

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: P637780

Luminaire Tested: **IFLD-L-SA8D-830-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637780  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 41610.1 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 488.3  
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



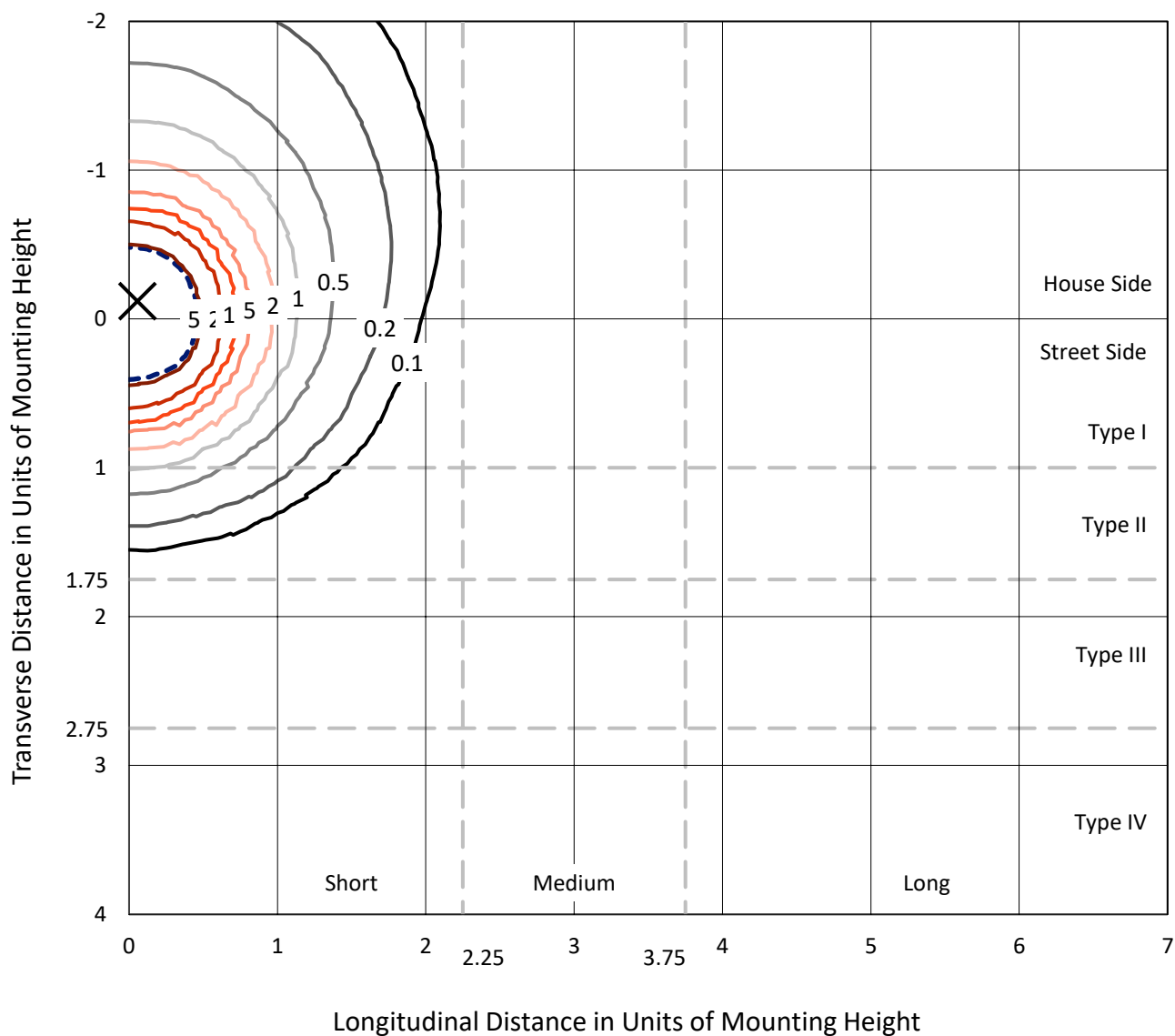
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

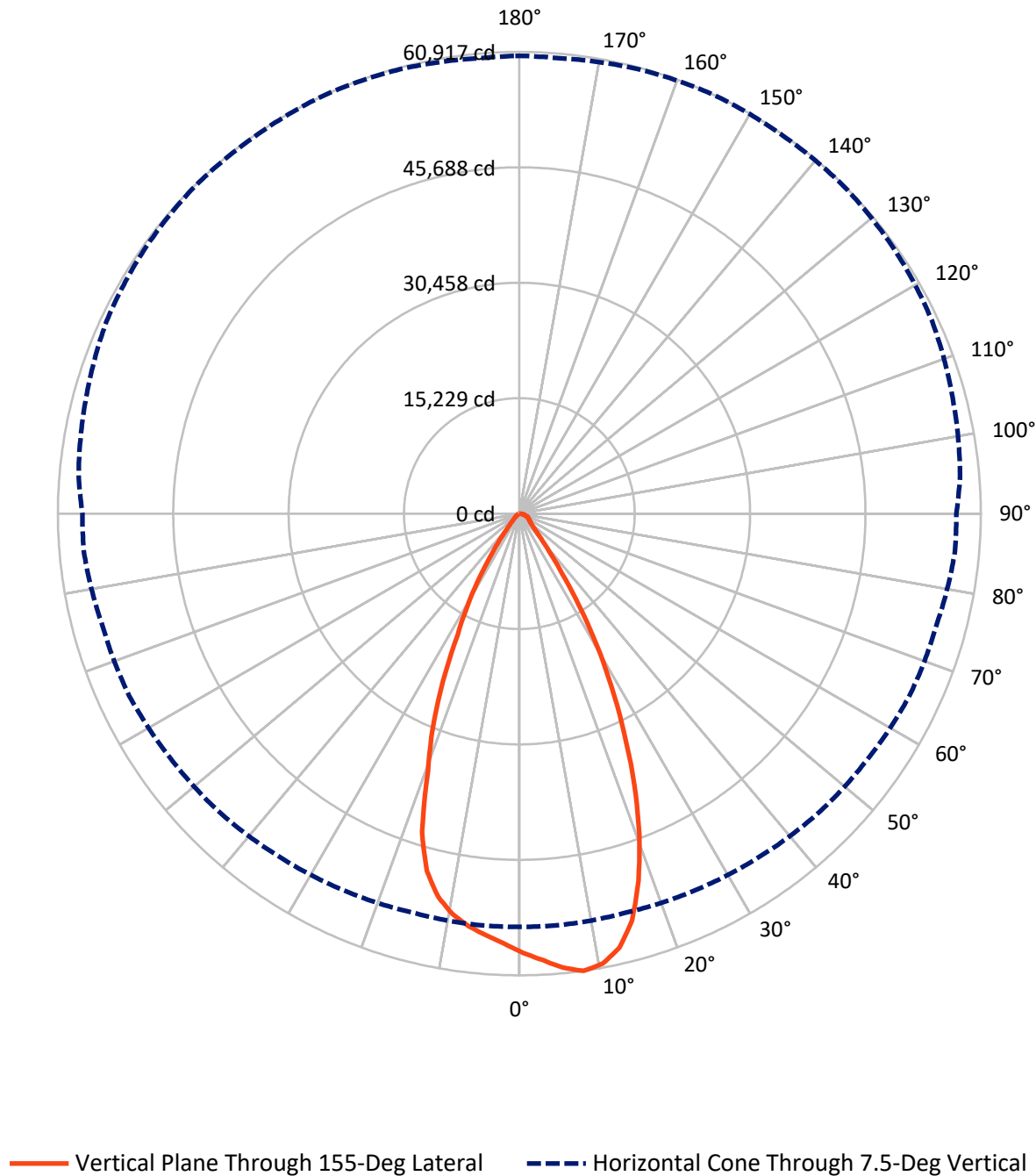


Based on 20 foot mounting height. Maximum calculated value = 147.3 fc

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    | 22970.3  | 0.0    | 22970.3 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 18639.8  | 0.0    | 18639.8 |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 41610.1  | 0.0    | 41610.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 5527.4  | 13.3      |
| 10°-20°   | 14332.7 | 34.4      |
| 20°-30°   | 13132.7 | 31.6      |
| 30°-40°   | 5305.6  | 12.8      |
| 40°-50°   | 1556.4  | 3.7       |
| 50°-60°   | 870.2   | 2.1       |
| 60°-70°   | 528.6   | 1.3       |
| 70°-80°   | 268.6   | 0.6       |
| 80°-90°   | 87.8    | 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°    | 41610.1 | 100.0     |
| 0°-180°   | 41610.1 | 100.0     |

**Coefficient of Utilization**



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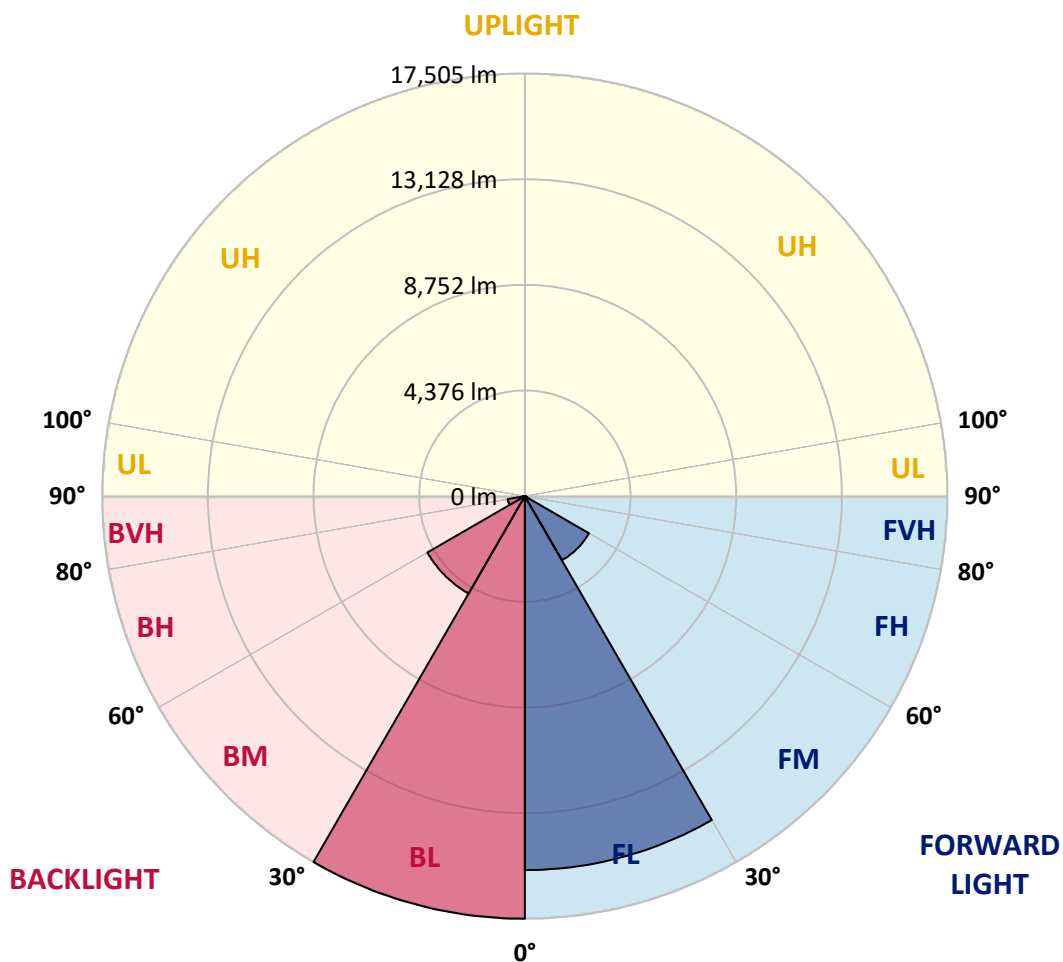
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 15488.3 | 37.2      |                         |      |         |
| FM   | (30°-60°)   | 3069.5  | 7.4       |                         |      |         |
| FH   | (60°-80°)   | 74.4    | 0.2       |                         |      | G0/660  |
| FVH  | (80°-90°)   | 7.6     | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 17504.5 | 42.1      | B5                      |      |         |
| BM   | (30°-60°)   | 4662.8  | 11.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 722.8   | 1.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 80.2    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 |
| 2.5°  | 56709.0 | 56900.9 | 56517.0 | 56771.3 | 56968.1 | 57438.3 | 57476.7 | 57639.8 | 57697.4 | 58124.4 |
| 5°    | 55634.2 | 55782.9 | 55471.1 | 55811.7 | 56090.0 | 56507.4 | 56828.9 | 57279.9 | 57529.4 | 58033.3 |
| 7.5°  | 54516.2 | 54549.8 | 54487.4 | 54847.3 | 55264.7 | 55840.5 | 56238.8 | 56828.9 | 56982.5 | 57702.2 |
| 10°   | 53163.2 | 52918.5 | 53038.4 | 53566.2 | 54190.0 | 55072.8 | 55346.3 | 55936.5 | 56210.0 | 56944.1 |
| 12.5° | 51004.0 | 51128.8 | 50980.0 | 51651.8 | 52169.9 | 53172.8 | 53460.6 | 54055.6 | 54578.6 | 55226.4 |
| 15°   | 47962.0 | 47890.0 | 48192.3 | 48715.3 | 49276.7 | 50073.2 | 50538.6 | 51186.3 | 51584.6 | 52256.3 |
| 17.5° | 41124.7 | 41369.4 | 42616.9 | 43926.8 | 45078.3 | 46009.2 | 46565.7 | 47103.1 | 47391.0 | 48120.3 |
| 20°   | 35515.7 | 35208.6 | 35376.5 | 36115.4 | 39392.6 | 40817.6 | 41403.0 | 41532.5 | 41652.5 | 42228.2 |
| 22.5° | 29244.5 | 29143.8 | 29705.2 | 30535.2 | 31312.5 | 34599.2 | 35395.7 | 35093.4 | 35342.9 | 35885.1 |
| 25°   | 21716.3 | 22224.9 | 22723.9 | 24316.9 | 25324.5 | 26936.6 | 28448.0 | 28582.4 | 28673.6 | 29014.2 |
| 27.5° | 17676.3 | 17498.7 | 17489.1 | 17935.4 | 19422.8 | 20766.3 | 22052.2 | 22349.6 | 22296.9 | 22623.1 |
| 30°   | 13895.4 | 13837.8 | 13636.3 | 13741.8 | 13593.1 | 14787.8 | 15392.4 | 16615.9 | 16548.7 | 16558.3 |
| 32.5° | 10023.3 | 9807.4  | 9725.8  | 9884.1  | 9730.6  | 9620.2  | 10148.0 | 11529.9 | 11505.9 | 11601.9 |
| 35°   | 6064.8  | 6036.0  | 6103.2  | 6242.4  | 5935.3  | 5925.7  | 6036.0  | 7336.3  | 7494.7  | 7648.2  |
| 37.5° | 3349.1  | 3320.3  | 3373.1  | 3886.5  | 3785.7  | 3694.6  | 3723.3  | 4409.5  | 4865.3  | 4980.4  |
| 40°   | 2207.1  | 2202.3  | 2240.7  | 2331.9  | 2504.6  | 2471.0  | 2485.4  | 2792.5  | 3224.3  | 3325.1  |
| 42.5° | 1477.8  | 1482.6  | 1506.6  | 1612.2  | 1636.2  | 1808.9  | 1780.1  | 1852.1  | 2255.1  | 2341.5  |
| 45°   | 1180.3  | 1175.5  | 1189.9  | 1142.0  | 1170.7  | 1348.3  | 1367.5  | 1372.3  | 1717.7  | 1770.5  |
| 47.5° | 930.8   | 930.8   | 945.2   | 882.9   | 868.5   | 978.8   | 1079.6  | 1094.0  | 1372.3  | 1444.2  |
| 50°   | 652.5   | 652.5   | 724.5   | 695.7   | 729.3   | 762.9   | 873.3   | 887.7   | 1122.8  | 1199.5  |
| 52.5° | 479.8   | 489.4   | 499.0   | 503.8   | 614.2   | 609.4   | 705.3   | 772.5   | 849.3   | 983.6   |
| 55°   | 364.7   | 374.3   | 350.3   | 374.3   | 455.8   | 508.6   | 527.8   | 623.8   | 676.5   | 825.3   |
| 57.5° | 239.9   | 263.9   | 244.7   | 287.9   | 307.1   | 393.4   | 422.2   | 513.4   | 547.0   | 676.5   |
| 60°   | 33.6    | 38.4    | 62.4    | 201.5   | 215.9   | 259.1   | 326.3   | 407.8   | 441.4   | 551.8   |
| 62.5° | 4.8     | 4.8     | 14.4    | 33.6    | 143.9   | 172.7   | 244.7   | 283.1   | 326.3   | 412.6   |
| 65°   | 0.0     | 0.0     | 4.8     | 9.6     | 28.8    | 100.8   | 124.8   | 153.5   | 225.5   | 297.5   |
| 67.5° | 0.0     | 0.0     | 4.8     | 9.6     | 14.4    | 33.6    | 52.8    | 100.8   | 129.5   | 206.3   |
| 70°   | 0.0     | 0.0     | 4.8     | 9.6     | 14.4    | 19.2    | 28.8    | 38.4    | 76.8    | 120.0   |
| 72.5° | 0.0     | 0.0     | 4.8     | 9.6     | 14.4    | 19.2    | 24.0    | 28.8    | 33.6    | 76.8    |
| 75°   | 0.0     | 0.0     | 4.8     | 9.6     | 14.4    | 24.0    | 28.8    | 28.8    | 28.8    | 33.6    |
| 77.5° | 0.0     | 0.0     | 4.8     | 9.6     | 19.2    | 28.8    | 33.6    | 28.8    | 24.0    | 24.0    |
| 80°   | 0.0     | 0.0     | 4.8     | 14.4    | 24.0    | 33.6    | 38.4    | 28.8    | 19.2    | 14.4    |
| 82.5° | 0.0     | 0.0     | 4.8     | 14.4    | 24.0    | 33.6    | 38.4    | 33.6    | 19.2    | 14.4    |
| 85°   | 0.0     | 0.0     | 4.8     | 14.4    | 19.2    | 24.0    | 38.4    | 33.6    | 19.2    | 9.6     |
| 87.5° | 0.0     | 0.0     | 0.0     | 4.8     | 4.8     | 9.6     | 19.2    | 14.4    | 9.6     | 4.8     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 57966.1 | 0°    | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 | 57966.1 |
| 58114.8 | 2.5°  | 58546.6 | 58762.6 | 59141.6 | 59247.2 | 59573.4 | 59199.2 | 58992.9 | 59012.1 | 58565.8 |
| 57970.9 | 5°    | 58546.6 | 59040.9 | 59703.0 | 60019.7 | 60259.6 | 60240.4 | 60187.6 | 60053.3 | 59727.0 |
| 57683.0 | 7.5°  | 58393.1 | 59199.2 | 60110.8 | 60533.1 | 60821.0 | 60797.0 | 60916.9 | 60701.0 | 60302.8 |
| 57169.6 | 10°   | 57898.9 | 58599.4 | 59722.2 | 60067.7 | 60533.1 | 60542.7 | 60393.9 | 60437.1 | 59727.0 |
| 55293.5 | 12.5° | 56344.3 | 56891.3 | 57874.9 | 58268.4 | 58834.5 | 58925.7 | 58762.6 | 58700.2 | 58028.5 |
| 52217.9 | 15°   | 53335.9 | 53652.6 | 54641.0 | 55034.4 | 55595.8 | 55519.0 | 55682.2 | 55615.0 | 55024.8 |
| 48062.8 | 17.5° | 48936.0 | 49036.8 | 50073.2 | 50404.2 | 50932.0 | 51138.4 | 50893.6 | 51205.5 | 50696.9 |
| 42329.0 | 20°   | 42626.5 | 43168.7 | 44334.6 | 44843.2 | 45150.3 | 45519.8 | 45198.3 | 45548.5 | 44953.6 |
| 35371.7 | 22.5° | 36225.8 | 36547.3 | 37602.9 | 38337.0 | 38907.9 | 38979.9 | 38860.0 | 39104.7 | 38303.4 |
| 29239.7 | 25°   | 29234.9 | 29767.5 | 30602.4 | 31562.0 | 32123.4 | 32468.9 | 32157.0 | 32315.3 | 32185.8 |
| 22675.9 | 27.5° | 23059.8 | 23534.8 | 24163.3 | 24878.2 | 25722.7 | 26173.7 | 25924.2 | 26192.9 | 25559.6 |
| 16908.6 | 30°   | 16923.0 | 17162.9 | 17873.0 | 18631.1 | 19557.1 | 20104.1 | 20128.1 | 20401.6 | 20027.3 |
| 11846.6 | 32.5° | 11932.9 | 12144.0 | 12580.7 | 13084.5 | 13967.3 | 14576.7 | 14480.7 | 14519.1 | 14288.8 |
| 7720.2  | 35°   | 7758.6  | 8041.6  | 8353.5  | 8593.4  | 9126.0  | 9797.8  | 9745.0  | 9697.0  | 9538.7  |
| 5076.4  | 37.5° | 5186.8  | 5297.1  | 5469.9  | 5685.8  | 6031.2  | 6453.5  | 6592.6  | 6419.9  | 6352.7  |
| 3425.9  | 40°   | 3507.4  | 3699.3  | 3814.5  | 3977.6  | 4140.8  | 4495.8  | 4591.8  | 4558.2  | 4491.0  |
| 2399.1  | 42.5° | 2490.2  | 2639.0  | 2782.9  | 2941.2  | 3027.6  | 3248.3  | 3435.5  | 3382.7  | 3353.9  |
| 1823.3  | 45°   | 1890.5  | 2024.8  | 2192.7  | 2312.7  | 2399.1  | 2528.6  | 2706.1  | 2725.3  | 2682.1  |
| 1463.4  | 47.5° | 1516.2  | 1636.2  | 1770.5  | 1919.2  | 2020.0  | 2101.6  | 2255.1  | 2312.7  | 2283.9  |
| 1233.1  | 50°   | 1285.9  | 1377.1  | 1506.6  | 1655.4  | 1765.7  | 1837.7  | 1972.0  | 2034.4  | 2015.2  |
| 1031.6  | 52.5° | 1094.0  | 1204.3  | 1324.3  | 1449.0  | 1583.4  | 1655.4  | 1780.1  | 1871.3  | 1856.9  |
| 854.1   | 55°   | 906.8   | 1050.8  | 1175.5  | 1300.3  | 1453.8  | 1525.8  | 1636.2  | 1756.1  | 1732.1  |
| 724.5   | 57.5° | 791.7   | 911.6   | 1041.2  | 1161.1  | 1324.3  | 1420.2  | 1521.0  | 1645.8  | 1641.0  |
| 595.0   | 60°   | 662.1   | 782.1   | 926.0   | 1026.8  | 1199.5  | 1333.9  | 1425.0  | 1554.6  | 1564.2  |
| 451.0   | 62.5° | 527.8   | 676.5   | 786.9   | 926.0   | 1084.4  | 1242.7  | 1329.1  | 1458.6  | 1506.6  |
| 345.5   | 65°   | 393.4   | 556.6   | 681.3   | 820.5   | 969.2   | 1146.8  | 1223.5  | 1353.1  | 1401.1  |
| 249.5   | 67.5° | 292.7   | 417.4   | 575.8   | 695.7   | 863.7   | 1017.2  | 1108.4  | 1228.3  | 1261.9  |
| 148.7   | 70°   | 220.7   | 321.5   | 479.8   | 585.4   | 758.1   | 882.9   | 974.0   | 1065.2  | 1108.4  |
| 100.8   | 72.5° | 129.5   | 239.9   | 379.1   | 503.8   | 652.5   | 758.1   | 825.3   | 897.2   | 926.0   |
| 48.0    | 75°   | 91.2    | 182.3   | 297.5   | 417.4   | 527.8   | 614.2   | 676.5   | 738.9   | 767.7   |
| 24.0    | 77.5° | 48.0    | 134.3   | 235.1   | 335.9   | 412.6   | 484.6   | 547.0   | 595.0   | 614.2   |
| 19.2    | 80°   | 28.8    | 96.0    | 191.9   | 263.9   | 316.7   | 379.1   | 441.4   | 475.0   | 470.2   |
| 14.4    | 82.5° | 19.2    | 76.8    | 139.1   | 191.9   | 230.3   | 278.3   | 321.5   | 345.5   | 345.5   |
| 9.6     | 85°   | 14.4    | 52.8    | 96.0    | 148.7   | 153.5   | 191.9   | 201.5   | 225.5   | 230.3   |
| 9.6     | 87.5° | 9.6     | 33.6    | 52.8    | 86.4    | 81.6    | 100.8   | 105.6   | 120.0   | 129.5   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 57966.1 |
| 58206.0 |
| 59832.5 |
| 60393.9 |
| 59520.7 |
| 57874.9 |
| 55212.0 |
| 50572.2 |
| 44905.6 |
| 38193.0 |
| 32104.2 |
| 25722.7 |
| 20094.5 |
| 14418.3 |
| 9399.5  |
| 6338.3  |
| 4500.6  |
| 3329.9  |
| 2677.4  |
| 2269.5  |
| 2010.4  |
| 1847.3  |
| 1732.1  |
| 1636.2  |
| 1564.2  |
| 1501.8  |
| 1396.3  |
| 1261.9  |
| 1098.8  |
| 916.4   |
| 758.1   |
| 609.4   |
| 465.4   |
| 340.7   |
| 225.5   |
| 124.8   |
| 0.0     |

(END OF REPORT)