

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: P454219

Luminaire Tested: **GLAN-SA5B-740-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20614 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 204  
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

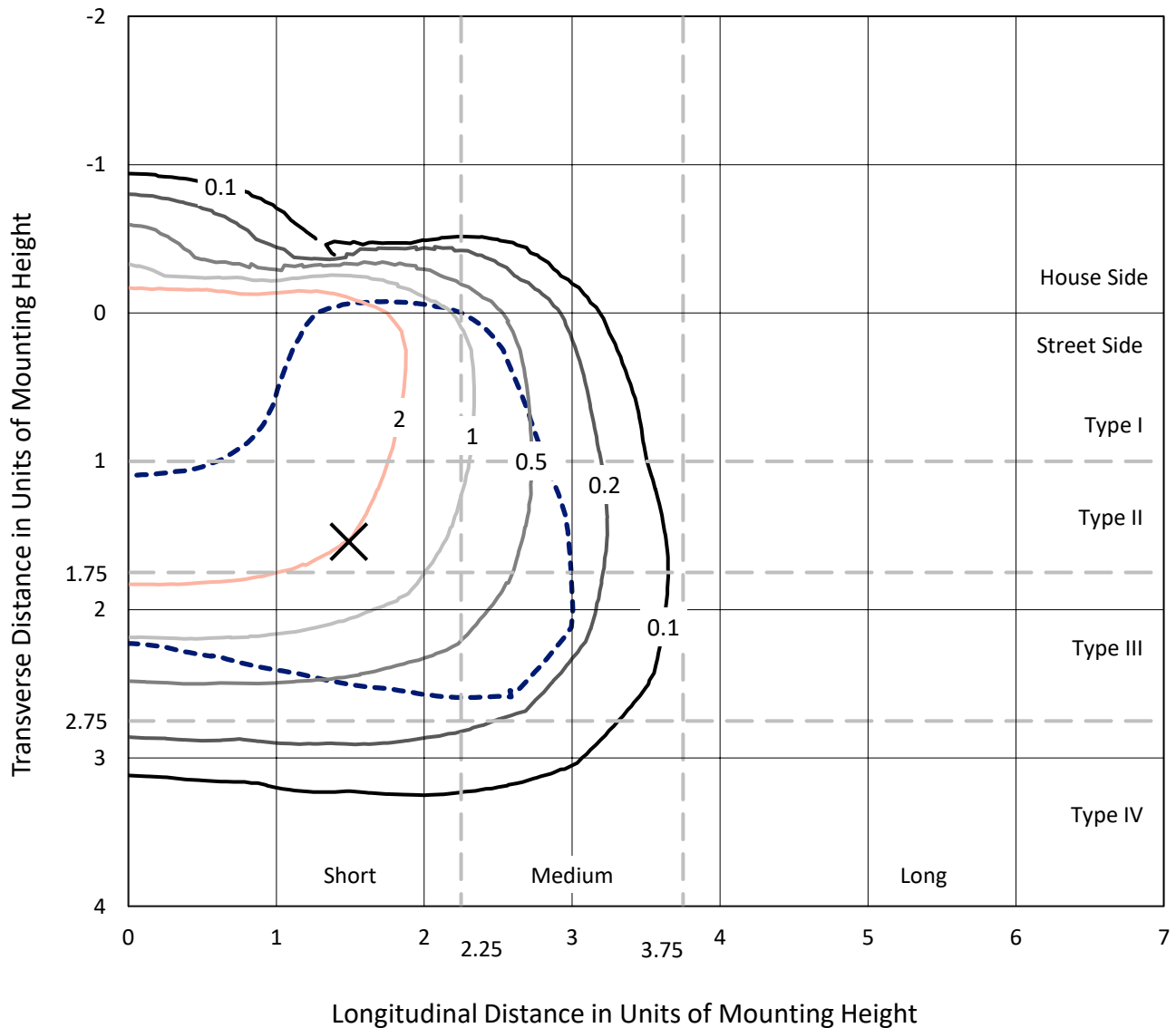


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## Iso-Footcandle Lines of Horizontal Illumination

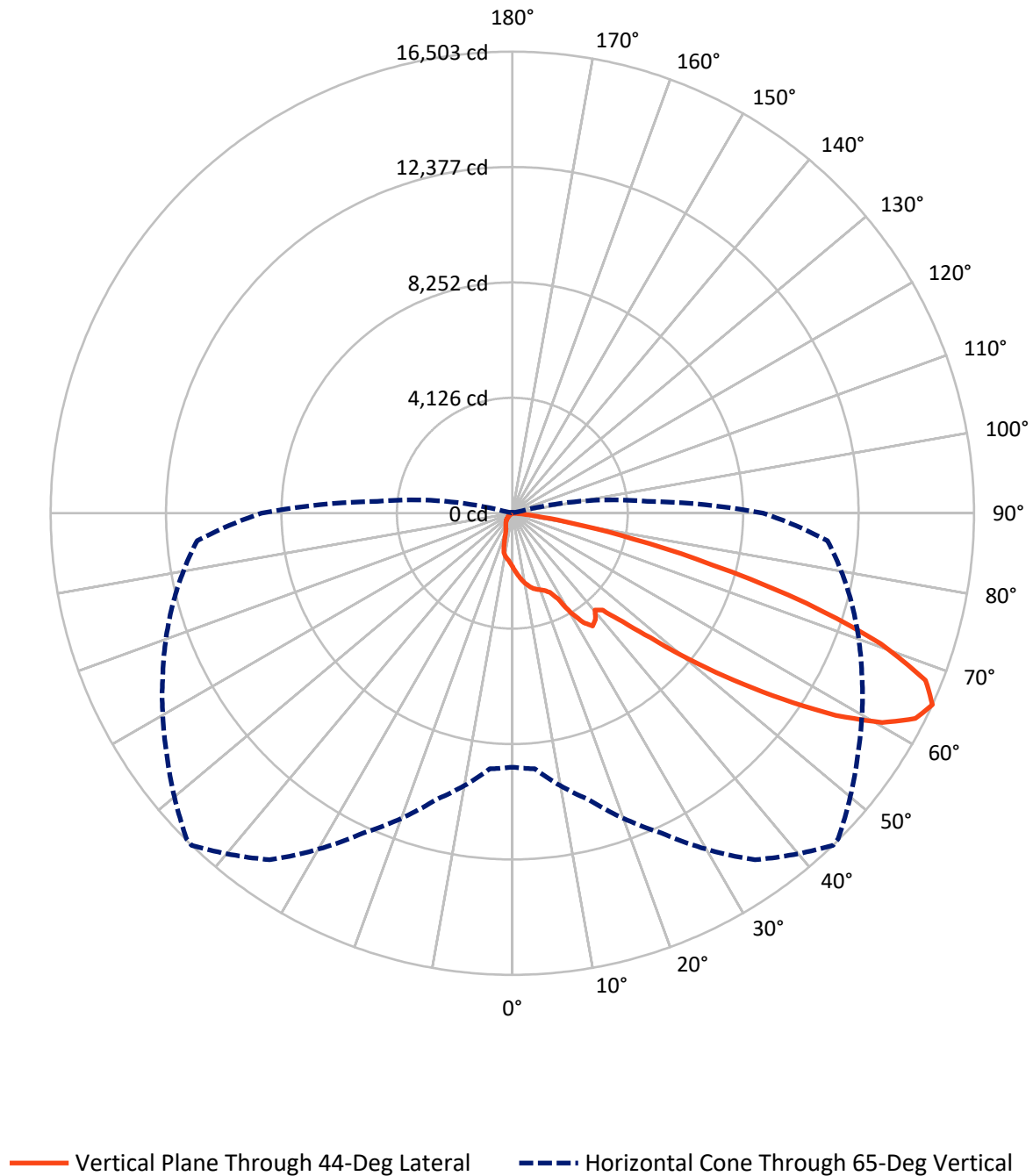
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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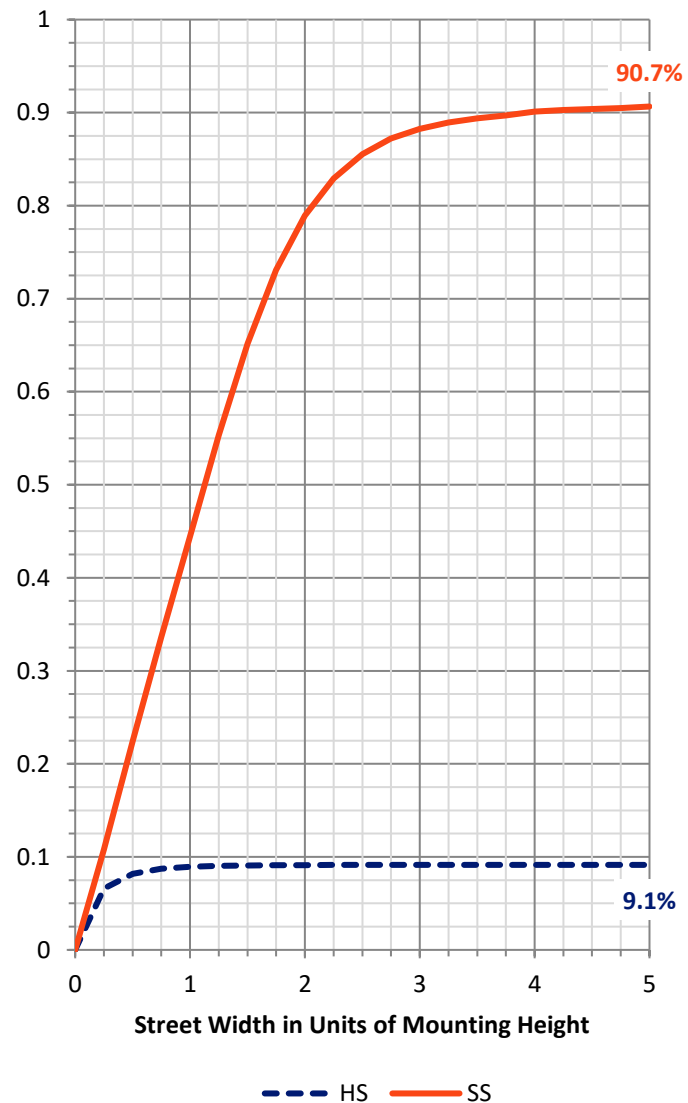
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1899.3   | 0.0    | 1899.3  |
|                    | % Fixture | 9.2      | 0.0    | 9.2     |
| <b>Street Side</b> | Lumens    | 18714.7  | 0.0    | 18714.7 |
|                    | % Fixture | 90.8     | 0.0    | 90.8    |
| <b>Total</b>       | Lumens    | 20614.0  | 0.0    | 20614.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 190.8   | 0.9       |
| 10°-20°   | 574.3   | 2.8       |
| 20°-30°   | 973.8   | 4.7       |
| 30°-40°   | 1619.1  | 7.9       |
| 40°-50°   | 2827.0  | 13.7      |
| 50°-60°   | 5523.0  | 26.8      |
| 60°-70°   | 6408.0  | 31.1      |
| 70°-80°   | 2333.5  | 11.3      |
| 80°-90°   | 164.4   | 0.8       |
| 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°    | 20614.0 | 100.0     |
| 0°-180°   | 20614.0 | 100.0     |

**Coefficient of Utilization**



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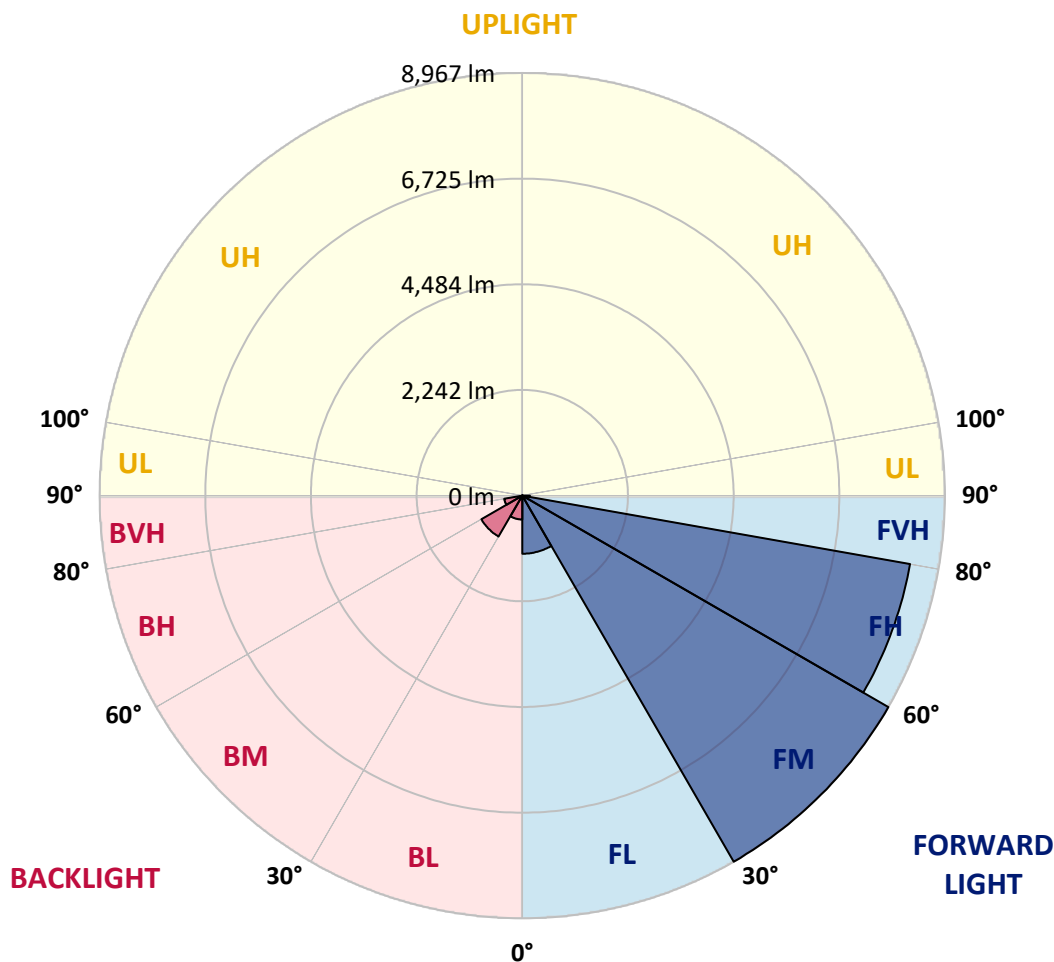
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1232.9 | 6.0       |                         |      |          |
| FM   | (30°-60°)   | 8967.1 | 43.5      |                         |      |          |
| FH   | (60°-80°)   | 8352.5 | 40.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 162.2  | 0.8       |                         |      | G2/225   |
| BL   | (0°-30°)    | 506.0  | 2.5       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1002.1 | 4.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 388.9  | 1.9       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 2.2    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1918.5  | 1918.5  | 1918.5  | 1918.5  | 1918.5  | 1918.5  | 1918.5  | 1918.5  | 1918.5  | 1918.5  | 1918.5  |
| 2.5°  | 2159.5  | 2150.1  | 2145.4  | 2120.2  | 2101.3  | 2077.6  | 2077.6  | 2047.7  | 2013.1  | 1975.3  | 1940.6  |
| 5°    | 2400.5  | 2384.8  | 2364.3  | 2342.3  | 2298.2  | 2235.2  | 2235.2  | 2172.1  | 2099.7  | 2035.1  | 1964.2  |
| 7.5°  | 2632.1  | 2617.9  | 2583.3  | 2540.7  | 2468.3  | 2402.1  | 2397.4  | 2306.0  | 2219.4  | 2121.7  | 2020.9  |
| 10°   | 2835.3  | 2824.3  | 2794.3  | 2712.4  | 2636.8  | 2550.2  | 2548.6  | 2446.2  | 2345.4  | 2225.7  | 2101.3  |
| 12.5° | 2977.1  | 2978.6  | 2939.3  | 2860.5  | 2762.8  | 2680.9  | 2674.6  | 2573.8  | 2468.3  | 2339.1  | 2186.3  |
| 15°   | 3077.9  | 3077.9  | 3036.9  | 2948.7  | 2860.5  | 2788.0  | 2781.7  | 2693.5  | 2584.8  | 2444.7  | 2279.3  |
| 17.5° | 3106.2  | 3115.7  | 3071.6  | 2992.8  | 2921.9  | 2858.9  | 2857.3  | 2783.3  | 2696.7  | 2561.2  | 2373.8  |
| 20°   | 3095.2  | 3104.6  | 3070.0  | 3008.6  | 2959.7  | 2923.5  | 2918.8  | 2888.8  | 2808.5  | 2680.9  | 2474.6  |
| 22.5° | 3071.6  | 3081.0  | 3055.8  | 3019.6  | 2996.0  | 3007.0  | 2999.1  | 3024.3  | 2981.8  | 2827.4  | 2594.3  |
| 25°   | 3076.3  | 3085.7  | 3066.8  | 3046.4  | 3066.8  | 3134.6  | 3155.1  | 3263.7  | 3225.9  | 3013.3  | 2723.5  |
| 27.5° | 3224.4  | 3243.3  | 3216.5  | 3225.9  | 3298.4  | 3455.9  | 3495.3  | 3682.7  | 3515.8  | 3249.6  | 2925.1  |
| 30°   | 3553.6  | 3541.0  | 3490.6  | 3536.2  | 3788.3  | 4122.2  | 4111.2  | 4081.2  | 3819.8  | 3522.1  | 3164.5  |
| 32.5° | 3852.8  | 3841.8  | 3838.7  | 4035.6  | 4492.4  | 4654.6  | 4646.7  | 4356.9  | 4092.3  | 3833.9  | 3400.8  |
| 35°   | 3974.1  | 3931.6  | 3922.2  | 4399.4  | 5163.4  | 4949.2  | 4900.3  | 4470.3  | 4423.1  | 4174.2  | 3641.8  |
| 37.5° | 4339.6  | 4309.6  | 4163.2  | 4459.3  | 4895.6  | 4824.7  | 4786.9  | 4665.6  | 4775.9  | 4475.0  | 3914.3  |
| 40°   | 5092.5  | 5009.0  | 4876.7  | 4586.9  | 4516.0  | 4545.9  | 4583.7  | 4916.1  | 5193.3  | 4886.2  | 4278.1  |
| 42.5° | 6028.1  | 6009.2  | 5763.5  | 5223.2  | 4692.4  | 4733.4  | 4782.2  | 5439.0  | 5793.4  | 5505.2  | 4872.0  |
| 45°   | 7151.2  | 7178.0  | 6823.6  | 6185.7  | 5489.4  | 5524.1  | 5595.0  | 6210.9  | 6606.2  | 6467.6  | 5806.1  |
| 47.5° | 8171.9  | 8151.5  | 8031.8  | 7368.6  | 6725.9  | 6648.8  | 6763.8  | 7201.6  | 7730.9  | 7753.0  | 6965.4  |
| 50°   | 9199.0  | 9307.6  | 9129.6  | 8869.7  | 8392.5  | 8230.2  | 8187.7  | 8401.9  | 9208.4  | 9102.9  | 8357.8  |
| 52.5° | 10674.9 | 10731.6 | 10397.7 | 10331.5 | 10440.2 | 9914.1  | 9871.5  | 9923.5  | 10645.0 | 10282.7 | 9400.6  |
| 55°   | 11602.7 | 11569.6 | 11445.1 | 11961.8 | 12391.8 | 11735.0 | 11681.4 | 11471.9 | 11837.4 | 11115.9 | 10404.0 |
| 57.5° | 11895.6 | 11942.9 | 12232.7 | 13166.8 | 14184.3 | 13626.7 | 13529.1 | 12933.7 | 12697.4 | 11892.5 | 11327.0 |
| 60°   | 11764.9 | 11851.5 | 12476.9 | 13866.2 | 15277.5 | 15194.0 | 15110.5 | 14110.3 | 13314.9 | 12541.4 | 11974.4 |
| 62.5° | 10834.0 | 10955.3 | 11955.5 | 13741.7 | 15647.7 | 16169.0 | 16065.1 | 14844.3 | 13726.0 | 12856.5 | 12087.8 |
| 65°   | 9079.2  | 9169.0  | 10605.6 | 12612.3 | 15121.6 | 16503.0 | 16465.2 | 15074.3 | 13790.6 | 12568.2 | 11311.2 |
| 67.5° | 6472.3  | 6777.9  | 8108.9  | 10629.2 | 13565.3 | 15932.8 | 15997.4 | 14798.7 | 13184.1 | 11322.3 | 9367.5  |
| 70°   | 4068.6  | 4276.6  | 5231.1  | 7609.6  | 10874.9 | 13978.0 | 14190.6 | 13537.0 | 11442.0 | 8825.6  | 6270.7  |
| 72.5° | 1940.6  | 2095.0  | 2775.4  | 4816.8  | 7675.8  | 10997.8 | 11166.3 | 11112.8 | 8847.7  | 5560.3  | 3235.4  |
| 75°   | 864.8   | 923.0   | 1324.7  | 2458.8  | 4955.5  | 7392.2  | 7828.6  | 7901.0  | 5528.8  | 2720.3  | 1258.6  |
| 77.5° | 441.0   | 442.6   | 620.6   | 1190.8  | 2474.6  | 4410.5  | 4497.1  | 4750.7  | 2997.5  | 1198.7  | 437.9   |
| 80°   | 234.7   | 250.5   | 329.2   | 562.3   | 1283.8  | 2172.1  | 2161.1  | 2375.3  | 1329.4  | 587.5   | 146.5   |
| 82.5° | 105.5   | 116.6   | 185.9   | 294.6   | 626.9   | 823.8   | 888.4   | 971.9   | 570.2   | 374.9   | 64.6    |
| 85°   | 31.5    | 37.8    | 91.4    | 148.1   | 226.8   | 237.8   | 266.2   | 343.4   | 322.9   | 266.2   | 33.1    |
| 87.5° | 4.7     | 4.7     | 37.8    | 41.0    | 33.1    | 42.5    | 44.1    | 48.8    | 104.0   | 97.7    | 17.3    |
| 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°    | 1918.5  | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 |
| 2.5°  | 1921.7  | 1910.7 | 1871.3 | 1838.2 | 1809.9 | 1792.5 | 1772.1 | 1759.5 | 1753.2 | 1748.4 | 1750.0 |
| 5°    | 1929.6  | 1902.8 | 1835.1 | 1781.5 | 1740.6 | 1696.5 | 1666.5 | 1649.2 | 1641.3 | 1628.7 | 1628.7 |
| 7.5°  | 1973.7  | 1931.1 | 1836.6 | 1754.7 | 1683.8 | 1624.0 | 1567.3 | 1546.8 | 1532.6 | 1529.5 | 1526.3 |
| 10°   | 2036.7  | 1983.1 | 1854.0 | 1740.6 | 1639.7 | 1557.8 | 1477.5 | 1406.6 | 1351.5 | 1318.4 | 1313.7 |
| 12.5° | 2115.4  | 2038.3 | 1880.7 | 1731.1 | 1601.9 | 1457.0 | 1244.4 | 1101.0 | 1005.0 | 975.0  | 979.8  |
| 15°   | 2187.9  | 2104.4 | 1907.5 | 1723.2 | 1532.6 | 1208.2 | 967.2  | 803.3  | 754.5  | 749.8  | 751.4  |
| 17.5° | 2274.5  | 2175.3 | 1939.0 | 1712.2 | 1342.0 | 923.0  | 718.3  | 674.2  | 683.6  | 699.4  | 697.8  |
| 20°   | 2364.3  | 2250.9 | 1976.8 | 1646.0 | 1071.1 | 694.6  | 634.8  | 639.5  | 653.7  | 667.9  | 671.0  |
| 22.5° | 2460.4  | 2337.5 | 2020.9 | 1487.0 | 817.5  | 604.9  | 601.7  | 608.0  | 622.2  | 637.9  | 641.1  |
| 25°   | 2592.7  | 2446.2 | 2054.0 | 1279.0 | 619.0  | 559.2  | 565.5  | 576.5  | 589.1  | 606.4  | 609.6  |
| 27.5° | 2762.8  | 2592.7 | 2071.3 | 1008.1 | 535.6  | 518.2  | 519.8  | 535.6  | 551.3  | 567.1  | 567.1  |
| 30°   | 2983.4  | 2767.6 | 2036.7 | 762.4  | 494.6  | 478.8  | 472.5  | 482.0  | 502.5  | 518.2  | 519.8  |
| 32.5° | 3180.3  | 2933.0 | 1945.3 | 582.8  | 464.7  | 442.6  | 426.9  | 428.4  | 436.3  | 445.8  | 447.3  |
| 35°   | 3377.1  | 3093.6 | 1789.4 | 489.9  | 433.2  | 408.0  | 384.3  | 371.7  | 365.4  | 360.7  | 365.4  |
| 37.5° | 3629.2  | 3293.7 | 1581.5 | 445.8  | 406.4  | 374.9  | 341.8  | 315.0  | 293.0  | 278.8  | 282.0  |
| 40°   | 3953.7  | 3570.9 | 1335.7 | 417.4  | 381.2  | 343.4  | 299.3  | 264.6  | 226.8  | 214.2  | 207.9  |
| 42.5° | 4489.2  | 3991.5 | 1077.4 | 393.8  | 356.0  | 310.3  | 255.2  | 207.9  | 173.3  | 160.7  | 163.8  |
| 45°   | 5335.1  | 4522.3 | 830.1  | 368.6  | 330.8  | 274.1  | 214.2  | 163.8  | 135.5  | 129.2  | 132.3  |
| 47.5° | 6456.6  | 5209.1 | 639.5  | 340.2  | 299.3  | 234.7  | 168.5  | 129.2  | 111.8  | 110.3  | 108.7  |
| 50°   | 7512.0  | 5848.6 | 534.0  | 308.7  | 261.5  | 195.3  | 138.6  | 108.7  | 97.7   | 96.1   | 96.1   |
| 52.5° | 8466.5  | 6307.0 | 434.7  | 272.5  | 220.5  | 160.7  | 116.6  | 96.1   | 86.6   | 81.9   | 81.9   |
| 55°   | 9315.5  | 6606.2 | 352.8  | 228.4  | 173.3  | 127.6  | 100.8  | 86.6   | 75.6   | 69.3   | 67.7   |
| 57.5° | 9956.6  | 6642.5 | 264.6  | 182.7  | 129.2  | 99.2   | 86.6   | 75.6   | 63.0   | 55.1   | 52.0   |
| 60°   | 10230.7 | 6329.0 | 195.3  | 138.6  | 96.1   | 78.8   | 69.3   | 61.4   | 47.3   | 39.4   | 37.8   |
| 62.5° | 9955.0  | 5719.4 | 144.9  | 105.5  | 74.0   | 58.3   | 48.8   | 45.7   | 33.1   | 23.6   | 22.1   |
| 65°   | 8967.4  | 4838.9 | 115.0  | 80.3   | 55.1   | 42.5   | 31.5   | 29.9   | 20.5   | 11.0   | 9.5    |
| 67.5° | 7184.3  | 3789.8 | 91.4   | 59.9   | 39.4   | 28.4   | 20.5   | 18.9   | 11.0   | 3.2    | 3.2    |
| 70°   | 4671.9  | 2422.6 | 74.0   | 44.1   | 25.2   | 18.9   | 12.6   | 9.5    | 6.3    | 1.6    | 0.0    |
| 72.5° | 2310.8  | 1132.5 | 59.9   | 34.7   | 17.3   | 9.5    | 4.7    | 3.2    | 4.7    | 0.0    | 0.0    |
| 75°   | 896.3   | 403.2  | 44.1   | 23.6   | 9.5    | 4.7    | 3.2    | 0.0    | 1.6    | 0.0    | 0.0    |
| 77.5° | 297.7   | 133.9  | 26.8   | 12.6   | 6.3    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 110.3   | 52.0   | 14.2   | 7.9    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 44.1    | 20.5   | 9.5    | 6.3    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 22.1    | 12.6   | 6.3    | 4.7    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 15.8    | 9.5    | 6.3    | 4.7    | 3.2    | 1.6    | 0.0    | 0.0    | 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)