

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: P321846

Luminaire Tested: **GAN-SA2C-727-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8609 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 113  
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



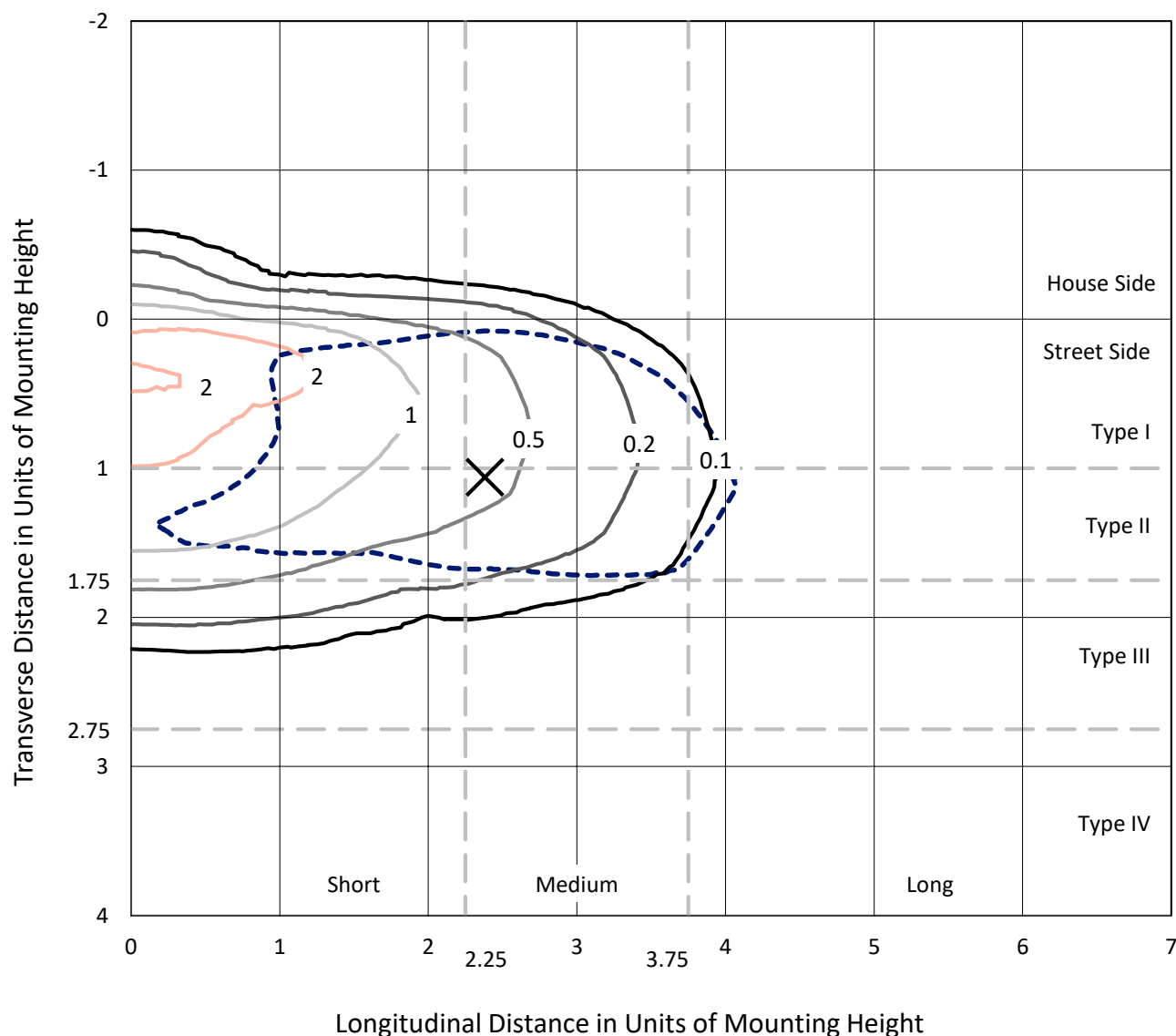
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

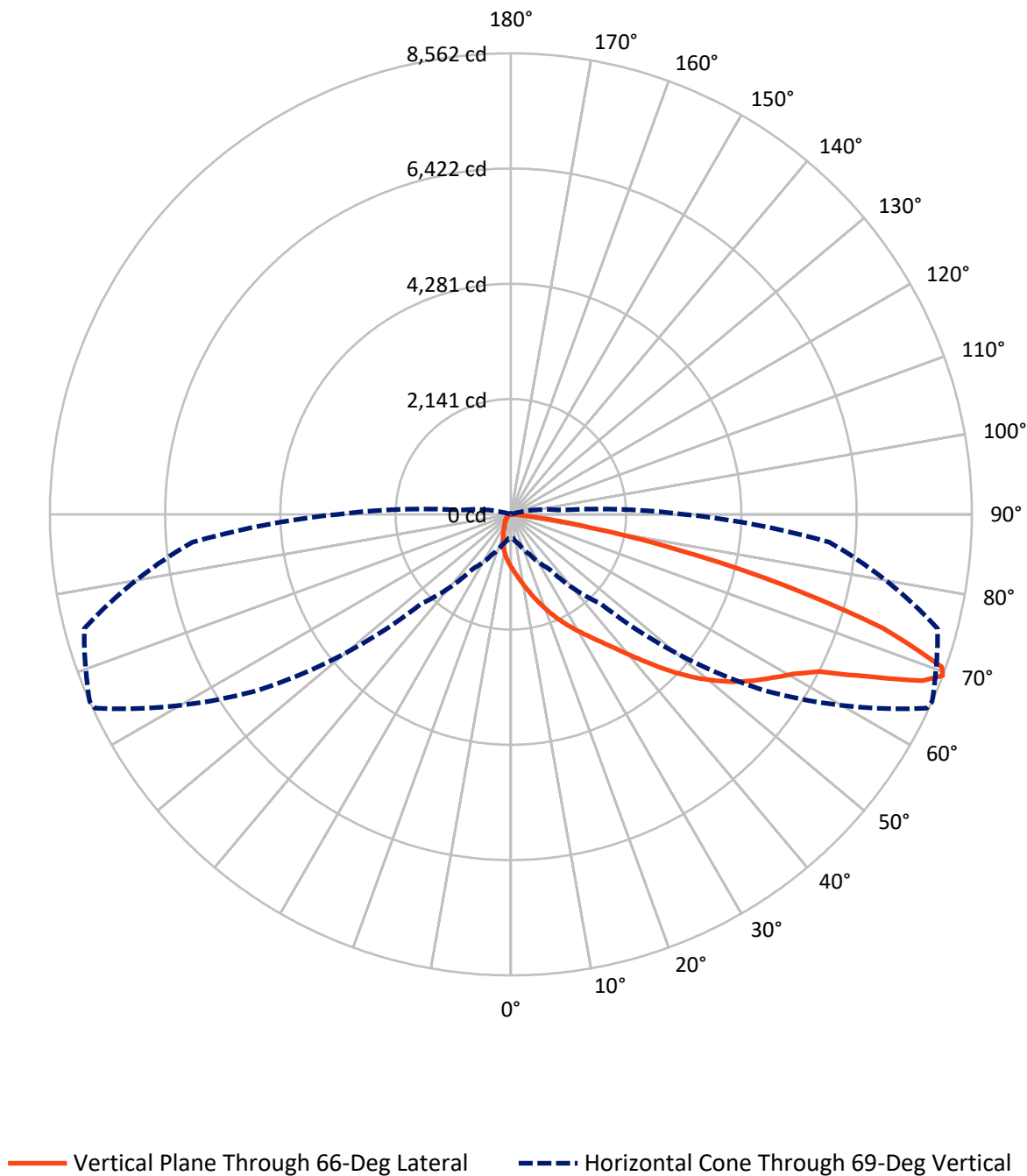
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 516.4    | 0.0    | 516.4  |
|                    | % Fixture | 6.0      | 0.0    | 6.0    |
| <b>Street Side</b> | Lumens    | 8092.6   | 0.0    | 8092.6 |
|                    | % Fixture | 94.0     | 0.0    | 94.0   |
| <b>Total</b>       | Lumens    | 8609.0   | 0.0    | 8609.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.7   | 1.1       |
| 10°-20°   | 281.9  | 3.3       |
| 20°-30°   | 490.8  | 5.7       |
| 30°-40°   | 861.1  | 10.0      |
| 40°-50°   | 1441.4 | 16.7      |
| 50°-60°   | 2118.7 | 24.6      |
| 60°-70°   | 2175.4 | 25.3      |
| 70°-80°   | 1073.9 | 12.5      |
| 80°-90°   | 71.0   | 0.8       |
| 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°    | 8609.0 | 100.0     |
| 0°-180°   | 8609.0 | 100.0     |

**Coefficient of Utilization**



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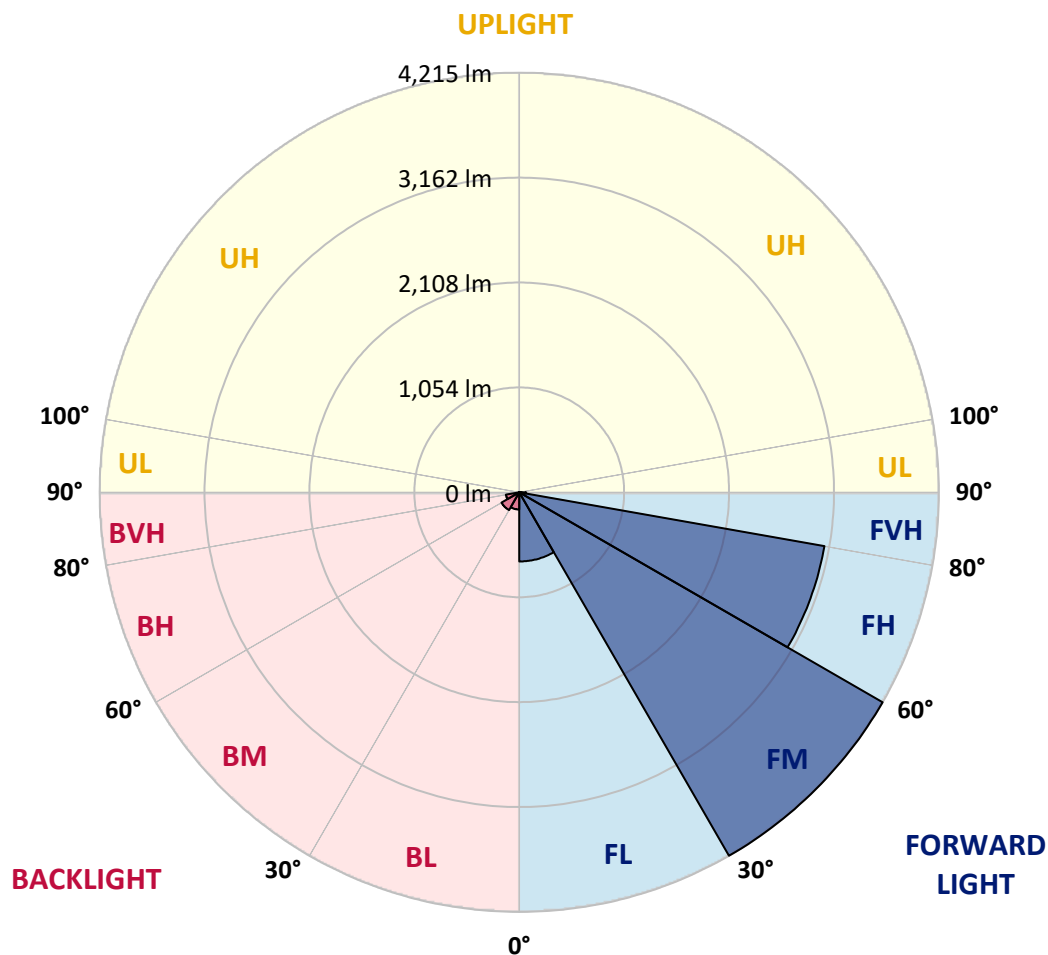
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 694.7  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 4215.4 | 49.0      |                         |      |         |
| FH   | (60°-80°)   | 3113.2 | 36.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 69.3   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 172.7  | 2.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 205.9  | 2.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 136.1  | 1.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.7    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 979.7  | 979.7  | 979.7  | 979.7  | 979.7  | 979.7  | 979.7  | 979.7  | 979.7  | 979.7  | 979.7  |
| 2.5°  | 1153.1 | 1148.2 | 1146.2 | 1137.2 | 1121.6 | 1109.8 | 1086.9 | 1060.3 | 1055.4 | 1029.6 | 998.1  |
| 5°    | 1302.8 | 1298.7 | 1295.8 | 1283.1 | 1267.2 | 1237.3 | 1195.6 | 1146.2 | 1136.8 | 1087.7 | 1024.7 |
| 7.5°  | 1407.0 | 1414.4 | 1414.4 | 1406.2 | 1386.2 | 1363.7 | 1312.6 | 1245.1 | 1233.3 | 1158.0 | 1060.3 |
| 10°   | 1468.0 | 1477.0 | 1483.9 | 1490.9 | 1488.0 | 1479.0 | 1430.8 | 1354.7 | 1340.4 | 1240.6 | 1101.6 |
| 12.5° | 1473.7 | 1482.7 | 1502.3 | 1531.3 | 1559.6 | 1580.0 | 1549.7 | 1476.1 | 1459.8 | 1336.3 | 1150.7 |
| 15°   | 1441.8 | 1451.2 | 1481.5 | 1537.9 | 1606.2 | 1665.9 | 1675.7 | 1610.7 | 1593.9 | 1450.4 | 1212.0 |
| 17.5° | 1386.2 | 1392.3 | 1435.7 | 1513.8 | 1620.9 | 1730.5 | 1789.8 | 1755.0 | 1739.5 | 1580.8 | 1280.3 |
| 20°   | 1344.9 | 1349.4 | 1387.4 | 1471.2 | 1611.9 | 1771.0 | 1897.7 | 1908.4 | 1892.0 | 1720.7 | 1354.3 |
| 22.5° | 1415.6 | 1423.8 | 1425.0 | 1464.7 | 1587.4 | 1791.0 | 1992.6 | 2059.2 | 2047.0 | 1869.1 | 1427.1 |
| 25°   | 1609.0 | 1618.4 | 1587.4 | 1562.8 | 1608.2 | 1800.0 | 2074.0 | 2213.8 | 2204.0 | 2029.0 | 1500.3 |
| 27.5° | 1864.6 | 1874.4 | 1834.3 | 1761.1 | 1717.4 | 1833.9 | 2146.3 | 2370.8 | 2370.4 | 2198.3 | 1579.2 |
| 30°   | 2115.7 | 2125.5 | 2084.6 | 2011.4 | 1910.8 | 1930.0 | 2208.9 | 2535.2 | 2537.7 | 2372.9 | 1663.0 |
| 32.5° | 2379.0 | 2391.3 | 2349.1 | 2255.1 | 2150.0 | 2096.0 | 2296.8 | 2700.4 | 2714.3 | 2575.3 | 1757.5 |
| 35°   | 2678.3 | 2680.0 | 2620.7 | 2522.1 | 2401.1 | 2318.1 | 2437.9 | 2885.6 | 2918.8 | 2825.9 | 1877.3 |
| 37.5° | 2971.9 | 2983.8 | 2935.1 | 2779.7 | 2668.5 | 2574.5 | 2647.6 | 3117.1 | 3164.1 | 3132.2 | 2033.9 |
| 40°   | 3189.4 | 3214.4 | 3207.4 | 3039.8 | 2934.3 | 2867.2 | 2908.1 | 3392.3 | 3452.0 | 3488.8 | 2231.4 |
| 42.5° | 3326.0 | 3344.8 | 3376.7 | 3275.7 | 3180.0 | 3191.1 | 3215.6 | 3712.8 | 3786.4 | 3895.2 | 2458.3 |
| 45°   | 3482.6 | 3491.6 | 3518.2 | 3473.6 | 3409.0 | 3520.2 | 3541.9 | 4073.9 | 4151.2 | 4332.3 | 2710.2 |
| 47.5° | 3674.0 | 3695.3 | 3702.6 | 3661.7 | 3632.3 | 3811.4 | 3856.4 | 4402.3 | 4510.6 | 4800.5 | 2976.8 |
| 50°   | 3917.7 | 3923.4 | 3936.1 | 3909.5 | 3880.1 | 4061.6 | 4138.5 | 4747.0 | 4845.5 | 5270.4 | 3239.7 |
| 52.5° | 4156.1 | 4176.5 | 4220.7 | 4203.9 | 4192.1 | 4274.7 | 4390.0 | 5057.7 | 5167.7 | 5662.1 | 3502.3 |
| 55°   | 4224.8 | 4242.4 | 4394.9 | 4499.2 | 4595.7 | 4537.2 | 4630.4 | 5336.2 | 5455.2 | 6012.1 | 3755.0 |
| 57.5° | 3950.4 | 3986.0 | 4250.1 | 4521.7 | 4922.0 | 4945.3 | 4960.8 | 5622.0 | 5728.7 | 6280.3 | 4017.9 |
| 60°   | 3256.9 | 3263.9 | 3697.3 | 4163.0 | 4868.0 | 5301.4 | 5443.3 | 5929.1 | 6018.6 | 6530.2 | 4332.7 |
| 62.5° | 2071.5 | 2142.2 | 2617.8 | 3275.3 | 4297.2 | 5249.9 | 6026.8 | 6393.6 | 6426.3 | 6829.9 | 4784.2 |
| 65°   | 986.7  | 1032.5 | 1375.1 | 2023.7 | 3112.6 | 4590.3 | 6429.6 | 7233.9 | 7248.6 | 7424.0 | 5387.3 |
| 67.5° | 546.3  | 568.4  | 731.5  | 1089.3 | 1819.6 | 3246.3 | 6266.8 | 8229.2 | 8243.1 | 8030.9 | 5916.4 |
| 69°   | 427.3  | 446.1  | 574.5  | 821.1  | 1233.7 | 2333.2 | 5671.1 | 8520.7 | 8562.0 | 8204.6 | 5935.2 |
| 70°   | 362.7  | 381.1  | 494.8  | 693.5  | 992.0  | 1802.9 | 5047.9 | 8448.3 | 8492.1 | 8188.3 | 5795.0 |
| 72.5° | 222.0  | 232.7  | 329.6  | 488.2  | 664.9  | 906.9  | 3113.0 | 7144.8 | 7218.8 | 7511.1 | 4980.4 |
| 75°   | 149.7  | 155.4  | 206.1  | 336.9  | 475.6  | 467.0  | 1617.2 | 5036.1 | 5196.3 | 5842.8 | 3678.5 |
| 77.5° | 107.1  | 112.4  | 138.2  | 217.9  | 333.3  | 308.3  | 732.3  | 3129.7 | 3164.1 | 3504.3 | 2006.1 |
| 80°   | 60.9   | 65.8   | 97.7   | 129.6  | 226.1  | 205.7  | 291.1  | 1494.9 | 1512.1 | 1502.7 | 669.8  |
| 82.5° | 31.9   | 36.0   | 53.6   | 85.5   | 145.2  | 134.5  | 121.0  | 500.5  | 503.0  | 418.3  | 146.8  |
| 85°   | 6.1    | 7.4    | 26.6   | 58.5   | 74.8   | 58.5   | 49.5   | 117.4  | 119.8  | 105.9  | 36.4   |
| 87.5° | 0.0    | 0.4    | 10.6   | 13.1   | 14.7   | 15.1   | 15.9   | 22.9   | 24.5   | 33.1   | 9.8    |
| 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°    | 979.7  | 979.7 | 979.7 | 979.7 | 979.7 | 979.7 | 979.7 | 979.7 | 979.7 | 979.7 | 979.7 |
| 2.5°  | 984.2  | 969.5 | 941.3 | 908.6 | 883.2 | 858.3 | 838.7 | 818.2 | 810.9 | 807.2 | 806.8 |
| 5°    | 994.0  | 963.0 | 903.3 | 841.9 | 791.6 | 744.2 | 710.3 | 678.0 | 662.8 | 655.9 | 653.0 |
| 7.5°  | 1010.4 | 960.5 | 864.4 | 770.8 | 698.4 | 639.1 | 592.1 | 556.9 | 539.3 | 532.0 | 529.1 |
| 10°   | 1029.6 | 957.2 | 819.0 | 695.5 | 603.1 | 541.8 | 495.2 | 460.4 | 441.2 | 433.0 | 428.9 |
| 12.5° | 1052.1 | 951.5 | 766.7 | 619.5 | 521.8 | 460.4 | 404.0 | 361.1 | 339.0 | 329.6 | 325.1 |
| 15°   | 1079.9 | 945.8 | 711.9 | 547.9 | 450.2 | 375.4 | 313.6 | 284.6 | 280.1 | 278.5 | 278.9 |
| 17.5° | 1107.3 | 936.8 | 652.2 | 477.2 | 375.0 | 293.2 | 261.7 | 260.1 | 260.9 | 260.9 | 260.9 |
| 20°   | 1131.8 | 916.4 | 587.2 | 416.7 | 303.4 | 247.4 | 240.8 | 238.0 | 235.9 | 234.3 | 232.3 |
| 22.5° | 1151.1 | 889.0 | 524.6 | 356.6 | 247.8 | 226.5 | 216.3 | 207.3 | 200.0 | 195.0 | 192.6 |
| 25°   | 1164.1 | 852.6 | 467.4 | 298.9 | 222.9 | 206.1 | 187.7 | 172.6 | 161.1 | 154.2 | 151.3 |
| 27.5° | 1174.0 | 813.3 | 416.3 | 250.2 | 205.7 | 182.4 | 158.2 | 140.3 | 128.4 | 122.3 | 119.8 |
| 30°   | 1180.9 | 768.7 | 371.3 | 220.0 | 186.5 | 157.4 | 131.7 | 114.1 | 105.5 | 102.2 | 100.6 |
| 32.5° | 1187.5 | 719.3 | 328.8 | 205.7 | 168.5 | 134.5 | 110.4 | 96.9  | 91.6  | 87.5  | 86.3  |
| 35°   | 1203.8 | 673.5 | 288.3 | 190.5 | 150.1 | 114.9 | 94.9  | 85.1  | 79.7  | 77.3  | 76.5  |
| 37.5° | 1242.7 | 639.5 | 249.4 | 175.0 | 131.7 | 99.4  | 83.0  | 76.1  | 71.1  | 68.7  | 67.9  |
| 40°   | 1305.2 | 622.4 | 216.7 | 158.2 | 113.7 | 87.5  | 75.2  | 68.7  | 63.4  | 59.7  | 58.9  |
| 42.5° | 1397.2 | 624.8 | 193.8 | 141.5 | 99.4  | 78.1  | 67.9  | 60.1  | 54.4  | 51.1  | 50.3  |
| 45°   | 1508.9 | 642.8 | 177.9 | 125.1 | 87.5  | 70.7  | 59.7  | 51.5  | 46.2  | 43.3  | 42.5  |
| 47.5° | 1629.9 | 671.8 | 164.8 | 110.4 | 78.1  | 63.8  | 51.5  | 42.9  | 38.4  | 36.0  | 35.6  |
| 50°   | 1757.5 | 700.0 | 151.3 | 96.1  | 69.9  | 56.8  | 43.3  | 35.6  | 31.9  | 29.8  | 29.0  |
| 52.5° | 1886.7 | 732.8 | 139.0 | 83.0  | 63.0  | 48.7  | 36.0  | 29.0  | 26.2  | 24.5  | 23.7  |
| 55°   | 2025.7 | 757.3 | 127.2 | 72.8  | 56.0  | 41.3  | 29.8  | 24.1  | 21.7  | 19.6  | 19.2  |
| 57.5° | 2189.3 | 795.3 | 114.9 | 63.0  | 47.8  | 34.3  | 24.5  | 19.2  | 17.2  | 15.1  | 14.7  |
| 60°   | 2410.1 | 839.9 | 101.8 | 55.6  | 39.3  | 28.2  | 20.0  | 15.5  | 13.1  | 11.4  | 11.0  |
| 62.5° | 2701.2 | 889.4 | 85.5  | 48.7  | 31.9  | 22.9  | 15.9  | 12.3  | 9.4   | 7.4   | 7.4   |
| 65°   | 3070.5 | 969.9 | 69.9  | 40.9  | 26.2  | 18.8  | 12.3  | 9.0   | 5.3   | 3.3   | 3.3   |
| 67.5° | 3285.9 | 983.8 | 56.4  | 33.5  | 21.3  | 15.9  | 10.2  | 6.1   | 1.6   | 0.4   | 0.0   |
| 69°   | 3216.8 | 903.3 | 47.8  | 28.6  | 18.4  | 15.1  | 9.4   | 4.5   | 0.8   | 0.0   | 0.0   |
| 70°   | 3086.8 | 826.0 | 42.1  | 25.4  | 16.8  | 14.3  | 9.0   | 3.3   | 0.8   | 0.0   | 0.0   |
| 72.5° | 2550.7 | 588.0 | 31.9  | 18.8  | 12.3  | 12.7  | 8.2   | 2.0   | 0.8   | 0.0   | 0.0   |
| 75°   | 1858.1 | 357.4 | 22.9  | 13.1  | 7.8   | 9.4   | 5.7   | 0.8   | 0.4   | 0.0   | 0.0   |
| 77.5° | 1033.7 | 168.5 | 14.3  | 7.4   | 4.9   | 5.7   | 2.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 335.7  | 45.8  | 6.5   | 4.1   | 2.9   | 3.3   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 62.2   | 13.1  | 3.7   | 2.0   | 0.8   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 13.5   | 5.3   | 2.0   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 4.5    | 1.6   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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)