

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: P459599

Luminaire Tested: **GAN-SA1A-AMB-U-SL4**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-AMB-U-SL4  
Description: GALLEON ROADWAY AND AREA LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1179 lumens  
Efficiency: N/A  
Efficacy: 52.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 22.6  
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

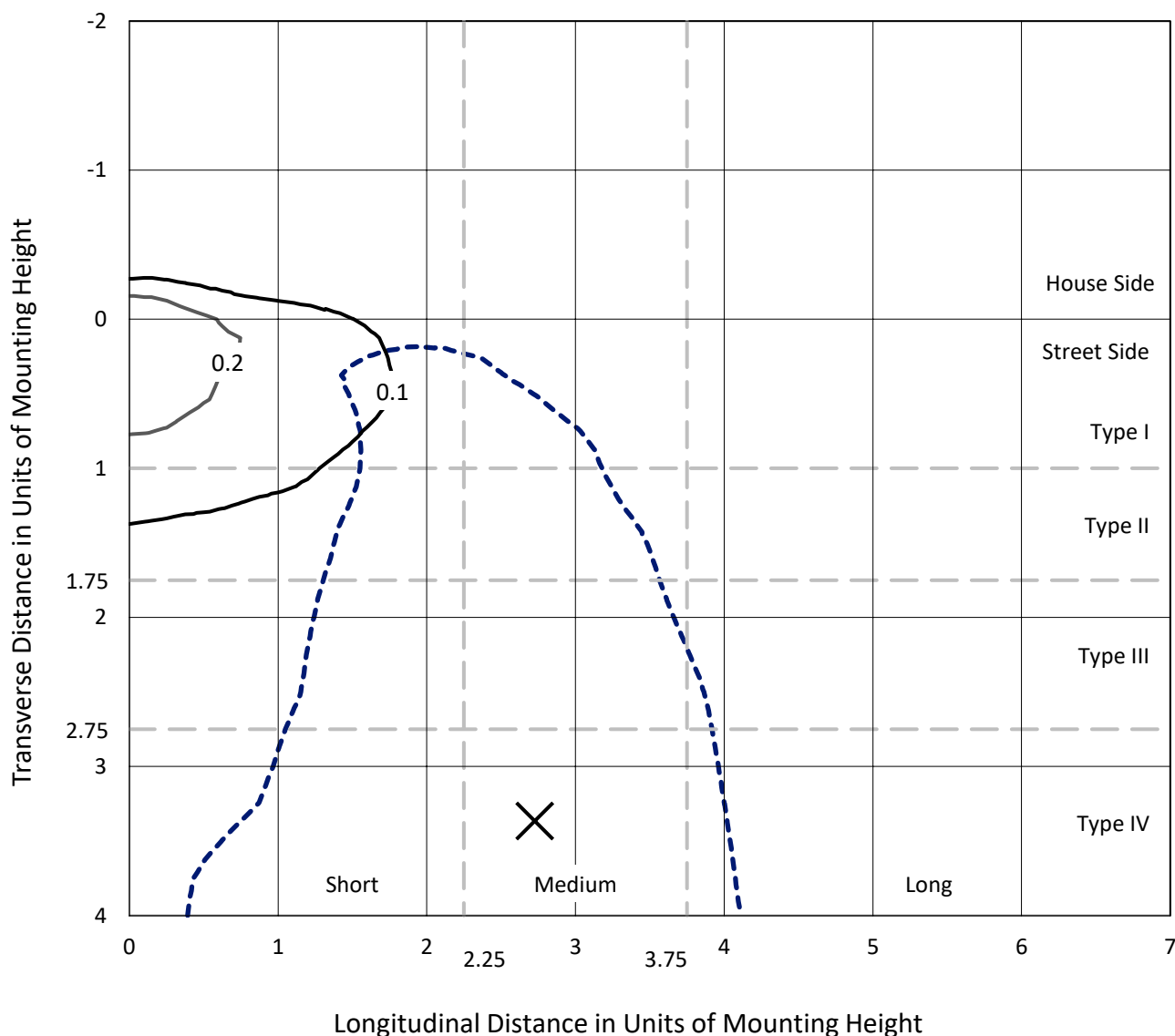


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

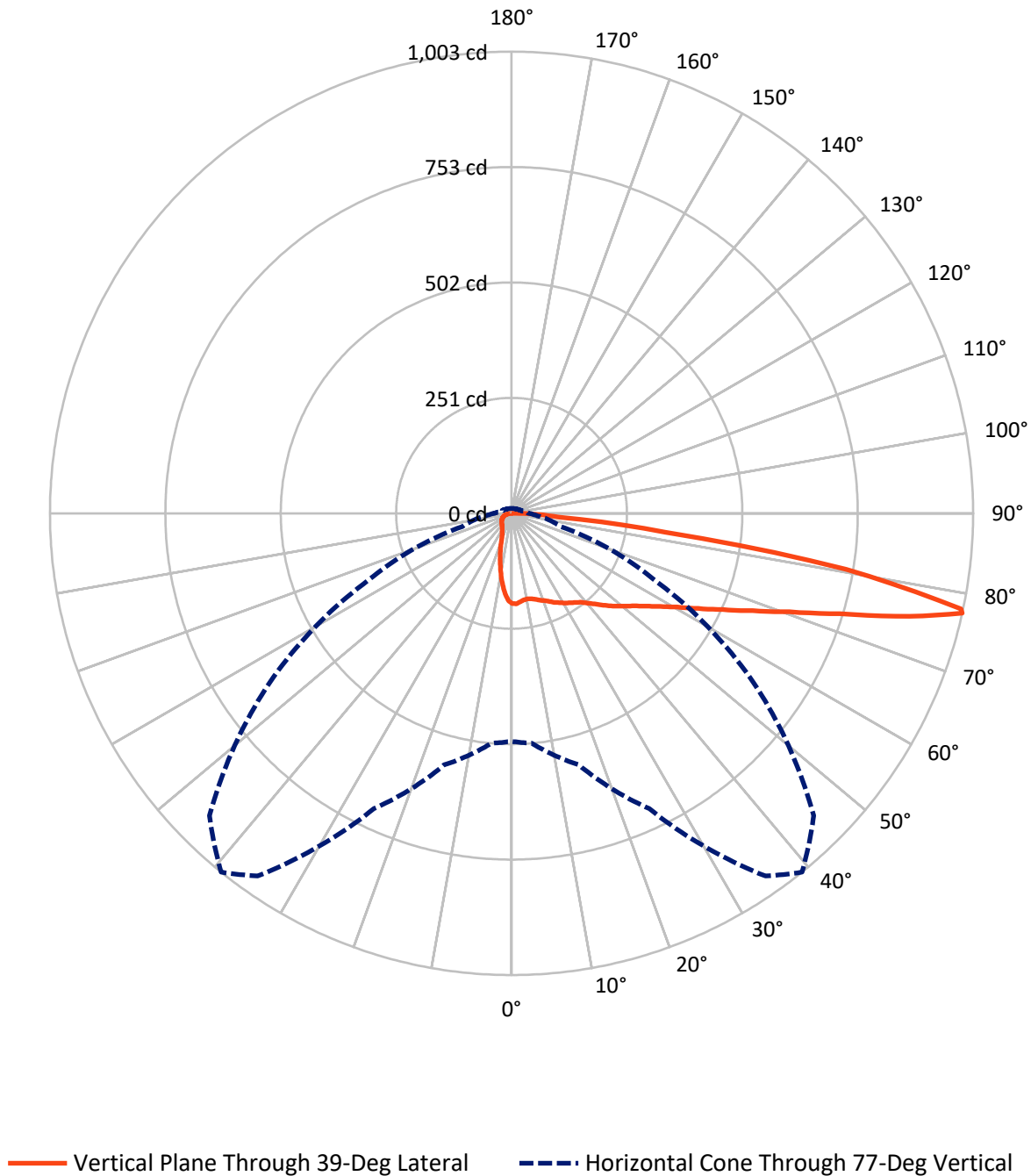
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc  
 Type IV - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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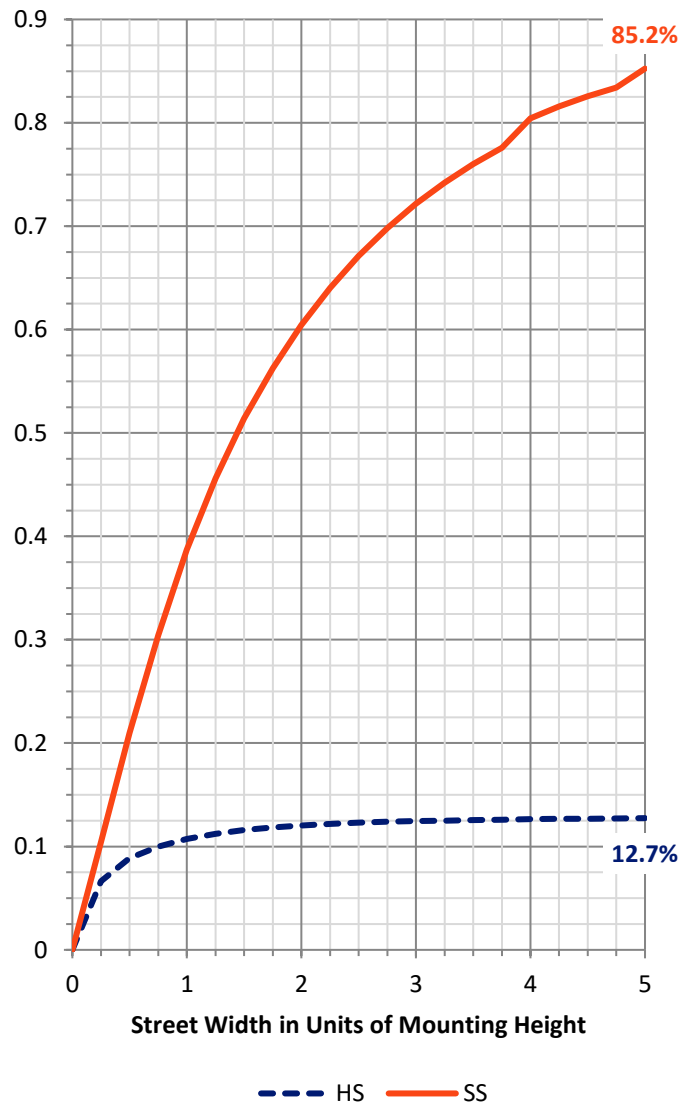
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 152.1    | 0.0    | 152.1  |
|                    | % Fixture | 12.9     | 0.0    | 12.9   |
| <b>Street Side</b> | Lumens    | 1026.9   | 0.0    | 1026.9 |
|                    | % Fixture | 87.1     | 0.0    | 87.1   |
| <b>Total</b>       | Lumens    | 1179.0   | 0.0    | 1179.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.1   | 1.5       |
| 10°-20°   | 42.9   | 3.6       |
| 20°-30°   | 65.6   | 5.6       |
| 30°-40°   | 94.3   | 8.0       |
| 40°-50°   | 137.0  | 11.6      |
| 50°-60°   | 196.6  | 16.7      |
| 60°-70°   | 270.8  | 23.0      |
| 70°-80°   | 292.2  | 24.8      |
| 80°-90°   | 62.5   | 5.3       |
| 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°    | 1179.0 | 100.0     |
| 0°-180°   | 1179.0 | 100.0     |

**Coefficient of Utilization**



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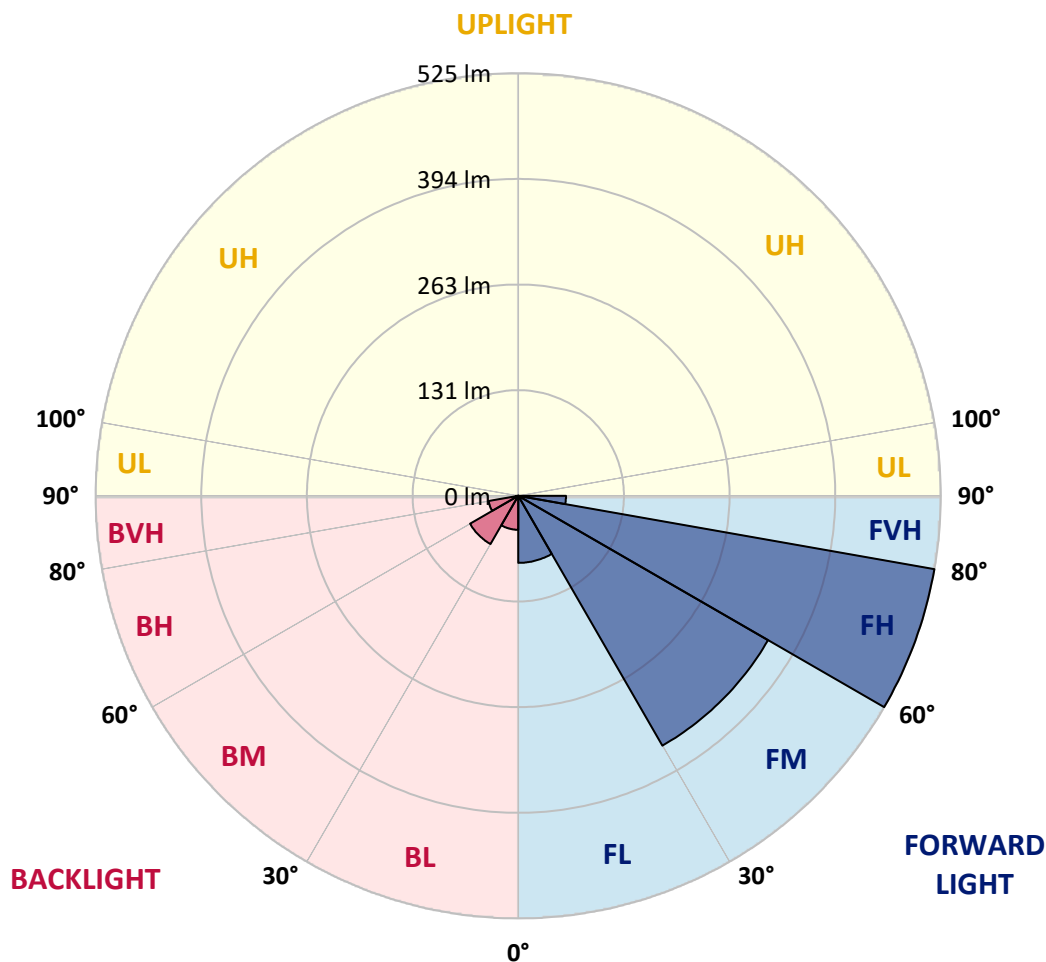
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 83.4   | 7.1       |                         |      |        |
| FM   | (30°-60°)   | 358.7  | 30.4      |                         |      |        |
| FH   | (60°-80°)   | 525.5  | 44.6      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 59.4   | 5.0       |                         |      | G1/100 |
| BL   | (0°-30°)    | 42.3   | 3.6       | B0/110                  |      |        |
| BM   | (30°-60°)   | 69.2   | 5.9       | B0/220                  |      |        |
| BH   | (60°-80°)   | 37.5   | 3.2       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 3.1    | 0.3       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B0-U0-G1**

Type IV Medium



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 39°    | 45°   | 55°   | 65°   | 75°   | 85°   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 | 195.9  | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 |
| 2.5°  | 198.0 | 196.5 | 196.5 | 198.0 | 197.0 | 197.0  | 195.9 | 197.0 | 195.9 | 194.9 | 195.9 |
| 5°    | 195.4 | 194.3 | 193.8 | 195.4 | 194.3 | 193.3  | 194.3 | 193.8 | 193.3 | 191.2 | 191.2 |
| 7.5°  | 190.6 | 189.6 | 189.6 | 191.2 | 191.7 | 190.1  | 190.6 | 191.2 | 189.6 | 187.5 | 188.0 |
| 10°   | 186.4 | 185.9 | 186.9 | 189.0 | 190.1 | 189.0  | 190.1 | 189.6 | 187.5 | 185.3 | 184.8 |
| 12.5° | 183.2 | 182.7 | 184.3 | 188.5 | 190.6 | 190.6  | 191.2 | 189.6 | 188.0 | 185.3 | 183.2 |
| 15°   | 181.1 | 181.1 | 184.3 | 189.6 | 192.7 | 193.8  | 194.3 | 193.3 | 189.6 | 185.9 | 183.2 |
| 17.5° | 182.2 | 181.6 | 185.9 | 192.2 | 195.9 | 198.6  | 198.6 | 197.0 | 192.2 | 187.5 | 184.3 |
| 20°   | 184.8 | 183.7 | 189.0 | 197.0 | 201.7 | 202.3  | 203.3 | 200.2 | 195.4 | 190.1 | 186.4 |
| 22.5° | 185.9 | 188.5 | 194.3 | 203.3 | 206.0 | 207.6  | 207.6 | 204.4 | 197.5 | 193.8 | 189.6 |
| 25°   | 194.3 | 194.9 | 201.7 | 209.7 | 212.3 | 214.5  | 213.4 | 206.5 | 200.7 | 198.6 | 194.9 |
| 27.5° | 203.3 | 203.9 | 210.7 | 216.6 | 218.2 | 219.8  | 220.3 | 210.7 | 204.9 | 204.4 | 199.6 |
| 30°   | 211.3 | 213.4 | 220.3 | 224.5 | 224.5 | 226.1  | 225.6 | 217.1 | 210.7 | 211.8 | 207.0 |
| 32.5° | 225.0 | 224.5 | 231.4 | 231.9 | 229.3 | 231.9  | 231.9 | 222.4 | 218.2 | 222.9 | 215.5 |
| 35°   | 236.7 | 238.8 | 242.0 | 239.3 | 235.6 | 237.8  | 238.8 | 229.8 | 227.7 | 237.2 | 229.3 |
| 37.5° | 252.6 | 251.0 | 252.6 | 247.8 | 242.5 | 245.2  | 247.8 | 239.9 | 240.9 | 254.7 | 244.6 |
| 40°   | 264.8 | 262.1 | 263.2 | 256.8 | 251.5 | 256.8  | 259.5 | 252.1 | 256.8 | 279.1 | 266.9 |
| 42.5° | 274.8 | 272.7 | 270.6 | 266.9 | 262.6 | 269.5  | 273.8 | 267.9 | 278.0 | 306.1 | 294.4 |
| 45°   | 281.7 | 280.1 | 276.9 | 276.4 | 276.9 | 285.4  | 290.7 | 285.9 | 299.7 | 340.0 | 325.1 |
| 47.5° | 285.9 | 284.4 | 284.9 | 285.9 | 290.2 | 301.3  | 310.8 | 306.1 | 328.3 | 375.4 | 354.2 |
| 50°   | 291.8 | 289.1 | 289.6 | 298.6 | 305.0 | 316.7  | 332.0 | 329.9 | 359.0 | 413.0 | 386.0 |
| 52.5° | 299.2 | 294.9 | 294.9 | 310.8 | 320.9 | 334.1  | 353.7 | 356.4 | 390.8 | 451.7 | 418.3 |
| 55°   | 311.4 | 306.1 | 302.4 | 324.1 | 341.5 | 355.8  | 378.6 | 390.3 | 425.2 | 491.9 | 448.0 |
| 57.5° | 324.6 | 319.3 | 313.5 | 341.0 | 364.3 | 381.3  | 407.2 | 424.1 | 464.4 | 527.9 | 469.2 |
| 60°   | 345.2 | 335.7 | 329.9 | 362.7 | 396.1 | 413.6  | 445.3 | 467.0 | 505.7 | 560.8 | 488.2 |
| 62.5° | 360.1 | 352.7 | 351.1 | 390.3 | 435.3 | 455.4  | 485.6 | 508.3 | 543.8 | 592.5 | 504.6 |
| 65°   | 375.4 | 371.2 | 371.7 | 419.9 | 481.9 | 504.1  | 536.9 | 561.3 | 593.1 | 621.7 | 506.2 |
| 67.5° | 397.1 | 392.9 | 401.9 | 455.9 | 535.9 | 565.0  | 598.4 | 619.5 | 639.7 | 626.4 | 477.6 |
| 70°   | 425.7 | 420.4 | 436.9 | 499.3 | 603.1 | 640.7  | 678.8 | 701.6 | 662.4 | 610.0 | 386.0 |
| 72.5° | 455.4 | 451.7 | 478.7 | 561.3 | 697.4 | 745.6  | 789.0 | 776.3 | 673.6 | 523.2 | 251.5 |
| 75°   | 491.4 | 492.5 | 535.9 | 641.3 | 847.8 | 893.8  | 930.4 | 804.9 | 568.7 | 309.2 | 95.8  |
| 77°   | 495.6 | 501.5 | 566.1 | 708.0 | 962.1 | 1003.4 | 928.8 | 642.8 | 342.1 | 110.7 | 54.0  |
| 77.5° | 478.2 | 483.5 | 559.2 | 717.5 | 975.9 | 998.7  | 899.7 | 600.5 | 274.3 | 89.0  | 47.7  |
| 80°   | 356.4 | 351.1 | 433.7 | 598.4 | 784.2 | 737.6  | 538.5 | 233.0 | 80.0  | 46.1  | 29.1  |
| 82.5° | 140.9 | 150.4 | 202.8 | 294.9 | 383.4 | 336.8  | 201.7 | 101.7 | 48.2  | 24.9  | 12.2  |
| 85°   | 65.1  | 69.9  | 76.3  | 78.4  | 99.0  | 102.2  | 75.7  | 94.3  | 34.9  | 11.6  | 7.4   |
| 87.5° | 47.7  | 49.8  | 56.1  | 49.8  | 48.2  | 45.5   | 55.6  | 102.7 | 17.5  | 6.9   | 3.7   |
| 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°    | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 | 195.9 |
| 2.5°  | 194.3 | 192.7 | 193.3 | 192.7 | 191.7 | 190.6 | 189.6 | 188.5 | 189.0 | 189.0 | 187.5 |
| 5°    | 190.1 | 188.0 | 186.9 | 184.3 | 181.1 | 177.9 | 174.2 | 171.6 | 169.4 | 168.4 | 169.4 |
| 7.5°  | 185.9 | 183.2 | 181.1 | 174.7 | 169.4 | 160.4 | 154.6 | 146.7 | 145.6 | 144.6 | 143.5 |
| 10°   | 182.7 | 180.6 | 175.3 | 166.8 | 155.7 | 145.1 | 131.9 | 123.4 | 118.1 | 114.9 | 116.0 |
| 12.5° | 180.6 | 177.9 | 169.4 | 156.2 | 141.9 | 126.0 | 111.2 | 100.1 | 93.7  | 89.5  | 88.4  |
| 15°   | 180.0 | 175.3 | 163.1 | 145.6 | 126.6 | 108.6 | 93.7  | 80.5  | 70.4  | 67.2  | 66.2  |
| 17.5° | 180.0 | 173.7 | 157.3 | 134.5 | 112.3 | 92.1  | 75.7  | 63.5  | 55.1  | 51.9  | 50.8  |
| 20°   | 181.1 | 173.2 | 150.4 | 123.4 | 98.0  | 75.7  | 61.4  | 51.4  | 46.6  | 44.5  | 44.5  |
| 22.5° | 182.7 | 172.6 | 143.0 | 111.2 | 84.2  | 63.5  | 50.8  | 45.0  | 42.9  | 41.3  | 41.3  |
| 25°   | 185.9 | 172.1 | 136.6 | 100.1 | 72.0  | 54.5  | 45.5  | 41.8  | 39.7  | 39.2  | 39.2  |
| 27.5° | 190.1 | 172.6 | 130.3 | 89.5  | 60.9  | 48.2  | 41.8  | 39.7  | 38.7  | 38.1  | 38.1  |
| 30°   | 194.3 | 173.7 | 123.4 | 77.8  | 53.0  | 43.4  | 39.2  | 37.6  | 37.1  | 36.5  | 36.5  |
| 32.5° | 199.1 | 174.7 | 115.4 | 68.3  | 47.1  | 39.7  | 37.1  | 36.0  | 36.0  | 35.5  | 34.9  |
| 35°   | 207.0 | 176.9 | 106.4 | 59.3  | 42.4  | 37.1  | 35.5  | 34.4  | 34.4  | 33.9  | 33.9  |
| 37.5° | 218.2 | 179.5 | 97.4  | 53.0  | 39.2  | 34.9  | 33.4  | 33.4  | 32.8  | 32.8  | 32.3  |
| 40°   | 234.6 | 186.9 | 90.0  | 47.7  | 36.5  | 33.4  | 32.3  | 31.8  | 31.8  | 31.2  | 31.2  |
| 42.5° | 253.1 | 195.9 | 83.1  | 44.0  | 34.9  | 31.8  | 30.7  | 30.7  | 30.7  | 30.2  | 29.7  |
| 45°   | 274.8 | 204.4 | 76.8  | 41.3  | 33.4  | 30.7  | 29.7  | 29.7  | 29.1  | 28.6  | 28.6  |
| 47.5° | 298.1 | 215.0 | 72.5  | 39.7  | 32.8  | 30.2  | 29.1  | 28.1  | 28.1  | 27.5  | 27.5  |
| 50°   | 321.4 | 224.0 | 68.8  | 38.7  | 32.3  | 29.1  | 28.1  | 27.5  | 27.0  | 25.9  | 25.9  |
| 52.5° | 343.7 | 233.5 | 67.8  | 37.6  | 31.2  | 28.6  | 27.0  | 26.5  | 25.9  | 24.9  | 24.9  |
| 55°   | 362.7 | 244.6 | 68.8  | 37.1  | 30.7  | 27.5  | 25.9  | 25.4  | 24.9  | 23.8  | 23.8  |
| 57.5° | 376.5 | 250.5 | 69.4  | 37.1  | 30.2  | 25.9  | 24.4  | 24.9  | 23.8  | 23.3  | 23.3  |
| 60°   | 390.8 | 255.8 | 68.8  | 37.1  | 29.7  | 24.4  | 22.8  | 23.8  | 23.3  | 22.8  | 22.8  |
| 62.5° | 400.3 | 253.6 | 66.2  | 37.1  | 29.1  | 23.3  | 21.7  | 23.3  | 23.8  | 22.8  | 23.3  |
| 65°   | 386.6 | 229.8 | 58.2  | 36.0  | 29.1  | 22.2  | 20.1  | 22.8  | 24.4  | 23.8  | 23.8  |
| 67.5° | 336.8 | 173.7 | 48.7  | 33.9  | 28.1  | 21.7  | 18.5  | 20.7  | 22.8  | 22.2  | 22.8  |
| 70°   | 238.8 | 104.8 | 40.2  | 30.2  | 25.4  | 20.7  | 17.5  | 17.5  | 18.0  | 18.5  | 19.1  |
| 72.5° | 123.9 | 57.2  | 32.8  | 26.5  | 22.2  | 18.5  | 15.9  | 14.8  | 14.8  | 14.8  | 15.4  |
| 75°   | 54.5  | 37.6  | 27.0  | 21.7  | 18.5  | 15.9  | 14.3  | 12.7  | 12.7  | 12.2  | 12.2  |
| 77°   | 38.1  | 29.7  | 22.2  | 18.0  | 15.4  | 13.2  | 12.7  | 11.1  | 11.1  | 10.6  | 10.6  |
| 77.5° | 34.4  | 27.5  | 21.7  | 16.9  | 14.8  | 12.7  | 12.2  | 10.6  | 10.6  | 10.6  | 10.6  |
| 80°   | 23.3  | 21.7  | 16.4  | 12.7  | 11.6  | 10.1  | 9.5   | 9.0   | 8.5   | 8.5   | 8.5   |
| 82.5° | 13.8  | 15.9  | 11.6  | 9.0   | 8.5   | 7.4   | 6.9   | 6.9   | 6.9   | 6.4   | 5.8   |
| 85°   | 8.5   | 11.6  | 7.4   | 5.8   | 5.8   | 4.8   | 4.8   | 4.2   | 4.2   | 3.7   | 3.7   |
| 87.5° | 3.7   | 7.4   | 4.2   | 2.6   | 2.1   | 1.6   | 2.1   | 1.6   | 1.6   | 1.1   | 1.6   |
| 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)