

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: P636512

Luminaire Tested: **IFLD-S-SA3C-940-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P636512  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-940-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (48) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12665.6 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

Input Watts (W): 160.8  
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



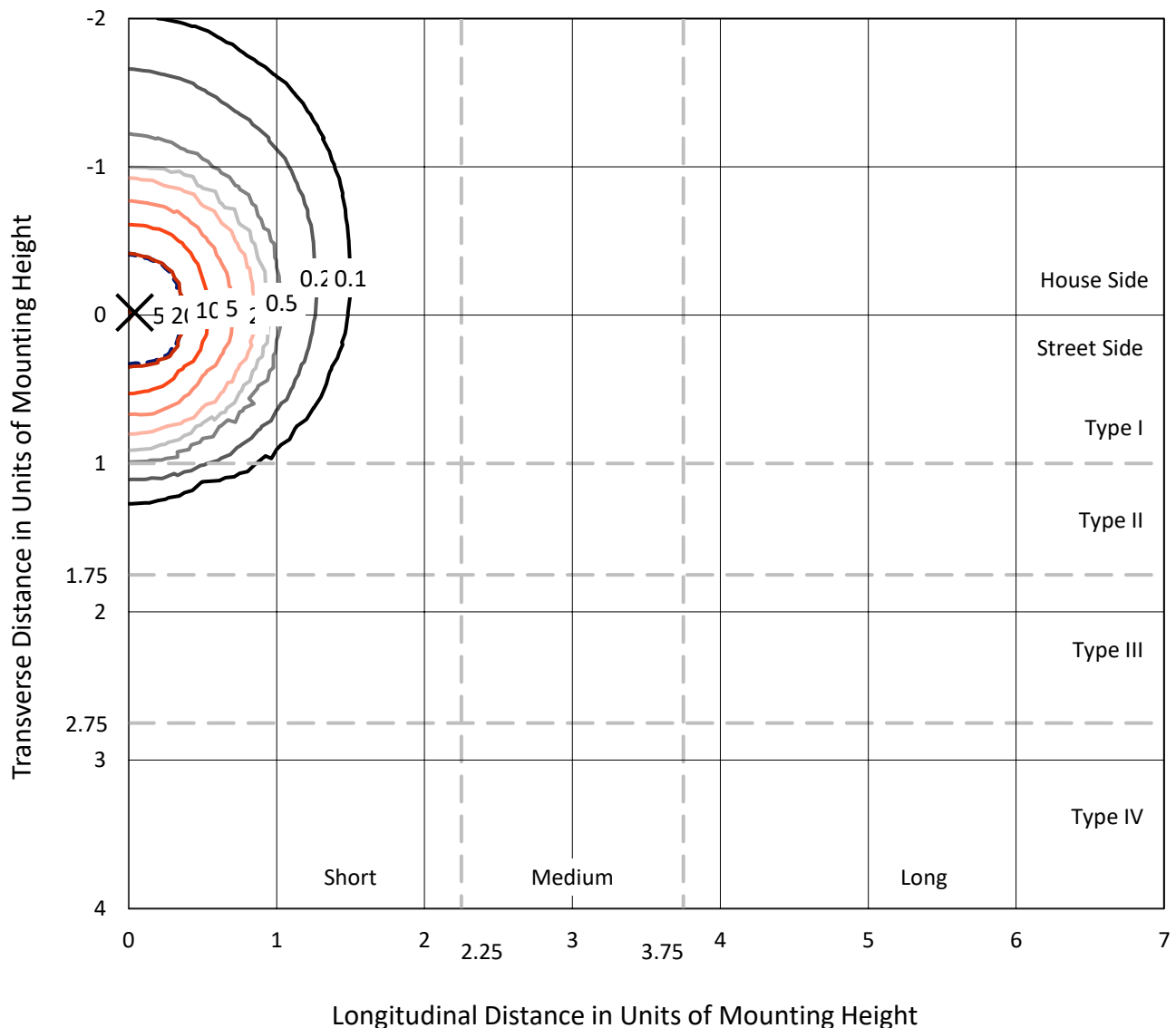
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## Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

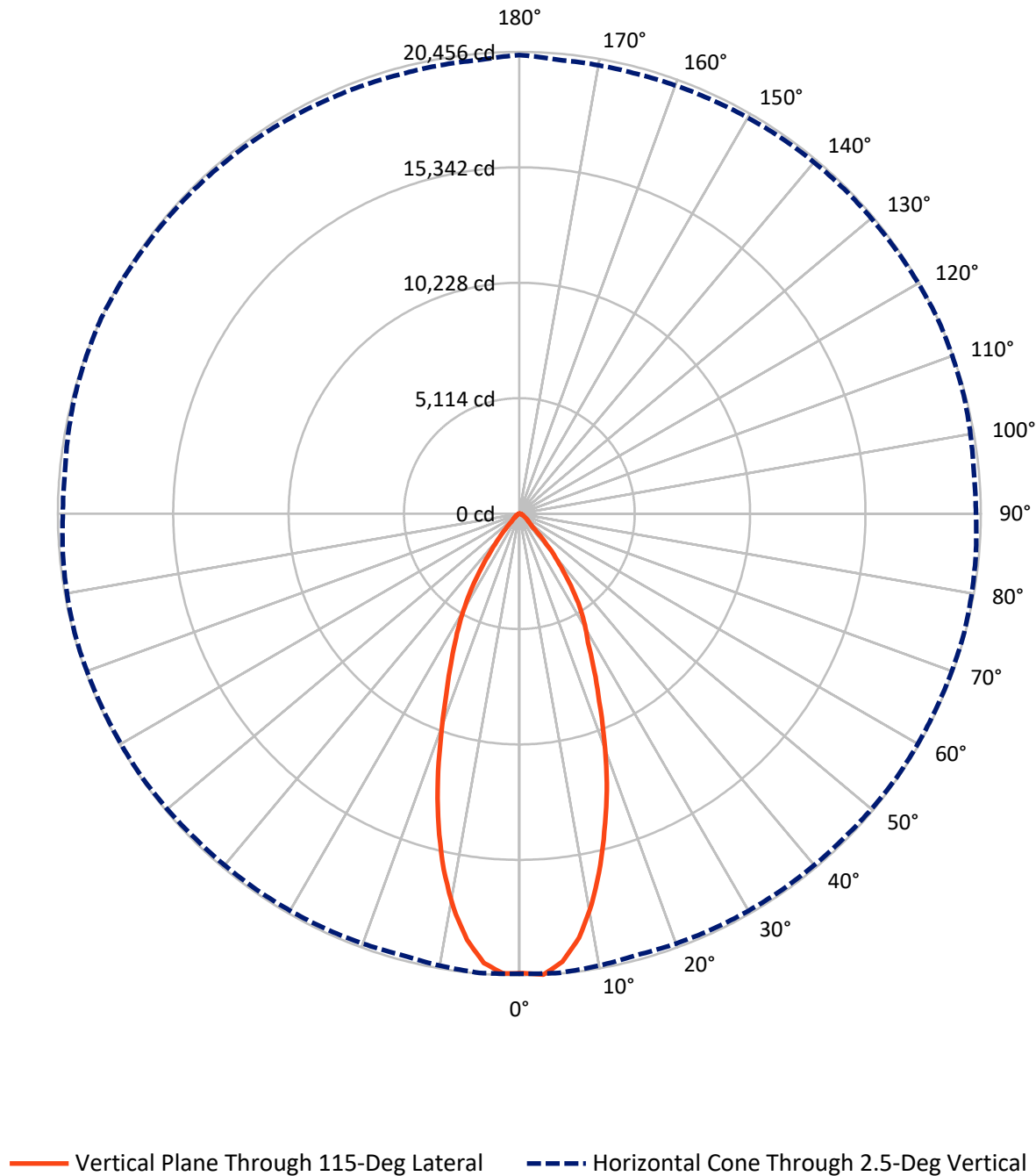


Based on 20 foot mounting height. Maximum calculated value = 50.9 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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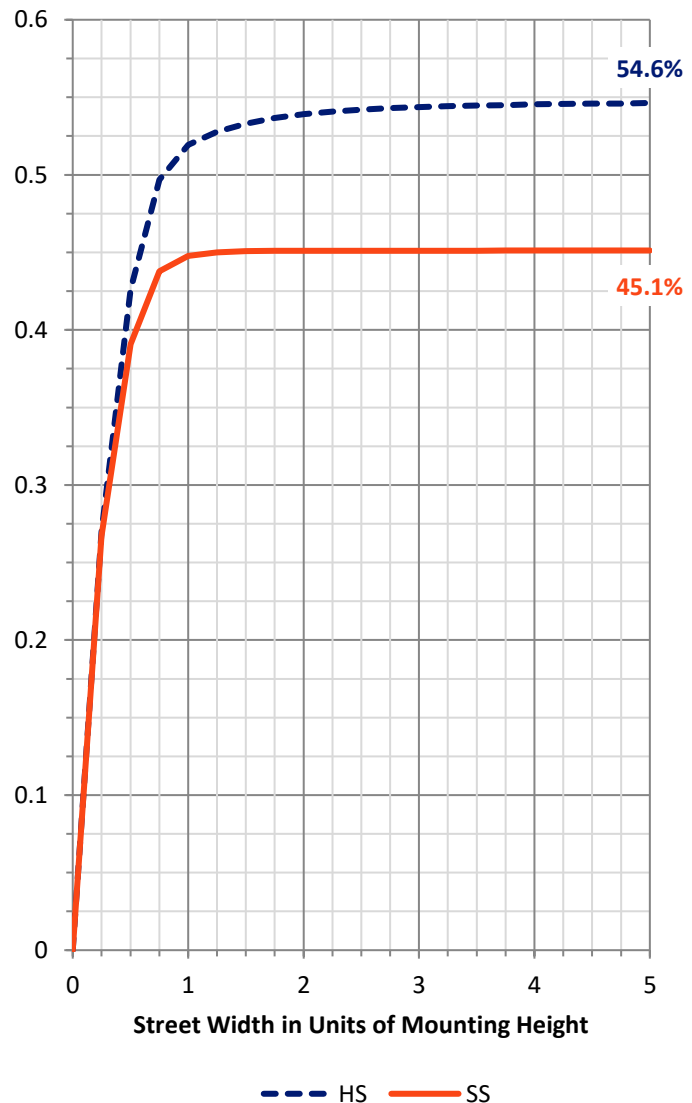
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6989.9   | 0.0    | 6989.9  |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 5675.7   | 0.0    | 5675.7  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 12665.6  | 0.0    | 12665.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1826.1  | 14.4      |
| 10°-20°   | 3859.5  | 30.5      |
| 20°-30°   | 3483.4  | 27.5      |
| 30°-40°   | 2305.2  | 18.2      |
| 40°-50°   | 690.5   | 5.5       |
| 50°-60°   | 277.0   | 2.2       |
| 60°-70°   | 143.4   | 1.1       |
| 70°-80°   | 62.3    | 0.5       |
| 80°-90°   | 18.1    | 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°    | 12665.6 | 100.0     |
| 0°-180°   | 12665.6 | 100.0     |

**Coefficient of Utilization**



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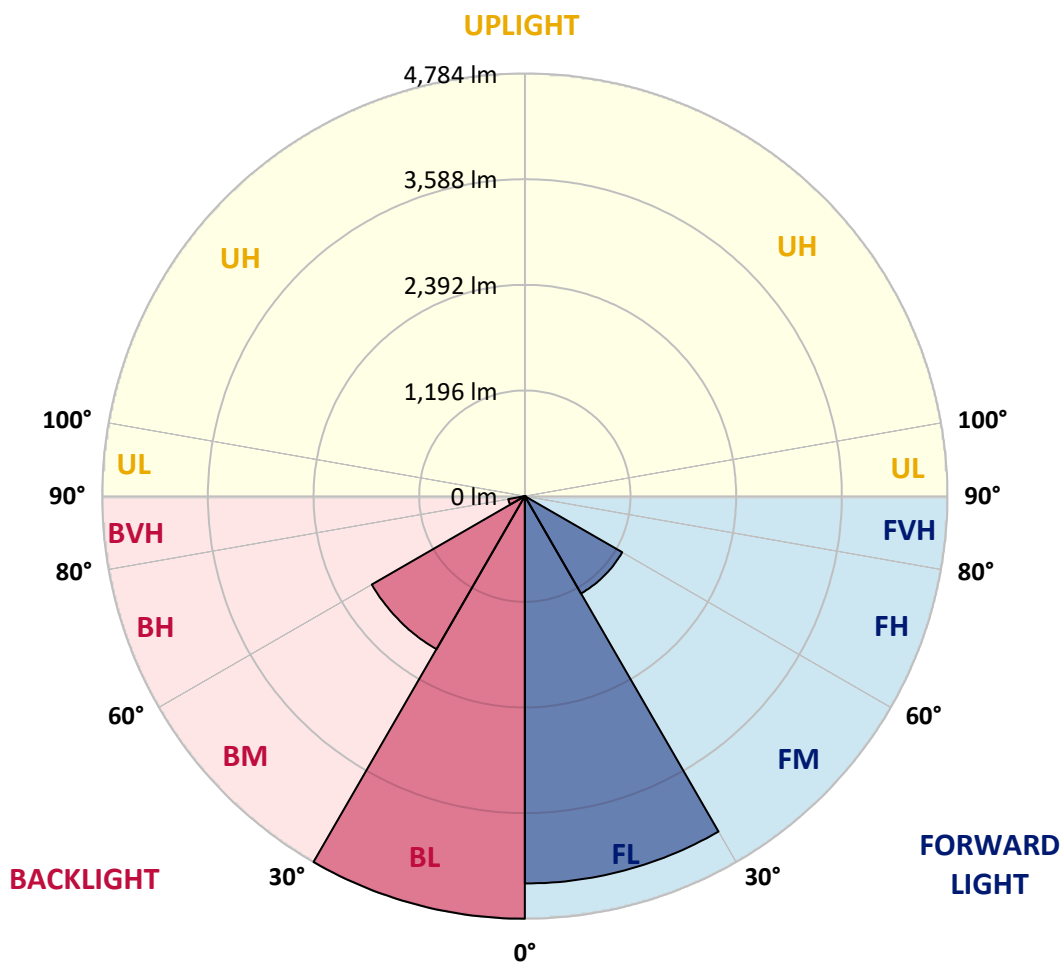
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 4384.9 | 34.6      |                         |      |        |
| FM   | (30°-60°)   | 1272.4 | 10.0      |                         |      |        |
| FH   | (60°-80°)   | 15.8   | 0.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 2.6    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 4784.1 | 37.8      | B4/5000                 |      |        |
| BM   | (30°-60°)   | 2000.3 | 15.8      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 190.0  | 1.5       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 15.5   | 0.1       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G1**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 |
| 2.5°  | 20385.8 | 20422.0 | 20240.7 | 20302.9 | 20328.8 | 20336.6 | 20401.3 | 20391.0 | 20409.1 | 20313.3 |
| 5°    | 20116.4 | 20046.5 | 19911.8 | 19914.3 | 19906.6 | 19834.0 | 19981.7 | 19971.3 | 19940.2 | 19826.3 |
| 7.5°  | 19199.4 | 19300.4 | 19046.6 | 19041.4 | 19036.2 | 18948.2 | 19142.4 | 19023.3 | 19049.2 | 18886.0 |
| 10°   | 17857.6 | 17870.6 | 17645.2 | 17624.5 | 17642.6 | 17528.7 | 17754.0 | 17707.4 | 17756.6 | 17585.7 |
| 12.5° | 16212.8 | 16285.3 | 16036.6 | 16000.4 | 16072.9 | 15912.3 | 16093.6 | 16116.9 | 16044.4 | 16021.1 |
| 15°   | 12715.9 | 12907.5 | 13379.0 | 14099.1 | 14285.6 | 14150.9 | 14296.0 | 14293.4 | 14324.4 | 14148.3 |
| 17.5° | 9687.8  | 9705.9  | 9594.5  | 9939.0  | 11933.6 | 12581.2 | 12612.2 | 12366.2 | 12179.7 | 12114.9 |
| 20°   | 8457.4  | 8519.5  | 8418.5  | 8447.0  | 8765.6  | 10664.3 | 10736.9 | 10366.4 | 10047.8 | 10021.9 |
| 22.5° | 7478.2  | 7517.1  | 7444.6  | 7467.9  | 7483.4  | 7706.2  | 8967.7  | 8641.3  | 8488.5  | 8371.9  |
| 25°   | 6649.3  | 6649.3  | 6610.5  | 6618.3  | 6602.7  | 6273.7  | 6921.3  | 7294.3  | 7206.3  | 7164.8  |
| 27.5° | 5893.0  | 5903.3  | 5854.1  | 5882.6  | 5693.5  | 5162.5  | 5084.8  | 6185.7  | 6092.4  | 6017.3  |
| 30°   | 5175.5  | 5209.1  | 5162.5  | 5178.0  | 4766.2  | 4331.0  | 4108.2  | 5159.9  | 5276.5  | 5255.8  |
| 32.5° | 3895.8  | 4048.7  | 4424.3  | 4439.8  | 3880.3  | 3546.1  | 3447.7  | 4141.9  | 4584.9  | 4546.0  |
| 35°   | 2414.2  | 2406.4  | 2421.9  | 3168.0  | 2976.3  | 2748.3  | 2784.6  | 3129.1  | 3629.0  | 3610.9  |
| 37.5° | 1841.7  | 1839.1  | 1867.6  | 1792.5  | 1950.5  | 2085.2  | 2113.7  | 2113.7  | 2649.9  | 2652.5  |
| 40°   | 1396.2  | 1385.8  | 1383.2  | 1264.1  | 1059.4  | 1564.6  | 1517.9  | 1479.1  | 1841.7  | 1880.6  |
| 42.5° | 891.1   | 922.2   | 898.8   | 769.3   | 691.6   | 854.8   | 953.2   | 922.2   | 1137.1  | 1165.6  |
| 45°   | 497.3   | 497.3   | 476.6   | 404.1   | 401.5   | 432.6   | 544.0   | 507.7   | 582.8   | 621.7   |
| 47.5° | 240.9   | 235.7   | 259.0   | 318.6   | 331.6   | 321.2   | 388.5   | 404.1   | 440.4   | 476.6   |
| 50°   | 194.3   | 194.3   | 183.9   | 165.8   | 274.6   | 264.2   | 287.5   | 308.2   | 329.0   | 360.1   |
| 52.5° | 163.2   | 163.2   | 150.2   | 139.9   | 158.0   | 202.0   | 204.6   | 243.5   | 240.9   | 284.9   |
| 55°   | 82.9    | 85.5    | 121.7   | 121.7   | 106.2   | 165.8   | 168.4   | 196.9   | 202.0   | 238.3   |
| 57.5° | 7.8     | 10.4    | 15.5    | 75.1    | 82.9    | 90.7    | 126.9   | 145.1   | 168.4   | 183.9   |
| 60°   | 2.6     | 2.6     | 5.2     | 10.4    | 49.2    | 62.2    | 80.3    | 95.8    | 116.6   | 152.8   |
| 62.5° | 0.0     | 0.0     | 2.6     | 5.2     | 10.4    | 38.9    | 44.0    | 49.2    | 69.9    | 95.8    |
| 65°   | 0.0     | 0.0     | 2.6     | 2.6     | 5.2     | 13.0    | 18.1    | 31.1    | 44.0    | 59.6    |
| 67.5° | 0.0     | 0.0     | 2.6     | 2.6     | 5.2     | 7.8     | 10.4    | 15.5    | 20.7    | 38.9    |
| 70°   | 0.0     | 0.0     | 2.6     | 2.6     | 5.2     | 7.8     | 7.8     | 10.4    | 13.0    | 18.1    |
| 72.5° | 0.0     | 0.0     | 2.6     | 2.6     | 5.2     | 10.4    | 7.8     | 7.8     | 10.4    | 13.0    |
| 75°   | 0.0     | 0.0     | 2.6     | 2.6     | 5.2     | 7.8     | 7.8     | 7.8     | 7.8     | 7.8     |
| 77.5° | 0.0     | 0.0     | 2.6     | 2.6     | 5.2     | 7.8     | 7.8     | 7.8     | 5.2     | 5.2     |
| 80°   | 0.0     | 0.0     | 2.6     | 2.6     | 5.2     | 7.8     | 10.4    | 10.4    | 5.2     | 5.2     |
| 82.5° | 0.0     | 0.0     | 2.6     | 5.2     | 5.2     | 13.0    | 15.5    | 13.0    | 5.2     | 2.6     |
| 85°   | 0.0     | 0.0     | 2.6     | 2.6     | 7.8     | 13.0    | 13.0    | 7.8     | 5.2     | 2.6     |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.6     | 2.6     | 5.2     | 7.8     | 7.8     | 2.6     | 2.6     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 20359.9 | 0°    | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 | 20359.9 |
| 20235.5 | 2.5°  | 20225.2 | 20383.2 | 20455.7 | 20380.6 | 20344.3 | 20292.5 | 20217.4 | 20165.6 | 20176.0 |
| 19764.1 | 5°    | 19720.1 | 19885.9 | 19942.8 | 19878.1 | 19823.7 | 19795.2 | 19782.2 | 19808.1 | 19875.5 |
| 18816.1 | 7.5°  | 18810.9 | 18917.1 | 18979.2 | 18948.2 | 18873.0 | 18958.5 | 18981.8 | 18966.3 | 19064.7 |
| 17533.8 | 10°   | 17539.0 | 17655.6 | 17598.6 | 17611.6 | 17523.5 | 17567.5 | 17554.6 | 17611.6 | 17710.0 |
| 16003.0 | 12.5° | 15899.4 | 16010.7 | 15966.7 | 15958.9 | 15865.7 | 15948.6 | 15896.8 | 15958.9 | 16088.5 |
| 14075.8 | 15°   | 14176.8 | 14246.7 | 14218.2 | 14174.2 | 14091.3 | 14119.8 | 14280.4 | 14270.0 | 14327.0 |
| 12076.1 | 17.5° | 12024.2 | 12361.0 | 12544.9 | 12583.8 | 12516.4 | 12573.4 | 12687.4 | 12658.9 | 12788.4 |
| 9967.5  | 20°   | 9949.4  | 10288.7 | 10742.0 | 11109.9 | 11117.6 | 11125.4 | 11197.9 | 11216.1 | 11327.5 |
| 8374.5  | 22.5° | 8338.2  | 8579.1  | 9066.1  | 9553.1  | 9889.8  | 9959.8  | 9952.0  | 9977.9  | 10009.0 |
| 7107.8  | 25°   | 7089.7  | 7265.8  | 7711.4  | 8048.1  | 8638.7  | 8835.6  | 8892.6  | 8835.6  | 8853.7  |
| 5991.4  | 27.5° | 6058.7  | 6328.1  | 6475.8  | 6835.8  | 7413.5  | 7869.4  | 7851.2  | 7817.6  | 7822.8  |
| 5214.3  | 30°   | 5211.7  | 5501.8  | 5719.4  | 5828.2  | 6263.4  | 6921.3  | 6988.7  | 6892.8  | 6895.4  |
| 4527.9  | 32.5° | 4499.4  | 4590.0  | 4911.2  | 4999.3  | 5279.1  | 5877.4  | 6108.0  | 6035.4  | 6022.5  |
| 3621.3  | 35°   | 3727.5  | 3776.7  | 3924.3  | 4097.9  | 4263.7  | 4717.0  | 5097.7  | 5030.4  | 5064.1  |
| 2662.8  | 37.5° | 2652.5  | 2854.5  | 2997.0  | 3139.5  | 3258.6  | 3543.6  | 4002.0  | 3939.9  | 3973.5  |
| 1885.7  | 40°   | 1870.2  | 1960.9  | 2206.9  | 2269.1  | 2445.3  | 2577.4  | 2965.9  | 2945.2  | 2986.6  |
| 1170.8  | 42.5° | 1150.1  | 1214.9  | 1339.2  | 1398.8  | 1517.9  | 1593.0  | 1821.0  | 1846.9  | 1901.3  |
| 647.6   | 45°   | 652.8   | 681.3   | 766.7   | 831.5   | 919.6   | 950.6   | 1030.9  | 1067.2  | 1098.3  |
| 502.5   | 47.5° | 497.3   | 528.4   | 585.4   | 642.4   | 714.9   | 740.8   | 797.8   | 852.2   | 880.7   |
| 388.5   | 50°   | 406.7   | 435.2   | 494.8   | 541.4   | 613.9   | 637.2   | 683.8   | 743.4   | 779.7   |
| 295.3   | 52.5° | 308.2   | 349.7   | 422.2   | 471.4   | 546.6   | 575.1   | 619.1   | 678.7   | 712.3   |
| 243.5   | 55°   | 253.9   | 284.9   | 349.7   | 417.0   | 487.0   | 525.8   | 554.3   | 626.9   | 663.1   |
| 199.5   | 57.5° | 217.6   | 240.9   | 282.3   | 362.6   | 422.2   | 479.2   | 502.5   | 569.9   | 606.1   |
| 158.0   | 60°   | 165.8   | 202.0   | 238.3   | 300.5   | 367.8   | 427.4   | 453.3   | 512.9   | 541.4   |
| 114.0   | 62.5° | 137.3   | 160.6   | 207.2   | 240.9   | 316.0   | 378.2   | 404.1   | 458.5   | 479.2   |
| 75.1    | 65°   | 95.8    | 129.5   | 173.6   | 194.3   | 264.2   | 323.8   | 360.1   | 401.5   | 422.2   |
| 44.0    | 67.5° | 57.0    | 95.8    | 137.3   | 165.8   | 215.0   | 274.6   | 313.4   | 352.3   | 370.4   |
| 25.9    | 70°   | 36.3    | 75.1    | 108.8   | 139.9   | 168.4   | 225.4   | 272.0   | 305.7   | 297.9   |
| 15.5    | 72.5° | 20.7    | 46.6    | 80.3    | 114.0   | 139.9   | 189.1   | 233.1   | 259.0   | 183.9   |
| 10.4    | 75°   | 13.0    | 33.7    | 67.3    | 93.3    | 114.0   | 150.2   | 191.7   | 196.9   | 114.0   |
| 5.2     | 77.5° | 10.4    | 25.9    | 51.8    | 75.1    | 77.7    | 111.4   | 134.7   | 152.8   | 85.5    |
| 5.2     | 80°   | 5.2     | 20.7    | 44.0    | 62.2    | 49.2    | 77.7    | 103.6   | 119.2   | 67.3    |
| 2.6     | 82.5° | 5.2     | 13.0    | 33.7    | 44.0    | 36.3    | 59.6    | 75.1    | 85.5    | 57.0    |
| 2.6     | 85°   | 2.6     | 10.4    | 18.1    | 25.9    | 25.9    | 38.9    | 33.7    | 41.4    | 36.3    |
| 2.6     | 87.5° | 2.6     | 5.2     | 10.4    | 13.0    | 10.4    | 15.5    | 18.1    | 18.1    | 15.5    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



| 180°    |
|---------|
| 20359.9 |
| 20315.8 |
| 20015.4 |
| 19163.2 |
| 17748.8 |
| 16111.8 |
| 14340.0 |
| 12767.7 |
| 11304.1 |
| 9952.0  |
| 8825.2  |
| 7830.5  |
| 6898.0  |
| 6053.6  |
| 5095.2  |
| 4002.0  |
| 3002.2  |
| 1963.5  |
| 1095.7  |
| 893.7   |
| 795.2   |
| 735.6   |
| 673.5   |
| 621.7   |
| 546.6   |
| 481.8   |
| 422.2   |
| 367.8   |
| 274.6   |
| 163.2   |
| 106.2   |
| 85.5    |
| 69.9    |
| 62.2    |
| 36.3    |
| 13.0    |
| 0.0     |

(END OF REPORT)