

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: P637569

Luminaire Tested: **IFLD-L-SA7A-727-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637569  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 24588.8 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 217.6  
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



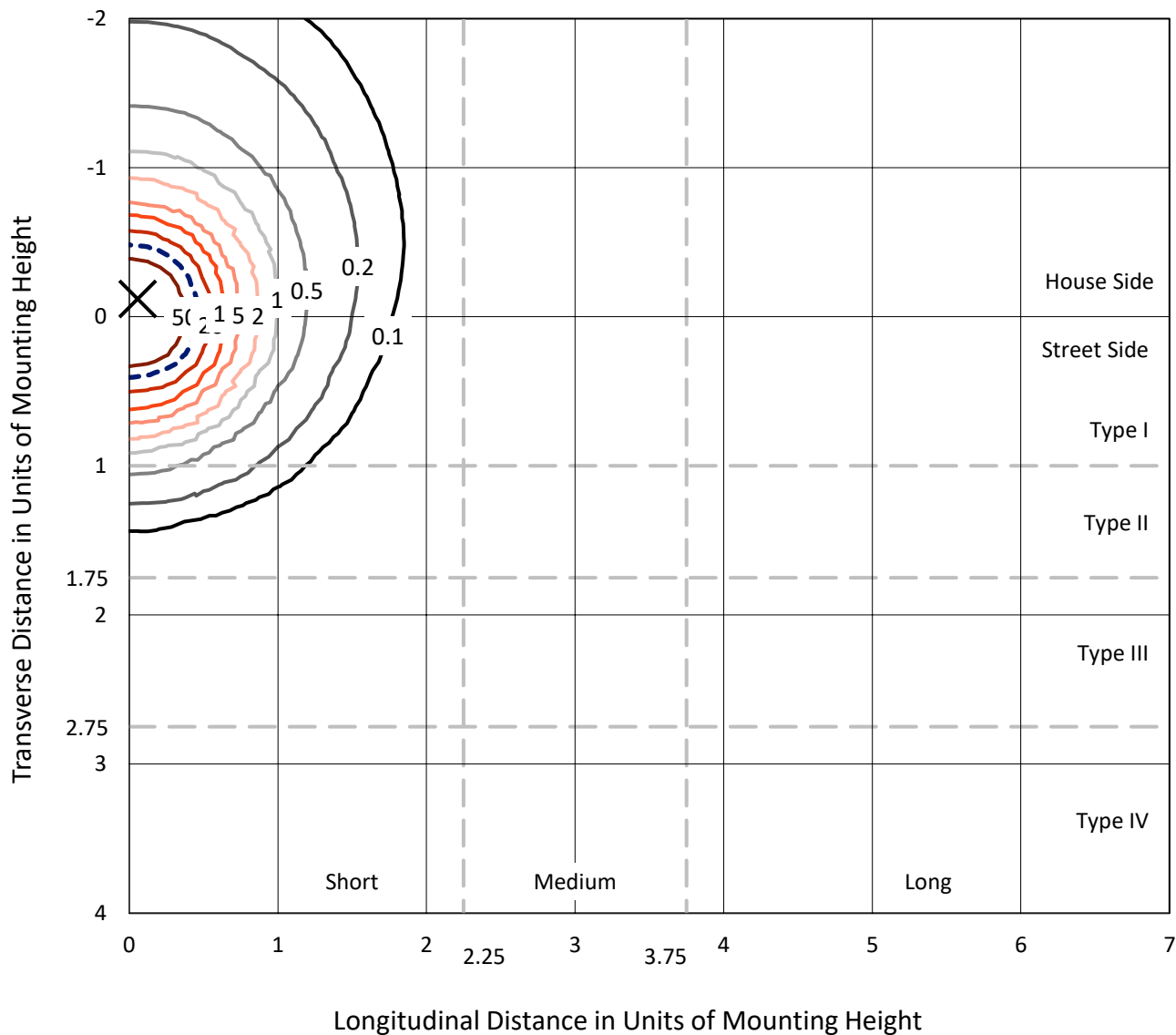
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



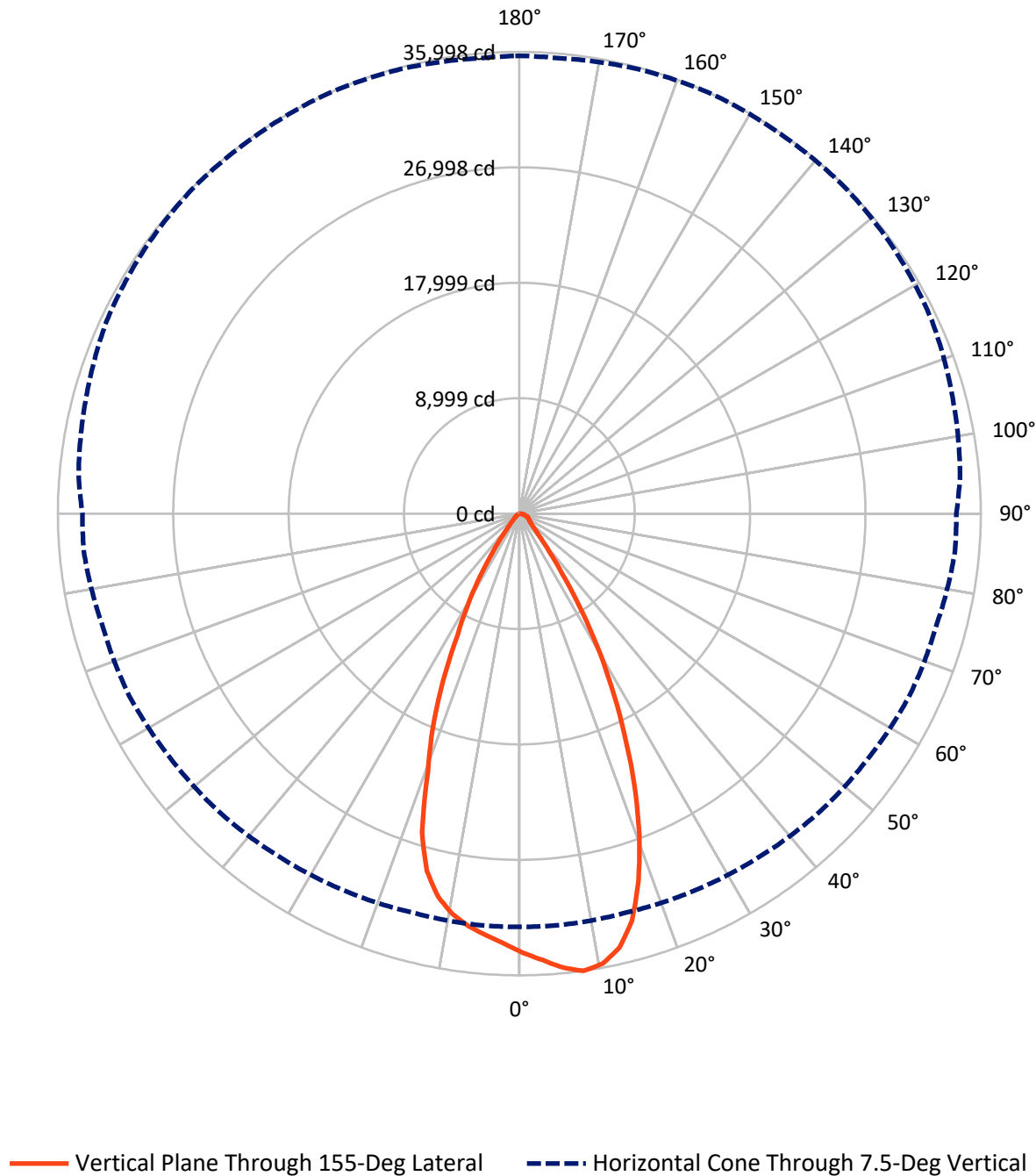
Based on 20 foot mounting height. Maximum calculated value = 87 fc

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    | 13573.9  | 0.0    | 13573.9 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 11014.9  | 0.0    | 11014.9 |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 24588.8  | 0.0    | 24588.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3266.4  | 13.3      |
| 10°-20°   | 8469.7  | 34.4      |
| 20°-30°   | 7760.6  | 31.6      |
| 30°-40°   | 3135.3  | 12.8      |
| 40°-50°   | 919.7   | 3.7       |
| 50°-60°   | 514.3   | 2.1       |
| 60°-70°   | 312.3   | 1.3       |
| 70°-80°   | 158.7   | 0.6       |
| 80°-90°   | 51.9    | 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°    | 24588.8 | 100.0     |
| 0°-180°   | 24588.8 | 100.0     |

**Coefficient of Utilization**



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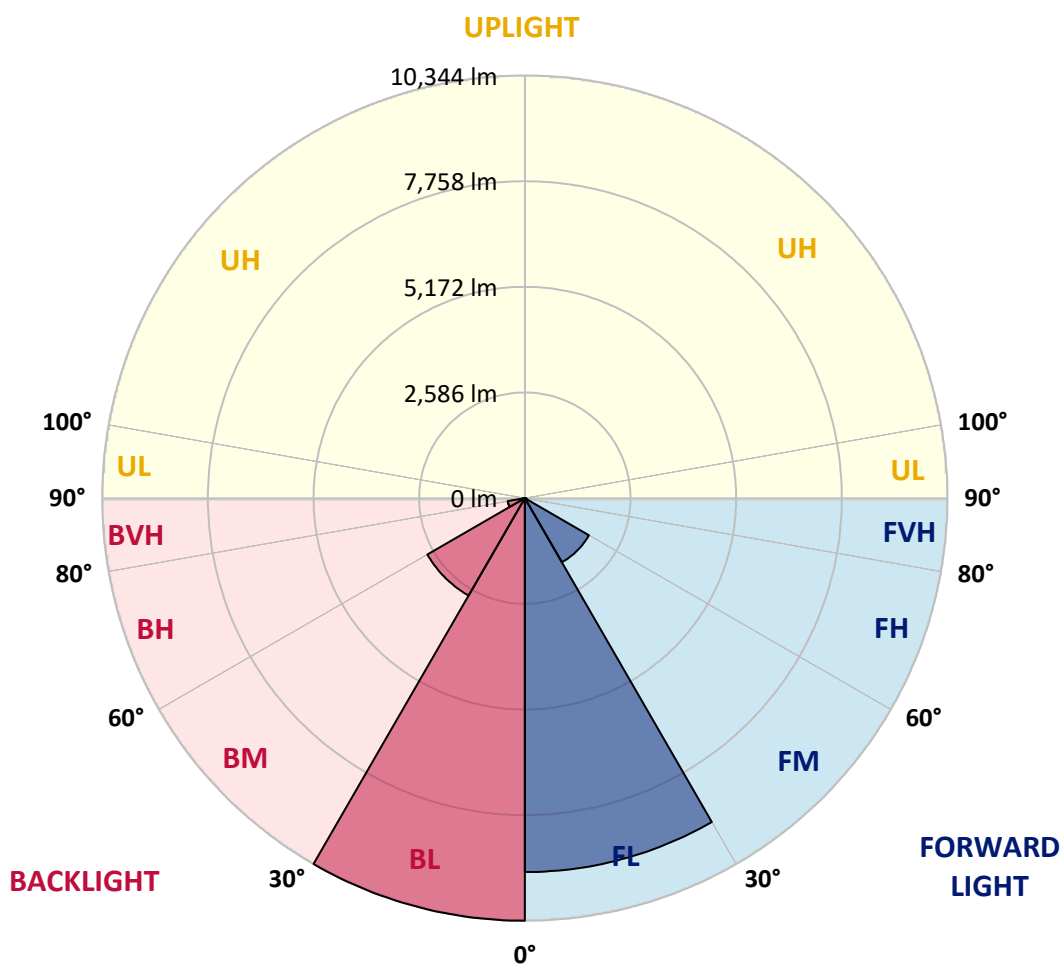
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 9152.6  | 37.2      |                         |      |        |
| FM   | (30°-60°)   | 1813.9  | 7.4       |                         |      |        |
| FH   | (60°-80°)   | 43.9    | 0.2       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 4.5     | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 10344.0 | 42.1      | B5                      |      |        |
| BM   | (30°-60°)   | 2755.4  | 11.2      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 427.1   | 1.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 47.4    | 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-G1**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 |
| 2.5°  | 33511.2 | 33624.6 | 33397.8 | 33548.1 | 33664.3 | 33942.2 | 33964.9 | 34061.3 | 34095.3 | 34347.7 |
| 5°    | 32876.1 | 32964.0 | 32779.7 | 32981.0 | 33145.5 | 33392.1 | 33582.1 | 33848.6 | 33996.1 | 34293.8 |
| 7.5°  | 32215.5 | 32235.3 | 32198.5 | 32411.1 | 32657.8 | 32998.0 | 33233.4 | 33582.1 | 33672.8 | 34098.1 |
| 10°   | 31415.9 | 31271.3 | 31342.2 | 31654.1 | 32022.7 | 32544.4 | 32706.0 | 33054.7 | 33216.3 | 33650.2 |
| 12.5° | 30140.0 | 30213.7 | 30125.8 | 30522.7 | 30829.0 | 31421.6 | 31591.7 | 31943.3 | 32252.3 | 32635.1 |
| 15°   | 28342.3 | 28299.8 | 28478.4 | 28787.5 | 29119.2 | 29589.9 | 29864.9 | 30247.7 | 30483.1 | 30880.0 |
| 17.5° | 24301.9 | 24446.6 | 25183.7 | 25957.8 | 26638.3 | 27188.4 | 27517.3 | 27834.8 | 28004.9 | 28435.9 |
| 20°   | 20987.4 | 20805.9 | 20905.2 | 21341.8 | 23278.4 | 24120.5 | 24466.4 | 24543.0 | 24613.8 | 24954.1 |
| 22.5° | 17281.6 | 17222.0 | 17553.8 | 18044.3 | 18503.6 | 20445.8 | 20916.5 | 20737.9 | 20885.3 | 21205.7 |
| 25°   | 12832.9 | 13133.4 | 13428.3 | 14369.7 | 14965.1 | 15917.8 | 16810.9 | 16890.3 | 16944.2 | 17145.5 |
| 27.5° | 10445.5 | 10340.6 | 10334.9 | 10598.6 | 11477.6 | 12271.5 | 13031.4 | 13207.1 | 13176.0 | 13368.8 |
| 30°   | 8211.2  | 8177.2  | 8058.1  | 8120.5  | 8032.6  | 8738.6  | 9095.9  | 9818.9  | 9779.2  | 9784.9  |
| 32.5° | 5923.1  | 5795.5  | 5747.3  | 5840.9  | 5750.1  | 5684.9  | 5996.8  | 6813.4  | 6799.2  | 6855.9  |
| 35°   | 3583.9  | 3566.9  | 3606.6  | 3688.8  | 3507.4  | 3501.7  | 3566.9  | 4335.3  | 4428.8  | 4519.6  |
| 37.5° | 1979.1  | 1962.1  | 1993.3  | 2296.6  | 2237.1  | 2183.2  | 2200.2  | 2605.7  | 2875.1  | 2943.1  |
| 40°   | 1304.3  | 1301.4  | 1324.1  | 1378.0  | 1480.1  | 1460.2  | 1468.7  | 1650.2  | 1905.4  | 1964.9  |
| 42.5° | 873.3   | 876.1   | 890.3   | 952.7   | 966.9   | 1068.9  | 1051.9  | 1094.5  | 1332.6  | 1383.7  |
| 45°   | 697.5   | 694.7   | 703.2   | 674.8   | 691.8   | 796.7   | 808.1   | 810.9   | 1015.1  | 1046.3  |
| 47.5° | 550.1   | 550.1   | 558.6   | 521.7   | 513.2   | 578.4   | 638.0   | 646.5   | 810.9   | 853.4   |
| 50°   | 385.6   | 385.6   | 428.1   | 411.1   | 431.0   | 450.8   | 516.0   | 524.5   | 663.5   | 708.8   |
| 52.5° | 283.5   | 289.2   | 294.9   | 297.7   | 362.9   | 360.1   | 416.8   | 456.5   | 501.9   | 581.3   |
| 55°   | 215.5   | 221.2   | 207.0   | 221.2   | 269.4   | 300.5   | 311.9   | 368.6   | 399.8   | 487.7   |
| 57.5° | 141.8   | 155.9   | 144.6   | 170.1   | 181.5   | 232.5   | 249.5   | 303.4   | 323.2   | 399.8   |
| 60°   | 19.8    | 22.7    | 36.9    | 119.1   | 127.6   | 153.1   | 192.8   | 241.0   | 260.9   | 326.1   |
| 62.5° | 2.8     | 2.8     | 8.5     | 19.8    | 85.1    | 102.1   | 144.6   | 167.3   | 192.8   | 243.8   |
| 65°   | 0.0     | 0.0     | 2.8     | 5.7     | 17.0    | 59.5    | 73.7    | 90.7    | 133.3   | 175.8   |
| 67.5° | 0.0     | 0.0     | 2.8     | 5.7     | 8.5     | 19.8    | 31.2    | 59.5    | 76.6    | 121.9   |
| 70°   | 0.0     | 0.0     | 2.8     | 5.7     | 8.5     | 11.3    | 17.0    | 22.7    | 45.4    | 70.9    |
| 72.5° | 0.0     | 0.0     | 2.8     | 5.7     | 8.5     | 11.3    | 14.2    | 17.0    | 19.8    | 45.4    |
| 75°   | 0.0     | 0.0     | 2.8     | 5.7     | 8.5     | 14.2    | 17.0    | 17.0    | 17.0    | 19.8    |
| 77.5° | 0.0     | 0.0     | 2.8     | 5.7     | 11.3    | 17.0    | 19.8    | 17.0    | 14.2    | 14.2    |
| 80°   | 0.0     | 0.0     | 2.8     | 8.5     | 14.2    | 19.8    | 22.7    | 17.0    | 11.3    | 8.5     |
| 82.5° | 0.0     | 0.0     | 2.8     | 8.5     | 14.2    | 19.8    | 22.7    | 19.8    | 11.3    | 8.5     |
| 85°   | 0.0     | 0.0     | 2.8     | 8.5     | 11.3    | 14.2    | 22.7    | 19.8    | 11.3    | 5.7     |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.8     | 2.8     | 5.7     | 11.3    | 8.5     | 5.7     | 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 34254.1 | 0°    | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 | 34254.1 |
| 34342.0 | 2.5°  | 34597.2 | 34724.8 | 34948.8 | 35011.1 | 35203.9 | 34982.8 | 34860.9 | 34872.2 | 34608.5 |
| 34256.9 | 5°    | 34597.2 | 34889.2 | 35280.5 | 35467.6 | 35609.4 | 35598.1 | 35566.9 | 35487.5 | 35294.7 |
| 34086.8 | 7.5°  | 34506.4 | 34982.8 | 35521.5 | 35771.0 | 35941.1 | 35927.0 | 35997.8 | 35870.3 | 35634.9 |
| 33783.4 | 10°   | 34214.4 | 34628.4 | 35291.8 | 35496.0 | 35771.0 | 35776.7 | 35688.8 | 35714.3 | 35294.7 |
| 32674.8 | 12.5° | 33295.7 | 33619.0 | 34200.2 | 34432.7 | 34767.3 | 34821.2 | 34724.8 | 34687.9 | 34291.0 |
| 30857.3 | 15°   | 31518.0 | 31705.1 | 32289.2 | 32521.7 | 32853.4 | 32808.1 | 32904.5 | 32864.8 | 32516.0 |
| 28401.9 | 17.5° | 28917.9 | 28977.5 | 29589.9 | 29785.6 | 30097.4 | 30219.4 | 30074.8 | 30259.1 | 29958.5 |
| 25013.6 | 20°   | 25189.4 | 25509.8 | 26198.8 | 26499.4 | 26680.8 | 26899.1 | 26709.2 | 26916.2 | 26564.6 |
| 20902.3 | 22.5° | 21407.0 | 21597.0 | 22220.8 | 22654.6 | 22992.0 | 23034.5 | 22963.7 | 23108.3 | 22634.8 |
| 17278.7 | 25°   | 17275.9 | 17590.6 | 18084.0 | 18651.1 | 18982.8 | 19186.9 | 19002.6 | 19096.2 | 19019.7 |
| 13400.0 | 27.5° | 13626.8 | 13907.5 | 14278.9 | 14701.4 | 15200.4 | 15466.9 | 15319.5 | 15478.3 | 15104.0 |
| 9991.8  | 30°   | 10000.3 | 10142.1 | 10561.7 | 11009.7 | 11557.0 | 11880.2 | 11894.4 | 12056.0 | 11834.8 |
| 7000.5  | 32.5° | 7051.6  | 7176.3  | 7434.3  | 7732.1  | 8253.8  | 8613.9  | 8557.1  | 8579.8  | 8443.7  |
| 4562.1  | 35°   | 4584.8  | 4752.1  | 4936.4  | 5078.1  | 5392.9  | 5789.8  | 5758.6  | 5730.3  | 5636.7  |
| 2999.8  | 37.5° | 3065.0  | 3130.2  | 3232.3  | 3359.9  | 3564.1  | 3813.6  | 3895.8  | 3793.7  | 3754.0  |
| 2024.5  | 40°   | 2072.7  | 2186.1  | 2254.1  | 2350.5  | 2446.9  | 2656.7  | 2713.4  | 2693.6  | 2653.9  |
| 1417.7  | 42.5° | 1471.6  | 1559.5  | 1644.5  | 1738.1  | 1789.1  | 1919.5  | 2030.1  | 1998.9  | 1981.9  |
| 1077.4  | 45°   | 1117.1  | 1196.5  | 1295.8  | 1366.6  | 1417.7  | 1494.2  | 1599.1  | 1610.5  | 1585.0  |
| 864.8   | 47.5° | 896.0   | 966.9   | 1046.3  | 1134.1  | 1193.7  | 1241.9  | 1332.6  | 1366.6  | 1349.6  |
| 728.7   | 50°   | 759.9   | 813.8   | 890.3   | 978.2   | 1043.4  | 1085.9  | 1165.3  | 1202.2  | 1190.9  |
| 609.6   | 52.5° | 646.5   | 711.7   | 782.6   | 856.3   | 935.7   | 978.2   | 1051.9  | 1105.8  | 1097.3  |
| 504.7   | 55°   | 535.9   | 620.9   | 694.7   | 768.4   | 859.1   | 901.6   | 966.9   | 1037.7  | 1023.6  |
| 428.1   | 57.5° | 467.8   | 538.7   | 615.3   | 686.2   | 782.6   | 839.3   | 898.8   | 972.5   | 969.7   |
| 351.6   | 60°   | 391.3   | 462.2   | 547.2   | 606.8   | 708.8   | 788.2   | 842.1   | 918.7   | 924.3   |
| 266.5   | 62.5° | 311.9   | 399.8   | 465.0   | 547.2   | 640.8   | 734.4   | 785.4   | 862.0   | 890.3   |
| 204.1   | 65°   | 232.5   | 328.9   | 402.6   | 484.8   | 572.7   | 677.7   | 723.0   | 799.6   | 827.9   |
| 147.4   | 67.5° | 173.0   | 246.7   | 340.2   | 411.1   | 510.4   | 601.1   | 655.0   | 725.9   | 745.7   |
| 87.9    | 70°   | 130.4   | 190.0   | 283.5   | 345.9   | 448.0   | 521.7   | 575.6   | 629.5   | 655.0   |
| 59.5    | 72.5° | 76.6    | 141.8   | 224.0   | 297.7   | 385.6   | 448.0   | 487.7   | 530.2   | 547.2   |
| 28.4    | 75°   | 53.9    | 107.7   | 175.8   | 246.7   | 311.9   | 362.9   | 399.8   | 436.6   | 453.7   |
| 14.2    | 77.5° | 28.4    | 79.4    | 138.9   | 198.5   | 243.8   | 286.4   | 323.2   | 351.6   | 362.9   |
| 11.3    | 80°   | 17.0    | 56.7    | 113.4   | 155.9   | 187.1   | 224.0   | 260.9   | 280.7   | 277.9   |
| 8.5     | 82.5° | 11.3    | 45.4    | 82.2    | 113.4   | 136.1   | 164.5   | 190.0   | 204.1   | 204.1   |
| 5.7     | 85°   | 8.5     | 31.2    | 56.7    | 87.9    | 90.7    | 113.4   | 119.1   | 133.3   | 136.1   |
| 5.7     | 87.5° | 5.7     | 19.8    | 31.2    | 51.0    | 48.2    | 59.5    | 62.4    | 70.9    | 76.6    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

180°  
34254.1  
34395.9  
35357.1  
35688.8  
35172.8  
34200.2  
32626.6  
29884.8  
26536.2  
22569.5  
18971.5  
15200.4  
11874.5  
8520.3  
5554.5  
3745.5  
2659.6  
1967.7  
1582.1  
1341.1  
1188.0  
1091.6  
1023.6  
966.9  
924.3  
887.5  
825.1  
745.7  
649.3  
541.6  
448.0  
360.1  
275.0  
201.3  
133.3  
73.7  
0.0

(END OF REPORT)