

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: P636554

Luminaire Tested: **IFLD-L-SA7A-950-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P636554  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-950-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (112) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18715.8 lumens  
Efficiency: N/A  
Efficacy: 86.0 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



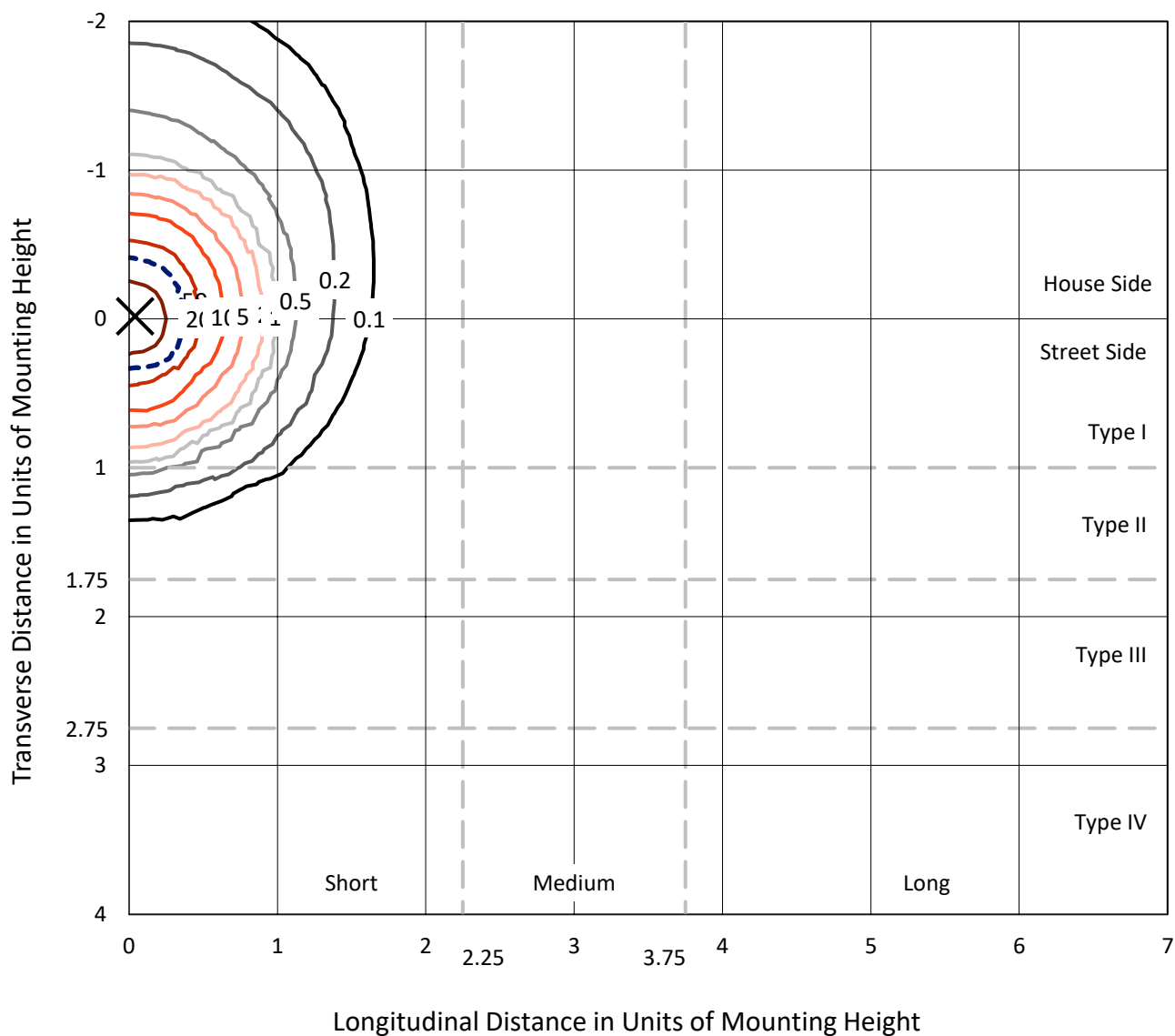
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

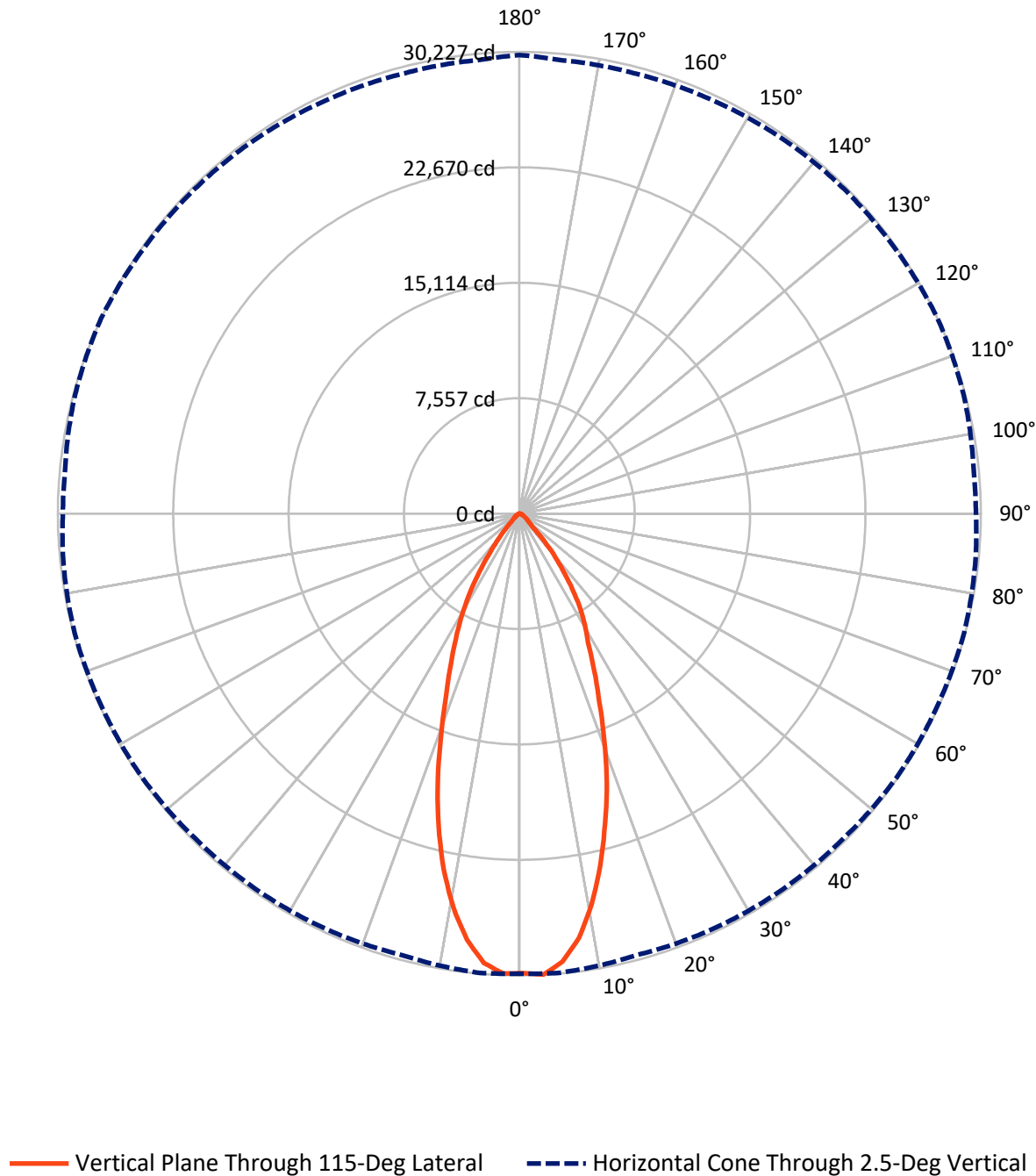


Based on 20 foot mounting height. Maximum calculated value = 75.2 fc

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    | 10329.0  | 0.0    | 10329.0 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 8386.9   | 0.0    | 8386.9  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 18715.8  | 0.0    | 18715.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2698.5  | 14.4      |
| 10°-20°   | 5703.1  | 30.5      |
| 20°-30°   | 5147.4  | 27.5      |
| 30°-40°   | 3406.4  | 18.2      |
| 40°-50°   | 1020.4  | 5.5       |
| 50°-60°   | 409.3   | 2.2       |
| 60°-70°   | 212.0   | 1.1       |
| 70°-80°   | 92.0    | 0.5       |
| 80°-90°   | 26.8    | 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°    | 18715.8 | 100.0     |
| 0°-180°   | 18715.8 | 100.0     |

**Coefficient of Utilization**



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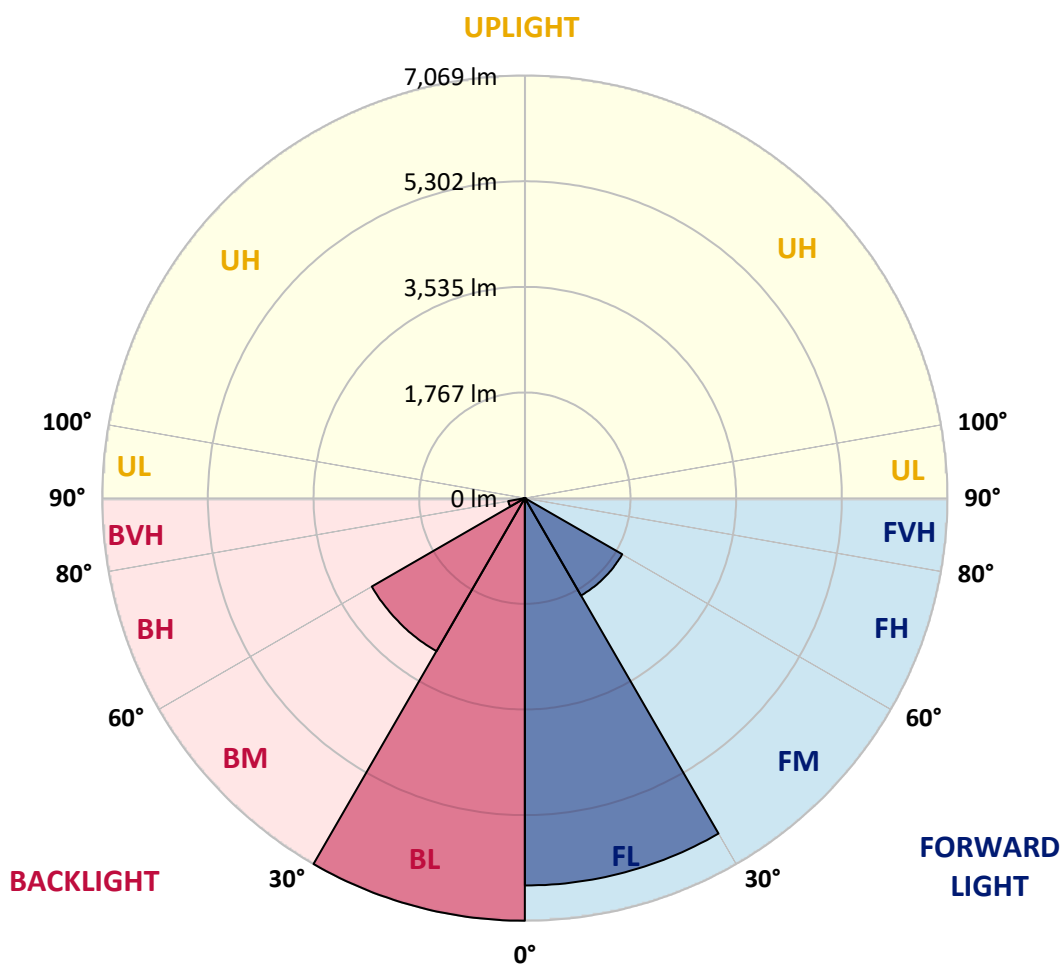
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 6479.6 | 34.6      |                         |      |        |
| FM   | (30°-60°)   | 1880.2 | 10.0      |                         |      |        |
| FH   | (60°-80°)   | 23.3   | 0.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 3.9    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 7069.4 | 37.8      | B5                      |      |        |
| BM   | (30°-60°)   | 2955.9 | 15.8      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 280.7  | 1.5       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 22.9   | 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°    | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 |
| 2.5°  | 30124.0 | 30177.6 | 29909.6 | 30001.5 | 30039.8 | 30051.3 | 30147.0 | 30131.6 | 30158.4 | 30016.8 |
| 5°    | 29725.9 | 29622.6 | 29423.5 | 29427.3 | 29415.9 | 29308.7 | 29526.9 | 29511.6 | 29465.6 | 29297.2 |
| 7.5°  | 28370.9 | 28520.2 | 28145.1 | 28137.4 | 28129.8 | 27999.6 | 28286.7 | 28110.6 | 28148.9 | 27907.8 |
| 10°   | 26388.2 | 26407.3 | 26074.3 | 26043.7 | 26070.5 | 25902.0 | 26235.0 | 26166.1 | 26238.9 | 25986.2 |
| 12.5° | 23957.6 | 24064.7 | 23697.3 | 23643.7 | 23750.9 | 23513.6 | 23781.5 | 23815.9 | 23708.8 | 23674.3 |
| 15°   | 18790.2 | 19073.4 | 19770.1 | 20834.2 | 21109.8 | 20910.7 | 21125.1 | 21121.2 | 21167.2 | 20906.9 |
| 17.5° | 14315.6 | 14342.4 | 14177.8 | 14686.9 | 17634.2 | 18591.1 | 18637.1 | 18273.4 | 17997.8 | 17902.1 |
| 20°   | 12497.4 | 12589.3 | 12440.0 | 12482.1 | 12952.9 | 15758.6 | 15865.8 | 15318.4 | 14847.6 | 14809.4 |
| 22.5° | 11050.6 | 11108.0 | 11000.8 | 11035.3 | 11058.2 | 11387.4 | 13251.5 | 12769.2 | 12543.4 | 12371.1 |
| 25°   | 9825.7  | 9825.7  | 9768.3  | 9779.8  | 9756.8  | 9270.7  | 10227.6 | 10778.8 | 10648.7 | 10587.4 |
| 27.5° | 8708.0  | 8723.3  | 8650.6  | 8692.7  | 8413.3  | 7628.6  | 7513.8  | 9140.5  | 9002.7  | 8891.7  |
| 30°   | 7647.7  | 7697.5  | 7628.6  | 7651.6  | 7043.0  | 6399.9  | 6070.7  | 7624.8  | 7797.0  | 7766.4  |
| 32.5° | 5756.9  | 5982.7  | 6537.7  | 6560.7  | 5733.9  | 5240.1  | 5094.7  | 6120.5  | 6775.0  | 6717.6  |
| 35°   | 3567.4  | 3555.9  | 3578.9  | 4681.3  | 4398.0  | 4061.2  | 4114.8  | 4623.9  | 5362.6  | 5335.8  |
| 37.5° | 2721.5  | 2717.7  | 2759.8  | 2648.8  | 2882.3  | 3081.3  | 3123.4  | 3123.4  | 3915.7  | 3919.6  |
| 40°   | 2063.1  | 2047.8  | 2044.0  | 1867.9  | 1565.5  | 2311.9  | 2243.0  | 2185.6  | 2721.5  | 2778.9  |
| 42.5° | 1316.7  | 1362.7  | 1328.2  | 1136.8  | 1022.0  | 1263.1  | 1408.6  | 1362.7  | 1680.4  | 1722.5  |
| 45°   | 734.9   | 734.9   | 704.3   | 597.1   | 593.3   | 639.2   | 803.8   | 750.2   | 861.2   | 918.6   |
| 47.5° | 356.0   | 348.3   | 382.8   | 470.8   | 489.9   | 474.6   | 574.2   | 597.1   | 650.7   | 704.3   |
| 50°   | 287.1   | 287.1   | 271.8   | 245.0   | 405.7   | 390.4   | 424.9   | 455.5   | 486.1   | 532.1   |
| 52.5° | 241.1   | 241.1   | 222.0   | 206.7   | 233.5   | 298.6   | 302.4   | 359.8   | 356.0   | 421.0   |
| 55°   | 122.5   | 126.3   | 179.9   | 179.9   | 156.9   | 245.0   | 248.8   | 290.9   | 298.6   | 352.1   |
| 57.5° | 11.5    | 15.3    | 23.0    | 111.0   | 122.5   | 134.0   | 187.6   | 214.4   | 248.8   | 271.8   |
| 60°   | 3.8     | 3.8     | 7.7     | 15.3    | 72.7    | 91.9    | 118.7   | 141.6   | 172.2   | 225.8   |
| 62.5° | 0.0     | 0.0     | 3.8     | 7.7     | 15.3    | 57.4    | 65.1    | 72.7    | 103.3   | 141.6   |
| 65°   | 0.0     | 0.0     | 3.8     | 3.8     | 7.7     | 19.1    | 26.8    | 45.9    | 65.1    | 88.0    |
| 67.5° | 0.0     | 0.0     | 3.8     | 3.8     | 7.7     | 11.5    | 15.3    | 23.0    | 30.6    | 57.4    |
| 70°   | 0.0     | 0.0     | 3.8     | 3.8     | 7.7     | 11.5    | 11.5    | 15.3    | 19.1    | 26.8    |
| 72.5° | 0.0     | 0.0     | 3.8     | 3.8     | 7.7     | 15.3    | 11.5    | 11.5    | 15.3    | 19.1    |
| 75°   | 0.0     | 0.0     | 3.8     | 3.8     | 7.7     | 11.5    | 11.5    | 11.5    | 11.5    | 11.5    |
| 77.5° | 0.0     | 0.0     | 3.8     | 3.8     | 7.7     | 11.5    | 11.5    | 11.5    | 7.7     | 7.7     |
| 80°   | 0.0     | 0.0     | 3.8     | 3.8     | 7.7     | 11.5    | 15.3    | 15.3    | 7.7     | 7.7     |
| 82.5° | 0.0     | 0.0     | 3.8     | 7.7     | 7.7     | 19.1    | 23.0    | 19.1    | 7.7     | 3.8     |
| 85°   | 0.0     | 0.0     | 3.8     | 3.8     | 11.5    | 19.1    | 19.1    | 11.5    | 7.7     | 3.8     |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.8     | 3.8     | 7.7     | 11.5    | 11.5    | 3.8     | 3.8     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 30085.7 | 0°    | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 | 30085.7 |
| 29902.0 | 2.5°  | 29886.7 | 30120.2 | 30227.3 | 30116.3 | 30062.7 | 29986.2 | 29875.2 | 29798.6 | 29813.9 |
| 29205.3 | 5°    | 29140.3 | 29385.2 | 29469.5 | 29373.8 | 29293.4 | 29251.3 | 29232.1 | 29270.4 | 29369.9 |
| 27804.4 | 7.5°  | 27796.7 | 27953.7 | 28045.5 | 27999.6 | 27888.6 | 28014.9 | 28049.4 | 28026.4 | 28171.9 |
| 25909.7 | 10°   | 25917.3 | 26089.6 | 26005.4 | 26024.5 | 25894.4 | 25959.5 | 25940.3 | 26024.5 | 26170.0 |
| 23647.5 | 12.5° | 23494.4 | 23659.0 | 23593.9 | 23582.5 | 23444.7 | 23567.1 | 23490.6 | 23582.5 | 23773.8 |
| 20799.7 | 15°   | 20949.0 | 21052.3 | 21010.2 | 20945.2 | 20822.7 | 20864.8 | 21102.1 | 21086.8 | 21171.0 |
| 17844.7 | 17.5° | 17768.2 | 18265.8 | 18537.5 | 18595.0 | 18495.4 | 18579.6 | 18748.1 | 18706.0 | 18897.3 |
| 14729.0 | 20°   | 14702.2 | 15203.6 | 15873.5 | 16417.0 | 16428.5 | 16440.0 | 16547.1 | 16573.9 | 16738.5 |
| 12374.9 | 22.5° | 12321.4 | 12677.3 | 13396.9 | 14116.6 | 14614.2 | 14717.5 | 14706.0 | 14744.3 | 14790.2 |
| 10503.2 | 25°   | 10476.4 | 10736.7 | 11395.1 | 11892.7 | 12765.4 | 13056.3 | 13140.5 | 13056.3 | 13083.1 |
| 8853.5  | 27.5° | 8953.0  | 9351.1  | 9569.2  | 10101.3 | 10954.9 | 11628.5 | 11601.8 | 11552.0 | 11559.6 |
| 7705.2  | 30°   | 7701.3  | 8130.0  | 8451.6  | 8612.3  | 9255.4  | 10227.6 | 10327.1 | 10185.5 | 10189.3 |
| 6690.8  | 32.5° | 6648.7  | 6782.7  | 7257.3  | 7387.5  | 7800.8  | 8685.0  | 9025.7  | 8918.5  | 8899.4  |
| 5351.1  | 35°   | 5508.1  | 5580.8  | 5799.0  | 6055.4  | 6300.4  | 6970.2  | 7532.9  | 7433.4  | 7483.2  |
| 3934.9  | 37.5° | 3919.6  | 4218.1  | 4428.6  | 4639.2  | 4815.2  | 5236.3  | 5913.8  | 5821.9  | 5871.7  |
| 2786.6  | 40°   | 2763.6  | 2897.6  | 3261.2  | 3353.1  | 3613.3  | 3808.6  | 4382.7  | 4352.1  | 4413.3  |
| 1730.1  | 42.5° | 1699.5  | 1795.2  | 1978.9  | 2067.0  | 2243.0  | 2354.0  | 2690.9  | 2729.1  | 2809.5  |
| 956.9   | 45°   | 964.6   | 1006.7  | 1133.0  | 1228.7  | 1358.8  | 1404.8  | 1523.4  | 1577.0  | 1622.9  |
| 742.6   | 47.5° | 734.9   | 780.9   | 865.1   | 949.3   | 1056.4  | 1094.7  | 1178.9  | 1259.3  | 1301.4  |
| 574.2   | 50°   | 600.9   | 643.1   | 731.1   | 800.0   | 907.2   | 941.6   | 1010.5  | 1098.5  | 1152.1  |
| 436.4   | 52.5° | 455.5   | 516.7   | 623.9   | 696.6   | 807.6   | 849.7   | 914.8   | 1002.9  | 1052.6  |
| 359.8   | 55°   | 375.1   | 421.0   | 516.7   | 616.3   | 719.6   | 777.0   | 819.1   | 926.3   | 979.9   |
| 294.7   | 57.5° | 321.5   | 356.0   | 417.2   | 535.9   | 623.9   | 708.1   | 742.6   | 842.1   | 895.7   |
| 233.5   | 60°   | 245.0   | 298.6   | 352.1   | 444.0   | 543.5   | 631.6   | 669.8   | 757.9   | 800.0   |
| 168.4   | 62.5° | 202.9   | 237.3   | 306.2   | 356.0   | 467.0   | 558.8   | 597.1   | 677.5   | 708.1   |
| 111.0   | 65°   | 141.6   | 191.4   | 256.5   | 287.1   | 390.4   | 478.5   | 532.1   | 593.3   | 623.9   |
| 65.1    | 67.5° | 84.2    | 141.6   | 202.9   | 245.0   | 317.7   | 405.7   | 463.2   | 520.6   | 547.4   |
| 38.3    | 70°   | 53.6    | 111.0   | 160.8   | 206.7   | 248.8   | 333.0   | 401.9   | 451.7   | 440.2   |
| 23.0    | 72.5° | 30.6    | 68.9    | 118.7   | 168.4   | 206.7   | 279.4   | 344.5   | 382.8   | 271.8   |
| 15.3    | 75°   | 19.1    | 49.8    | 99.5    | 137.8   | 168.4   | 222.0   | 283.2   | 290.9   | 168.4   |
| 7.7     | 77.5° | 15.3    | 38.3    | 76.6    | 111.0   | 114.8   | 164.6   | 199.0   | 225.8   | 126.3   |
| 7.7     | 80°   | 7.7     | 30.6    | 65.1    | 91.9    | 72.7    | 114.8   | 153.1   | 176.1   | 99.5    |
| 3.8     | 82.5° | 7.7     | 19.1    | 49.8    | 65.1    | 53.6    | 88.0    | 111.0   | 126.3   | 84.2    |
| 3.8     | 85°   | 3.8     | 15.3    | 26.8    | 38.3    | 38.3    | 57.4    | 49.8    | 61.2    | 53.6    |
| 3.8     | 87.5° | 3.8     | 7.7     | 15.3    | 19.1    | 15.3    | 23.0    | 26.8    | 26.8    | 23.0    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 30085.7 |
| 30020.6 |
| 29576.6 |
| 28317.3 |
| 26227.4 |
| 23808.3 |
| 21190.1 |
| 18866.7 |
| 16704.1 |
| 14706.0 |
| 13041.0 |
| 11571.1 |
| 10193.2 |
| 8945.3  |
| 7529.1  |
| 5913.8  |
| 4436.3  |
| 2901.4  |
| 1619.1  |
| 1320.6  |
| 1175.1  |
| 1087.1  |
| 995.2   |
| 918.6   |
| 807.6   |
| 712.0   |
| 623.9   |
| 543.5   |
| 405.7   |
| 241.1   |
| 156.9   |
| 126.3   |
| 103.3   |
| 91.9    |
| 53.6    |
| 19.1    |
| 0.0     |

(END OF REPORT)