

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: P637467

Luminaire Tested: **IFLD-S-SA3A-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637467  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9754.7 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

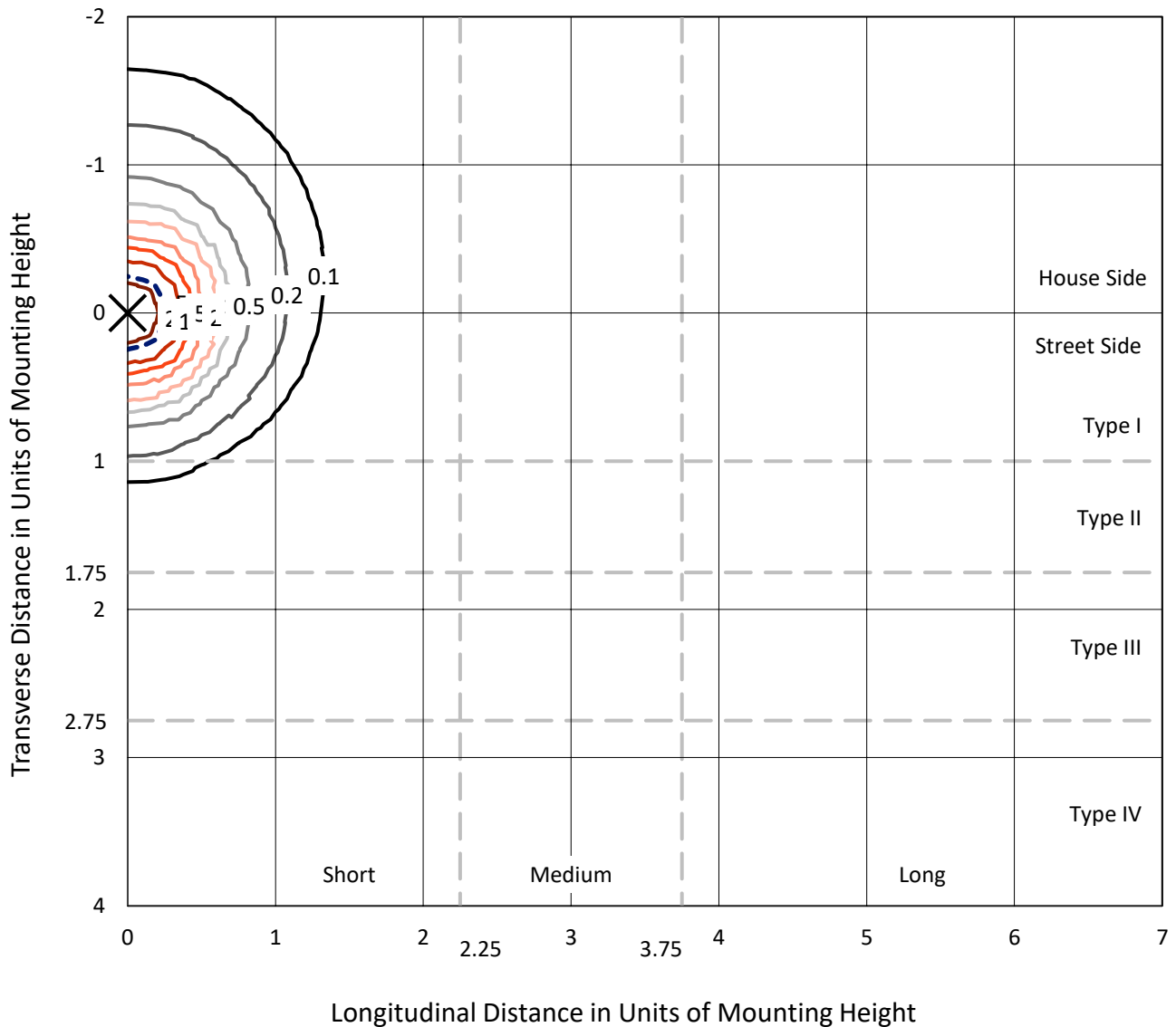
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

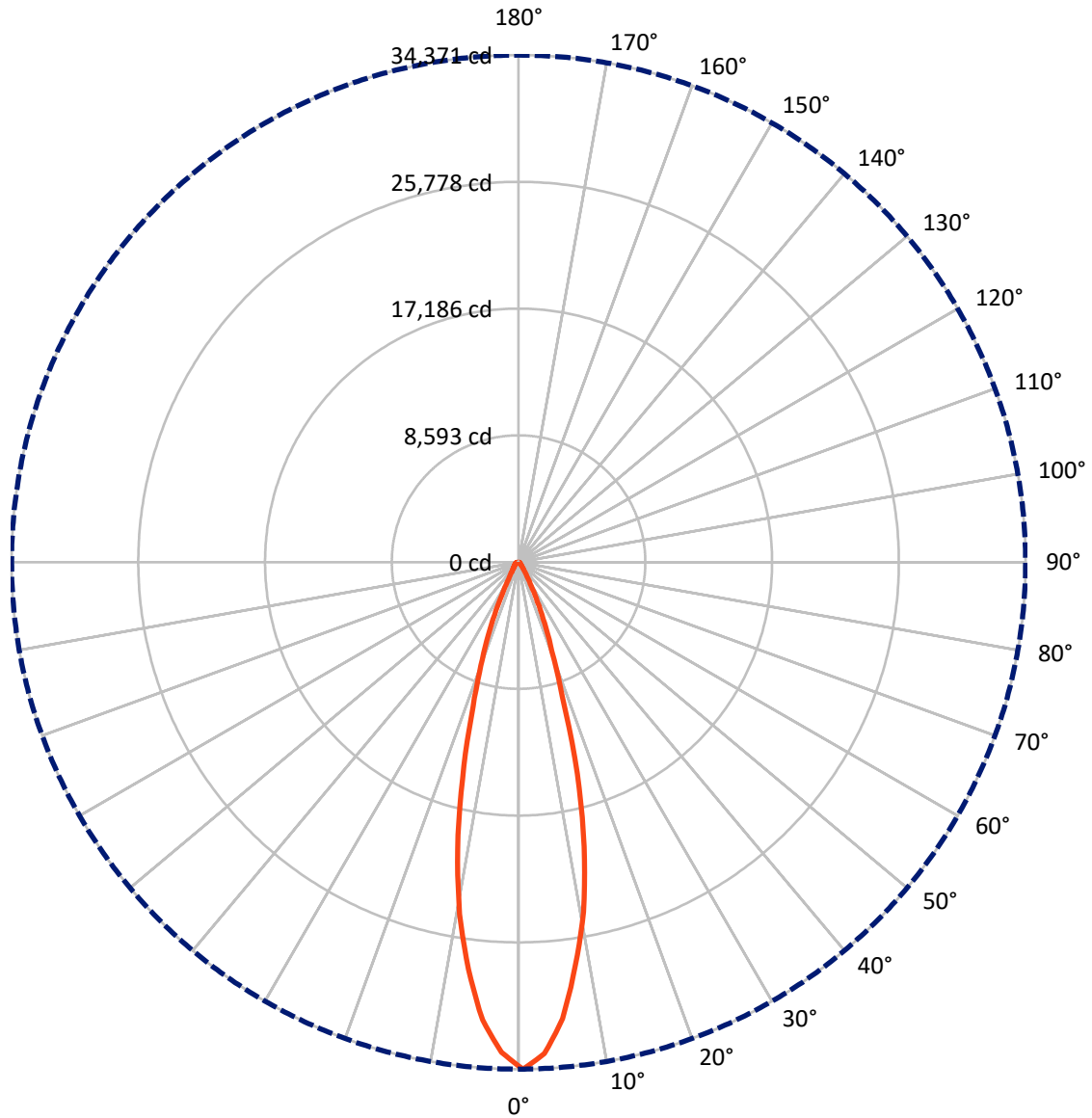
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 85.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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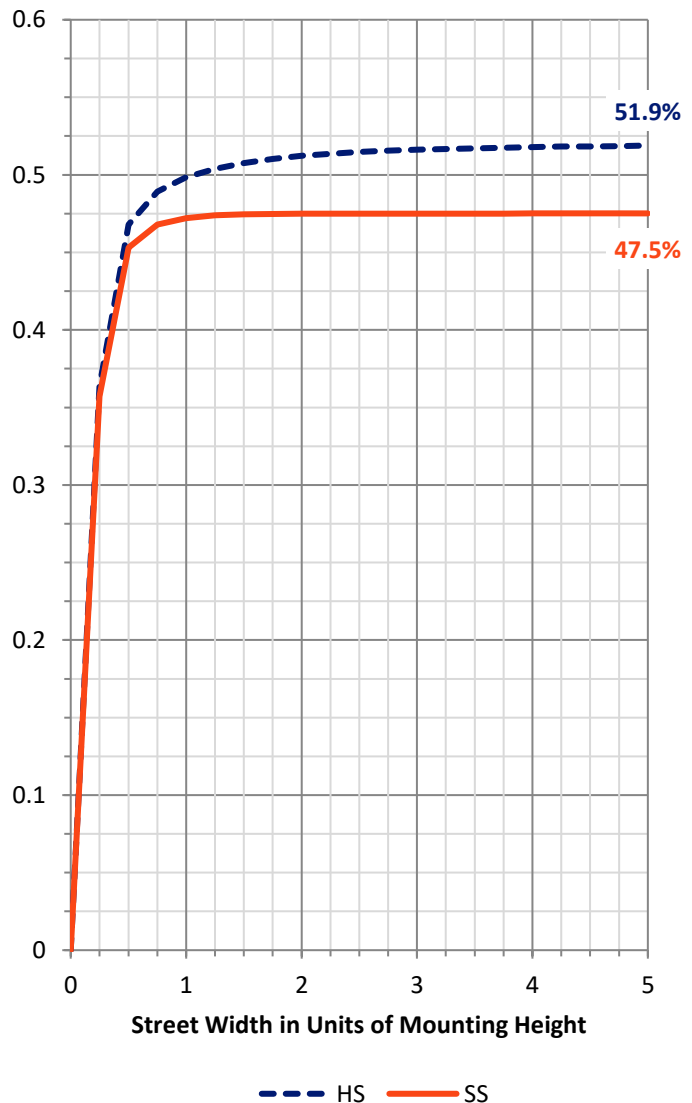
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 5143.3   | 0.0    | 5143.3 |
|                    | % Fixture | 52.7     | 0.0    | 52.7   |
| <b>Street Side</b> | Lumens    | 4611.4   | 0.0    | 4611.4 |
|                    | % Fixture | 47.3     | 0.0    | 47.3   |
| <b>Total</b>       | Lumens    | 9754.7   | 0.0    | 9754.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2774.1 | 28.4      |
| 10°-20°   | 4201.3 | 43.1      |
| 20°-30°   | 1773.0 | 18.2      |
| 30°-40°   | 462.4  | 4.7       |
| 40°-50°   | 233.9  | 2.4       |
| 50°-60°   | 152.9  | 1.6       |
| 60°-70°   | 91.6   | 0.9       |
| 70°-80°   | 48.2   | 0.5       |
| 80°-90°   | 17.4   | 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°    | 9754.7 | 100.0     |
| 0°-180°   | 9754.7 | 100.0     |



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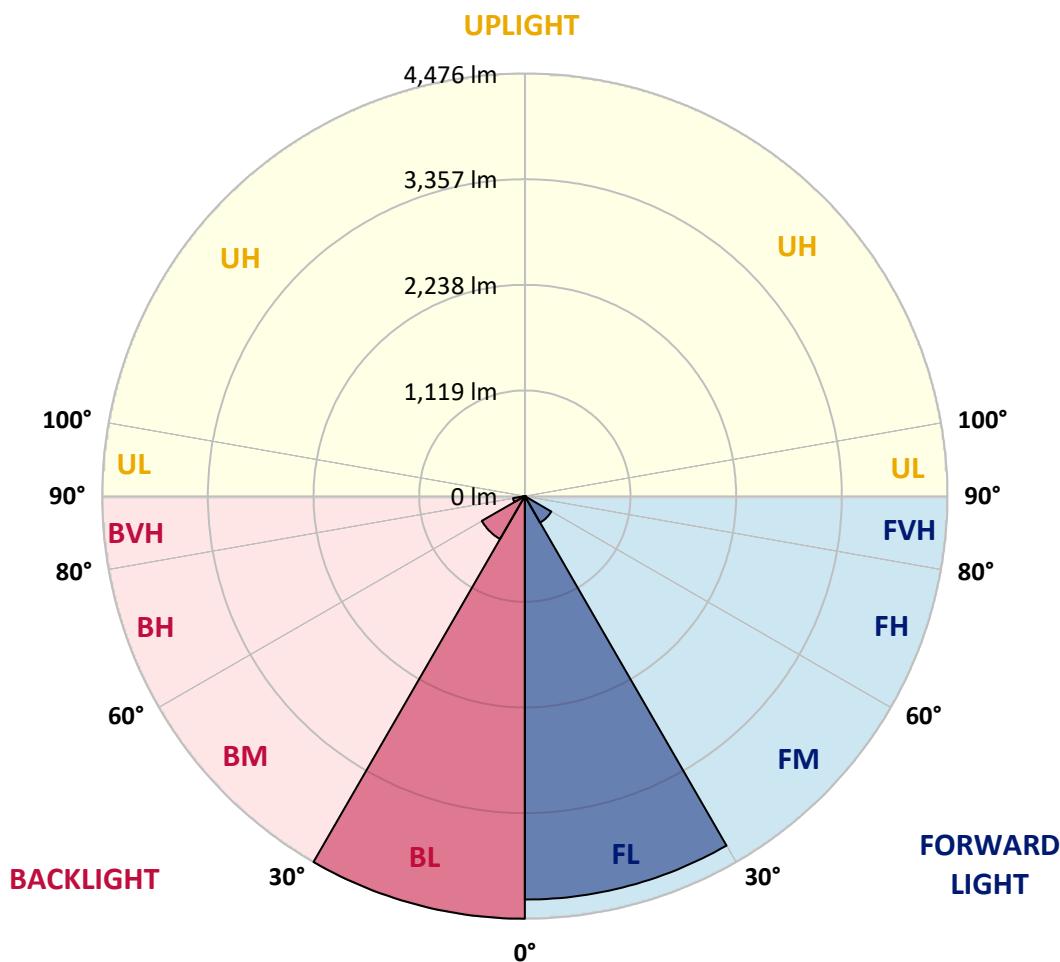
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 4272.5 | 43.8      |                         |      |        |
| FM (30°-60°)   | 323.6  | 3.3       |                         |      |        |
| FH (60°-80°)   | 13.2   | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.1    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 4475.9 | 45.9      | B4/5000                 |      |        |
| BM (30°-60°)   | 525.6  | 5.4       | B1/1000                 |      |        |
| BH (60°-80°)   | 126.6  | 1.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 15.3   | 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 V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 34371.3 | 34371.3 | 34371.3 | 34371.3 | 34371.3 | 34371.3 | 34371.3 | 34371.3 | 34371.3 | 34371.3 |
| 2.5°  | 33370.0 | 33388.6 | 33319.6 | 33468.6 | 33352.5 | 33663.6 | 33509.1 | 33750.1 | 33669.1 | 33803.8 |
| 5°    | 31091.4 | 31060.8 | 31041.1 | 31272.2 | 31205.4 | 31539.5 | 31325.9 | 31255.8 | 31472.7 | 31433.2 |
| 7.5°  | 27650.6 | 27731.7 | 27685.6 | 27745.9 | 27779.9 | 28161.1 | 28281.6 | 28187.4 | 28190.7 | 28245.4 |
| 10°   | 24123.2 | 24003.8 | 23834.0 | 23946.8 | 24185.6 | 24352.2 | 24285.3 | 24423.4 | 24392.7 | 24523.0 |
| 12.5° | 19783.0 | 19877.2 | 19781.9 | 19681.1 | 20098.5 | 20052.5 | 20168.6 | 20244.2 | 20054.6 | 20476.4 |
| 15°   | 14901.6 | 14950.9 | 15067.0 | 15059.3 | 15380.3 | 15444.9 | 15429.6 | 15509.6 | 15361.7 | 15431.8 |
| 17.5° | 9573.3  | 9739.8  | 10052.0 | 10580.0 | 11173.7 | 11242.7 | 11225.2 | 11159.5 | 11088.3 | 11009.4 |
| 20°   | 6430.4  | 6412.8  | 6525.7  | 6680.1  | 7909.2  | 8234.6  | 8224.7  | 8018.8  | 7720.8  | 7663.9  |
| 22.5° | 4504.5  | 4537.4  | 4522.1  | 4675.4  | 4929.6  | 5826.8  | 5716.1  | 5506.9  | 5409.4  | 5345.9  |
| 25°   | 2963.2  | 2951.2  | 3027.9  | 3073.9  | 3291.9  | 3401.4  | 3789.2  | 3711.4  | 3561.4  | 3577.8  |
| 27.5° | 1806.4  | 1821.8  | 1850.2  | 1889.7  | 2044.1  | 2009.1  | 2230.4  | 2259.9  | 2211.7  | 2160.3  |
| 30°   | 1108.6  | 1119.6  | 1142.6  | 1171.1  | 1224.7  | 1186.4  | 1247.7  | 1354.0  | 1336.5  | 1300.3  |
| 32.5° | 752.6   | 753.7   | 770.1   | 781.1   | 774.5   | 738.3   | 758.1   | 858.8   | 861.0   | 857.7   |
| 35°   | 541.2   | 541.2   | 556.5   | 565.3   | 546.6   | 517.1   | 520.3   | 582.8   | 610.2   | 615.7   |
| 37.5° | 373.6   | 374.6   | 400.9   | 427.2   | 406.4   | 398.7   | 385.6   | 427.2   | 471.0   | 477.6   |
| 40°   | 283.7   | 282.6   | 295.8   | 315.5   | 317.7   | 303.4   | 307.8   | 334.1   | 379.0   | 384.5   |
| 42.5° | 230.0   | 231.1   | 237.7   | 235.5   | 236.6   | 255.2   | 261.8   | 273.9   | 315.5   | 325.4   |
| 45°   | 193.9   | 195.0   | 198.3   | 187.3   | 182.9   | 211.4   | 220.2   | 226.8   | 261.8   | 273.9   |
| 47.5° | 159.9   | 162.1   | 165.4   | 153.4   | 151.2   | 169.8   | 185.1   | 191.7   | 222.4   | 235.5   |
| 50°   | 115.0   | 117.2   | 129.3   | 122.7   | 129.3   | 133.6   | 154.5   | 164.3   | 185.1   | 202.7   |
| 52.5° | 83.3    | 85.4    | 88.7    | 89.8    | 106.3   | 108.5   | 123.8   | 139.1   | 149.0   | 168.7   |
| 55°   | 65.7    | 67.9    | 65.7    | 63.5    | 77.8    | 89.8    | 95.3    | 111.7   | 119.4   | 142.4   |
| 57.5° | 37.2    | 39.4    | 42.7    | 49.3    | 51.5    | 69.0    | 74.5    | 88.7    | 95.3    | 117.2   |
| 60°   | 6.6     | 7.7     | 12.1    | 29.6    | 36.2    | 43.8    | 55.9    | 67.9    | 76.7    | 92.0    |
| 62.5° | 1.1     | 1.1     | 2.2     | 6.6     | 20.8    | 30.7    | 40.5    | 48.2    | 55.9    | 70.1    |
| 65°   | 0.0     | 0.0     | 1.1     | 2.2     | 5.5     | 17.5    | 21.9    | 28.5    | 38.3    | 50.4    |
| 67.5° | 0.0     | 0.0     | 1.1     | 2.2     | 3.3     | 6.6     | 9.9     | 17.5    | 21.9    | 34.0    |
| 70°   | 0.0     | 0.0     | 1.1     | 2.2     | 3.3     | 4.4     | 5.5     | 7.7     | 13.1    | 20.8    |
| 72.5° | 0.0     | 0.0     | 1.1     | 2.2     | 3.3     | 4.4     | 5.5     | 6.6     | 6.6     | 13.1    |
| 75°   | 0.0     | 0.0     | 1.1     | 2.2     | 3.3     | 5.5     | 6.6     | 6.6     | 5.5     | 5.5     |
| 77.5° | 0.0     | 0.0     | 1.1     | 2.2     | 4.4     | 6.6     | 7.7     | 6.6     | 4.4     | 4.4     |
| 80°   | 0.0     | 0.0     | 2.2     | 3.3     | 5.5     | 7.7     | 9.9     | 7.7     | 4.4     | 2.2     |
| 82.5° | 0.0     | 0.0     | 2.2     | 4.4     | 5.5     | 8.8     | 12.1    | 9.9     | 4.4     | 2.2     |
| 85°   | 0.0     | 0.0     | 1.1     | 3.3     | 6.6     | 8.8     | 12.1    | 8.8     | 4.4     | 1.1     |
| 87.5° | 0.0     | 0.0     | 1.1     | 1.1     | 2.2     | 3.3     | 6.6     | 5.5     | 2.2     | 1.1     |
| 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°           |
|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>34371.3</b> | 0°    | <b>34371.3</b> | <b>34371.3</b> | <b>34371.3</b> | <b>34371.3</b> | <b>34371.3</b> | <b>34371.3</b> | <b>34371.3</b> | <b>34371.3</b> | <b>34371.3</b> |
| 33548.6        | 2.5°  | 33741.4        | 33916.6        | 33952.8        | 33904.6        | 33974.7        | 33848.7        | 33752.3        | 33502.6        | 33352.5        |
| 31421.2        | 5°    | 31623.8        | 31597.5        | 31780.5        | 31840.7        | 31833.1        | 31736.7        | 31601.9        | 31450.8        | 31304.0        |
| 28139.2        | 7.5°  | 28314.4        | 28348.4        | 28514.9        | 28621.2        | 28567.5        | 28447.0        | 28353.9        | 28240.0        | 28141.4        |
| 24570.2        | 10°   | 24794.7        | 24561.4        | 24768.4        | 24768.4        | 24911.9        | 24571.2        | 24603.0        | 24316.0        | 24329.1        |
| 20468.7        | 12.5° | 20538.8        | 20623.2        | 20657.2        | 20754.7        | 20587.0        | 20406.3        | 20185.0        | 20141.2        | 20004.3        |
| 15298.1        | 15°   | 15518.3        | 15759.3        | 15552.3        | 15906.1        | 15735.2        | 15546.8        | 15512.9        | 15173.3        | 15280.6        |
| 11095.9        | 17.5° | 11041.2        | 11307.4        | 11390.6        | 11593.3        | 11437.7        | 11326.0        | 11184.7        | 11081.7        | 11074.0        |
| 7767.9         | 20°   | 7829.3         | 8096.6         | 8157.9         | 8401.1         | 8383.6         | 8348.5         | 8229.1         | 8098.8         | 7957.4         |
| 5287.8         | 22.5° | 5367.8         | 5585.8         | 5789.5         | 6117.1         | 6111.6         | 6008.6         | 5996.6         | 5812.5         | 5815.8         |
| 3572.3         | 25°   | 3609.6         | 3768.4         | 3816.6         | 4151.8         | 4189.1         | 4178.1         | 4115.7         | 3944.8         | 4009.4         |
| 2182.2         | 27.5° | 2184.4         | 2323.5         | 2486.7         | 2605.0         | 2716.7         | 2699.2         | 2636.8         | 2541.5         | 2499.8         |
| 1311.3         | 30°   | 1346.3         | 1408.8         | 1469.0         | 1611.4         | 1678.3         | 1713.3         | 1683.7         | 1595.0         | 1601.6         |
| 863.2          | 32.5° | 881.8          | 934.4          | 978.2          | 1068.1         | 1103.1         | 1167.8         | 1155.7         | 1137.1         | 1115.2         |
| 621.1          | 35°   | 643.0          | 681.4          | 711.0          | 752.6          | 797.5          | 852.3          | 861.0          | 853.4          | 844.6          |
| 479.8          | 37.5° | 490.8          | 530.2          | 564.2          | 581.7          | 616.7          | 659.5          | 683.6          | 682.5          | 675.9          |
| 391.1          | 40°   | 398.7          | 428.3          | 459.0          | 482.0          | 506.1          | 537.9          | 567.5          | 570.7          | 570.7          |
| 328.6          | 42.5° | 333.0          | 358.2          | 388.9          | 413.0          | 430.5          | 460.1          | 490.8          | 493.0          | 490.8          |
| 278.2          | 45°   | 284.8          | 306.7          | 336.3          | 364.8          | 379.0          | 400.9          | 430.5          | 437.1          | 432.7          |
| 238.8          | 47.5° | 247.6          | 267.3          | 292.5          | 323.2          | 338.5          | 358.2          | 385.6          | 393.3          | 392.2          |
| 205.9          | 50°   | 212.5          | 235.5          | 260.7          | 285.9          | 305.6          | 324.3          | 350.5          | 359.3          | 356.0          |
| 175.3          | 52.5° | 187.3          | 208.1          | 230.0          | 257.4          | 280.4          | 296.9          | 317.7          | 333.0          | 328.6          |
| 147.9          | 55°   | 156.7          | 181.8          | 204.9          | 227.9          | 256.3          | 273.9          | 293.6          | 312.2          | 307.8          |
| 124.9          | 57.5° | 135.8          | 156.7          | 182.9          | 203.8          | 232.2          | 253.1          | 272.8          | 292.5          | 291.4          |
| 101.9          | 60°   | 113.9          | 135.8          | 161.0          | 182.9          | 209.2          | 232.2          | 252.0          | 273.9          | 276.1          |
| 76.7           | 62.5° | 89.8           | 116.1          | 138.0          | 163.2          | 189.5          | 214.7          | 232.2          | 254.1          | 257.4          |
| 58.1           | 65°   | 67.9           | 95.3           | 119.4          | 143.5          | 169.8          | 197.2          | 212.5          | 231.1          | 234.4          |
| 42.7           | 67.5° | 50.4           | 73.4           | 101.9          | 123.8          | 151.2          | 177.5          | 191.7          | 207.0          | 212.5          |
| 26.3           | 70°   | 38.3           | 55.9           | 85.4           | 106.3          | 134.7          | 155.6          | 170.9          | 184.0          | 188.4          |
| 17.5           | 72.5° | 24.1           | 43.8           | 69.0           | 90.9           | 116.1          | 134.7          | 145.7          | 153.4          | 159.9          |
| 9.9            | 75°   | 16.4           | 34.0           | 55.9           | 77.8           | 96.4           | 110.6          | 120.5          | 127.1          | 132.6          |
| 4.4            | 77.5° | 9.9            | 26.3           | 46.0           | 64.6           | 76.7           | 87.6           | 97.5           | 101.9          | 105.2          |
| 3.3            | 80°   | 5.5            | 19.7           | 38.3           | 52.6           | 60.3           | 67.9           | 75.6           | 81.1           | 83.3           |
| 2.2            | 82.5° | 3.3            | 15.3           | 30.7           | 40.5           | 43.8           | 51.5           | 59.2           | 62.4           | 62.4           |
| 1.1            | 85°   | 2.2            | 11.0           | 20.8           | 29.6           | 31.8           | 37.2           | 39.4           | 41.6           | 43.8           |
| 1.1            | 87.5° | 2.2            | 6.6            | 13.1           | 16.4           | 17.5           | 19.7           | 20.8           | 23.0           | 25.2           |
| 0.0            | 90°   | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |





|                |
|----------------|
| 180°           |
| <u>34371.3</u> |
| 33241.8        |
| 31139.6        |
| 27807.2        |
| 24201.0        |
| 19879.4        |
| 15173.3        |
| 10870.3        |
| 7896.1         |
| 5752.3         |
| 3907.5         |
| 2463.7         |
| 1573.1         |
| 1107.5         |
| 841.3          |
| 672.6          |
| 564.2          |
| 488.6          |
| 432.7          |
| 390.0          |
| 353.8          |
| 327.5          |
| 310.0          |
| 292.5          |
| 277.2          |
| 259.6          |
| 237.7          |
| 214.7          |
| 190.6          |
| 158.8          |
| 131.5          |
| 104.1          |
| 81.1           |
| 61.3           |
| 42.7           |
| 24.1           |
| 0.0            |

(END OF REPORT)