

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: P453985

Luminaire Tested: **GLAN-SA5A-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16491 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 154  
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

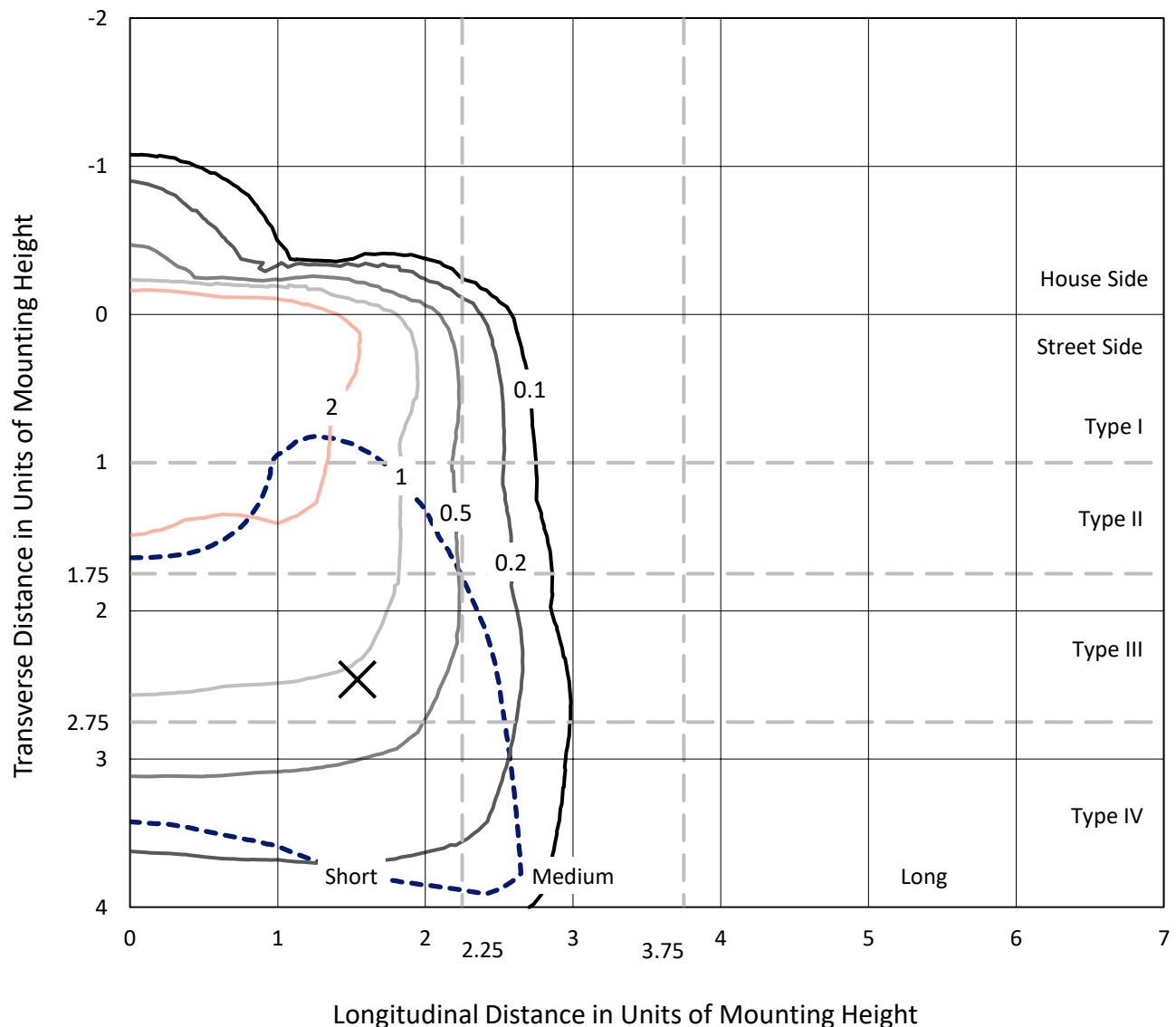


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

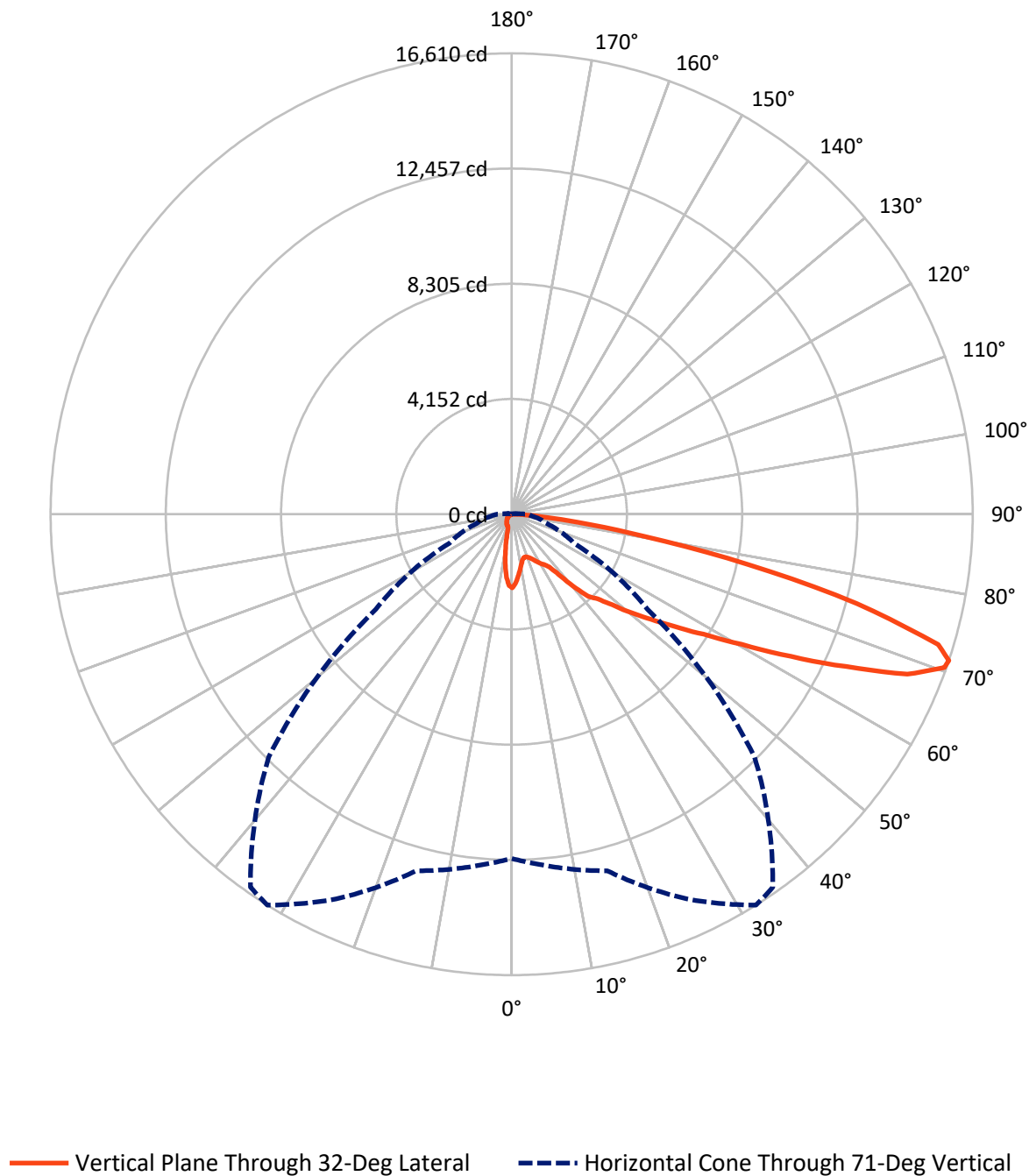


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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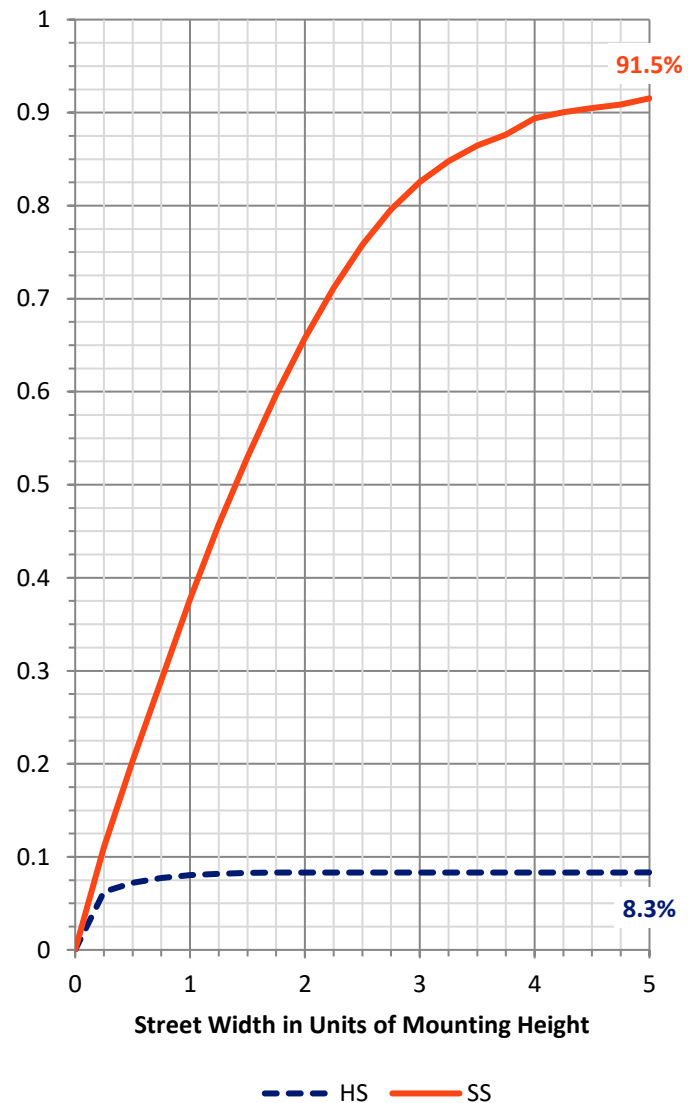
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1381.3   | 0.0    | 1381.3  |
|                    | % Fixture | 8.4      | 0.0    | 8.4     |
| <b>Street Side</b> | Lumens    | 15109.7  | 0.0    | 15109.7 |
|                    | % Fixture | 91.6     | 0.0    | 91.6    |
| <b>Total</b>       | Lumens    | 16491.0  | 0.0    | 16491.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 215.6   | 1.3       |
| 10°-20°   | 468.0   | 2.8       |
| 20°-30°   | 728.1   | 4.4       |
| 30°-40°   | 1213.0  | 7.4       |
| 40°-50°   | 2256.4  | 13.7      |
| 50°-60°   | 3622.7  | 22.0      |
| 60°-70°   | 4872.7  | 29.5      |
| 70°-80°   | 2891.0  | 17.5      |
| 80°-90°   | 223.5   | 1.4       |
| 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°    | 16491.0 | 100.0     |
| 0°-180°   | 16491.0 | 100.0     |

**Coefficient of Utilization**



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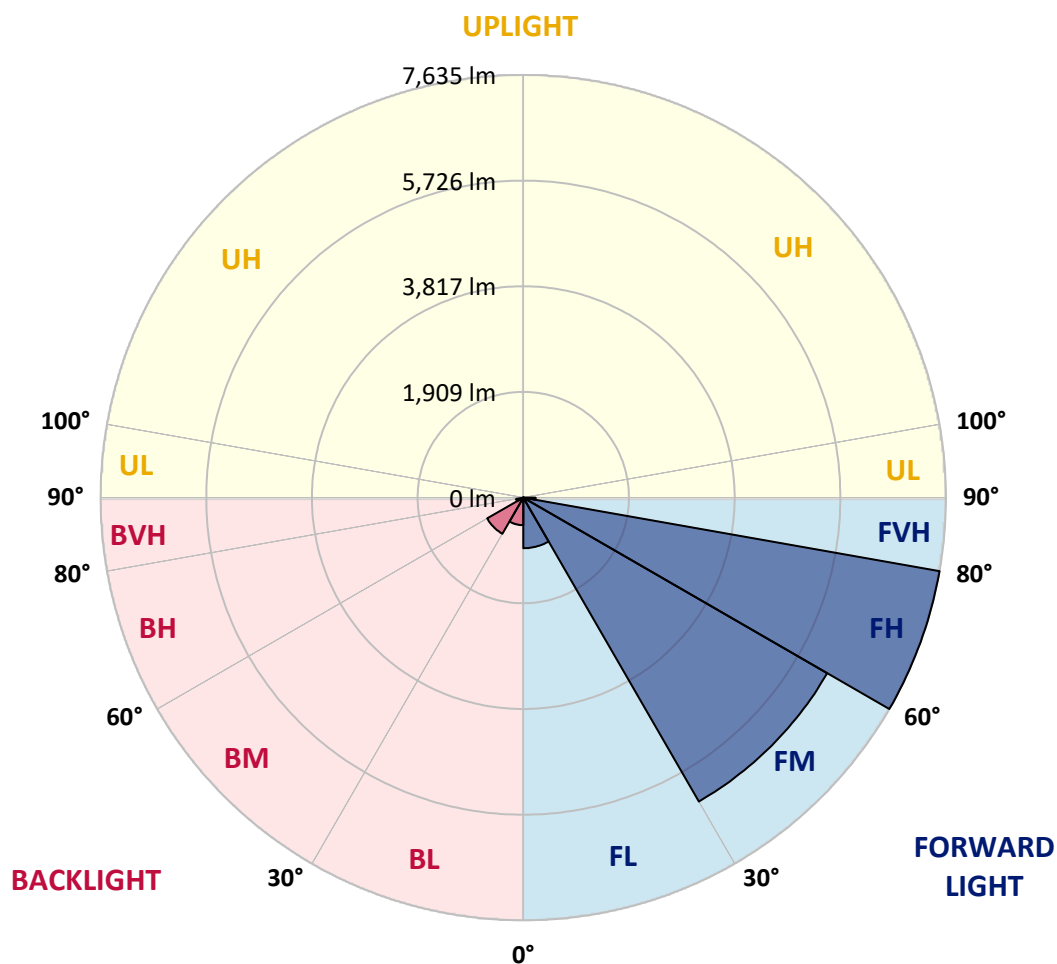
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 914.0  | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 6338.5 | 38.4      |                         |      |          |
| FH   | (60°-80°)   | 7634.5 | 46.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 222.6  | 1.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 497.7  | 3.0       | B1/500                  |      |          |
| BM   | (30°-60°)   | 753.5  | 4.6       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 129.2  | 0.8       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 0.9    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 32°     | 35°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2652.0  | 2652.0  | 2652.0  | 2652.0  | 2652.0  | 2652.0  | 2652.0  | 2652.0 | 2652.0 | 2652.0 | 2652.0 |
| 2.5°  | 2459.6  | 2484.9  | 2481.1  | 2490.0  | 2511.5  | 2520.4  | 2544.4  | 2571.0 | 2607.7 | 2633.0 | 2649.5 |
| 5°    | 2202.6  | 2221.6  | 2224.1  | 2268.4  | 2290.0  | 2314.0  | 2384.9  | 2462.1 | 2548.2 | 2616.6 | 2662.1 |
| 7.5°  | 1927.9  | 1938.1  | 1958.3  | 2016.5  | 2071.0  | 2095.0  | 2202.6  | 2336.8 | 2472.3 | 2600.1 | 2682.4 |
| 10°   | 1701.3  | 1712.7  | 1749.4  | 1811.5  | 1862.1  | 1893.8  | 2043.1  | 2211.5 | 2401.4 | 2591.2 | 2711.5 |
| 12.5° | 1572.2  | 1578.5  | 1592.5  | 1648.2  | 1712.7  | 1746.9  | 1907.7  | 2100.1 | 2344.4 | 2595.0 | 2760.9 |
| 15°   | 1563.4  | 1560.8  | 1544.4  | 1567.2  | 1625.4  | 1660.8  | 1817.8  | 2024.1 | 2293.8 | 2607.7 | 2819.1 |
| 17.5° | 1610.2  | 1603.9  | 1564.6  | 1564.6  | 1612.7  | 1641.8  | 1779.8  | 1983.6 | 2268.4 | 2636.8 | 2901.4 |
| 20°   | 1682.3  | 1672.2  | 1607.7  | 1602.6  | 1649.4  | 1679.8  | 1802.6  | 1986.2 | 2273.5 | 2691.3 | 3011.5 |
| 22.5° | 1773.5  | 1762.1  | 1664.6  | 1667.2  | 1717.8  | 1748.2  | 1868.4  | 2031.7 | 2305.2 | 2758.3 | 3129.2 |
| 25°   | 1892.5  | 1879.8  | 1764.6  | 1759.6  | 1812.7  | 1839.3  | 1965.9  | 2112.7 | 2349.5 | 2841.9 | 3283.7 |
| 27.5° | 2050.7  | 2024.1  | 1886.2  | 1878.6  | 1935.5  | 1969.7  | 2083.6  | 2221.6 | 2428.0 | 2957.1 | 3491.3 |
| 30°   | 2181.1  | 2152.0  | 2020.3  | 2000.1  | 2060.8  | 2087.4  | 2205.2  | 2368.5 | 2582.4 | 3158.4 | 3778.6 |
| 32.5° | 2352.0  | 2309.0  | 2154.5  | 2101.4  | 2165.9  | 2200.1  | 2381.1  | 2641.9 | 2811.5 | 3371.0 | 4120.4 |
| 35°   | 2736.8  | 2710.2  | 2521.6  | 2335.5  | 2331.7  | 2374.8  | 2640.6  | 2917.8 | 3047.0 | 3702.7 | 4586.3 |
| 37.5° | 3287.5  | 3268.5  | 3068.5  | 2819.1  | 2747.0  | 2726.7  | 2955.8  | 3221.7 | 3422.9 | 4158.4 | 5128.1 |
| 40°   | 3926.7  | 3882.4  | 3698.9  | 3487.5  | 3393.8  | 3334.3  | 3328.0  | 3673.6 | 3914.1 | 4777.4 | 5692.6 |
| 42.5° | 4385.0  | 4304.0  | 4081.2  | 4066.0  | 4045.7  | 3983.7  | 3804.0  | 4334.4 | 4548.3 | 5443.3 | 6296.5 |
| 45°   | 4866.0  | 4743.2  | 4411.6  | 4354.6  | 4347.0  | 4343.2  | 4523.0  | 5116.7 | 5239.5 | 6164.8 | 6916.7 |
| 47.5° | 5239.5  | 5142.0  | 4869.8  | 4844.5  | 4876.2  | 4962.2  | 5473.6  | 5947.1 | 5921.8 | 6807.9 | 7437.0 |
| 50°   | 5737.0  | 5663.5  | 5361.0  | 5409.1  | 5572.4  | 5712.9  | 6545.8  | 6852.2 | 6482.6 | 7314.2 | 7815.5 |
| 52.5° | 6324.3  | 6188.9  | 5907.8  | 6038.2  | 6288.9  | 6523.1  | 7683.9  | 7644.6 | 6876.2 | 7695.3 | 8097.8 |
| 55°   | 6833.2  | 6737.0  | 6640.8  | 6776.2  | 7150.9  | 7443.4  | 8711.8  | 8238.3 | 7162.3 | 8001.6 | 8221.9 |
| 57.5° | 7694.0  | 7671.2  | 7572.5  | 7710.5  | 8164.9  | 8468.7  | 9632.1  | 8699.1 | 7345.9 | 8161.1 | 8076.3 |
| 60°   | 8967.5  | 8930.8  | 8747.2  | 8923.2  | 9515.6  | 9992.8  | 10480.2 | 9113.0 | 7387.7 | 8099.1 | 7657.3 |
| 62.5° | 10499.2 | 10373.9 | 10216.9 | 10476.4 | 11289.1 | 11499.2 | 11279.0 | 9358.6 | 7232.0 | 7605.4 | 6647.1 |
| 65°   | 11929.6 | 11800.5 | 11804.3 | 12351.2 | 13236.0 | 13379.0 | 12210.6 | 9321.9 | 6776.2 | 6368.6 | 4902.7 |
| 67.5° | 13024.6 | 13003.1 | 13157.5 | 14224.6 | 15381.7 | 15282.9 | 13043.6 | 8772.5 | 5425.5 | 4128.0 | 2605.2 |
| 70°   | 13080.3 | 13122.1 | 13565.1 | 15366.5 | 16541.2 | 16384.2 | 12972.7 | 7130.7 | 3382.4 | 1898.8 | 1026.6 |
| 71°   | 12406.9 | 12687.9 | 13300.6 | 15331.0 | 16609.6 | 16405.8 | 12375.2 | 5972.4 | 2481.1 | 1324.1 | 740.5  |
| 72.5° | 10572.6 | 10720.7 | 12044.8 | 14428.5 | 16069.0 | 15633.6 | 10860.0 | 4186.3 | 1588.7 | 810.2  | 425.3  |
| 75°   | 5823.0  | 6187.6  | 8066.2  | 11319.5 | 12852.4 | 12470.1 | 7077.5  | 1988.7 | 792.4  | 443.1  | 176.0  |
| 77.5° | 2772.3  | 2701.4  | 3935.6  | 6731.9  | 8714.3  | 8694.0  | 3566.0  | 883.6  | 462.0  | 300.0  | 88.6   |
| 80°   | 792.4   | 891.2   | 1506.4  | 3200.1  | 4838.2  | 4891.3  | 1369.7  | 426.6  | 320.3  | 234.2  | 45.6   |
| 82.5° | 239.3   | 244.3   | 553.2   | 1415.2  | 2406.4  | 2268.4  | 513.9   | 217.7  | 230.4  | 186.1  | 26.6   |
| 85°   | 41.8    | 51.9    | 163.3   | 498.8   | 917.8   | 696.2   | 129.1   | 103.8  | 151.9  | 122.8  | 15.2   |
| 87.5° | 2.5     | 3.8     | 54.4    | 57.0    | 81.0    | 46.8    | 22.8    | 15.2   | 32.9   | 32.9   | 8.9    |
| 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°    | 2652.0 | 2652.0 | 2652.0 | 2652.0 | 2652.0 | 2652.0 | 2652.0 | 2652.0 | 2652.0 | 2652.0 | 2652.0 |
| 2.5°  | 2660.9 | 2668.5 | 2663.4 | 2652.0 | 2633.0 | 2610.2 | 2579.9 | 2554.5 | 2533.0 | 2521.6 | 2535.5 |
| 5°    | 2677.3 | 2687.5 | 2662.1 | 2605.2 | 2519.1 | 2425.4 | 2319.1 | 2236.8 | 2172.2 | 2152.0 | 2144.4 |
| 7.5°  | 2702.6 | 2709.0 | 2640.6 | 2514.0 | 2331.7 | 2110.2 | 1916.5 | 1753.2 | 1626.7 | 1588.7 | 1533.0 |
| 10°   | 2735.6 | 2731.8 | 2602.6 | 2367.2 | 2046.9 | 1714.0 | 1414.0 | 1191.2 | 1022.8 | 962.1  | 957.0  |
| 12.5° | 2786.2 | 2765.9 | 2554.5 | 2167.2 | 1707.7 | 1272.2 | 901.3  | 705.1  | 598.8  | 563.3  | 555.7  |
| 15°   | 2849.5 | 2801.4 | 2478.6 | 1933.0 | 1307.6 | 821.6  | 555.7  | 496.2  | 482.3  | 479.8  | 477.2  |
| 17.5° | 2924.2 | 2848.2 | 2378.6 | 1645.6 | 919.0  | 532.9  | 464.6  | 463.3  | 464.6  | 462.0  | 460.8  |
| 20°   | 3025.4 | 2897.6 | 2259.6 | 1305.1 | 607.6  | 449.4  | 443.1  | 443.1  | 444.3  | 443.1  | 443.1  |
| 22.5° | 3133.0 | 2955.8 | 2112.7 | 996.2  | 458.2  | 426.6  | 425.3  | 427.9  | 430.4  | 429.1  | 429.1  |
| 25°   | 3266.0 | 3031.8 | 1919.1 | 682.3  | 410.1  | 407.6  | 408.9  | 413.9  | 419.0  | 420.3  | 419.0  |
| 27.5° | 3458.4 | 3125.4 | 1711.5 | 469.6  | 376.0  | 378.5  | 391.2  | 403.8  | 411.4  | 412.7  | 412.7  |
| 30°   | 3674.8 | 3229.2 | 1440.6 | 381.0  | 348.1  | 348.1  | 363.3  | 387.4  | 403.8  | 406.3  | 407.6  |
| 32.5° | 3953.3 | 3349.5 | 1140.6 | 343.1  | 321.5  | 319.0  | 332.9  | 362.0  | 392.4  | 401.3  | 401.3  |
| 35°   | 4297.6 | 3491.3 | 848.1  | 319.0  | 302.5  | 296.2  | 303.8  | 327.9  | 367.1  | 392.4  | 395.0  |
| 37.5° | 4701.5 | 3625.5 | 620.3  | 297.5  | 284.8  | 276.0  | 281.0  | 300.0  | 331.7  | 369.6  | 379.8  |
| 40°   | 5074.9 | 3744.5 | 463.3  | 279.8  | 267.1  | 260.8  | 264.6  | 273.4  | 300.0  | 335.5  | 341.8  |
| 42.5° | 5482.5 | 3836.9 | 368.4  | 260.8  | 249.4  | 246.8  | 246.8  | 250.6  | 268.4  | 288.6  | 289.9  |
| 45°   | 5888.9 | 3869.8 | 308.9  | 238.0  | 230.4  | 232.9  | 231.7  | 229.1  | 236.7  | 234.2  | 234.2  |
| 47.5° | 6178.7 | 3830.5 | 255.7  | 216.5  | 216.5  | 220.3  | 213.9  | 205.1  | 201.3  | 186.1  | 187.3  |
| 50°   | 6377.5 | 3687.5 | 210.1  | 191.1  | 201.3  | 206.3  | 193.7  | 179.8  | 165.8  | 149.4  | 145.6  |
| 52.5° | 6459.8 | 3433.1 | 172.2  | 158.2  | 178.5  | 184.8  | 169.6  | 153.2  | 131.7  | 117.7  | 113.9  |
| 55°   | 6406.6 | 3119.1 | 143.0  | 129.1  | 150.6  | 158.2  | 143.0  | 124.1  | 100.0  | 84.8   | 82.3   |
| 57.5° | 6172.4 | 2744.4 | 121.5  | 102.5  | 120.3  | 125.3  | 115.2  | 94.9   | 70.9   | 55.7   | 55.7   |
| 60°   | 5767.3 | 2357.1 | 98.7   | 81.0   | 89.9   | 97.5   | 87.3   | 68.4   | 48.1   | 34.2   | 31.6   |
| 62.5° | 4945.8 | 1914.0 | 79.8   | 63.3   | 63.3   | 69.6   | 60.8   | 49.4   | 30.4   | 17.7   | 16.5   |
| 65°   | 3571.0 | 1312.7 | 63.3   | 46.8   | 45.6   | 45.6   | 38.0   | 32.9   | 17.7   | 7.6    | 5.1    |
| 67.5° | 1940.6 | 740.5  | 50.6   | 35.4   | 31.6   | 30.4   | 24.1   | 19.0   | 7.6    | 1.3    | 0.0    |
| 70°   | 763.3  | 284.8  | 39.2   | 24.1   | 20.3   | 19.0   | 12.7   | 8.9    | 5.1    | 0.0    | 0.0    |
| 71°   | 517.7  | 196.2  | 34.2   | 20.3   | 16.5   | 13.9   | 10.1   | 7.6    | 3.8    | 0.0    | 0.0    |
| 72.5° | 296.2  | 121.5  | 26.6   | 15.2   | 12.7   | 10.1   | 7.6    | 5.1    | 3.8    | 0.0    | 0.0    |
| 75°   | 129.1  | 62.0   | 16.5   | 11.4   | 8.9    | 6.3    | 5.1    | 3.8    | 1.3    | 0.0    | 0.0    |
| 77.5° | 65.8   | 34.2   | 11.4   | 8.9    | 5.1    | 3.8    | 2.5    | 1.3    | 0.0    | 0.0    | 0.0    |
| 80°   | 36.7   | 17.7   | 7.6    | 5.1    | 3.8    | 2.5    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    |
| 82.5° | 20.3   | 10.1   | 3.8    | 2.5    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 12.7   | 6.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 6.3    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 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    | 0.0    |

(END OF REPORT)