

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: P637571

Luminaire Tested: **IFLD-L-SA7C-727-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637571  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-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: 34825 lumens  
Efficiency: N/A  
Efficacy: 94.4 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): 369  
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



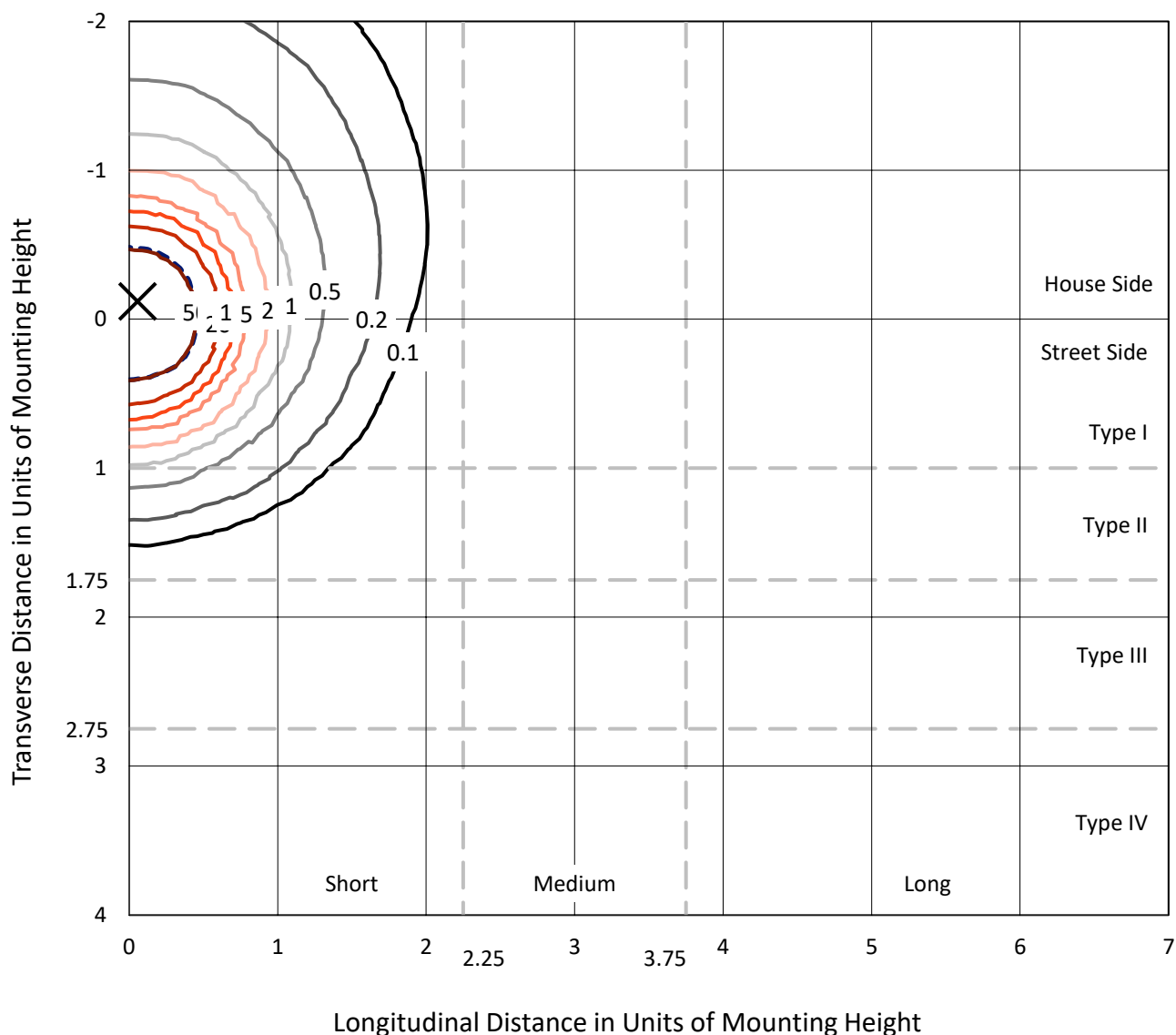
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

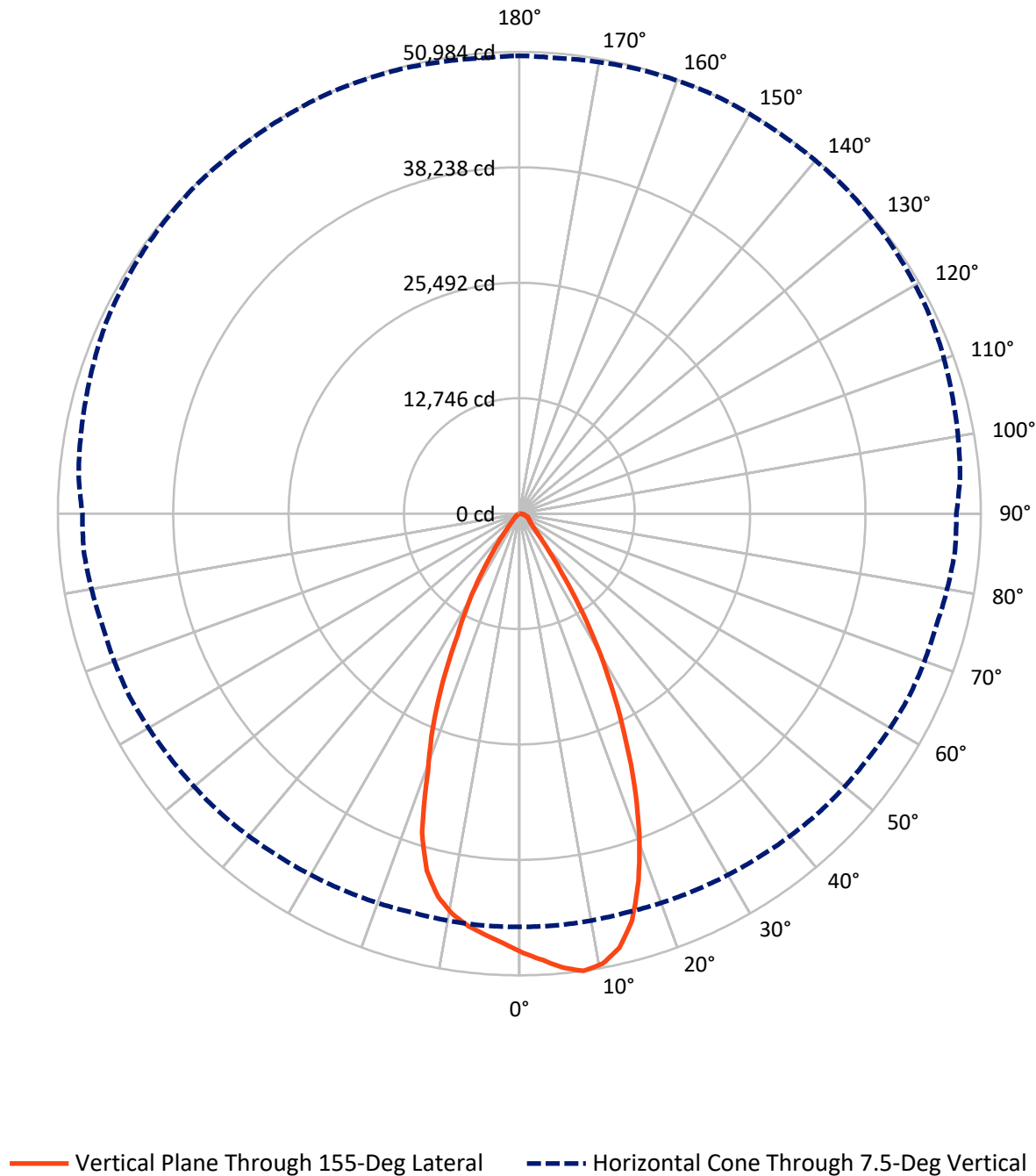


Based on 20 foot mounting height. Maximum calculated value = 123.3 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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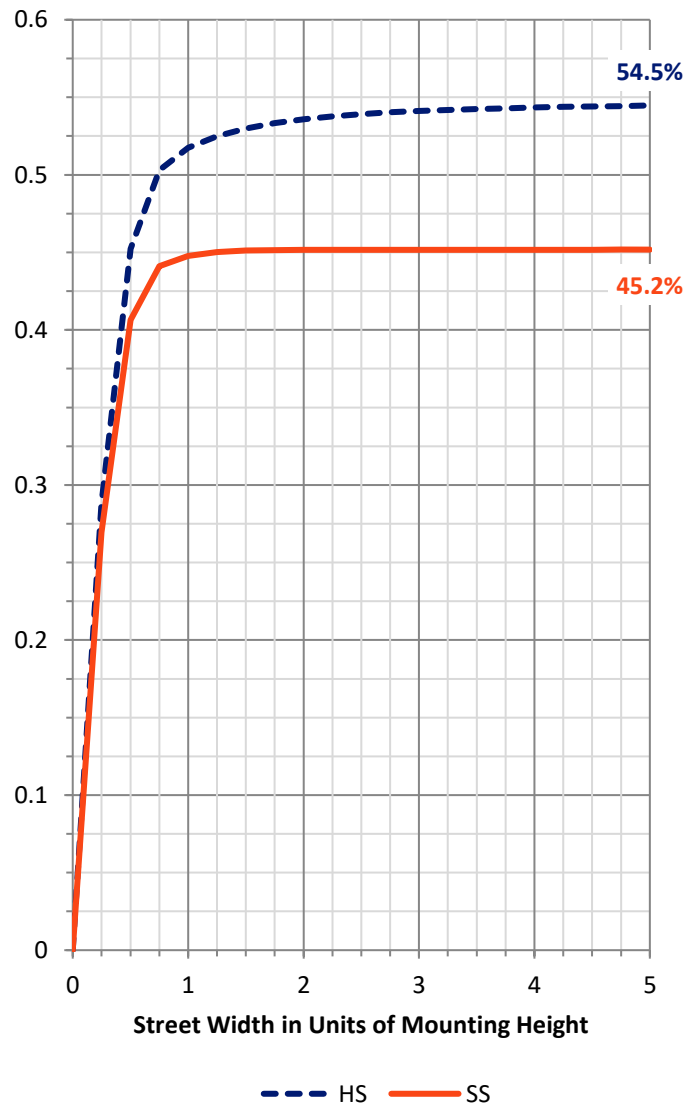
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19224.7  | 0.0    | 19224.7 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 15600.3  | 0.0    | 15600.3 |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 34825.0  | 0.0    | 34825.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 4626.1  | 13.3      |
| 10°-20°   | 11995.6 | 34.4      |
| 20°-30°   | 10991.3 | 31.6      |
| 30°-40°   | 4440.5  | 12.8      |
| 40°-50°   | 1302.6  | 3.7       |
| 50°-60°   | 728.3   | 2.1       |
| 60°-70°   | 442.4   | 1.3       |
| 70°-80°   | 224.8   | 0.6       |
| 80°-90°   | 73.5    | 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°    | 34825.0 | 100.0     |
| 0°-180°   | 34825.0 | 100.0     |

**Coefficient of Utilization**



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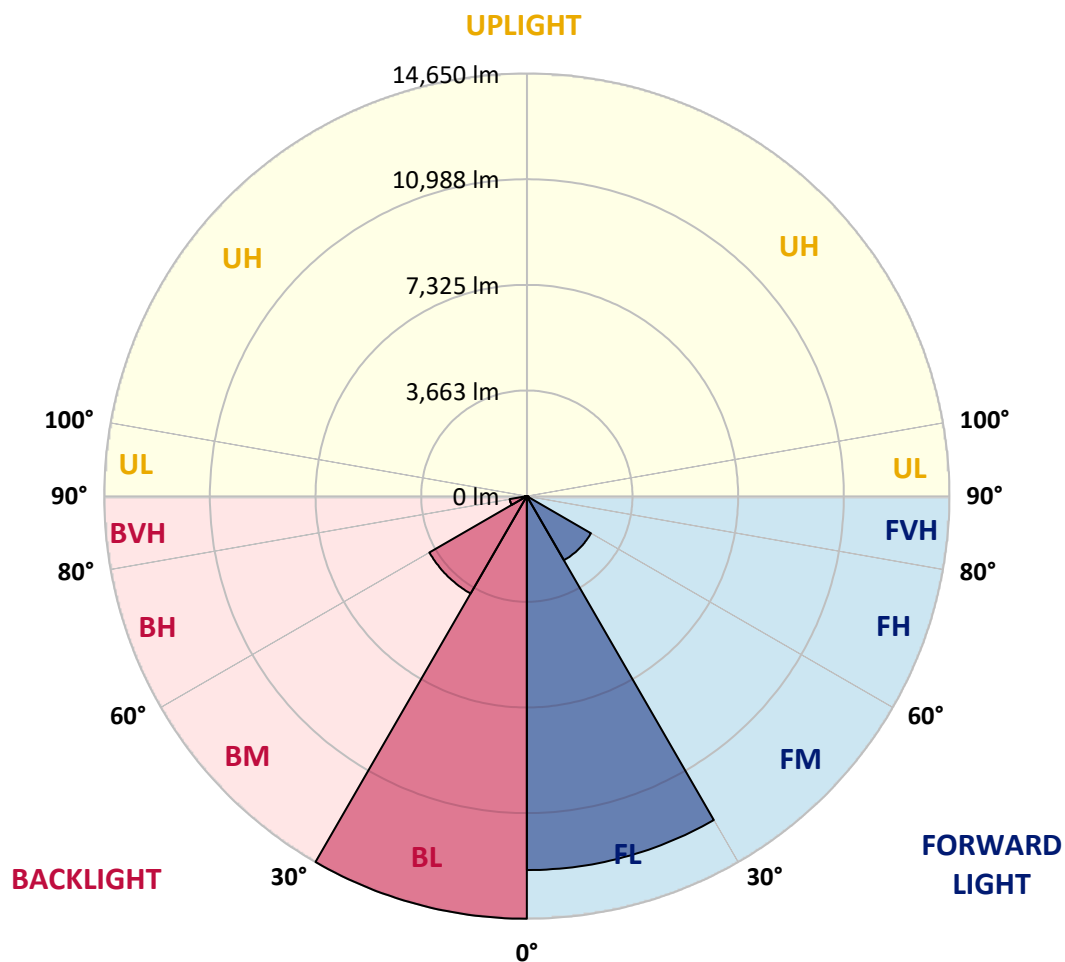
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 12962.8 | 37.2      |                         |      |         |
| FM   | (30°-60°)   | 2569.0  | 7.4       |                         |      |         |
| FH   | (60°-80°)   | 62.2    | 0.2       |                         |      | G0/660  |
| FVH  | (80°-90°)   | 6.4     | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 14650.2 | 42.1      | B5                      |      |         |
| BM   | (30°-60°)   | 3902.5  | 11.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 604.9   | 1.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 67.1    | 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°    | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 |
| 2.5°  | 47461.9 | 47622.5 | 47301.2 | 47514.1 | 47678.7 | 48072.3 | 48104.4 | 48240.9 | 48289.1 | 48646.5 |
| 5°    | 46562.3 | 46686.8 | 46425.8 | 46710.9 | 46943.8 | 47293.2 | 47562.3 | 47939.7 | 48148.6 | 48570.2 |
| 7.5°  | 45626.7 | 45654.8 | 45602.6 | 45903.8 | 46253.1 | 46735.0 | 47068.3 | 47562.3 | 47690.8 | 48293.1 |
| 10°   | 44494.2 | 44289.4 | 44389.8 | 44831.6 | 45353.6 | 46092.5 | 46321.4 | 46815.3 | 47044.2 | 47658.6 |
| 12.5° | 42687.2 | 42791.6 | 42667.1 | 43229.3 | 43663.0 | 44502.3 | 44743.2 | 45241.2 | 45678.9 | 46221.0 |
| 15°   | 40141.2 | 40081.0 | 40334.0 | 40771.7 | 41241.5 | 41908.1 | 42297.6 | 42839.8 | 43173.1 | 43735.3 |
| 17.5° | 34418.8 | 34623.6 | 35667.7 | 36764.0 | 37727.7 | 38506.8 | 38972.6 | 39422.4 | 39663.3 | 40273.7 |
| 20°   | 29724.4 | 29467.4 | 29608.0 | 30226.4 | 32969.1 | 34161.8 | 34651.7 | 34760.1 | 34860.5 | 35342.4 |
| 22.5° | 24475.9 | 24391.5 | 24861.4 | 25556.1 | 26206.6 | 28957.4 | 29624.0 | 29371.0 | 29579.8 | 30033.6 |
| 25°   | 18175.2 | 18600.8 | 19018.5 | 20351.7 | 21195.0 | 22544.3 | 23809.2 | 23921.7 | 23998.0 | 24283.1 |
| 27.5° | 14793.9 | 14645.4 | 14637.3 | 15010.8 | 16255.7 | 17380.1 | 18456.3 | 18705.3 | 18661.1 | 18934.2 |
| 30°   | 11629.5 | 11581.4 | 11412.7 | 11501.0 | 11376.6 | 12376.5 | 12882.5 | 13906.5 | 13850.2 | 13858.3 |
| 32.5° | 8388.9  | 8208.1  | 8139.9  | 8272.4  | 8143.9  | 8051.5  | 8493.3  | 9649.8  | 9629.7  | 9710.0  |
| 35°   | 5075.9  | 5051.8  | 5108.0  | 5224.5  | 4967.5  | 4959.4  | 5051.8  | 6140.0  | 6272.6  | 6401.1  |
| 37.5° | 2803.0  | 2778.9  | 2823.1  | 3252.7  | 3168.4  | 3092.1  | 3116.2  | 3690.5  | 4071.9  | 4168.3  |
| 40°   | 1847.2  | 1843.2  | 1875.3  | 1951.6  | 2096.2  | 2068.1  | 2080.1  | 2337.2  | 2698.6  | 2782.9  |
| 42.5° | 1236.8  | 1240.9  | 1260.9  | 1349.3  | 1369.4  | 1513.9  | 1489.8  | 1550.1  | 1887.4  | 1959.7  |
| 45°   | 987.9   | 983.9   | 995.9   | 955.7   | 979.8   | 1128.4  | 1144.5  | 1148.5  | 1437.6  | 1481.8  |
| 47.5° | 779.1   | 779.1   | 791.1   | 738.9   | 726.8   | 819.2   | 903.5   | 915.6   | 1148.5  | 1208.7  |
| 50°   | 546.1   | 546.1   | 606.4   | 582.3   | 610.4   | 638.5   | 730.9   | 742.9   | 939.7   | 1003.9  |
| 52.5° | 401.6   | 409.6   | 417.6   | 421.7   | 514.0   | 510.0   | 590.3   | 646.5   | 710.8   | 823.2   |
| 55°   | 305.2   | 313.2   | 293.1   | 313.2   | 381.5   | 425.7   | 441.7   | 522.0   | 566.2   | 690.7   |
| 57.5° | 200.8   | 220.9   | 204.8   | 240.9   | 257.0   | 329.3   | 353.4   | 429.7   | 457.8   | 566.2   |
| 60°   | 28.1    | 32.1    | 52.2    | 168.7   | 180.7   | 216.8   | 273.1   | 341.3   | 369.4   | 461.8   |
| 62.5° | 4.0     | 4.0     | 12.0    | 28.1    | 120.5   | 144.6   | 204.8   | 236.9   | 273.1   | 345.4   |
| 65°   | 0.0     | 0.0     | 4.0     | 8.0     | 24.1    | 84.3    | 104.4   | 128.5   | 188.7   | 249.0   |
| 67.5° | 0.0     | 0.0     | 4.0     | 8.0     | 12.0    | 28.1    | 44.2    | 84.3    | 108.4   | 172.7   |
| 70°   | 0.0     | 0.0     | 4.0     | 8.0     | 12.0    | 16.1    | 24.1    | 32.1    | 64.3    | 100.4   |
| 72.5° | 0.0     | 0.0     | 4.0     | 8.0     | 12.0    | 16.1    | 20.1    | 24.1    | 28.1    | 64.3    |
| 75°   | 0.0     | 0.0     | 4.0     | 8.0     | 12.0    | 20.1    | 24.1    | 24.1    | 24.1    | 28.1    |
| 77.5° | 0.0     | 0.0     | 4.0     | 8.0     | 16.1    | 24.1    | 28.1    | 24.1    | 20.1    | 20.1    |
| 80°   | 0.0     | 0.0     | 4.0     | 12.0    | 20.1    | 28.1    | 32.1    | 24.1    | 16.1    | 12.0    |
| 82.5° | 0.0     | 0.0     | 4.0     | 12.0    | 20.1    | 28.1    | 32.1    | 28.1    | 16.1    | 12.0    |
| 85°   | 0.0     | 0.0     | 4.0     | 12.0    | 16.1    | 20.1    | 32.1    | 28.1    | 16.1    | 8.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 4.0     | 4.0     | 8.0     | 16.1    | 12.0    | 8.0     | 4.0     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 48514.0 | 0°    | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 | 48514.0 |
| 48638.5 | 2.5°  | 48999.9 | 49180.6 | 49497.8 | 49586.2 | 49859.3 | 49546.0 | 49373.4 | 49389.4 | 49016.0 |
| 48518.0 | 5°    | 48999.9 | 49413.5 | 49967.7 | 50232.7 | 50433.5 | 50417.4 | 50373.3 | 50260.8 | 49987.8 |
| 48277.1 | 7.5°  | 48871.4 | 49546.0 | 50309.0 | 50662.4 | 50903.3 | 50883.3 | 50983.7 | 50803.0 | 50469.6 |
| 47847.4 | 10°   | 48457.8 | 49044.1 | 49983.7 | 50272.9 | 50662.4 | 50670.4 | 50545.9 | 50582.1 | 49987.8 |
| 46277.2 | 12.5° | 47156.7 | 47614.5 | 48437.7 | 48767.0 | 49240.8 | 49317.1 | 49180.6 | 49128.4 | 48566.2 |
| 43703.2 | 15°   | 44638.8 | 44903.9 | 45731.1 | 46060.4 | 46530.2 | 46466.0 | 46602.5 | 46546.3 | 46052.4 |
| 40225.5 | 17.5° | 40956.4 | 41040.7 | 41908.1 | 42185.2 | 42626.9 | 42799.6 | 42594.8 | 42855.8 | 42430.2 |
| 35426.7 | 20°   | 35675.7 | 36129.5 | 37105.3 | 37531.0 | 37788.0 | 38097.2 | 37828.1 | 38121.3 | 37623.3 |
| 29603.9 | 22.5° | 30318.7 | 30587.8 | 31471.2 | 32085.7 | 32563.5 | 32623.8 | 32523.4 | 32728.2 | 32057.5 |
| 24471.8 | 25°   | 24467.8 | 24913.6 | 25612.3 | 26415.4 | 26885.3 | 27174.4 | 26913.4 | 27045.9 | 26937.5 |
| 18978.3 | 27.5° | 19299.6 | 19697.1 | 20223.2 | 20821.5 | 21528.3 | 21905.8 | 21697.0 | 21921.9 | 21391.8 |
| 14151.4 | 30°   | 14163.5 | 14364.3 | 14958.6 | 15593.1 | 16368.1 | 16825.9 | 16846.0 | 17074.9 | 16761.6 |
| 9914.8  | 32.5° | 9987.1  | 10163.8 | 10529.2 | 10950.9 | 11689.8 | 12199.8 | 12119.5 | 12151.6 | 11958.8 |
| 6461.3  | 35°   | 6493.4  | 6730.4  | 6991.4  | 7192.2  | 7637.9  | 8200.1  | 8155.9  | 8115.8  | 7983.3  |
| 4248.6  | 37.5° | 4341.0  | 4433.4  | 4577.9  | 4758.6  | 5047.8  | 5401.2  | 5517.6  | 5373.0  | 5316.8  |
| 2867.2  | 40°   | 2935.5  | 3096.1  | 3192.5  | 3329.0  | 3465.6  | 3762.7  | 3843.1  | 3814.9  | 3758.7  |
| 2007.9  | 42.5° | 2084.2  | 2208.6  | 2329.1  | 2461.6  | 2533.9  | 2718.6  | 2875.3  | 2831.1  | 2807.0  |
| 1526.0  | 45°   | 1582.2  | 1694.6  | 1835.2  | 1935.6  | 2007.9  | 2116.3  | 2264.9  | 2280.9  | 2244.8  |
| 1224.8  | 47.5° | 1269.0  | 1369.4  | 1481.8  | 1606.3  | 1690.6  | 1758.9  | 1887.4  | 1935.6  | 1911.5  |
| 1032.0  | 50°   | 1076.2  | 1152.5  | 1260.9  | 1385.4  | 1477.8  | 1538.0  | 1650.5  | 1702.7  | 1686.6  |
| 863.4   | 52.5° | 915.6   | 1007.9  | 1108.3  | 1212.7  | 1325.2  | 1385.4  | 1489.8  | 1566.1  | 1554.1  |
| 714.8   | 55°   | 759.0   | 879.4   | 983.9   | 1088.3  | 1216.8  | 1277.0  | 1369.4  | 1469.8  | 1449.7  |
| 606.4   | 57.5° | 662.6   | 763.0   | 871.4   | 971.8   | 1108.3  | 1188.7  | 1273.0  | 1377.4  | 1373.4  |
| 498.0   | 60°   | 554.2   | 654.6   | 775.0   | 859.4   | 1003.9  | 1116.4  | 1192.7  | 1301.1  | 1309.1  |
| 377.5   | 62.5° | 441.7   | 566.2   | 658.6   | 775.0   | 907.6   | 1040.1  | 1112.4  | 1220.8  | 1260.9  |
| 289.1   | 65°   | 329.3   | 465.8   | 570.2   | 686.7   | 811.2   | 959.8   | 1024.0  | 1132.4  | 1172.6  |
| 208.8   | 67.5° | 245.0   | 349.4   | 481.9   | 582.3   | 722.8   | 851.3   | 927.6   | 1028.0  | 1056.1  |
| 124.5   | 70°   | 184.7   | 269.1   | 401.6   | 489.9   | 634.5   | 738.9   | 815.2   | 891.5   | 927.6   |
| 84.3    | 72.5° | 108.4   | 200.8   | 317.2   | 421.7   | 546.1   | 634.5   | 690.7   | 750.9   | 775.0   |
| 40.2    | 75°   | 76.3    | 152.6   | 249.0   | 349.4   | 441.7   | 514.0   | 566.2   | 618.4   | 642.5   |
| 20.1    | 77.5° | 40.2    | 112.4   | 196.8   | 281.1   | 345.4   | 405.6   | 457.8   | 498.0   | 514.0   |
| 16.1    | 80°   | 24.1    | 80.3    | 160.6   | 220.9   | 265.0   | 317.2   | 369.4   | 397.6   | 393.5   |
| 12.0    | 82.5° | 16.1    | 64.3    | 116.5   | 160.6   | 192.8   | 232.9   | 269.1   | 289.1   | 289.1   |
| 8.0     | 85°   | 12.0    | 44.2    | 80.3    | 124.5   | 128.5   | 160.6   | 168.7   | 188.7   | 192.8   |
| 8.0     | 87.5° | 8.0     | 28.1    | 44.2    | 72.3    | 68.3    | 84.3    | 88.3    | 100.4   | 108.4   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



| 180°    |
|---------|
| 48514.0 |
| 48714.8 |
| 50076.1 |
| 50545.9 |
| 49815.1 |
| 48437.7 |
| 46209.0 |
| 42325.8 |
| 37583.2 |
| 31965.2 |
| 26869.2 |
| 21528.3 |
| 16817.9 |
| 12067.3 |
| 7866.8  |
| 5304.8  |
| 3766.8  |
| 2786.9  |
| 2240.8  |
| 1899.4  |
| 1682.6  |
| 1546.1  |
| 1449.7  |
| 1369.4  |
| 1309.1  |
| 1256.9  |
| 1168.6  |
| 1056.1  |
| 919.6   |
| 767.0   |
| 634.5   |
| 510.0   |
| 389.5   |
| 285.1   |
| 188.7   |
| 104.4   |
| 0.0     |

(END OF REPORT)