

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: P269792

Luminaire Tested: **GAP-AF-01-LED-U-SL2-7027-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P269792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-01-LED-U-SL2-7027-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4574.6 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 59  
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



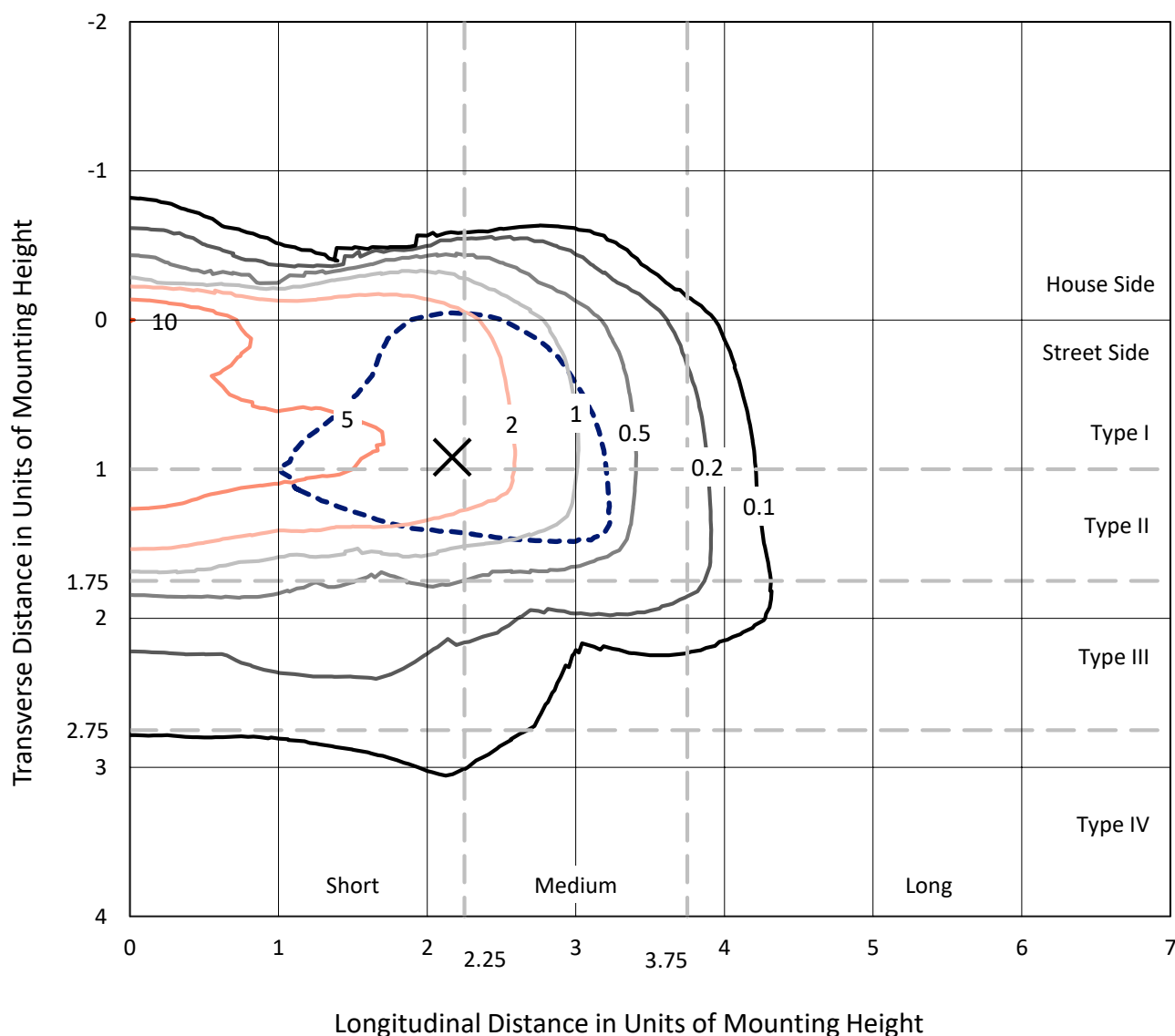
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

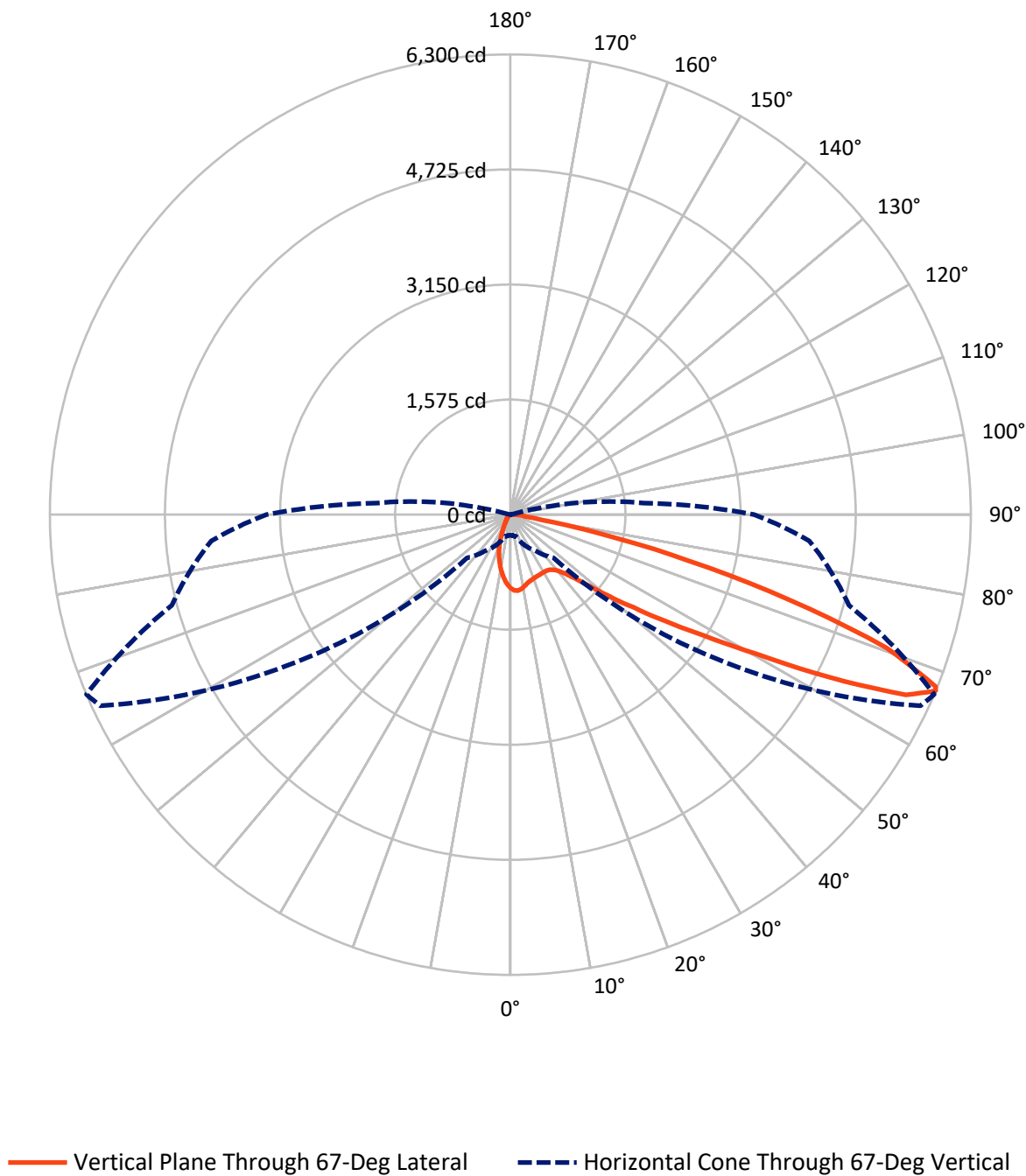


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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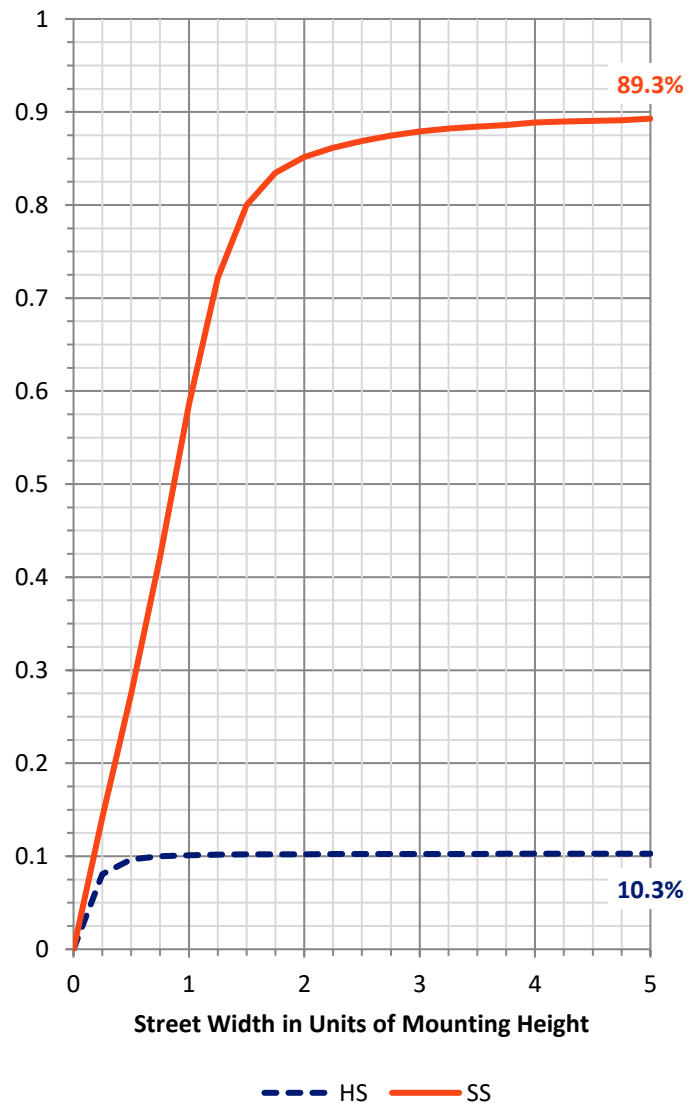
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 475.0    | 0.0    | 475.0  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 4099.7   | 0.0    | 4099.7 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 4574.6   | 0.0    | 4574.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.1   | 1.8       |
| 10°-20°   | 174.7  | 3.8       |
| 20°-30°   | 254.0  | 5.6       |
| 30°-40°   | 396.3  | 8.7       |
| 40°-50°   | 702.0  | 15.3      |
| 50°-60°   | 1110.9 | 24.3      |
| 60°-70°   | 1272.4 | 27.8      |
| 70°-80°   | 527.8  | 11.5      |
| 80°-90°   | 54.5   | 1.2       |
| 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°    | 4574.6 | 100.0     |
| 0°-180°   | 4574.6 | 100.0     |

**Coefficient of Utilization**



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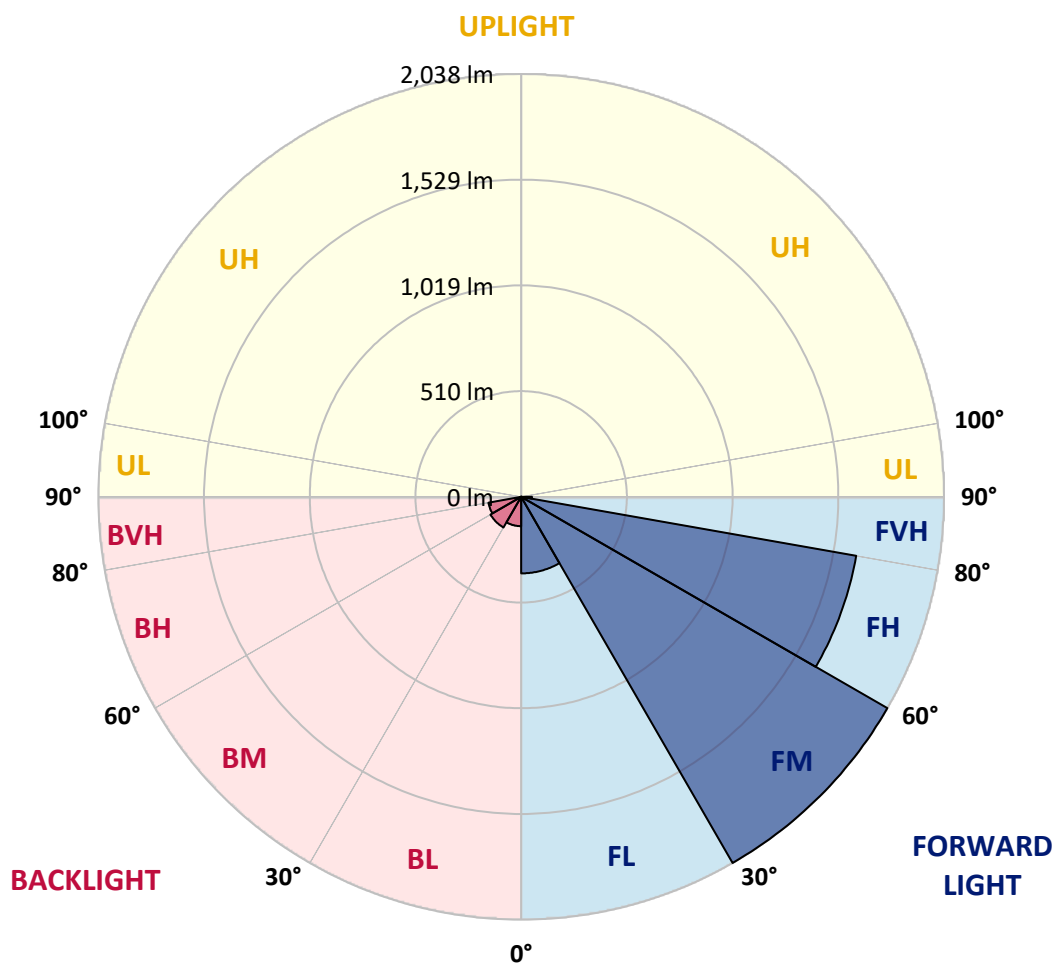
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 369.1  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 2038.5 | 44.6      |                         |      |         |
| FH   | (60°-80°)   | 1640.0 | 35.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 52.1   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 141.7  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 170.7  | 3.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 160.1  | 3.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.4    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 |
| 2.5°  | 1043.0 | 1045.2 | 1044.9 | 1046.5 | 1050.3 | 1050.5 | 1046.7 | 1039.6 | 1038.0 | 1028.6 | 1012.4 |
| 5°    | 961.9  | 968.1  | 971.7  | 987.0  | 1004.0 | 1024.6 | 1040.1 | 1045.6 | 1044.9 | 1038.3 | 1013.6 |
| 7.5°  | 869.3  | 875.5  | 879.7  | 897.6  | 920.4  | 955.4  | 995.9  | 1028.9 | 1031.9 | 1039.0 | 1012.6 |
| 10°   | 807.7  | 808.7  | 814.7  | 831.7  | 855.5  | 891.5  | 939.4  | 997.4  | 1006.2 | 1032.6 | 1010.0 |
| 12.5° | 757.0  | 757.8  | 765.5  | 784.0  | 809.4  | 845.6  | 896.0  | 963.1  | 976.5  | 1024.6 | 1009.4 |
| 15°   | 721.0  | 723.9  | 730.9  | 750.1  | 777.0  | 813.1  | 864.8  | 937.7  | 953.9  | 1021.7 | 1014.2 |
| 17.5° | 708.9  | 712.1  | 714.3  | 728.2  | 752.7  | 788.0  | 841.1  | 921.1  | 939.4  | 1023.3 | 1023.6 |
| 20°   | 721.5  | 723.9  | 719.2  | 722.5  | 737.8  | 769.3  | 821.1  | 907.0  | 928.8  | 1025.1 | 1035.6 |
| 22.5° | 768.2  | 769.3  | 756.3  | 741.0  | 738.3  | 755.7  | 805.3  | 895.8  | 919.2  | 1030.3 | 1049.7 |
| 25°   | 848.3  | 846.5  | 825.1  | 792.2  | 761.3  | 753.3  | 796.0  | 888.9  | 914.5  | 1035.6 | 1064.4 |
| 27.5° | 944.8  | 947.5  | 918.2  | 870.4  | 811.3  | 769.3  | 794.6  | 885.9  | 912.3  | 1039.2 | 1077.2 |
| 30°   | 1062.2 | 1066.0 | 1032.3 | 972.3  | 887.7  | 808.7  | 806.9  | 885.3  | 910.9  | 1037.0 | 1078.2 |
| 32.5° | 1182.1 | 1186.7 | 1160.3 | 1098.3 | 989.7  | 874.9  | 834.6  | 891.2  | 913.7  | 1028.6 | 1072.1 |
| 35°   | 1307.5 | 1314.0 | 1296.3 | 1243.2 | 1127.9 | 970.4  | 883.5  | 909.1  | 926.2  | 1027.8 | 1066.0 |
| 37.5° | 1480.6 | 1486.5 | 1453.5 | 1397.1 | 1295.1 | 1098.5 | 961.9  | 942.7  | 955.7  | 1040.6 | 1067.5 |
| 40°   | 1739.2 | 1738.4 | 1653.1 | 1566.9 | 1479.0 | 1261.3 | 1072.1 | 1003.5 | 1010.2 | 1079.4 | 1087.4 |
| 42.5° | 2020.9 | 2019.6 | 1893.4 | 1762.5 | 1683.2 | 1461.7 | 1217.1 | 1108.7 | 1104.1 | 1150.5 | 1138.5 |
| 45°   | 2238.1 | 2237.9 | 2134.9 | 1987.4 | 1928.9 | 1691.7 | 1404.3 | 1254.9 | 1247.9 | 1266.4 | 1233.1 |
| 47.5° | 2330.7 | 2332.4 | 2280.5 | 2176.9 | 2201.3 | 2002.9 | 1640.5 | 1466.8 | 1456.3 | 1448.8 | 1398.2 |
| 50°   | 2258.7 | 2261.9 | 2266.2 | 2245.9 | 2401.2 | 2420.9 | 1957.1 | 1765.3 | 1760.3 | 1726.9 | 1647.8 |
| 52.5° | 2023.4 | 2039.6 | 2089.7 | 2154.1 | 2470.6 | 2822.2 | 2453.8 | 2136.3 | 2109.0 | 2073.6 | 1986.3 |
| 55°   | 1626.9 | 1644.7 | 1739.9 | 1896.1 | 2367.4 | 3085.9 | 3149.6 | 2614.3 | 2569.1 | 2463.2 | 2337.2 |
| 57.5° | 1076.7 | 1104.5 | 1242.6 | 1441.2 | 2067.4 | 3128.3 | 3843.9 | 3278.1 | 3120.1 | 2830.0 | 2688.1 |
| 60°   | 593.2  | 619.8  | 769.8  | 949.7  | 1493.3 | 2918.7 | 4311.0 | 4142.1 | 3862.9 | 3240.1 | 3114.2 |
| 62.5° | 365.3  | 379.8  | 490.5  | 657.6  | 895.5  | 2303.6 | 4407.5 | 5227.7 | 4904.7 | 3768.2 | 3629.0 |
| 65°   | 290.8  | 297.0  | 351.1  | 537.6  | 642.0  | 1370.2 | 4095.6 | 6055.5 | 5947.7 | 4407.5 | 4089.8 |
| 67°   | 282.2  | 284.8  | 310.4  | 461.5  | 605.2  | 839.9  | 3431.2 | 6190.2 | 6299.6 | 4794.4 | 4104.1 |
| 67.5° | 284.1  | 286.9  | 311.2  | 440.4  | 604.1  | 772.0  | 3202.3 | 6137.1 | 6275.3 | 4825.1 | 4040.3 |
| 70°   | 274.1  | 282.2  | 356.2  | 440.3  | 574.5  | 641.5  | 1917.7 | 5317.3 | 5461.2 | 4483.4 | 3428.2 |
| 72.5° | 97.1   | 97.6   | 154.0  | 356.2  | 624.6  | 648.3  | 963.1  | 3898.1 | 4004.6 | 3429.5 | 2471.6 |
| 75°   | 57.6   | 49.0   | 51.3   | 101.4  | 597.0  | 629.7  | 555.5  | 2490.9 | 2530.6 | 1965.2 | 1251.7 |
| 77.5° | 39.7   | 34.7   | 35.8   | 44.8   | 227.4  | 620.9  | 441.3  | 1298.9 | 1256.5 | 689.2  | 266.5  |
| 80°   | 22.6   | 20.0   | 21.3   | 39.3   | 82.7   | 579.2  | 416.3  | 526.8  | 449.1  | 116.9  | 73.7   |
| 82.5° | 11.9   | 10.2   | 12.2   | 32.2   | 57.6   | 360.9  | 417.1  | 254.6  | 201.7  | 39.4   | 50.1   |
| 85°   | 4.2    | 3.5    | 5.8    | 22.2   | 38.4   | 110.8  | 386.6  | 213.9  | 168.2  | 19.3   | 38.2   |
| 87.5° | 0.8    | 0.8    | 2.3    | 9.1    | 15.5   | 33.9   | 228.7  | 127.0  | 85.1   | 11.5   | 26.1   |
| 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°    | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 | 1008.8 |
| 2.5°  | 1005.7 | 994.2  | 978.8  | 959.7  | 937.4  | 917.6  | 902.9  | 887.7  | 884.6  | 879.3  | 878.5  |
| 5°    | 999.0  | 979.2  | 940.9  | 896.8  | 849.8  | 807.4  | 773.0  | 742.3  | 728.7  | 716.9  | 715.6  |
| 7.5°  | 989.2  | 959.5  | 894.2  | 823.1  | 749.7  | 683.2  | 626.5  | 586.6  | 549.7  | 532.1  | 529.5  |
| 10°   | 977.6  | 935.2  | 841.6  | 743.1  | 641.7  | 547.5  | 463.4  | 393.1  | 350.3  | 324.9  | 321.9  |
| 12.5° | 966.9  | 911.5  | 788.0  | 660.2  | 525.4  | 399.4  | 291.4  | 224.1  | 179.3  | 161.2  | 159.0  |
| 15°   | 961.9  | 892.2  | 737.8  | 575.3  | 403.7  | 254.3  | 159.3  | 123.2  | 108.5  | 104.4  | 104.1  |
| 17.5° | 961.4  | 875.9  | 688.7  | 487.5  | 282.8  | 147.9  | 103.8  | 94.7   | 91.7   | 90.6   | 90.6   |
| 20°   | 961.1  | 860.5  | 639.7  | 396.5  | 179.7  | 98.5   | 86.4   | 84.4   | 82.1   | 80.8   | 80.8   |
| 22.5° | 964.1  | 846.7  | 588.4  | 303.6  | 113.1  | 79.8   | 76.0   | 73.9   | 71.2   | 69.3   | 69.1   |
| 25°   | 966.9  | 836.1  | 536.1  | 216.1  | 81.9   | 69.3   | 65.7   | 62.7   | 59.0   | 56.6   | 56.4   |
| 27.5° | 967.6  | 822.7  | 480.1  | 144.6  | 68.6   | 60.5   | 55.8   | 51.3   | 46.9   | 44.6   | 44.2   |
| 30°   | 959.5  | 800.2  | 417.8  | 97.6   | 60.5   | 52.6   | 46.2   | 41.3   | 37.4   | 35.6   | 35.6   |
| 32.5° | 943.8  | 772.5  | 349.5  | 73.7   | 53.9   | 45.0   | 38.2   | 33.6   | 30.9   | 30.2   | 29.9   |
| 35°   | 929.7  | 742.5  | 279.4  | 62.4   | 48.2   | 38.2   | 31.3   | 28.2   | 26.7   | 26.4   | 26.1   |
| 37.5° | 921.4  | 718.6  | 213.4  | 56.6   | 42.9   | 32.0   | 26.4   | 24.3   | 23.4   | 22.9   | 23.3   |
| 40°   | 927.8  | 698.5  | 157.7  | 51.7   | 37.5   | 26.7   | 22.4   | 21.3   | 20.5   | 20.3   | 20.3   |
| 42.5° | 955.7  | 695.1  | 117.0  | 47.5   | 32.6   | 22.2   | 19.5   | 18.7   | 18.1   | 17.8   | 18.1   |
| 45°   | 1029.5 | 716.5  | 91.0   | 43.5   | 27.5   | 18.7   | 16.6   | 16.3   | 16.0   | 16.0   | 16.0   |
| 47.5° | 1140.2 | 760.4  | 75.7   | 38.9   | 22.9   | 16.0   | 14.5   | 14.2   | 13.8   | 14.2   | 14.2   |
| 50°   | 1327.8 | 841.1  | 67.8   | 34.5   | 19.0   | 13.7   | 12.2   | 12.2   | 12.2   | 12.2   | 12.5   |
| 52.5° | 1612.9 | 999.5  | 62.4   | 29.9   | 15.5   | 11.5   | 10.4   | 10.4   | 10.7   | 10.7   | 10.9   |
| 55°   | 1930.7 | 1209.7 | 57.6   | 25.3   | 13.0   | 9.6    | 8.5    | 8.9    | 9.1    | 9.3    | 9.3    |
| 57.5° | 2275.5 | 1442.8 | 53.5   | 20.8   | 11.1   | 7.7    | 7.1    | 7.5    | 7.7    | 8.3    | 8.3    |
| 60°   | 2691.5 | 1694.9 | 47.8   | 16.3   | 9.3    | 6.2    | 5.6    | 6.2    | 6.9    | 7.5    | 7.7    |
| 62.5° | 3148.3 | 1938.8 | 40.3   | 12.8   | 7.7    | 4.9    | 4.5    | 5.6    | 6.6    | 7.1    | 7.5    |
| 65°   | 3460.5 | 2015.3 | 30.9   | 10.4   | 5.8    | 3.5    | 3.8    | 5.1    | 6.4    | 7.1    | 7.1    |
| 67°   | 3334.1 | 1827.2 | 25.3   | 8.9    | 4.9    | 2.6    | 3.5    | 5.1    | 6.4    | 6.9    | 7.1    |
| 67.5° | 3246.2 | 1753.6 | 24.3   | 8.5    | 4.5    | 2.6    | 3.5    | 5.1    | 6.4    | 7.1    | 7.1    |
| 70°   | 2641.3 | 1317.4 | 20.3   | 6.4    | 3.8    | 2.3    | 3.0    | 4.9    | 6.2    | 6.9    | 6.9    |
| 72.5° | 1835.2 | 812.2  | 18.1   | 4.5    | 3.2    | 2.2    | 2.6    | 4.5    | 5.8    | 6.6    | 6.9    |
| 75°   | 872.6  | 294.0  | 15.5   | 3.5    | 3.0    | 1.8    | 2.3    | 4.5    | 5.8    | 6.6    | 6.6    |
| 77.5° | 178.0  | 68.4   | 12.5   | 3.0    | 2.3    | 1.8    | 2.2    | 4.2    | 5.6    | 6.4    | 6.4    |
| 80°   | 58.4   | 26.4   | 9.3    | 2.6    | 2.3    | 1.8    | 2.2    | 4.0    | 5.6    | 6.2    | 6.4    |
| 82.5° | 42.2   | 13.4   | 6.2    | 2.6    | 2.3    | 1.8    | 1.8    | 4.0    | 5.3    | 6.2    | 6.2    |
| 85°   | 32.2   | 9.3    | 4.0    | 2.6    | 2.3    | 1.8    | 1.8    | 3.8    | 5.1    | 5.8    | 5.8    |
| 87.5° | 21.3   | 3.8    | 3.2    | 2.6    | 2.3    | 1.8    | 1.8    | 3.8    | 4.9    | 5.6    | 5.8    |
| 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)