

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: P456074

Luminaire Tested: **GLAN-SA7B-740-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39546 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

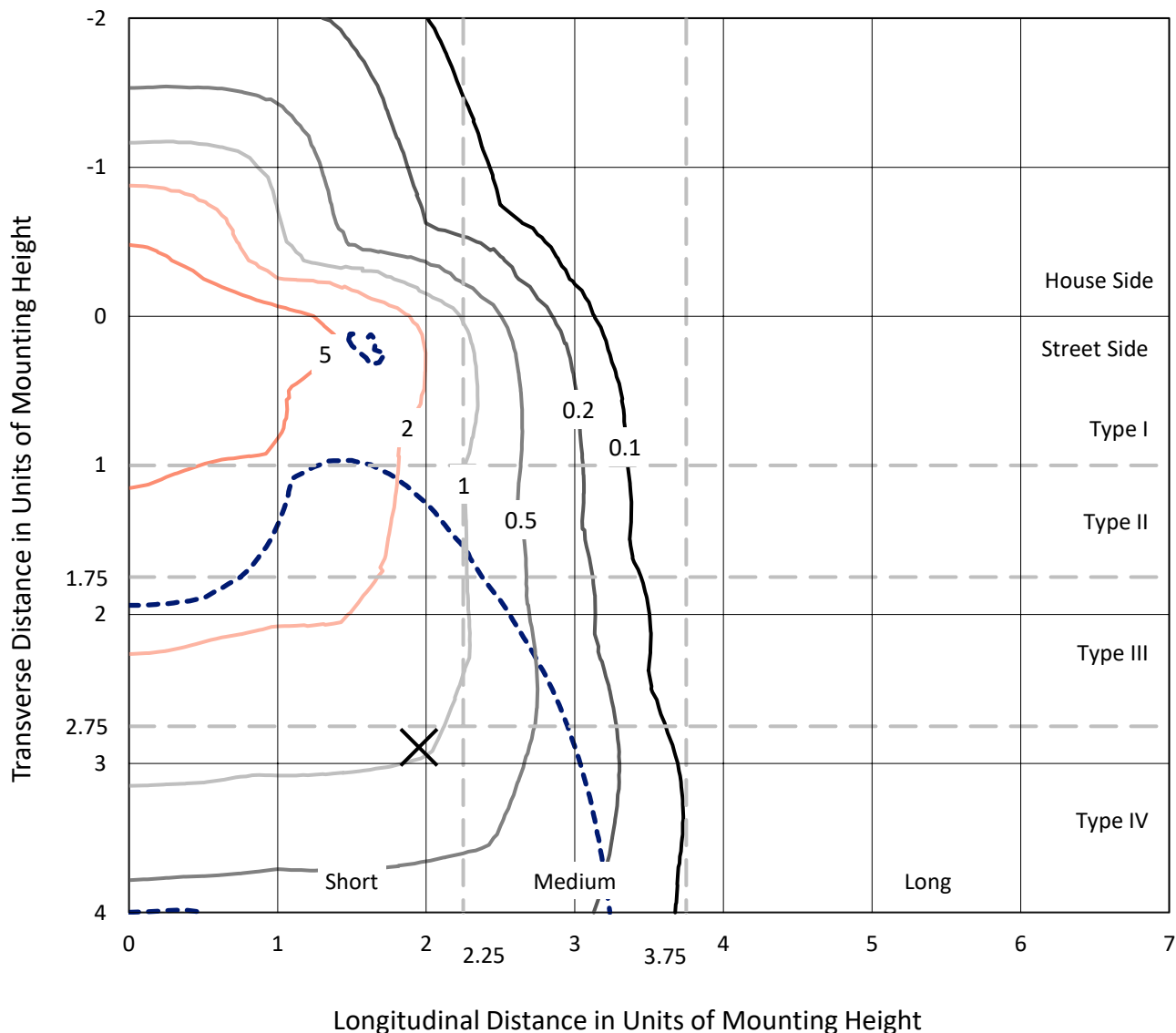
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

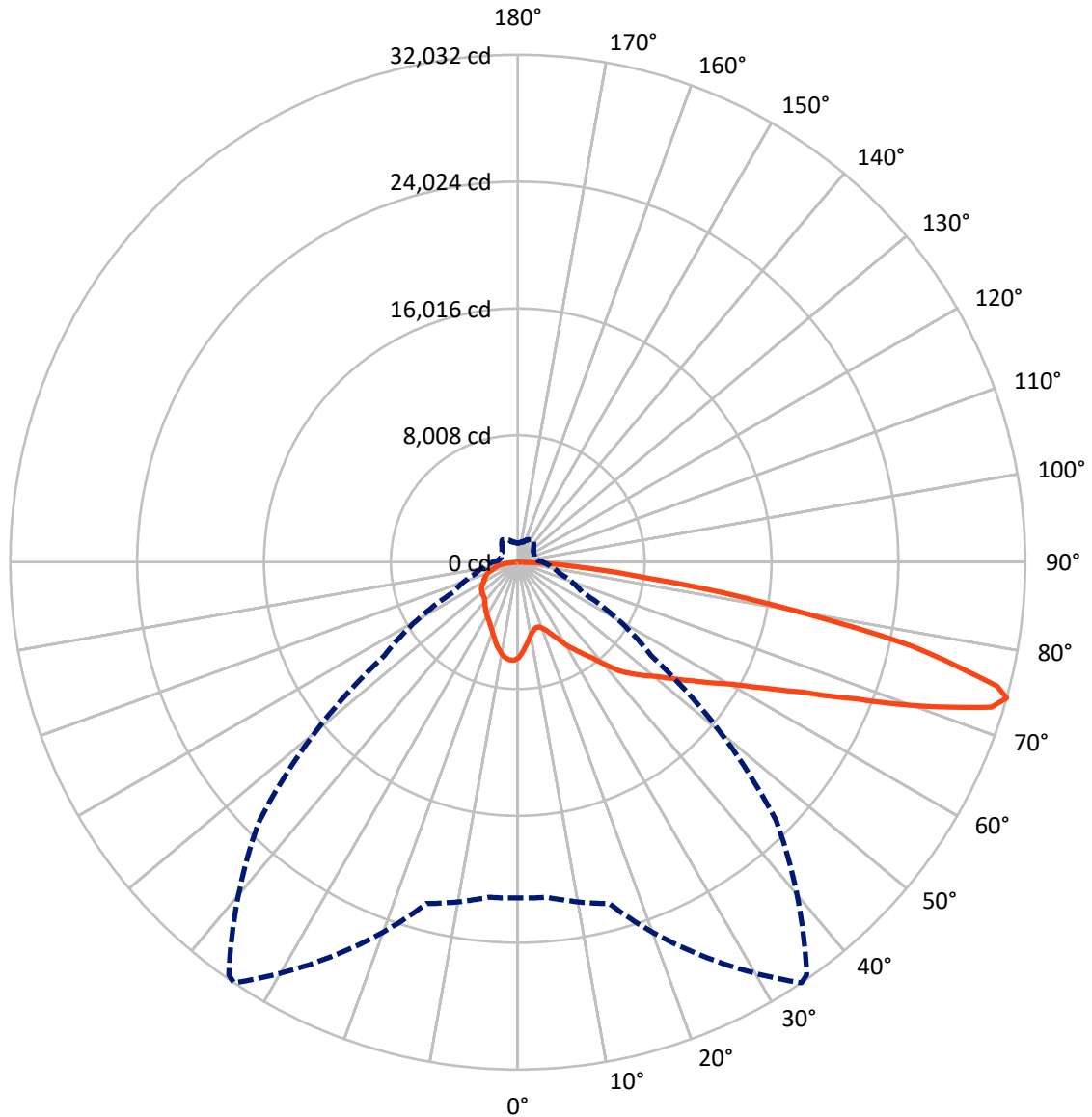
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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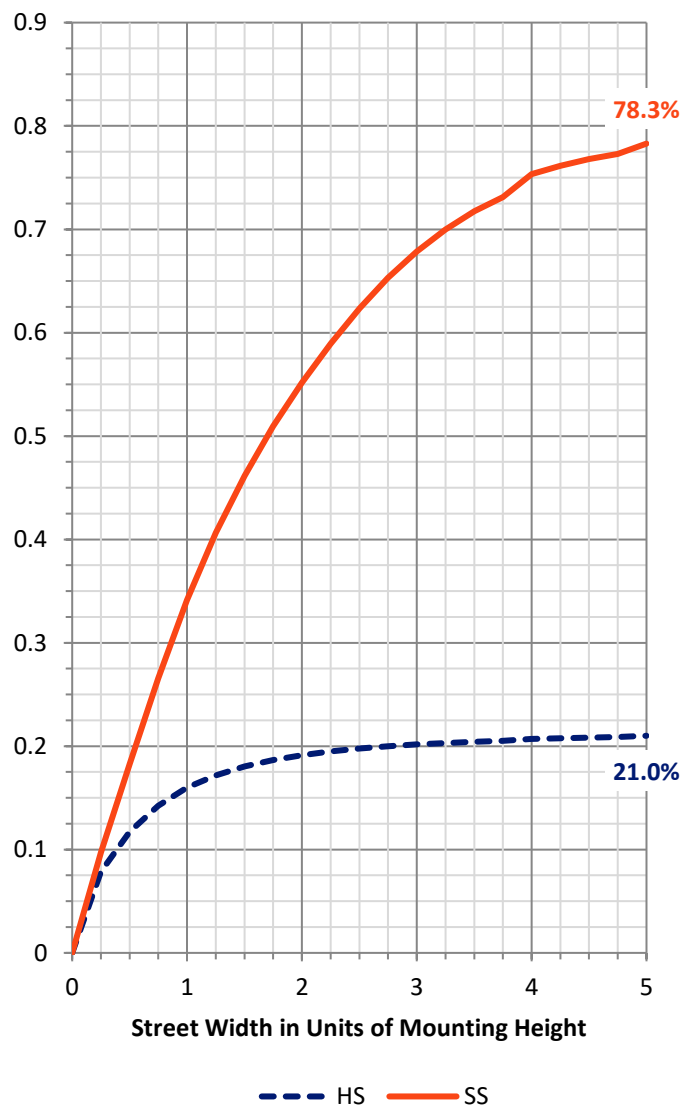
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8415.7   | 0.0    | 8415.7  |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 31130.3  | 0.0    | 31130.3 |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 39546.0  | 0.0    | 39546.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 549.1   | 1.4       |
| 10°-20°   | 1503.2  | 3.8       |
| 20°-30°   | 2478.4  | 6.3       |
| 30°-40°   | 3712.3  | 9.4       |
| 40°-50°   | 5396.7  | 13.6      |
| 50°-60°   | 7537.9  | 19.1      |
| 60°-70°   | 9437.1  | 23.9      |
| 70°-80°   | 7803.7  | 19.7      |
| 80°-90°   | 1127.6  | 2.9       |
| 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°    | 39546.0 | 100.0     |
| 0°-180°   | 39546.0 | 100.0     |

**Coefficient of Utilization**



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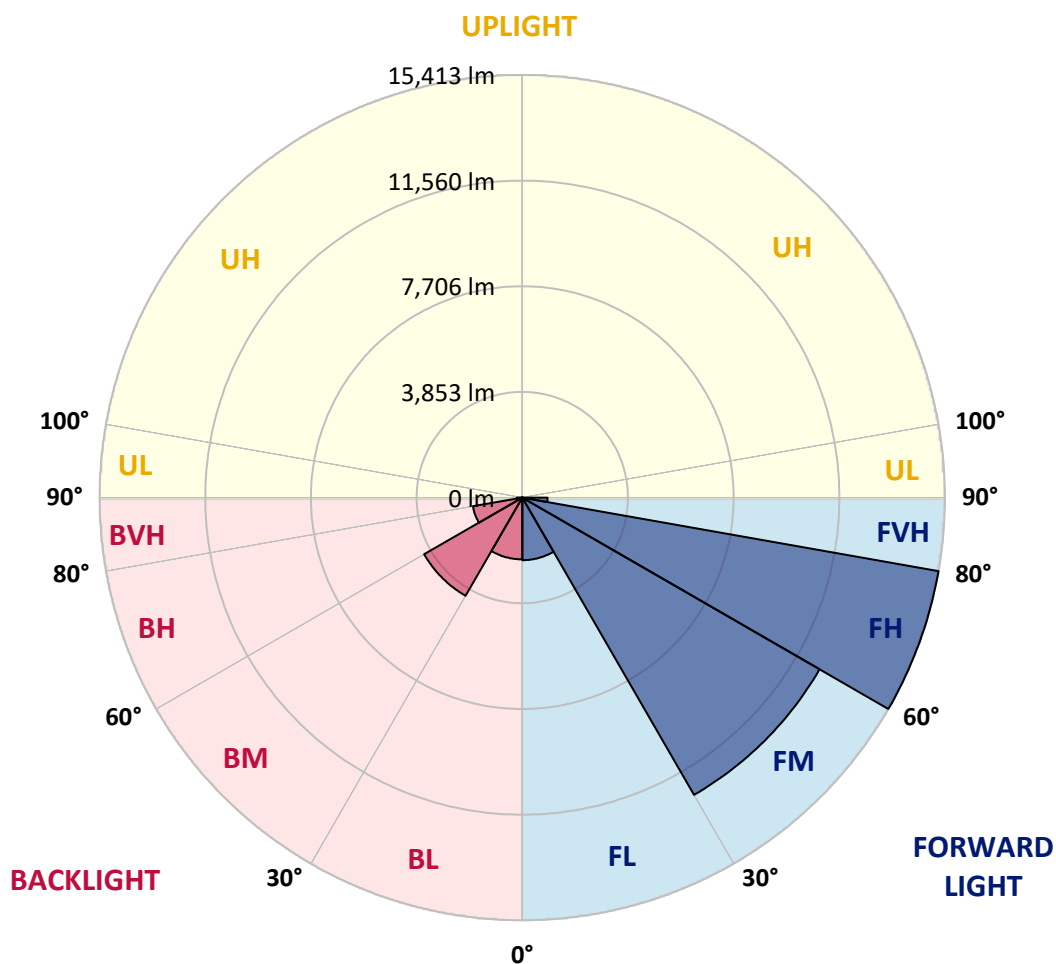
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2279.6  | 5.8       |                         |      |         |
| FM (30°-60°)   | 12514.0 | 31.6      |                         |      |         |
| FH (60°-80°)   | 15412.9 | 39.0      |                         |      | G5      |
| FVH (80°-90°)  | 923.8   | 2.3       |                         |      | G5      |
| BL (0°-30°)    | 2251.1  | 5.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 4133.0  | 10.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 1827.8  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 203.8   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6037.9  | 6037.9  | 6037.9  | 6037.9  | 6037.9  | 6037.9  | 6037.9  | 6037.9  | 6037.9  | 6037.9  | 6037.9  |
| 2.5°  | 5580.0  | 5608.5  | 5623.8  | 5678.6  | 5691.7  | 5709.3  | 5755.3  | 5816.6  | 5895.5  | 5965.6  | 6026.9  |
| 5°    | 5115.6  | 5159.4  | 5185.7  | 5233.9  | 5328.1  | 5336.8  | 5459.5  | 5599.7  | 5759.7  | 5908.6  | 6031.3  |
| 7.5°  | 4675.2  | 4723.4  | 4745.3  | 4832.9  | 4957.8  | 4977.5  | 5157.2  | 5378.5  | 5645.7  | 5871.4  | 6059.8  |
| 10°   | 4344.4  | 4368.5  | 4416.7  | 4482.4  | 4631.4  | 4644.5  | 4878.9  | 5174.7  | 5520.9  | 5853.9  | 6108.0  |
| 12.5° | 4164.7  | 4177.9  | 4188.8  | 4258.9  | 4405.7  | 4425.5  | 4670.8  | 5006.0  | 5422.3  | 5867.0  | 6186.9  |
| 15°   | 4191.0  | 4195.4  | 4147.2  | 4160.4  | 4278.7  | 4307.1  | 4550.3  | 4894.3  | 5360.9  | 5899.9  | 6305.2  |
| 17.5° | 4412.3  | 4397.0  | 4278.7  | 4217.3  | 4300.6  | 4313.7  | 4526.2  | 4850.5  | 5332.4  | 5961.2  | 6427.9  |
| 20°   | 4760.6  | 4738.7  | 4535.0  | 4399.2  | 4447.4  | 4458.3  | 4605.1  | 4883.3  | 5360.9  | 6062.0  | 6618.5  |
| 22.5° | 5194.4  | 5185.7  | 4876.8  | 4712.4  | 4710.3  | 4710.3  | 4786.9  | 5001.6  | 5446.4  | 6200.0  | 6817.8  |
| 25°   | 5801.3  | 5755.3  | 5352.2  | 5139.7  | 5080.5  | 5076.1  | 5067.4  | 5196.6  | 5555.9  | 6346.8  | 7054.4  |
| 27.5° | 6423.5  | 6344.6  | 5985.3  | 5658.9  | 5531.8  | 5516.5  | 5459.5  | 5472.7  | 5696.1  | 6513.3  | 7323.9  |
| 30°   | 6982.1  | 6931.7  | 6594.4  | 6232.9  | 6081.7  | 6046.7  | 5888.9  | 5816.6  | 5930.5  | 6813.4  | 7753.3  |
| 32.5° | 7409.3  | 7378.7  | 7115.8  | 6787.2  | 6563.7  | 6557.1  | 6327.1  | 6267.9  | 6296.4  | 7177.1  | 8244.0  |
| 35°   | 7755.5  | 7766.4  | 7632.8  | 7348.0  | 7091.7  | 7054.4  | 6901.1  | 6826.6  | 6743.3  | 7702.9  | 8861.9  |
| 37.5° | 8228.7  | 8252.8  | 8244.0  | 7998.7  | 7685.4  | 7694.1  | 7659.1  | 7536.4  | 7315.1  | 8290.1  | 9547.6  |
| 40°   | 8750.1  | 8767.7  | 8765.5  | 8671.3  | 8506.9  | 8515.7  | 8502.6  | 8362.3  | 8031.5  | 9037.1  | 10310.0 |
| 42.5° | 9470.9  | 9387.7  | 9170.8  | 9265.0  | 9361.4  | 9403.0  | 9492.8  | 9359.2  | 8905.7  | 9834.6  | 11026.4 |
| 45°   | 10277.1 | 10119.4 | 9628.6  | 9672.5  | 10029.6 | 10108.4 | 10603.6 | 10419.5 | 9854.3  | 10750.3 | 11869.8 |
| 47.5° | 10785.4 | 10629.8 | 10215.8 | 10207.0 | 10680.2 | 10756.9 | 11633.2 | 11565.3 | 10717.5 | 11738.4 | 12899.5 |
| 50°   | 11238.9 | 11217.0 | 10750.3 | 10862.1 | 11324.3 | 11438.3 | 12754.9 | 12691.4 | 11578.5 | 12903.9 | 14021.2 |
| 52.5° | 11911.5 | 11734.0 | 11361.6 | 11591.6 | 12202.9 | 12351.8 | 13867.9 | 13681.7 | 12369.4 | 13933.6 | 15110.1 |
| 55°   | 12213.8 | 12172.2 | 12150.3 | 12349.6 | 13188.7 | 13296.1 | 14950.1 | 14522.9 | 13044.1 | 14805.5 | 15938.2 |
| 57.5° | 13022.2 | 12945.5 | 13162.4 | 13298.3 | 14349.9 | 14514.2 | 16080.6 | 15401.4 | 13635.6 | 15497.8 | 16341.3 |
| 60°   | 14069.4 | 14027.8 | 14227.2 | 14472.5 | 15646.8 | 15896.6 | 17368.8 | 16150.7 | 14111.1 | 15846.2 | 16120.0 |
| 62.5° | 15633.7 | 15629.3 | 15592.0 | 16117.8 | 17484.9 | 17714.9 | 18847.6 | 16880.2 | 14185.5 | 15585.5 | 14976.4 |
| 65°   | 17877.1 | 17798.2 | 17474.0 | 18048.0 | 19772.1 | 20041.6 | 20387.7 | 17287.7 | 13736.4 | 14246.9 | 12610.3 |
| 67.5° | 20223.4 | 20219.1 | 19956.2 | 20701.0 | 23056.2 | 23334.4 | 22313.5 | 17197.9 | 12489.8 | 11541.2 | 8956.1  |
| 70°   | 22168.9 | 22074.7 | 22409.9 | 24394.7 | 27251.6 | 27573.6 | 23998.2 | 16139.7 | 9948.5  | 7621.9  | 5321.5  |
| 72.5° | 22635.5 | 22639.9 | 23336.6 | 27242.8 | 31280.5 | 31330.9 | 24605.1 | 13081.4 | 6657.9  | 4204.2  | 2661.8  |
| 74°   | 21198.3 | 21235.6 | 22315.7 | 27385.2 | 32031.9 | 31804.1 | 23054.0 | 10281.5 | 4502.1  | 2745.1  | 1919.2  |
| 75°   | 19349.3 | 19114.9 | 20676.9 | 26436.6 | 31252.0 | 31006.6 | 21237.8 | 8250.6  | 3435.2  | 2193.0  | 1680.4  |
| 77.5° | 10345.0 | 10583.8 | 12993.7 | 19728.3 | 25389.4 | 25106.8 | 14400.2 | 3956.6  | 1855.6  | 1527.0  | 1209.3  |
| 80°   | 3682.8  | 4061.8  | 5709.3  | 10323.1 | 16277.8 | 16365.4 | 6872.6  | 1814.0  | 1305.7  | 1126.1  | 854.4   |
| 82.5° | 1502.9  | 1544.5  | 2451.5  | 4581.0  | 8266.0  | 8344.8  | 2806.4  | 1077.9  | 933.3   | 775.5   | 510.5   |
| 85°   | 587.1   | 604.7   | 1084.5  | 2059.4  | 3527.2  | 3757.3  | 970.5   | 569.6   | 574.0   | 444.7   | 260.7   |
| 87.5° | 197.2   | 223.5   | 444.7   | 685.7   | 1198.4  | 1174.3  | 282.6   | 168.7   | 205.9   | 192.8   | 81.1    |
| 90°   | 0.0     | 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6037.9  | 6037.9 | 6037.9 | 6037.9 | 6037.9 | 6037.9 | 6037.9 | 6037.9 | 6037.9 | 6037.9 | 6037.9 |
| 2.5°  | 6057.6  | 6099.2 | 6127.7 | 6158.4 | 6186.9 | 6195.6 | 6189.1 | 6208.8 | 6211.0 | 6213.2 | 6215.3 |
| 5°    | 6092.7  | 6149.6 | 6204.4 | 6235.1 | 6248.2 | 6237.3 | 6200.0 | 6180.3 | 6162.8 | 6149.6 | 6154.0 |
| 7.5°  | 6140.9  | 6221.9 | 6272.3 | 6285.5 | 6250.4 | 6200.0 | 6108.0 | 6035.7 | 5989.7 | 5959.0 | 5956.8 |
| 10°   | 6215.3  | 6294.2 | 6335.8 | 6298.6 | 6202.2 | 6079.5 | 5934.9 | 5799.1 | 5696.1 | 5665.5 | 5663.3 |
| 12.5° | 6309.6  | 6399.4 | 6397.2 | 6287.6 | 6119.0 | 5899.9 | 5665.5 | 5507.7 | 5367.5 | 5297.4 | 5325.9 |
| 15°   | 6432.2  | 6500.2 | 6436.6 | 6239.4 | 5972.2 | 5672.0 | 5382.8 | 5168.1 | 5010.4 | 4935.9 | 4940.3 |
| 17.5° | 6574.6  | 6633.8 | 6465.1 | 6154.0 | 5766.2 | 5380.6 | 5045.5 | 4841.7 | 4716.8 | 4662.1 | 4657.7 |
| 20°   | 6752.1  | 6769.6 | 6465.1 | 6005.0 | 5501.1 | 5041.1 | 4721.2 | 4578.8 | 4508.7 | 4480.2 | 4489.0 |
| 22.5° | 6942.7  | 6907.6 | 6430.0 | 5794.7 | 5152.8 | 4686.2 | 4471.5 | 4407.9 | 4372.9 | 4368.5 | 4372.9 |
| 25°   | 7157.4  | 7058.8 | 6357.8 | 5509.9 | 4789.1 | 4379.4 | 4254.6 | 4265.5 | 4272.1 | 4272.1 | 4287.4 |
| 27.5° | 7420.3  | 7223.1 | 6237.3 | 5150.6 | 4364.1 | 4094.6 | 4059.6 | 4136.3 | 4171.3 | 4177.9 | 4188.8 |
| 30°   | 7766.4  | 7402.8 | 6037.9 | 4701.5 | 4002.6 | 3838.3 | 3899.7 | 4002.6 | 4042.1 | 4066.2 | 4061.8 |
| 32.5° | 8178.3  | 7599.9 | 5768.4 | 4252.4 | 3711.2 | 3658.7 | 3733.2 | 3838.3 | 3882.1 | 3895.3 | 3877.7 |
| 35°   | 8662.5  | 7823.4 | 5413.5 | 3831.7 | 3457.1 | 3487.8 | 3575.4 | 3608.3 | 3647.7 | 3647.7 | 3656.5 |
| 37.5° | 9183.9  | 8003.1 | 4979.7 | 3446.2 | 3259.9 | 3371.7 | 3435.2 | 3404.5 | 3387.0 | 3365.1 | 3376.0 |
| 40°   | 9714.1  | 8136.7 | 4416.7 | 3065.0 | 3062.8 | 3251.2 | 3268.7 | 3181.1 | 3111.0 | 3089.1 | 3078.1 |
| 42.5° | 10176.3 | 8219.9 | 3908.4 | 2769.2 | 2876.5 | 3132.9 | 3146.0 | 3005.8 | 2894.1 | 2828.3 | 2806.4 |
| 45°   | 10721.9 | 8316.3 | 3411.1 | 2523.8 | 2703.5 | 3038.7 | 3071.5 | 2883.1 | 2718.8 | 2580.8 | 2545.7 |
| 47.5° | 11468.9 | 8535.4 | 3018.9 | 2333.2 | 2578.6 | 2979.5 | 3025.5 | 2782.3 | 2565.4 | 2385.8 | 2357.3 |
| 50°   | 12312.4 | 8835.6 | 2714.4 | 2204.0 | 2482.2 | 2926.9 | 2983.9 | 2679.4 | 2423.0 | 2223.7 | 2201.8 |
| 52.5° | 13085.8 | 8997.7 | 2451.5 | 2087.8 | 2388.0 | 2830.5 | 2929.1 | 2604.9 | 2282.8 | 2061.6 | 2041.8 |
| 55°   | 13508.6 | 8734.8 | 2193.0 | 1973.9 | 2258.7 | 2705.7 | 2852.4 | 2501.9 | 2147.0 | 1976.1 | 1947.6 |
| 57.5° | 13565.5 | 8191.5 | 1958.6 | 1851.2 | 2122.9 | 2552.3 | 2710.0 | 2377.0 | 2059.4 | 1917.0 | 1892.9 |
| 60°   | 13125.2 | 7380.9 | 1776.8 | 1750.5 | 1984.9 | 2379.2 | 2550.1 | 2267.5 | 1969.5 | 1851.2 | 1827.1 |
| 62.5° | 12029.8 | 6500.2 | 1649.7 | 1658.4 | 1844.7 | 2197.4 | 2431.8 | 2162.3 | 1884.1 | 1778.9 | 1757.0 |
| 65°   | 10145.7 | 5365.3 | 1527.0 | 1564.2 | 1719.8 | 2055.0 | 2324.5 | 2074.7 | 1798.7 | 1724.2 | 1704.5 |
| 67.5° | 7047.9  | 3873.4 | 1426.2 | 1465.7 | 1601.5 | 1910.4 | 2199.6 | 1980.5 | 1702.3 | 1662.8 | 1632.2 |
| 70°   | 3901.8  | 2383.6 | 1307.9 | 1353.9 | 1478.8 | 1748.3 | 2059.4 | 1838.1 | 1562.1 | 1544.5 | 1500.7 |
| 72.5° | 2050.6  | 1518.2 | 1174.3 | 1224.7 | 1312.3 | 1540.1 | 1844.7 | 1682.5 | 1424.0 | 1349.5 | 1292.6 |
| 74°   | 1601.5  | 1244.4 | 1084.5 | 1137.0 | 1196.2 | 1417.5 | 1717.6 | 1570.8 | 1325.4 | 1237.8 | 1194.0 |
| 75°   | 1395.6  | 1108.6 | 1007.8 | 1075.7 | 1128.3 | 1334.2 | 1619.0 | 1491.9 | 1270.7 | 1187.4 | 1148.0 |
| 77.5° | 985.9   | 830.3  | 823.7  | 904.8  | 933.3  | 1169.9 | 1459.1 | 1358.3 | 1132.7 | 1045.0 | 1007.8 |
| 80°   | 692.3   | 622.2  | 652.9  | 703.3  | 742.7  | 1034.1 | 1353.9 | 1174.3 | 928.9  | 825.9  | 812.8  |
| 82.5° | 451.3   | 407.5  | 466.6  | 512.7  | 525.8  | 762.4  | 1093.2 | 891.7  | 677.0  | 549.9  | 510.5  |
| 85°   | 208.1   | 203.7  | 267.3  | 260.7  | 258.5  | 372.4  | 648.5  | 521.4  | 390.0  | 291.4  | 273.9  |
| 87.5° | 52.6    | 50.4   | 65.7   | 54.8   | 65.7   | 57.0   | 59.2   | 15.3   | 2.2    | 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    | 0.0    |

(END OF REPORT)