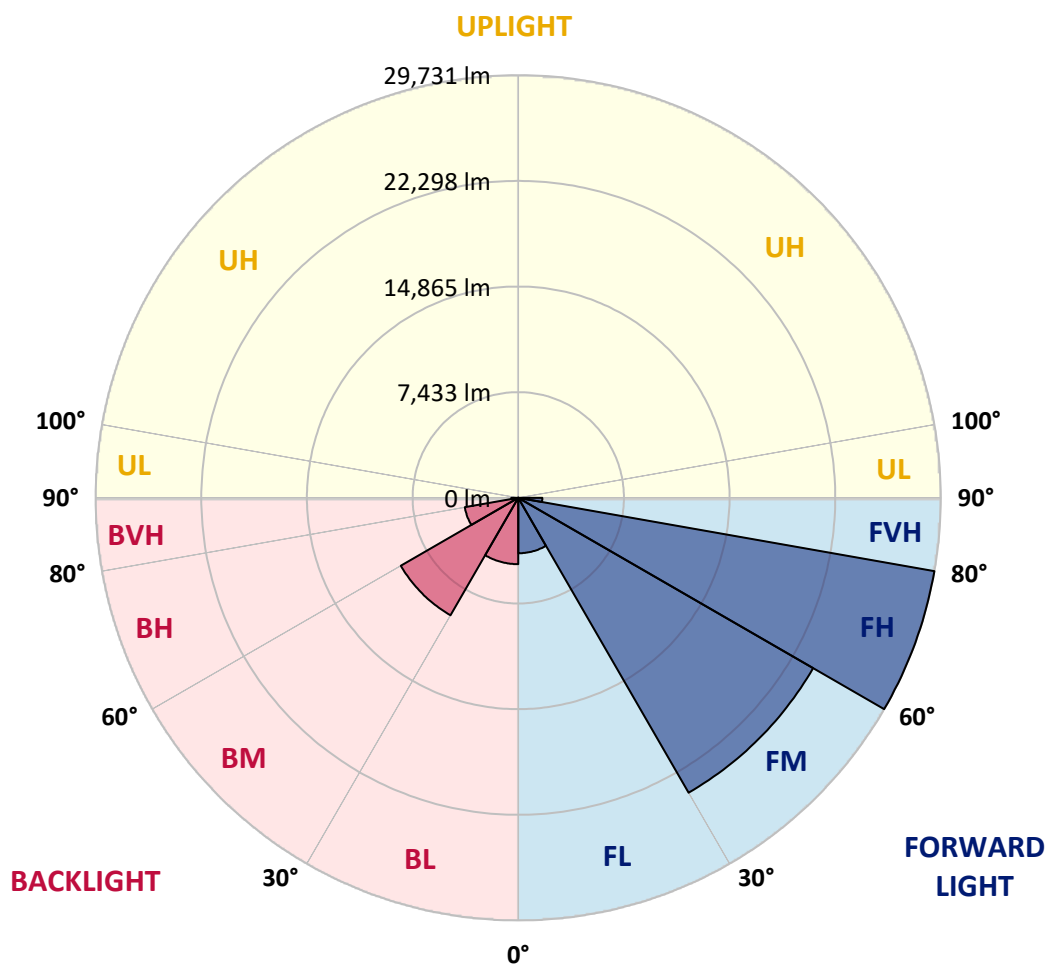
CATALOG NUMBER: GLAN-SB8D-840-U-T4FT

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3901.1  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 23955.7 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 29730.9 | 38.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 1691.7  | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 4665.4  | 6.0       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 9538.8  | 12.3      | B5                      |      |         |
| BH   | (60°-80°)   | 3816.7  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 491.6   | 0.6       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type IV Short



REPORT NUMBER: P944089

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 |
| 2.5°  | 9558.9  | 9617.7  | 9643.0  | 9630.4  | 9693.4  | 9685.0  | 9773.3  | 9882.7  | 10034.1 | 10181.3 |
| 5°    | 8822.9  | 8886.0  | 8940.7  | 8991.1  | 9113.1  | 9150.9  | 9289.7  | 9500.0  | 9777.6  | 10059.3 |
| 7.5°  | 8137.4  | 8192.1  | 8276.2  | 8368.7  | 8574.8  | 8612.7  | 8844.0  | 9172.0  | 9558.9  | 9971.0  |
| 10°   | 7578.1  | 7632.8  | 7721.1  | 7826.2  | 8082.8  | 8129.0  | 8423.4  | 8860.8  | 9365.4  | 9886.9  |
| 12.5° | 7338.4  | 7355.2  | 7405.7  | 7510.8  | 7733.7  | 7763.2  | 8087.0  | 8587.4  | 9176.2  | 9823.8  |
| 15°   | 7325.8  | 7359.4  | 7363.7  | 7418.3  | 7603.4  | 7616.0  | 7914.6  | 8410.8  | 9058.4  | 9811.2  |
| 17.5° | 7452.0  | 7477.2  | 7439.4  | 7473.0  | 7628.6  | 7649.6  | 7885.1  | 8326.7  | 9020.6  | 9865.9  |
| 20°   | 7788.4  | 7809.4  | 7695.9  | 7649.6  | 7763.2  | 7780.0  | 8011.3  | 8381.4  | 9058.4  | 9979.4  |
| 22.5° | 8503.3  | 8515.9  | 8238.4  | 8049.1  | 8057.5  | 8066.0  | 8267.8  | 8604.2  | 9205.6  | 10185.5 |
| 25°   | 9617.7  | 9609.3  | 9167.8  | 8801.9  | 8591.6  | 8545.4  | 8679.9  | 8965.9  | 9453.7  | 10458.8 |
| 27.5° | 10921.4 | 10858.3 | 10416.8 | 9870.1  | 9411.7  | 9344.4  | 9315.0  | 9436.9  | 9807.0  | 10820.5 |
| 30°   | 12393.3 | 12334.4 | 11859.2 | 11144.3 | 10509.3 | 10400.0 | 10122.4 | 10059.3 | 10332.7 | 11312.5 |
| 32.5° | 14008.2 | 13970.3 | 13402.6 | 12536.3 | 11686.8 | 11560.6 | 11093.8 | 10925.6 | 11140.1 | 12056.9 |
| 35°   | 15362.3 | 15328.7 | 14857.7 | 13966.1 | 12927.4 | 12771.8 | 12296.6 | 12107.3 | 12216.7 | 13011.5 |
| 37.5° | 16586.1 | 16569.3 | 16165.6 | 15463.3 | 14390.9 | 14201.6 | 13667.5 | 13604.5 | 13583.4 | 14268.9 |
| 40°   | 17721.6 | 17679.5 | 17259.0 | 16888.9 | 16094.1 | 15921.6 | 15450.6 | 15396.0 | 15236.2 | 15816.5 |
| 42.5° | 18979.0 | 18869.6 | 18259.8 | 18087.4 | 17872.9 | 17730.0 | 17448.2 | 17456.6 | 17103.4 | 17561.7 |
| 45°   | 20005.1 | 19942.0 | 19315.4 | 19214.5 | 19445.8 | 19386.9 | 19630.8 | 19693.9 | 19008.4 | 19391.1 |
| 47.5° | 21106.9 | 21048.0 | 20518.1 | 20446.7 | 21073.3 | 21090.1 | 21952.2 | 21973.2 | 20867.2 | 21291.9 |
| 50°   | 22465.2 | 22381.1 | 21855.5 | 21943.8 | 22646.1 | 22709.2 | 24286.2 | 24143.2 | 22578.8 | 23222.2 |
| 52.5° | 23361.0 | 23411.5 | 23297.9 | 23440.9 | 24399.7 | 24458.6 | 26582.3 | 26216.5 | 24273.6 | 25127.3 |
| 55°   | 24021.2 | 24122.2 | 24475.4 | 24803.4 | 26250.1 | 26309.0 | 28748.1 | 28188.8 | 25678.2 | 26893.5 |
| 57.5° | 24870.7 | 24727.8 | 25388.0 | 26027.2 | 28008.0 | 28163.6 | 30855.0 | 30089.6 | 26923.0 | 28415.9 |
| 60°   | 26090.3 | 25989.4 | 26502.4 | 27448.6 | 29976.1 | 30224.2 | 33083.9 | 31801.2 | 27835.5 | 29622.8 |
| 62.5° | 28563.1 | 28310.8 | 28390.7 | 29227.5 | 32457.3 | 32785.3 | 35598.7 | 33294.1 | 28289.7 | 30093.8 |
| 65°   | 32259.6 | 31826.5 | 31422.7 | 32003.1 | 35952.0 | 36275.8 | 38437.4 | 34467.5 | 28121.5 | 29181.3 |
| 67.5° | 36915.0 | 36486.0 | 35989.8 | 36536.5 | 41099.4 | 41355.9 | 41940.5 | 35127.7 | 26796.8 | 25665.6 |
| 70°   | 40754.5 | 40594.7 | 41187.7 | 43437.6 | 49320.9 | 49329.3 | 46431.8 | 34581.0 | 23167.5 | 18196.8 |
| 72.5° | 40245.7 | 40149.0 | 43273.6 | 50229.3 | 59683.0 | 59460.1 | 50683.5 | 30442.9 | 15606.2 | 8208.9  |
| 75°   | 33016.6 | 33643.2 | 38483.6 | 50107.3 | 63404.8 | 63375.4 | 48080.3 | 19353.2 | 6455.3  | 3402.2  |
| 77.5° | 17704.7 | 18697.2 | 24984.3 | 36994.9 | 49497.6 | 50241.9 | 33803.0 | 6770.7  | 2771.4  | 2178.4  |
| 80°   | 5774.0  | 6640.3  | 9958.4  | 18836.0 | 32162.9 | 32024.1 | 14487.6 | 2657.8  | 1896.6  | 1543.4  |
| 82.5° | 2451.7  | 2552.7  | 4449.3  | 8894.4  | 16506.2 | 16249.7 | 4613.3  | 1526.6  | 1333.1  | 1055.6  |
| 85°   | 958.8   | 1072.4  | 1963.9  | 4112.9  | 7149.2  | 6993.6  | 1665.3  | 757.0   | 853.7   | 689.7   |
| 87.5° | 315.4   | 382.7   | 702.3   | 1408.8  | 2224.7  | 2144.8  | 407.9   | 260.7   | 370.1   | 315.4   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P944089

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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10366.3 | 0°    | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 | 10366.3 |
| 10395.7 | 2.5°  | 10454.6 | 10521.9 | 10601.8 | 10719.6 | 10820.5 | 10904.6 | 10992.9 | 11047.6 | 11068.6 | 11131.7 |
| 10412.6 | 5°    | 10530.3 | 10677.5 | 10875.2 | 11068.6 | 11257.9 | 11371.4 | 11472.3 | 11522.8 | 11569.1 | 11602.7 |
| 10458.8 | 7.5°  | 10656.5 | 10845.7 | 11156.9 | 11409.2 | 11569.1 | 11661.6 | 11728.9 | 11712.0 | 11728.9 | 11737.3 |
| 10509.3 | 10°   | 10765.8 | 11030.8 | 11400.8 | 11640.5 | 11762.5 | 11766.7 | 11749.9 | 11691.0 | 11661.6 | 11665.8 |
| 10585.0 | 12.5° | 10896.2 | 11190.6 | 11590.1 | 11791.9 | 11825.6 | 11733.1 | 11661.6 | 11560.6 | 11522.8 | 11506.0 |
| 10698.5 | 15°   | 11072.8 | 11409.2 | 11796.1 | 11871.8 | 11787.7 | 11670.0 | 11548.0 | 11384.0 | 11299.9 | 11232.6 |
| 10892.0 | 17.5° | 11287.3 | 11657.4 | 11956.0 | 11901.3 | 11720.4 | 11527.0 | 11329.3 | 11081.2 | 10908.8 | 10837.3 |
| 11156.9 | 20°   | 11585.9 | 11918.1 | 12077.9 | 11838.2 | 11564.8 | 11270.5 | 10934.0 | 10631.3 | 10471.4 | 10400.0 |
| 11493.4 | 22.5° | 11947.5 | 12267.2 | 12195.7 | 11728.9 | 11342.0 | 10871.0 | 10450.4 | 10227.5 | 10147.6 | 10097.2 |
| 11926.5 | 25°   | 12380.7 | 12654.0 | 12279.8 | 11569.1 | 10976.1 | 10341.1 | 10017.3 | 9945.8  | 9907.9  | 9870.1  |
| 12456.4 | 27.5° | 12944.2 | 13091.4 | 12342.8 | 11333.6 | 10404.2 | 9777.6  | 9659.8  | 9672.4  | 9659.8  | 9596.7  |
| 13192.3 | 30°   | 13688.6 | 13659.1 | 12401.7 | 10950.9 | 9748.1  | 9268.7  | 9277.1  | 9331.8  | 9340.2  | 9298.1  |
| 14218.5 | 32.5° | 14668.4 | 14369.9 | 12431.2 | 10454.6 | 9121.5  | 8822.9  | 8831.3  | 8890.2  | 8932.3  | 8860.8  |
| 15560.0 | 35°   | 15854.4 | 15198.3 | 12384.9 | 9832.2  | 8637.9  | 8398.2  | 8335.1  | 8351.9  | 8364.5  | 8297.3  |
| 17187.5 | 37.5° | 17237.9 | 16127.7 | 12178.8 | 9142.5  | 8238.4  | 7981.8  | 7847.3  | 7733.7  | 7666.4  | 7603.4  |
| 19029.4 | 40°   | 18756.1 | 17141.2 | 11800.4 | 8469.7  | 7792.6  | 7540.3  | 7338.4  | 7123.9  | 6896.9  | 6812.7  |
| 20980.7 | 42.5° | 20345.7 | 18184.1 | 11342.0 | 7826.2  | 7279.5  | 7073.5  | 6859.0  | 6547.8  | 6207.2  | 6034.7  |
| 23007.7 | 45°   | 21994.2 | 19252.3 | 10892.0 | 7191.2  | 6753.9  | 6665.6  | 6417.4  | 6043.2  | 5673.1  | 5454.4  |
| 25038.9 | 47.5° | 23609.1 | 20261.6 | 10231.7 | 6552.0  | 6261.8  | 6358.6  | 6165.1  | 5820.3  | 5408.1  | 5063.3  |
| 27053.3 | 50°   | 25152.5 | 21207.8 | 9150.9  | 5904.4  | 5862.3  | 6266.0  | 6081.0  | 5584.8  | 5113.8  | 4672.2  |
| 29029.9 | 52.5° | 26683.3 | 21973.2 | 7767.4  | 5315.6  | 5647.9  | 6240.8  | 5971.7  | 5425.0  | 4848.8  | 4386.2  |
| 30888.7 | 55°   | 27982.7 | 22368.5 | 6434.3  | 4811.0  | 5336.7  | 6026.3  | 5841.3  | 5235.7  | 4474.5  | 3982.5  |
| 32162.9 | 57.5° | 28722.9 | 22048.9 | 5324.0  | 4314.7  | 4907.7  | 5673.1  | 5618.4  | 4832.0  | 4028.8  | 3650.3  |
| 32411.0 | 60°   | 28403.3 | 20753.6 | 4415.7  | 3881.6  | 4499.8  | 5290.4  | 5231.5  | 4432.5  | 3688.1  | 3330.7  |
| 31082.1 | 62.5° | 26641.2 | 18285.1 | 3696.5  | 3503.1  | 4129.7  | 4899.3  | 4844.6  | 4125.5  | 3427.4  | 3082.6  |
| 27553.8 | 65°   | 23091.8 | 14874.5 | 3137.2  | 3187.7  | 3755.4  | 4428.3  | 4508.2  | 3869.0  | 3221.3  | 2884.9  |
| 21317.2 | 67.5° | 17612.2 | 10774.2 | 2699.9  | 2914.3  | 3389.6  | 3965.7  | 4197.0  | 3683.9  | 3048.9  | 2729.3  |
| 12334.4 | 70°   | 10038.3 | 6118.9  | 2329.8  | 2649.4  | 3065.7  | 3536.7  | 3957.3  | 3536.7  | 2863.9  | 2598.9  |
| 4621.7  | 72.5° | 3805.9  | 2809.2  | 2014.4  | 2384.5  | 2754.5  | 3175.1  | 3692.3  | 3305.4  | 2649.4  | 2451.7  |
| 2388.7  | 75°   | 2031.2  | 1711.6  | 1694.8  | 2073.3  | 2397.1  | 2821.8  | 3360.1  | 3078.4  | 2489.6  | 2590.5  |
| 1652.7  | 77.5° | 1383.6  | 1211.2  | 1417.2  | 1774.7  | 2006.0  | 2430.7  | 3006.9  | 2733.5  | 2157.4  | 2149.0  |
| 1143.9  | 80°   | 958.8   | 857.9   | 1152.3  | 1429.8  | 1551.8  | 2043.8  | 2624.2  | 2346.6  | 1757.9  | 1640.1  |
| 706.5   | 82.5° | 576.1   | 559.3   | 862.1   | 1068.2  | 1097.6  | 1577.0  | 2174.2  | 1968.1  | 1438.2  | 1253.2  |
| 420.5   | 85°   | 315.4   | 332.2   | 550.9   | 626.6   | 639.2   | 1101.8  | 1703.2  | 1522.4  | 1106.0  | 929.4   |
| 151.4   | 87.5° | 88.3    | 113.5   | 201.9   | 248.1   | 307.0   | 571.9   | 1013.5  | 904.2   | 555.1   | 386.9   |
| 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°    |
|---------|
| 10366.3 |
| 11127.5 |
| 11611.1 |
| 11749.9 |
| 11674.2 |
| 11497.6 |
| 11253.6 |
| 10841.5 |
| 10391.5 |
| 10105.6 |
| 9870.1  |
| 9609.3  |
| 9319.2  |
| 8894.4  |
| 8343.5  |
| 7645.4  |
| 6850.6  |
| 6055.8  |
| 5437.6  |
| 5025.5  |
| 4634.4  |
| 4335.8  |
| 3940.5  |
| 3599.8  |
| 3280.2  |
| 3027.9  |
| 2830.2  |
| 2678.8  |
| 2565.3  |
| 2418.1  |
| 2674.6  |
| 1980.7  |
| 1568.6  |
| 1261.6  |
| 937.8   |
| 386.9   |
| 0.0     |