

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: P528609

Luminaire Tested: **GLAN-SA3D-722-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528609  
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-SA3D-722-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 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: 10325 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 184  
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

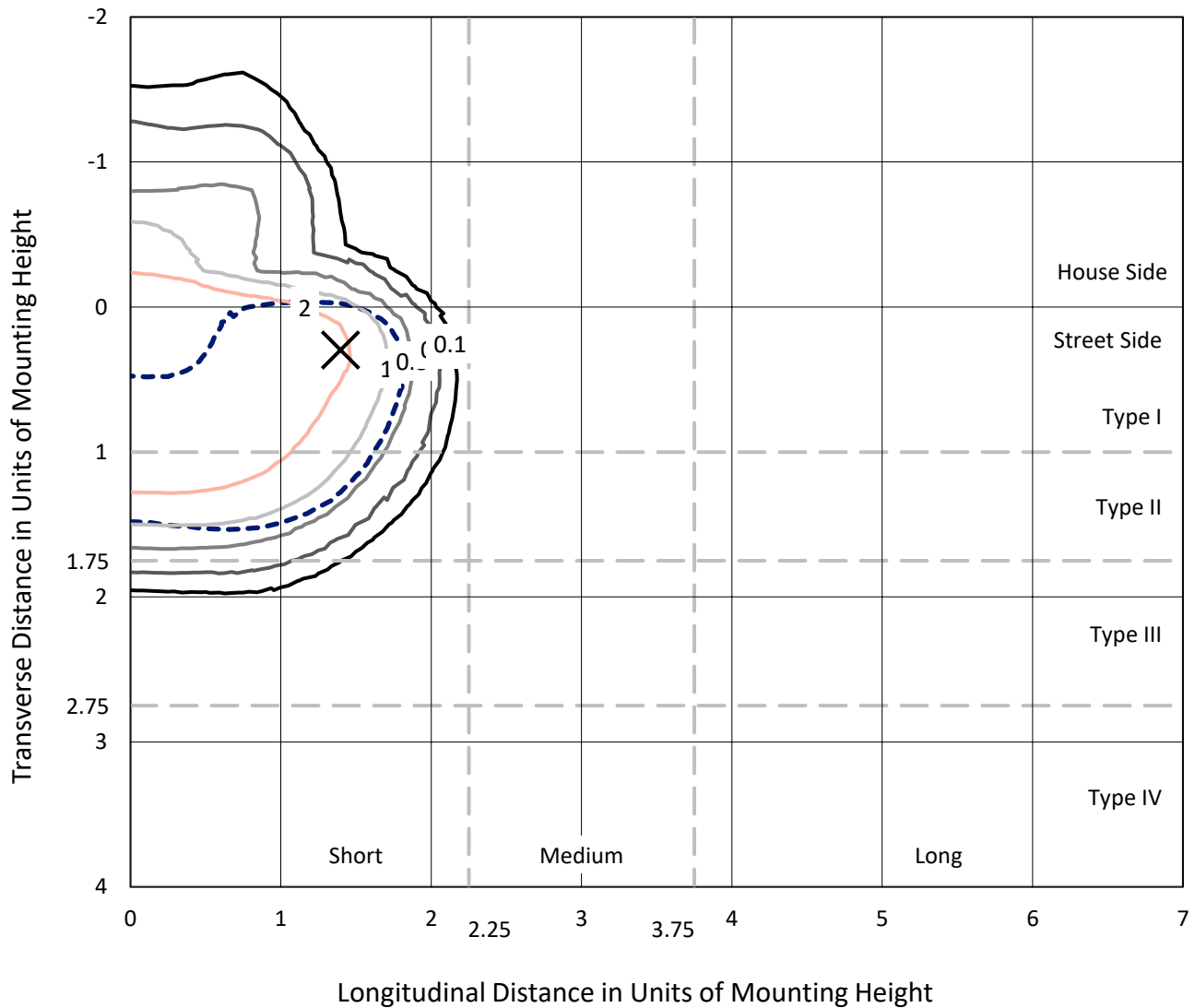


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

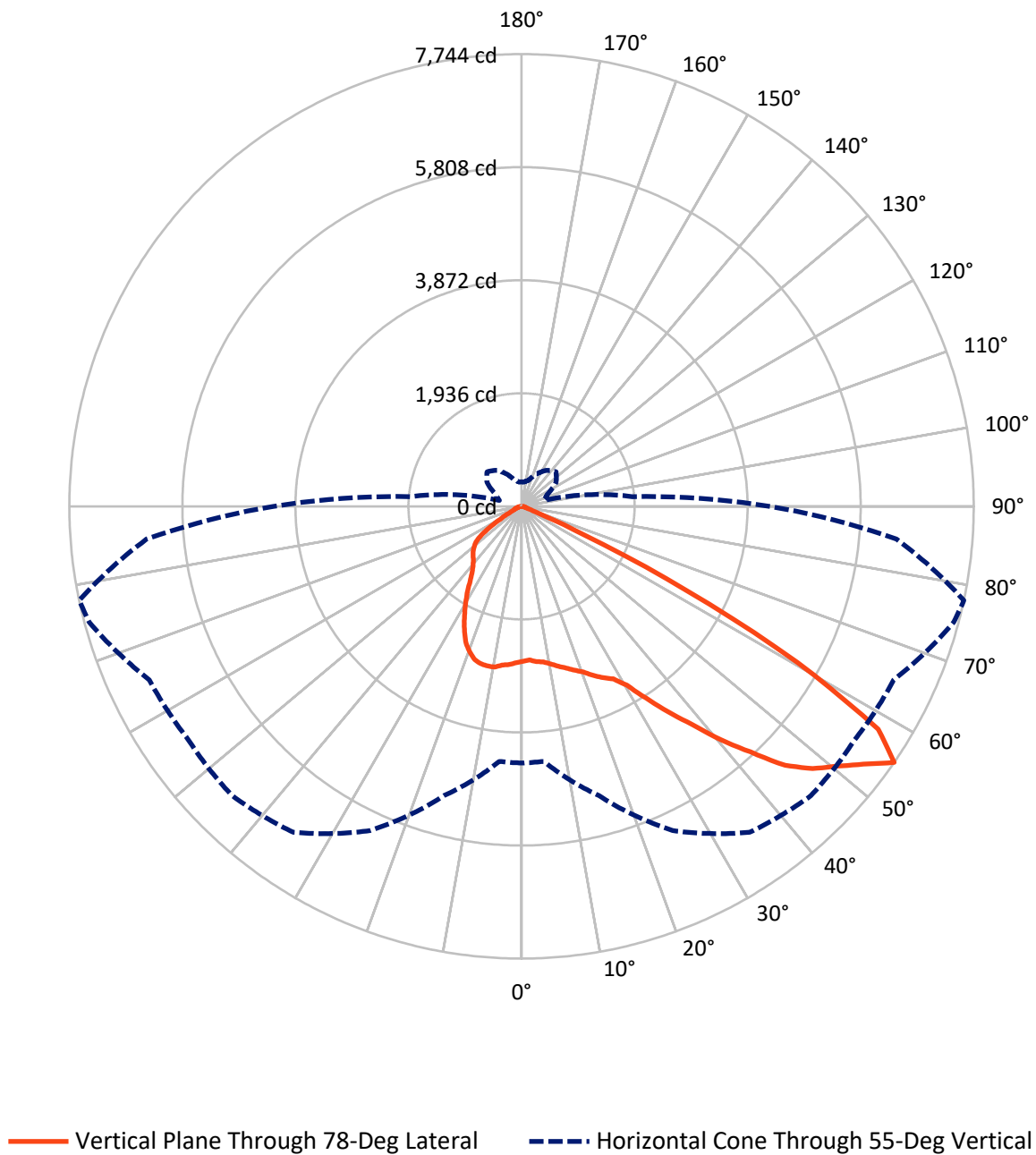


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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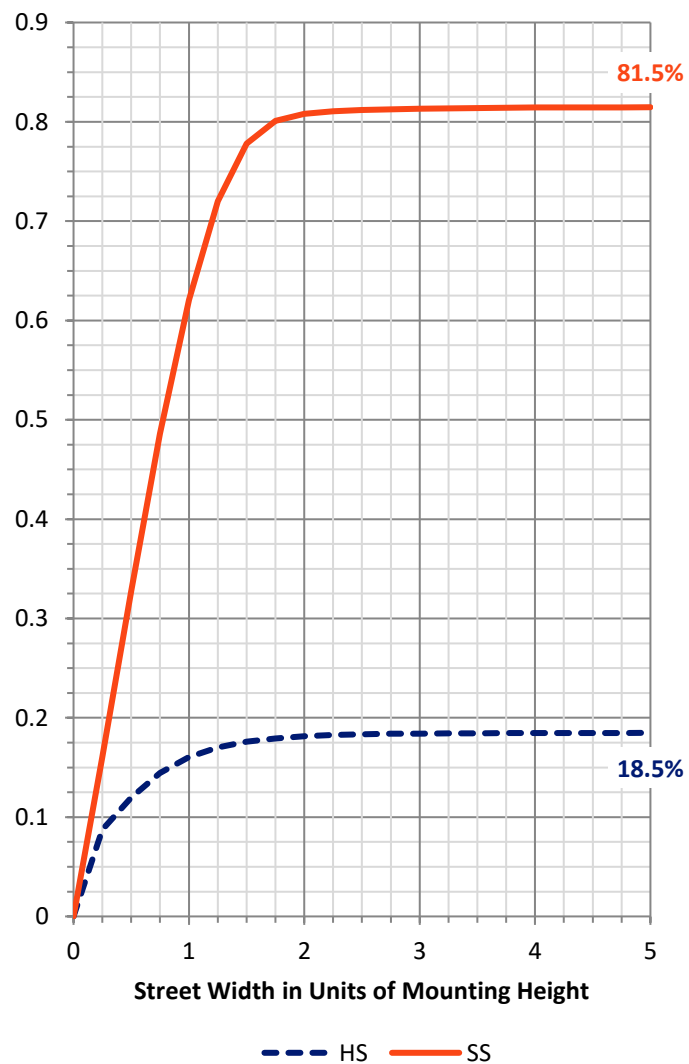
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1917.7   | 0.0    | 1917.7  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 8407.2   | 0.0    | 8407.2  |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 10325.0  | 0.0    | 10325.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 236.7   | 2.3       |
| 10°-20°   | 626.4   | 6.1       |
| 20°-30°   | 1098.0  | 10.6      |
| 30°-40°   | 1810.5  | 17.5      |
| 40°-50°   | 2634.5  | 25.5      |
| 50°-60°   | 2985.2  | 28.9      |
| 60°-70°   | 853.5   | 8.3       |
| 70°-80°   | 66.3    | 0.6       |
| 80°-90°   | 13.8    | 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°    | 10325.0 | 100.0     |
| 0°-180°   | 10325.0 | 100.0     |

**Coefficient of Utilization**



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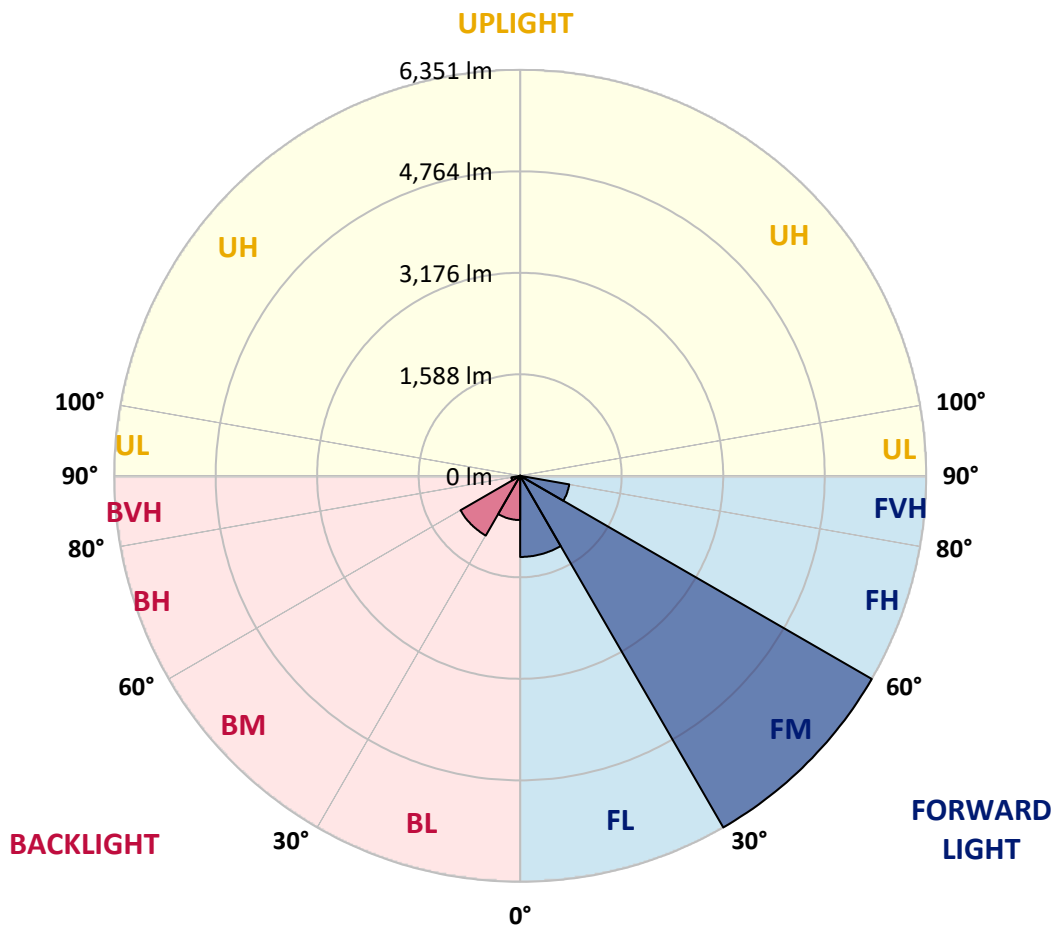
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1269.2 | 12.3      |                         |      |         |
| FM   | (30°-60°)   | 6351.5 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 779.8  | 7.6       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 6.7    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 691.9  | 6.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1078.8 | 10.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 140.0  | 1.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 7.1    | 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°    | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 |
| 2.5°  | 2495.8 | 2519.8 | 2523.5 | 2553.0 | 2551.2 | 2601.0 | 2615.8 | 2617.6 | 2650.9 | 2634.3 | 2676.7 |
| 5°    | 2425.7 | 2412.7 | 2407.2 | 2458.9 | 2473.7 | 2518.0 | 2554.9 | 2577.0 | 2645.3 | 2669.3 | 2713.6 |
| 7.5°  | 2362.9 | 2362.9 | 2366.6 | 2412.7 | 2407.2 | 2464.4 | 2503.2 | 2571.5 | 2671.2 | 2691.5 | 2745.0 |
| 10°   | 2302.0 | 2279.8 | 2307.5 | 2355.5 | 2396.1 | 2422.0 | 2503.2 | 2567.8 | 2684.1 | 2743.2 | 2817.0 |
| 12.5° | 2270.6 | 2281.7 | 2285.4 | 2320.4 | 2364.7 | 2442.3 | 2486.6 | 2593.6 | 2776.4 | 2811.5 | 2890.9 |
| 15°   | 2468.1 | 2446.0 | 2392.4 | 2361.0 | 2398.0 | 2434.9 | 2545.6 | 2654.6 | 2824.4 | 2874.2 | 2962.8 |
| 17.5° | 2697.0 | 2678.6 | 2634.3 | 2549.3 | 2466.3 | 2534.6 | 2621.3 | 2721.0 | 2876.1 | 2949.9 | 3081.0 |
| 20°   | 2996.1 | 2966.5 | 2922.2 | 2756.1 | 2684.1 | 2610.3 | 2702.6 | 2820.7 | 2961.0 | 3027.5 | 3162.2 |
| 22.5° | 3352.4 | 3352.4 | 3252.7 | 3051.5 | 2901.9 | 2831.8 | 2870.5 | 2938.8 | 3055.1 | 3145.6 | 3278.5 |
| 25°   | 3723.4 | 3712.3 | 3621.9 | 3413.3 | 3160.4 | 3077.3 | 3121.6 | 3169.6 | 3201.0 | 3250.8 | 3339.4 |
| 27.5° | 4148.0 | 4083.4 | 3968.9 | 3738.2 | 3514.8 | 3354.2 | 3402.2 | 3359.7 | 3321.0 | 3346.8 | 3474.2 |
| 30°   | 4436.0 | 4476.6 | 4330.7 | 4109.2 | 3898.8 | 3719.7 | 3728.9 | 3692.0 | 3514.8 | 3551.7 | 3627.4 |
| 32.5° | 4735.0 | 4760.9 | 4679.6 | 4557.8 | 4347.4 | 4138.8 | 4063.1 | 4031.7 | 3898.8 | 3915.4 | 3841.5 |
| 35°   | 4984.2 | 5034.1 | 4962.1 | 4908.5 | 4847.6 | 4679.6 | 4471.0 | 4572.6 | 4358.4 | 4317.8 | 4125.8 |
| 37.5° | 5213.1 | 5198.4 | 5283.3 | 5227.9 | 5215.0 | 5096.8 | 4867.9 | 4888.2 | 4744.2 | 4735.0 | 4513.5 |
| 40°   | 5418.0 | 5421.7 | 5538.0 | 5563.9 | 5512.2 | 5301.7 | 4969.5 | 5130.1 | 5246.4 | 5257.4 | 4973.2 |
| 42.5° | 5587.9 | 5637.7 | 5737.4 | 5946.0 | 5868.5 | 5517.7 | 5074.7 | 5250.1 | 5682.0 | 5750.3 | 5408.8 |
| 45°   | 5735.6 | 5837.1 | 5960.8 | 6147.2 | 6102.9 | 5824.2 | 5336.8 | 5497.4 | 6147.2 | 6326.3 | 5818.6 |
| 47.5° | 5744.8 | 5877.7 | 6012.5 | 6289.4 | 6344.7 | 5988.5 | 5608.2 | 5888.8 | 6516.4 | 6710.2 | 6117.7 |
| 50°   | 5707.9 | 5778.0 | 6047.5 | 6348.4 | 6474.0 | 6256.1 | 5988.5 | 6217.4 | 6874.5 | 6996.4 | 6269.1 |
| 52.5° | 5270.4 | 5323.9 | 5864.8 | 6403.8 | 6706.6 | 6558.9 | 6492.4 | 6675.2 | 7240.1 | 7330.5 | 6411.2 |
| 55°   | 4393.5 | 4384.3 | 5128.2 | 6125.1 | 6813.6 | 7007.5 | 6966.8 | 7031.5 | 7662.8 | 7744.0 | 6446.3 |
| 57.5° | 3005.3 | 3173.3 | 3815.7 | 5100.5 | 6158.3 | 6902.2 | 6944.7 | 6837.6 | 7169.9 | 7201.3 | 5619.3 |
| 60°   | 1620.8 | 1690.9 | 2207.8 | 3404.0 | 4688.9 | 5624.8 | 5735.6 | 5541.7 | 5515.9 | 5427.3 | 4011.4 |
| 62.5° | 644.3  | 679.3  | 972.8  | 1685.4 | 2554.9 | 3418.8 | 3656.9 | 3577.6 | 3407.7 | 3175.1 | 2076.8 |
| 65°   | 306.4  | 328.6  | 483.7  | 788.2  | 1133.5 | 1425.1 | 1663.3 | 1737.1 | 1281.1 | 1153.8 | 684.9  |
| 67.5° | 208.6  | 225.2  | 352.6  | 450.4  | 404.3  | 422.7  | 550.1  | 511.3  | 300.9  | 256.6  | 190.1  |
| 70°   | 158.8  | 169.8  | 282.4  | 306.4  | 180.9  | 127.4  | 142.1  | 132.9  | 123.7  | 125.5  | 123.7  |
| 72.5° | 112.6  | 121.8  | 206.8  | 180.9  | 79.4   | 59.1   | 75.7   | 90.5   | 90.5   | 90.5   | 88.6   |
| 75°   | 68.3   | 77.5   | 120.0  | 70.1   | 31.4   | 31.4   | 48.0   | 60.9   | 64.6   | 66.5   | 62.8   |
| 77.5° | 35.1   | 44.3   | 40.6   | 20.3   | 20.3   | 24.0   | 35.1   | 42.5   | 46.2   | 46.2   | 44.3   |
| 80°   | 7.4    | 7.4    | 7.4    | 11.1   | 20.3   | 25.8   | 35.1   | 38.8   | 44.3   | 44.3   | 40.6   |
| 82.5° | 0.0    | 1.8    | 5.5    | 11.1   | 18.5   | 24.0   | 33.2   | 38.8   | 44.3   | 46.2   | 42.5   |
| 85°   | 0.0    | 1.8    | 3.7    | 7.4    | 12.9   | 14.8   | 12.9   | 11.1   | 11.1   | 11.1   | 11.1   |
| 87.5° | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 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°    | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 |
| 2.5°  | 2680.4 | 2685.9 | 2676.7 | 2674.9 | 2667.5 | 2689.6 | 2636.1 | 2623.2 | 2656.4 | 2625.0 | 2632.4 |
| 5°    | 2715.5 | 2728.4 | 2711.8 | 2684.1 | 2643.5 | 2580.7 | 2527.2 | 2457.0 | 2423.8 | 2399.8 | 2396.1 |
| 7.5°  | 2741.3 | 2750.6 | 2733.9 | 2645.3 | 2523.5 | 2364.7 | 2246.6 | 2159.8 | 2091.5 | 2071.2 | 2038.0 |
| 10°   | 2846.5 | 2848.4 | 2765.3 | 2569.6 | 2331.5 | 2122.9 | 1942.0 | 1809.1 | 1740.8 | 1698.3 | 1679.9 |
| 12.5° | 2916.7 | 2913.0 | 2745.0 | 2420.1 | 2102.6 | 1825.7 | 1619.0 | 1458.3 | 1395.6 | 1375.3 | 1362.4 |
| 15°   | 3005.3 | 2985.0 | 2697.0 | 2266.9 | 1807.2 | 1508.2 | 1321.7 | 1211.0 | 1205.4 | 1192.5 | 1205.4 |
| 17.5° | 3075.5 | 3018.2 | 2626.9 | 1988.2 | 1524.8 | 1242.4 | 1120.5 | 1127.9 | 1142.7 | 1155.6 | 1157.4 |
| 20°   | 3189.9 | 3071.8 | 2466.3 | 1744.5 | 1262.7 | 1065.1 | 1063.3 | 1096.5 | 1133.5 | 1148.2 | 1163.0 |
| 22.5° | 3276.7 | 3093.9 | 2294.6 | 1484.2 | 1048.5 | 993.2  | 1024.5 | 1074.4 | 1102.1 | 1116.8 | 1139.0 |
| 25°   | 3308.1 | 3033.0 | 2065.7 | 1223.9 | 945.2  | 959.9  | 1007.9 | 1041.2 | 1076.2 | 1092.8 | 1083.6 |
| 27.5° | 3339.4 | 3001.6 | 1792.5 | 1007.9 | 889.8  | 937.8  | 978.4  | 1011.6 | 1022.7 | 1044.8 | 1059.6 |
| 30°   | 3415.1 | 2892.7 | 1547.0 | 871.3  | 862.1  | 923.0  | 952.5  | 963.6  | 993.2  | 1006.1 | 1006.1 |
| 32.5° | 3476.0 | 2850.2 | 1286.7 | 806.7  | 858.4  | 930.4  | 934.1  | 934.1  | 937.8  | 928.5  | 924.9  |
| 35°   | 3601.6 | 2704.4 | 1054.1 | 767.9  | 856.5  | 932.2  | 941.5  | 910.1  | 825.2  | 791.9  | 782.7  |
| 37.5° | 3756.6 | 2610.3 | 882.4  | 758.7  | 869.5  | 954.4  | 969.2  | 851.0  | 740.3  | 686.7  | 677.5  |
| 40°   | 3944.9 | 2543.8 | 769.8  | 755.0  | 899.0  | 1006.1 | 961.8  | 804.9  | 660.9  | 583.3  | 579.6  |
| 42.5° | 4164.6 | 2482.9 | 694.1  | 753.2  | 935.9  | 1059.6 | 954.4  | 766.1  | 579.6  | 528.0  | 535.3  |
| 45°   | 4340.0 | 2449.7 | 642.4  | 740.3  | 948.8  | 1091.0 | 959.9  | 697.8  | 546.4  | 513.2  | 516.9  |
| 47.5° | 4476.6 | 2379.5 | 600.0  | 718.1  | 947.0  | 1102.1 | 910.1  | 670.1  | 529.8  | 539.0  | 548.3  |
| 50°   | 4480.3 | 2285.4 | 546.4  | 670.1  | 919.3  | 1081.8 | 852.9  | 644.3  | 526.1  | 564.9  | 583.3  |
| 52.5° | 4430.4 | 2152.4 | 489.2  | 601.8  | 854.7  | 1011.6 | 801.2  | 633.2  | 509.5  | 505.8  | 528.0  |
| 55°   | 4253.2 | 1903.2 | 393.2  | 487.3  | 721.8  | 834.4  | 755.0  | 612.9  | 459.7  | 417.2  | 420.9  |
| 57.5° | 3437.3 | 1364.2 | 289.8  | 348.9  | 511.3  | 611.0  | 681.2  | 603.6  | 413.5  | 354.4  | 356.3  |
| 60°   | 2128.5 | 773.5  | 212.3  | 238.1  | 315.7  | 371.0  | 552.0  | 561.2  | 369.2  | 299.1  | 295.4  |
| 62.5° | 1092.8 | 382.1  | 164.3  | 168.0  | 193.8  | 217.8  | 378.4  | 470.7  | 334.1  | 284.3  | 284.3  |
| 65°   | 365.5  | 188.3  | 144.0  | 129.2  | 129.2  | 134.8  | 228.9  | 326.7  | 282.4  | 238.1  | 238.1  |
| 67.5° | 156.9  | 140.3  | 125.5  | 112.6  | 103.4  | 97.8   | 129.2  | 190.1  | 210.4  | 180.9  | 173.5  |
| 70°   | 121.8  | 118.1  | 108.9  | 94.1   | 81.2   | 73.8   | 75.7   | 97.8   | 120.0  | 116.3  | 112.6  |
| 72.5° | 90.5   | 90.5   | 86.8   | 73.8   | 62.8   | 53.5   | 49.8   | 51.7   | 57.2   | 59.1   | 60.9   |
| 75°   | 62.8   | 64.6   | 64.6   | 57.2   | 46.2   | 38.8   | 33.2   | 27.7   | 22.2   | 18.5   | 16.6   |
| 77.5° | 42.5   | 44.3   | 48.0   | 42.5   | 35.1   | 25.8   | 20.3   | 14.8   | 9.2    | 3.7    | 3.7    |
| 80°   | 36.9   | 42.5   | 46.2   | 42.5   | 36.9   | 27.7   | 20.3   | 11.1   | 5.5    | 0.0    | 0.0    |
| 82.5° | 38.8   | 42.5   | 48.0   | 40.6   | 35.1   | 25.8   | 20.3   | 12.9   | 5.5    | 1.8    | 0.0    |
| 85°   | 9.2    | 9.2    | 11.1   | 12.9   | 16.6   | 18.5   | 14.8   | 9.2    | 5.5    | 1.8    | 0.0    |
| 87.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 1.8    | 1.8    | 1.8    | 1.8    | 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)