

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: P531361

Luminaire Tested: **GLAN-SA6C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P531361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6C-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20269 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 321  
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

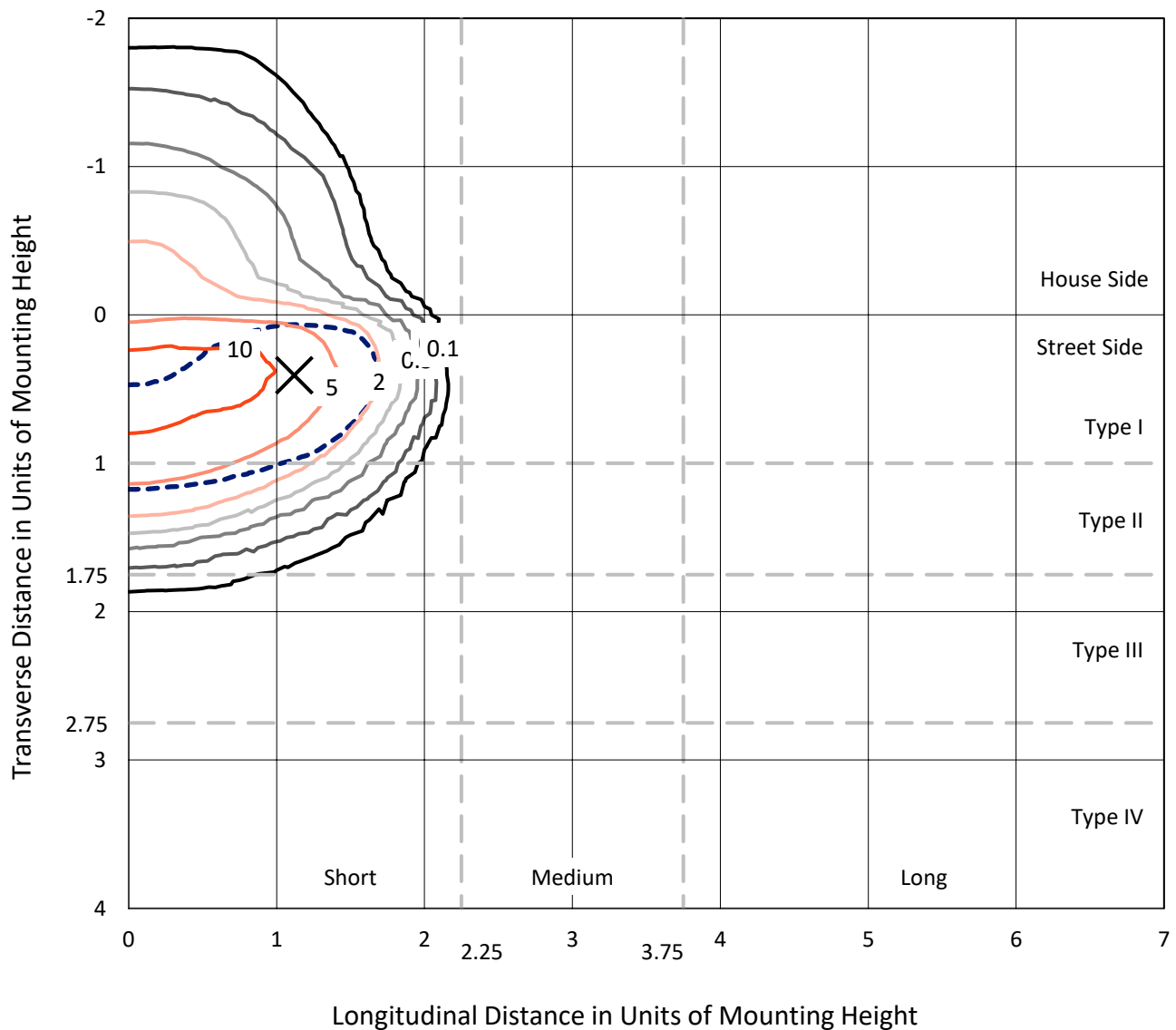


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

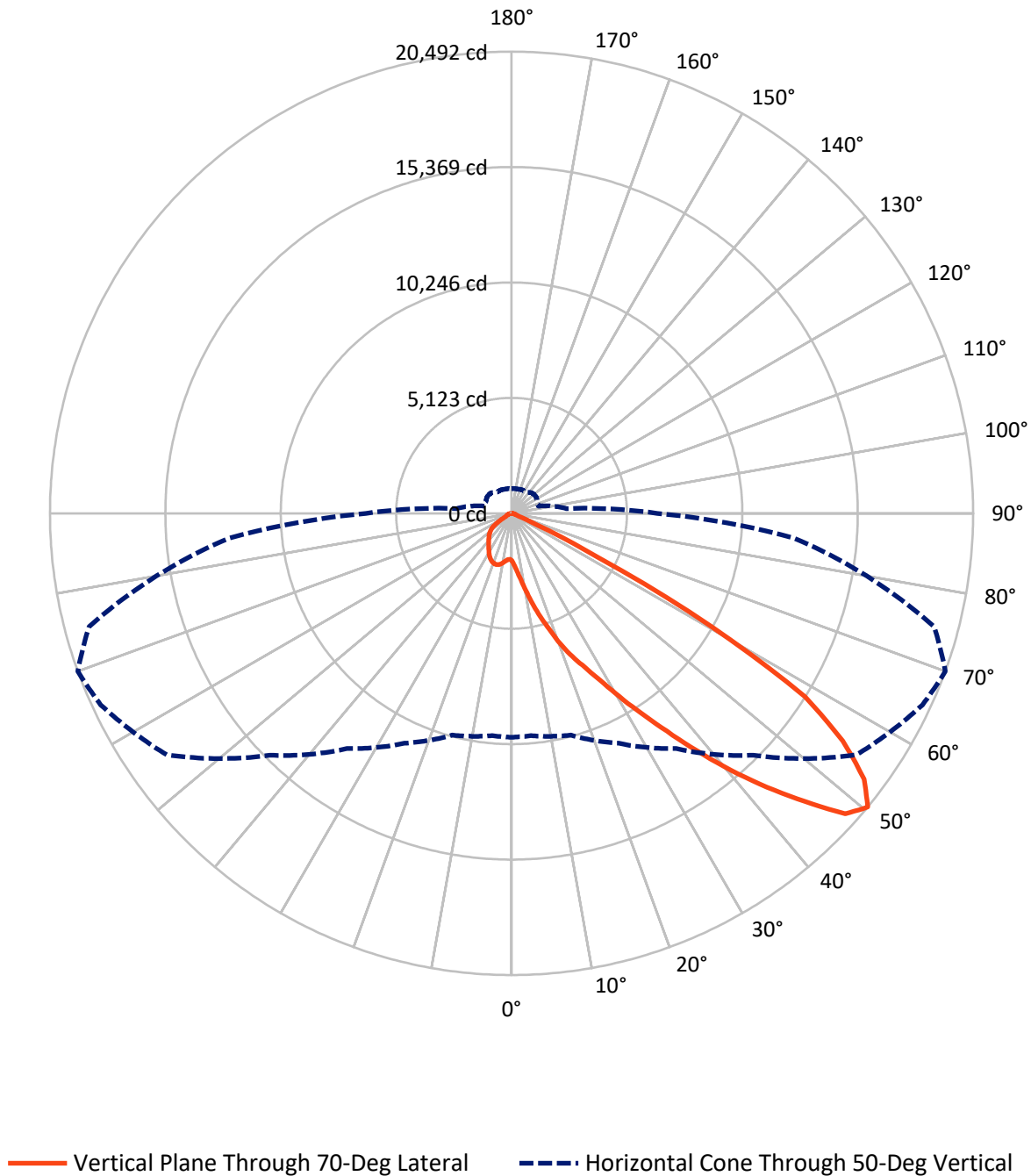


Based on 25 foot mounting height. Maximum calculated value = 12 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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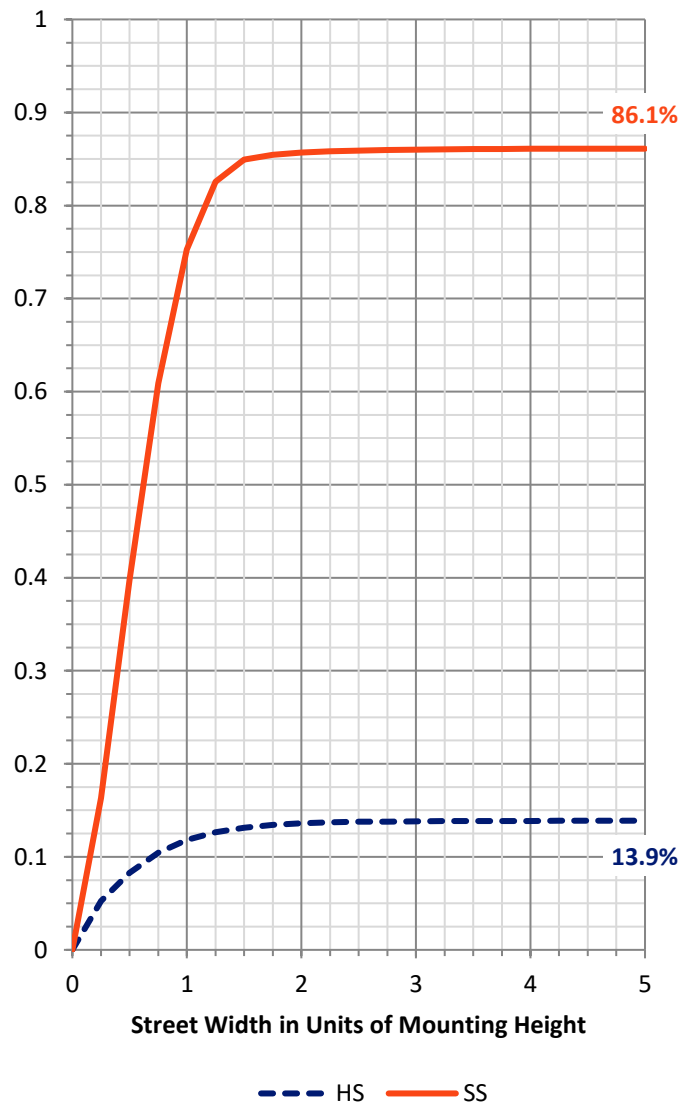
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2830.7   | 0.0    | 2830.7  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 17438.3  | 0.0    | 17438.3 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 20269.0  | 0.0    | 20269.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.0   | 1.3       |
| 10°-20°   | 1180.9  | 5.8       |
| 20°-30°   | 2477.4  | 12.2      |
| 30°-40°   | 4270.2  | 21.1      |
| 40°-50°   | 6240.9  | 30.8      |
| 50°-60°   | 4860.6  | 24.0      |
| 60°-70°   | 823.5   | 4.1       |
| 70°-80°   | 113.1   | 0.6       |
| 80°-90°   | 29.3    | 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°    | 20269.0 | 100.0     |
| 0°-180°   | 20269.0 | 100.0     |

**Coefficient of Utilization**



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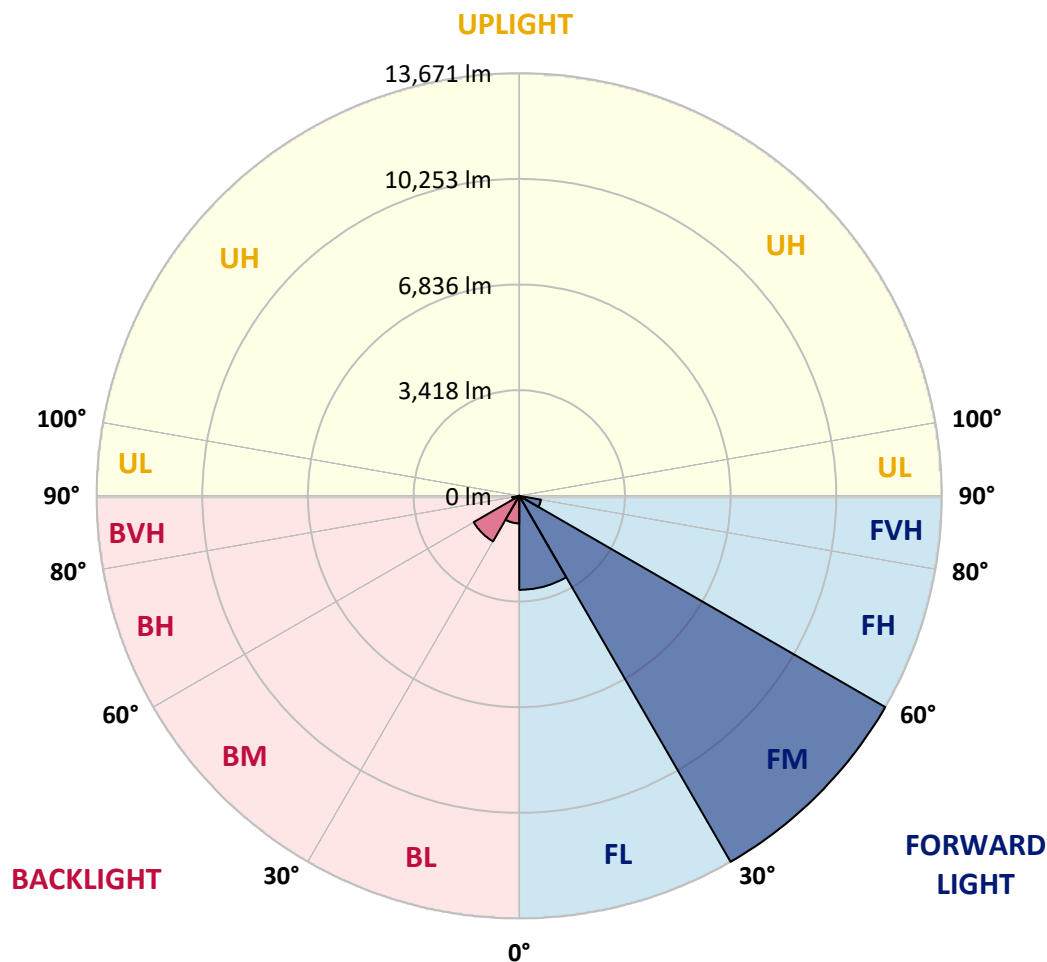
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3040.6  | 15.0      |                         |      |         |
| FM   | (30°-60°)   | 13671.1 | 67.4      |                         |      |         |
| FH   | (60°-80°)   | 713.1   | 3.5       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 13.5    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 890.8   | 4.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1700.6  | 8.4       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 223.6   | 1.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 15.8    | 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 I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2099.5  | 2099.5  | 2099.5  | 2099.5  | 2099.5  | 2099.5  | 2099.5  | 2099.5  | 2099.5  | 2099.5  | 2099.5  |
| 2.5°  | 2749.3  | 2729.3  | 2686.0  | 2606.0  | 2572.7  | 2492.7  | 2446.0  | 2356.1  | 2299.4  | 2236.1  | 2166.1  |
| 5°    | 3872.4  | 3769.0  | 3705.7  | 3615.8  | 3352.5  | 3189.2  | 2919.3  | 2689.3  | 2582.7  | 2466.0  | 2306.1  |
| 7.5°  | 5032.1  | 4965.4  | 4878.8  | 4685.5  | 4505.5  | 4165.6  | 3702.4  | 3195.9  | 2979.2  | 2779.3  | 2462.7  |
| 10°   | 5991.8  | 5805.2  | 5795.2  | 5651.9  | 5455.3  | 5048.7  | 4492.2  | 3862.4  | 3475.8  | 3182.5  | 2686.0  |
| 12.5° | 6661.6  | 6491.7  | 6568.3  | 6551.7  | 6368.4  | 5995.2  | 5352.0  | 4518.9  | 4115.6  | 3659.1  | 2915.9  |
| 15°   | 7271.5  | 7201.5  | 7178.2  | 7158.2  | 7084.9  | 6808.3  | 6231.8  | 5318.7  | 4735.5  | 4185.6  | 3175.9  |
| 17.5° | 7868.0  | 7688.1  | 7774.7  | 7791.4  | 7784.7  | 7534.8  | 6994.9  | 6078.5  | 5392.0  | 4742.1  | 3449.1  |
| 20°   | 8397.9  | 8414.5  | 8297.9  | 8274.6  | 8254.6  | 8244.6  | 7718.0  | 6831.6  | 6198.4  | 5325.3  | 3805.7  |
| 22.5° | 9077.7  | 8961.1  | 9064.4  | 8997.7  | 8867.8  | 8787.8  | 8384.5  | 7498.1  | 6898.3  | 6028.5  | 4168.9  |
| 25°   | 9880.8  | 9974.1  | 9730.9  | 9704.2  | 9560.9  | 9284.3  | 8921.1  | 8244.6  | 7571.4  | 6681.6  | 4562.2  |
| 27.5° | 10870.6 | 10707.3 | 10644.0 | 10497.3 | 10237.4 | 10120.8 | 9694.2  | 9014.4  | 8384.5  | 7368.1  | 4942.1  |
| 30°   | 11720.4 | 11677.0 | 11360.5 | 11187.2 | 10960.6 | 10957.2 | 10360.7 | 10057.5 | 9444.3  | 8444.5  | 5465.3  |
| 32.5° | 12413.5 | 12223.6 | 12106.9 | 11987.0 | 11803.7 | 11853.7 | 11350.5 | 11190.5 | 10574.0 | 9444.3  | 6081.8  |
| 35°   | 12876.7 | 12740.1 | 12670.1 | 12486.8 | 12433.5 | 12656.8 | 12446.9 | 12380.2 | 11873.7 | 10850.6 | 6804.9  |
| 37.5° | 13023.4 | 13066.7 | 13053.4 | 12823.4 | 12936.7 | 13539.9 | 13809.8 | 13636.6 | 13370.0 | 12333.5 | 7588.1  |
| 40°   | 13153.3 | 13183.3 | 13116.7 | 13386.6 | 13709.9 | 14396.4 | 15372.8 | 15086.2 | 14986.2 | 13836.5 | 8677.8  |
| 42.5° | 13226.7 | 13203.3 | 13203.3 | 13669.9 | 14159.8 | 15539.4 | 16882.4 | 16692.4 | 16615.8 | 15436.1 | 9937.5  |
| 45°   | 12910.1 | 12683.5 | 12926.7 | 13559.9 | 14546.3 | 16102.6 | 18088.8 | 18352.0 | 18242.1 | 17339.0 | 11410.4 |
| 47.5° | 11727.0 | 11867.0 | 12003.6 | 12850.1 | 14076.4 | 15929.3 | 18828.6 | 19725.0 | 19928.3 | 18938.5 | 12376.9 |
| 50°   | 9937.5  | 9907.5  | 10190.8 | 11257.2 | 12746.8 | 15182.8 | 18685.3 | 20121.6 | 20491.5 | 19418.4 | 12580.2 |
| 52.5° | 7228.2  | 7448.1  | 7754.7  | 8814.4  | 10580.7 | 13250.0 | 16835.7 | 19098.5 | 19591.7 | 18828.6 | 12446.9 |
| 55°   | 4208.9  | 3965.7  | 4655.5  | 5551.9  | 7218.2  | 9994.1  | 14233.1 | 16929.1 | 17842.2 | 17755.5 | 11773.7 |
| 57.5° | 1686.2  | 1632.9  | 1869.5  | 2519.4  | 3765.7  | 6195.1  | 10350.7 | 13909.8 | 15372.8 | 16262.6 | 10347.4 |
| 60°   | 739.8   | 723.2   | 849.8   | 1026.4  | 1539.6  | 2855.9  | 5661.9  | 8651.1  | 10177.4 | 11363.8 | 7121.5  |
| 62.5° | 533.2   | 526.5   | 589.9   | 653.2   | 813.1   | 1243.0  | 2379.4  | 3485.8  | 4345.6  | 5248.7  | 3189.2  |
| 65°   | 429.9   | 446.6   | 489.9   | 523.2   | 599.8   | 689.8   | 839.8   | 969.8   | 1189.7  | 1233.0  | 703.2   |
| 67.5° | 349.9   | 363.2   | 403.2   | 439.9   | 453.2   | 373.2   | 386.6   | 339.9   | 339.9   | 303.3   | 243.3   |
| 70°   | 256.6   | 259.9   | 306.6   | 349.9   | 279.9   | 150.0   | 263.3   | 263.3   | 236.6   | 226.6   | 206.6   |
| 72.5° | 190.0   | 193.3   | 229.9   | 216.6   | 110.0   | 93.3    | 193.3   | 213.3   | 193.3   | 183.3   | 166.6   |
| 75°   | 140.0   | 143.3   | 120.0   | 50.0    | 46.7    | 60.0    | 113.3   | 146.6   | 140.0   | 136.6   | 126.6   |
| 77.5° | 26.7    | 20.0    | 16.7    | 23.3    | 33.3    | 50.0    | 73.3    | 90.0    | 93.3    | 100.0   | 93.3    |
| 80°   | 3.3     | 3.3     | 10.0    | 20.0    | 36.7    | 53.3    | 76.6    | 86.6    | 90.0    | 93.3    | 86.6    |
| 82.5° | 0.0     | 3.3     | 10.0    | 20.0    | 36.7    | 50.0    | 66.6    | 76.6    | 83.3    | 86.6    | 83.3    |
| 85°   | 0.0     | 3.3     | 6.7     | 16.7    | 30.0    | 36.7    | 33.3    | 23.3    | 20.0    | 23.3    | 16.7    |
| 87.5° | 0.0     | 0.0     | 3.3     | 3.3     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     |
| 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°    | 2099.5 | 2099.5 | 2099.5 | 2099.5 | 2099.5 | 2099.5 | 2099.5 | 2099.5 | 2099.5 | 2099.5 | 2099.5 |
| 2.5°  | 2126.1 | 2112.8 | 2066.1 | 2016.2 | 1972.8 | 1992.8 | 1972.8 | 1956.2 | 1962.8 | 1956.2 | 1949.5 |
| 5°    | 2242.8 | 2182.8 | 2082.8 | 2039.5 | 2002.8 | 1999.5 | 1989.5 | 1986.2 | 1989.5 | 1989.5 | 1959.5 |
| 7.5°  | 2352.7 | 2256.1 | 2149.5 | 2102.8 | 2059.5 | 2062.8 | 2039.5 | 2039.5 | 2036.2 | 2019.5 | 2012.8 |
| 10°   | 2519.4 | 2389.4 | 2252.8 | 2169.5 | 2116.1 | 2106.1 | 2082.8 | 2059.5 | 2059.5 | 2059.5 | 2026.2 |
| 12.5° | 2702.7 | 2539.4 | 2352.7 | 2256.1 | 2192.8 | 2142.8 | 2106.1 | 2099.5 | 2062.8 | 2056.1 | 2039.5 |
| 15°   | 2862.6 | 2656.0 | 2419.4 | 2286.1 | 2206.1 | 2139.5 | 2082.8 | 2046.1 | 2029.5 | 2019.5 | 2006.2 |
| 17.5° | 3019.2 | 2756.0 | 2456.0 | 2286.1 | 2199.4 | 2122.8 | 2062.8 | 2029.5 | 1989.5 | 1996.2 | 1969.5 |
| 20°   | 3229.2 | 2862.6 | 2466.0 | 2242.8 | 2136.1 | 2062.8 | 1982.8 | 1966.2 | 1942.8 | 1922.8 | 1929.5 |
| 22.5° | 3432.5 | 2939.3 | 2436.1 | 2189.4 | 2036.2 | 1949.5 | 1909.5 | 1889.5 | 1879.5 | 1862.9 | 1839.5 |
| 25°   | 3615.8 | 3022.6 | 2389.4 | 2092.8 | 1929.5 | 1866.2 | 1829.5 | 1826.2 | 1802.9 | 1802.9 | 1759.6 |
| 27.5° | 3802.4 | 3052.6 | 2309.4 | 1979.5 | 1836.2 | 1799.5 | 1782.9 | 1776.2 | 1766.2 | 1742.9 | 1712.9 |
| 30°   | 4015.7 | 3062.6 | 2192.8 | 1862.9 | 1752.9 | 1712.9 | 1736.2 | 1752.9 | 1709.6 | 1666.2 | 1679.6 |
| 32.5° | 4192.3 | 3039.2 | 2052.8 | 1752.9 | 1692.9 | 1672.9 | 1719.6 | 1736.2 | 1686.2 | 1639.6 | 1616.3 |
| 35°   | 4405.6 | 2982.6 | 1916.2 | 1666.2 | 1632.9 | 1672.9 | 1712.9 | 1712.9 | 1612.9 | 1556.3 | 1542.9 |
| 37.5° | 4728.8 | 2919.3 | 1789.5 | 1592.9 | 1569.6 | 1652.9 | 1706.2 | 1669.6 | 1513.0 | 1443.0 | 1426.3 |
| 40°   | 5075.4 | 2879.3 | 1666.2 | 1519.6 | 1536.3 | 1619.6 | 1649.6 | 1536.3 | 1376.3 | 1333.0 | 1319.7 |
| 42.5° | 5578.6 | 2799.3 | 1556.3 | 1456.3 | 1506.3 | 1572.9 | 1572.9 | 1369.7 | 1309.7 | 1286.3 | 1283.0 |
| 45°   | 6205.1 | 2742.6 | 1459.6 | 1403.0 | 1463.0 | 1479.6 | 1426.3 | 1283.0 | 1239.7 | 1233.0 | 1236.4 |
| 47.5° | 6511.7 | 2632.7 | 1359.7 | 1339.7 | 1383.0 | 1386.3 | 1246.4 | 1213.0 | 1176.4 | 1166.4 | 1159.7 |
| 50°   | 6465.0 | 2436.1 | 1229.7 | 1256.3 | 1316.3 | 1283.0 | 1136.4 | 1143.0 | 1109.7 | 1106.4 | 1089.7 |
| 52.5° | 6138.4 | 2126.1 | 1099.7 | 1163.0 | 1229.7 | 1133.0 | 1046.4 | 1039.7 | 1039.7 | 996.4  | 979.8  |
| 55°   | 5442.0 | 1712.9 | 943.1  | 1023.1 | 1103.1 | 953.1  | 929.8  | 923.1  | 906.4  | 866.4  | 856.5  |
| 57.5° | 4308.9 | 1256.3 | 709.8  | 796.5  | 936.4  | 809.8  | 806.5  | 776.5  | 733.1  | 703.2  | 703.2  |
| 60°   | 2562.7 | 723.2  | 446.6  | 486.5  | 619.8  | 656.5  | 729.8  | 716.5  | 643.2  | 596.5  | 583.2  |
| 62.5° | 1169.7 | 373.2  | 283.3  | 289.9  | 333.2  | 426.6  | 573.2  | 663.2  | 559.9  | 479.9  | 473.2  |
| 65°   | 393.2  | 276.6  | 233.3  | 223.3  | 229.9  | 256.6  | 343.2  | 469.9  | 446.6  | 369.9  | 356.6  |
| 67.5° | 239.9  | 246.6  | 219.9  | 203.3  | 203.3  | 199.9  | 196.6  | 213.3  | 263.3  | 256.6  | 259.9  |
| 70°   | 206.6  | 226.6  | 203.3  | 183.3  | 176.6  | 166.6  | 140.0  | 116.6  | 100.0  | 116.6  | 123.3  |
| 72.5° | 166.6  | 180.0  | 173.3  | 156.6  | 140.0  | 126.6  | 100.0  | 76.6   | 56.7   | 50.0   | 50.0   |
| 75°   | 123.3  | 133.3  | 140.0  | 120.0  | 106.6  | 90.0   | 73.3   | 50.0   | 30.0   | 20.0   | 20.0   |
| 77.5° | 90.0   | 100.0  | 103.3  | 93.3   | 80.0   | 63.3   | 46.7   | 33.3   | 16.7   | 6.7    | 6.7    |
| 80°   | 76.6   | 90.0   | 100.0  | 93.3   | 83.3   | 60.0   | 43.3   | 23.3   | 13.3   | 3.3    | 3.3    |
| 82.5° | 73.3   | 90.0   | 100.0  | 90.0   | 80.0   | 56.7   | 43.3   | 26.7   | 10.0   | 3.3    | 3.3    |
| 85°   | 16.7   | 23.3   | 30.0   | 36.7   | 43.3   | 43.3   | 33.3   | 20.0   | 10.0   | 3.3    | 3.3    |
| 87.5° | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 3.3    | 3.3    | 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)