

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: P639159

Luminaire Tested: **USSL-M-PA6A-730-U-T2R-HSS**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-M-PA6A-730-U-T2R-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE  
SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29939 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 273.8  
Input Voltage (V): NR  
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: 24 FT

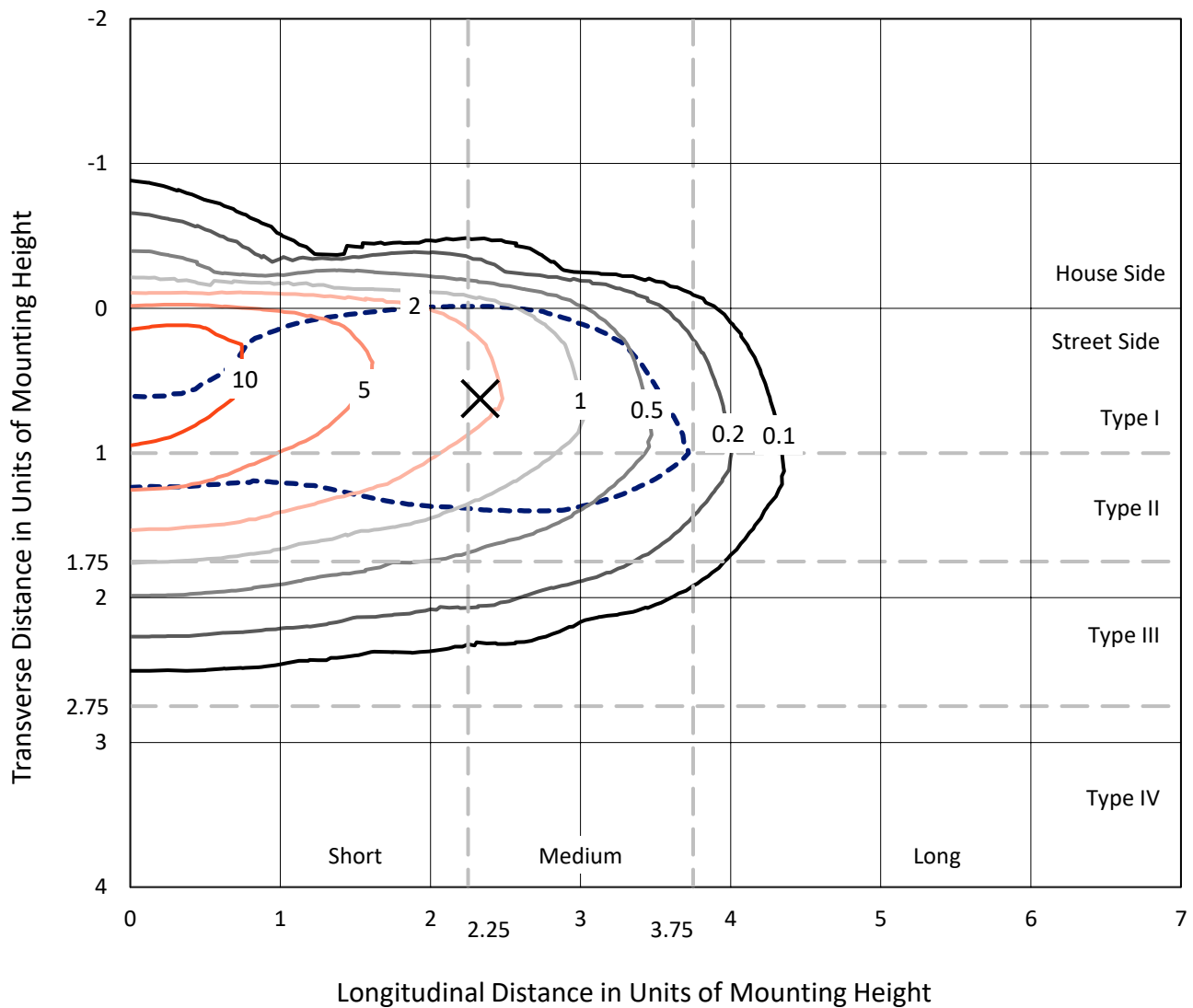


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## Iso-Footcandle Lines of Horizontal Illumination

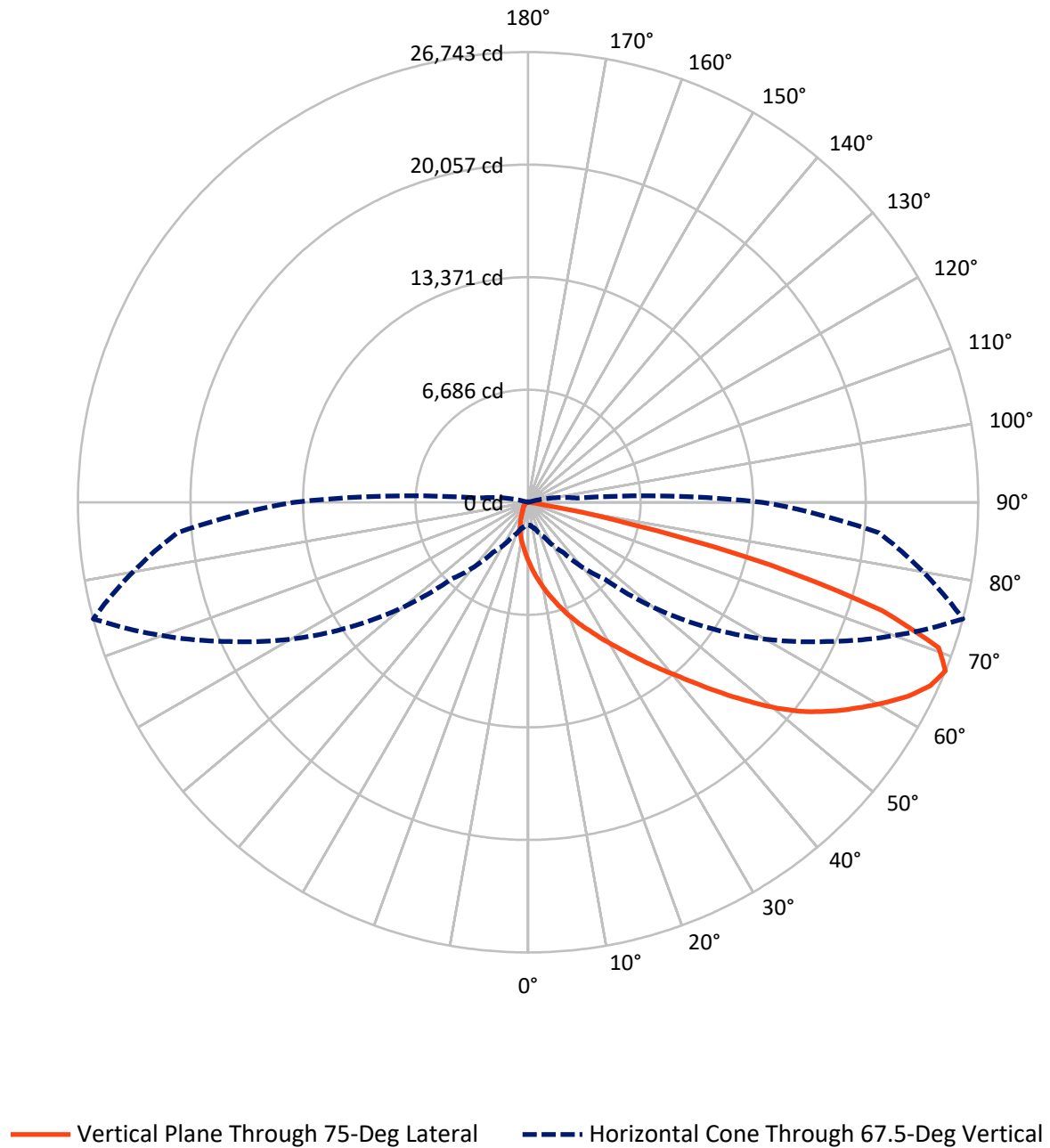
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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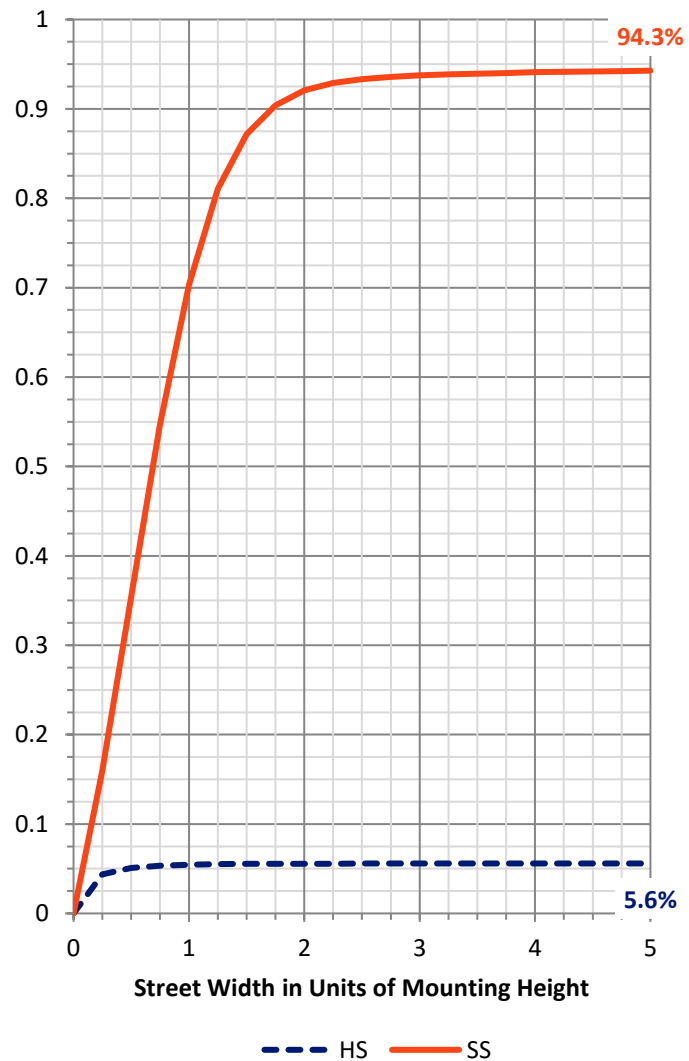
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1683.6   | 0.0    | 1683.6  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 28255.4  | 0.0    | 28255.4 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 29939.0  | 0.0    | 29939.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 342.5   | 1.1       |
| 10°-20°   | 1155.2  | 3.9       |
| 20°-30°   | 2297.6  | 7.7       |
| 30°-40°   | 4165.6  | 13.9      |
| 40°-50°   | 6236.6  | 20.8      |
| 50°-60°   | 7107.6  | 23.7      |
| 60°-70°   | 6037.7  | 20.2      |
| 70°-80°   | 2491.0  | 8.3       |
| 80°-90°   | 105.1   | 0.4       |
| 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°    | 29939.0 | 100.0     |
| 0°-180°   | 29939.0 | 100.0     |

**Coefficient of Utilization**



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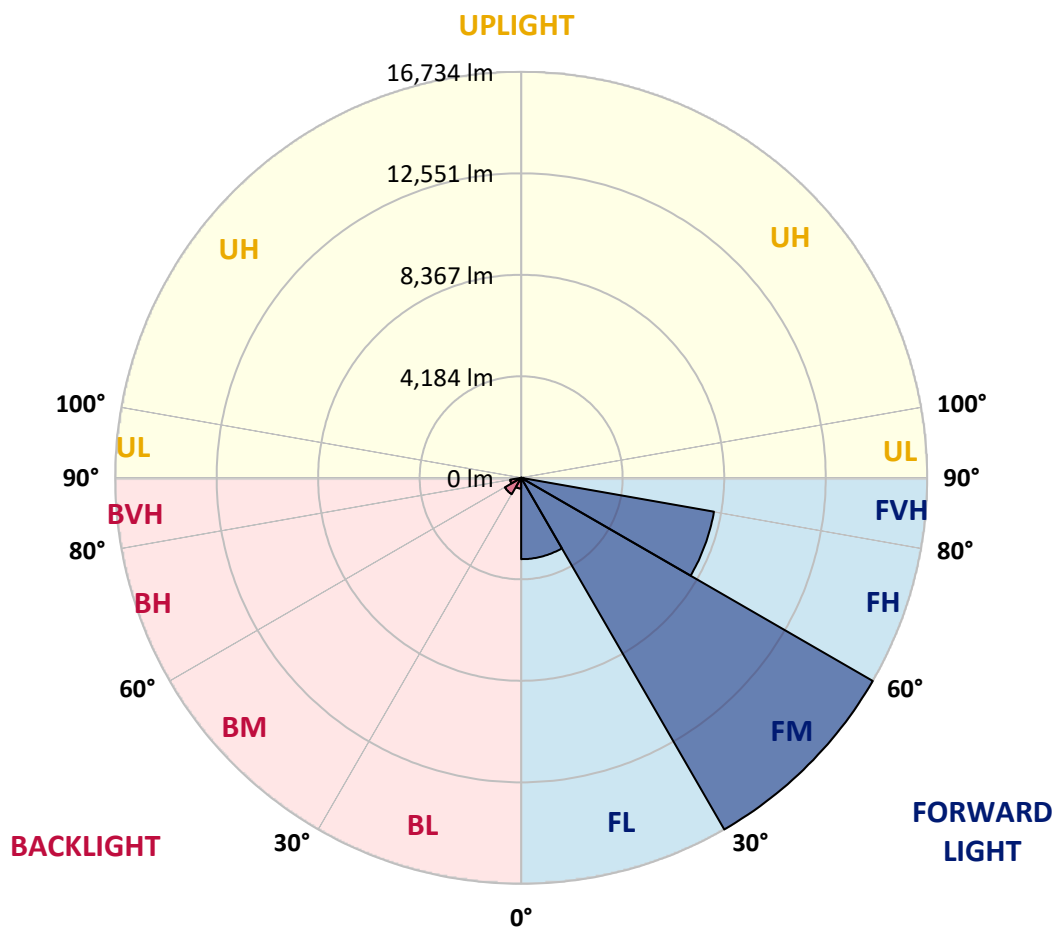
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3353.8  | 11.2      |                         |      |          |
| FM   | (30°-60°)   | 16734.0 | 55.9      |                         |      |          |
| FH   | (60°-80°)   | 8067.7  | 26.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 99.9    | 0.3       |                         |      | G1/100   |
| BL   | (0°-30°)    | 441.6   | 1.5       | B1/500                  |      |          |
| BM   | (30°-60°)   | 775.7   | 2.6       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 461.1   | 1.5       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 5.2     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B1-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3485.3  | 3485.3  | 3485.3  | 3485.3  | 3485.3  | 3485.3  | 3485.3  | 3485.3  | 3485.3  | 3485.3  | 3485.3  |
| 2.5°  | 4839.5  | 4781.2  | 4824.9  | 4773.9  | 4651.9  | 4499.8  | 4329.5  | 4114.6  | 3878.7  | 3642.8  | 3523.5  |
| 5°    | 5842.2  | 5722.9  | 5731.1  | 5666.4  | 5529.8  | 5325.8  | 5075.4  | 4711.1  | 4290.3  | 3818.6  | 3574.5  |
| 7.5°  | 6371.3  | 6269.3  | 6278.4  | 6232.0  | 6135.4  | 5965.1  | 5717.4  | 5285.7  | 4725.7  | 4037.2  | 3665.6  |
| 10°   | 6785.7  | 6721.9  | 6742.0  | 6714.6  | 6644.5  | 6507.9  | 6289.3  | 5854.0  | 5186.5  | 4299.4  | 3792.2  |
| 12.5° | 7210.1  | 7141.8  | 7180.0  | 7169.1  | 7126.3  | 7030.7  | 6810.3  | 6414.1  | 5664.6  | 4588.1  | 3935.2  |
| 15°   | 7462.3  | 7377.6  | 7456.9  | 7537.0  | 7588.9  | 7555.2  | 7388.6  | 6975.1  | 6180.1  | 4894.1  | 4087.3  |
| 17.5° | 7579.8  | 7509.7  | 7619.9  | 7757.4  | 7935.0  | 8030.6  | 7921.3  | 7564.3  | 6722.8  | 5232.0  | 4267.6  |
| 20°   | 7850.3  | 7786.5  | 7886.7  | 8031.5  | 8223.7  | 8421.3  | 8450.5  | 8171.8  | 7280.2  | 5596.3  | 4462.5  |
| 22.5° | 8479.6  | 8406.7  | 8450.5  | 8476.0  | 8606.2  | 8793.8  | 8921.3  | 8788.3  | 7854.8  | 5981.5  | 4668.3  |
| 25°   | 9568.8  | 9464.1  | 9411.2  | 9230.9  | 9218.2  | 9272.8  | 9353.9  | 9409.4  | 8435.0  | 6380.4  | 4871.4  |
| 27.5° | 11055.1 | 10917.6 | 10732.7 | 10283.7 | 10057.8 | 9928.5  | 9837.5  | 10031.4 | 9089.8  | 6765.6  | 5084.5  |
| 30°   | 12602.4 | 12429.3 | 12200.7 | 11658.0 | 11127.9 | 10785.5 | 10448.5 | 10668.9 | 9782.8  | 7224.6  | 5313.1  |
| 32.5° | 13935.6 | 13735.3 | 13434.7 | 12882.9 | 12327.3 | 11798.2 | 11227.2 | 11312.8 | 10561.5 | 7734.6  | 5576.3  |
| 35°   | 14993.9 | 14751.6 | 14505.7 | 13958.4 | 13460.2 | 12898.3 | 12161.6 | 11993.1 | 11470.4 | 8313.8  | 5904.1  |
| 37.5° | 15745.2 | 15487.5 | 15214.3 | 14738.9 | 14385.5 | 14007.6 | 13269.9 | 12795.4 | 12444.8 | 8991.4  | 6299.4  |
| 40°   | 16194.2 | 15921.9 | 15697.9 | 15355.4 | 15100.4 | 14993.0 | 14497.5 | 13737.1 | 13494.9 | 9781.9  | 6793.9  |
| 42.5° | 16368.1 | 16104.0 | 15945.6 | 15696.9 | 15593.1 | 15752.5 | 15695.1 | 14918.3 | 14757.1 | 10729.9 | 7386.7  |
| 45°   | 16250.7 | 16008.4 | 15913.7 | 15798.9 | 15851.8 | 16288.0 | 16828.0 | 16213.3 | 16176.0 | 11794.6 | 8073.4  |
| 47.5° | 15667.8 | 15476.6 | 15541.2 | 15632.3 | 15850.9 | 16591.3 | 17747.9 | 17600.3 | 17669.5 | 13013.1 | 8861.2  |
| 50°   | 14391.0 | 14283.5 | 14578.6 | 15044.9 | 15558.5 | 16665.0 | 18459.1 | 18917.2 | 19239.6 | 14300.8 | 9726.4  |
| 52.5° | 11848.3 | 11918.4 | 12874.7 | 13875.5 | 14870.9 | 16469.2 | 18850.7 | 20064.7 | 20671.2 | 15471.1 | 10526.0 |
| 55°   | 9094.3  | 9058.8  | 10275.5 | 12119.7 | 13685.2 | 15893.7 | 18949.1 | 20757.7 | 21904.3 | 16588.5 | 11267.3 |
| 57.5° | 7035.2  | 7006.1  | 7727.3  | 9771.9  | 11869.2 | 14836.3 | 18808.8 | 21185.8 | 23060.9 | 17655.9 | 12017.7 |
| 60°   | 5410.5  | 5393.2  | 5937.8  | 7292.0  | 9604.3  | 13306.3 | 18288.8 | 21391.6 | 24230.3 | 18817.0 | 12781.8 |
| 62.5° | 3882.3  | 3905.1  | 4371.4  | 5418.7  | 7455.0  | 11159.8 | 17230.6 | 21263.2 | 25355.0 | 19847.0 | 13487.6 |
| 65°   | 2409.7  | 2435.2  | 2833.2  | 3774.9  | 5368.6  | 8702.7  | 15447.4 | 20708.6 | 26262.1 | 20609.3 | 13988.5 |
| 67.5° | 1357.0  | 1369.7  | 1624.7  | 2288.6  | 3632.8  | 6446.0  | 12933.9 | 19566.5 | 26742.9 | 20929.9 | 13916.5 |
| 70°   | 914.3   | 918.9   | 994.5   | 1261.3  | 2091.0  | 4334.1  | 9787.4  | 17457.3 | 25879.6 | 19864.3 | 12577.8 |
| 72.5° | 729.5   | 732.2   | 785.0   | 848.8   | 1198.5  | 2685.7  | 6568.0  | 14134.2 | 21999.9 | 15745.2 | 9240.0  |
| 75°   | 539.1   | 551.0   | 650.2   | 686.7   | 812.4   | 1467.1  | 3532.6  | 9262.8  | 14850.9 | 8843.0  | 5024.4  |
| 77.5° | 453.5   | 456.3   | 488.1   | 566.5   | 620.2   | 832.4   | 1187.6  | 4093.6  | 6141.8  | 2612.8  | 1295.0  |
| 80°   | 306.9   | 306.9   | 363.4   | 416.2   | 472.7   | 548.2   | 469.0   | 1114.7  | 1137.5  | 421.7   | 240.4   |
| 82.5° | 214.9   | 222.2   | 260.5   | 351.5   | 384.3   | 294.2   | 240.4   | 308.7   | 262.3   | 139.3   | 75.6    |
| 85°   | 59.2    | 72.9    | 178.5   | 261.4   | 204.9   | 89.2    | 144.8   | 122.0   | 90.2    | 51.9    | 31.9    |
| 87.5° | 9.1     | 10.9    | 85.6    | 78.3    | 55.6    | 16.4    | 50.1    | 20.9    | 28.2    | 20.0    | 15.5    |
| 90°   | 0.0     | 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 |
| 2.5°  | 3395.1 | 3158.3 | 2905.2 | 2683.9 | 2495.3 | 2323.2 | 2239.4 | 2123.8 | 2121.9 | 2040.9 |
| 5°    | 3318.6 | 2820.5 | 2377.9 | 2003.6 | 1704.8 | 1490.8 | 1358.8 | 1247.7 | 1195.8 | 1174.8 |
| 7.5°  | 3273.1 | 2542.7 | 1937.1 | 1480.8 | 1167.5 | 987.2  | 884.3  | 842.4  | 819.6  | 808.7  |
| 10°   | 3262.2 | 2300.4 | 1560.0 | 1096.5 | 868.8  | 783.2  | 748.6  | 727.7  | 719.5  | 711.3  |
| 12.5° | 3255.8 | 2061.8 | 1260.4 | 867.9  | 756.8  | 707.6  | 676.7  | 653.9  | 643.9  | 636.6  |
| 15°   | 3252.1 | 1822.3 | 1013.6 | 763.2  | 691.2  | 643.0  | 605.6  | 583.8  | 570.1  | 562.8  |
| 17.5° | 3257.6 | 1607.4 | 844.2  | 704.9  | 635.7  | 576.5  | 538.2  | 510.0  | 499.1  | 489.0  |
| 20°   | 3267.6 | 1388.8 | 755.0  | 652.1  | 575.6  | 510.9  | 470.8  | 440.8  | 425.3  | 419.8  |
| 22.5° | 3272.2 | 1173.9 | 694.0  | 594.7  | 512.7  | 446.2  | 404.4  | 378.9  | 365.2  | 359.7  |
| 25°   | 3259.4 | 986.3  | 635.7  | 533.7  | 450.8  | 387.1  | 346.1  | 325.1  | 317.8  | 312.4  |
| 27.5° | 3229.4 | 826.9  | 577.4  | 471.7  | 394.3  | 337.0  | 303.3  | 284.1  | 278.7  | 277.8  |
| 30°   | 3179.3 | 703.1  | 519.1  | 415.3  | 344.2  | 294.2  | 265.0  | 249.5  | 246.8  | 245.0  |
| 32.5° | 3132.8 | 619.3  | 465.4  | 367.0  | 302.4  | 256.8  | 231.3  | 221.3  | 219.5  | 219.5  |
| 35°   | 3084.6 | 556.4  | 412.6  | 323.3  | 265.0  | 225.9  | 204.9  | 195.8  | 197.6  | 196.7  |
| 37.5° | 3048.1 | 501.8  | 371.6  | 287.8  | 232.2  | 196.7  | 178.5  | 172.1  | 175.8  | 175.8  |
| 40°   | 3026.3 | 458.1  | 329.7  | 255.0  | 203.1  | 171.2  | 155.7  | 151.2  | 157.6  | 158.5  |
| 42.5° | 3025.4 | 416.2  | 296.0  | 224.9  | 176.7  | 149.4  | 135.7  | 131.1  | 138.4  | 140.2  |
| 45°   | 3042.7 | 383.4  | 263.2  | 196.7  | 154.8  | 129.3  | 114.7  | 110.2  | 118.4  | 119.3  |
| 47.5° | 3113.7 | 356.1  | 234.1  | 173.0  | 135.7  | 112.0  | 94.7   | 90.2   | 99.3   | 100.2  |
| 50°   | 3231.2 | 319.7  | 202.2  | 151.2  | 118.4  | 94.7   | 76.5   | 72.9   | 82.9   | 83.8   |
| 52.5° | 3342.3 | 285.1  | 173.0  | 130.2  | 102.9  | 78.3   | 61.0   | 59.2   | 69.2   | 71.0   |
| 55°   | 3391.5 | 250.4  | 148.4  | 112.0  | 89.2   | 64.7   | 48.3   | 49.2   | 59.2   | 61.0   |
| 57.5° | 3417.9 | 221.3  | 128.4  | 96.5   | 77.4   | 52.8   | 41.0   | 41.9   | 51.0   | 52.8   |
| 60°   | 3438.8 | 192.2  | 112.9  | 84.7   | 67.4   | 44.6   | 35.5   | 34.6   | 41.9   | 43.7   |
| 62.5° | 3427.9 | 164.8  | 99.3   | 73.8   | 57.4   | 39.2   | 30.1   | 27.3   | 31.9   | 32.8   |
| 65°   | 3289.5 | 143.0  | 85.6   | 62.8   | 49.2   | 32.8   | 23.7   | 16.4   | 19.1   | 20.0   |
| 67.5° | 2901.5 | 125.7  | 72.9   | 53.7   | 40.1   | 28.2   | 17.3   | 10.9   | 12.7   | 13.7   |
| 70°   | 2165.7 | 107.5  | 59.2   | 44.6   | 32.8   | 22.8   | 12.7   | 7.3    | 9.1    | 10.0   |
| 72.5° | 1170.3 | 88.3   | 47.4   | 34.6   | 24.6   | 17.3   | 8.2    | 4.6    | 5.5    | 5.5    |
| 75°   | 483.6  | 63.7   | 35.5   | 23.7   | 17.3   | 12.7   | 6.4    | 1.8    | 1.8    | 1.8    |
| 77.5° | 179.4  | 39.2   | 22.8   | 18.2   | 13.7   | 10.0   | 4.6    | 0.9    | 0.0    | 0.0    |
| 80°   | 82.0   | 20.9   | 17.3   | 14.6   | 10.9   | 8.2    | 3.6    | 0.0    | 0.0    | 0.0    |
| 82.5° | 38.2   | 14.6   | 13.7   | 11.8   | 9.1    | 6.4    | 2.7    | 0.0    | 0.0    | 0.0    |
| 85°   | 18.2   | 11.8   | 12.7   | 10.9   | 9.1    | 5.5    | 1.8    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.9   | 12.7   | 12.7   | 10.9   | 9.1    | 5.5    | 0.9    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)