

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: P637550

Luminaire Tested: **IFLD-S-SA2B-727-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637550  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-727-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8969.5 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

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



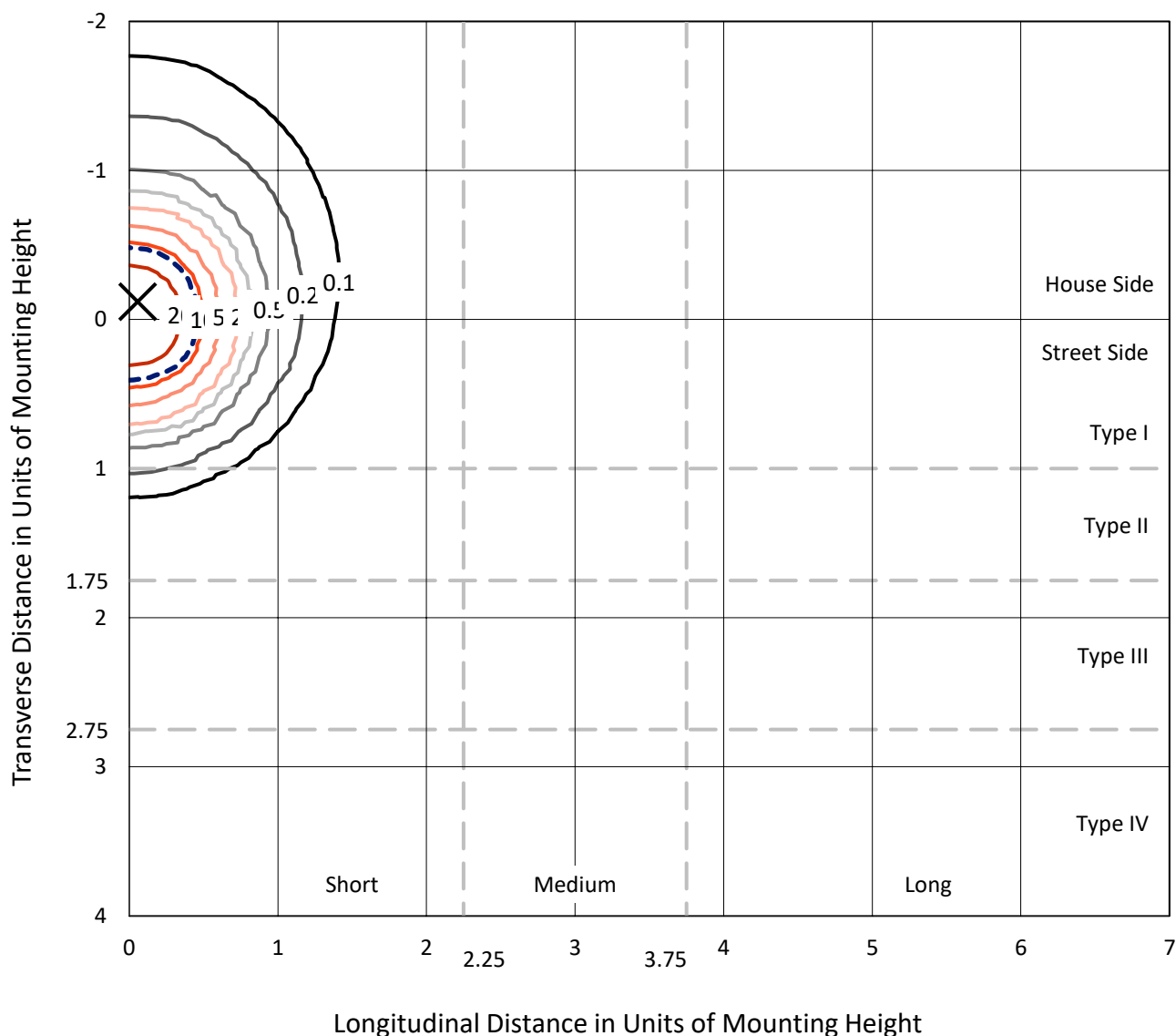
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



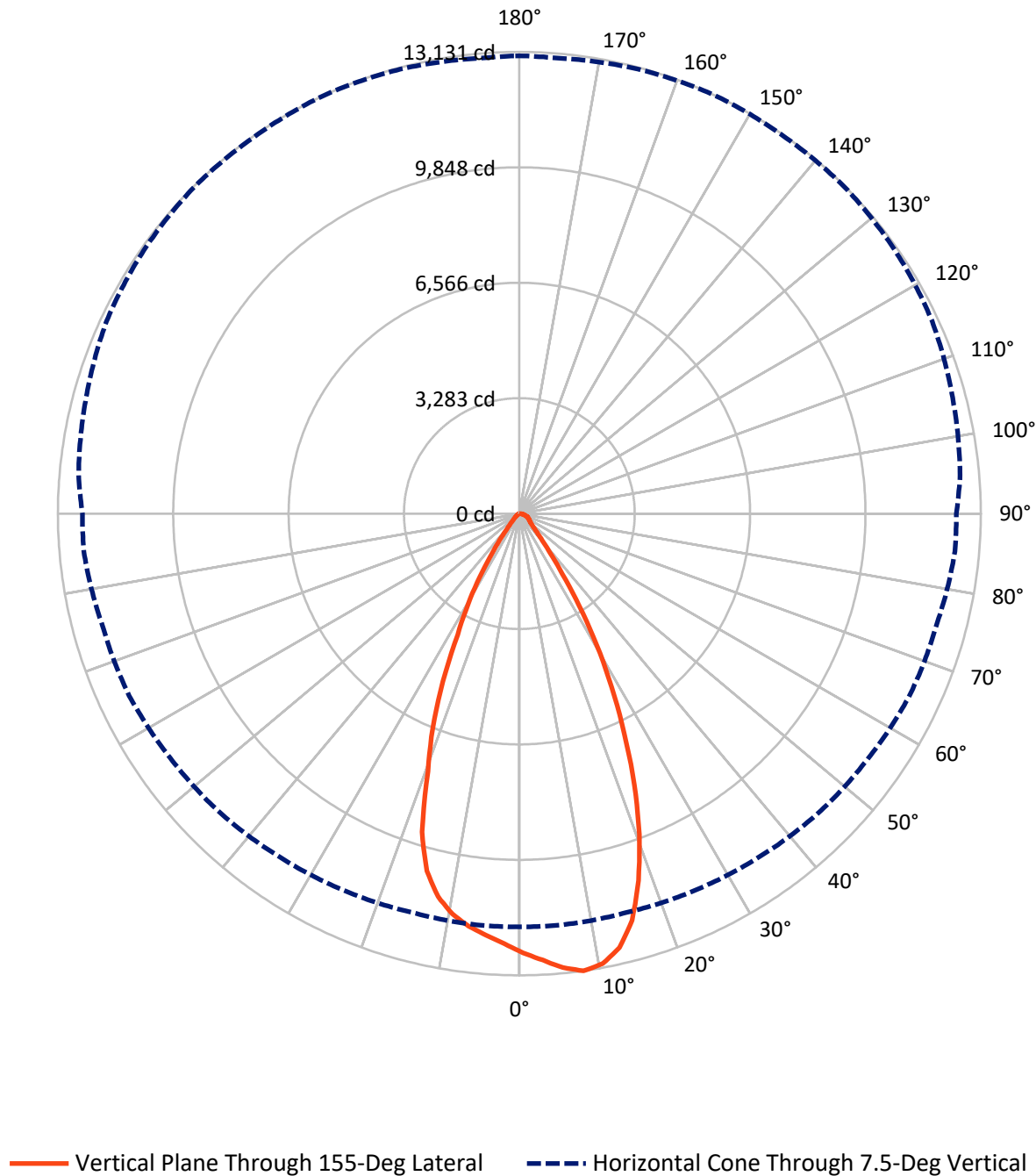
Based on 20 foot mounting height. Maximum calculated value = 31.8 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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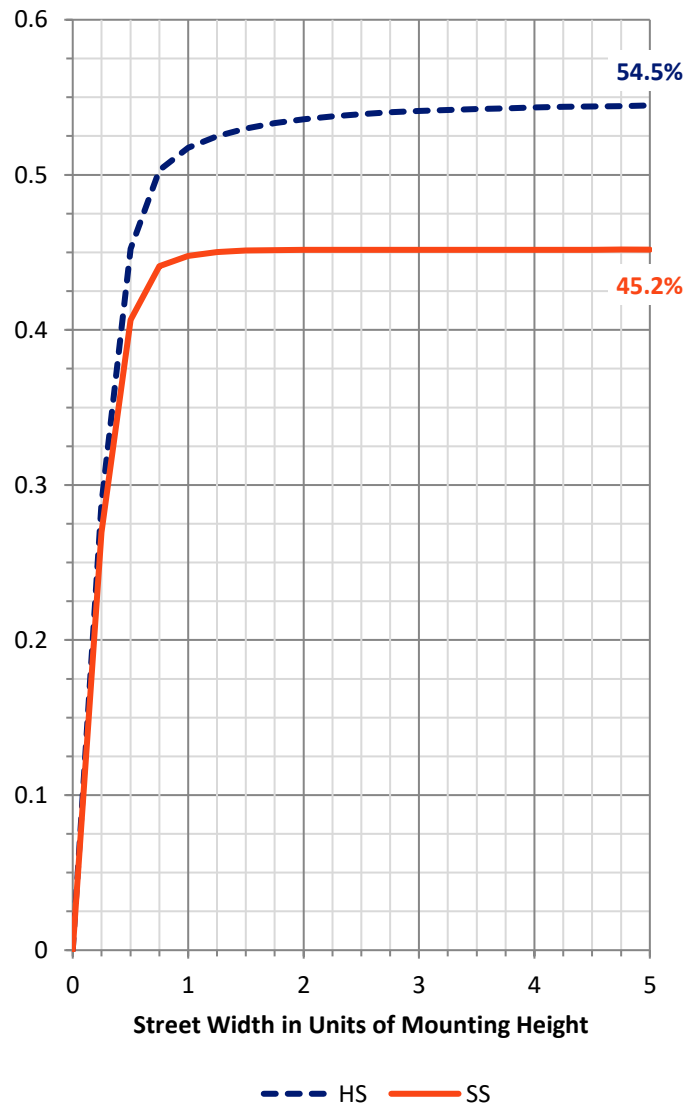
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4951.5   | 0.0    | 4951.5 |
|                    | % Fixture | 55.2     | 0.0    | 55.2   |
| <b>Street Side</b> | Lumens    | 4018.0   | 0.0    | 4018.0 |
|                    | % Fixture | 44.8     | 0.0    | 44.8   |
| <b>Total</b>       | Lumens    | 8969.5   | 0.0    | 8969.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1191.5 | 13.3      |
| 10°-20°   | 3089.6 | 34.4      |
| 20°-30°   | 2830.9 | 31.6      |
| 30°-40°   | 1143.7 | 12.8      |
| 40°-50°   | 335.5  | 3.7       |
| 50°-60°   | 187.6  | 2.1       |
| 60°-70°   | 113.9  | 1.3       |
| 70°-80°   | 57.9   | 0.6       |
| 80°-90°   | 18.9   | 0.2       |
| 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°    | 8969.5 | 100.0     |
| 0°-180°   | 8969.5 | 100.0     |

**Coefficient of Utilization**



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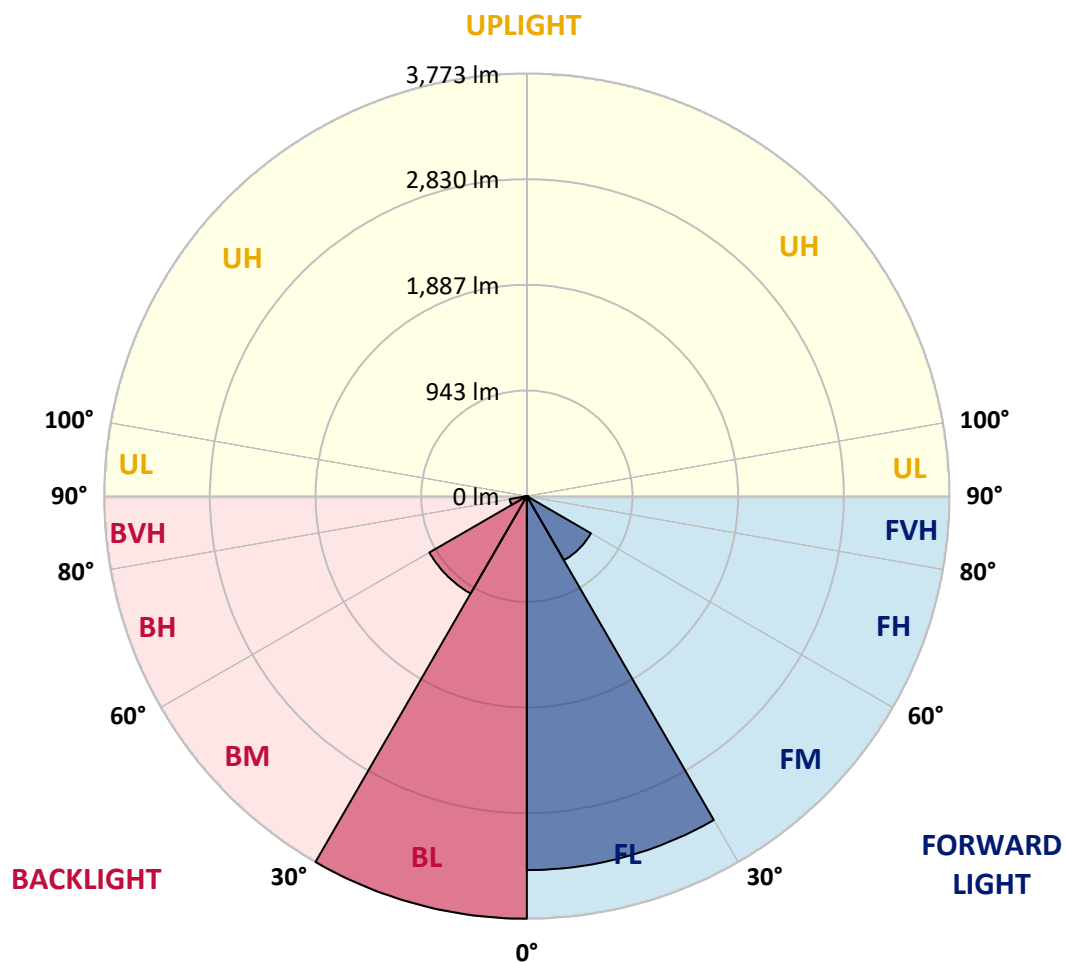
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3338.7 | 37.2      |                         |      |        |
| FM   | (30°-60°)   | 661.7  | 7.4       |                         |      |        |
| FH   | (60°-80°)   | 16.0   | 0.2       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 1.6    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 3773.3 | 42.1      | B4/5000                 |      |        |
| BM   | (30°-60°)   | 1005.1 | 11.2      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 155.8  | 1.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 17.3   | 0.2       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G1**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 |
| 2.5°  | 12224.2 | 12265.6 | 12182.8 | 12237.6 | 12280.0 | 12381.4 | 12389.7 | 12424.8 | 12437.3 | 12529.3 |
| 5°    | 11992.5 | 12024.6 | 11957.3 | 12030.8 | 12090.8 | 12180.7 | 12250.0 | 12347.3 | 12401.1 | 12509.7 |
| 7.5°  | 11751.5 | 11758.8 | 11745.3 | 11822.9 | 11912.9 | 12037.0 | 12122.8 | 12250.0 | 12283.1 | 12438.3 |
| 10°   | 11459.9 | 11407.1 | 11433.0 | 11546.7 | 11681.2 | 11871.5 | 11930.5 | 12057.7 | 12116.6 | 12274.9 |
| 12.5° | 10994.4 | 11021.3 | 10989.3 | 11134.1 | 11245.8 | 11461.9 | 11524.0 | 11652.2 | 11765.0 | 11904.6 |
| 15°   | 10338.7 | 10323.2 | 10388.3 | 10501.1 | 10622.1 | 10793.8 | 10894.1 | 11033.7 | 11119.6 | 11264.4 |
| 17.5° | 8864.8  | 8917.6  | 9186.5  | 9468.9  | 9717.1  | 9917.7  | 10037.7 | 10153.6 | 10215.6 | 10372.8 |
| 20°   | 7655.8  | 7589.6  | 7625.8  | 7785.0  | 8491.5  | 8798.6  | 8924.8  | 8952.8  | 8978.6  | 9102.7  |
| 22.5° | 6304.0  | 6282.2  | 6403.2  | 6582.2  | 6749.7  | 7458.2  | 7629.9  | 7564.7  | 7618.5  | 7735.4  |
| 25°   | 4681.2  | 4790.8  | 4898.4  | 5241.7  | 5458.9  | 5806.5  | 6132.3  | 6161.2  | 6180.9  | 6254.3  |
| 27.5° | 3810.3  | 3772.0  | 3770.0  | 3866.1  | 4186.8  | 4476.4  | 4753.6  | 4817.7  | 4806.3  | 4876.6  |
| 30°   | 2995.3  | 2982.9  | 2939.4  | 2962.2  | 2930.1  | 3187.7  | 3318.0  | 3581.7  | 3567.2  | 3569.3  |
| 32.5° | 2160.6  | 2114.1  | 2096.5  | 2130.6  | 2097.5  | 2073.7  | 2187.5  | 2485.4  | 2480.2  | 2500.9  |
| 35°   | 1307.3  | 1301.1  | 1315.6  | 1345.6  | 1279.4  | 1277.3  | 1301.1  | 1581.4  | 1615.5  | 1648.6  |
| 37.5° | 721.9   | 715.7   | 727.1   | 837.8   | 816.0   | 796.4   | 802.6   | 950.5   | 1048.8  | 1073.6  |
| 40°   | 475.8   | 474.7   | 483.0   | 502.7   | 539.9   | 532.7   | 535.8   | 602.0   | 695.0   | 716.8   |
| 42.5° | 318.6   | 319.6   | 324.8   | 347.5   | 352.7   | 389.9   | 383.7   | 399.2   | 486.1   | 504.7   |
| 45°   | 254.4   | 253.4   | 256.5   | 246.2   | 252.4   | 290.6   | 294.8   | 295.8   | 370.3   | 381.7   |
| 47.5° | 200.7   | 200.7   | 203.8   | 190.3   | 187.2   | 211.0   | 232.7   | 235.8   | 295.8   | 311.3   |
| 50°   | 140.7   | 140.7   | 156.2   | 150.0   | 157.2   | 164.5   | 188.2   | 191.3   | 242.0   | 258.6   |
| 52.5° | 103.4   | 105.5   | 107.6   | 108.6   | 132.4   | 131.4   | 152.0   | 166.5   | 183.1   | 212.0   |
| 55°   | 78.6    | 80.7    | 75.5    | 80.7    | 98.3    | 109.6   | 113.8   | 134.5   | 145.8   | 177.9   |
| 57.5° | 51.7    | 56.9    | 52.7    | 62.1    | 66.2    | 84.8    | 91.0    | 110.7   | 117.9   | 145.8   |
| 60°   | 7.2     | 8.3     | 13.4    | 43.4    | 46.5    | 55.9    | 70.3    | 87.9    | 95.2    | 118.9   |
| 62.5° | 1.0     | 1.0     | 3.1     | 7.2     | 31.0    | 37.2    | 52.7    | 61.0    | 70.3    | 88.9    |
| 65°   | 0.0     | 0.0     | 1.0     | 2.1     | 6.2     | 21.7    | 26.9    | 33.1    | 48.6    | 64.1    |
| 67.5° | 0.0     | 0.0     | 1.0     | 2.1     | 3.1     | 7.2     | 11.4    | 21.7    | 27.9    | 44.5    |
| 70°   | 0.0     | 0.0     | 1.0     | 2.1     | 3.1     | 4.1     | 6.2     | 8.3     | 16.5    | 25.9    |
| 72.5° | 0.0     | 0.0     | 1.0     | 2.1     | 3.1     | 4.1     | 5.2     | 6.2     | 7.2     | 16.5    |
| 75°   | 0.0     | 0.0     | 1.0     | 2.1     | 3.1     | 5.2     | 6.2     | 6.2     | 6.2     | 7.2     |
| 77.5° | 0.0     | 0.0     | 1.0     | 2.1     | 4.1     | 6.2     | 7.2     | 6.2     | 5.2     | 5.2     |
| 80°   | 0.0     | 0.0     | 1.0     | 3.1     | 5.2     | 7.2     | 8.3     | 6.2     | 4.1     | 3.1     |
| 82.5° | 0.0     | 0.0     | 1.0     | 3.1     | 5.2     | 7.2     | 8.3     | 7.2     | 4.1     | 3.1     |
| 85°   | 0.0     | 0.0     | 1.0     | 3.1     | 4.1     | 5.2     | 8.3     | 7.2     | 4.1     | 2.1     |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.0     | 1.0     | 2.1     | 4.1     | 3.1     | 2.1     | 1.0     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12495.2 | 0°    | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 | 12495.2 |
| 12527.2 | 2.5°  | 12620.3 | 12666.9 | 12748.6 | 12771.3 | 12841.7 | 12761.0 | 12716.5 | 12720.6 | 12624.5 |
| 12496.2 | 5°    | 12620.3 | 12726.8 | 12869.6 | 12937.8 | 12989.6 | 12985.4 | 12974.0 | 12945.1 | 12874.8 |
| 12434.1 | 7.5°  | 12587.2 | 12761.0 | 12957.5 | 13048.5 | 13110.6 | 13105.4 | 13131.3 | 13084.7 | 12998.9 |
| 12323.5 | 10°   | 12480.7 | 12631.7 | 12873.7 | 12948.2 | 13048.5 | 13050.6 | 13018.5 | 13027.8 | 12874.8 |
| 11919.1 | 12.5° | 12145.6 | 12263.5 | 12475.5 | 12560.3 | 12682.4 | 12702.0 | 12666.9 | 12653.4 | 12508.6 |
| 11256.1 | 15°   | 11497.1 | 11565.3 | 11778.4 | 11863.2 | 11984.2 | 11967.7 | 12002.9 | 11988.4 | 11861.2 |
| 10360.4 | 17.5° | 10548.6 | 10570.4 | 10793.8 | 10865.1 | 10978.9 | 11023.4 | 10970.6 | 11037.9 | 10928.2 |
| 9124.4  | 20°   | 9188.6  | 9305.4  | 9556.8  | 9666.4  | 9732.6  | 9812.2  | 9742.9  | 9818.4  | 9690.2  |
| 7624.7  | 22.5° | 7808.8  | 7878.1  | 8105.7  | 8263.9  | 8387.0  | 8402.5  | 8376.7  | 8429.4  | 8256.7  |
| 6302.9  | 25°   | 6301.9  | 6416.7  | 6596.7  | 6803.5  | 6924.5  | 6999.0  | 6931.8  | 6965.9  | 6938.0  |
| 4888.0  | 27.5° | 4970.8  | 5073.2  | 5208.6  | 5362.8  | 5544.8  | 5642.0  | 5588.2  | 5646.1  | 5509.6  |
| 3644.8  | 30°   | 3647.9  | 3699.6  | 3852.7  | 4016.1  | 4215.7  | 4333.6  | 4338.8  | 4397.8  | 4317.1  |
| 2553.6  | 32.5° | 2572.3  | 2617.8  | 2711.9  | 2820.5  | 3010.8  | 3142.2  | 3121.5  | 3129.7  | 3080.1  |
| 1664.2  | 35°   | 1672.4  | 1733.5  | 1800.7  | 1852.4  | 1967.2  | 2112.0  | 2100.6  | 2090.3  | 2056.2  |
| 1094.3  | 37.5° | 1118.1  | 1141.8  | 1179.1  | 1225.6  | 1300.1  | 1391.1  | 1421.1  | 1383.9  | 1369.4  |
| 738.5   | 40°   | 756.1   | 797.4   | 822.3   | 857.4   | 892.6   | 969.1   | 989.8   | 982.6   | 968.1   |
| 517.1   | 42.5° | 536.8   | 568.9   | 599.9   | 634.0   | 652.6   | 700.2   | 740.5   | 729.2   | 723.0   |
| 393.0   | 45°   | 407.5   | 436.5   | 472.7   | 498.5   | 517.1   | 545.1   | 583.3   | 587.5   | 578.2   |
| 315.5   | 47.5° | 326.8   | 352.7   | 381.7   | 413.7   | 435.4   | 453.0   | 486.1   | 498.5   | 492.3   |
| 265.8   | 50°   | 277.2   | 296.8   | 324.8   | 356.8   | 380.6   | 396.1   | 425.1   | 438.5   | 434.4   |
| 222.4   | 52.5° | 235.8   | 259.6   | 285.5   | 312.4   | 341.3   | 356.8   | 383.7   | 403.4   | 400.3   |
| 184.1   | 55°   | 195.5   | 226.5   | 253.4   | 280.3   | 313.4   | 328.9   | 352.7   | 378.5   | 373.4   |
| 156.2   | 57.5° | 170.7   | 196.5   | 224.4   | 250.3   | 285.5   | 306.1   | 327.9   | 354.8   | 353.7   |
| 128.3   | 60°   | 142.7   | 168.6   | 199.6   | 221.3   | 258.6   | 287.5   | 307.2   | 335.1   | 337.2   |
| 97.2    | 62.5° | 113.8   | 145.8   | 169.6   | 199.6   | 233.7   | 267.9   | 286.5   | 314.4   | 324.8   |
| 74.5    | 65°   | 84.8    | 120.0   | 146.9   | 176.9   | 208.9   | 247.2   | 263.7   | 291.7   | 302.0   |
| 53.8    | 67.5° | 63.1    | 90.0    | 124.1   | 150.0   | 186.2   | 219.3   | 238.9   | 264.8   | 272.0   |
| 32.1    | 70°   | 47.6    | 69.3    | 103.4   | 126.2   | 163.4   | 190.3   | 210.0   | 229.6   | 238.9   |
| 21.7    | 72.5° | 27.9    | 51.7    | 81.7    | 108.6   | 140.7   | 163.4   | 177.9   | 193.4   | 199.6   |
| 10.3    | 75°   | 19.7    | 39.3    | 64.1    | 90.0    | 113.8   | 132.4   | 145.8   | 159.3   | 165.5   |
| 5.2     | 77.5° | 10.3    | 29.0    | 50.7    | 72.4    | 88.9    | 104.5   | 117.9   | 128.3   | 132.4   |
| 4.1     | 80°   | 6.2     | 20.7    | 41.4    | 56.9    | 68.3    | 81.7    | 95.2    | 102.4   | 101.4   |
| 3.1     | 82.5° | 4.1     | 16.5    | 30.0    | 41.4    | 49.6    | 60.0    | 69.3    | 74.5    | 74.5    |
| 2.1     | 85°   | 3.1     | 11.4    | 20.7    | 32.1    | 33.1    | 41.4    | 43.4    | 48.6    | 49.6    |
| 2.1     | 87.5° | 2.1     | 7.2     | 11.4    | 18.6    | 17.6    | 21.7    | 22.8    | 25.9    | 27.9    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



| 180°    |
|---------|
| 12495.2 |
| 12546.9 |
| 12897.5 |
| 13018.5 |
| 12830.3 |
| 12475.5 |
| 11901.5 |
| 10901.3 |
| 9679.9  |
| 8232.9  |
| 6920.4  |
| 5544.8  |
| 4331.6  |
| 3108.0  |
| 2026.2  |
| 1366.3  |
| 970.2   |
| 717.8   |
| 577.1   |
| 489.2   |
| 433.4   |
| 398.2   |
| 373.4   |
| 352.7   |
| 337.2   |
| 323.7   |
| 301.0   |
| 272.0   |
| 236.9   |
| 197.5   |
| 163.4   |
| 131.4   |
| 100.3   |
| 73.4    |
| 48.6    |
| 26.9    |
| 0.0     |

(END OF REPORT)