

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: P636448

Luminaire Tested: **IFLD-S-SA2B-930-U-55-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636448  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-930-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (32) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6046.7 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G0

Input Watts (W): 82.4  
Input Voltage (V): 120  
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: 25 FT



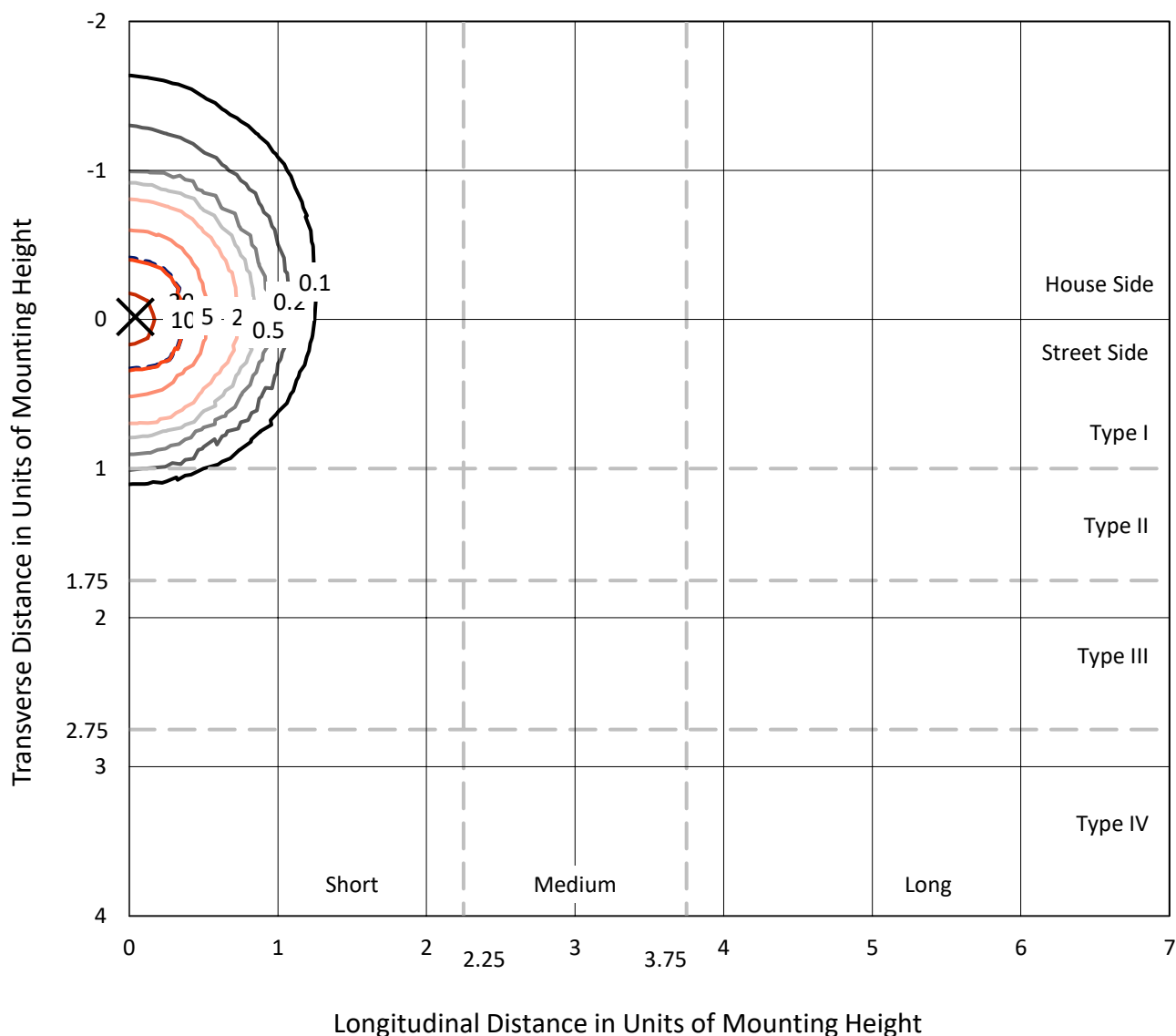
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

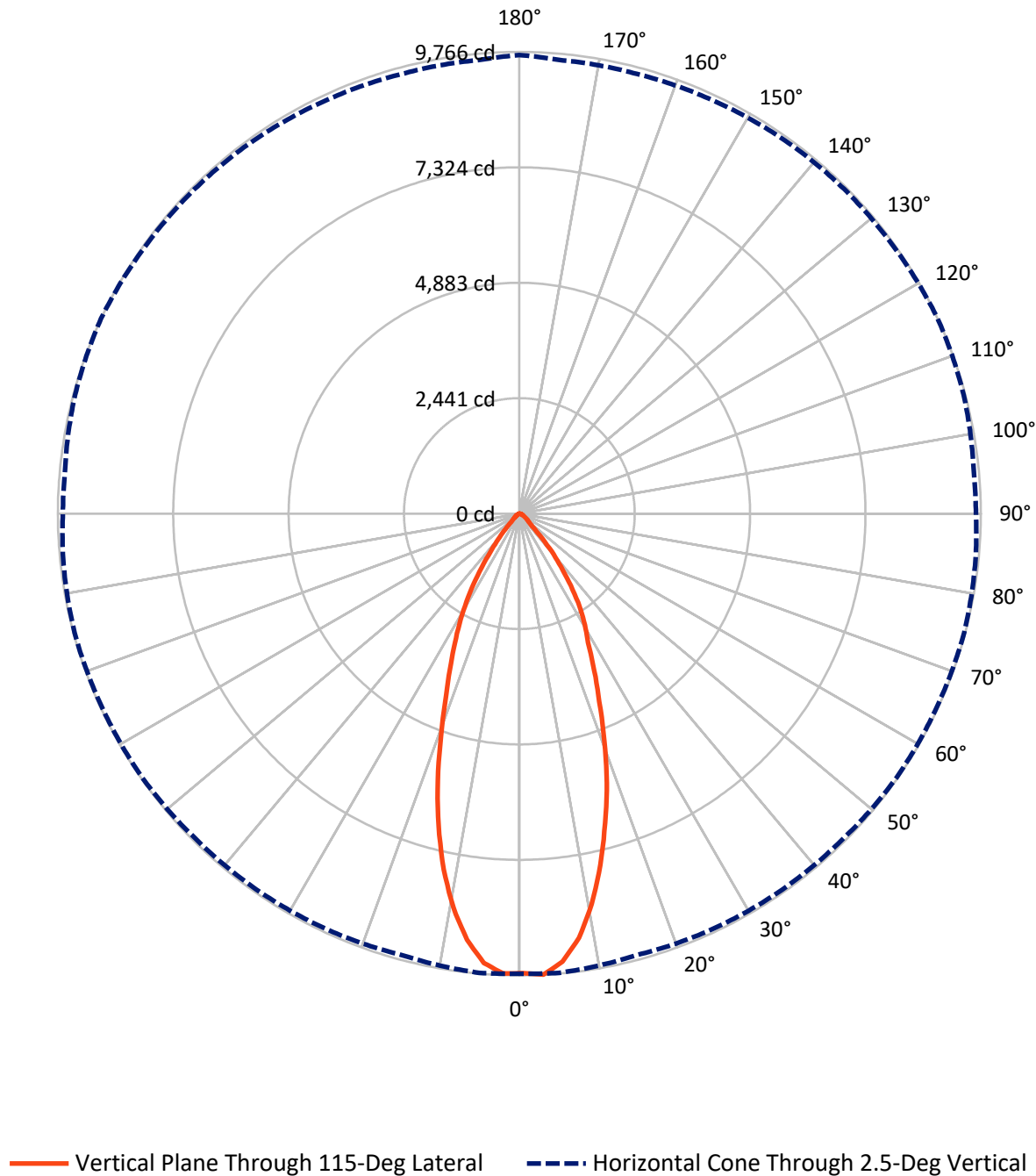


Based on 20 foot mounting height. Maximum calculated value = 24.3 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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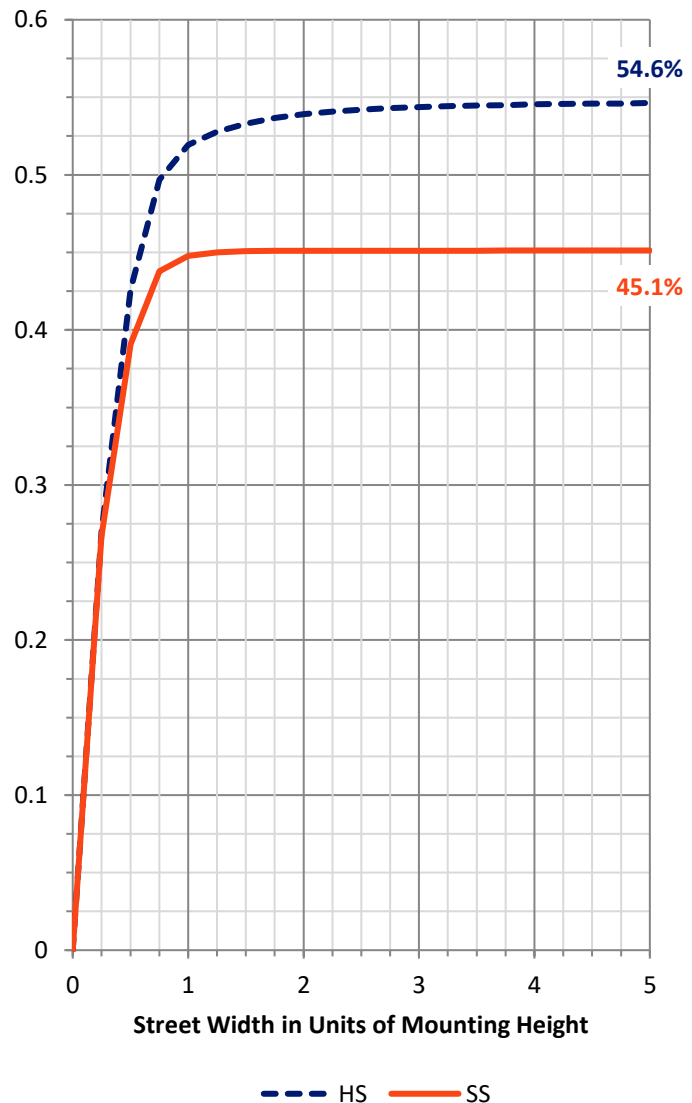
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3337.1   | 0.0    | 3337.1 |
|                    | % Fixture | 55.2     | 0.0    | 55.2   |
| <b>Street Side</b> | Lumens    | 2709.6   | 0.0    | 2709.6 |
|                    | % Fixture | 44.8     | 0.0    | 44.8   |
| <b>Total</b>       | Lumens    | 6046.7   | 0.0    | 6046.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 871.8  | 14.4      |
| 10°-20°   | 1842.6 | 30.5      |
| 20°-30°   | 1663.0 | 27.5      |
| 30°-40°   | 1100.5 | 18.2      |
| 40°-50°   | 329.7  | 5.5       |
| 50°-60°   | 132.2  | 2.2       |
| 60°-70°   | 68.5   | 1.1       |
| 70°-80°   | 29.7   | 0.5       |
| 80°-90°   | 8.6    | 0.1       |
| 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°    | 6046.7 | 100.0     |
| 0°-180°   | 6046.7 | 100.0     |

**Coefficient of Utilization**



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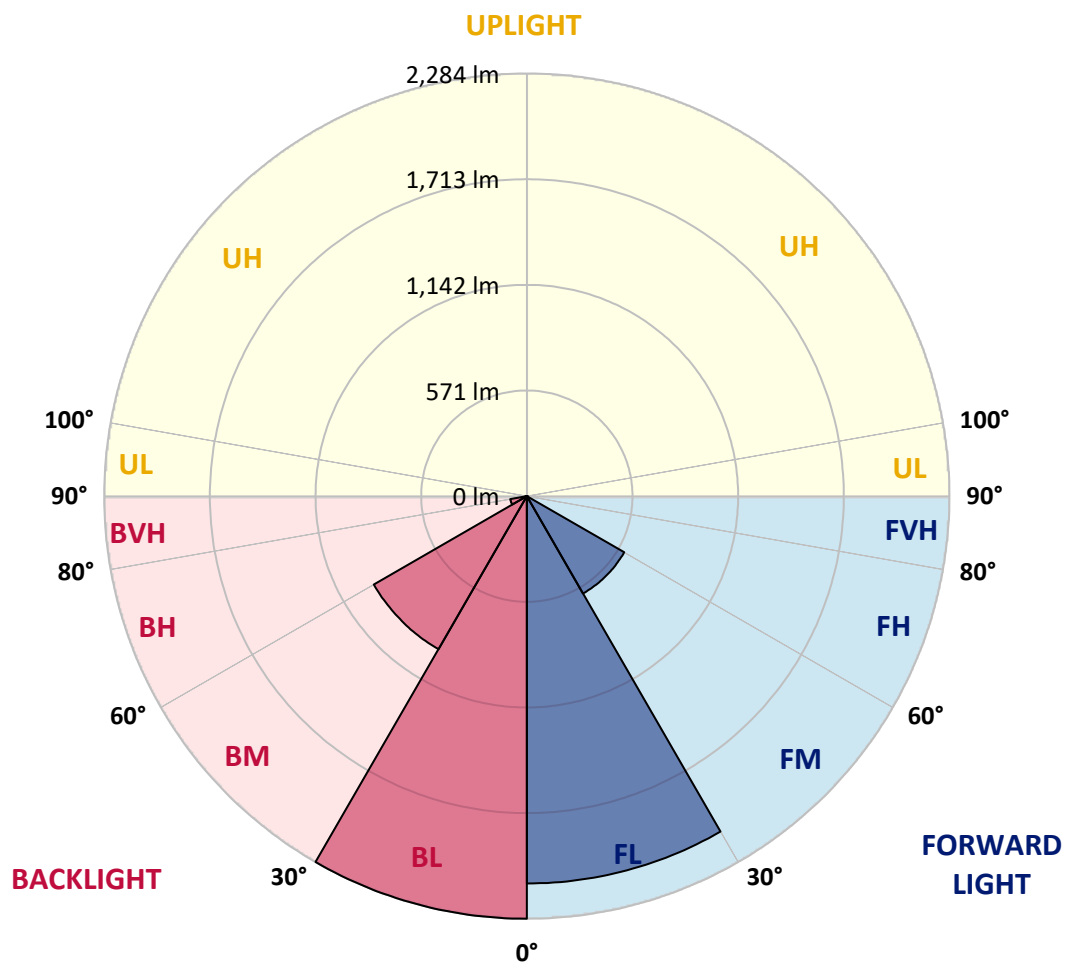
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2093.4 | 34.6      |                         |      |        |
| FM   | (30°-60°)   | 607.4  | 10.0      |                         |      |        |
| FH   | (60°-80°)   | 7.5    | 0.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 1.2    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 2284.0 | 37.8      | B3/2500                 |      |        |
| BM   | (30°-60°)   | 955.0  | 15.8      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 90.7   | 1.5       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 7.4    | 0.1       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 |
| 2.5°  | 9732.5 | 9749.8 | 9663.2 | 9692.9 | 9705.3 | 9709.0 | 9739.9 | 9735.0 | 9743.6 | 9697.9 |
| 5°    | 9603.9 | 9570.5 | 9506.2 | 9507.4 | 9503.7 | 9469.1 | 9539.6 | 9534.6 | 9519.8 | 9465.4 |
| 7.5°  | 9166.1 | 9214.3 | 9093.1 | 9090.7 | 9088.2 | 9046.1 | 9138.9 | 9082.0 | 9094.4 | 9016.5 |
| 10°   | 8525.5 | 8531.7 | 8424.1 | 8414.2 | 8422.9 | 8368.5 | 8476.1 | 8453.8 | 8477.3 | 8395.7 |
| 12.5° | 7740.2 | 7774.9 | 7656.1 | 7638.8 | 7673.5 | 7596.8 | 7683.4 | 7694.5 | 7659.9 | 7648.7 |
| 15°   | 6070.8 | 6162.3 | 6387.3 | 6731.1 | 6820.2 | 6755.9 | 6825.1 | 6823.9 | 6838.7 | 6754.6 |
| 17.5° | 4625.1 | 4633.8 | 4580.6 | 4745.1 | 5697.3 | 6006.4 | 6021.3 | 5903.8 | 5814.8 | 5783.8 |
| 20°   | 4037.7 | 4067.4 | 4019.1 | 4032.7 | 4184.8 | 5091.3 | 5125.9 | 4949.1 | 4797.0 | 4784.6 |
| 22.5° | 3570.2 | 3588.8 | 3554.2 | 3565.3 | 3572.7 | 3679.1 | 4281.3 | 4125.5 | 4052.5 | 3996.9 |
| 25°   | 3174.5 | 3174.5 | 3156.0 | 3159.7 | 3152.2 | 2995.2 | 3304.3 | 3482.4 | 3440.4 | 3420.6 |
| 27.5° | 2813.4 | 2818.3 | 2794.8 | 2808.4 | 2718.2 | 2464.7 | 2427.6 | 2953.1 | 2908.6 | 2872.8 |
| 30°   | 2470.8 | 2486.9 | 2464.7 | 2472.1 | 2275.4 | 2067.7 | 1961.3 | 2463.4 | 2519.1 | 2509.2 |
| 32.5° | 1859.9 | 1932.9 | 2112.2 | 2119.6 | 1852.5 | 1693.0 | 1646.0 | 1977.4 | 2188.9 | 2170.3 |
| 35°   | 1152.6 | 1148.9 | 1156.3 | 1512.4 | 1420.9 | 1312.1 | 1329.4 | 1493.9 | 1732.6 | 1723.9 |
| 37.5° | 879.3  | 878.0  | 891.6  | 855.8  | 931.2  | 995.5  | 1009.1 | 1009.1 | 1265.1 | 1266.3 |
| 40°   | 666.6  | 661.6  | 660.4  | 603.5  | 505.8  | 746.9  | 724.7  | 706.1  | 879.3  | 897.8  |
| 42.5° | 425.4  | 440.3  | 429.1  | 367.3  | 330.2  | 408.1  | 455.1  | 440.3  | 542.9  | 556.5  |
| 45°   | 237.4  | 237.4  | 227.5  | 192.9  | 191.7  | 206.5  | 259.7  | 242.4  | 278.2  | 296.8  |
| 47.5° | 115.0  | 112.5  | 123.7  | 152.1  | 158.3  | 153.3  | 185.5  | 192.9  | 210.2  | 227.5  |
| 50°   | 92.7   | 92.7   | 87.8   | 79.1   | 131.1  | 126.1  | 137.3  | 147.2  | 157.1  | 171.9  |
| 52.5° | 77.9   | 77.9   | 71.7   | 66.8   | 75.4   | 96.5   | 97.7   | 116.2  | 115.0  | 136.0  |
| 55°   | 39.6   | 40.8   | 58.1   | 58.1   | 50.7   | 79.1   | 80.4   | 94.0   | 96.5   | 113.8  |
| 57.5° | 3.7    | 4.9    | 7.4    | 35.9   | 39.6   | 43.3   | 60.6   | 69.3   | 80.4   | 87.8   |
| 60°   | 1.2    | 1.2    | 2.5    | 4.9    | 23.5   | 29.7   | 38.3   | 45.8   | 55.6   | 73.0   |
| 62.5° | 0.0    | 0.0    | 1.2    | 2.5    | 4.9    | 18.5   | 21.0   | 23.5   | 33.4   | 45.8   |
| 65°   | 0.0    | 0.0    | 1.2    | 1.2    | 2.5    | 6.2    | 8.7    | 14.8   | 21.0   | 28.4   |
| 67.5° | 0.0    | 0.0    | 1.2    | 1.2    | 2.5    | 3.7    | 4.9    | 7.4    | 9.9    | 18.5   |
| 70°   | 0.0    | 0.0    | 1.2    | 1.2    | 2.5    | 3.7    | 3.7    | 4.9    | 6.2    | 8.7    |
| 72.5° | 0.0    | 0.0    | 1.2    | 1.2    | 2.5    | 4.9    | 3.7    | 3.7    | 4.9    | 6.2    |
| 75°   | 0.0    | 0.0    | 1.2    | 1.2    | 2.5    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 77.5° | 0.0    | 0.0    | 1.2    | 1.2    | 2.5    | 3.7    | 3.7    | 3.7    | 2.5    | 2.5    |
| 80°   | 0.0    | 0.0    | 1.2    | 1.2    | 2.5    | 3.7    | 4.9    | 4.9    | 2.5    | 2.5    |
| 82.5° | 0.0    | 0.0    | 1.2    | 2.5    | 2.5    | 6.2    | 7.4    | 6.2    | 2.5    | 1.2    |
| 85°   | 0.0    | 0.0    | 1.2    | 1.2    | 3.7    | 6.2    | 6.2    | 3.7    | 2.5    | 1.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 2.5    | 3.7    | 3.7    | 1.2    | 1.2    |
| 90°   | 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9720.1 | 0°    | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 | 9720.1 |
| 9660.8 | 2.5°  | 9655.8 | 9731.3 | 9765.9 | 9730.0 | 9712.7 | 9688.0 | 9652.1 | 9627.4 | 9632.3 |
| 9435.7 | 5°    | 9414.7 | 9493.8 | 9521.0 | 9490.1 | 9464.1 | 9450.5 | 9444.4 | 9456.7 | 9488.9 |
| 8983.1 | 7.5°  | 8980.6 | 9031.3 | 9061.0 | 9046.1 | 9010.3 | 9051.1 | 9062.2 | 9054.8 | 9101.8 |
| 8370.9 | 10°   | 8373.4 | 8429.1 | 8401.9 | 8408.0 | 8366.0 | 8387.0 | 8380.8 | 8408.0 | 8455.0 |
| 7640.1 | 12.5° | 7590.6 | 7643.8 | 7622.8 | 7619.0 | 7574.5 | 7614.1 | 7589.4 | 7619.0 | 7680.9 |
| 6720.0 | 15°   | 6768.2 | 6801.6 | 6788.0 | 6767.0 | 6727.4 | 6741.0 | 6817.7 | 6812.7 | 6840.0 |
| 5765.3 | 17.5° | 5740.6 | 5901.3 | 5989.1 | 6007.7 | 5975.5 | 6002.7 | 6057.1 | 6043.5 | 6105.4 |
| 4758.7 | 20°   | 4750.0 | 4912.0 | 5128.4 | 5304.0 | 5307.7 | 5311.4 | 5346.1 | 5354.7 | 5407.9 |
| 3998.1 | 22.5° | 3980.8 | 4095.8 | 4328.3 | 4560.8 | 4721.6 | 4754.9 | 4751.2 | 4763.6 | 4778.4 |
| 3393.4 | 25°   | 3384.7 | 3468.8 | 3681.5 | 3842.3 | 4124.3 | 4218.2 | 4245.4 | 4218.2 | 4226.9 |
| 2860.4 | 27.5° | 2892.5 | 3021.2 | 3091.6 | 3263.5 | 3539.3 | 3757.0 | 3748.3 | 3732.2 | 3734.7 |
| 2489.4 | 30°   | 2488.2 | 2626.7 | 2730.5 | 2782.5 | 2990.2 | 3304.3 | 3336.5 | 3290.7 | 3292.0 |
| 2161.7 | 32.5° | 2148.1 | 2191.4 | 2344.7 | 2386.7 | 2520.3 | 2806.0 | 2916.0 | 2881.4 | 2875.2 |
| 1728.8 | 35°   | 1779.6 | 1803.0 | 1873.5 | 1956.4 | 2035.5 | 2252.0 | 2433.7 | 2401.6 | 2417.7 |
| 1271.3 | 37.5° | 1266.3 | 1362.8 | 1430.8 | 1498.8 | 1555.7 | 1691.7 | 1910.6 | 1881.0 | 1897.0 |
| 900.3  | 40°   | 892.9  | 936.1  | 1053.6 | 1083.3 | 1167.4 | 1230.5 | 1416.0 | 1406.1 | 1425.9 |
| 559.0  | 42.5° | 549.1  | 580.0  | 639.4  | 667.8  | 724.7  | 760.5  | 869.4  | 881.7  | 907.7  |
| 309.2  | 45°   | 311.6  | 325.2  | 366.1  | 397.0  | 439.0  | 453.9  | 492.2  | 509.5  | 524.3  |
| 239.9  | 47.5° | 237.4  | 252.3  | 279.5  | 306.7  | 341.3  | 353.7  | 380.9  | 406.9  | 420.5  |
| 185.5  | 50°   | 194.2  | 207.8  | 236.2  | 258.5  | 293.1  | 304.2  | 326.5  | 354.9  | 372.2  |
| 141.0  | 52.5° | 147.2  | 166.9  | 201.6  | 225.1  | 260.9  | 274.5  | 295.6  | 324.0  | 340.1  |
| 116.2  | 55°   | 121.2  | 136.0  | 166.9  | 199.1  | 232.5  | 251.0  | 264.6  | 299.3  | 316.6  |
| 95.2   | 57.5° | 103.9  | 115.0  | 134.8  | 173.1  | 201.6  | 228.8  | 239.9  | 272.1  | 289.4  |
| 75.4   | 60°   | 79.1   | 96.5   | 113.8  | 143.5  | 175.6  | 204.0  | 216.4  | 244.9  | 258.5  |
| 54.4   | 62.5° | 65.5   | 76.7   | 98.9   | 115.0  | 150.9  | 180.6  | 192.9  | 218.9  | 228.8  |
| 35.9   | 65°   | 45.8   | 61.8   | 82.9   | 92.7   | 126.1  | 154.6  | 171.9  | 191.7  | 201.6  |
| 21.0   | 67.5° | 27.2   | 45.8   | 65.5   | 79.1   | 102.6  | 131.1  | 149.6  | 168.2  | 176.8  |
| 12.4   | 70°   | 17.3   | 35.9   | 51.9   | 66.8   | 80.4   | 107.6  | 129.8  | 145.9  | 142.2  |
| 7.4    | 72.5° | 9.9    | 22.3   | 38.3   | 54.4   | 66.8   | 90.3   | 111.3  | 123.7  | 87.8   |
| 4.9    | 75°   | 6.2    | 16.1   | 32.2   | 44.5   | 54.4   | 71.7   | 91.5   | 94.0   | 54.4   |
| 2.5    | 77.5° | 4.9    | 12.4   | 24.7   | 35.9   | 37.1   | 53.2   | 64.3   | 73.0   | 40.8   |
| 2.5    | 80°   | 2.5    | 9.9    | 21.0   | 29.7   | 23.5   | 37.1   | 49.5   | 56.9   | 32.2   |
| 1.2    | 82.5° | 2.5    | 6.2    | 16.1   | 21.0   | 17.3   | 28.4   | 35.9   | 40.8   | 27.2   |
| 1.2    | 85°   | 1.2    | 4.9    | 8.7    | 12.4   | 12.4   | 18.5   | 16.1   | 19.8   | 17.3   |
| 1.2    | 87.5° | 1.2    | 2.5    | 4.9    | 6.2    | 4.9    | 7.4    | 8.7    | 8.7    | 7.4    |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



| 180°   |
|--------|
| 9720.1 |
| 9699.1 |
| 9555.7 |
| 9148.8 |
| 8473.6 |
| 7692.0 |
| 6846.1 |
| 6095.5 |
| 5396.8 |
| 4751.2 |
| 4213.3 |
| 3738.4 |
| 3293.2 |
| 2890.1 |
| 2432.5 |
| 1910.6 |
| 1433.3 |
| 937.4  |
| 523.1  |
| 426.6  |
| 379.7  |
| 351.2  |
| 321.5  |
| 296.8  |
| 260.9  |
| 230.0  |
| 201.6  |
| 175.6  |
| 131.1  |
| 77.9   |
| 50.7   |
| 40.8   |
| 33.4   |
| 29.7   |
| 17.3   |
| 6.2    |
| 0.0    |

(END OF REPORT)