

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: P322305

Luminaire Tested: **GAN-SA1A-760-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-760-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3555 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

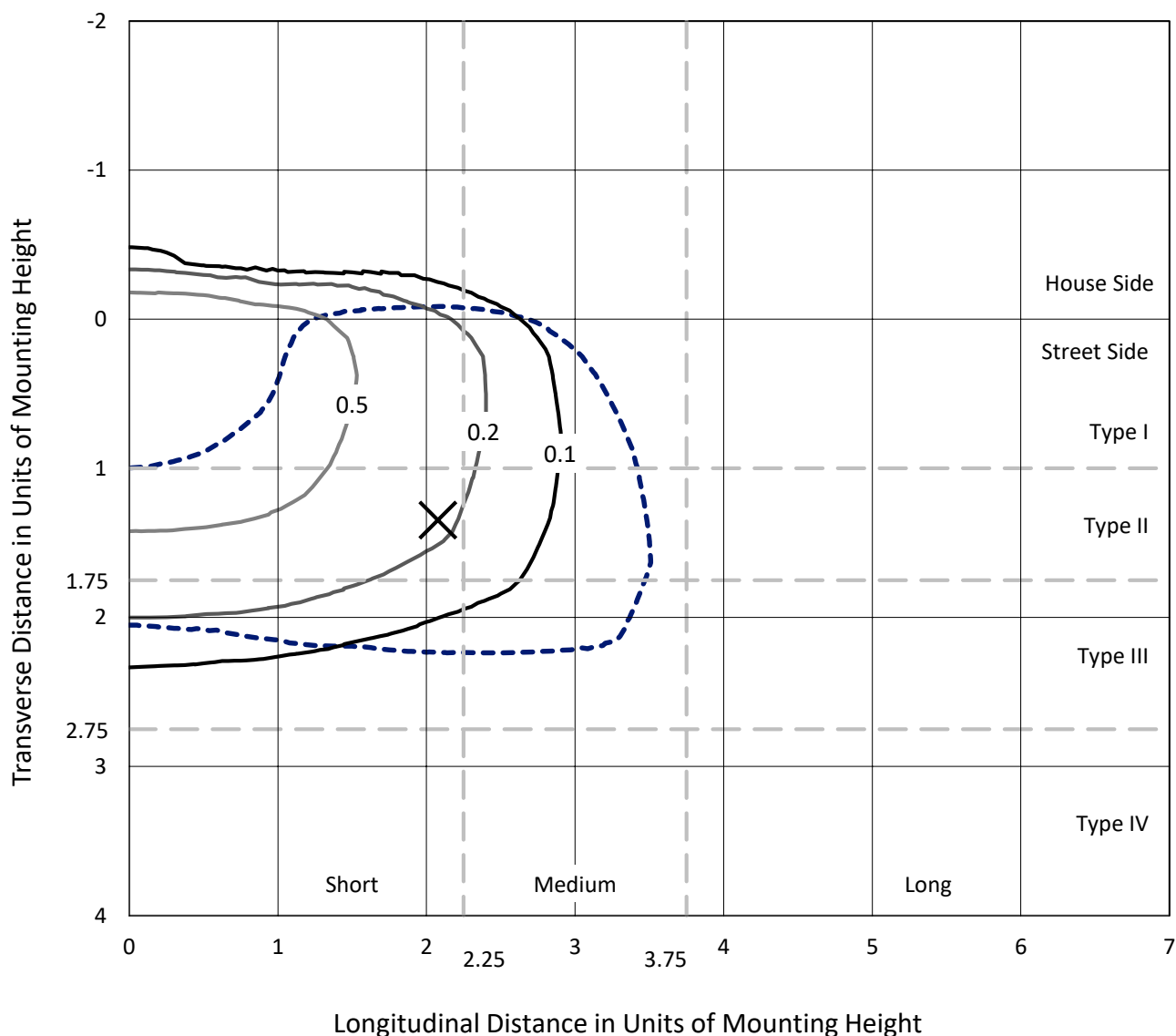
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

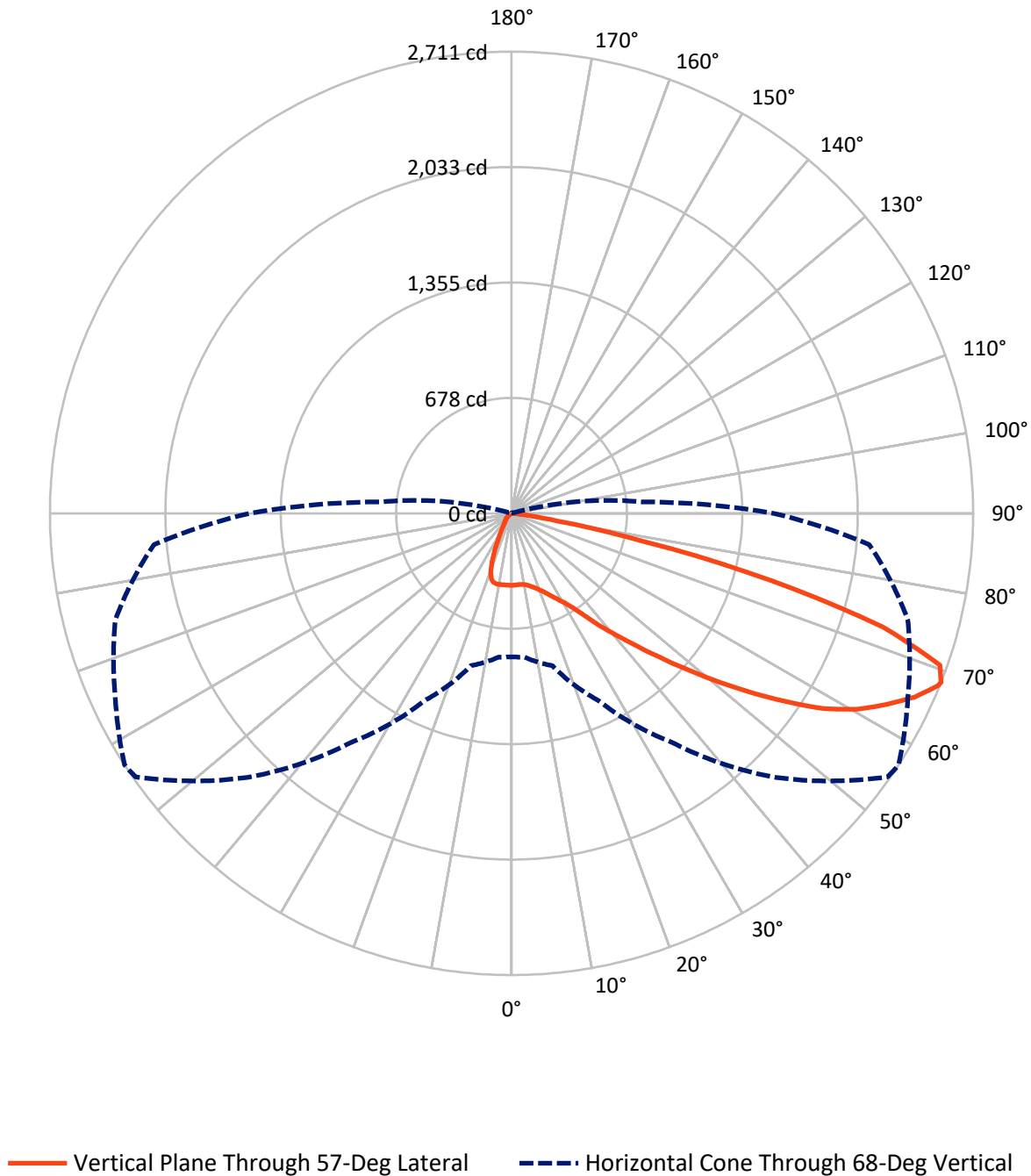
× Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - 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    | 389.8    | 0.0    | 389.8  |
|                    | % Fixture | 11.0     | 0.0    | 11.0   |
| <b>Street Side</b> | Lumens    | 3165.2   | 0.0    | 3165.2 |
|                    | % Fixture | 89.0     | 0.0    | 89.0   |
| <b>Total</b>       | Lumens    | 3555.0   | 0.0    | 3555.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.5   | 1.1       |
| 10°-20°   | 109.5  | 3.1       |
| 20°-30°   | 189.0  | 5.3       |
| 30°-40°   | 326.2  | 9.2       |
| 40°-50°   | 557.9  | 15.7      |
| 50°-60°   | 892.6  | 25.1      |
| 60°-70°   | 1031.3 | 29.0      |
| 70°-80°   | 394.1  | 11.1      |
| 80°-90°   | 14.8   | 0.4       |
| 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°    | 3555.0 | 100.0     |
| 0°-180°   | 3555.0 | 100.0     |

**Coefficient of Utilization**



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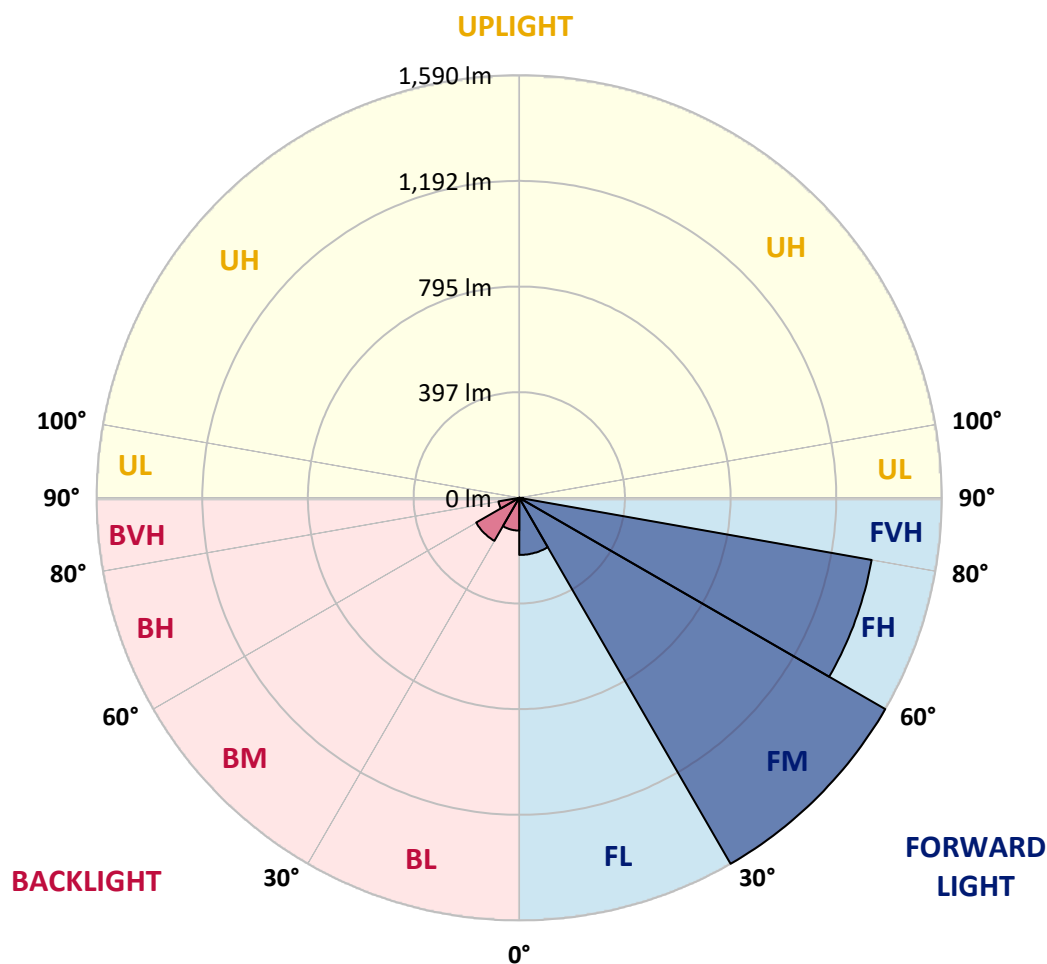
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 214.9  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 1589.8 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 1346.0 | 37.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 14.5   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 123.2  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 187.0  | 5.3       | B0/220                  |      |         |
| BH   | (60°-80°)   | 79.4   | 2.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.3    | 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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  |
| 2.5°  | 412.5  | 414.4  | 415.7  | 416.5  | 417.6  | 419.7  | 420.4  | 421.4  | 421.9  | 421.9  | 423.1  |
| 5°    | 396.2  | 398.2  | 401.1  | 403.4  | 408.1  | 414.2  | 418.6  | 420.2  | 423.3  | 426.0  | 427.5  |
| 7.5°  | 381.1  | 383.4  | 386.8  | 392.3  | 400.4  | 410.2  | 419.2  | 421.6  | 427.5  | 433.2  | 436.0  |
| 10°   | 371.3  | 373.2  | 377.5  | 385.4  | 396.0  | 409.7  | 422.4  | 425.3  | 435.4  | 445.0  | 450.3  |
| 12.5° | 368.0  | 369.6  | 374.2  | 383.1  | 396.2  | 412.2  | 429.8  | 434.0  | 448.8  | 462.8  | 470.3  |
| 15°   | 372.8  | 373.2  | 378.1  | 386.5  | 399.4  | 418.4  | 442.1  | 447.1  | 465.8  | 484.0  | 493.4  |
| 17.5° | 391.7  | 390.2  | 392.7  | 396.4  | 406.6  | 426.6  | 455.0  | 462.6  | 487.5  | 508.8  | 517.7  |
| 20°   | 438.7  | 438.7  | 433.0  | 422.9  | 423.1  | 439.4  | 472.5  | 481.1  | 511.5  | 536.2  | 544.3  |
| 22.5° | 519.3  | 517.7  | 506.3  | 481.6  | 458.9  | 461.4  | 493.9  | 505.0  | 540.4  | 566.8  | 569.5  |
| 25°   | 616.1  | 614.2  | 596.6  | 561.8  | 522.4  | 497.1  | 522.8  | 535.6  | 574.9  | 598.3  | 592.7  |
| 27.5° | 718.6  | 717.1  | 699.6  | 656.4  | 600.4  | 553.9  | 557.2  | 569.3  | 610.0  | 633.1  | 615.4  |
| 30°   | 818.0  | 818.5  | 801.2  | 756.8  | 693.4  | 626.3  | 600.9  | 608.0  | 644.1  | 667.5  | 642.3  |
| 32.5° | 912.4  | 913.1  | 898.1  | 848.6  | 789.4  | 710.5  | 661.5  | 659.6  | 683.8  | 706.8  | 677.9  |
| 35°   | 996.6  | 998.3  | 988.1  | 949.6  | 886.9  | 804.3  | 740.0  | 735.6  | 740.1  | 766.2  | 732.6  |
| 37.5° | 1077.8 | 1078.8 | 1071.1 | 1038.7 | 986.2  | 907.4  | 839.1  | 832.9  | 823.2  | 843.2  | 804.7  |
| 40°   | 1166.8 | 1164.2 | 1155.3 | 1125.9 | 1080.9 | 1021.2 | 945.7  | 935.0  | 918.0  | 935.8  | 899.5  |
| 42.5° | 1249.5 | 1246.6 | 1248.1 | 1214.8 | 1176.8 | 1138.2 | 1069.9 | 1051.4 | 1041.5 | 1062.0 | 1015.8 |
| 45°   | 1352.8 | 1351.3 | 1356.4 | 1327.5 | 1296.7 | 1268.6 | 1212.3 | 1192.1 | 1187.8 | 1211.8 | 1156.5 |
| 47.5° | 1454.9 | 1458.6 | 1474.2 | 1461.9 | 1449.5 | 1424.8 | 1363.1 | 1354.0 | 1356.7 | 1385.8 | 1304.9 |
| 50°   | 1539.9 | 1544.3 | 1587.2 | 1601.3 | 1619.3 | 1604.8 | 1543.0 | 1537.4 | 1548.0 | 1574.2 | 1464.6 |
| 52.5° | 1601.5 | 1610.4 | 1663.7 | 1728.7 | 1794.3 | 1804.0 | 1742.3 | 1737.3 | 1751.6 | 1755.6 | 1588.0 |
| 55°   | 1644.2 | 1652.1 | 1712.4 | 1831.4 | 1964.9 | 2006.9 | 1968.6 | 1949.1 | 1946.4 | 1906.6 | 1717.8 |
| 57.5° | 1651.7 | 1650.9 | 1737.6 | 1897.8 | 2098.7 | 2207.1 | 2182.9 | 2163.7 | 2108.6 | 2046.1 | 1866.5 |
| 60°   | 1609.0 | 1613.9 | 1714.6 | 1920.8 | 2182.7 | 2358.6 | 2360.4 | 2335.5 | 2249.6 | 2181.7 | 2010.8 |
| 62.5° | 1477.6 | 1497.4 | 1599.1 | 1860.5 | 2181.7 | 2419.6 | 2490.5 | 2471.5 | 2368.8 | 2292.8 | 2157.0 |
| 65°   | 1264.4 | 1271.5 | 1368.5 | 1653.7 | 2034.3 | 2394.0 | 2607.7 | 2600.6 | 2476.2 | 2400.8 | 2232.2 |
| 67.5° | 923.4  | 908.1  | 1009.9 | 1302.2 | 1722.3 | 2245.1 | 2691.7 | 2700.6 | 2559.1 | 2422.9 | 2152.1 |
| 68°   | 842.7  | 847.2  | 926.6  | 1215.3 | 1640.6 | 2192.5 | 2697.3 | 2710.9 | 2567.3 | 2408.5 | 2108.4 |
| 70°   | 502.3  | 511.0  | 581.8  | 836.8  | 1248.1 | 1894.8 | 2637.4 | 2668.5 | 2518.3 | 2259.4 | 1823.7 |
| 72.5° | 128.3  | 138.7  | 205.6  | 374.5  | 712.9  | 1335.0 | 2226.4 | 2279.1 | 2186.4 | 1832.9 | 1231.1 |
| 75°   | 52.8   | 55.5   | 73.5   | 123.4  | 265.6  | 601.5  | 1467.5 | 1580.1 | 1515.7 | 1097.3 | 556.4  |
| 77.5° | 36.5   | 38.3   | 47.2   | 68.4   | 115.0  | 203.9  | 719.5  | 800.8  | 721.5  | 374.5  | 121.4  |
| 80°   | 26.2   | 27.7   | 33.8   | 45.6   | 66.1   | 72.8   | 234.5  | 271.1  | 215.3  | 82.2   | 30.1   |
| 82.5° | 15.6   | 16.8   | 25.2   | 32.4   | 40.2   | 34.8   | 58.3   | 66.2   | 62.4   | 40.8   | 13.4   |
| 85°   | 7.7    | 9.1    | 17.0   | 23.2   | 21.7   | 14.6   | 17.8   | 19.8   | 24.5   | 24.9   | 7.2    |
| 87.5° | 0.5    | 1.0    | 9.9    | 14.0   | 6.1    | 3.4    | 5.2    | 6.4    | 8.7    | 12.3   | 3.0    |
| 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°    | 422.4  | 422.4  | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 |
| 2.5°  | 423.6  | 423.8  | 422.6 | 422.1 | 422.4 | 420.4 | 419.6 | 419.9 | 419.9 | 420.4 | 419.6 |
| 5°    | 427.8  | 427.8  | 425.8 | 423.1 | 421.6 | 417.7 | 415.2 | 414.5 | 414.0 | 413.7 | 413.0 |
| 7.5°  | 436.9  | 435.9  | 432.3 | 426.5 | 421.4 | 413.0 | 406.6 | 403.3 | 401.6 | 400.9 | 400.4 |
| 10°   | 451.5  | 449.7  | 443.8 | 432.8 | 421.3 | 406.3 | 392.3 | 382.4 | 374.2 | 370.8 | 368.8 |
| 12.5° | 471.2  | 468.5  | 458.6 | 440.4 | 420.1 | 392.5 | 362.2 | 333.2 | 306.1 | 295.0 | 289.5 |
| 15°   | 493.9  | 490.0  | 474.4 | 446.8 | 413.2 | 361.4 | 295.7 | 244.7 | 207.3 | 193.1 | 187.1 |
| 17.5° | 516.9  | 511.9  | 488.2 | 450.8 | 392.5 | 297.0 | 207.4 | 156.7 | 131.6 | 124.9 | 122.5 |
| 20°   | 540.1  | 532.7  | 500.1 | 447.8 | 345.8 | 214.2 | 136.8 | 114.5 | 107.2 | 105.2 | 104.6 |
| 22.5° | 562.1  | 550.7  | 510.8 | 436.0 | 273.8 | 143.7 | 108.3 | 101.2 | 98.8  | 97.7  | 97.3  |
| 25°   | 581.3  | 565.3  | 520.3 | 399.7 | 193.8 | 108.6 | 97.5  | 95.1  | 92.1  | 89.9  | 90.1  |
| 27.5° | 599.3  | 579.9  | 526.0 | 339.9 | 129.3 | 92.8  | 90.3  | 87.1  | 81.5  | 78.3  | 78.3  |
| 30°   | 621.0  | 599.4  | 530.2 | 261.6 | 95.1  | 82.0  | 80.0  | 75.1  | 67.6  | 63.4  | 63.4  |
| 32.5° | 653.6  | 629.0  | 527.5 | 183.6 | 78.8  | 72.1  | 67.4  | 60.7  | 52.4  | 48.4  | 48.2  |
| 35°   | 703.5  | 674.7  | 508.3 | 120.4 | 69.6  | 62.7  | 55.1  | 46.9  | 39.7  | 36.3  | 36.1  |
| 37.5° | 770.7  | 735.9  | 465.3 | 86.1  | 62.4  | 54.0  | 44.9  | 35.8  | 30.4  | 28.2  | 28.1  |
| 40°   | 858.0  | 807.0  | 403.8 | 69.8  | 55.6  | 45.6  | 34.6  | 27.7  | 24.0  | 22.4  | 22.5  |
| 42.5° | 962.7  | 883.2  | 330.0 | 60.2  | 49.1  | 37.5  | 27.1  | 21.9  | 19.5  | 18.3  | 18.0  |
| 45°   | 1079.0 | 958.3  | 252.6 | 53.6  | 42.5  | 30.3  | 21.2  | 17.3  | 15.5  | 14.8  | 14.8  |
| 47.5° | 1206.9 | 1031.4 | 184.9 | 47.9  | 35.5  | 23.4  | 17.0  | 14.1  | 12.6  | 12.1  | 11.9  |
| 50°   | 1323.1 | 1082.2 | 133.3 | 41.9  | 29.1  | 18.5  | 13.8  | 11.8  | 10.8  | 10.1  | 10.1  |
| 52.5° | 1419.9 | 1098.2 | 98.2  | 35.3  | 23.5  | 14.8  | 11.4  | 10.1  | 9.1   | 8.6   | 8.6   |
| 55°   | 1505.1 | 1091.6 | 73.0  | 29.1  | 19.0  | 12.1  | 9.7   | 8.6   | 7.7   | 7.2   | 7.2   |
| 57.5° | 1586.8 | 1070.4 | 54.5  | 23.7  | 15.3  | 9.7   | 8.2   | 7.2   | 6.4   | 6.1   | 6.1   |
| 60°   | 1653.6 | 1035.1 | 40.5  | 19.2  | 12.3  | 7.9   | 6.9   | 5.9   | 5.2   | 4.7   | 4.7   |
| 62.5° | 1707.7 | 996.1  | 29.8  | 15.8  | 9.7   | 6.2   | 5.4   | 4.9   | 3.9   | 3.4   | 3.4   |
| 65°   | 1708.0 | 931.4  | 22.4  | 13.1  | 7.6   | 4.9   | 4.0   | 3.9   | 2.5   | 2.0   | 1.8   |
| 67.5° | 1584.5 | 803.0  | 17.1  | 11.3  | 5.9   | 3.7   | 3.0   | 3.2   | 1.3   | 0.8   | 0.7   |
| 68°   | 1539.6 | 770.4  | 16.1  | 11.1  | 5.5   | 3.5   | 2.9   | 3.2   | 1.2   | 0.7   | 0.5   |
| 70°   | 1298.0 | 612.9  | 12.9  | 10.8  | 4.9   | 2.7   | 2.4   | 3.2   | 1.0   | 0.5   | 0.3   |
| 72.5° | 830.2  | 355.7  | 9.6   | 8.6   | 3.7   | 2.0   | 1.5   | 2.9   | 1.0   | 0.3   | 0.2   |
| 75°   | 353.3  | 110.3  | 6.6   | 6.1   | 2.2   | 1.5   | 1.0   | 1.8   | 0.7   | 0.2   | 0.0   |
| 77.5° | 74.5   | 24.9   | 3.9   | 3.7   | 1.5   | 1.0   | 0.7   | 0.5   | 0.2   | 0.0   | 0.0   |
| 80°   | 19.2   | 7.2    | 2.0   | 1.8   | 0.8   | 0.5   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 6.1    | 2.9    | 1.2   | 0.8   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.0    | 1.7    | 0.7   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.7    | 0.5    | 0.2   | 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)