

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: P527725

Luminaire Tested: **GLAN-SA2D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8616 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 125  
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



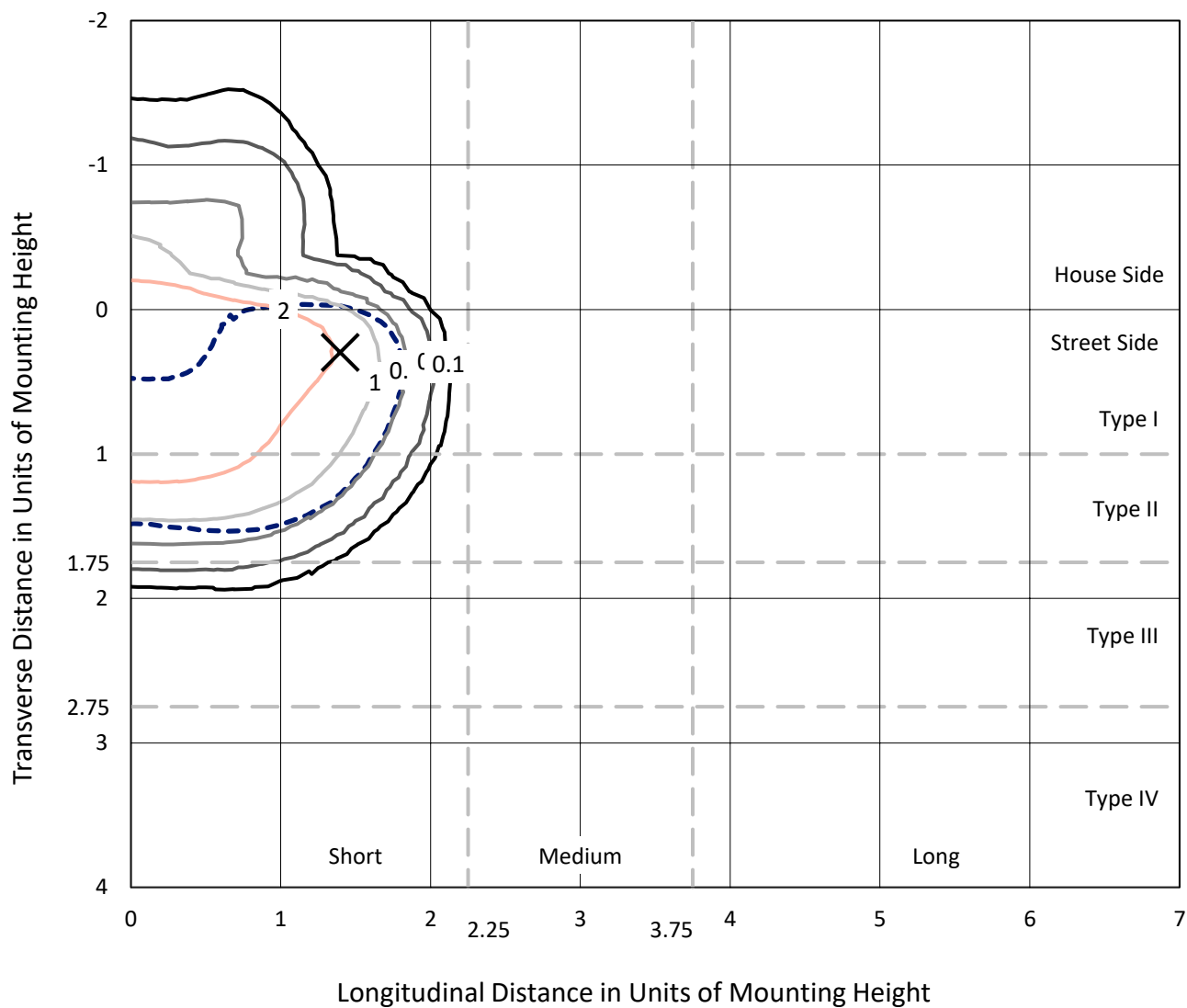
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

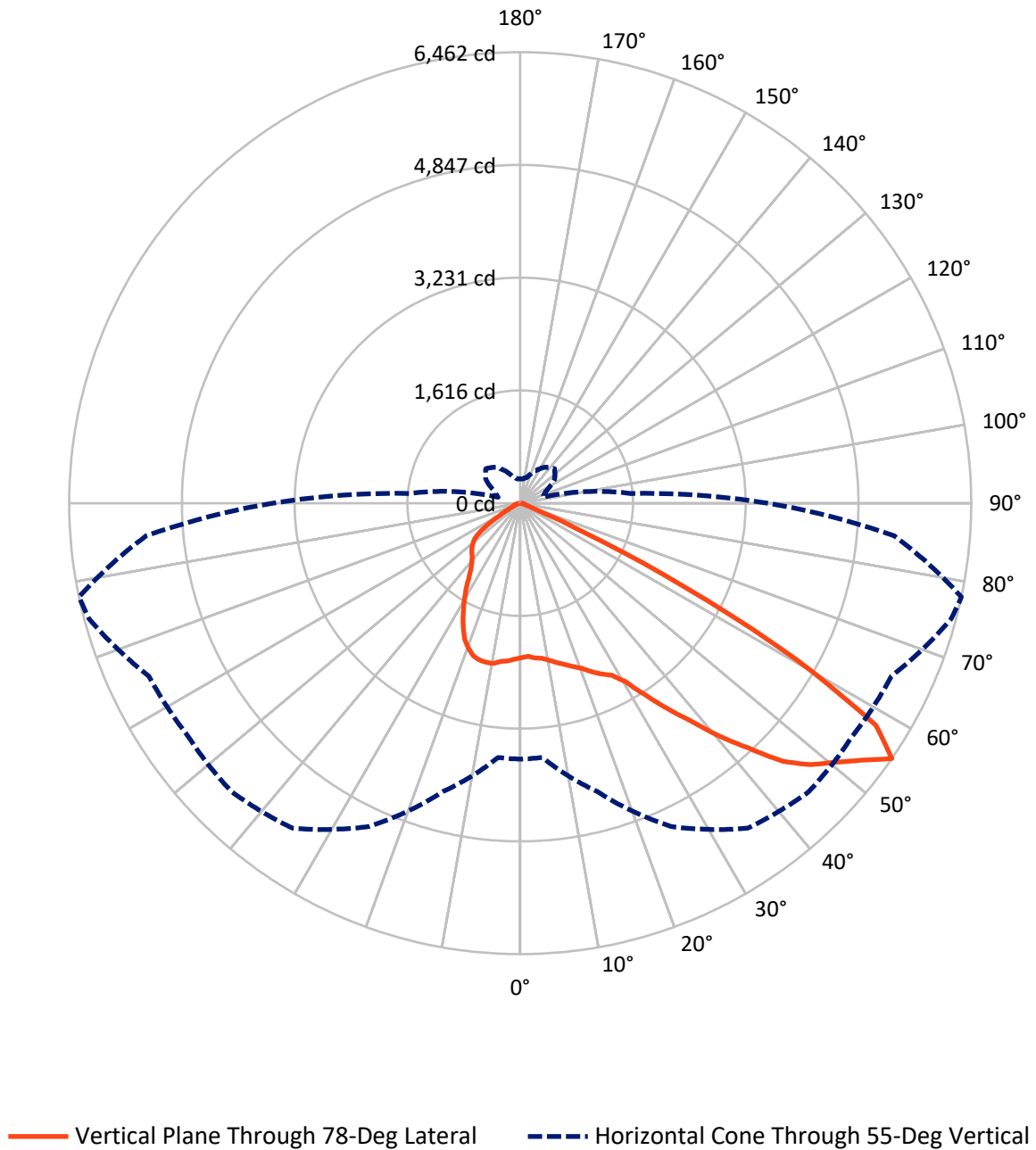


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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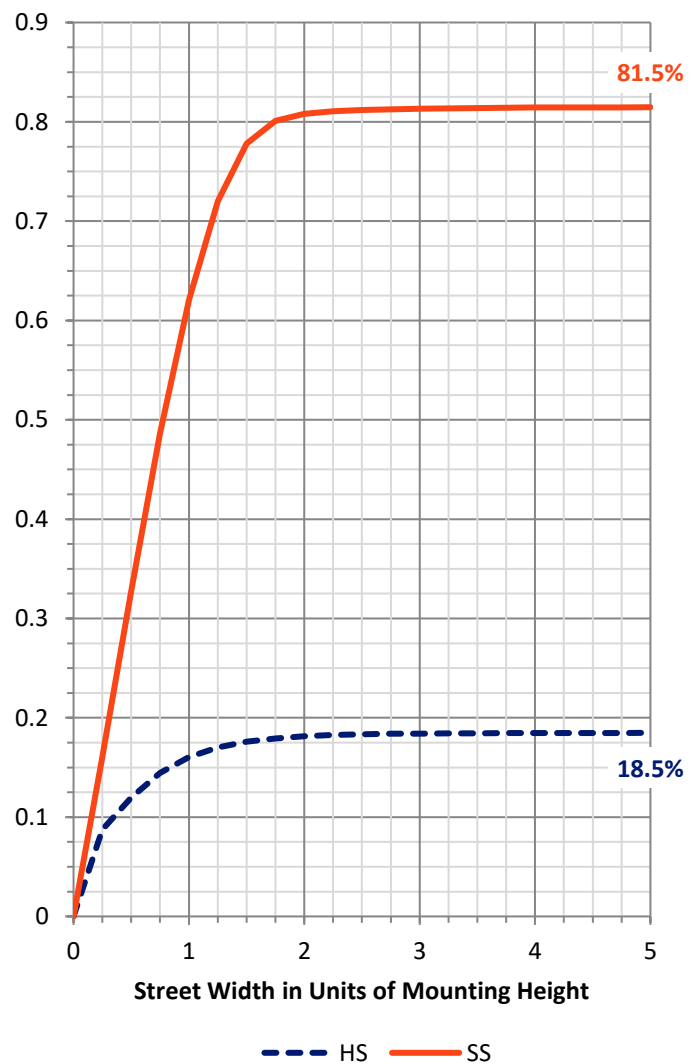
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1600.3   | 0.0    | 1600.3 |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 7015.7   | 0.0    | 7015.7 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 8616.0   | 0.0    | 8616.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 197.5  | 2.3       |
| 10°-20°   | 522.7  | 6.1       |
| 20°-30°   | 916.3  | 10.6      |
| 30°-40°   | 1510.8 | 17.5      |
| 40°-50°   | 2198.5 | 25.5      |
| 50°-60°   | 2491.1 | 28.9      |
| 60°-70°   | 712.2  | 8.3       |
| 70°-80°   | 55.3   | 0.6       |
| 80°-90°   | 11.5   | 0.1       |
| 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°    | 8616.0 | 100.0     |
| 0°-180°   | 8616.0 | 100.0     |

**Coefficient of Utilization**



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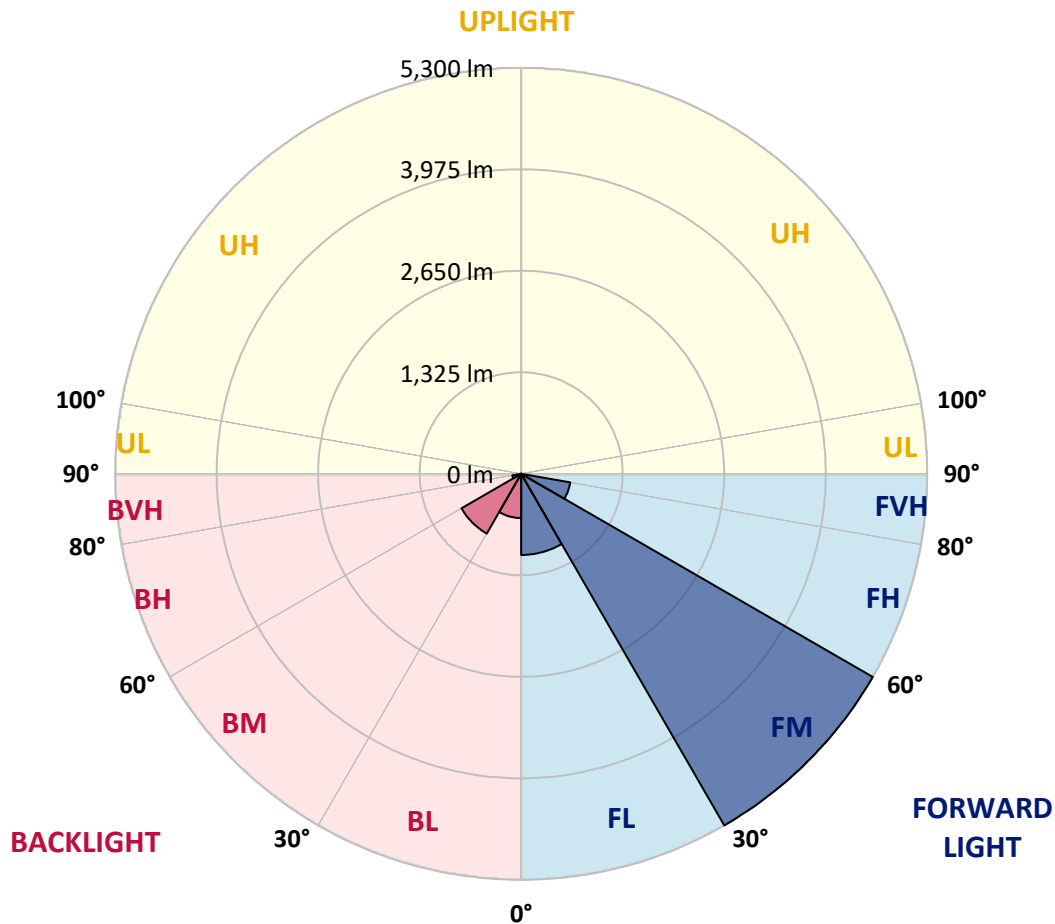
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1059.2 | 12.3      |                         |      |        |
| FM   | (30°-60°)   | 5300.2 | 61.5      |                         |      |        |
| FH   | (60°-80°)   | 650.7  | 7.6       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 5.6    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 577.4  | 6.7       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 900.2  | 10.4      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 116.8  | 1.4       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 5.9    | 0.1       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 |
| 2.5°  | 2082.7 | 2102.7 | 2105.8 | 2130.5 | 2128.9 | 2170.5 | 2182.8 | 2184.4 | 2212.1 | 2198.2 | 2233.7 |
| 5°    | 2024.2 | 2013.4 | 2008.8 | 2051.9 | 2064.2 | 2101.2 | 2132.0 | 2150.5 | 2207.5 | 2227.5 | 2264.5 |
| 7.5°  | 1971.8 | 1971.8 | 1974.9 | 2013.4 | 2008.8 | 2056.5 | 2088.9 | 2145.9 | 2229.0 | 2246.0 | 2290.7 |
| 10°   | 1921.0 | 1902.5 | 1925.6 | 1965.6 | 1999.5 | 2021.1 | 2088.9 | 2142.8 | 2239.8 | 2289.1 | 2350.7 |
| 12.5° | 1894.8 | 1904.0 | 1907.1 | 1936.4 | 1973.3 | 2038.0 | 2075.0 | 2164.3 | 2316.8 | 2346.1 | 2412.4 |
| 15°   | 2059.6 | 2041.1 | 1996.4 | 1970.2 | 2001.1 | 2031.9 | 2124.3 | 2215.2 | 2356.9 | 2398.5 | 2472.4 |
| 17.5° | 2250.6 | 2235.2 | 2198.2 | 2127.4 | 2058.1 | 2115.0 | 2187.5 | 2270.6 | 2400.0 | 2461.7 | 2571.0 |
| 20°   | 2500.2 | 2475.5 | 2438.5 | 2299.9 | 2239.8 | 2178.2 | 2255.2 | 2353.8 | 2470.9 | 2526.4 | 2638.8 |
| 22.5° | 2797.5 | 2797.5 | 2714.3 | 2546.4 | 2421.6 | 2363.1 | 2395.4 | 2452.4 | 2549.5 | 2624.9 | 2735.9 |
| 25°   | 3107.1 | 3097.9 | 3022.4 | 2848.3 | 2637.3 | 2567.9 | 2604.9 | 2645.0 | 2671.2 | 2712.7 | 2786.7 |
| 27.5° | 3461.4 | 3407.5 | 3312.0 | 3119.4 | 2933.0 | 2799.0 | 2839.1 | 2803.6 | 2771.3 | 2792.9 | 2899.1 |
| 30°   | 3701.7 | 3735.6 | 3613.9 | 3429.1 | 3253.4 | 3104.0 | 3111.7 | 3080.9 | 2933.0 | 2963.8 | 3027.0 |
| 32.5° | 3951.3 | 3972.8 | 3905.1 | 3803.4 | 3627.8 | 3453.7 | 3390.5 | 3364.4 | 3253.4 | 3267.3 | 3205.7 |
| 35°   | 4159.2 | 4200.8 | 4140.8 | 4096.1 | 4045.2 | 3905.1 | 3731.0 | 3815.7 | 3637.0 | 3603.1 | 3442.9 |
| 37.5° | 4350.3 | 4337.9 | 4408.8 | 4362.6 | 4351.8 | 4253.2 | 4062.2 | 4079.1 | 3959.0 | 3951.3 | 3766.4 |
| 40°   | 4521.2 | 4524.3 | 4621.4 | 4642.9 | 4599.8 | 4424.2 | 4146.9 | 4280.9 | 4378.0 | 4387.2 | 4150.0 |
| 42.5° | 4663.0 | 4704.6 | 4787.7 | 4961.8 | 4897.1 | 4604.4 | 4234.7 | 4381.1 | 4741.5 | 4798.5 | 4513.5 |
| 45°   | 4786.2 | 4870.9 | 4974.1 | 5129.7 | 5092.8 | 4860.1 | 4453.5 | 4587.5 | 5129.7 | 5279.1 | 4855.5 |
| 47.5° | 4793.9 | 4904.8 | 5017.3 | 5248.3 | 5294.6 | 4997.2 | 4679.9 | 4914.1 | 5437.8 | 5599.6 | 5105.1 |
| 50°   | 4763.1 | 4821.6 | 5046.5 | 5297.6 | 5402.4 | 5220.6 | 4997.2 | 5188.3 | 5736.7 | 5838.3 | 5231.4 |
| 52.5° | 4398.0 | 4442.7 | 4894.0 | 5343.8 | 5596.5 | 5473.2 | 5417.8 | 5570.3 | 6041.7 | 6117.2 | 5350.0 |
| 55°   | 3666.3 | 3658.6 | 4279.4 | 5111.2 | 5685.8 | 5847.6 | 5813.7 | 5867.6 | 6394.4 | 6462.2 | 5379.3 |
| 57.5° | 2507.9 | 2648.0 | 3184.1 | 4256.3 | 5139.0 | 5759.8 | 5795.2 | 5705.9 | 5983.1 | 6009.3 | 4689.2 |
| 60°   | 1352.5 | 1411.1 | 1842.4 | 2840.6 | 3912.8 | 4693.8 | 4786.2 | 4624.5 | 4602.9 | 4528.9 | 3347.4 |
| 62.5° | 537.6  | 566.9  | 811.8  | 1406.4 | 2132.0 | 2852.9 | 3051.6 | 2985.4 | 2843.7 | 2649.6 | 1733.0 |
| 65°   | 255.7  | 274.2  | 403.6  | 657.8  | 945.8  | 1189.2 | 1388.0 | 1449.6 | 1069.1 | 962.8  | 571.5  |
| 67.5° | 174.1  | 187.9  | 294.2  | 375.9  | 337.4  | 352.8  | 459.1  | 426.7  | 251.1  | 214.1  | 158.7  |
| 70°   | 132.5  | 141.7  | 235.7  | 255.7  | 151.0  | 106.3  | 118.6  | 110.9  | 103.2  | 104.8  | 103.2  |
| 72.5° | 94.0   | 101.7  | 172.5  | 151.0  | 66.2   | 49.3   | 63.2   | 75.5   | 75.5   | 75.5   | 73.9   |
| 75°   | 57.0   | 64.7   | 100.1  | 58.5   | 26.2   | 26.2   | 40.1   | 50.8   | 53.9   | 55.5   | 52.4   |
| 77.5° | 29.3   | 37.0   | 33.9   | 16.9   | 16.9   | 20.0   | 29.3   | 35.4   | 38.5   | 38.5   | 37.0   |
| 80°   | 6.2    | 6.2    | 6.2    | 9.2    | 16.9   | 21.6   | 29.3   | 32.3   | 37.0   | 37.0   | 33.9   |
| 82.5° | 0.0    | 1.5    | 4.6    | 9.2    | 15.4   | 20.0   | 27.7   | 32.3   | 37.0   | 38.5   | 35.4   |
| 85°   | 0.0    | 1.5    | 3.1    | 6.2    | 10.8   | 12.3   | 10.8   | 9.2    | 9.2    | 9.2    | 9.2    |
| 87.5° | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 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°    | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 | 2215.2 |
| 2.5°  | 2236.7 | 2241.4 | 2233.7 | 2232.1 | 2226.0 | 2244.4 | 2199.8 | 2189.0 | 2216.7 | 2190.5 | 2196.7 |
| 5°    | 2266.0 | 2276.8 | 2262.9 | 2239.8 | 2205.9 | 2153.6 | 2108.9 | 2050.3 | 2022.6 | 2002.6 | 1999.5 |
| 7.5°  | 2287.6 | 2295.3 | 2281.4 | 2207.5 | 2105.8 | 1973.3 | 1874.7 | 1802.3 | 1745.3 | 1728.4 | 1700.7 |
| 10°   | 2375.4 | 2376.9 | 2307.6 | 2144.3 | 1945.6 | 1771.5 | 1620.6 | 1509.6 | 1452.7 | 1417.2 | 1401.8 |
| 12.5° | 2433.9 | 2430.8 | 2290.7 | 2019.5 | 1754.6 | 1523.5 | 1351.0 | 1217.0 | 1164.6 | 1147.6 | 1136.9 |
| 15°   | 2507.9 | 2490.9 | 2250.6 | 1891.7 | 1508.1 | 1258.6 | 1103.0 | 1010.5 | 1005.9 | 995.1  | 1005.9 |
| 17.5° | 2566.4 | 2518.6 | 2192.1 | 1659.1 | 1272.4 | 1036.7 | 935.1  | 941.2  | 953.5  | 964.3  | 965.9  |
| 20°   | 2661.9 | 2563.3 | 2058.1 | 1455.7 | 1053.7 | 888.8  | 887.3  | 915.0  | 945.8  | 958.2  | 970.5  |
| 22.5° | 2734.3 | 2581.8 | 1914.8 | 1238.5 | 875.0  | 828.8  | 855.0  | 896.5  | 919.7  | 932.0  | 950.5  |
| 25°   | 2760.5 | 2531.0 | 1723.8 | 1021.3 | 788.7  | 801.0  | 841.1  | 868.8  | 898.1  | 912.0  | 904.2  |
| 27.5° | 2786.7 | 2504.8 | 1495.8 | 841.1  | 742.5  | 782.6  | 816.4  | 844.2  | 853.4  | 871.9  | 884.2  |
| 30°   | 2849.8 | 2413.9 | 1290.9 | 727.1  | 719.4  | 770.2  | 794.9  | 804.1  | 828.8  | 839.5  | 839.5  |
| 32.5° | 2900.7 | 2378.5 | 1073.7 | 673.2  | 716.3  | 776.4  | 779.5  | 779.5  | 782.6  | 774.9  | 771.8  |
| 35°   | 3005.4 | 2256.8 | 879.6  | 640.8  | 714.8  | 777.9  | 785.6  | 759.4  | 688.6  | 660.9  | 653.2  |
| 37.5° | 3134.8 | 2178.2 | 736.3  | 633.1  | 725.6  | 796.4  | 808.7  | 710.2  | 617.7  | 573.1  | 565.3  |
| 40°   | 3292.0 | 2122.8 | 642.4  | 630.0  | 750.2  | 839.5  | 802.6  | 671.6  | 551.5  | 486.8  | 483.7  |
| 42.5° | 3475.3 | 2071.9 | 579.2  | 628.5  | 781.0  | 884.2  | 796.4  | 639.3  | 483.7  | 440.6  | 446.7  |
| 45°   | 3621.6 | 2044.2 | 536.1  | 617.7  | 791.8  | 910.4  | 801.0  | 582.3  | 456.0  | 428.2  | 431.3  |
| 47.5° | 3735.6 | 1985.7 | 500.6  | 599.2  | 790.3  | 919.7  | 759.4  | 559.2  | 442.1  | 449.8  | 457.5  |
| 50°   | 3738.7 | 1907.1 | 456.0  | 559.2  | 767.1  | 902.7  | 711.7  | 537.6  | 439.0  | 471.4  | 486.8  |
| 52.5° | 3697.1 | 1796.2 | 408.2  | 502.2  | 713.2  | 844.2  | 668.6  | 528.4  | 425.2  | 422.1  | 440.6  |
| 55°   | 3549.2 | 1588.2 | 328.1  | 406.7  | 602.3  | 696.3  | 630.0  | 511.4  | 383.6  | 348.1  | 351.2  |
| 57.5° | 2868.3 | 1138.4 | 241.9  | 291.1  | 426.7  | 509.9  | 568.4  | 503.7  | 345.1  | 295.8  | 297.3  |
| 60°   | 1776.1 | 645.5  | 177.2  | 198.7  | 263.4  | 309.6  | 460.6  | 468.3  | 308.1  | 249.6  | 246.5  |
| 62.5° | 912.0  | 318.9  | 137.1  | 140.2  | 161.7  | 181.8  | 315.8  | 392.8  | 278.8  | 237.2  | 237.2  |
| 65°   | 305.0  | 157.1  | 120.2  | 107.8  | 107.8  | 112.5  | 191.0  | 272.7  | 235.7  | 198.7  | 198.7  |
| 67.5° | 130.9  | 117.1  | 104.8  | 94.0   | 86.3   | 81.6   | 107.8  | 158.7  | 175.6  | 151.0  | 144.8  |
| 70°   | 101.7  | 98.6   | 90.9   | 78.6   | 67.8   | 61.6   | 63.2   | 81.6   | 100.1  | 97.0   | 94.0   |
| 72.5° | 75.5   | 75.5   | 72.4   | 61.6   | 52.4   | 44.7   | 41.6   | 43.1   | 47.8   | 49.3   | 50.8   |
| 75°   | 52.4   | 53.9   | 53.9   | 47.8   | 38.5   | 32.3   | 27.7   | 23.1   | 18.5   | 15.4   | 13.9   |
| 77.5° | 35.4   | 37.0   | 40.1   | 35.4   | 29.3   | 21.6   | 16.9   | 12.3   | 7.7    | 3.1    | 3.1    |
| 80°   | 30.8   | 35.4   | 38.5   | 35.4   | 30.8   | 23.1   | 16.9   | 9.2    | 4.6    | 0.0    | 0.0    |
| 82.5° | 32.3   | 35.4   | 40.1   | 33.9   | 29.3   | 21.6   | 16.9   | 10.8   | 4.6    | 1.5    | 0.0    |
| 85°   | 7.7    | 7.7    | 9.2    | 10.8   | 13.9   | 15.4   | 12.3   | 7.7    | 4.6    | 1.5    | 0.0    |
| 87.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 1.5    | 1.5    | 1.5    | 1.5    | 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)