

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: P842018

Luminaire Tested: **ARCH4-260-727-U-T2R-HSS**

Issue Date: 5/27/2024

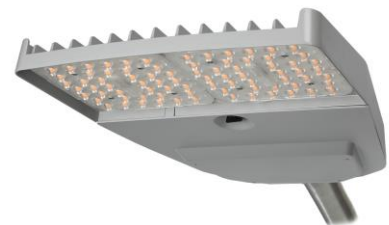
### Test Information

Test Method: LM-79-08  
Report Number: P842018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-260-727-U-T2R-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 25370 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

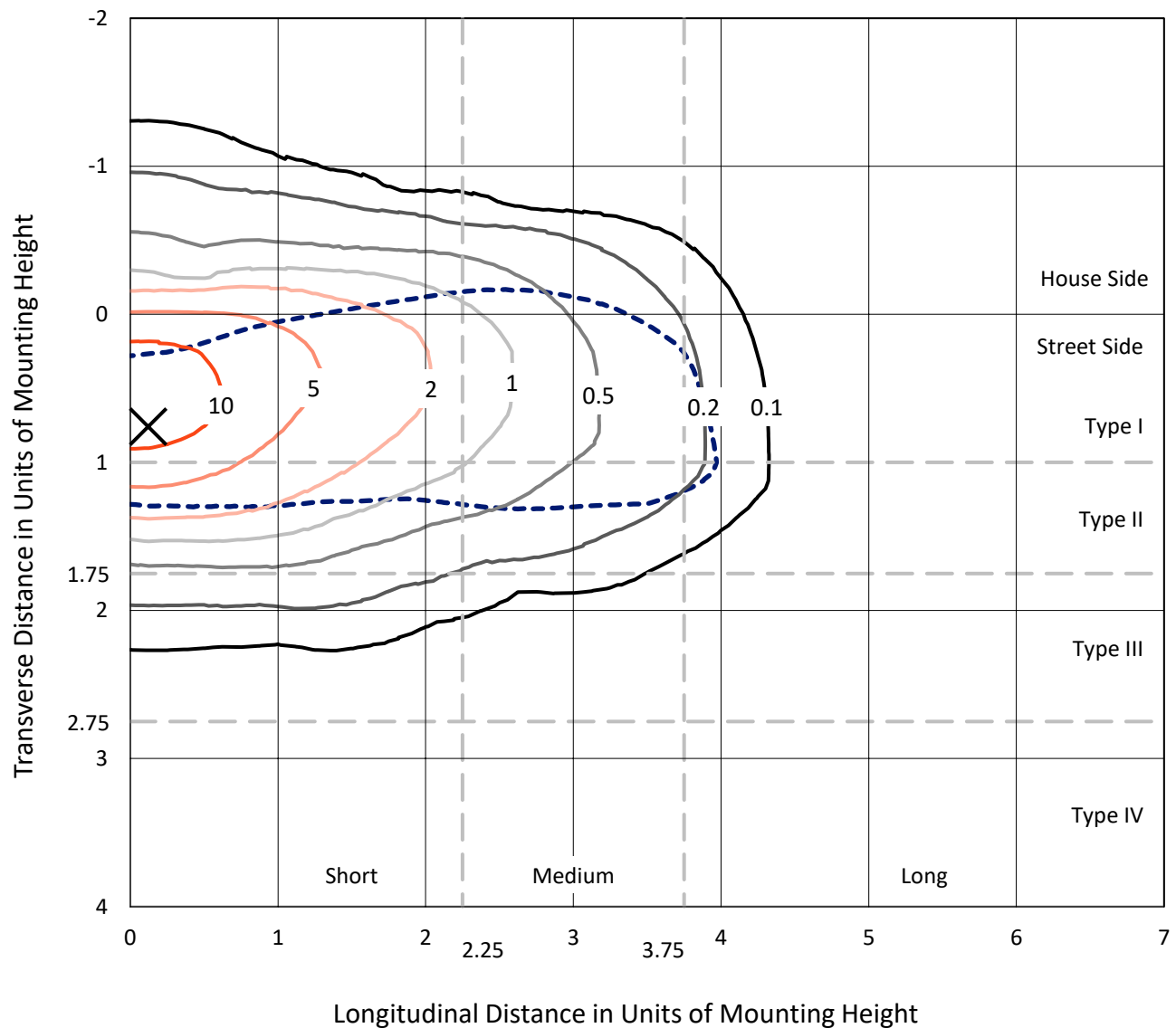
Input Watts (W): 259.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

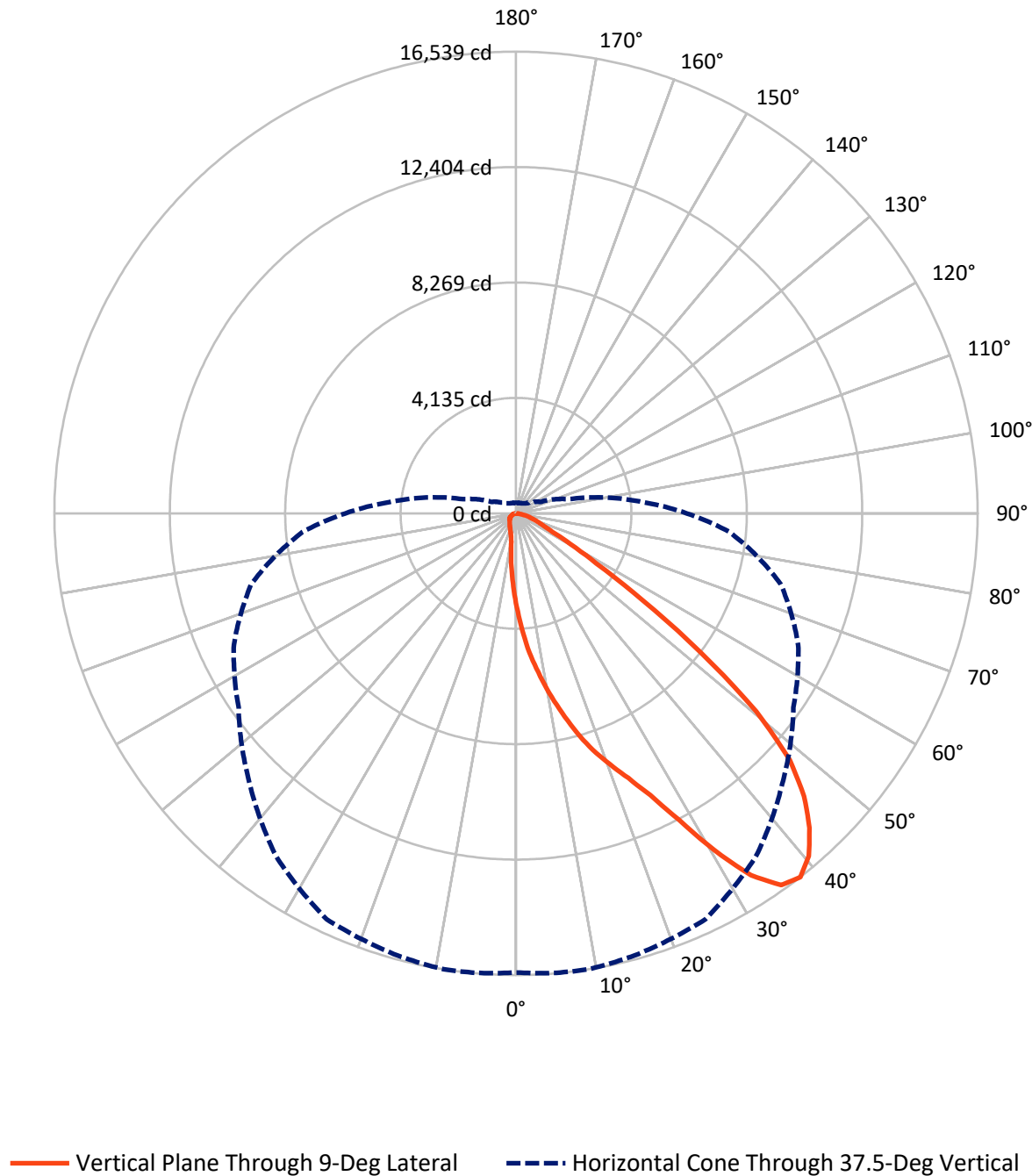
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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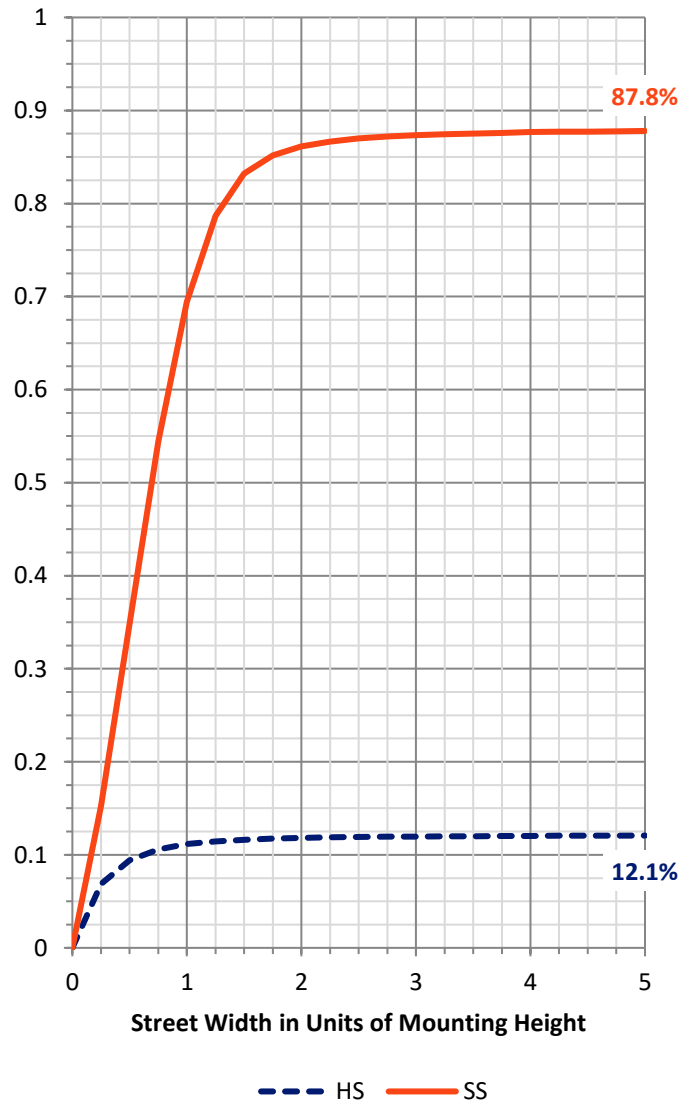
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3085.4   | 0.0    | 3085.4  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 22284.5  | 0.0    | 22284.5 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 25370.0  | 0.0    | 25370.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 337.1   | 1.3       |
| 10°-20°   | 1171.6  | 4.6       |
| 20°-30°   | 2407.4  | 9.5       |
| 30°-40°   | 4255.2  | 16.8      |
| 40°-50°   | 5652.7  | 22.3      |
| 50°-60°   | 5361.2  | 21.1      |
| 60°-70°   | 4090.2  | 16.1      |
| 70°-80°   | 1982.9  | 7.8       |
| 80°-90°   | 111.6   | 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°    | 25370.0 | 100.0     |
| 0°-180°   | 25370.0 | 100.0     |

**Coefficient of Utilization**



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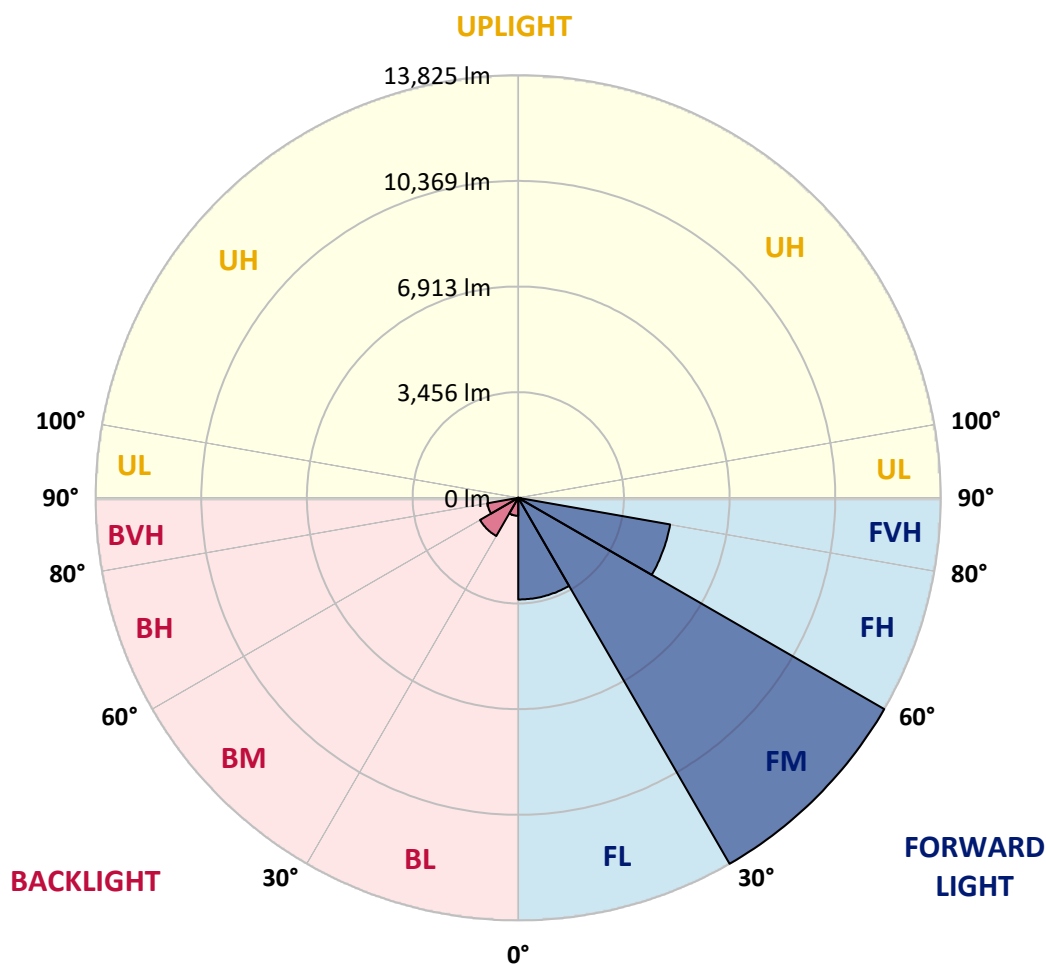
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3327.3  | 13.1      |                         |      |         |
| FM   | (30°-60°)   | 13825.4 | 54.5      |                         |      |         |
| FH   | (60°-80°)   | 5043.5  | 19.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 88.4    | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 588.8   | 2.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1443.8  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1029.6  | 4.1       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 23.2    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 9°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3353.6  | 3353.6  | 3353.6  | 3353.6  | 3353.6  | 3353.6  | 3353.6  | 3353.6  | 3353.6  | 3353.6  | 3353.6  |
| 2.5°  | 4155.6  | 4082.7  | 4166.0  | 4155.6  | 4082.7  | 4035.8  | 3890.0  | 3843.1  | 3671.3  | 3546.3  | 3436.9  |
| 5°    | 5009.6  | 4936.7  | 5009.6  | 4988.8  | 4884.6  | 4770.0  | 4530.5  | 4374.3  | 4067.0  | 3796.2  | 3551.5  |
| 7.5°  | 5717.8  | 5717.8  | 5749.0  | 5754.2  | 5629.3  | 5452.2  | 5155.4  | 4921.1  | 4488.8  | 4072.2  | 3681.7  |
| 10°   | 6483.3  | 6488.5  | 6556.2  | 6509.3  | 6342.7  | 6103.1  | 5728.2  | 5431.4  | 4910.6  | 4363.9  | 3806.7  |
| 12.5° | 7300.9  | 7306.1  | 7326.9  | 7306.1  | 7108.2  | 6800.9  | 6347.9  | 5957.3  | 5358.5  | 4697.1  | 3978.5  |
| 15°   | 8118.4  | 8123.6  | 8149.7  | 8113.2  | 7894.5  | 7535.2  | 7019.7  | 6540.6  | 5832.4  | 5072.1  | 4186.8  |
| 17.5° | 8883.9  | 8894.3  | 8915.2  | 8868.3  | 8639.2  | 8212.2  | 7686.2  | 7108.2  | 6337.5  | 5473.0  | 4421.1  |
| 20°   | 9571.3  | 9581.7  | 9597.4  | 9534.9  | 9305.7  | 8878.7  | 8311.1  | 7707.0  | 6853.0  | 5884.4  | 4676.3  |
| 22.5° | 10263.9 | 10274.3 | 10300.4 | 10217.0 | 9961.9  | 9472.4  | 8915.2  | 8290.3  | 7399.8  | 6337.5  | 4973.1  |
| 25°   | 11149.2 | 11159.6 | 11180.4 | 11060.7 | 10711.8 | 10138.9 | 9550.5  | 8910.0  | 7993.5  | 6847.8  | 5337.7  |
| 27.5° | 12445.8 | 12435.4 | 12435.4 | 12216.7 | 11617.9 | 10873.2 | 10191.0 | 9540.1  | 8634.0  | 7394.6  | 5738.6  |
| 30°   | 14049.7 | 14023.7 | 14008.1 | 13711.3 | 12857.2 | 11701.2 | 10847.1 | 10128.5 | 9248.5  | 7972.6  | 6170.8  |
| 32.5° | 15487.0 | 15487.0 | 15455.8 | 15143.3 | 14237.2 | 12815.6 | 11544.9 | 10701.3 | 9842.1  | 8555.9  | 6618.7  |
| 35°   | 16335.8 | 16372.3 | 16356.6 | 16122.3 | 15461.0 | 14013.3 | 12487.5 | 11388.7 | 10467.0 | 9165.1  | 7155.1  |
| 37.5° | 16450.4 | 16523.3 | 16538.9 | 16398.3 | 16049.4 | 14992.3 | 13534.2 | 12133.4 | 11154.4 | 9821.3  | 7675.8  |
| 40°   | 15986.9 | 16143.1 | 16143.1 | 16122.3 | 15997.3 | 15455.8 | 14414.3 | 12997.8 | 11862.6 | 10503.5 | 8201.8  |
| 42.5° | 15273.5 | 15434.9 | 15414.1 | 15492.2 | 15461.0 | 15346.4 | 14909.0 | 13805.0 | 12570.8 | 11206.5 | 8680.8  |
| 45°   | 14341.4 | 14508.0 | 14466.3 | 14606.9 | 14669.4 | 14794.4 | 14856.9 | 14367.4 | 13268.6 | 11972.0 | 9217.2  |
| 47.5° | 12846.8 | 13128.0 | 13190.5 | 13440.5 | 13700.8 | 14091.4 | 14388.2 | 14570.5 | 13919.6 | 12794.7 | 9800.4  |
| 50°   | 10638.8 | 11034.6 | 11159.6 | 11685.5 | 12399.0 | 13206.1 | 13685.2 | 14320.5 | 14377.8 | 13638.3 | 10430.6 |
| 52.5° | 7618.5  | 8076.8  | 8269.5  | 9133.9  | 10602.4 | 12008.4 | 12872.9 | 13768.5 | 14554.9 | 14445.5 | 11112.7 |
| 55°   | 4926.3  | 5316.8  | 5504.3  | 6316.7  | 8269.5  | 10477.4 | 11914.7 | 13055.1 | 14455.9 | 15185.0 | 11893.8 |
| 57.5° | 3036.0  | 3259.9  | 3384.9  | 4082.7  | 5879.2  | 8514.2  | 10659.7 | 12399.0 | 14153.9 | 15825.5 | 12706.2 |
| 60°   | 2046.5  | 2176.7  | 2239.2  | 2567.3  | 3994.1  | 6363.5  | 8936.0  | 11711.6 | 13758.1 | 16257.7 | 13445.7 |
| 62.5° | 1359.1  | 1400.8  | 1463.3  | 1666.4  | 2635.0  | 4468.0  | 6863.4  | 10482.6 | 13461.3 | 16283.7 | 13992.5 |
| 65°   | 1051.9  | 1072.7  | 1098.8  | 1187.3  | 1624.7  | 3124.5  | 4827.3  | 8493.4  | 13018.7 | 15731.7 | 14164.3 |
| 67.5° | 828.0   | 848.8   | 880.1   | 926.9   | 1176.9  | 2119.4  | 3285.9  | 6222.9  | 12112.6 | 14867.3 | 13883.1 |
| 70°   | 650.9   | 666.6   | 687.4   | 729.0   | 916.5   | 1536.2  | 2171.5  | 4134.7  | 10284.7 | 14044.5 | 12997.8 |
| 72.5° | 515.5   | 531.2   | 552.0   | 593.7   | 744.7   | 1124.8  | 1489.3  | 2577.7  | 7931.0  | 13039.5 | 11295.0 |
| 75°   | 406.2   | 416.6   | 432.2   | 473.9   | 598.9   | 874.9   | 1010.2  | 1541.4  | 5389.7  | 11201.3 | 8800.6  |
| 77.5° | 203.1   | 250.0   | 286.4   | 328.1   | 437.4   | 604.1   | 671.8   | 854.0   | 2275.7  | 5749.0  | 4197.2  |
| 80°   | 119.8   | 145.8   | 156.2   | 182.3   | 286.4   | 364.5   | 364.5   | 343.7   | 718.6   | 2208.0  | 1713.3  |
| 82.5° | 67.7    | 93.7    | 98.9    | 104.1   | 171.8   | 208.3   | 166.6   | 125.0   | 145.8   | 739.5   | 499.9   |
| 85°   | 20.8    | 31.2    | 36.5    | 41.7    | 57.3    | 62.5    | 57.3    | 52.1    | 41.7    | 72.9    | 46.9    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 5.2     | 10.4    | 10.4    | 10.4    | 15.6    | 15.6    | 15.6    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3353.6  | 3353.6 | 3353.6 | 3353.6 | 3353.6 | 3353.6 | 3353.6 | 3353.6 | 3353.6 | 3353.6 | 3353.6 |
| 2.5°  | 3374.4  | 3306.7 | 3176.6 | 3056.8 | 2942.2 | 2858.9 | 2780.8 | 2707.9 | 2655.8 | 2614.1 | 2608.9 |
| 5°    | 3421.3  | 3285.9 | 3036.0 | 2801.6 | 2588.1 | 2411.1 | 2260.0 | 2140.3 | 2051.7 | 1989.3 | 1984.0 |
| 7.5°  | 3483.8  | 3275.5 | 2895.4 | 2546.5 | 2228.8 | 1973.6 | 1754.9 | 1593.5 | 1478.9 | 1432.1 | 1395.6 |
| 10°   | 3535.9  | 3265.1 | 2754.7 | 2291.3 | 1874.7 | 1551.8 | 1291.5 | 1130.0 | 1046.7 | 1015.5 | 999.8  |
| 12.5° | 3624.4  | 3275.5 | 2635.0 | 2056.9 | 1567.4 | 1187.3 | 989.4  | 900.9  | 864.4  | 838.4  | 833.2  |
| 15°   | 3754.6  | 3322.4 | 2520.4 | 1827.8 | 1255.0 | 958.2  | 843.6  | 786.3  | 749.9  | 744.7  | 739.5  |
| 17.5° | 3884.8  | 3364.0 | 2416.3 | 1593.5 | 1041.5 | 833.2  | 755.1  | 708.2  | 682.2  | 677.0  | 677.0  |
| 20°   | 4035.8  | 3416.1 | 2301.7 | 1369.6 | 890.5  | 749.9  | 687.4  | 650.9  | 619.7  | 614.5  | 614.5  |
| 22.5° | 4212.8  | 3489.0 | 2192.3 | 1171.7 | 791.5  | 687.4  | 635.3  | 593.7  | 567.6  | 562.4  | 562.4  |
| 25°   | 4452.4  | 3598.4 | 2103.8 | 1025.9 | 723.8  | 635.3  | 588.4  | 552.0  | 531.2  | 520.7  | 520.7  |
| 27.5° | 4718.0  | 3749.4 | 2041.3 | 937.3  | 677.0  | 593.7  | 546.8  | 515.5  | 494.7  | 484.3  | 484.3  |
| 30°   | 5014.8  | 3916.0 | 1999.7 | 900.9  | 650.9  | 557.2  | 515.5  | 484.3  | 458.3  | 453.0  | 453.0  |
| 32.5° | 5342.9  | 4108.7 | 1973.6 | 906.1  | 645.7  | 531.2  | 484.3  | 453.0  | 432.2  | 421.8  | 421.8  |
| 35°   | 5707.4  | 4322.2 | 1958.0 | 937.3  | 656.1  | 510.3  | 458.3  | 427.0  | 406.2  | 395.8  | 395.8  |
| 37.5° | 6113.6  | 4572.2 | 1958.0 | 968.6  | 682.2  | 505.1  | 432.2  | 401.0  | 385.4  | 374.9  | 374.9  |
| 40°   | 6493.7  | 4837.7 | 1978.8 | 1005.0 | 708.2  | 505.1  | 411.4  | 385.4  | 364.5  | 354.1  | 354.1  |
| 42.5° | 6790.5  | 4988.8 | 1994.5 | 1041.5 | 723.8  | 499.9  | 390.6  | 364.5  | 348.9  | 338.5  | 338.5  |
| 45°   | 7129.0  | 5150.2 | 1963.2 | 1057.1 | 723.8  | 489.5  | 374.9  | 348.9  | 333.3  | 322.9  | 322.9  |
| 47.5° | 7504.0  | 5348.1 | 1958.0 | 1067.5 | 708.2  | 468.7  | 359.3  | 333.3  | 322.9  | 312.4  | 312.4  |
| 50°   | 7884.1  | 5566.8 | 1968.4 | 1062.3 | 687.4  | 437.4  | 338.5  | 322.9  | 307.2  | 296.8  | 296.8  |
| 52.5° | 8316.3  | 5795.9 | 1989.3 | 1051.9 | 640.5  | 401.0  | 322.9  | 307.2  | 291.6  | 281.2  | 276.0  |
| 55°   | 8795.4  | 6045.9 | 2030.9 | 1031.1 | 578.0  | 364.5  | 307.2  | 291.6  | 270.8  | 260.4  | 255.2  |
| 57.5° | 9347.4  | 6353.1 | 2077.8 | 989.4  | 510.3  | 333.3  | 291.6  | 270.8  | 239.5  | 223.9  | 218.7  |
| 60°   | 9873.4  | 6702.0 | 2129.9 | 890.5  | 442.6  | 302.0  | 276.0  | 244.8  | 213.5  | 203.1  | 197.9  |
| 62.5° | 10368.1 | 7045.7 | 2155.9 | 713.4  | 374.9  | 276.0  | 260.4  | 223.9  | 192.7  | 182.3  | 177.1  |
| 65°   | 10685.7 | 7420.6 | 2098.6 | 484.3  | 307.2  | 255.2  | 239.5  | 208.3  | 177.1  | 161.4  | 161.4  |
| 67.5° | 10706.5 | 7597.7 | 1900.7 | 317.7  | 250.0  | 229.1  | 218.7  | 187.5  | 156.2  | 145.8  | 140.6  |
| 70°   | 10180.6 | 7332.1 | 1452.9 | 250.0  | 208.3  | 197.9  | 197.9  | 166.6  | 135.4  | 125.0  | 119.8  |
| 72.5° | 8972.5  | 6493.7 | 926.9  | 203.1  | 177.1  | 166.6  | 166.6  | 140.6  | 119.8  | 104.1  | 98.9   |
| 75°   | 7082.2  | 5009.6 | 494.7  | 166.6  | 145.8  | 140.6  | 130.2  | 114.6  | 98.9   | 88.5   | 83.3   |
| 77.5° | 3254.7  | 2208.0 | 229.1  | 119.8  | 109.4  | 109.4  | 98.9   | 83.3   | 78.1   | 67.7   | 67.7   |
| 80°   | 1286.2  | 749.9  | 114.6  | 78.1   | 72.9   | 72.9   | 72.9   | 57.3   | 57.3   | 46.9   | 41.7   |
| 82.5° | 354.1   | 156.2  | 57.3   | 46.9   | 46.9   | 46.9   | 41.7   | 36.5   | 36.5   | 31.2   | 31.2   |
| 85°   | 36.5    | 26.0   | 26.0   | 26.0   | 26.0   | 20.8   | 20.8   | 15.6   | 10.4   | 10.4   | 10.4   |
| 87.5° | 15.6    | 15.6   | 15.6   | 15.6   | 15.6   | 10.4   | 5.2    | 0.0    | 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    | 0.0    |

(END OF REPORT)