

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: P533609

Luminaire Tested: **GLAN-SA9A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30927 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 274  
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

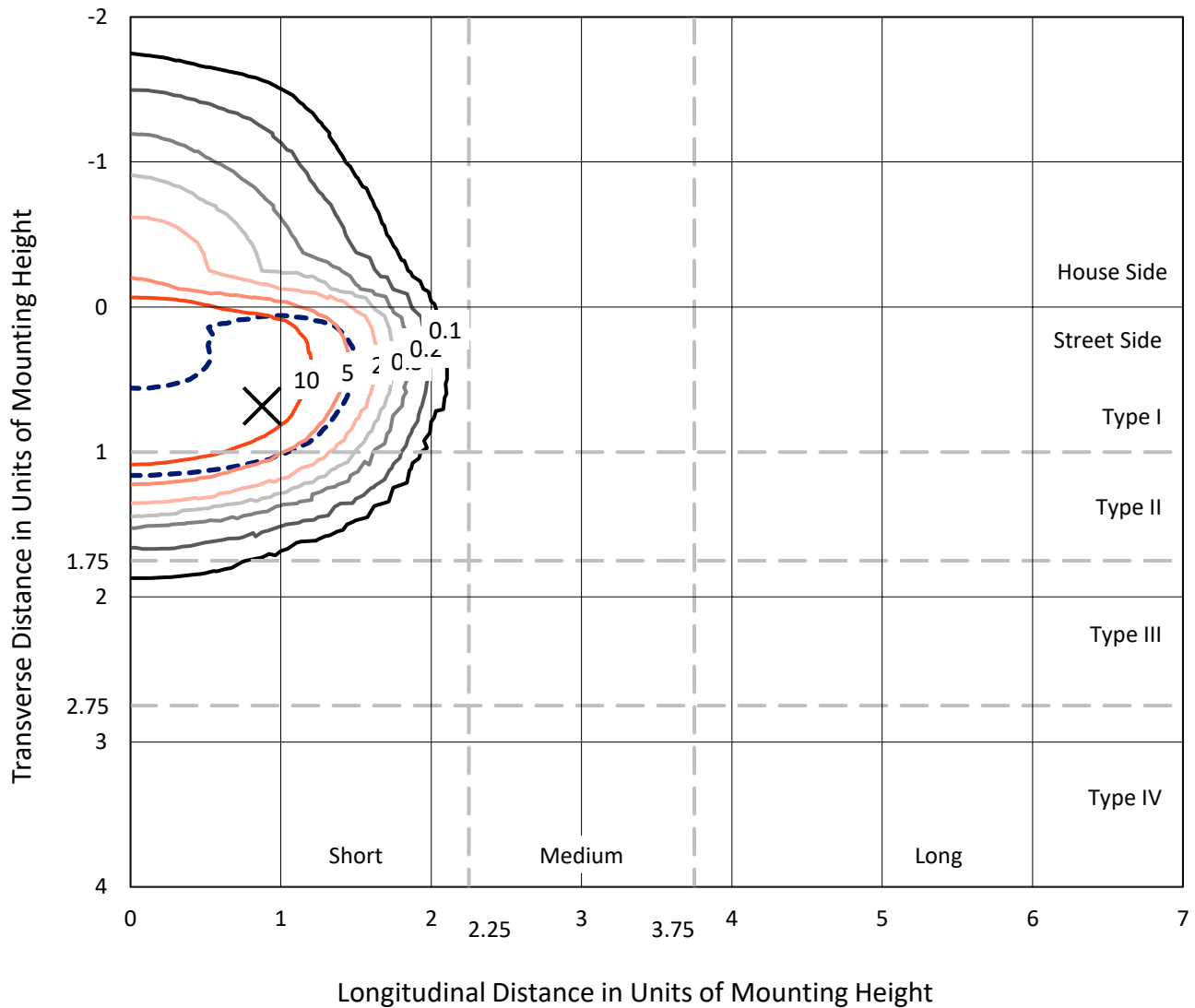


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

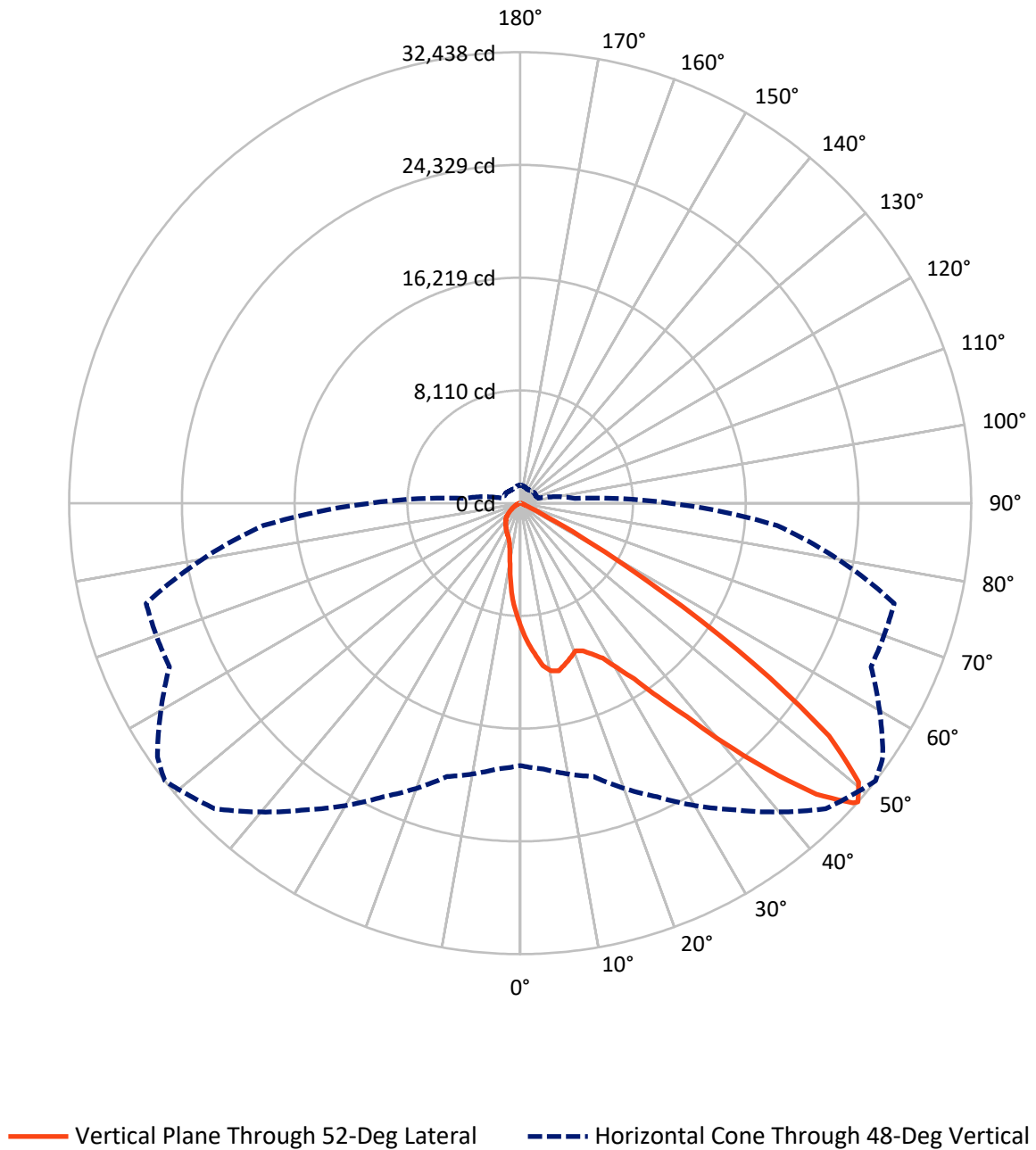


Based on 25 foot mounting height. Maximum calculated value = 20 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3765.6   | 0.0    | 3765.6  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 27161.4  | 0.0    | 27161.4 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 30927.0  | 0.0    | 30927.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 817.5   | 2.6       |
| 10°-20°   | 2136.3  | 6.9       |
| 20°-30°   | 3647.6  | 11.8      |
| 30°-40°   | 6717.0  | 21.7      |
| 40°-50°   | 10431.5 | 33.7      |
| 50°-60°   | 6278.0  | 20.3      |
| 60°-70°   | 726.1   | 2.3       |
| 70°-80°   | 140.5   | 0.5       |
| 80°-90°   | 32.5    | 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°    | 30927.0 | 100.0     |
| 0°-180°   | 30927.0 | 100.0     |

**Coefficient of Utilization**



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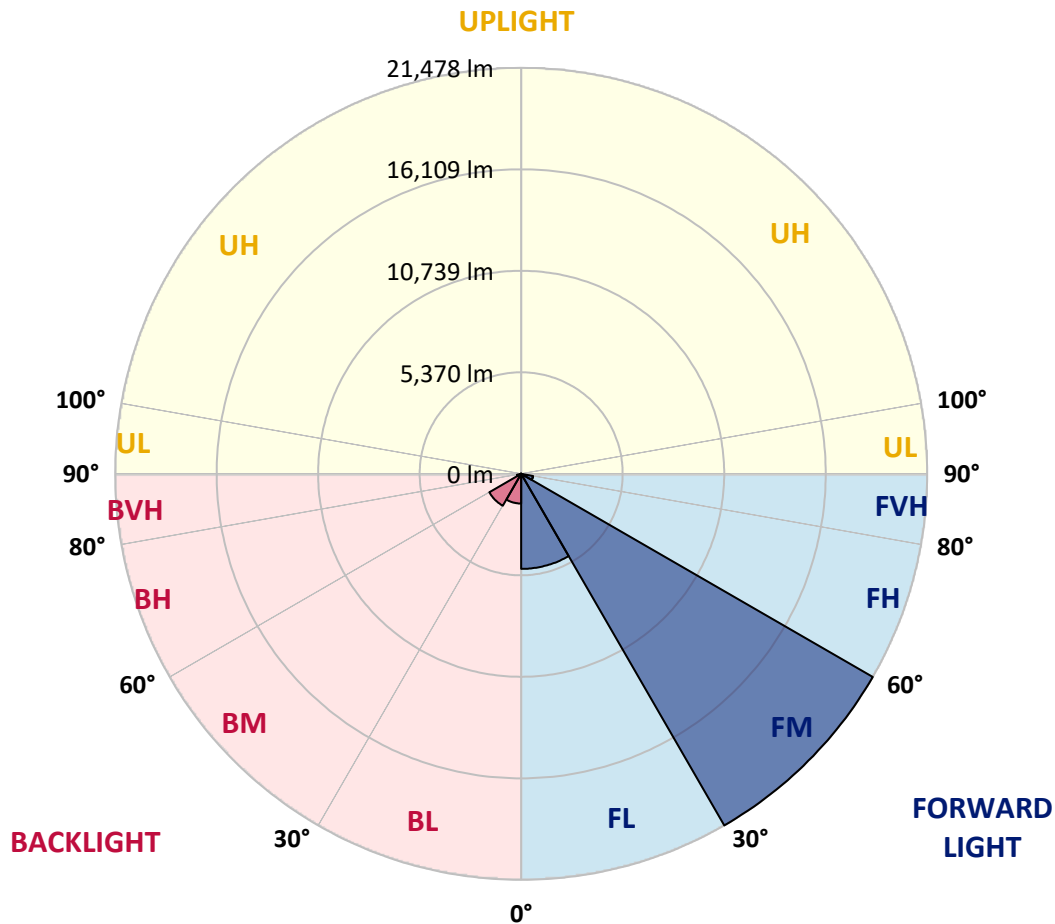
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 5028.3  | 16.3      |                         |      |        |
| FM   | (30°-60°)   | 21478.2 | 69.4      |                         |      |        |
| FH   | (60°-80°)   | 639.4   | 2.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 15.5    | 0.1       |                         |      | G1/100 |
| BL   | (0°-30°)    | 1573.0  | 5.1       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 1948.3  | 6.3       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 227.3   | 0.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 17.0    | 0.1       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8931.2  | 8931.2  | 8931.2  | 8931.2  | 8931.2  | 8931.2  | 8931.2  | 8931.2  | 8931.2  | 8931.2  | 8931.2  |
| 2.5°  | 10824.7 | 10576.8 | 10599.3 | 10437.0 | 10342.3 | 10189.1 | 9981.7  | 9941.1  | 9715.7  | 9409.1  | 9098.0  |
| 5°    | 11798.6 | 11740.0 | 11816.6 | 11582.2 | 11591.2 | 11338.7 | 10851.8 | 10860.8 | 10342.3 | 9841.9  | 9359.5  |
| 7.5°  | 11861.7 | 11726.4 | 11803.1 | 12010.5 | 12132.2 | 12087.1 | 11812.1 | 11573.1 | 11081.7 | 10346.9 | 9643.5  |
| 10°   | 10621.9 | 10878.8 | 10960.0 | 11302.6 | 11789.5 | 12303.5 | 12272.0 | 12285.5 | 11875.2 | 10914.9 | 9887.0  |
| 12.5° | 9878.0  | 9706.7  | 9981.7  | 10189.1 | 10923.9 | 11920.3 | 12375.6 | 12474.8 | 12506.4 | 11464.9 | 10130.4 |
| 15°   | 9539.8  | 9539.8  | 9584.9  | 9643.5  | 10175.5 | 11095.3 | 12024.0 | 12312.5 | 12993.3 | 12186.3 | 10513.7 |
| 17.5° | 9751.7  | 9742.7  | 9805.8  | 9684.1  | 9882.5  | 10590.3 | 11699.4 | 12028.5 | 13538.8 | 12894.1 | 10815.7 |
| 20°   | 10396.4 | 10428.0 | 10387.4 | 10035.8 | 10049.3 | 10581.3 | 11338.7 | 11857.2 | 13908.5 | 13507.3 | 11217.0 |
| 22.5° | 11293.6 | 11311.7 | 11081.7 | 10698.5 | 10585.8 | 10847.3 | 11546.1 | 11942.8 | 14206.1 | 14242.1 | 11338.7 |
| 25°   | 12330.6 | 12258.4 | 12213.3 | 11672.3 | 11329.7 | 11555.1 | 12015.0 | 12244.9 | 14390.9 | 14873.3 | 11685.9 |
| 27.5° | 13768.8 | 13624.5 | 13349.5 | 12867.1 | 12614.6 | 12294.5 | 12623.6 | 13002.3 | 14918.4 | 15757.0 | 12064.6 |
| 30°   | 15892.2 | 15766.0 | 15229.5 | 14607.3 | 13944.6 | 13629.0 | 13732.7 | 13940.1 | 15869.7 | 16780.4 | 12565.0 |
| 32.5° | 19088.7 | 18822.7 | 18047.3 | 16861.5 | 15959.8 | 15089.7 | 15062.7 | 15283.6 | 16721.8 | 18196.0 | 13160.1 |
| 35°   | 22609.8 | 22528.6 | 21388.0 | 20166.2 | 18421.5 | 17077.9 | 17100.5 | 17217.7 | 18353.8 | 20053.5 | 13940.1 |
| 37.5° | 24949.7 | 25396.0 | 24670.1 | 23358.2 | 21892.9 | 19972.4 | 19485.4 | 19526.0 | 20594.5 | 22253.6 | 15346.7 |
| 40°   | 26757.5 | 26378.8 | 26464.5 | 26157.9 | 25157.1 | 23849.6 | 22772.1 | 22560.2 | 23186.9 | 24688.2 | 16744.3 |
| 42.5° | 25968.6 | 25986.6 | 26514.1 | 27239.9 | 27487.9 | 27393.2 | 26293.2 | 25891.9 | 25405.0 | 26680.9 | 18074.3 |
| 45°   | 23741.4 | 24205.8 | 24891.1 | 26811.6 | 28497.8 | 30080.3 | 29863.9 | 29196.6 | 26937.9 | 28258.9 | 18840.7 |
| 47.5° | 20188.8 | 20170.7 | 21293.3 | 23791.0 | 27537.5 | 31243.4 | 32226.3 | 31757.4 | 28024.4 | 28083.0 | 18682.9 |
| 48°   | 18876.8 | 19201.4 | 20360.1 | 23299.6 | 26928.9 | 31072.1 | 32438.2 | 31847.6 | 27839.6 | 27848.6 | 18547.7 |
| 50°   | 13953.6 | 13895.0 | 15337.7 | 18944.4 | 24052.5 | 29196.6 | 31545.5 | 32005.4 | 27835.1 | 26662.9 | 17600.9 |
| 52.5° | 7371.3  | 7623.8  | 8674.2  | 11911.3 | 17005.8 | 23894.7 | 27826.0 | 28542.9 | 26852.2 | 24724.2 | 16239.4 |
| 55°   | 3133.4  | 2831.3  | 3638.3  | 5378.6  | 9566.9  | 15964.4 | 20414.2 | 22010.2 | 22704.5 | 21879.4 | 14206.1 |
| 57.5° | 1118.1  | 1221.8  | 1406.6  | 2024.3  | 4021.5  | 8737.3  | 12172.8 | 13412.6 | 15729.9 | 16054.5 | 9679.6  |
| 60°   | 716.8   | 730.4   | 789.0   | 928.7   | 1510.3  | 3367.8  | 5775.3  | 6762.6  | 7813.1  | 8065.6  | 4517.4  |
| 62.5° | 554.5   | 559.0   | 586.1   | 608.6   | 716.8   | 1307.4  | 2168.6  | 2569.8  | 2669.0  | 2294.8  | 1185.7  |
| 65°   | 464.4   | 468.9   | 477.9   | 477.9   | 509.5   | 613.1   | 757.4   | 834.1   | 811.5   | 802.5   | 671.8   |
| 67.5° | 356.2   | 365.2   | 383.2   | 383.2   | 401.3   | 374.2   | 419.3   | 446.3   | 504.9   | 613.1   | 572.6   |
| 70°   | 279.5   | 284.0   | 297.6   | 306.6   | 306.6   | 270.5   | 302.1   | 329.1   | 369.7   | 455.4   | 450.8   |
| 72.5° | 216.4   | 225.4   | 234.4   | 234.4   | 220.9   | 184.8   | 216.4   | 238.9   | 266.0   | 315.6   | 306.6   |
| 75°   | 166.8   | 166.8   | 171.3   | 139.8   | 108.2   | 94.7    | 130.7   | 157.8   | 198.4   | 207.4   | 171.3   |
| 77.5° | 45.1    | 49.6    | 45.1    | 40.6    | 45.1    | 67.6    | 85.7    | 99.2    | 126.2   | 126.2   | 112.7   |
| 80°   | 0.0     | 4.5     | 13.5    | 27.1    | 45.1    | 63.1    | 76.6    | 85.7    | 99.2    | 108.2   | 103.7   |
| 82.5° | 0.0     | 4.5     | 13.5    | 27.1    | 40.6    | 49.6    | 67.6    | 72.1    | 81.2    | 94.7    | 94.7    |
| 85°   | 0.0     | 4.5     | 9.0     | 18.0    | 27.1    | 31.6    | 31.6    | 27.1    | 27.1    | 22.5    | 18.0    |
| 87.5° | 0.0     | 0.0     | 4.5     | 9.0     | 9.0     | 13.5    | 13.5    | 13.5    | 13.5    | 13.5    | 13.5    |
| 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°    | 8931.2  | 8931.2 | 8931.2 | 8931.2 | 8931.2 | 8931.2 | 8931.2 | 8931.2 | 8931.2 | 8931.2 | 8931.2 |
| 2.5°  | 8976.3  | 8836.5 | 8624.6 | 8291.0 | 7970.9 | 7763.5 | 7565.1 | 7344.2 | 7222.5 | 7213.5 | 7145.9 |
| 5°    | 9084.5  | 8768.9 | 8264.0 | 7691.4 | 7078.2 | 6550.8 | 6018.8 | 5671.6 | 5360.5 | 5189.2 | 5157.6 |
| 7.5°  | 9143.1  | 8732.8 | 7916.8 | 6956.5 | 5910.6 | 5049.4 | 4454.3 | 4017.0 | 3845.7 | 3719.5 | 3714.9 |
| 10°   | 9264.8  | 8669.7 | 7398.3 | 5982.7 | 4688.8 | 3818.6 | 3408.4 | 3210.0 | 3115.3 | 3079.3 | 3025.2 |
| 12.5° | 9355.0  | 8552.5 | 6866.3 | 4981.8 | 3705.9 | 3164.9 | 2984.6 | 2939.5 | 2944.0 | 2962.0 | 2939.5 |
| 15°   | 9481.2  | 8448.8 | 6149.5 | 4089.1 | 3110.8 | 2849.3 | 2849.3 | 2858.3 | 2921.5 | 2930.5 | 2926.0 |
| 17.5° | 9472.2  | 8245.9 | 5410.1 | 3367.8 | 2750.1 | 2714.1 | 2727.6 | 2813.3 | 2853.8 | 2867.4 | 2835.8 |
| 20°   | 9580.4  | 8056.6 | 4648.2 | 2876.4 | 2547.3 | 2601.4 | 2691.5 | 2714.1 | 2763.7 | 2772.7 | 2736.6 |
| 22.5° | 9548.9  | 7583.2 | 3940.4 | 2488.7 | 2394.0 | 2497.7 | 2587.8 | 2614.9 | 2601.4 | 2574.3 | 2569.8 |
| 25°   | 9490.2  | 7177.4 | 3291.2 | 2231.7 | 2281.3 | 2394.0 | 2479.6 | 2430.0 | 2403.0 | 2407.5 | 2412.0 |
| 27.5° | 9386.6  | 6663.5 | 2754.7 | 2051.3 | 2128.0 | 2294.8 | 2290.3 | 2272.2 | 2299.3 | 2276.8 | 2299.3 |
| 30°   | 9368.5  | 6149.5 | 2312.8 | 1889.0 | 2015.3 | 2137.0 | 2146.0 | 2177.6 | 2209.1 | 2168.6 | 2209.1 |
| 32.5° | 9395.6  | 5585.9 | 1997.2 | 1789.8 | 1947.6 | 1952.2 | 2051.3 | 2082.9 | 2060.4 | 1970.2 | 1979.2 |
| 35°   | 9603.0  | 5153.1 | 1767.3 | 1735.7 | 1839.4 | 1843.9 | 1938.6 | 1898.0 | 1798.9 | 1744.8 | 1776.3 |
| 37.5° | 10040.3 | 4792.5 | 1659.1 | 1686.2 | 1695.2 | 1753.8 | 1758.3 | 1677.1 | 1686.2 | 1681.6 | 1699.7 |
| 40°   | 10599.3 | 4517.4 | 1582.5 | 1641.1 | 1632.1 | 1672.6 | 1510.3 | 1555.4 | 1596.0 | 1609.5 | 1618.5 |
| 42.5° | 10982.5 | 4319.1 | 1532.9 | 1568.9 | 1550.9 | 1478.8 | 1388.6 | 1433.7 | 1465.2 | 1514.8 | 1523.9 |
| 45°   | 11153.9 | 4161.3 | 1474.3 | 1442.7 | 1442.7 | 1312.0 | 1275.9 | 1284.9 | 1357.0 | 1411.1 | 1402.1 |
| 47.5° | 10874.3 | 4008.0 | 1370.6 | 1275.9 | 1307.4 | 1199.2 | 1158.7 | 1158.7 | 1235.3 | 1302.9 | 1289.4 |
| 48°   | 10766.1 | 3944.9 | 1375.1 | 1239.8 | 1262.4 | 1181.2 | 1140.6 | 1131.6 | 1217.3 | 1280.4 | 1280.4 |
| 50°   | 10229.6 | 3710.4 | 1257.9 | 1140.6 | 1095.5 | 1086.5 | 1059.5 | 1068.5 | 1122.6 | 1181.2 | 1181.2 |
| 52.5° | 9183.7  | 3205.5 | 1064.0 | 978.3  | 897.2  | 951.3  | 964.8  | 946.8  | 973.8  | 1027.9 | 1023.4 |
| 55°   | 7664.3  | 2461.6 | 852.1  | 811.5  | 748.4  | 807.0  | 834.1  | 811.5  | 784.5  | 825.0  | 825.0  |
| 57.5° | 4909.7  | 1325.5 | 680.8  | 689.8  | 626.7  | 685.3  | 707.8  | 653.7  | 604.1  | 635.7  | 631.2  |
| 60°   | 2213.6  | 793.5  | 559.0  | 545.5  | 504.9  | 572.6  | 608.6  | 545.5  | 477.9  | 500.4  | 523.0  |
| 62.5° | 829.6   | 563.6  | 423.8  | 414.8  | 405.8  | 468.9  | 486.9  | 437.3  | 369.7  | 383.2  | 387.7  |
| 65°   | 608.6   | 495.9  | 338.1  | 306.6  | 324.6  | 369.7  | 360.7  | 311.1  | 266.0  | 266.0  | 275.0  |
| 67.5° | 518.5   | 432.8  | 275.0  | 238.9  | 238.9  | 243.5  | 225.4  | 198.4  | 184.8  | 193.9  | 202.9  |
| 70°   | 405.8   | 342.6  | 216.4  | 184.8  | 166.8  | 148.8  | 130.7  | 126.2  | 112.7  | 126.2  | 121.7  |
| 72.5° | 261.5   | 229.9  | 166.8  | 139.8  | 126.2  | 103.7  | 85.7   | 81.2   | 67.6   | 63.1   | 63.1   |
| 75°   | 139.8   | 139.8  | 130.7  | 112.7  | 99.2   | 81.2   | 67.6   | 54.1   | 36.1   | 27.1   | 27.1   |
| 77.5° | 99.2    | 108.2  | 117.2  | 108.2  | 90.2   | 67.6   | 54.1   | 36.1   | 18.0   | 9.0    | 9.0    |
| 80°   | 94.7    | 108.2  | 117.2  | 103.7  | 90.2   | 67.6   | 49.6   | 27.1   | 13.5   | 4.5    | 4.5    |
| 82.5° | 85.7    | 99.2   | 108.2  | 94.7   | 81.2   | 58.6   | 45.1   | 27.1   | 13.5   | 4.5    | 4.5    |
| 85°   | 18.0    | 22.5   | 27.1   | 27.1   | 31.6   | 40.6   | 31.6   | 22.5   | 9.0    | 4.5    | 4.5    |
| 87.5° | 13.5    | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 9.0    | 9.0    | 4.5    | 4.5    | 4.5    |
| 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)