

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: P636521

Luminaire Tested: **IFLD-M-SA4B-940-U-55-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636521  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-940-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (64) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13656.6 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 166.1  
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

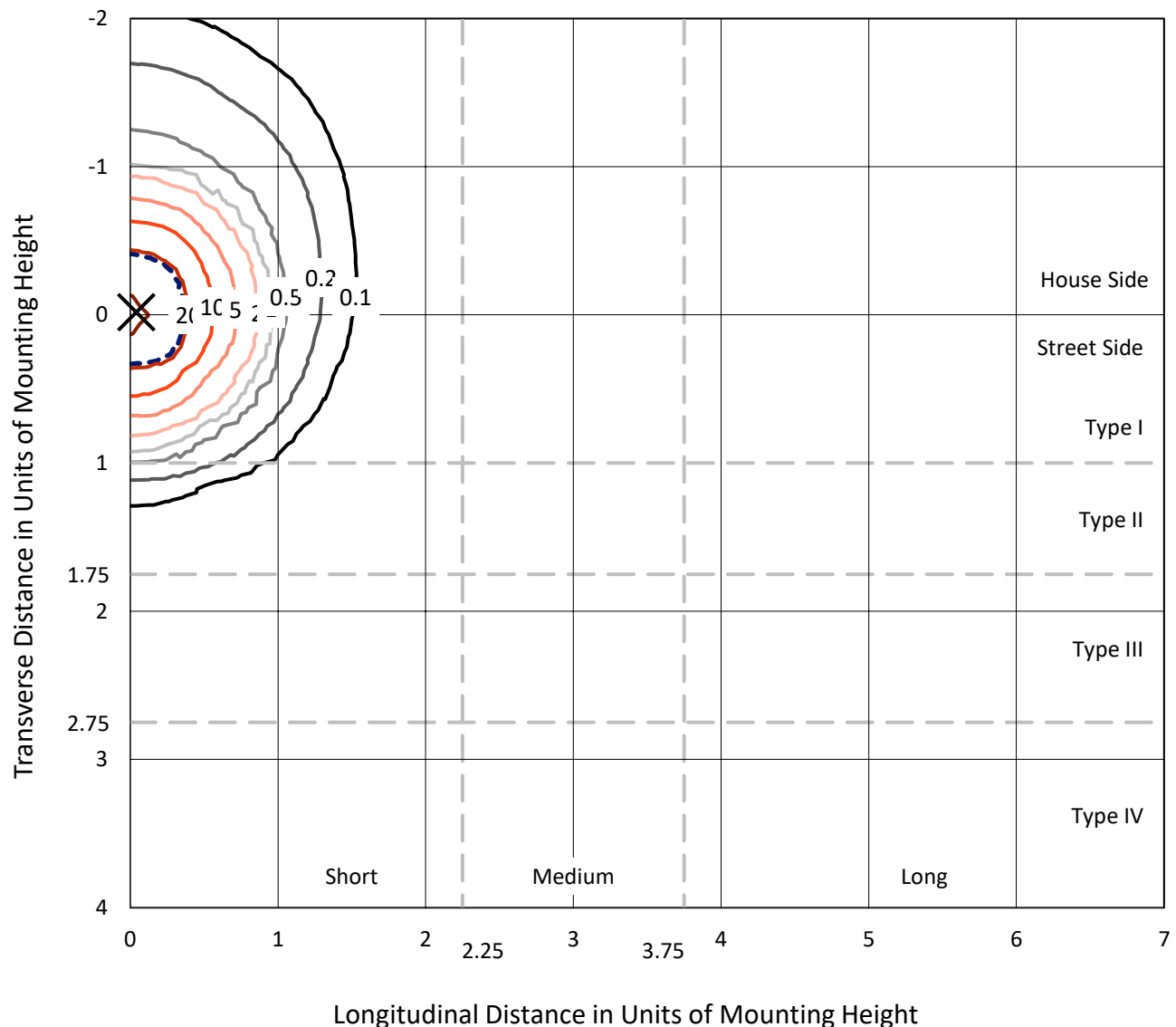


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

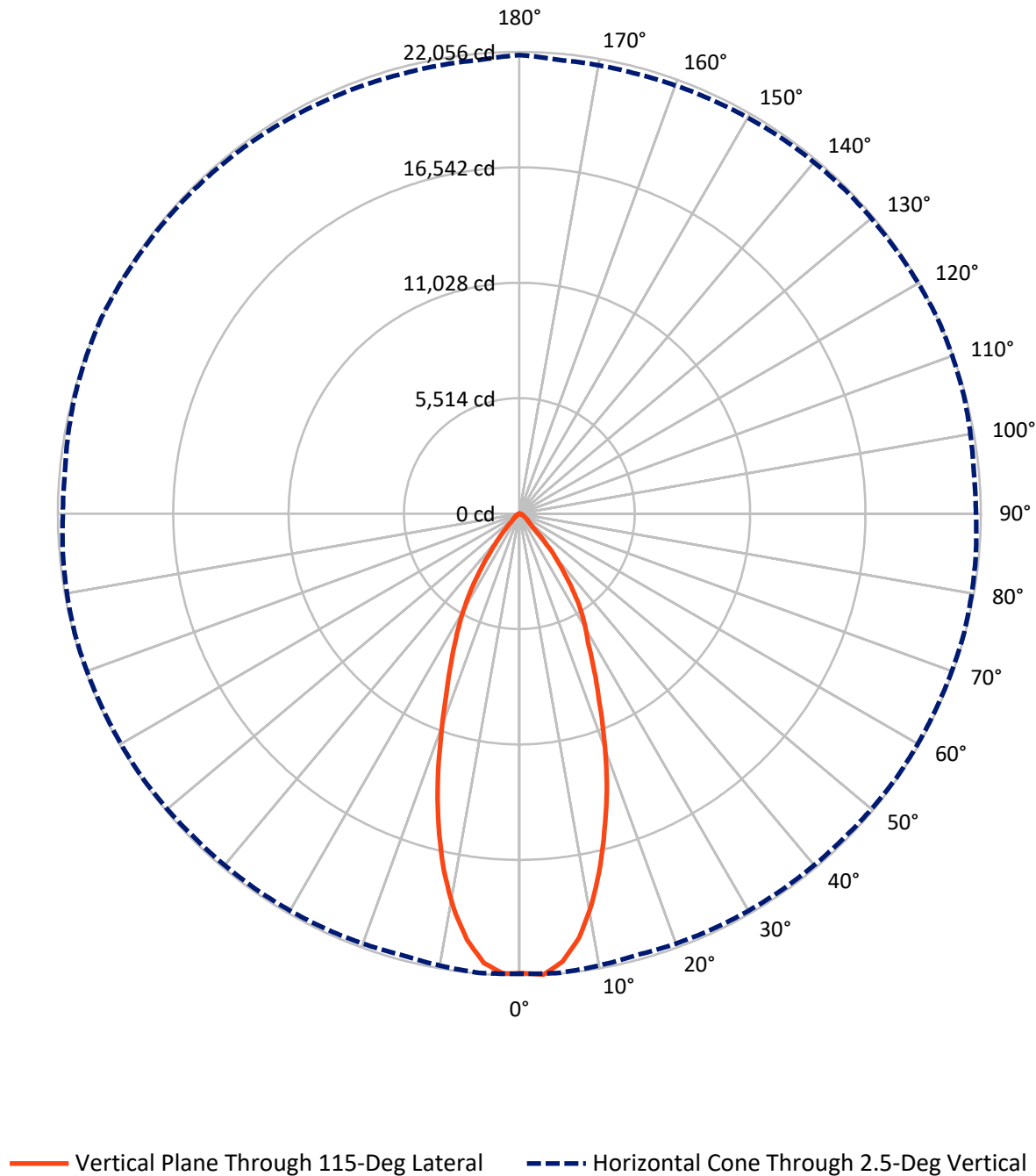


Based on 20 foot mounting height. Maximum calculated value = 54.9 fc

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    | 7536.9   | 0.0    | 7536.9  |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 6119.8   | 0.0    | 6119.8  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 13656.6  | 0.0    | 13656.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1969.0  | 14.4      |
| 10°-20°   | 4161.5  | 30.5      |
| 20°-30°   | 3756.0  | 27.5      |
| 30°-40°   | 2485.6  | 18.2      |
| 40°-50°   | 744.6   | 5.5       |
| 50°-60°   | 298.7   | 2.2       |
| 60°-70°   | 154.7   | 1.1       |
| 70°-80°   | 67.2    | 0.5       |
| 80°-90°   | 19.5    | 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°    | 13656.6 | 100.0     |
| 0°-180°   | 13656.6 | 100.0     |

**Coefficient of Utilization**



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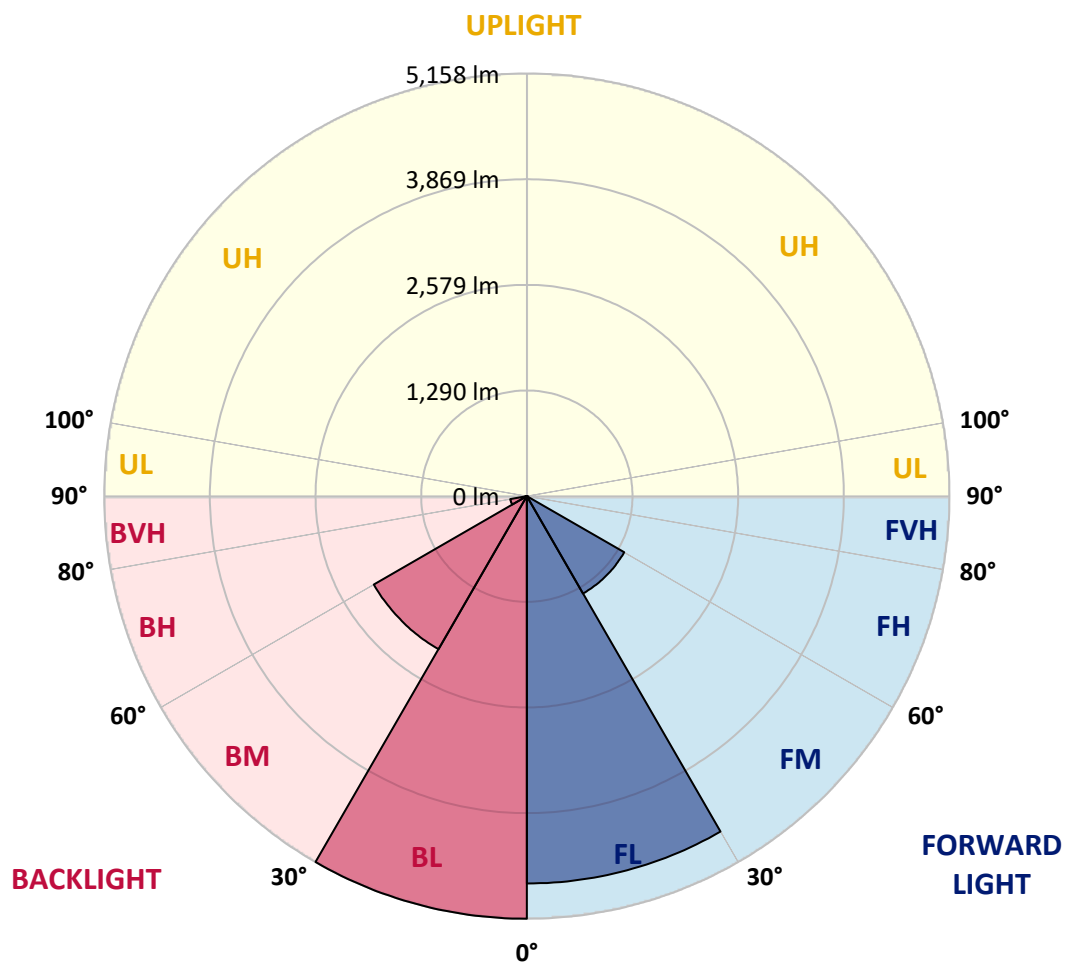
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 4728.0 | 34.6      |                         |      |        |
| FM   | (30°-60°)   | 1371.9 | 10.0      |                         |      |        |
| FH   | (60°-80°)   | 17.0   | 0.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 2.8    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 5158.4 | 37.8      | B5                      |      |        |
| BM   | (30°-60°)   | 2156.9 | 15.8      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 204.8  | 1.5       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 16.7   | 0.1       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G1**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 |
| 2.5°  | 21980.9 | 22020.0 | 21824.5 | 21891.6 | 21919.5 | 21927.9 | 21997.7 | 21986.5 | 22006.1 | 21902.7 |
| 5°    | 21690.5 | 21615.1 | 21469.8 | 21472.6 | 21464.2 | 21386.0 | 21545.2 | 21534.1 | 21500.6 | 21377.7 |
| 7.5°  | 20701.8 | 20810.7 | 20537.0 | 20531.4 | 20525.8 | 20430.8 | 20640.3 | 20511.8 | 20539.8 | 20363.8 |
| 10°   | 19255.0 | 19268.9 | 19025.9 | 19003.6 | 19023.2 | 18900.3 | 19143.3 | 19093.0 | 19146.0 | 18961.7 |
| 12.5° | 17481.4 | 17559.6 | 17291.5 | 17252.4 | 17330.6 | 17157.4 | 17352.9 | 17378.1 | 17299.9 | 17274.7 |
| 15°   | 13710.9 | 13917.5 | 14425.9 | 15202.3 | 15403.4 | 15258.2 | 15414.6 | 15411.8 | 15445.3 | 15255.4 |
| 17.5° | 10445.8 | 10465.4 | 10345.3 | 10716.8 | 12867.4 | 13565.6 | 13599.1 | 13333.8 | 13132.7 | 13062.9 |
| 20°   | 9119.2  | 9186.2  | 9077.3  | 9108.0  | 9451.5  | 11498.8 | 11577.0 | 11177.6 | 10834.1 | 10806.1 |
| 22.5° | 8063.4  | 8105.3  | 8027.1  | 8052.2  | 8069.0  | 8309.2  | 9669.4  | 9317.5  | 9152.7  | 9027.0  |
| 25°   | 7169.6  | 7169.6  | 7127.7  | 7136.1  | 7119.4  | 6764.7  | 7462.9  | 7865.1  | 7770.1  | 7725.5  |
| 27.5° | 6354.1  | 6365.3  | 6312.2  | 6342.9  | 6139.0  | 5566.5  | 5482.7  | 6669.7  | 6569.1  | 6488.2  |
| 30°   | 5580.4  | 5616.7  | 5566.5  | 5583.2  | 5139.1  | 4669.9  | 4429.7  | 5563.7  | 5689.4  | 5667.0  |
| 32.5° | 4200.7  | 4365.5  | 4770.5  | 4787.2  | 4183.9  | 3823.6  | 3717.5  | 4466.0  | 4943.6  | 4901.7  |
| 35°   | 2603.1  | 2594.7  | 2611.5  | 3415.8  | 3209.2  | 2963.4  | 3002.5  | 3373.9  | 3913.0  | 3893.4  |
| 37.5° | 1985.8  | 1983.0  | 2013.8  | 1932.8  | 2103.1  | 2248.4  | 2279.1  | 2279.1  | 2857.2  | 2860.0  |
| 40°   | 1505.4  | 1494.3  | 1491.5  | 1363.0  | 1142.3  | 1687.0  | 1636.7  | 1594.8  | 1985.8  | 2027.7  |
| 42.5° | 960.8   | 994.3   | 969.2   | 829.5   | 745.7   | 921.7   | 1027.8  | 994.3   | 1226.1  | 1256.9  |
| 45°   | 536.3   | 536.3   | 513.9   | 435.7   | 432.9   | 466.4   | 586.5   | 547.4   | 628.4   | 670.3   |
| 47.5° | 259.7   | 254.2   | 279.3   | 343.5   | 357.5   | 346.3   | 419.0   | 435.7   | 474.8   | 513.9   |
| 50°   | 209.5   | 209.5   | 198.3   | 178.8   | 296.1   | 284.9   | 310.0   | 332.4   | 354.7   | 388.2   |
| 52.5° | 176.0   | 176.0   | 162.0   | 150.8   | 170.4   | 217.9   | 220.6   | 262.5   | 259.7   | 307.2   |
| 55°   | 89.4    | 92.2    | 131.3   | 131.3   | 114.5   | 178.8   | 181.5   | 212.3   | 217.9   | 257.0   |
| 57.5° | 8.4     | 11.2    | 16.8    | 81.0    | 89.4    | 97.8    | 136.9   | 156.4   | 181.5   | 198.3   |
| 60°   | 2.8     | 2.8     | 5.6     | 11.2    | 53.1    | 67.0    | 86.6    | 103.3   | 125.7   | 164.8   |
| 62.5° | 0.0     | 0.0     | 2.8     | 5.6     | 11.2    | 41.9    | 47.5    | 53.1    | 75.4    | 103.3   |
| 65°   | 0.0     | 0.0     | 2.8     | 2.8     | 5.6     | 14.0    | 19.6    | 33.5    | 47.5    | 64.2    |
| 67.5° | 0.0     | 0.0     | 2.8     | 2.8     | 5.6     | 8.4     | 11.2    | 16.8    | 22.3    | 41.9    |
| 70°   | 0.0     | 0.0     | 2.8     | 2.8     | 5.6     | 8.4     | 8.4     | 11.2    | 14.0    | 19.6    |
| 72.5° | 0.0     | 0.0     | 2.8     | 2.8     | 5.6     | 11.2    | 8.4     | 8.4     | 11.2    | 14.0    |
| 75°   | 0.0     | 0.0     | 2.8     | 2.8     | 5.6     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 77.5° | 0.0     | 0.0     | 2.8     | 2.8     | 5.6     | 8.4     | 8.4     | 8.4     | 5.6     | 5.6     |
| 80°   | 0.0     | 0.0     | 2.8     | 2.8     | 5.6     | 8.4     | 11.2    | 11.2    | 5.6     | 5.6     |
| 82.5° | 0.0     | 0.0     | 2.8     | 5.6     | 5.6     | 14.0    | 16.8    | 14.0    | 5.6     | 2.8     |
| 85°   | 0.0     | 0.0     | 2.8     | 2.8     | 8.4     | 14.0    | 14.0    | 8.4     | 5.6     | 2.8     |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.8     | 2.8     | 5.6     | 8.4     | 8.4     | 2.8     | 2.8     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 21953.0 | 0°    | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 | 21953.0 |
| 21819.0 | 2.5°  | 21807.8 | 21978.2 | 22056.4 | 21975.4 | 21936.3 | 21880.4 | 21799.4 | 21743.5 | 21754.7 |
| 21310.6 | 5°    | 21263.1 | 21441.9 | 21503.3 | 21433.5 | 21374.9 | 21344.1 | 21330.2 | 21358.1 | 21430.7 |
| 20288.4 | 7.5°  | 20282.8 | 20397.3 | 20464.3 | 20430.8 | 20349.8 | 20442.0 | 20467.1 | 20450.4 | 20556.5 |
| 18905.8 | 10°   | 18911.4 | 19037.1 | 18975.7 | 18989.6 | 18894.7 | 18942.2 | 18928.2 | 18989.6 | 19095.8 |
| 17255.2 | 12.5° | 17143.5 | 17263.6 | 17216.1 | 17207.7 | 17107.2 | 17196.5 | 17140.7 | 17207.7 | 17347.4 |
| 15177.2 | 15°   | 15286.1 | 15361.5 | 15330.8 | 15283.3 | 15193.9 | 15224.7 | 15397.8 | 15386.7 | 15448.1 |
| 13021.0 | 17.5° | 12965.1 | 13328.2 | 13526.5 | 13568.4 | 13495.8 | 13557.2 | 13680.1 | 13649.4 | 13789.1 |
| 10747.5 | 20°   | 10727.9 | 11093.8 | 11582.6 | 11979.2 | 11987.6 | 11996.0 | 12074.2 | 12093.7 | 12213.8 |
| 9029.8  | 22.5° | 8990.7  | 9250.4  | 9775.5  | 10300.6 | 10663.7 | 10739.1 | 10730.7 | 10758.7 | 10792.2 |
| 7664.0  | 25°   | 7644.5  | 7834.4  | 8314.8  | 8677.9  | 9314.7  | 9526.9  | 9588.4  | 9526.9  | 9546.5  |
| 6460.2  | 27.5° | 6532.8  | 6823.3  | 6982.5  | 7370.7  | 7993.6  | 8485.1  | 8465.6  | 8429.3  | 8434.9  |
| 5622.3  | 30°   | 5619.5  | 5932.3  | 6167.0  | 6284.3  | 6753.5  | 7462.9  | 7535.5  | 7432.2  | 7435.0  |
| 4882.2  | 32.5° | 4851.4  | 4949.2  | 5295.5  | 5390.5  | 5692.1  | 6337.3  | 6585.9  | 6507.7  | 6493.7  |
| 3904.6  | 35°   | 4019.1  | 4072.2  | 4231.4  | 4418.5  | 4597.3  | 5086.1  | 5496.6  | 5424.0  | 5460.3  |
| 2871.2  | 37.5° | 2860.0  | 3077.9  | 3231.5  | 3385.1  | 3513.6  | 3820.8  | 4315.2  | 4248.2  | 4284.5  |
| 2033.3  | 40°   | 2016.5  | 2114.3  | 2379.6  | 2446.7  | 2636.6  | 2779.0  | 3198.0  | 3175.6  | 3220.3  |
| 1262.4  | 42.5° | 1240.1  | 1309.9  | 1444.0  | 1508.2  | 1636.7  | 1717.7  | 1963.5  | 1991.4  | 2050.1  |
| 698.3   | 45°   | 703.8   | 734.6   | 826.7   | 896.6   | 991.5   | 1025.0  | 1111.6  | 1150.7  | 1184.2  |
| 541.8   | 47.5° | 536.3   | 569.8   | 631.2   | 692.7   | 770.9   | 798.8   | 860.2   | 918.9   | 949.6   |
| 419.0   | 50°   | 438.5   | 469.2   | 533.5   | 583.7   | 661.9   | 687.1   | 737.4   | 801.6   | 840.7   |
| 318.4   | 52.5° | 332.4   | 377.1   | 455.3   | 508.3   | 589.3   | 620.0   | 667.5   | 731.8   | 768.1   |
| 262.5   | 55°   | 273.7   | 307.2   | 377.1   | 449.7   | 525.1   | 567.0   | 597.7   | 675.9   | 715.0   |
| 215.1   | 57.5° | 234.6   | 259.7   | 304.4   | 391.0   | 455.3   | 516.7   | 541.8   | 614.5   | 653.6   |
| 170.4   | 60°   | 178.8   | 217.9   | 257.0   | 324.0   | 396.6   | 460.8   | 488.8   | 553.0   | 583.7   |
| 122.9   | 62.5° | 148.0   | 173.2   | 223.4   | 259.7   | 340.7   | 407.8   | 435.7   | 494.4   | 516.7   |
| 81.0    | 65°   | 103.3   | 139.7   | 187.1   | 209.5   | 284.9   | 349.1   | 388.2   | 432.9   | 455.3   |
| 47.5    | 67.5° | 61.4    | 103.3   | 148.0   | 178.8   | 231.8   | 296.1   | 338.0   | 379.8   | 399.4   |
| 27.9    | 70°   | 39.1    | 81.0    | 117.3   | 150.8   | 181.5   | 243.0   | 293.3   | 329.6   | 321.2   |
| 16.8    | 72.5° | 22.3    | 50.3    | 86.6    | 122.9   | 150.8   | 203.9   | 251.4   | 279.3   | 198.3   |
| 11.2    | 75°   | 14.0    | 36.3    | 72.6    | 100.5   | 122.9   | 162.0   | 206.7   | 212.3   | 122.9   |
| 5.6     | 77.5° | 11.2    | 27.9    | 55.9    | 81.0    | 83.8    | 120.1   | 145.2   | 164.8   | 92.2    |
| 5.6     | 80°   | 5.6     | 22.3    | 47.5    | 67.0    | 53.1    | 83.8    | 111.7   | 128.5   | 72.6    |
| 2.8     | 82.5° | 5.6     | 14.0    | 36.3    | 47.5    | 39.1    | 64.2    | 81.0    | 92.2    | 61.4    |
| 2.8     | 85°   | 2.8     | 11.2    | 19.6    | 27.9    | 27.9    | 41.9    | 36.3    | 44.7    | 39.1    |
| 2.8     | 87.5° | 2.8     | 5.6     | 11.2    | 14.0    | 11.2    | 16.8    | 19.6    | 19.6    | 16.8    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 21953.0 |
| 21905.5 |
| 21581.5 |
| 20662.6 |
| 19137.7 |
| 17372.5 |
| 15462.1 |
| 13766.7 |
| 12188.7 |
| 10730.7 |
| 9515.8  |
| 8443.3  |
| 7437.8  |
| 6527.3  |
| 5493.8  |
| 4315.2  |
| 3237.1  |
| 2117.1  |
| 1181.4  |
| 963.6   |
| 857.5   |
| 793.2   |
| 726.2   |
| 670.3   |
| 589.3   |
| 519.5   |
| 455.3   |
| 396.6   |
| 296.1   |
| 176.0   |
| 114.5   |
| 92.2    |
| 75.4    |
| 67.0    |
| 39.1    |
| 14.0    |
| 0.0     |

(END OF REPORT)