

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: P636513

Luminaire Tested: **IFLD-S-SA3D-940-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P636513  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-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: 13936.3 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 184.1  
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

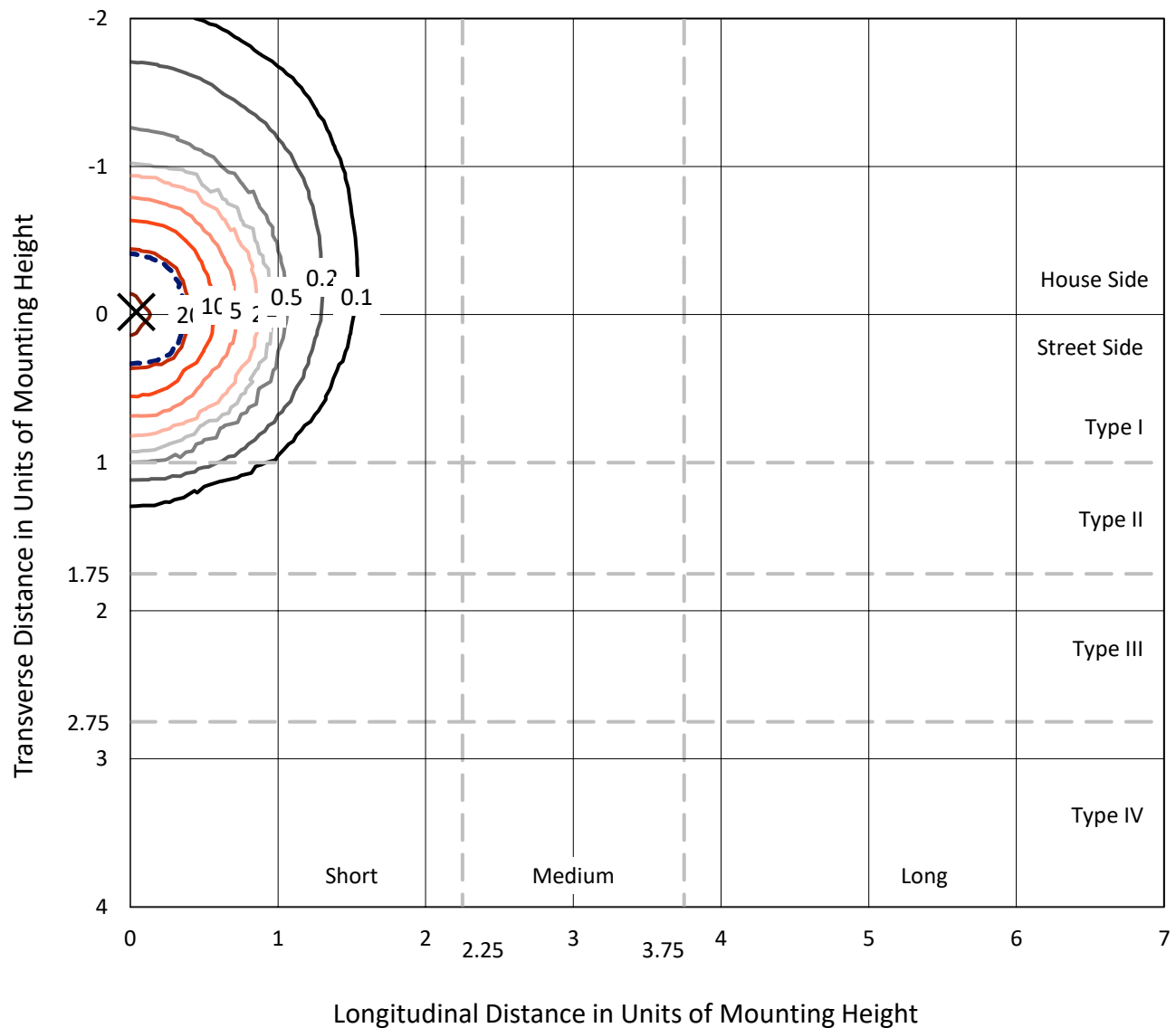


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

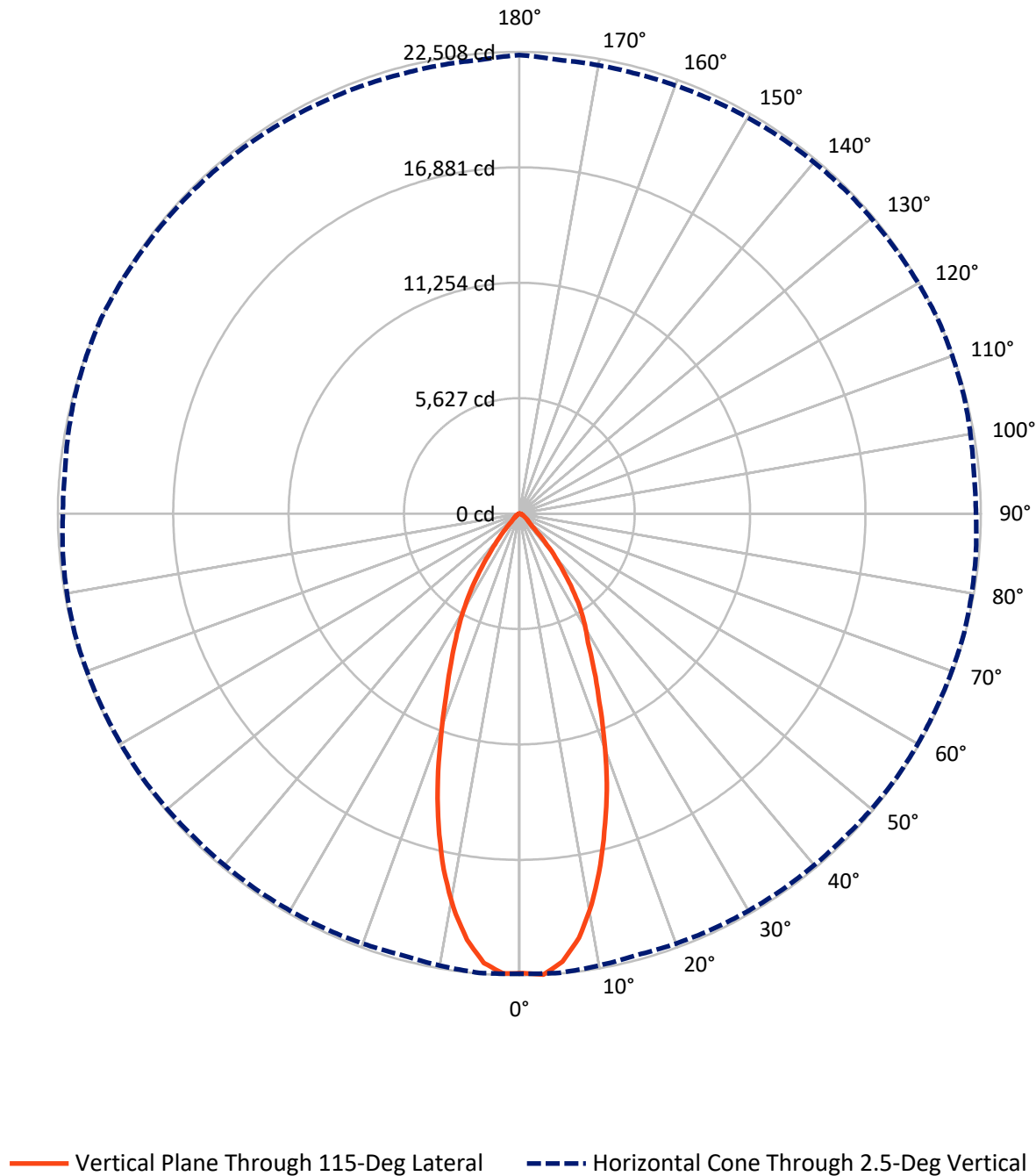


Based on 20 foot mounting height. Maximum calculated value = 56 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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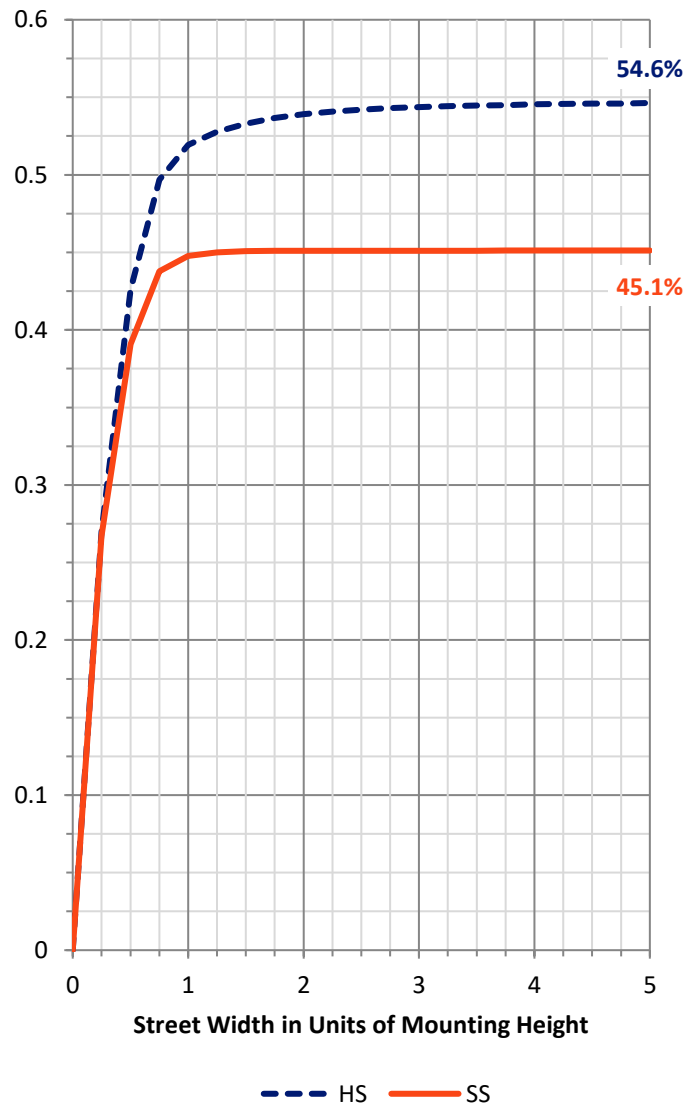
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7691.2   | 0.0    | 7691.2  |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 6245.1   | 0.0    | 6245.1  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 13936.3  | 0.0    | 13936.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2009.3  | 14.4      |
| 10°-20°   | 4246.7  | 30.5      |
| 20°-30°   | 3832.9  | 27.5      |
| 30°-40°   | 2536.4  | 18.2      |
| 40°-50°   | 759.8   | 5.5       |
| 50°-60°   | 304.8   | 2.2       |
| 60°-70°   | 157.8   | 1.1       |
| 70°-80°   | 68.5    | 0.5       |
| 80°-90°   | 20.0    | 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°    | 13936.3 | 100.0     |
| 0°-180°   | 13936.3 | 100.0     |

**Coefficient of Utilization**



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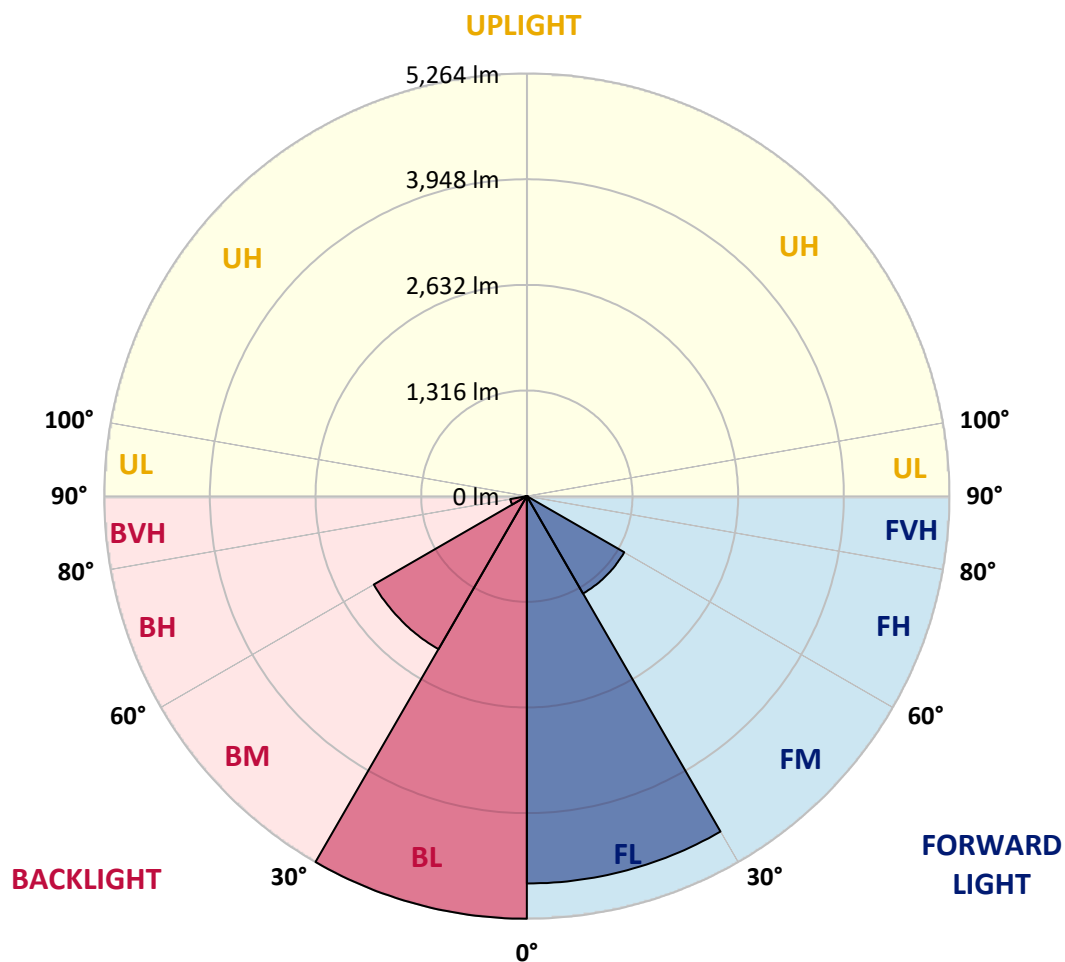
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 4824.8 | 34.6      |                         |      |        |
| FM   | (30°-60°)   | 1400.0 | 10.0      |                         |      |        |
| FH   | (60°-80°)   | 17.4   | 0.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 2.9    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 5264.1 | 37.8      | B5                      |      |        |
| BM   | (30°-60°)   | 2201.0 | 15.8      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 209.0  | 1.5       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 17.1   | 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°    | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 |
| 2.5°  | 22430.9 | 22470.8 | 22271.3 | 22339.7 | 22368.2 | 22376.8 | 22448.0 | 22436.6 | 22456.6 | 22351.1 |
| 5°    | 22134.5 | 22057.6 | 21909.4 | 21912.2 | 21903.7 | 21823.8 | 21986.3 | 21974.9 | 21940.7 | 21815.3 |
| 7.5°  | 21125.6 | 21236.7 | 20957.4 | 20951.7 | 20946.0 | 20849.1 | 21062.9 | 20931.7 | 20960.2 | 20780.7 |
| 10°   | 19649.2 | 19663.4 | 19415.4 | 19392.6 | 19412.6 | 19287.2 | 19535.2 | 19483.8 | 19538.0 | 19349.9 |
| 12.5° | 17839.3 | 17919.1 | 17645.5 | 17605.6 | 17685.4 | 17508.7 | 17708.2 | 17733.8 | 17654.0 | 17628.4 |
| 15°   | 13991.5 | 14202.5 | 14721.2 | 15513.5 | 15718.8 | 15570.5 | 15730.2 | 15727.3 | 15761.5 | 15567.7 |
| 17.5° | 10659.7 | 10679.6 | 10557.1 | 10936.2 | 13130.8 | 13843.3 | 13877.5 | 13606.8 | 13401.6 | 13330.3 |
| 20°   | 9305.8  | 9374.3  | 9263.1  | 9294.4  | 9645.0  | 11734.2 | 11814.0 | 11406.4 | 11055.9 | 11027.4 |
| 22.5° | 8228.5  | 8271.2  | 8191.4  | 8217.1  | 8234.2  | 8479.3  | 9867.3  | 9508.2  | 9340.0  | 9211.8  |
| 25°   | 7316.4  | 7316.4  | 7273.7  | 7282.2  | 7265.1  | 6903.1  | 7615.7  | 8026.1  | 7929.2  | 7883.6  |
| 27.5° | 6484.2  | 6495.6  | 6441.4  | 6472.8  | 6264.7  | 5680.4  | 5594.9  | 6806.2  | 6703.6  | 6621.0  |
| 30°   | 5694.7  | 5731.7  | 5680.4  | 5697.5  | 5244.3  | 4765.5  | 4520.4  | 5677.6  | 5805.8  | 5783.0  |
| 32.5° | 4286.7  | 4454.8  | 4868.1  | 4885.2  | 4269.6  | 3901.9  | 3793.6  | 4557.4  | 5044.8  | 5002.1  |
| 35°   | 2656.4  | 2647.8  | 2664.9  | 3485.8  | 3274.9  | 3024.0  | 3063.9  | 3443.0  | 3993.1  | 3973.2  |
| 37.5° | 2026.5  | 2023.6  | 2055.0  | 1972.3  | 2146.2  | 2294.4  | 2325.7  | 2325.7  | 2915.7  | 2918.6  |
| 40°   | 1536.2  | 1524.8  | 1522.0  | 1390.9  | 1165.7  | 1721.5  | 1670.2  | 1627.5  | 2026.5  | 2069.2  |
| 42.5° | 980.5   | 1014.7  | 989.0   | 846.5   | 761.0   | 940.6   | 1048.9  | 1014.7  | 1251.2  | 1282.6  |
| 45°   | 547.2   | 547.2   | 524.4   | 444.6   | 441.8   | 476.0   | 598.5   | 558.6   | 641.3   | 684.0   |
| 47.5° | 265.1   | 259.4   | 285.0   | 350.6   | 364.8   | 353.4   | 427.5   | 444.6   | 484.5   | 524.4   |
| 50°   | 213.8   | 213.8   | 202.4   | 182.4   | 302.1   | 290.7   | 316.4   | 339.2   | 362.0   | 396.2   |
| 52.5° | 179.6   | 179.6   | 165.3   | 153.9   | 173.9   | 222.3   | 225.2   | 267.9   | 265.1   | 313.5   |
| 55°   | 91.2    | 94.1    | 134.0   | 134.0   | 116.9   | 182.4   | 185.3   | 216.6   | 222.3   | 262.2   |
| 57.5° | 8.6     | 11.4    | 17.1    | 82.7    | 91.2    | 99.8    | 139.7   | 159.6   | 185.3   | 202.4   |
| 60°   | 2.9     | 2.9     | 5.7     | 11.4    | 54.2    | 68.4    | 88.4    | 105.5   | 128.3   | 168.2   |
| 62.5° | 0.0     | 0.0     | 2.9     | 5.7     | 11.4    | 42.8    | 48.5    | 54.2    | 77.0    | 105.5   |
| 65°   | 0.0     | 0.0     | 2.9     | 2.9     | 5.7     | 14.3    | 20.0    | 34.2    | 48.5    | 65.6    |
| 67.5° | 0.0     | 0.0     | 2.9     | 2.9     | 5.7     | 8.6     | 11.4    | 17.1    | 22.8    | 42.8    |
| 70°   | 0.0     | 0.0     | 2.9     | 2.9     | 5.7     | 8.6     | 8.6     | 11.4    | 14.3    | 20.0    |
| 72.5° | 0.0     | 0.0     | 2.9     | 2.9     | 5.7     | 11.4    | 8.6     | 8.6     | 11.4    | 14.3    |
| 75°   | 0.0     | 0.0     | 2.9     | 2.9     | 5.7     | 8.6     | 8.6     | 8.6     | 8.6     | 8.6     |
| 77.5° | 0.0     | 0.0     | 2.9     | 2.9     | 5.7     | 8.6     | 8.6     | 8.6     | 5.7     | 5.7     |
| 80°   | 0.0     | 0.0     | 2.9     | 2.9     | 5.7     | 8.6     | 11.4    | 11.4    | 5.7     | 5.7     |
| 82.5° | 0.0     | 0.0     | 2.9     | 5.7     | 5.7     | 14.3    | 17.1    | 14.3    | 5.7     | 2.9     |
| 85°   | 0.0     | 0.0     | 2.9     | 2.9     | 8.6     | 14.3    | 14.3    | 8.6     | 5.7     | 2.9     |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.9     | 2.9     | 5.7     | 8.6     | 8.6     | 2.9     | 2.9     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 22402.4 | 0°    | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 | 22402.4 |
| 22265.6 | 2.5°  | 22254.2 | 22428.1 | 22507.9 | 22425.2 | 22385.3 | 22328.3 | 22245.7 | 22188.7 | 22200.1 |
| 21746.9 | 5°    | 21698.4 | 21880.9 | 21943.6 | 21872.3 | 21812.4 | 21781.1 | 21766.8 | 21795.3 | 21869.5 |
| 20703.7 | 7.5°  | 20698.0 | 20814.9 | 20883.3 | 20849.1 | 20766.4 | 20860.5 | 20886.1 | 20869.0 | 20977.3 |
| 19292.9 | 10°   | 19298.6 | 19426.8 | 19364.1 | 19378.4 | 19281.5 | 19329.9 | 19315.7 | 19378.4 | 19486.7 |
| 17608.4 | 12.5° | 17494.4 | 17617.0 | 17568.5 | 17560.0 | 17457.4 | 17548.6 | 17491.6 | 17560.0 | 17702.5 |
| 15487.9 | 15°   | 15599.1 | 15676.0 | 15644.7 | 15596.2 | 15505.0 | 15536.3 | 15713.1 | 15701.7 | 15764.4 |
| 13287.6 | 17.5° | 13230.5 | 13601.1 | 13803.4 | 13846.2 | 13772.1 | 13834.8 | 13960.2 | 13928.8 | 14071.4 |
| 10967.5 | 20°   | 10947.6 | 11320.9 | 11819.7 | 12224.4 | 12233.0 | 12241.5 | 12321.3 | 12341.3 | 12463.8 |
| 9214.6  | 22.5° | 9174.7  | 9439.8  | 9975.6  | 10511.5 | 10882.0 | 10959.0 | 10950.4 | 10978.9 | 11013.1 |
| 7820.9  | 25°   | 7801.0  | 7994.8  | 8485.0  | 8855.5  | 9505.4  | 9722.0  | 9784.7  | 9722.0  | 9741.9  |
| 6592.5  | 27.5° | 6666.6  | 6963.0  | 7125.5  | 7521.6  | 8157.2  | 8658.9  | 8638.9  | 8601.9  | 8607.6  |
| 5737.4  | 30°   | 5734.6  | 6053.8  | 6293.2  | 6412.9  | 6891.7  | 7615.7  | 7689.8  | 7584.3  | 7587.2  |
| 4982.1  | 32.5° | 4950.8  | 5050.5  | 5403.9  | 5500.9  | 5808.7  | 6467.1  | 6720.7  | 6640.9  | 6626.7  |
| 3984.6  | 35°   | 4101.4  | 4155.6  | 4318.0  | 4509.0  | 4691.4  | 5190.2  | 5609.2  | 5535.1  | 5572.1  |
| 2930.0  | 37.5° | 2918.6  | 3140.9  | 3297.7  | 3454.4  | 3585.5  | 3899.0  | 4403.5  | 4335.1  | 4372.2  |
| 2074.9  | 40°   | 2057.8  | 2157.6  | 2428.4  | 2496.8  | 2690.6  | 2835.9  | 3263.5  | 3240.7  | 3286.3  |
| 1288.3  | 42.5° | 1265.5  | 1336.7  | 1473.5  | 1539.1  | 1670.2  | 1752.9  | 2003.7  | 2032.2  | 2092.0  |
| 712.5   | 45°   | 718.2   | 749.6   | 843.7   | 914.9   | 1011.8  | 1046.0  | 1134.4  | 1174.3  | 1208.5  |
| 552.9   | 47.5° | 547.2   | 581.4   | 644.1   | 706.8   | 786.7   | 815.2   | 877.9   | 937.7   | 969.1   |
| 427.5   | 50°   | 447.5   | 478.8   | 544.4   | 595.7   | 675.5   | 701.1   | 752.4   | 818.0   | 857.9   |
| 324.9   | 52.5° | 339.2   | 384.8   | 464.6   | 518.7   | 601.4   | 632.7   | 681.2   | 746.7   | 783.8   |
| 267.9   | 55°   | 279.3   | 313.5   | 384.8   | 458.9   | 535.8   | 578.6   | 609.9   | 689.7   | 729.6   |
| 219.5   | 57.5° | 239.4   | 265.1   | 310.7   | 399.0   | 464.6   | 527.3   | 552.9   | 627.0   | 666.9   |
| 173.9   | 60°   | 182.4   | 222.3   | 262.2   | 330.6   | 404.7   | 470.3   | 498.8   | 564.3   | 595.7   |
| 125.4   | 62.5° | 151.1   | 176.7   | 228.0   | 265.1   | 347.7   | 416.1   | 444.6   | 504.5   | 527.3   |
| 82.7    | 65°   | 105.5   | 142.5   | 191.0   | 213.8   | 290.7   | 356.3   | 396.2   | 441.8   | 464.6   |
| 48.5    | 67.5° | 62.7    | 105.5   | 151.1   | 182.4   | 236.6   | 302.1   | 344.9   | 387.6   | 407.6   |
| 28.5    | 70°   | 39.9    | 82.7    | 119.7   | 153.9   | 185.3   | 248.0   | 299.3   | 336.3   | 327.8   |
| 17.1    | 72.5° | 22.8    | 51.3    | 88.4    | 125.4   | 153.9   | 208.1   | 256.5   | 285.0   | 202.4   |
| 11.4    | 75°   | 14.3    | 37.1    | 74.1    | 102.6   | 125.4   | 165.3   | 210.9   | 216.6   | 125.4   |
| 5.7     | 77.5° | 11.4    | 28.5    | 57.0    | 82.7    | 85.5    | 122.6   | 148.2   | 168.2   | 94.1    |
| 5.7     | 80°   | 5.7     | 22.8    | 48.5    | 68.4    | 54.2    | 85.5    | 114.0   | 131.1   | 74.1    |
| 2.9     | 82.5° | 5.7     | 14.3    | 37.1    | 48.5    | 39.9    | 65.6    | 82.7    | 94.1    | 62.7    |
| 2.9     | 85°   | 2.9     | 11.4    | 20.0    | 28.5    | 28.5    | 42.8    | 37.1    | 45.6    | 39.9    |
| 2.9     | 87.5° | 2.9     | 5.7     | 11.4    | 14.3    | 11.4    | 17.1    | 20.0    | 20.0    | 17.1    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 22402.4 |
| 22354.0 |
| 22023.4 |
| 21085.7 |
| 19529.5 |
| 17728.1 |
| 15778.6 |
| 14048.6 |
| 12438.2 |
| 10950.4 |
| 9710.6  |
| 8616.1  |
| 7590.0  |
| 6660.9  |
| 5606.3  |
| 4403.5  |
| 3303.4  |
| 2160.4  |
| 1205.6  |
| 983.3   |
| 875.0   |
| 809.5   |
| 741.0   |
| 684.0   |
| 601.4   |
| 530.1   |
| 464.6   |
| 404.7   |
| 302.1   |
| 179.6   |
| 116.9   |
| 94.1    |
| 77.0    |
| 68.4    |
| 39.9    |
| 14.3    |
| 0.0     |

(END OF REPORT)