

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: P323777

Luminaire Tested: **GAN-SA3D-727-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3D-727-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16079 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 191  
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

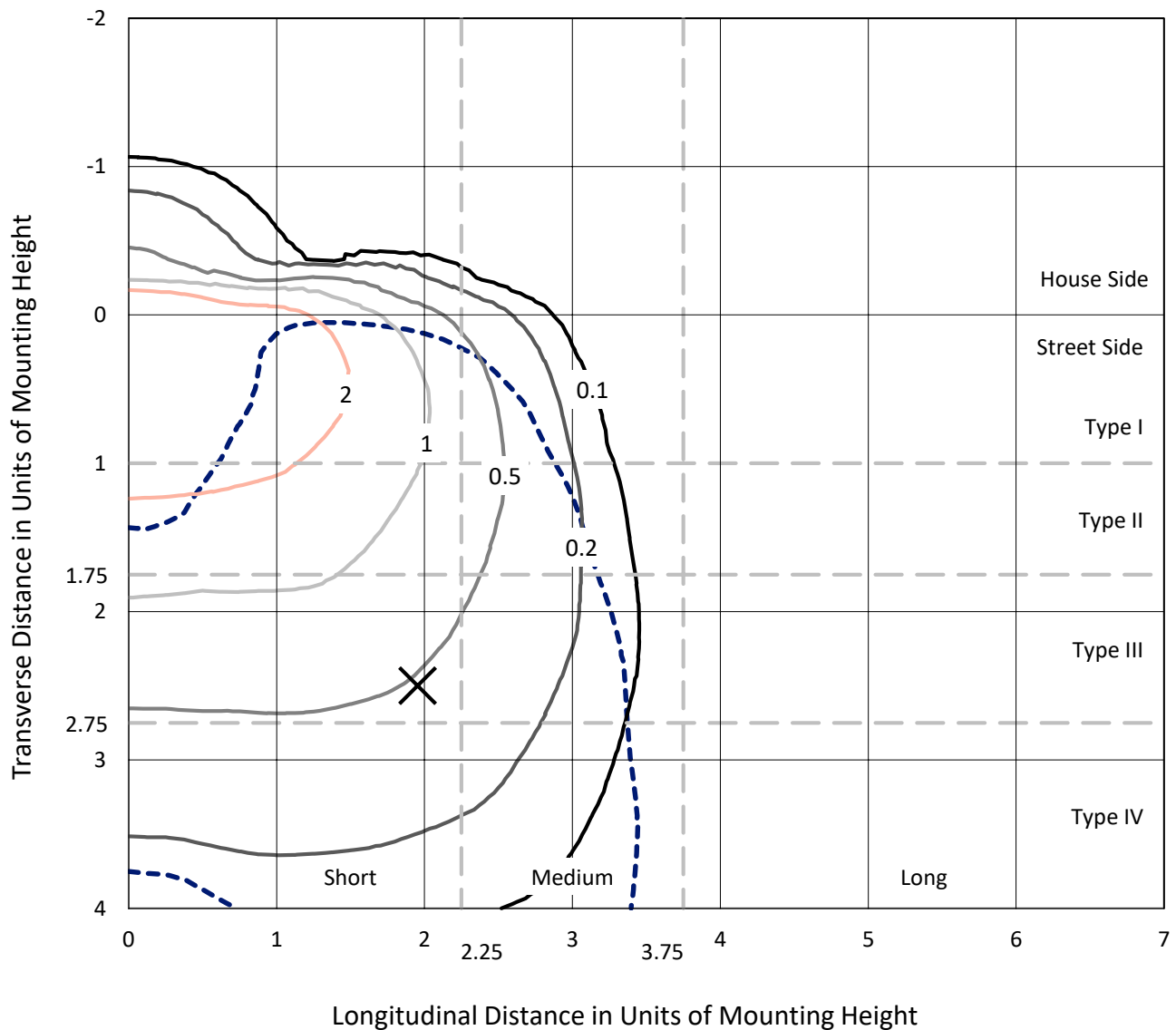


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## Iso-Footcandle Lines of Horizontal Illumination

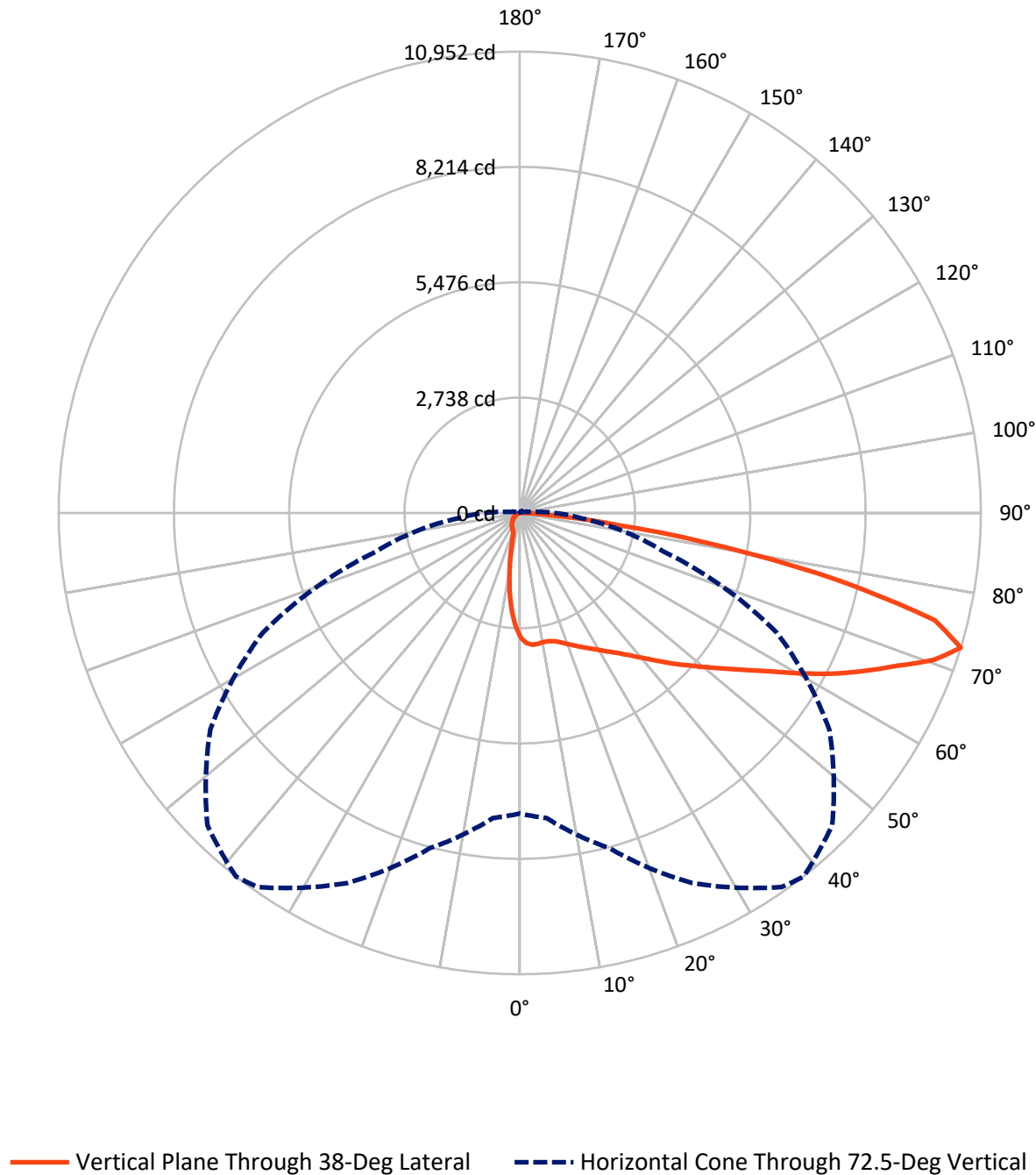
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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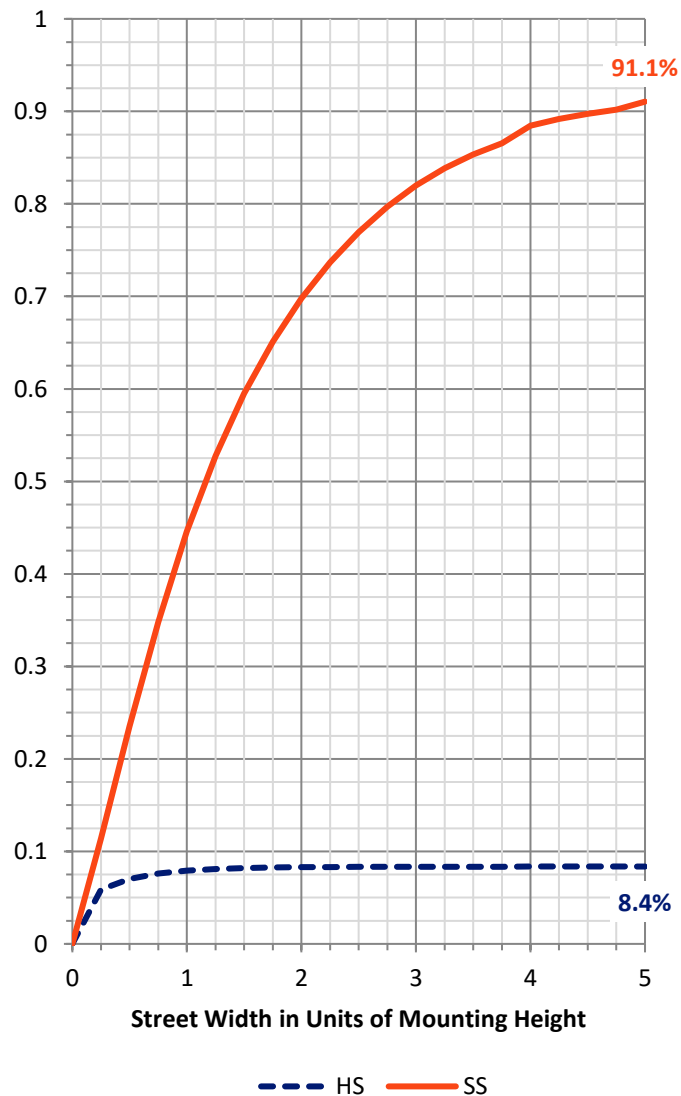
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1353.1   | 0.0    | 1353.1  |
|                    | % Fixture | 8.4      | 0.0    | 8.4     |
| <b>Street Side</b> | Lumens    | 14725.9  | 0.0    | 14725.9 |
|                    | % Fixture | 91.6     | 0.0    | 91.6    |
| <b>Total</b>       | Lumens    | 16079.0  | 0.0    | 16079.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 252.0   | 1.6       |
| 10°-20°   | 616.2   | 3.8       |
| 20°-30°   | 980.0   | 6.1       |
| 30°-40°   | 1473.3  | 9.2       |
| 40°-50°   | 2247.6  | 14.0      |
| 50°-60°   | 3176.6  | 19.8      |
| 60°-70°   | 3984.6  | 24.8      |
| 70°-80°   | 2979.3  | 18.5      |
| 80°-90°   | 369.4   | 2.3       |
| 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°    | 16079.0 | 100.0     |
| 0°-180°   | 16079.0 | 100.0     |

**Coefficient of Utilization**



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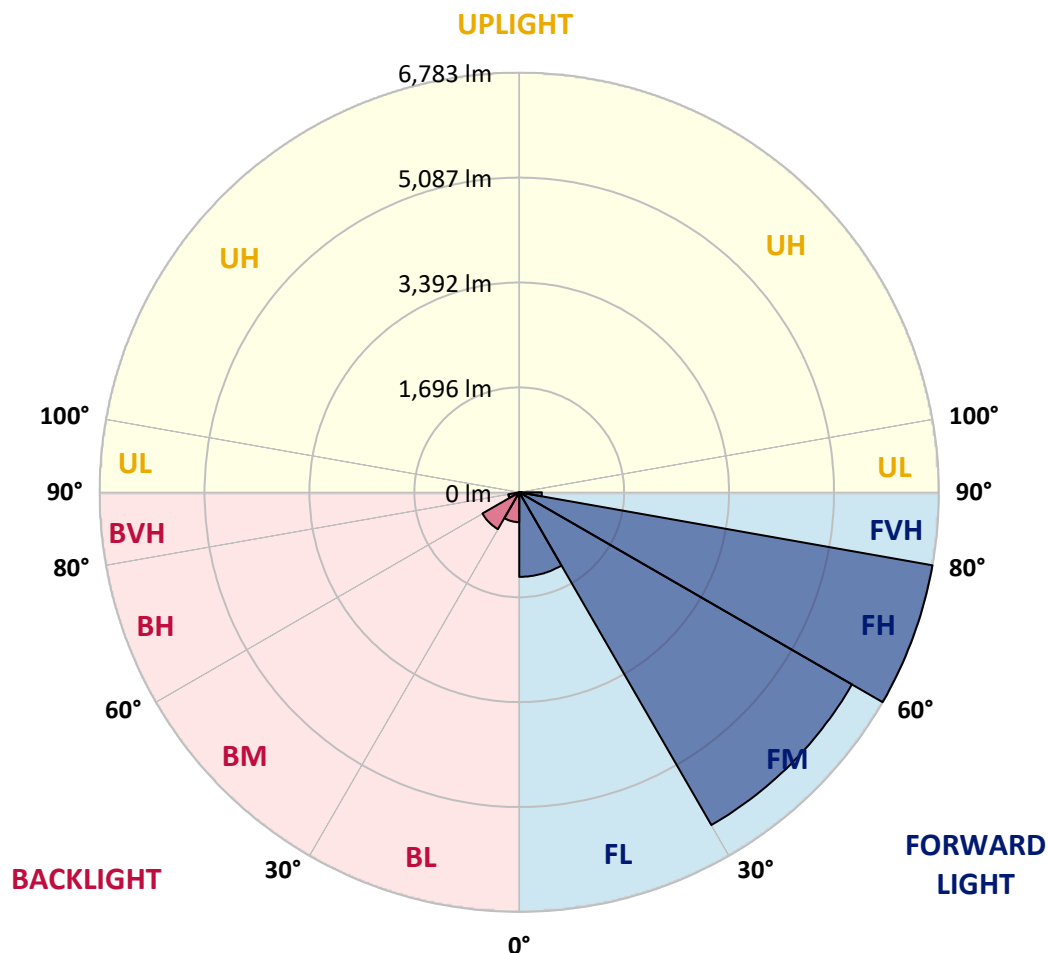
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1366.3 | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 6210.4 | 38.6      |                         |      |         |
| FH   | (60°-80°)   | 6783.2 | 42.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 366.0  | 2.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 481.8  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 687.1  | 4.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 180.7  | 1.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.4    | 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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 38°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2956.9 | 2956.9 | 2956.9 | 2956.9 | 2956.9  | 2956.9  | 2956.9  | 2956.9 | 2956.9 | 2956.9 | 2956.9 |
| 2.5°  | 3138.5 | 3139.2 | 3131.8 | 3119.8 | 3104.5  | 3096.4  | 3083.1  | 3061.7 | 3039.0 | 2998.3 | 2954.2 |
| 5°    | 3202.6 | 3202.6 | 3193.3 | 3177.2 | 3152.5  | 3145.2  | 3119.8  | 3085.8 | 3039.0 | 2972.9 | 2898.8 |
| 7.5°  | 3195.9 | 3197.3 | 3184.6 | 3167.9 | 3143.2  | 3136.5  | 3105.8  | 3067.7 | 3009.6 | 2929.5 | 2834.7 |
| 10°   | 3161.2 | 3164.6 | 3154.5 | 3146.5 | 3123.8  | 3116.5  | 3087.8  | 3049.7 | 2991.6 | 2906.1 | 2797.3 |
| 12.5° | 3125.8 | 3129.2 | 3132.5 | 3139.8 | 3125.8  | 3123.1  | 3100.4  | 3068.4 | 3013.0 | 2924.2 | 2801.3 |
| 15°   | 3103.1 | 3109.8 | 3133.8 | 3162.5 | 3165.9  | 3163.2  | 3148.5  | 3118.5 | 3062.4 | 2970.2 | 2830.0 |
| 17.5° | 3103.1 | 3113.8 | 3163.9 | 3218.6 | 3238.0  | 3240.0  | 3227.3  | 3185.3 | 3118.5 | 3019.6 | 2856.7 |
| 20°   | 3129.2 | 3143.9 | 3222.0 | 3299.4 | 3331.5  | 3331.5  | 3306.8  | 3248.0 | 3169.9 | 3064.4 | 2874.7 |
| 22.5° | 3195.9 | 3215.3 | 3313.5 | 3402.9 | 3437.0  | 3429.7  | 3396.3  | 3310.8 | 3223.3 | 3115.1 | 2897.4 |
| 25°   | 3327.5 | 3342.2 | 3444.3 | 3534.5 | 3555.2  | 3538.5  | 3496.4  | 3386.9 | 3291.4 | 3183.9 | 2938.8 |
| 27.5° | 3497.1 | 3499.1 | 3604.6 | 3680.7 | 3668.0  | 3656.7  | 3603.9  | 3482.4 | 3389.6 | 3282.1 | 3010.3 |
| 30°   | 3683.4 | 3683.4 | 3776.2 | 3834.3 | 3795.6  | 3786.2  | 3733.5  | 3597.9 | 3515.1 | 3415.6 | 3111.8 |
| 32.5° | 3863.7 | 3871.7 | 3947.2 | 3983.9 | 3940.5  | 3931.1  | 3879.7  | 3744.2 | 3682.1 | 3619.3 | 3270.1 |
| 35°   | 4038.0 | 4044.0 | 4115.5 | 4135.5 | 4094.1  | 4096.8  | 4060.0  | 3945.2 | 3921.8 | 3913.8 | 3508.5 |
| 37.5° | 4206.9 | 4208.3 | 4281.1 | 4293.7 | 4273.0  | 4295.7  | 4299.1  | 4197.6 | 4241.0 | 4305.8 | 3844.3 |
| 40°   | 4361.2 | 4362.5 | 4434.6 | 4467.4 | 4502.8  | 4532.1  | 4558.2  | 4504.1 | 4647.7 | 4797.9 | 4244.3 |
| 42.5° | 4484.7 | 4498.8 | 4590.2 | 4652.3 | 4745.8  | 4801.9  | 4872.7  | 4870.0 | 5131.8 | 5357.5 | 4727.8 |
| 45°   | 4593.6 | 4617.6 | 4745.2 | 4854.0 | 5014.3  | 5103.7  | 5214.6  | 5301.4 | 5676.7 | 5980.5 | 5217.3 |
| 47.5° | 4737.1 | 4759.8 | 4905.4 | 5083.7 | 5297.4  | 5414.9  | 5598.6  | 5786.2 | 6275.7 | 6592.2 | 5695.4 |
| 50°   | 4939.5 | 4929.5 | 5073.0 | 5328.8 | 5603.2  | 5757.5  | 6019.3  | 6300.4 | 6870.0 | 7125.1 | 5976.5 |
| 52.5° | 5155.2 | 5151.2 | 5257.3 | 5595.2 | 5963.8  | 6144.1  | 6490.0  | 6831.9 | 7438.3 | 7492.4 | 6105.4 |
| 55°   | 5422.3 | 5393.6 | 5483.0 | 5899.1 | 6391.9  | 6585.5  | 6992.9  | 7358.1 | 7891.0 | 7699.4 | 6170.2 |
| 57.5° | 5702.1 | 5654.7 | 5740.1 | 6237.6 | 6874.7  | 7103.7  | 7549.8  | 7871.0 | 8192.2 | 7840.9 | 6169.5 |
| 60°   | 5991.2 | 5935.1 | 6036.6 | 6661.0 | 7474.3  | 7739.4  | 8153.4  | 8217.5 | 8473.3 | 7912.4 | 6124.1 |
| 62.5° | 6232.9 | 6199.6 | 6350.5 | 7113.7 | 8144.1  | 8404.5  | 8609.5  | 8532.7 | 8710.4 | 7967.8 | 6017.9 |
| 65°   | 6488.7 | 6490.7 | 6734.4 | 7641.9 | 8855.9  | 9031.6  | 9048.9  | 8941.4 | 8908.7 | 7956.5 | 5658.7 |
| 67.5° | 6834.6 | 6866.7 | 7273.3 | 8359.1 | 9548.4  | 9684.0  | 9682.6  | 9384.1 | 9053.6 | 7505.0 | 4862.0 |
| 70°   | 7200.5 | 7276.0 | 7894.3 | 9179.8 | 10304.3 | 10441.9 | 10371.1 | 9665.9 | 8524.7 | 6068.7 | 3441.0 |
| 72.5° | 7139.1 | 7270.0 | 8239.6 | 9697.3 | 10847.2 | 10952.1 | 10492.0 | 8973.5 | 6737.8 | 3527.1 | 1465.1 |
| 75°   | 5507.7 | 5659.3 | 7555.1 | 9184.5 | 10277.6 | 10183.5 | 9014.9  | 6982.8 | 3682.1 | 984.3  | 329.9  |
| 77.5° | 2909.5 | 2990.3 | 4990.9 | 6996.9 | 8013.9  | 7816.9  | 6350.5  | 3873.7 | 1122.5 | 243.7  | 148.2  |
| 80°   | 1523.8 | 1542.5 | 2174.9 | 3969.9 | 4946.2  | 4947.5  | 3763.5  | 1701.5 | 462.8  | 124.9  | 99.5   |
| 82.5° | 816.0  | 832.0  | 1149.2 | 1834.4 | 2591.6  | 2349.2  | 1441.0  | 936.2  | 269.1  | 70.8   | 95.5   |
| 85°   | 196.3  | 199.7  | 651.7  | 838.0  | 1019.0  | 727.9   | 428.0   | 786.0  | 72.8   | 41.4   | 77.5   |
| 87.5° | 75.5   | 76.8   | 241.7  | 362.6  | 259.8   | 168.3   | 200.3   | 293.1  | 9.3    | 16.0   | 12.0   |
| 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°    | 2956.9 | 2956.9 | 2956.9 | 2956.9 | 2956.9 | 2956.9 | 2956.9 | 2956.9 | 2956.9 | 2956.9 | 2956.9 |
| 2.5°  | 2927.5 | 2910.1 | 2867.4 | 2813.3 | 2765.2 | 2730.5 | 2678.4 | 2644.4 | 2621.7 | 2621.0 | 2612.3 |
| 5°    | 2853.4 | 2818.0 | 2725.8 | 2616.3 | 2516.8 | 2427.3 | 2321.8 | 2238.4 | 2176.3 | 2166.2 | 2144.9 |
| 7.5°  | 2773.9 | 2715.8 | 2574.2 | 2403.3 | 2236.4 | 2066.7 | 1869.7 | 1747.5 | 1642.7 | 1592.6 | 1587.3 |
| 10°   | 2725.2 | 2643.7 | 2442.7 | 2195.6 | 1933.9 | 1658.1 | 1400.3 | 1222.0 | 1093.1 | 1056.4 | 1029.0 |
| 12.5° | 2715.1 | 2607.6 | 2341.2 | 2000.6 | 1626.7 | 1262.1 | 976.9  | 787.3  | 684.5  | 651.7  | 643.1  |
| 15°   | 2725.2 | 2590.9 | 2255.7 | 1807.6 | 1315.5 | 895.5  | 655.7  | 545.6  | 506.8  | 497.5  | 496.8  |
| 17.5° | 2731.2 | 2570.9 | 2158.9 | 1593.3 | 1013.7 | 639.7  | 502.2  | 470.1  | 464.1  | 463.4  | 464.8  |
| 20°   | 2730.5 | 2540.2 | 2043.4 | 1354.2 | 753.9  | 502.8  | 454.1  | 447.4  | 446.1  | 446.7  | 446.1  |
| 22.5° | 2725.8 | 2504.1 | 1916.5 | 1107.8 | 569.6  | 449.4  | 433.4  | 429.4  | 428.7  | 428.7  | 428.7  |
| 25°   | 2734.5 | 2475.4 | 1776.9 | 872.1  | 469.4  | 424.7  | 414.7  | 411.3  | 410.7  | 410.7  | 409.3  |
| 27.5° | 2765.9 | 2459.4 | 1624.0 | 671.1  | 424.0  | 402.7  | 394.7  | 394.0  | 392.0  | 391.3  | 392.6  |
| 30°   | 2816.6 | 2459.4 | 1456.4 | 522.2  | 396.7  | 380.0  | 373.9  | 372.6  | 371.9  | 371.3  | 371.9  |
| 32.5° | 2906.1 | 2478.1 | 1273.4 | 434.0  | 370.6  | 354.6  | 350.6  | 352.6  | 350.6  | 350.6  | 350.6  |
| 35°   | 3067.7 | 2534.2 | 1081.8 | 378.6  | 343.2  | 329.9  | 325.9  | 328.5  | 327.2  | 327.2  | 326.5  |
| 37.5° | 3303.4 | 2638.3 | 888.8  | 345.2  | 319.2  | 305.2  | 299.8  | 303.8  | 302.5  | 302.5  | 301.8  |
| 40°   | 3590.6 | 2789.9 | 705.2  | 319.9  | 295.8  | 281.1  | 276.5  | 278.5  | 275.1  | 275.1  | 276.5  |
| 42.5° | 3945.2 | 2982.3 | 544.9  | 295.2  | 272.4  | 258.4  | 255.8  | 253.8  | 247.7  | 244.4  | 245.1  |
| 45°   | 4339.2 | 3182.6 | 424.7  | 271.1  | 250.4  | 239.1  | 235.1  | 229.7  | 219.7  | 213.0  | 213.7  |
| 47.5° | 4691.1 | 3336.8 | 345.2  | 247.7  | 230.4  | 221.7  | 215.7  | 205.7  | 191.0  | 183.0  | 183.6  |
| 50°   | 4876.0 | 3360.2 | 293.8  | 224.4  | 211.7  | 203.0  | 194.3  | 179.0  | 161.6  | 152.9  | 152.3  |
| 52.5° | 4923.5 | 3250.7 | 255.8  | 203.0  | 193.0  | 183.0  | 171.6  | 150.9  | 131.6  | 122.2  | 120.9  |
| 55°   | 4940.8 | 3083.8 | 221.7  | 183.0  | 173.0  | 161.6  | 146.9  | 123.5  | 105.5  | 96.2   | 95.5   |
| 57.5° | 4883.4 | 2834.7 | 195.0  | 164.9  | 152.9  | 138.9  | 120.9  | 98.8   | 81.5   | 74.1   | 74.1   |
| 60°   | 4755.8 | 2497.5 | 174.3  | 145.6  | 132.2  | 116.2  | 97.5   | 76.8   | 60.8   | 54.8   | 54.8   |
| 62.5° | 4501.4 | 2060.7 | 154.9  | 125.5  | 112.9  | 96.2   | 78.8   | 58.1   | 42.7   | 39.4   | 40.1   |
| 65°   | 4021.3 | 1563.2 | 135.6  | 107.5  | 96.2   | 79.5   | 61.4   | 41.4   | 28.7   | 28.7   | 30.0   |
| 67.5° | 3279.4 | 1085.8 | 115.5  | 91.5   | 82.8   | 64.8   | 46.7   | 28.7   | 20.0   | 22.7   | 25.4   |
| 70°   | 2170.9 | 609.0  | 98.8   | 75.5   | 70.8   | 51.4   | 34.7   | 19.4   | 16.0   | 21.4   | 26.0   |
| 72.5° | 819.4  | 237.1  | 82.8   | 60.8   | 61.4   | 39.4   | 24.7   | 14.7   | 14.7   | 23.4   | 30.7   |
| 75°   | 228.4  | 116.2  | 59.4   | 44.7   | 48.1   | 28.7   | 18.0   | 12.7   | 14.0   | 26.7   | 36.1   |
| 77.5° | 134.2  | 85.5   | 38.7   | 26.0   | 32.7   | 20.0   | 12.0   | 10.0   | 12.0   | 22.7   | 34.7   |
| 80°   | 108.2  | 45.4   | 22.7   | 13.4   | 18.0   | 11.4   | 8.0    | 6.0    | 3.3    | 8.7    | 18.0   |
| 82.5° | 108.2  | 27.4   | 10.7   | 9.3    | 9.3    | 6.0    | 4.0    | 2.7    | 0.7    | 0.0    | 4.7    |
| 85°   | 72.8   | 11.4   | 6.7    | 6.0    | 4.7    | 2.0    | 1.3    | 0.7    | 0.0    | 0.0    | 0.0    |
| 87.5° | 12.0   | 4.7    | 2.7    | 1.3    | 0.7    | 0.0    | 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)