

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: P324722

Luminaire Tested: **GAN-SA8B-727-U-AFL-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P324722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8B-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31355 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 334  
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

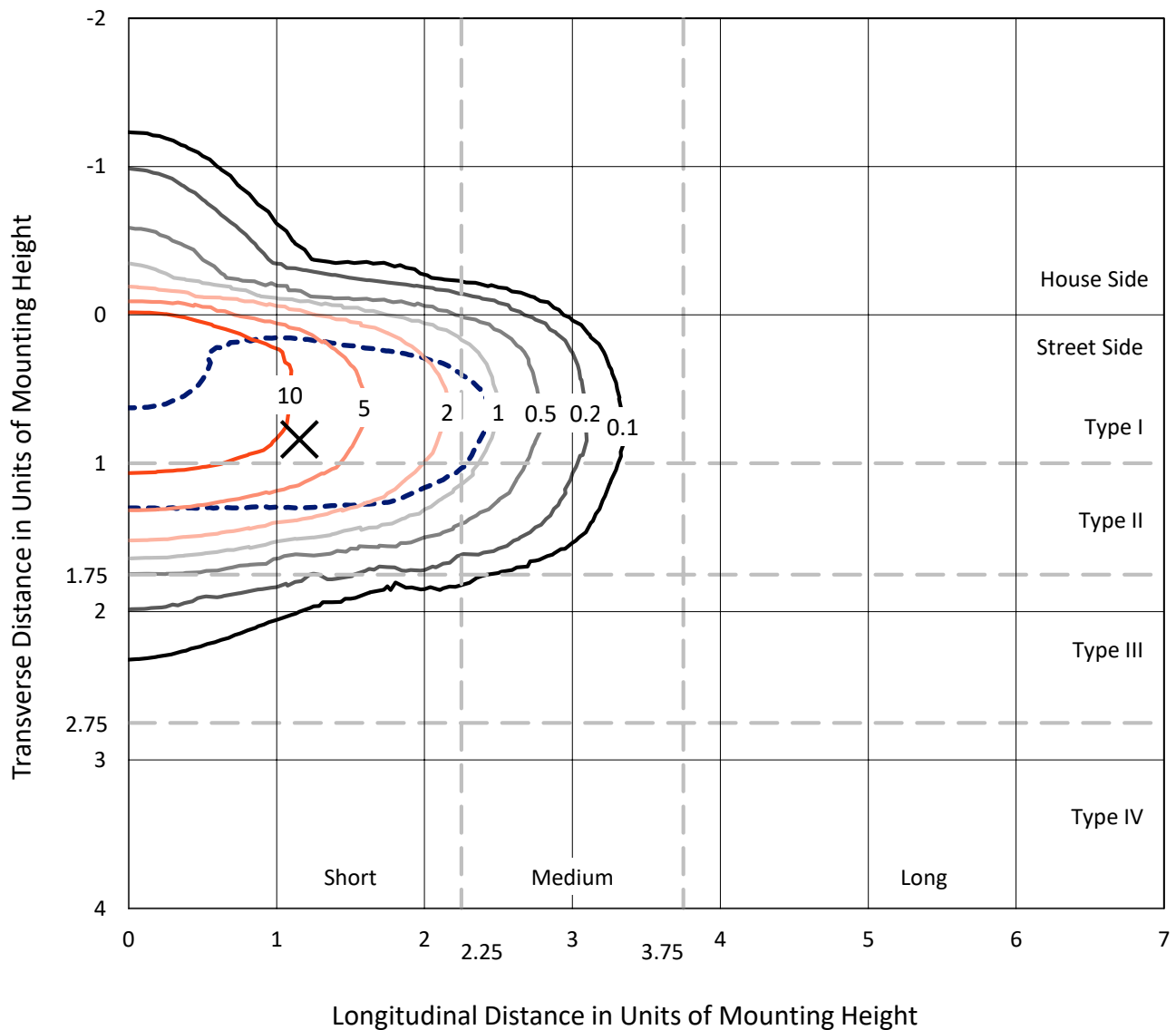


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## Iso-Footcandle Lines of Horizontal Illumination

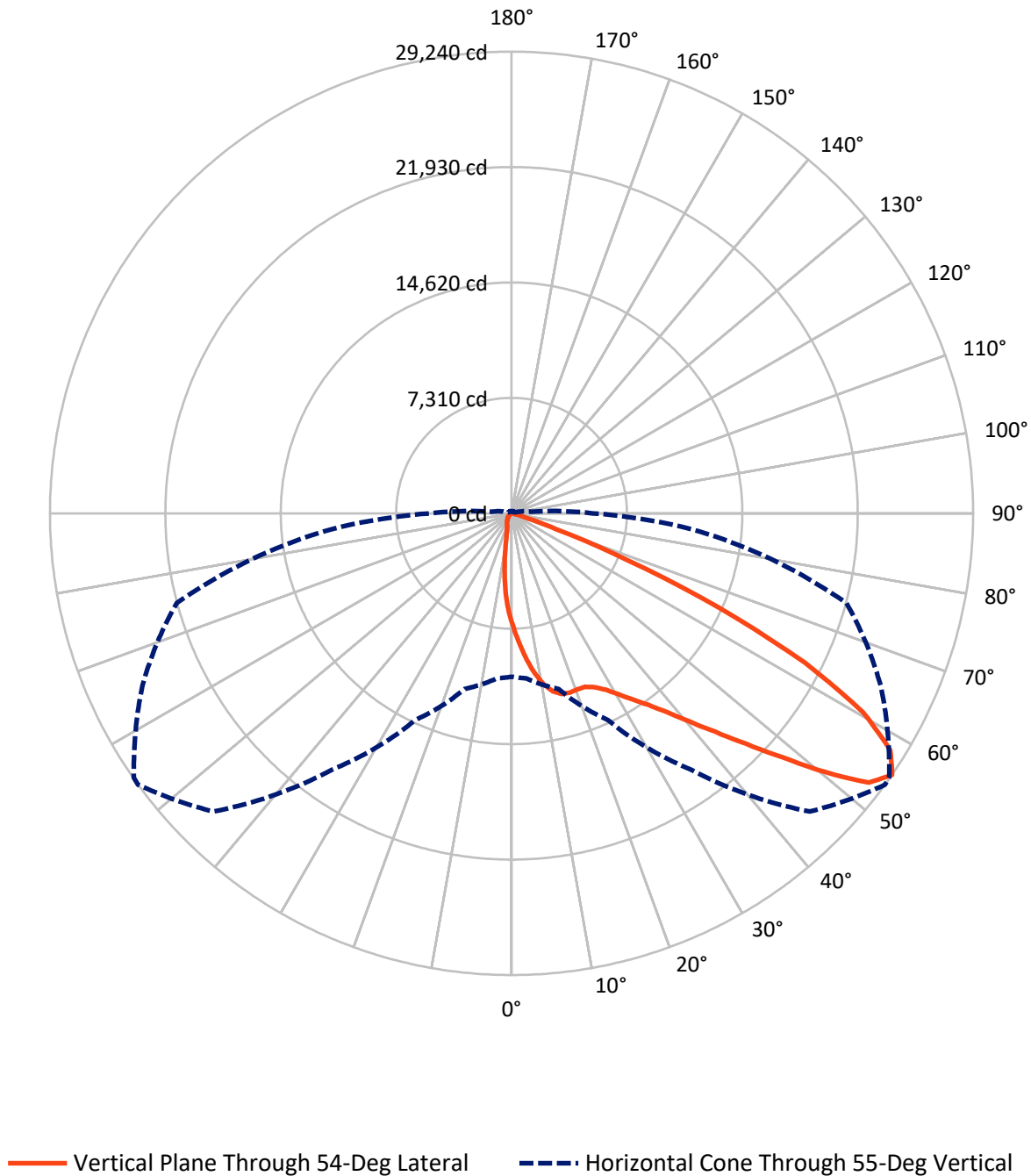
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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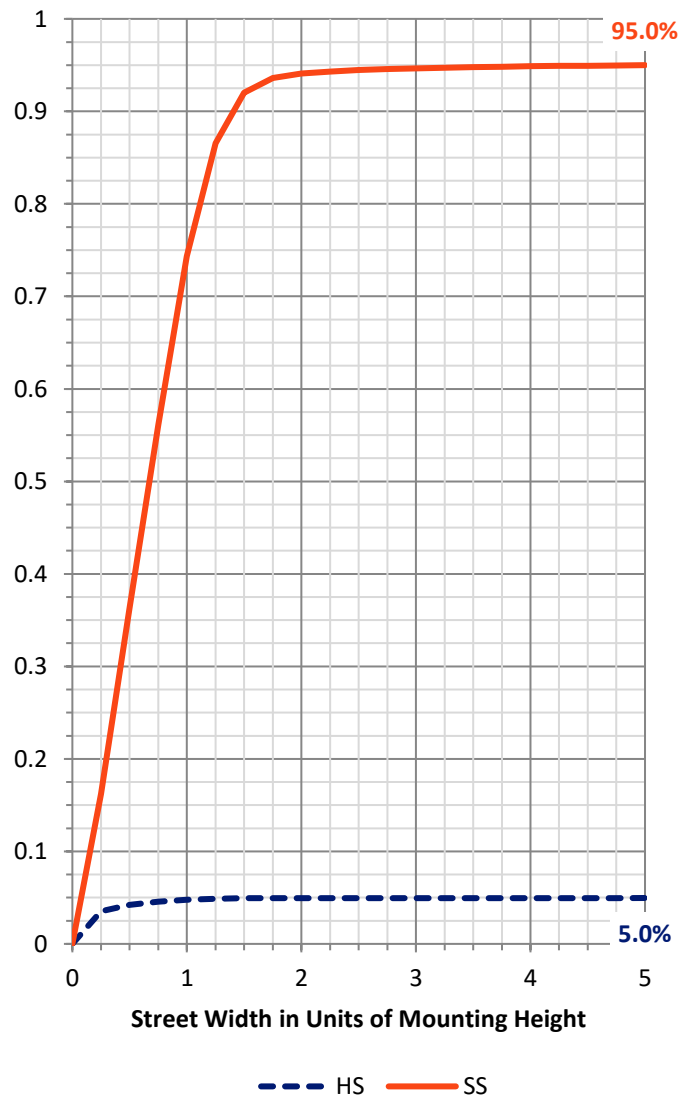
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1564.4   | 0.0    | 1564.4  |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 29790.6  | 0.0    | 29790.6 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 31355.0  | 0.0    | 31355.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 646.7   | 2.1       |
| 10°-20°   | 1773.5  | 5.7       |
| 20°-30°   | 3028.0  | 9.7       |
| 30°-40°   | 4859.4  | 15.5      |
| 40°-50°   | 7765.3  | 24.8      |
| 50°-60°   | 8320.7  | 26.5      |
| 60°-70°   | 4272.1  | 13.6      |
| 70°-80°   | 647.1   | 2.1       |
| 80°-90°   | 42.1    | 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°    | 31355.0 | 100.0     |
| 0°-180°   | 31355.0 | 100.0     |

**Coefficient of Utilization**



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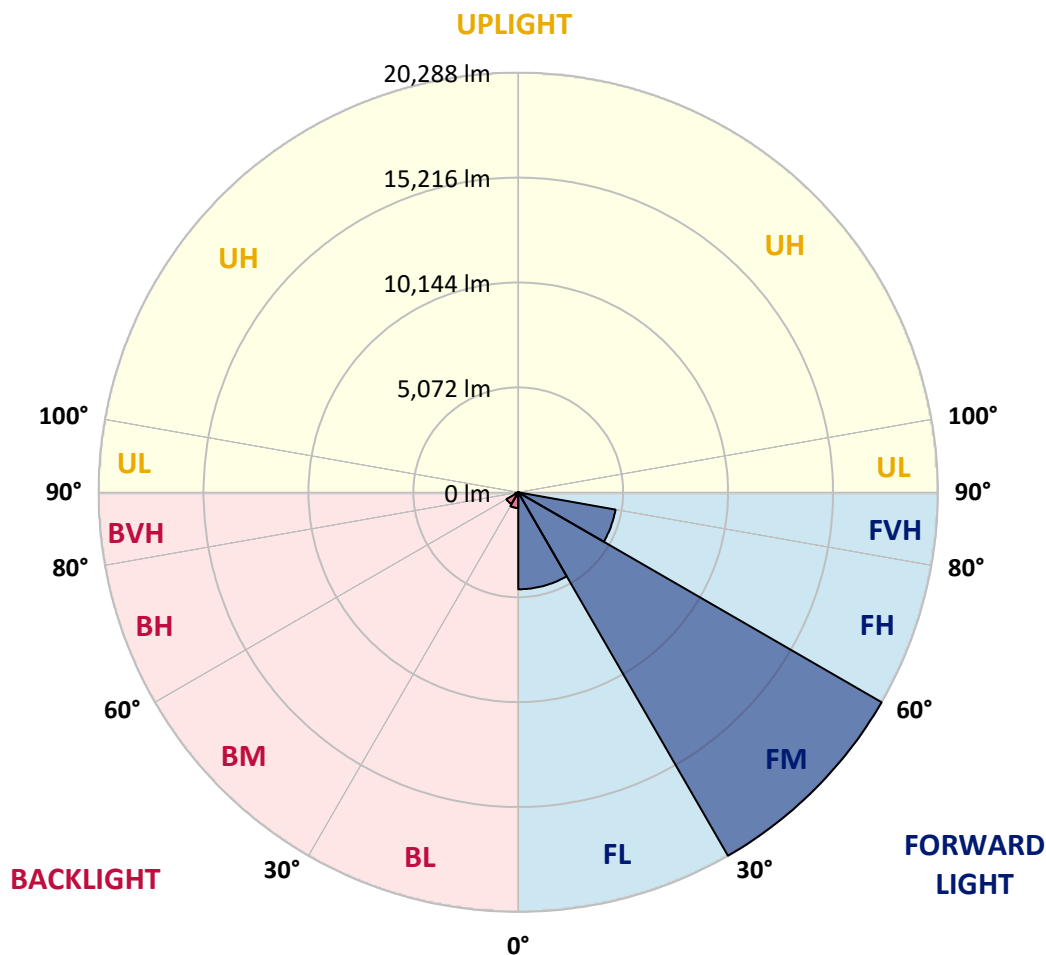
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4687.0  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 20288.1 | 64.7      |                         |      |         |
| FH   | (60°-80°)   | 4775.1  | 15.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 40.4    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 761.1   | 2.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 657.4   | 2.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 144.2   | 0.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.7     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7022.3  | 7022.3  | 7022.3  | 7022.3  | 7022.3  | 7022.3  | 7022.3  | 7022.3  | 7022.3  | 7022.3  | 7022.3  |
| 2.5°  | 8812.4  | 8681.0  | 8685.1  | 8625.5  | 8407.5  | 8236.9  | 8059.5  | 8017.5  | 7741.3  | 7451.5  | 7172.6  |
| 5°    | 10335.7 | 10239.6 | 10216.5 | 10101.4 | 9798.1  | 9477.2  | 9133.3  | 9053.4  | 8513.1  | 7920.0  | 7336.4  |
| 7.5°  | 11118.4 | 11119.7 | 11100.8 | 11058.8 | 10869.2 | 10557.8 | 10138.0 | 10054.0 | 9318.8  | 8429.2  | 7507.0  |
| 10°   | 10890.9 | 10942.3 | 11047.9 | 11187.4 | 11332.3 | 11293.0 | 10977.5 | 10901.7 | 10102.8 | 8968.1  | 7696.6  |
| 12.5° | 10360.1 | 10366.8 | 10484.6 | 10713.5 | 11130.5 | 11558.4 | 11563.8 | 11538.1 | 10851.6 | 9531.4  | 7905.1  |
| 15°   | 10096.0 | 10121.8 | 10165.1 | 10312.7 | 10708.1 | 11393.2 | 11883.4 | 11920.0 | 11538.1 | 10129.9 | 8127.2  |
| 17.5° | 10269.3 | 10305.9 | 10269.3 | 10286.9 | 10515.8 | 11131.9 | 11938.9 | 12032.4 | 12138.0 | 10721.6 | 8337.1  |
| 20°   | 10739.2 | 10773.1 | 10708.1 | 10636.3 | 10681.0 | 11056.1 | 11899.7 | 12025.6 | 12607.8 | 11247.0 | 8513.1  |
| 22.5° | 11372.9 | 11386.5 | 11287.6 | 11169.8 | 11137.3 | 11313.3 | 11932.2 | 12062.1 | 12984.3 | 11722.3 | 8624.1  |
| 25°   | 12070.3 | 12082.5 | 11959.2 | 11823.8 | 11746.6 | 11818.4 | 12198.9 | 12296.4 | 13316.0 | 12175.9 | 8687.8  |
| 27.5° | 12829.9 | 12840.7 | 12686.4 | 12519.8 | 12430.5 | 12433.2 | 12639.0 | 12743.3 | 13669.4 | 12693.2 | 8739.2  |
| 30°   | 13632.9 | 13627.5 | 13485.3 | 13253.7 | 13140.0 | 13137.3 | 13272.7 | 13378.3 | 14181.3 | 13356.7 | 8809.6  |
| 32.5° | 14534.7 | 14523.9 | 14322.1 | 14035.0 | 13906.4 | 13925.4 | 14045.9 | 14106.8 | 14816.3 | 14063.5 | 8935.6  |
| 35°   | 15722.2 | 15691.1 | 15386.4 | 15030.3 | 14793.3 | 14786.6 | 14888.1 | 14936.9 | 15626.1 | 14919.3 | 9145.5  |
| 37.5° | 17263.2 | 17234.7 | 16821.7 | 16304.5 | 15971.4 | 15846.8 | 15967.3 | 16029.6 | 16781.1 | 16017.4 | 9482.6  |
| 40°   | 18782.5 | 18754.0 | 18508.9 | 18035.0 | 17521.8 | 17222.6 | 17317.3 | 17383.7 | 18223.2 | 17349.8 | 9907.8  |
| 42.5° | 19830.5 | 19854.9 | 19940.2 | 19979.5 | 19498.8 | 18870.5 | 18913.8 | 18982.9 | 19738.4 | 18774.3 | 10393.9 |
| 45°   | 20106.7 | 20159.6 | 20641.6 | 21588.1 | 21768.2 | 21278.0 | 20824.4 | 20862.3 | 21278.0 | 20198.8 | 10880.0 |
| 47.5° | 19276.7 | 19374.2 | 20304.4 | 22064.7 | 23589.4 | 23936.1 | 23077.6 | 23027.5 | 22755.3 | 21351.1 | 11225.3 |
| 50°   | 17390.5 | 17479.8 | 18685.0 | 21288.9 | 24141.9 | 26473.6 | 25777.6 | 25630.0 | 24051.2 | 22040.4 | 11347.2 |
| 52.5° | 14660.6 | 14769.0 | 15748.0 | 18846.1 | 23100.6 | 27605.6 | 28334.1 | 28210.9 | 25001.7 | 22094.5 | 11367.5 |
| 55°   | 10353.3 | 10484.6 | 11520.5 | 14444.0 | 19800.7 | 26705.2 | 29240.0 | 29203.5 | 25791.2 | 21951.0 | 11410.8 |
| 57.5° | 5818.5  | 5913.3  | 7030.4  | 9259.2  | 14502.2 | 23260.4 | 28293.5 | 28535.9 | 26267.8 | 21701.8 | 11475.8 |
| 60°   | 2583.6  | 2609.3  | 3187.5  | 4609.3  | 8490.1  | 17776.4 | 25584.0 | 25992.9 | 25858.9 | 21368.7 | 11585.5 |
| 62.5° | 1432.6  | 1411.0  | 1411.0  | 1916.0  | 3689.9  | 11004.6 | 20862.3 | 21538.0 | 24113.5 | 20974.7 | 11590.9 |
| 65°   | 1122.5  | 1102.2  | 1044.0  | 1052.1  | 1405.5  | 4884.2  | 14446.7 | 15647.8 | 20798.7 | 19819.7 | 11201.0 |
| 67.5° | 951.9   | 934.3   | 876.1   | 853.1   | 873.4   | 1611.4  | 7937.6  | 9184.7  | 15781.8 | 16817.7 | 9702.0  |
| 70°   | 804.3   | 792.1   | 762.3   | 733.9   | 682.5   | 796.2   | 3037.2  | 3884.9  | 9725.0  | 11187.4 | 6622.8  |
| 72.5° | 647.3   | 641.8   | 652.7   | 628.3   | 566.0   | 530.8   | 1038.6  | 1257.9  | 4368.3  | 4992.5  | 2728.5  |
| 75°   | 557.9   | 555.2   | 560.6   | 536.2   | 465.8   | 369.7   | 528.1   | 576.8   | 1232.2  | 1221.4  | 552.5   |
| 77.5° | 362.9   | 367.0   | 464.4   | 453.6   | 400.8   | 246.4   | 273.5   | 295.2   | 373.7   | 280.3   | 167.9   |
| 80°   | 231.5   | 228.8   | 235.6   | 376.4   | 360.2   | 188.2   | 136.8   | 143.5   | 180.1   | 138.1   | 81.2    |
| 82.5° | 140.8   | 138.1   | 154.4   | 176.0   | 181.4   | 131.3   | 84.0    | 85.3    | 112.4   | 89.4    | 43.3    |
| 85°   | 12.2    | 16.2    | 93.4    | 86.7    | 62.3    | 40.6    | 40.6    | 43.3    | 59.6    | 52.8    | 24.4    |
| 87.5° | 0.0     | 0.0     | 16.2    | 24.4    | 13.5    | 14.9    | 14.9    | 16.2    | 23.0    | 23.0    | 12.2    |
| 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°    | 7022.3 | 7022.3 | 7022.3 | 7022.3 | 7022.3 | 7022.3 | 7022.3 | 7022.3 | 7022.3 | 7022.3 | 7022.3 |
| 2.5°  | 7027.7 | 6886.9 | 6602.5 | 6329.0 | 6097.4 | 5874.0 | 5619.4 | 5367.6 | 5249.8 | 5202.4 | 5153.6 |
| 5°    | 7039.9 | 6750.1 | 6163.8 | 5573.4 | 4961.4 | 4410.2 | 3940.4 | 3458.3 | 3217.3 | 3111.7 | 3062.9 |
| 7.5°  | 7056.1 | 6614.7 | 5666.8 | 4675.6 | 3689.9 | 2942.4 | 2289.8 | 1870.0 | 1688.5 | 1660.1 | 1589.7 |
| 10°   | 7058.8 | 6450.8 | 5090.0 | 3684.5 | 2473.9 | 1773.8 | 1364.9 | 1148.3 | 1068.4 | 1054.8 | 1031.8 |
| 12.5° | 7064.2 | 6257.2 | 4449.5 | 2728.5 | 1649.3 | 1186.2 | 987.1  | 915.4  | 893.7  | 892.3  | 892.3  |
| 15°   | 7080.5 | 6054.1 | 3784.7 | 1966.1 | 1184.8 | 939.7  | 866.6  | 838.2  | 830.1  | 834.1  | 832.8  |
| 17.5° | 7080.5 | 5814.4 | 3132.0 | 1465.1 | 957.3  | 844.9  | 804.3  | 785.4  | 782.7  | 786.7  | 788.1  |
| 20°   | 7029.0 | 5523.3 | 2533.5 | 1140.1 | 849.0  | 784.0  | 747.5  | 729.8  | 723.1  | 725.8  | 727.1  |
| 22.5° | 6905.8 | 5165.8 | 2046.0 | 943.8  | 777.2  | 728.5  | 689.2  | 662.1  | 651.3  | 652.7  | 652.7  |
| 25°   | 6713.5 | 4742.0 | 1600.5 | 816.5  | 719.0  | 668.9  | 622.9  | 591.7  | 585.0  | 583.6  | 586.3  |
| 27.5° | 6467.1 | 4273.5 | 1274.2 | 719.0  | 650.0  | 602.6  | 556.5  | 530.8  | 525.4  | 526.7  | 528.1  |
| 30°   | 6224.7 | 3787.4 | 1004.7 | 636.4  | 572.8  | 528.1  | 492.9  | 480.7  | 480.7  | 484.8  | 486.1  |
| 32.5° | 6002.6 | 3320.2 | 794.8  | 564.7  | 503.7  | 463.1  | 442.8  | 441.4  | 448.2  | 450.9  | 452.3  |
| 35°   | 5811.7 | 2888.3 | 658.1  | 509.1  | 449.6  | 414.3  | 407.6  | 413.0  | 421.1  | 426.5  | 427.9  |
| 37.5° | 5676.3 | 2502.3 | 575.5  | 463.1  | 407.6  | 379.1  | 377.8  | 388.6  | 399.5  | 411.6  | 414.3  |
| 40°   | 5619.4 | 2176.0 | 518.6  | 422.5  | 373.7  | 352.1  | 348.0  | 362.9  | 383.2  | 400.8  | 403.5  |
| 42.5° | 5572.0 | 1909.3 | 469.9  | 383.2  | 346.6  | 315.5  | 314.1  | 333.1  | 357.5  | 375.1  | 379.1  |
| 45°   | 5531.4 | 1695.3 | 425.2  | 341.2  | 311.4  | 270.8  | 274.9  | 299.3  | 318.2  | 337.2  | 341.2  |
| 47.5° | 5447.5 | 1519.3 | 376.4  | 296.5  | 257.3  | 231.5  | 239.7  | 261.3  | 276.2  | 304.7  | 308.7  |
| 50°   | 5297.2 | 1375.7 | 326.3  | 242.4  | 209.9  | 200.4  | 212.6  | 227.5  | 246.4  | 270.8  | 273.5  |
| 52.5° | 5195.6 | 1267.4 | 283.0  | 203.1  | 173.3  | 176.0  | 188.2  | 193.6  | 204.5  | 213.9  | 211.2  |
| 55°   | 5137.4 | 1207.8 | 247.8  | 176.0  | 147.6  | 155.7  | 158.4  | 151.7  | 146.2  | 136.8  | 132.7  |
| 57.5° | 5130.6 | 1153.7 | 220.7  | 153.0  | 130.0  | 134.1  | 124.6  | 101.6  | 82.6   | 71.8   | 69.1   |
| 60°   | 5119.8 | 1087.3 | 199.0  | 128.6  | 115.1  | 109.7  | 89.4   | 55.5   | 39.3   | 36.6   | 36.6   |
| 62.5° | 5002.0 | 984.4  | 182.8  | 108.3  | 97.5   | 82.6   | 51.5   | 25.7   | 21.7   | 23.0   | 23.0   |
| 65°   | 4626.9 | 840.9  | 166.6  | 88.0   | 77.2   | 59.6   | 25.7   | 14.9   | 8.1    | 9.5    | 9.5    |
| 67.5° | 3933.6 | 670.3  | 148.9  | 67.7   | 58.2   | 37.9   | 14.9   | 6.8    | 0.0    | 0.0    | 0.0    |
| 70°   | 2633.7 | 415.7  | 125.9  | 47.4   | 37.9   | 23.0   | 10.8   | 1.4    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1010.1 | 224.8  | 101.6  | 28.4   | 24.4   | 16.2   | 6.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 227.5  | 147.6  | 70.4   | 20.3   | 17.6   | 10.8   | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 86.7   | 107.0  | 40.6   | 13.5   | 12.2   | 6.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 42.0   | 63.6   | 19.0   | 8.1    | 6.8    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 21.7   | 24.4   | 8.1    | 4.1    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 12.2   | 12.2   | 4.1    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 6.8    | 4.1    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 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)