

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: P192723

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7030-1200**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-AFL-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 32381.2 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 320  
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: 28.75 FT



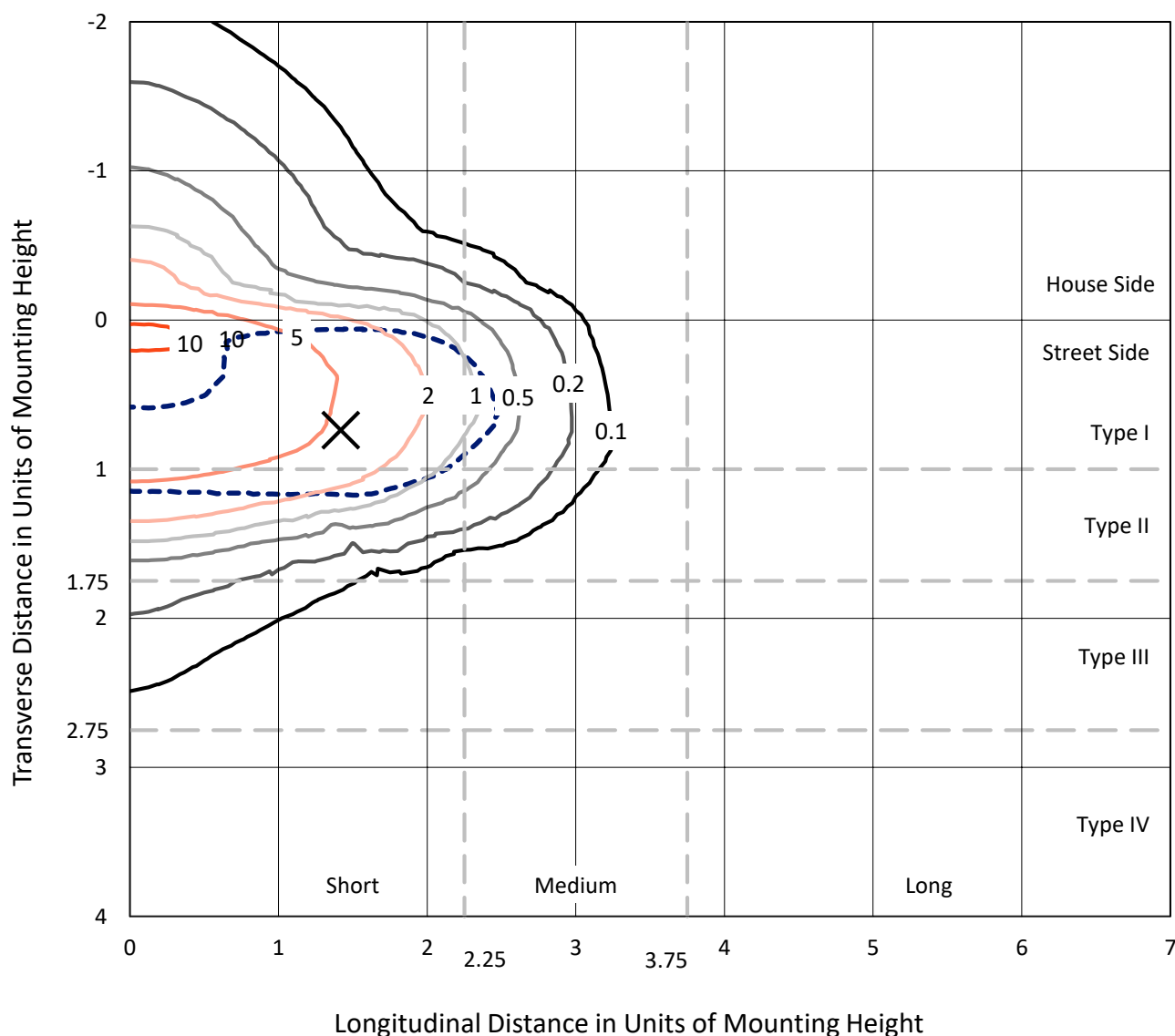
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

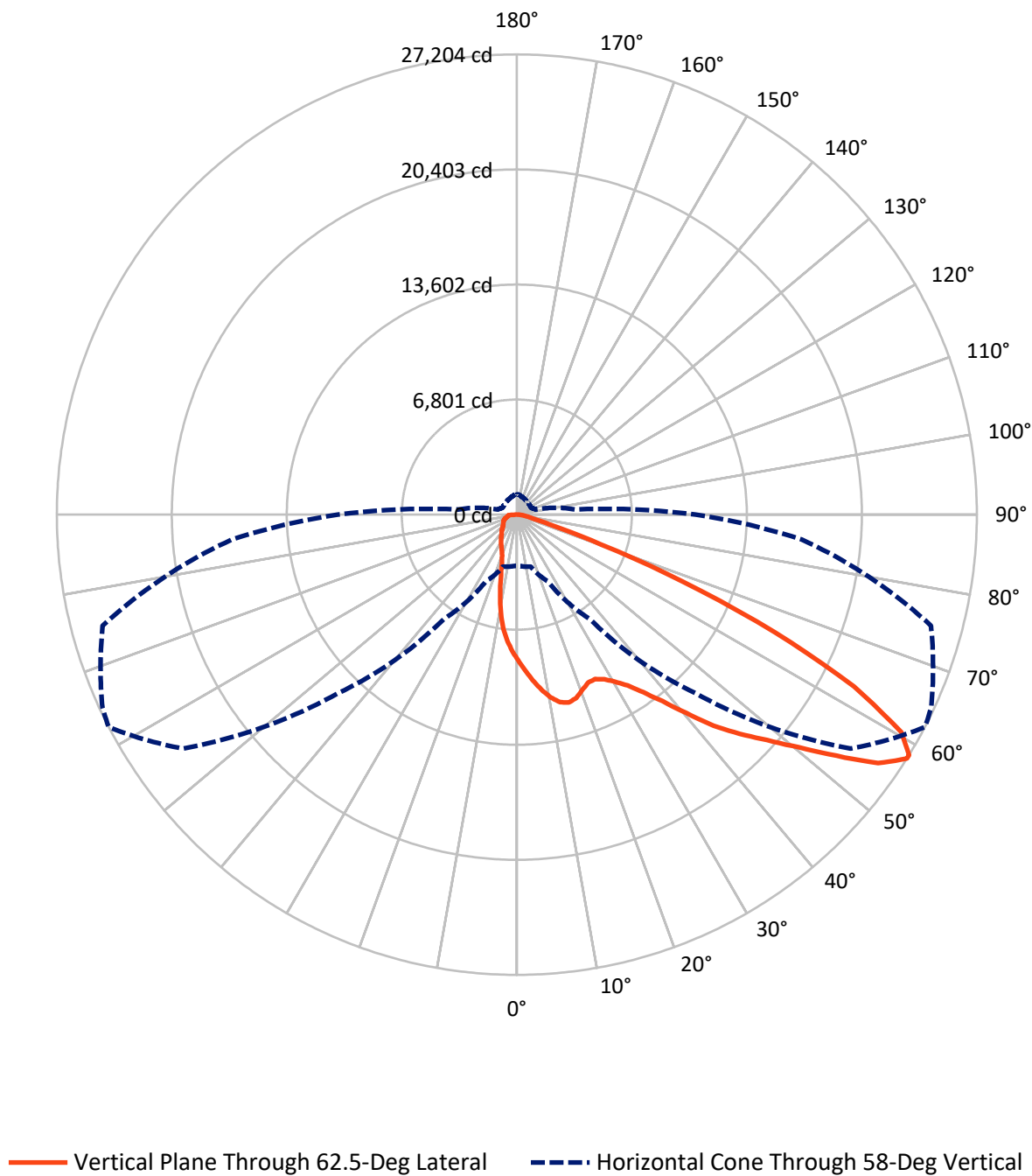


Based on 30 foot mounting height. Maximum calculated value = 11.6 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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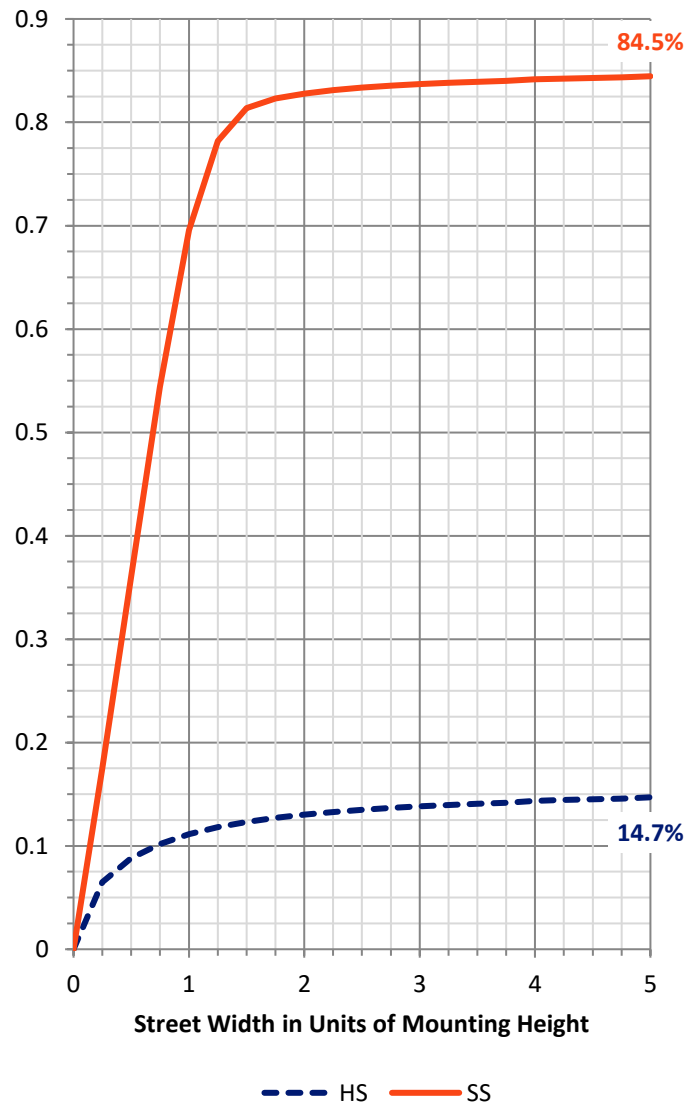
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4938.2   | 0.0    | 4938.2  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 27442.9  | 0.0    | 27442.9 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 32381.2  | 0.0    | 32381.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 769.3   | 2.4       |
| 10°-20°   | 1966.4  | 6.1       |
| 20°-30°   | 3178.7  | 9.8       |
| 30°-40°   | 5046.2  | 15.6      |
| 40°-50°   | 7383.6  | 22.8      |
| 50°-60°   | 7722.6  | 23.8      |
| 60°-70°   | 4562.5  | 14.1      |
| 70°-80°   | 1285.3  | 4.0       |
| 80°-90°   | 466.6   | 1.4       |
| 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°    | 32381.2 | 100.0     |
| 0°-180°   | 32381.2 | 100.0     |

**Coefficient of Utilization**



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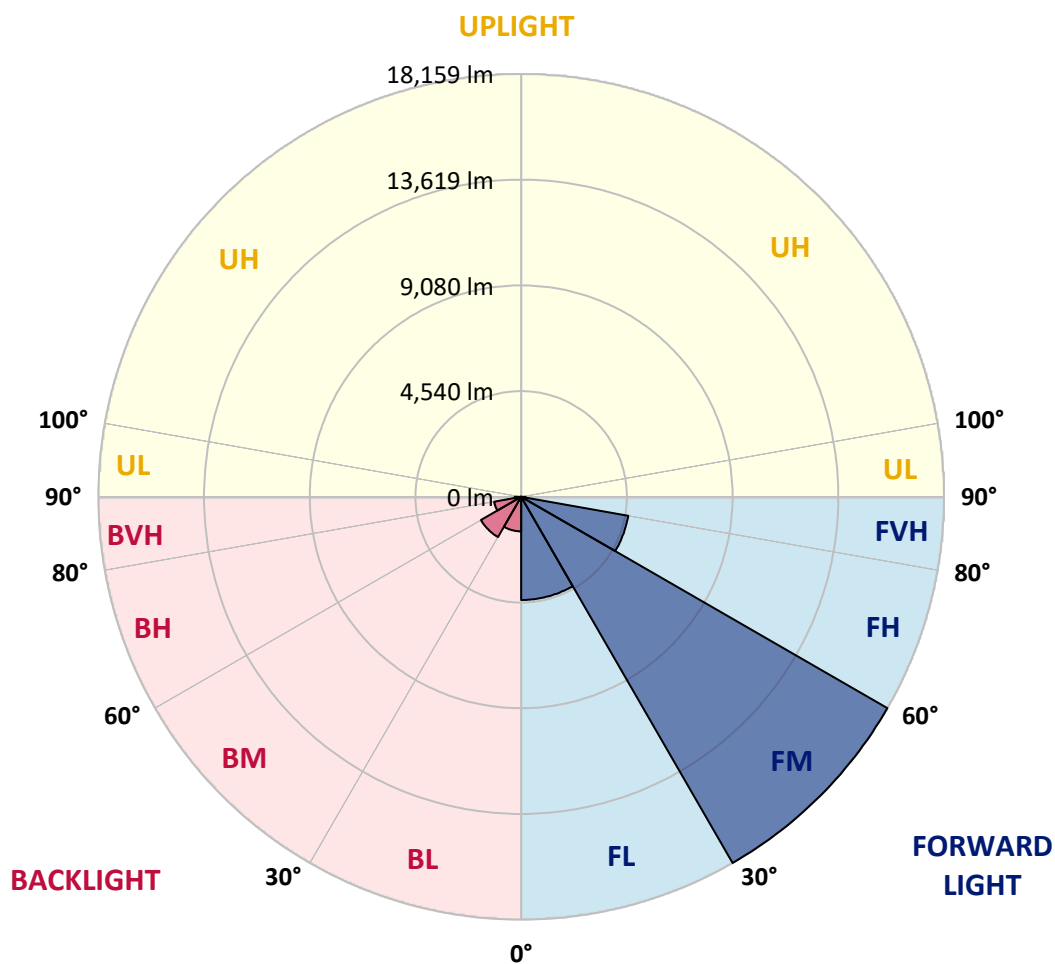
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4430.1  | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 18159.2 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 4669.5  | 14.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 184.1   | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1484.2  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1993.2  | 6.2       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1178.3  | 3.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 282.5   | 0.9       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8601.4  | 8601.4  | 8601.4  | 8601.4  | 8601.4  | 8601.4  | 8601.4  | 8601.4  | 8601.4  | 8601.4  | 8601.4  |
| 2.5°  | 9828.9  | 9749.5  | 9699.3  | 9655.0  | 9597.2  | 9473.6  | 9307.4  | 9202.2  | 9148.9  | 8967.4  | 8752.3  |
| 5°    | 10792.5 | 10722.3 | 10670.6 | 10611.0 | 10507.4 | 10313.7 | 10045.4 | 9831.9  | 9726.7  | 9363.8  | 8933.8  |
| 7.5°  | 10566.9 | 10595.9 | 10685.8 | 10842.9 | 10977.1 | 10951.2 | 10711.7 | 10440.3 | 10301.5 | 9796.8  | 9144.2  |
| 10°   | 9206.7  | 9257.1  | 9412.5  | 9780.1  | 10374.7 | 10984.7 | 11170.6 | 10983.2 | 10842.9 | 10225.3 | 9360.8  |
| 12.5° | 8933.8  | 8932.3  | 8944.5  | 9042.1  | 9395.9  | 10254.3 | 11186.0 | 11375.0 | 11291.2 | 10633.9 | 9581.8  |
| 15°   | 9045.1  | 9048.2  | 9039.0  | 9080.2  | 9190.1  | 9530.0  | 10719.3 | 11526.0 | 11585.5 | 11045.7 | 9810.6  |
| 17.5° | 9337.9  | 9330.3  | 9295.2  | 9295.2  | 9334.8  | 9467.6  | 10170.4 | 11385.7 | 11660.1 | 11410.1 | 10011.9 |
| 20°   | 9828.9  | 9793.8  | 9700.8  | 9615.4  | 9572.6  | 9644.4  | 9944.8  | 11062.4 | 11530.5 | 11728.8 | 10178.0 |
| 22.5° | 10423.6 | 10396.1 | 10245.1 | 10062.1 | 9914.3  | 9912.8  | 10060.6 | 10780.3 | 11306.3 | 12029.1 | 10318.3 |
| 25°   | 11192.1 | 11147.8 | 10923.6 | 10630.9 | 10371.7 | 10272.5 | 10313.7 | 10766.6 | 11184.5 | 12355.5 | 10443.3 |
| 27.5° | 12094.7 | 12013.9 | 11748.5 | 11326.3 | 10945.0 | 10745.3 | 10685.8 | 11015.2 | 11295.8 | 12759.6 | 10617.2 |
| 30°   | 13189.6 | 13096.5 | 12756.4 | 12206.0 | 11667.8 | 11339.9 | 11213.4 | 11455.9 | 11664.7 | 13252.0 | 10896.2 |
| 32.5° | 14435.4 | 14301.1 | 13907.7 | 13300.7 | 12593.3 | 12093.2 | 11887.3 | 12038.3 | 12204.5 | 13845.3 | 11245.4 |
| 35°   | 16156.8 | 15996.6 | 15428.0 | 14590.8 | 13791.8 | 13104.1 | 12774.8 | 12884.5 | 13046.2 | 14729.6 | 11750.1 |
| 37.5° | 17330.9 | 17259.2 | 16881.1 | 16094.2 | 15225.2 | 14433.8 | 13924.4 | 13988.5 | 14080.0 | 15835.1 | 12396.7 |
| 40°   | 17320.3 | 17349.2 | 17356.8 | 17364.5 | 16772.8 | 16015.0 | 15467.7 | 15400.5 | 15382.2 | 17048.9 | 13131.6 |
| 42.5° | 16452.6 | 16571.6 | 16955.7 | 17735.0 | 18094.8 | 17747.2 | 17245.5 | 17051.9 | 16955.7 | 18479.0 | 13910.8 |
| 45°   | 15124.5 | 15188.5 | 15908.2 | 17430.0 | 18771.9 | 19462.6 | 19082.9 | 18472.9 | 18299.2 | 19793.4 | 14557.2 |
| 47.5° | 14439.8 | 14509.9 | 14962.8 | 16621.8 | 18764.1 | 20848.7 | 21068.1 | 19906.3 | 19595.2 | 20937.1 | 15115.4 |
| 50°   | 12809.9 | 12956.2 | 13526.6 | 15216.0 | 18079.5 | 21486.0 | 23143.4 | 21614.0 | 20970.5 | 22050.1 | 15675.0 |
| 52.5° | 9816.6  | 10042.3 | 10681.1 | 12904.4 | 16342.8 | 21170.3 | 24803.9 | 23684.6 | 22775.9 | 23202.9 | 16155.3 |
| 55°   | 6192.2  | 6360.0  | 6896.7  | 9113.8  | 13073.6 | 19528.1 | 25433.7 | 25924.6 | 25116.5 | 24294.7 | 16571.6 |
| 57.5° | 3366.8  | 3441.4  | 3642.7  | 5031.8  | 8503.7  | 15897.6 | 24515.7 | 27199.4 | 26863.9 | 25221.7 | 16885.7 |
| 58°   | 3013.1  | 3063.3  | 3188.4  | 4361.0  | 7541.6  | 14904.9 | 24108.6 | 27203.9 | 27036.2 | 25357.4 | 16910.0 |
| 60°   | 2235.3  | 2209.4  | 2098.1  | 2488.5  | 4197.7  | 10297.0 | 21647.5 | 26115.2 | 26607.8 | 25523.6 | 16791.1 |
| 62.5° | 1963.9  | 1901.4  | 1674.2  | 1648.2  | 2041.7  | 4743.6  | 16563.9 | 22370.4 | 23533.8 | 24575.2 | 16068.3 |
| 65°   | 1845.1  | 1777.8  | 1485.2  | 1390.7  | 1473.0  | 2006.6  | 9757.2  | 16777.5 | 18236.6 | 21699.4 | 14220.3 |
| 67.5° | 1756.6  | 1669.7  | 1364.6  | 1235.0  | 1241.1  | 1326.6  | 3911.2  | 10566.9 | 12209.0 | 16475.4 | 11060.9 |
| 70°   | 1671.2  | 1576.6  | 1262.5  | 1113.2  | 1078.1  | 1049.1  | 1555.3  | 5289.6  | 6779.2  | 10406.7 | 7052.2  |
| 72.5° | 1579.7  | 1486.7  | 1172.6  | 1017.1  | 948.5   | 852.3   | 1015.6  | 2163.7  | 3022.1  | 4923.6  | 3199.0  |
| 75°   | 1447.0  | 1363.1  | 1082.6  | 931.7   | 834.0   | 706.1   | 767.0   | 1129.8  | 1355.6  | 1960.8  | 1541.5  |
| 77.5° | 1283.9  | 1215.3  | 982.0   | 861.5   | 739.5   | 573.3   | 590.1   | 783.7   | 869.1   | 1122.2  | 916.3   |
| 80°   | 922.4   | 947.0   | 873.7   | 774.6   | 658.8   | 465.1   | 452.9   | 571.8   | 617.6   | 721.2   | 596.2   |
| 82.5° | 648.0   | 661.8   | 722.8   | 632.8   | 544.3   | 365.9   | 333.9   | 402.5   | 430.1   | 474.1   | 321.8   |
| 85°   | 446.8   | 431.5   | 495.6   | 440.7   | 393.5   | 243.9   | 228.7   | 272.9   | 289.7   | 294.2   | 166.2   |
| 87.5° | 268.3   | 268.3   | 286.7   | 236.3   | 212.0   | 126.5   | 123.5   | 155.4   | 166.2   | 158.5   | 91.4    |
| 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°    | 8601.4  | 8601.4 | 8601.4 | 8601.4 | 8601.4 | 8601.4 | 8601.4 | 8601.4 | 8601.4 | 8601.4 | 8601.4 |
| 2.5°  | 8624.3  | 8516.0 | 8285.7 | 8101.2 | 7868.0 | 7625.5 | 7489.8 | 7345.0 | 7245.8 | 7174.2 | 7288.5 |
| 5°    | 8689.8  | 8468.8 | 7993.0 | 7541.6 | 7043.1 | 6524.6 | 6131.2 | 5765.3 | 5510.6 | 5352.1 | 5501.5 |
| 7.5°  | 8793.5  | 8453.5 | 7695.6 | 6924.1 | 6029.0 | 5166.0 | 4394.5 | 3911.2 | 3629.0 | 3490.3 | 3577.1 |
| 10°   | 8912.5  | 8429.2 | 7346.5 | 6087.1 | 4806.2 | 3718.9 | 3142.7 | 2947.5 | 2883.4 | 2857.4 | 2869.7 |
| 12.5° | 9011.6  | 8377.2 | 6918.0 | 5074.5 | 3609.2 | 2936.8 | 2770.6 | 2766.0 | 2779.7 | 2782.8 | 2787.3 |
| 15°   | 9081.7  | 8301.0 | 6282.2 | 4019.3 | 2886.4 | 2676.0 | 2666.9 | 2694.4 | 2720.2 | 2730.9 | 2737.1 |
| 17.5° | 9128.9  | 8143.9 | 5564.0 | 3177.7 | 2586.0 | 2549.4 | 2570.8 | 2605.9 | 2633.3 | 2640.9 | 2647.1 |
| 20°   | 9124.4  | 7913.7 | 4708.6 | 2650.1 | 2423.0 | 2423.0 | 2459.5 | 2487.0 | 2488.5 | 2479.3 | 2483.9 |
| 22.5° | 9077.1  | 7598.1 | 3879.1 | 2369.5 | 2278.0 | 2304.0 | 2340.6 | 2314.6 | 2207.9 | 2137.7 | 2142.3 |
| 25°   | 8997.8  | 7221.5 | 3168.5 | 2191.0 | 2143.8 | 2189.7 | 2178.9 | 1983.7 | 1831.3 | 1762.7 | 1762.7 |
| 27.5° | 8927.7  | 6776.3 | 2622.7 | 2035.6 | 2009.8 | 2066.1 | 1877.1 | 1700.2 | 1636.1 | 1604.0 | 1593.4 |
| 30°   | 8877.5  | 6295.8 | 2258.3 | 1886.2 | 1883.1 | 1842.0 | 1628.5 | 1579.7 | 1569.1 | 1543.1 | 1534.0 |
| 32.5° | 8889.6  | 5809.6 | 2024.9 | 1755.0 | 1765.7 | 1576.6 | 1509.5 | 1520.3 | 1511.0 | 1483.6 | 1471.4 |
| 35°   | 8990.2  | 5347.4 | 1872.4 | 1636.1 | 1604.0 | 1424.2 | 1439.4 | 1459.2 | 1456.2 | 1418.0 | 1405.8 |
| 37.5° | 9170.1  | 4909.9 | 1771.8 | 1537.0 | 1399.7 | 1347.9 | 1372.3 | 1402.8 | 1395.2 | 1369.2 | 1360.2 |
| 40°   | 9359.2  | 4498.2 | 1689.4 | 1459.2 | 1279.3 | 1296.1 | 1317.4 | 1334.2 | 1341.8 | 1349.5 | 1343.4 |
| 42.5° | 9543.7  | 4068.2 | 1588.8 | 1380.0 | 1228.9 | 1247.3 | 1256.5 | 1273.2 | 1314.4 | 1343.4 | 1341.8 |
| 45°   | 9653.5  | 3664.1 | 1485.2 | 1267.1 | 1189.4 | 1200.0 | 1193.8 | 1227.4 | 1277.8 | 1325.1 | 1326.6 |
| 47.5° | 9775.5  | 3350.0 | 1402.8 | 1163.4 | 1151.3 | 1158.8 | 1140.5 | 1174.1 | 1219.9 | 1277.8 | 1283.9 |
| 50°   | 9923.4  | 3162.4 | 1337.3 | 1081.1 | 1099.3 | 1099.3 | 1094.8 | 1125.3 | 1189.4 | 1256.5 | 1268.6 |
| 52.5° | 10091.0 | 3125.8 | 1282.3 | 1021.6 | 1047.6 | 1046.0 | 1050.6 | 1096.3 | 1166.5 | 1232.0 | 1242.8 |
| 55°   | 10295.5 | 3225.0 | 1222.9 | 977.5  | 997.2  | 1003.3 | 1018.6 | 1070.4 | 1129.8 | 1204.6 | 1209.2 |
| 57.5° | 10533.3 | 3426.3 | 1175.6 | 942.4  | 951.4  | 971.4  | 995.7  | 1043.0 | 1107.1 | 1189.4 | 1193.8 |
| 58°   | 10573.0 | 3468.9 | 1168.0 | 939.3  | 942.4  | 965.2  | 992.6  | 1038.4 | 1102.4 | 1192.3 | 1196.9 |
| 60°   | 10574.4 | 3610.7 | 1151.3 | 925.5  | 907.3  | 945.4  | 975.9  | 1021.6 | 1094.8 | 1203.1 | 1213.8 |
| 62.5° | 10199.4 | 3609.2 | 1139.0 | 905.8  | 870.7  | 917.9  | 953.0  | 1006.4 | 1087.1 | 1228.9 | 1250.4 |
| 65°   | 8981.1  | 3279.9 | 1081.1 | 875.2  | 841.8  | 893.5  | 933.2  | 995.7  | 1108.6 | 1341.8 | 1355.6 |
| 67.5° | 7024.8  | 2688.3 | 972.9  | 832.5  | 803.6  | 869.1  | 920.9  | 994.1  | 1131.4 | 1367.7 | 1376.8 |
| 70°   | 4644.5  | 2011.3 | 853.9  | 783.7  | 763.9  | 840.2  | 927.1  | 1046.0 | 1105.4 | 1312.9 | 1288.5 |
| 72.5° | 2410.7  | 1411.9 | 757.8  | 722.8  | 718.2  | 814.2  | 1015.6 | 1039.9 | 1079.6 | 1235.0 | 1204.6 |
| 75°   | 1265.5  | 980.5  | 673.9  | 655.7  | 663.3  | 808.2  | 1198.5 | 1012.5 | 1046.0 | 1181.7 | 1239.6 |
| 77.5° | 774.6   | 791.4  | 602.3  | 594.7  | 609.8  | 789.8  | 1196.9 | 977.5  | 997.2  | 1087.1 | 1151.3 |
| 80°   | 518.4   | 641.9  | 547.4  | 548.9  | 559.6  | 722.8  | 1075.0 | 922.4  | 937.8  | 1027.7 | 1093.2 |
| 82.5° | 327.8   | 379.6  | 497.1  | 523.1  | 509.2  | 596.2  | 913.4  | 840.2  | 861.5  | 1175.6 | 1242.8 |
| 85°   | 166.2   | 237.8  | 431.5  | 503.1  | 459.0  | 417.8  | 741.1  | 736.5  | 747.2  | 847.8  | 885.9  |
| 87.5° | 76.3    | 131.1  | 336.9  | 439.1  | 346.2  | 260.7  | 538.2  | 545.9  | 588.6  | 602.3  | 602.3  |
| 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)