

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: P636553

Luminaire Tested: **IFLD-M-SA4E-950-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P636553  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-950-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (64) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21648.2 lumens  
Efficiency: N/A  
Efficacy: 68.8 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): 314.8  
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



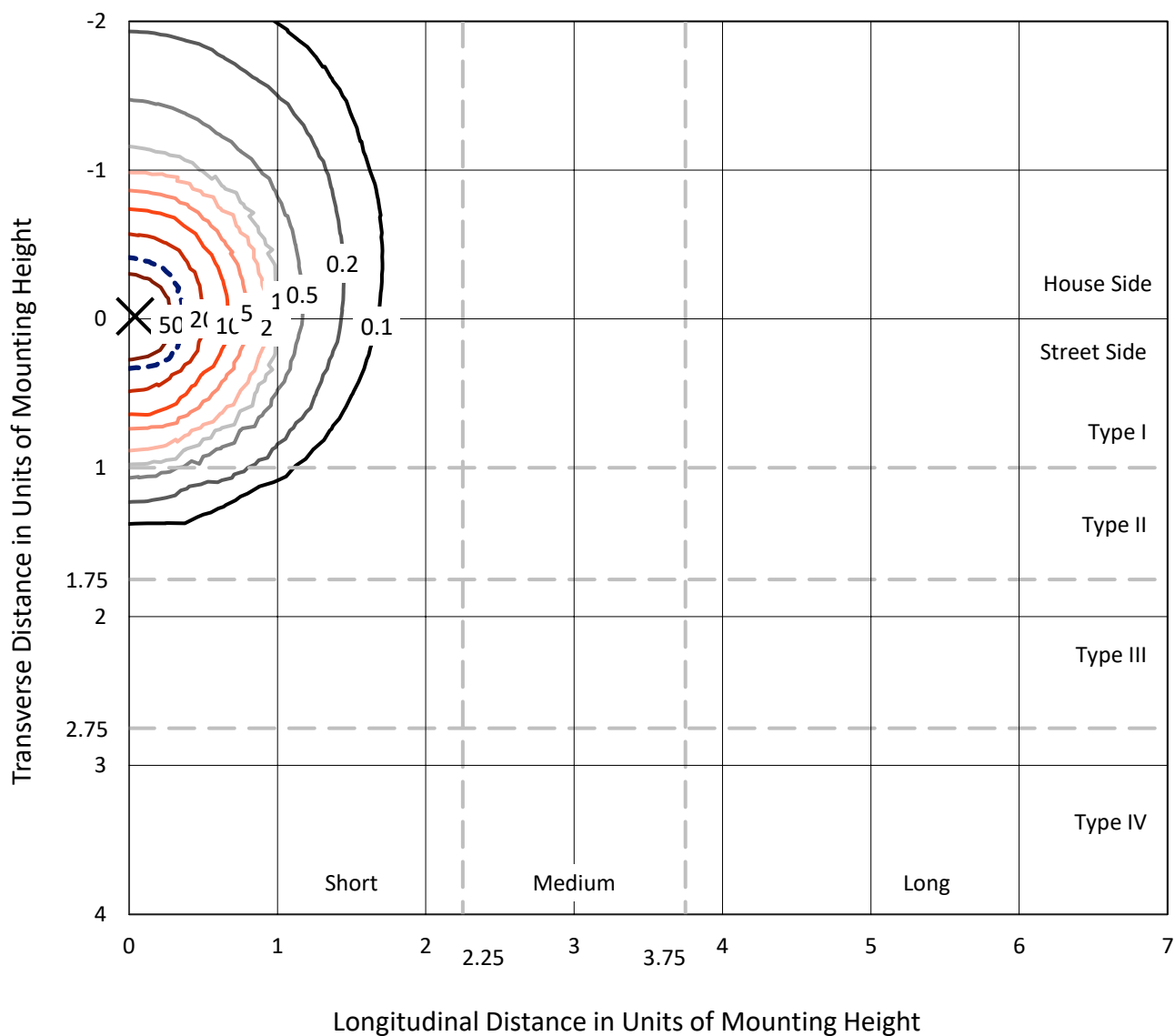
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

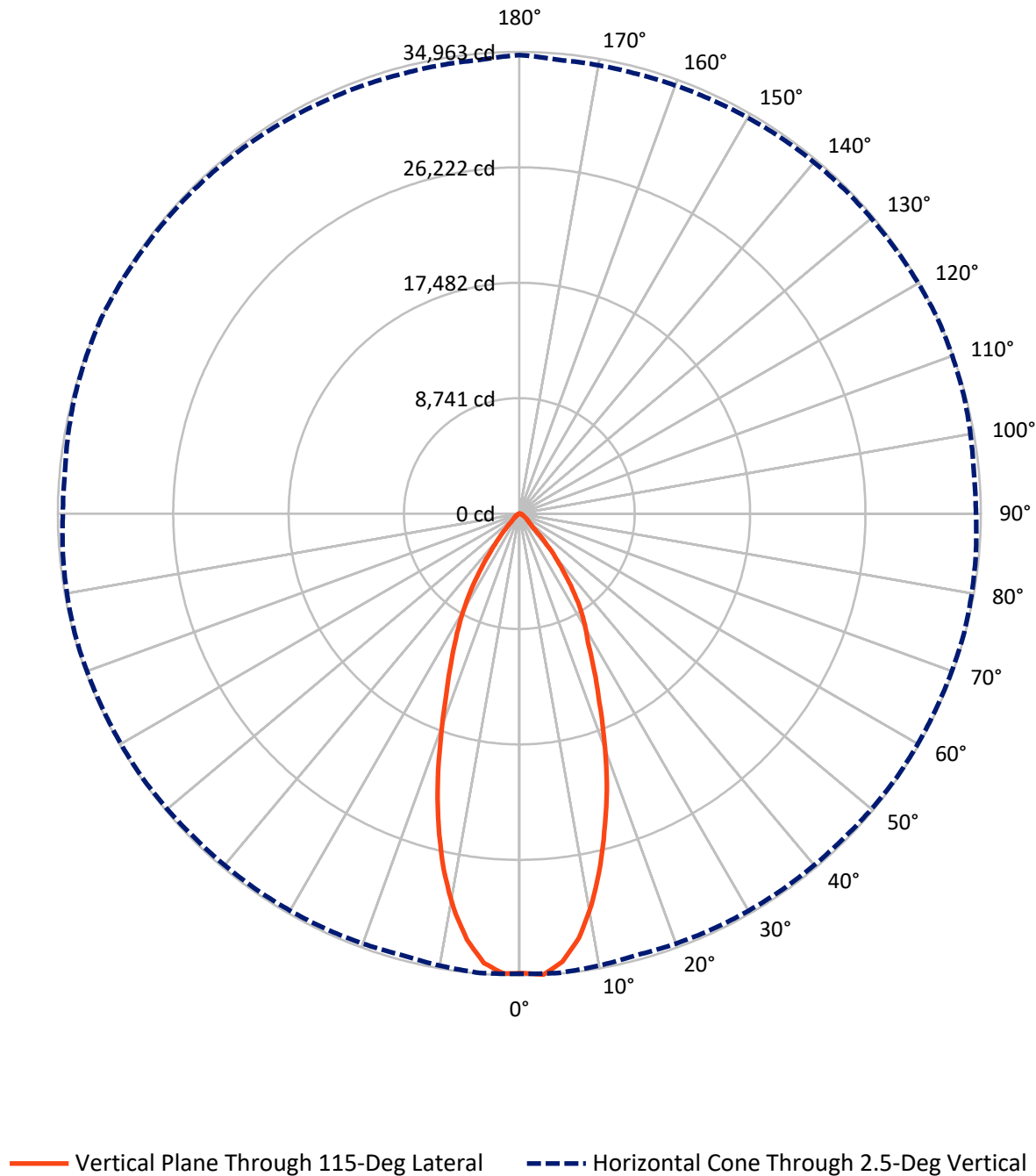


Based on 20 foot mounting height. Maximum calculated value = 87 fc

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    | 11947.3  | 0.0    | 11947.3 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 9700.9   | 0.0    | 9700.9  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 21648.2  | 0.0    | 21648.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3121.2  | 14.4      |
| 10°-20°   | 6596.7  | 30.5      |
| 20°-30°   | 5953.9  | 27.5      |
| 30°-40°   | 3940.1  | 18.2      |
| 40°-50°   | 1180.3  | 5.5       |
| 50°-60°   | 473.5   | 2.2       |
| 60°-70°   | 245.2   | 1.1       |
| 70°-80°   | 106.4   | 0.5       |
| 80°-90°   | 31.0    | 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°    | 21648.2 | 100.0     |
| 0°-180°   | 21648.2 | 100.0     |

**Coefficient of Utilization**



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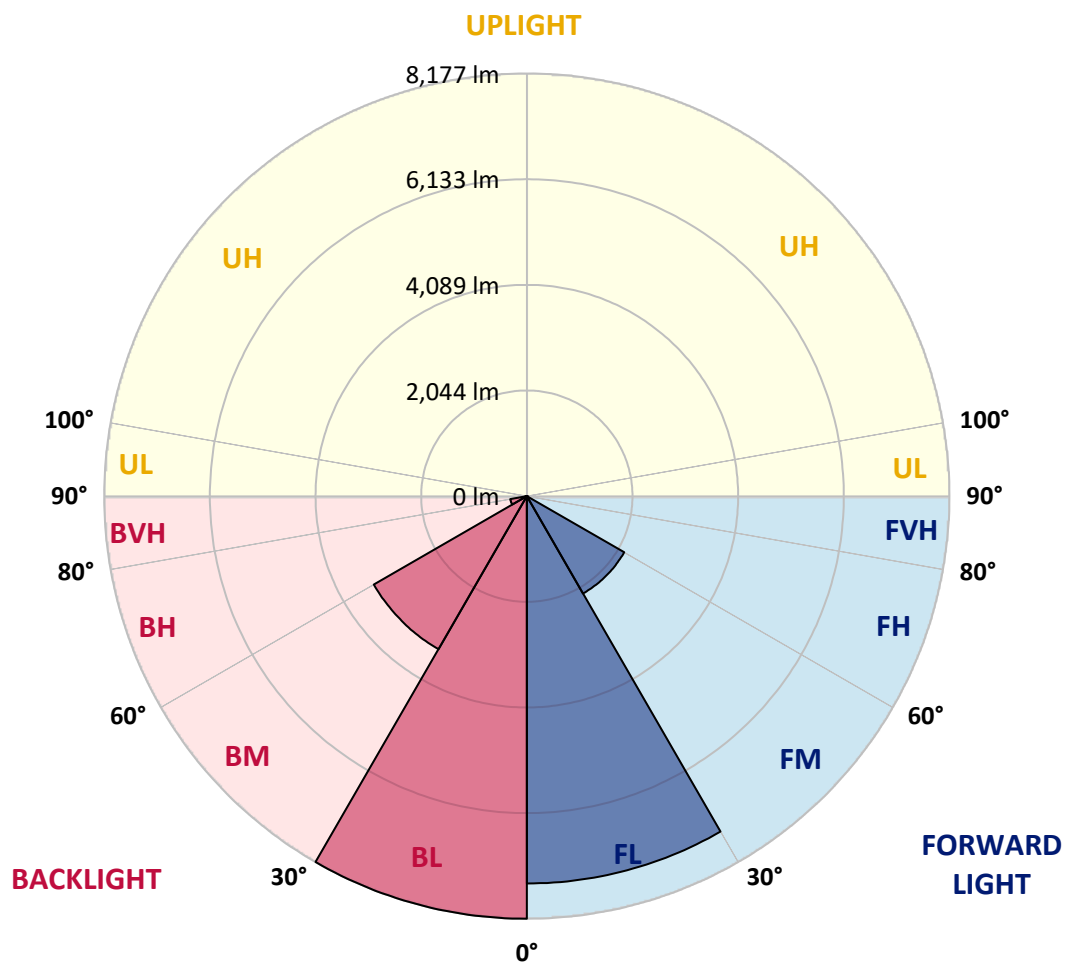
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 7494.8 | 34.6      |                         |      |        |
| FM   | (30°-60°)   | 2174.8 | 10.0      |                         |      |        |
| FH   | (60°-80°)   | 26.9   | 0.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 4.5    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 8177.1 | 37.8      | B5                      |      |        |
| BM   | (30°-60°)   | 3419.0 | 15.8      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 324.7  | 1.5       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 26.5   | 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°    | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 |
| 2.5°  | 34843.7 | 34905.7 | 34595.8 | 34702.0 | 34746.3 | 34759.6 | 34870.3 | 34852.6 | 34883.6 | 34719.8 |
| 5°    | 34383.3 | 34263.7 | 34033.5 | 34037.9 | 34024.6 | 33900.7 | 34153.0 | 34135.3 | 34082.2 | 33887.4 |
| 7.5°  | 32816.0 | 32988.6 | 32554.7 | 32545.9 | 32537.0 | 32386.5 | 32718.6 | 32514.9 | 32559.2 | 32280.2 |
| 10°   | 30522.6 | 30544.7 | 30159.5 | 30124.1 | 30155.1 | 29960.3 | 30345.5 | 30265.8 | 30349.9 | 30057.7 |
| 12.5° | 27711.2 | 27835.1 | 27410.1 | 27348.1 | 27472.1 | 27197.6 | 27507.5 | 27547.3 | 27423.4 | 27383.5 |
| 15°   | 21734.2 | 22061.8 | 22867.6 | 24098.4 | 24417.2 | 24186.9 | 24434.9 | 24430.5 | 24483.6 | 24182.5 |
| 17.5° | 16558.5 | 16589.5 | 16399.1 | 16988.0 | 20397.1 | 21503.9 | 21557.1 | 21136.5 | 20817.7 | 20707.0 |
| 20°   | 14455.5 | 14561.8 | 14389.1 | 14437.8 | 14982.4 | 18227.6 | 18351.6 | 17718.5 | 17173.9 | 17129.7 |
| 22.5° | 12781.9 | 12848.3 | 12724.4 | 12764.2 | 12790.8 | 13171.5 | 15327.7 | 14769.8 | 14508.6 | 14309.4 |
| 25°   | 11365.2 | 11365.2 | 11298.8 | 11312.0 | 11285.5 | 10723.2 | 11830.0 | 12467.6 | 12317.1 | 12246.2 |
| 27.5° | 10072.4 | 10090.1 | 10005.9 | 10054.6 | 9731.4  | 8823.8  | 8691.0  | 10572.7 | 10413.3 | 10284.9 |
| 30°   | 8846.0  | 8903.5  | 8823.8  | 8850.4  | 8146.4  | 7402.6  | 7021.9  | 8819.4  | 9018.6  | 8983.2  |
| 32.5° | 6658.8  | 6920.0  | 7562.0  | 7588.6  | 6632.3  | 6061.1  | 5892.9  | 7079.4  | 7836.5  | 7770.1  |
| 35°   | 4126.3  | 4113.1  | 4139.6  | 5414.7  | 5087.1  | 4697.5  | 4759.5  | 5348.3  | 6202.8  | 6171.8  |
| 37.5° | 3147.9  | 3143.5  | 3192.2  | 3063.8  | 3333.8  | 3564.1  | 3612.8  | 3612.8  | 4529.2  | 4533.7  |
| 40°   | 2386.4  | 2368.7  | 2364.2  | 2160.6  | 1810.8  | 2674.2  | 2594.5  | 2528.1  | 3147.9  | 3214.3  |
| 42.5° | 1523.0  | 1576.2  | 1536.3  | 1314.9  | 1182.1  | 1461.0  | 1629.3  | 1576.2  | 1943.6  | 1992.3  |
| 45°   | 850.1   | 850.1   | 814.6   | 690.7   | 686.2   | 739.4   | 929.8   | 867.8   | 996.2   | 1062.6  |
| 47.5° | 411.7   | 402.9   | 442.7   | 544.6   | 566.7   | 549.0   | 664.1   | 690.7   | 752.7   | 814.6   |
| 50°   | 332.1   | 332.1   | 314.3   | 283.4   | 469.3   | 451.6   | 491.4   | 526.9   | 562.3   | 615.4   |
| 52.5° | 278.9   | 278.9   | 256.8   | 239.1   | 270.1   | 345.3   | 349.8   | 416.2   | 411.7   | 487.0   |
| 55°   | 141.7   | 146.1   | 208.1   | 208.1   | 181.5   | 283.4   | 287.8   | 336.5   | 345.3   | 407.3   |
| 57.5° | 13.3    | 17.7    | 26.6    | 128.4   | 141.7   | 155.0   | 216.9   | 247.9   | 287.8   | 314.3   |
| 60°   | 4.4     | 4.4     | 8.9     | 17.7    | 84.1    | 106.3   | 137.2   | 163.8   | 199.2   | 261.2   |
| 62.5° | 0.0     | 0.0     | 4.4     | 8.9     | 17.7    | 66.4    | 75.3    | 84.1    | 119.5   | 163.8   |
| 65°   | 0.0     | 0.0     | 4.4     | 4.4     | 8.9     | 22.1    | 31.0    | 53.1    | 75.3    | 101.8   |
| 67.5° | 0.0     | 0.0     | 4.4     | 4.4     | 8.9     | 13.3    | 17.7    | 26.6    | 35.4    | 66.4    |
| 70°   | 0.0     | 0.0     | 4.4     | 4.4     | 8.9     | 13.3    | 13.3    | 17.7    | 22.1    | 31.0    |
| 72.5° | 0.0     | 0.0     | 4.4     | 4.4     | 8.9     | 17.7    | 13.3    | 13.3    | 17.7    | 22.1    |
| 75°   | 0.0     | 0.0     | 4.4     | 4.4     | 8.9     | 13.3    | 13.3    | 13.3    | 13.3    | 13.3    |
| 77.5° | 0.0     | 0.0     | 4.4     | 4.4     | 8.9     | 13.3    | 13.3    | 13.3    | 8.9     | 8.9     |
| 80°   | 0.0     | 0.0     | 4.4     | 4.4     | 8.9     | 13.3    | 17.7    | 17.7    | 8.9     | 8.9     |
| 82.5° | 0.0     | 0.0     | 4.4     | 8.9     | 8.9     | 22.1    | 26.6    | 22.1    | 8.9     | 4.4     |
| 85°   | 0.0     | 0.0     | 4.4     | 4.4     | 13.3    | 22.1    | 22.1    | 13.3    | 8.9     | 4.4     |
| 87.5° | 0.0     | 0.0     | 0.0     | 4.4     | 4.4     | 8.9     | 13.3    | 13.3    | 4.4     | 4.4     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 34799.4 | 0°    | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 | 34799.4 |
| 34586.9 | 2.5°  | 34569.2 | 34839.3 | 34963.3 | 34834.9 | 34772.9 | 34684.3 | 34555.9 | 34467.4 | 34485.1 |
| 33781.1 | 5°    | 33705.9 | 33989.2 | 34086.6 | 33975.9 | 33883.0 | 33834.3 | 33812.1 | 33856.4 | 33971.5 |
| 32160.7 | 7.5°  | 32151.9 | 32333.4 | 32439.6 | 32386.5 | 32258.1 | 32404.2 | 32444.1 | 32417.5 | 32585.7 |
| 29969.1 | 10°   | 29978.0 | 30177.2 | 30079.8 | 30102.0 | 29951.4 | 30026.7 | 30004.6 | 30102.0 | 30270.2 |
| 27352.5 | 12.5° | 27175.4 | 27365.8 | 27290.6 | 27277.3 | 27117.9 | 27259.6 | 27171.0 | 27277.3 | 27498.6 |
| 24058.5 | 15°   | 24231.2 | 24350.8 | 24302.1 | 24226.8 | 24085.1 | 24133.8 | 24408.3 | 24390.6 | 24488.0 |
| 20640.6 | 17.5° | 20552.0 | 21127.6 | 21441.9 | 21508.4 | 21393.2 | 21490.7 | 21685.5 | 21636.8 | 21858.1 |
| 17036.7 | 20°   | 17005.7 | 17585.7 | 18360.5 | 18989.2 | 19002.4 | 19015.7 | 19139.7 | 19170.7 | 19361.1 |
| 14313.8 | 22.5° | 14251.8 | 14663.6 | 15495.9 | 16328.3 | 16903.9 | 17023.4 | 17010.1 | 17054.4 | 17107.5 |
| 12148.8 | 25°   | 12117.8 | 12418.9 | 13180.4 | 13756.0 | 14765.4 | 15101.9 | 15199.3 | 15101.9 | 15132.9 |
| 10240.6 | 27.5° | 10355.7 | 10816.2 | 11068.5 | 11683.9 | 12671.2 | 13450.5 | 13419.5 | 13361.9 | 13370.8 |
| 8912.4  | 30°   | 8907.9  | 9403.8  | 9775.7  | 9961.7  | 10705.5 | 11830.0 | 11945.2 | 11781.3 | 11785.8 |
| 7739.1  | 32.5° | 7690.4  | 7845.4  | 8394.4  | 8544.9  | 9023.1  | 10045.8 | 10439.8 | 10315.9 | 10293.7 |
| 6189.5  | 35°   | 6371.0  | 6455.2  | 6707.5  | 7004.2  | 7287.5  | 8062.3  | 8713.1  | 8598.0  | 8655.6  |
| 4551.4  | 37.5° | 4533.7  | 4879.0  | 5122.5  | 5366.0  | 5569.7  | 6056.7  | 6840.3  | 6734.1  | 6791.6  |
| 3223.2  | 40°   | 3196.6  | 3351.5  | 3772.2  | 3878.4  | 4179.5  | 4405.3  | 5069.4  | 5034.0  | 5104.8  |
| 2001.2  | 42.5° | 1965.8  | 2076.5  | 2289.0  | 2390.8  | 2594.5  | 2722.9  | 3112.5  | 3156.7  | 3249.7  |
| 1106.9  | 45°   | 1115.7  | 1164.4  | 1310.5  | 1421.2  | 1571.7  | 1624.9  | 1762.1  | 1824.1  | 1877.2  |
| 858.9   | 47.5° | 850.1   | 903.2   | 1000.6  | 1098.0  | 1222.0  | 1266.2  | 1363.6  | 1456.6  | 1505.3  |
| 664.1   | 50°   | 695.1   | 743.8   | 845.6   | 925.3   | 1049.3  | 1089.1  | 1168.8  | 1270.7  | 1332.7  |
| 504.7   | 52.5° | 526.9   | 597.7   | 721.7   | 805.8   | 934.2   | 982.9   | 1058.2  | 1160.0  | 1217.5  |
| 416.2   | 55°   | 433.9   | 487.0   | 597.7   | 712.8   | 832.4   | 898.8   | 947.5   | 1071.4  | 1133.4  |
| 340.9   | 57.5° | 371.9   | 411.7   | 482.6   | 619.8   | 721.7   | 819.1   | 858.9   | 974.0   | 1036.0  |
| 270.1   | 60°   | 283.4   | 345.3   | 407.3   | 513.6   | 628.7   | 730.5   | 774.8   | 876.6   | 925.3   |
| 194.8   | 62.5° | 234.7   | 274.5   | 354.2   | 411.7   | 540.1   | 646.4   | 690.7   | 783.7   | 819.1   |
| 128.4   | 65°   | 163.8   | 221.4   | 296.6   | 332.1   | 451.6   | 553.4   | 615.4   | 686.2   | 721.7   |
| 75.3    | 67.5° | 97.4    | 163.8   | 234.7   | 283.4   | 367.5   | 469.3   | 535.7   | 602.1   | 633.1   |
| 44.3    | 70°   | 62.0    | 128.4   | 186.0   | 239.1   | 287.8   | 385.2   | 464.9   | 522.4   | 509.2   |
| 26.6    | 72.5° | 35.4    | 79.7    | 137.2   | 194.8   | 239.1   | 323.2   | 398.5   | 442.7   | 314.3   |
| 17.7    | 75°   | 22.1    | 57.6    | 115.1   | 159.4   | 194.8   | 256.8   | 327.6   | 336.5   | 194.8   |
| 8.9     | 77.5° | 17.7    | 44.3    | 88.5    | 128.4   | 132.8   | 190.4   | 230.2   | 261.2   | 146.1   |
| 8.9     | 80°   | 8.9     | 35.4    | 75.3    | 106.3   | 84.1    | 132.8   | 177.1   | 203.7   | 115.1   |
| 4.4     | 82.5° | 8.9     | 22.1    | 57.6    | 75.3    | 62.0    | 101.8   | 128.4   | 146.1   | 97.4    |
| 4.4     | 85°   | 4.4     | 17.7    | 31.0    | 44.3    | 44.3    | 66.4    | 57.6    | 70.8    | 62.0    |
| 4.4     | 87.5° | 4.4     | 8.9     | 17.7    | 22.1    | 17.7    | 26.6    | 31.0    | 31.0    | 26.6    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 34799.4 |
| 34724.2 |
| 34210.6 |
| 32754.0 |
| 30336.6 |
| 27538.5 |
| 24510.1 |
| 21822.7 |
| 19321.2 |
| 17010.1 |
| 15084.2 |
| 13384.1 |
| 11790.2 |
| 10346.9 |
| 8708.7  |
| 6840.3  |
| 5131.4  |
| 3356.0  |
| 1872.8  |
| 1527.5  |
| 1359.2  |
| 1257.4  |
| 1151.1  |
| 1062.6  |
| 934.2   |
| 823.5   |
| 721.7   |
| 628.7   |
| 469.3   |
| 278.9   |
| 181.5   |
| 146.1   |
| 119.5   |
| 106.3   |
| 62.0    |
| 22.1    |
| 0.0     |

(END OF REPORT)