

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: P529123

Luminaire Tested: **GLAN-SA4B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12093 lumens  
Efficiency: N/A  
Efficacy: 73.7 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): 164  
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



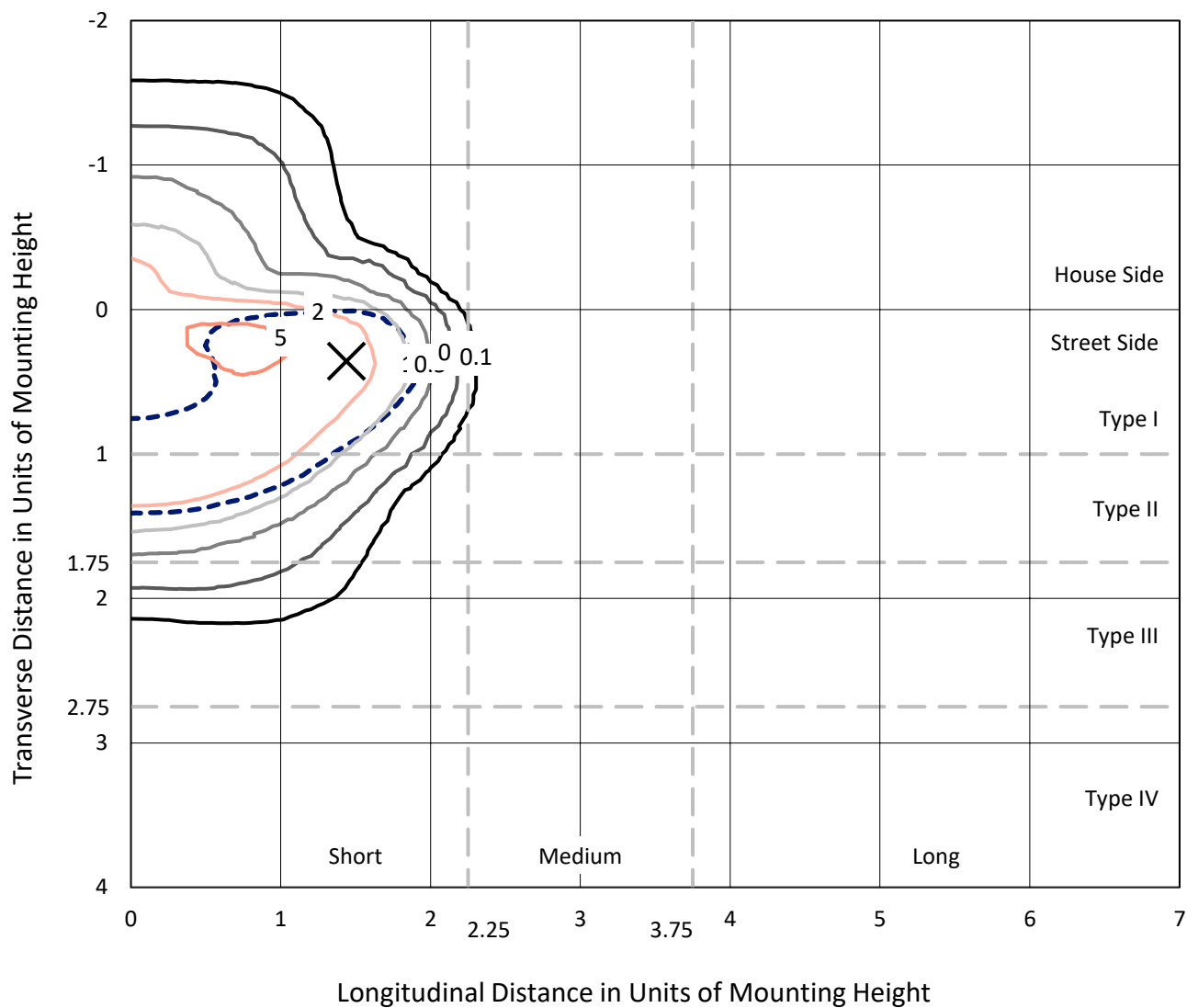
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

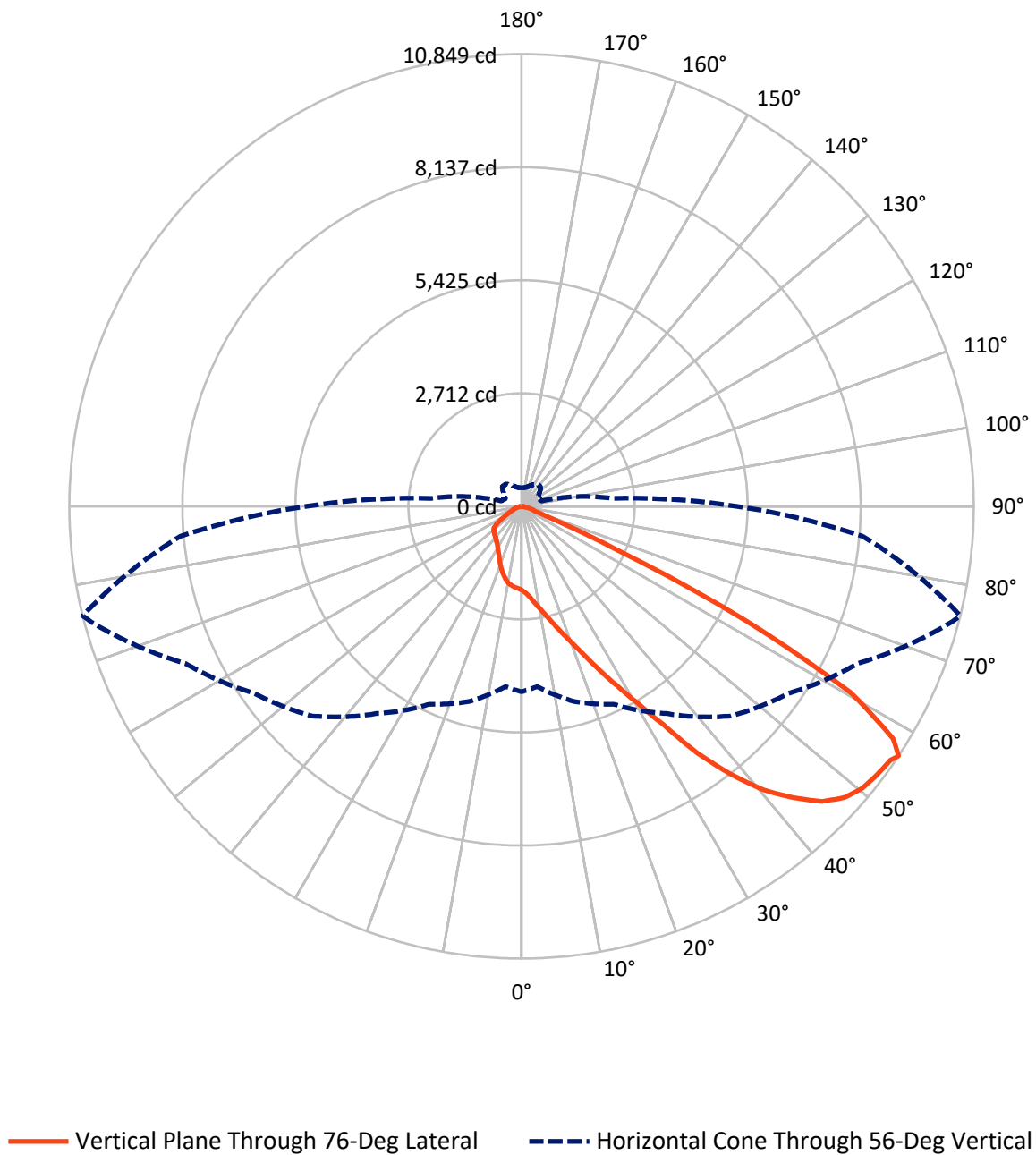
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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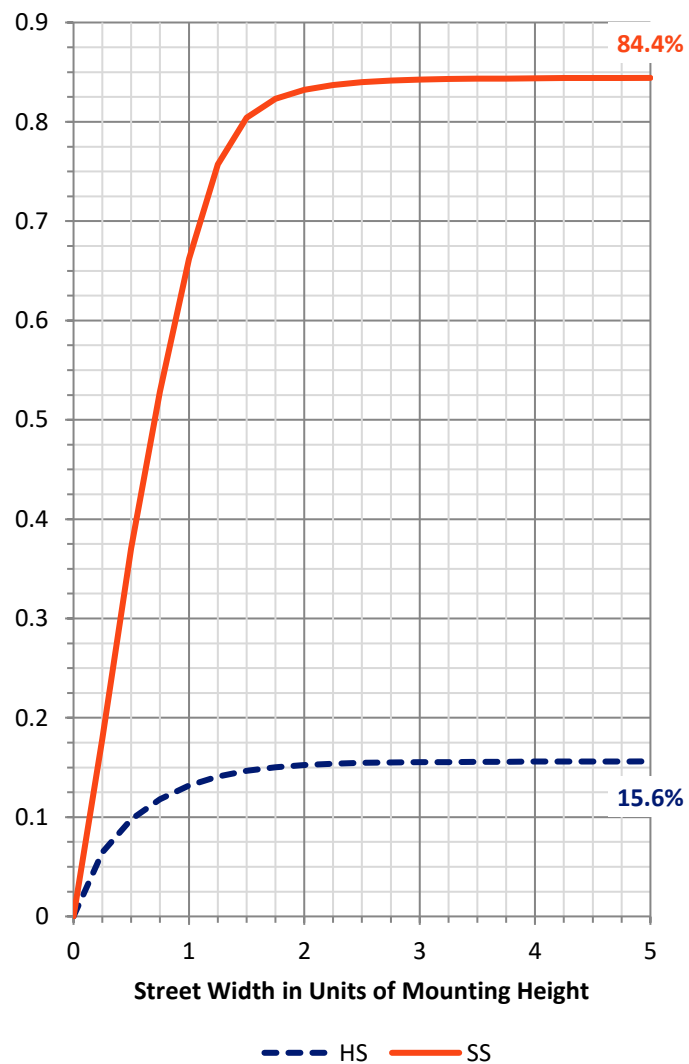
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1899.7   | 0.0    | 1899.7  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 10193.2  | 0.0    | 10193.2 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 12093.0  | 0.0    | 12093.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 202.8   | 1.7       |
| 10°-20°   | 651.4   | 5.4       |
| 20°-30°   | 1181.2  | 9.8       |
| 30°-40°   | 2037.1  | 16.8      |
| 40°-50°   | 3309.3  | 27.4      |
| 50°-60°   | 3488.1  | 28.8      |
| 60°-70°   | 1065.8  | 8.8       |
| 70°-80°   | 136.6   | 1.1       |
| 80°-90°   | 20.8    | 0.2       |
| 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°    | 12093.0 | 100.0     |
| 0°-180°   | 12093.0 | 100.0     |

**Coefficient of Utilization**



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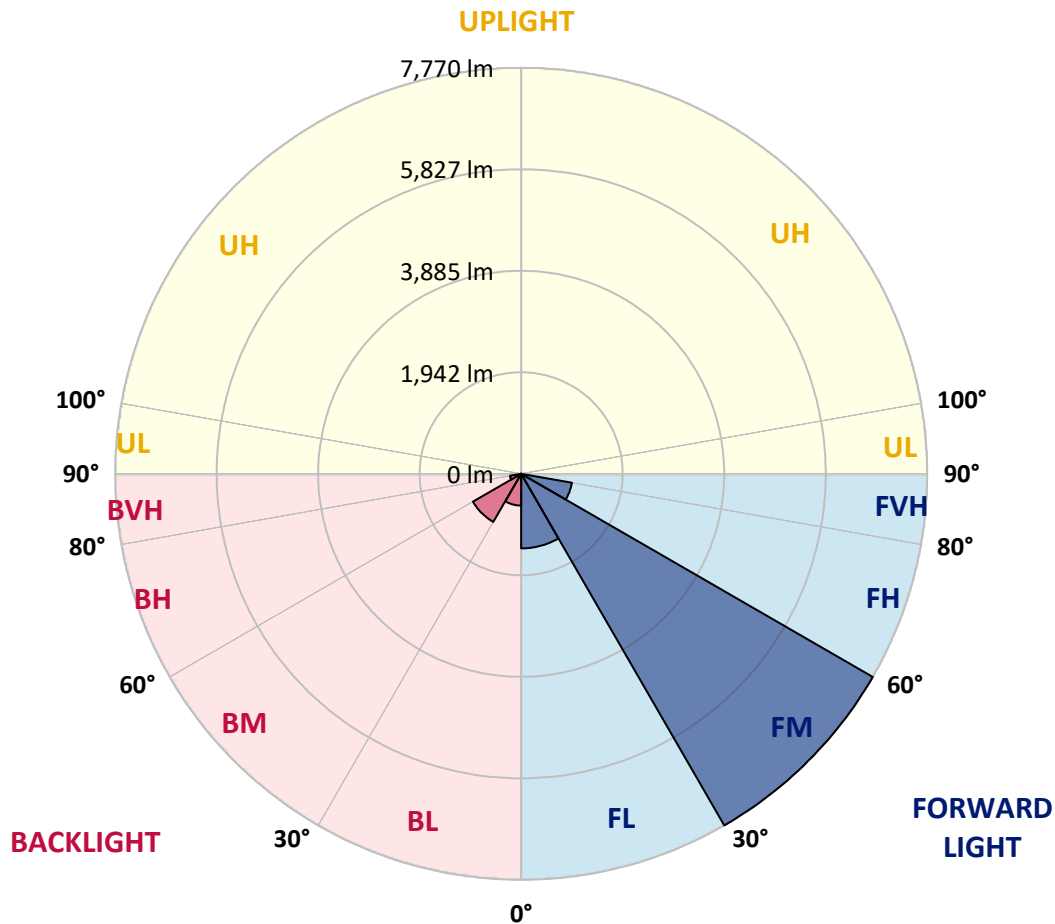
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1427.7 | 11.8      |                         |      |         |
| FM   | (30°-60°)   | 7769.7 | 64.2      |                         |      |         |
| FH   | (60°-80°)   | 985.7  | 8.2       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 10.2   | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 607.7  | 5.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1064.7 | 8.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 216.7  | 1.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.6   | 0.1       |                         |      | G1/100  |
| 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°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9  | 2012.9  | 2012.9 |
| 2.5°  | 2318.3 | 2264.8 | 2267.0 | 2262.6 | 2255.9 | 2231.4 | 2157.8 | 2146.6 | 2097.6  | 2084.2  | 2039.6 |
| 5°    | 2596.9 | 2550.1 | 2576.9 | 2536.7 | 2498.8 | 2476.6 | 2356.2 | 2300.5 | 2222.4  | 2193.5  | 2131.0 |
| 7.5°  | 2770.8 | 2748.5 | 2739.6 | 2741.8 | 2706.2 | 2650.4 | 2596.9 | 2474.3 | 2369.6  | 2347.3  | 2215.7 |
| 10°   | 2855.5 | 2842.1 | 2855.5 | 2848.8 | 2864.4 | 2871.1 | 2777.5 | 2703.9 | 2550.1  | 2512.2  | 2307.1 |
| 12.5° | 2875.6 | 2902.3 | 2913.5 | 2942.4 | 2980.3 | 3045.0 | 3038.3 | 2938.0 | 2732.9  | 2708.4  | 2447.6 |
| 15°   | 2924.6 | 2946.9 | 2935.8 | 2982.6 | 3053.9 | 3163.1 | 3221.1 | 3205.5 | 2984.8  | 2940.2  | 2610.3 |
| 17.5° | 2969.2 | 2929.1 | 2967.0 | 3060.6 | 3131.9 | 3299.1 | 3439.5 | 3504.2 | 3259.0  | 3207.7  | 2759.7 |
| 20°   | 3029.4 | 3018.2 | 3011.5 | 3058.4 | 3185.4 | 3408.3 | 3687.0 | 3805.1 | 3566.6  | 3513.1  | 2973.7 |
| 22.5° | 3212.2 | 3214.4 | 3209.9 | 3140.8 | 3232.2 | 3484.1 | 3903.2 | 4195.2 | 3934.4  | 3889.8  | 3216.6 |
| 25°   | 3452.9 | 3423.9 | 3401.6 | 3345.9 | 3334.8 | 3553.2 | 4121.6 | 4672.2 | 4375.8  | 4344.6  | 3479.7 |
| 27.5° | 3707.0 | 3707.0 | 3640.2 | 3588.9 | 3517.6 | 3724.9 | 4322.3 | 5135.9 | 4908.5  | 4866.2  | 3709.3 |
| 30°   | 3983.4 | 3999.0 | 3990.1 | 3880.9 | 3836.3 | 3912.1 | 4527.3 | 5728.8 | 5519.3  | 5465.8  | 4088.2 |
| 32.5° | 4391.4 | 4357.9 | 4395.8 | 4304.4 | 4172.9 | 4239.8 | 4850.6 | 6259.4 | 6312.9  | 6237.1  | 4585.3 |
| 35°   | 4930.8 | 4910.8 | 4886.2 | 4736.9 | 4580.8 | 4634.3 | 5307.5 | 6912.5 | 7309.3  | 7271.4  | 5086.9 |
| 37.5° | 5414.5 | 5403.4 | 5383.3 | 5280.8 | 5100.2 | 5164.9 | 5826.9 | 7592.4 | 8281.2  | 8156.4  | 5795.7 |
| 40°   | 5922.8 | 5983.0 | 5918.3 | 5826.9 | 5662.0 | 5804.6 | 6437.7 | 7995.9 | 9099.3  | 8947.7  | 6337.4 |
| 42.5° | 6611.6 | 6564.8 | 6593.7 | 6426.6 | 6337.4 | 6493.4 | 7050.7 | 8399.3 | 9734.6  | 9554.0  | 6912.5 |
| 45°   | 7345.0 | 7347.2 | 7269.2 | 7215.7 | 6983.8 | 7153.3 | 7427.4 | 8622.2 | 10240.6 | 10100.2 | 7347.2 |
| 47.5° | 7815.3 | 7813.1 | 7897.8 | 7982.5 | 7744.0 | 7576.8 | 7683.8 | 8834.0 | 10501.4 | 10436.8 | 7505.5 |
| 50°   | 7741.7 | 7764.0 | 7873.3 | 8189.8 | 8314.6 | 8089.5 | 7924.5 | 8771.6 | 10619.5 | 10612.9 | 7641.4 |
| 52.5° | 6734.2 | 6807.7 | 6990.5 | 7447.5 | 8076.1 | 8354.8 | 8176.4 | 8887.5 | 10677.5 | 10688.6 | 7844.3 |
| 55°   | 5127.0 | 5167.1 | 5514.9 | 6069.9 | 6765.4 | 7719.5 | 8076.1 | 8978.9 | 10722.1 | 10742.1 | 8089.5 |
| 56°   | 4447.1 | 4340.1 | 4841.7 | 5236.2 | 6067.7 | 7110.9 | 7822.0 | 8907.6 | 10695.3 | 10849.1 | 8212.1 |
| 57.5° | 3357.1 | 3285.7 | 3691.4 | 4184.1 | 4984.3 | 6085.5 | 7032.9 | 8571.0 | 10514.8 | 10512.5 | 8036.0 |
| 60°   | 2041.9 | 1970.5 | 2282.6 | 2572.4 | 3020.5 | 3747.2 | 4752.5 | 6825.6 | 8889.7  | 9077.0  | 6506.8 |
| 62.5° | 1214.9 | 1259.5 | 1567.1 | 1743.2 | 1888.1 | 1963.9 | 2458.7 | 4057.0 | 5931.7  | 6065.4  | 4036.9 |
| 65°   | 809.2  | 824.8  | 1056.6 | 1346.4 | 1411.0 | 1123.5 | 1000.9 | 1642.9 | 2572.4  | 2489.9  | 1665.2 |
| 67.5° | 499.3  | 535.0  | 708.9  | 1012.0 | 1121.2 | 820.3  | 474.8  | 613.0  | 708.9   | 708.9   | 481.5  |
| 70°   | 303.2  | 321.0  | 472.6  | 688.8  | 769.0  | 528.3  | 345.5  | 345.5  | 341.1   | 334.4   | 287.6  |
| 72.5° | 144.9  | 156.0  | 240.7  | 354.4  | 361.1  | 278.6  | 267.5  | 292.0  | 285.3   | 283.1   | 238.5  |
| 75°   | 62.4   | 66.9   | 84.7   | 111.5  | 127.1  | 118.1  | 162.7  | 209.5  | 216.2   | 209.5   | 171.6  |
| 77.5° | 20.1   | 22.3   | 31.2   | 40.1   | 42.4   | 51.3   | 69.1   | 86.9   | 100.3   | 93.6    | 84.7   |
| 80°   | 2.2    | 4.5    | 8.9    | 20.1   | 31.2   | 40.1   | 51.3   | 58.0   | 64.6    | 64.6    | 60.2   |
| 82.5° | 2.2    | 2.2    | 8.9    | 17.8   | 29.0   | 37.9   | 49.0   | 55.7   | 64.6    | 66.9    | 62.4   |
| 85°   | 0.0    | 2.2    | 6.7    | 15.6   | 24.5   | 24.5   | 22.3   | 22.3   | 15.6    | 15.6    | 15.6   |
| 87.5° | 0.0    | 0.0    | 2.2    | 2.2    | 2.2    | 4.5    | 4.5    | 4.5    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 | 2012.9 |
| 2.5°  | 2030.7 | 2026.3 | 1966.1 | 1928.2 | 1908.1 | 1868.0 | 1843.5 | 1825.7 | 1812.3 | 1796.7 | 1798.9 |
| 5°    | 2057.5 | 2041.9 | 1941.6 | 1872.5 | 1790.0 | 1745.4 | 1707.5 | 1676.3 | 1656.2 | 1651.8 | 1642.9 |
| 7.5°  | 2133.3 | 2050.8 | 1899.2 | 1774.4 | 1669.6 | 1625.0 | 1591.6 | 1571.5 | 1580.4 | 1560.4 | 1576.0 |
| 10°   | 2191.2 | 2068.6 | 1847.9 | 1667.4 | 1562.6 | 1529.2 | 1511.3 | 1526.9 | 1549.2 | 1540.3 | 1529.2 |
| 12.5° | 2262.6 | 2086.5 | 1765.5 | 1564.8 | 1466.8 | 1442.2 | 1473.5 | 1502.4 | 1547.0 | 1564.8 | 1542.6 |
| 15°   | 2342.8 | 2106.5 | 1660.7 | 1446.7 | 1384.3 | 1404.3 | 1457.8 | 1509.1 | 1553.7 | 1576.0 | 1589.4 |
| 17.5° | 2440.9 | 2099.8 | 1558.2 | 1353.1 | 1306.3 | 1364.2 | 1428.9 | 1475.7 | 1542.6 | 1576.0 | 1567.1 |
| 20°   | 2532.3 | 2077.5 | 1444.5 | 1259.5 | 1261.7 | 1315.2 | 1368.7 | 1444.5 | 1480.1 | 1524.7 | 1509.1 |
| 22.5° | 2619.2 | 2037.4 | 1326.3 | 1194.8 | 1194.8 | 1277.3 | 1304.0 | 1353.1 | 1384.3 | 1406.6 | 1404.3 |
| 25°   | 2741.8 | 1961.6 | 1228.2 | 1132.4 | 1159.1 | 1212.6 | 1234.9 | 1250.5 | 1237.2 | 1255.0 | 1257.2 |
| 27.5° | 2828.8 | 1883.6 | 1148.0 | 1076.7 | 1125.7 | 1165.8 | 1159.1 | 1150.2 | 1119.0 | 1094.5 | 1110.1 |
| 30°   | 2922.4 | 1792.2 | 1078.9 | 1038.8 | 1065.5 | 1101.2 | 1074.4 | 1047.7 | 998.6  | 958.5  | 960.8  |
| 32.5° | 3056.1 | 1749.9 | 1018.7 | 994.2  | 1029.9 | 1034.3 | 1005.3 | 965.2  | 916.2  | 878.3  | 876.0  |
| 35°   | 3305.8 | 1723.1 | 967.4  | 965.2  | 971.9  | 974.1  | 945.1  | 896.1  | 876.0  | 844.8  | 856.0  |
| 37.5° | 3555.5 | 1709.7 | 931.8  | 922.9  | 920.6  | 922.9  | 889.4  | 842.6  | 880.5  | 878.3  | 882.7  |
| 40°   | 3874.2 | 1769.9 | 880.5  | 869.4  | 871.6  | 871.6  | 829.2  | 815.9  | 882.7  | 889.4  | 891.6  |
| 42.5° | 4197.4 | 1845.7 | 847.1  | 811.4  | 820.3  | 820.3  | 798.0  | 782.4  | 829.2  | 784.7  | 778.0  |
| 45°   | 4478.3 | 1957.2 | 811.4  | 753.4  | 775.7  | 786.9  | 780.2  | 753.4  | 724.5  | 648.7  | 648.7  |
| 47.5° | 4569.7 | 2055.3 | 769.0  | 697.7  | 715.5  | 764.6  | 744.5  | 688.8  | 637.5  | 575.1  | 570.7  |
| 50°   | 4730.2 | 2162.2 | 735.6  | 633.1  | 671.0  | 731.2  | 711.1  | 655.4  | 597.4  | 552.8  | 555.1  |
| 52.5° | 4895.2 | 2284.9 | 673.2  | 557.3  | 604.1  | 704.4  | 704.4  | 642.0  | 552.8  | 521.6  | 517.2  |
| 55°   | 5142.6 | 2280.4 | 561.7  | 457.0  | 539.4  | 664.3  | 675.4  | 575.1  | 494.9  | 470.3  | 470.3  |
| 56°   | 5178.3 | 2177.9 | 506.0  | 428.0  | 510.5  | 653.1  | 655.4  | 557.3  | 472.6  | 445.8  | 445.8  |
| 57.5° | 4910.8 | 1966.1 | 443.6  | 392.3  | 474.8  | 633.1  | 635.3  | 541.7  | 454.7  | 416.8  | 412.4  |
| 60°   | 3778.4 | 1330.8 | 370.0  | 350.0  | 430.2  | 570.7  | 581.8  | 492.6  | 399.0  | 370.0  | 367.8  |
| 62.5° | 2133.3 | 737.8  | 325.5  | 316.5  | 370.0  | 485.9  | 519.4  | 430.2  | 338.8  | 323.2  | 327.7  |
| 65°   | 974.1  | 405.7  | 274.2  | 256.3  | 298.7  | 374.5  | 419.1  | 354.4  | 278.6  | 260.8  | 260.8  |
| 67.5° | 356.7  | 276.4  | 234.1  | 202.9  | 209.5  | 243.0  | 272.0  | 229.6  | 185.0  | 158.3  | 165.0  |
| 70°   | 254.1  | 231.8  | 205.1  | 176.1  | 162.7  | 158.3  | 156.0  | 129.3  | 91.4   | 71.3   | 75.8   |
| 72.5° | 205.1  | 191.7  | 171.6  | 149.4  | 127.1  | 107.0  | 91.4   | 66.9   | 42.4   | 29.0   | 26.7   |
| 75°   | 147.1  | 140.4  | 124.8  | 107.0  | 89.2   | 75.8   | 62.4   | 42.4   | 22.3   | 11.1   | 11.1   |
| 77.5° | 75.8   | 75.8   | 73.6   | 66.9   | 55.7   | 44.6   | 35.7   | 24.5   | 13.4   | 4.5    | 4.5    |
| 80°   | 58.0   | 62.4   | 64.6   | 58.0   | 51.3   | 40.1   | 29.0   | 17.8   | 8.9    | 2.2    | 2.2    |
| 82.5° | 55.7   | 64.6   | 69.1   | 60.2   | 51.3   | 37.9   | 29.0   | 17.8   | 8.9    | 2.2    | 2.2    |
| 85°   | 13.4   | 13.4   | 20.1   | 22.3   | 29.0   | 31.2   | 24.5   | 15.6   | 6.7    | 2.2    | 2.2    |
| 87.5° | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 2.2    | 2.2    | 2.2    | 2.2    | 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)