

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: P324732

Luminaire Tested: **GAN-SA8C-727-U-AFL-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P324732  
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-SA8C-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA 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: 38809 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

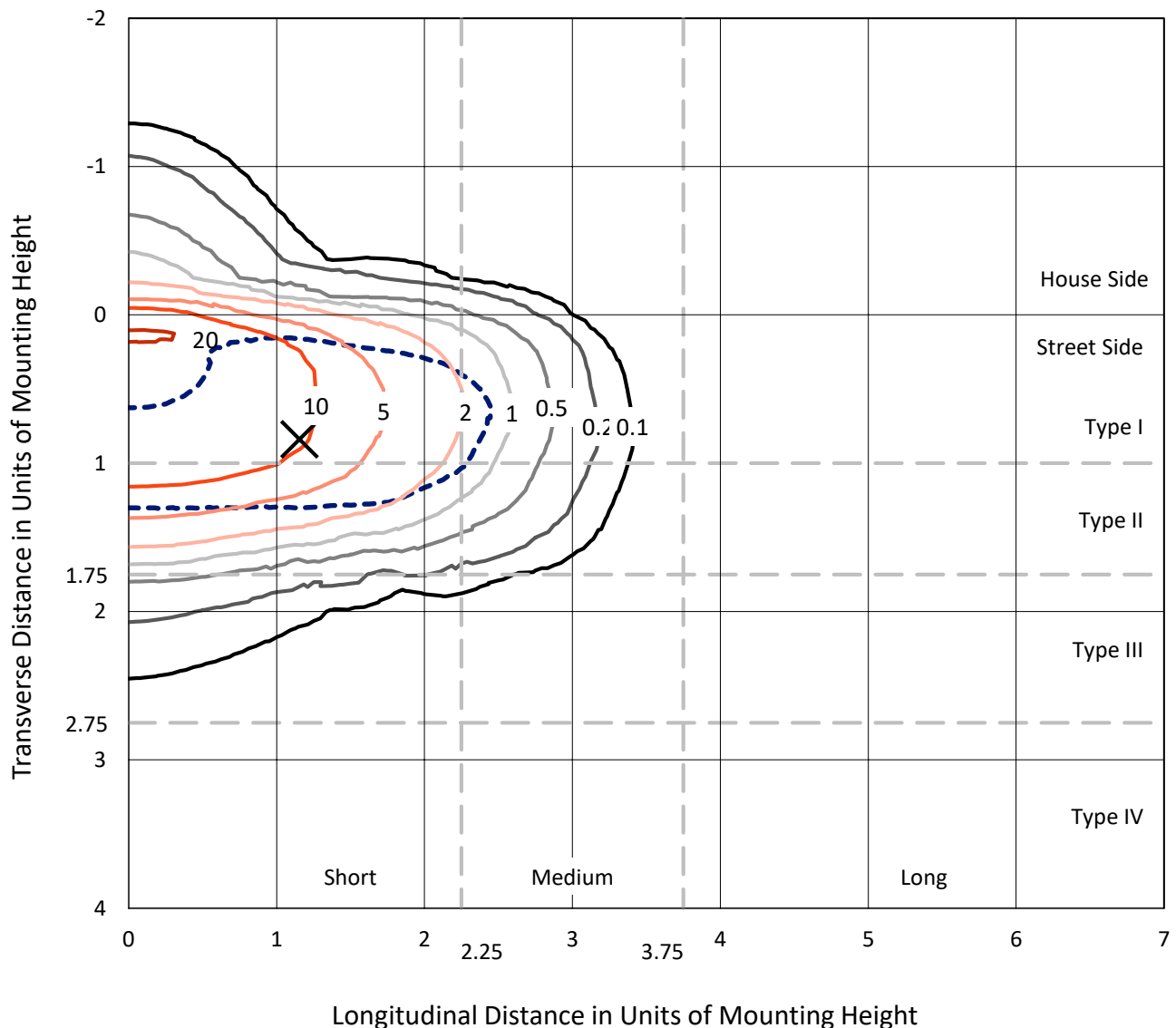
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

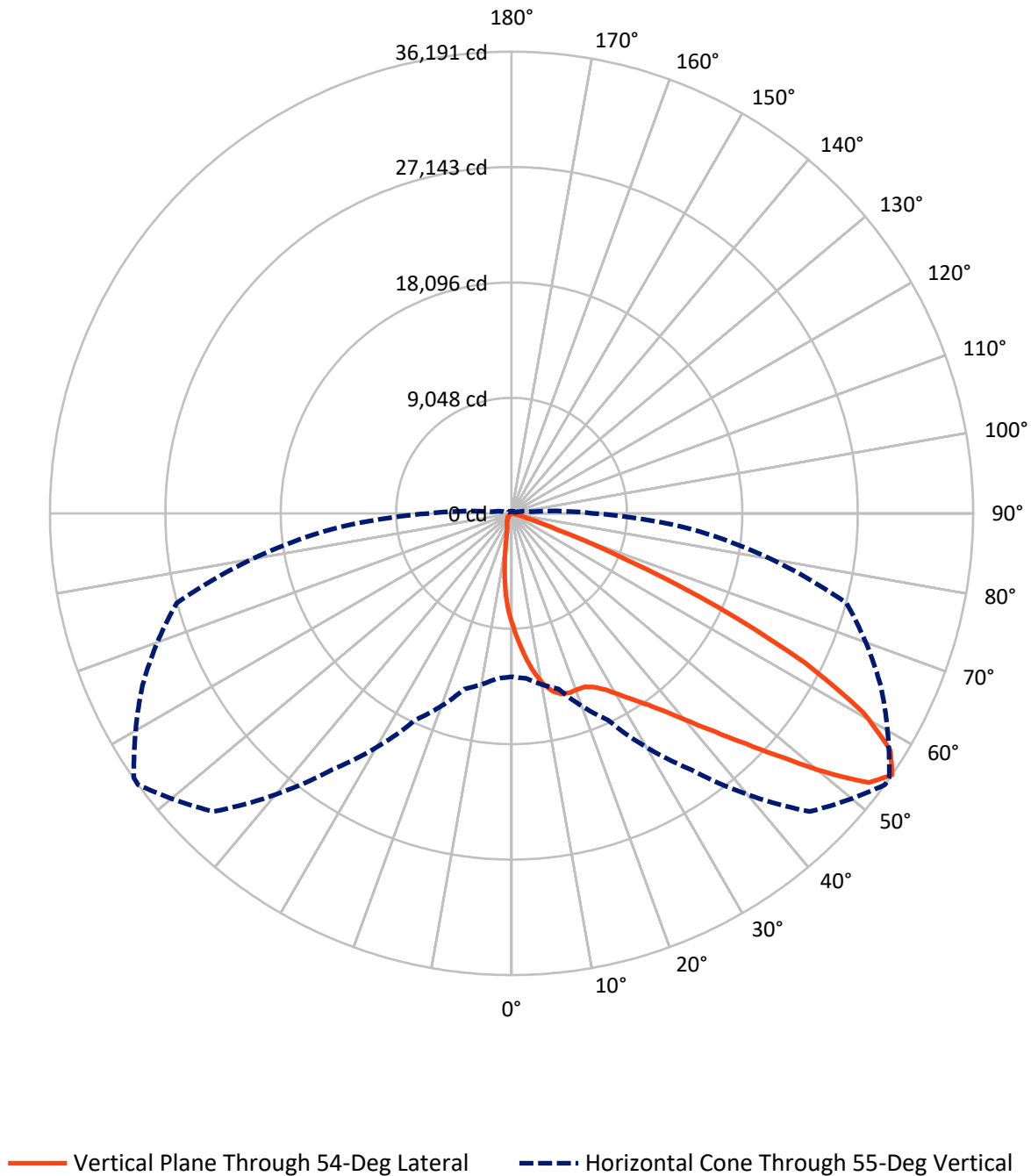
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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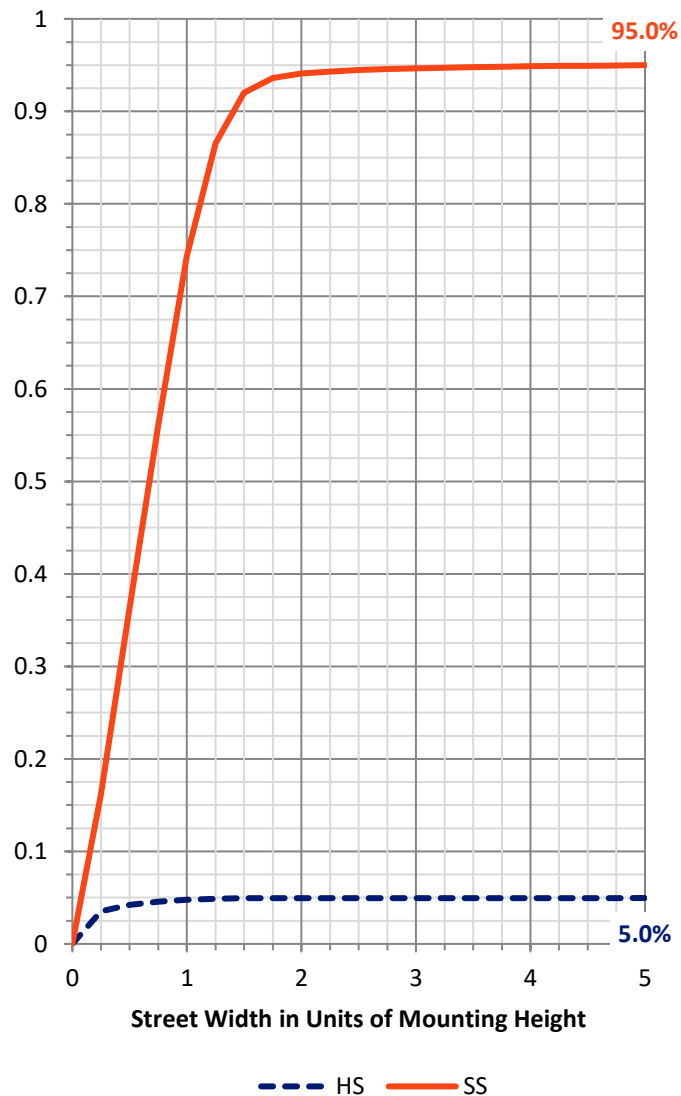
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1936.3   | 0.0    | 1936.3  |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 36872.7  | 0.0    | 36872.7 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 38809.0  | 0.0    | 38809.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 800.4   | 2.1       |
| 10°-20°   | 2195.1  | 5.7       |
| 20°-30°   | 3747.8  | 9.7       |
| 30°-40°   | 6014.6  | 15.5      |
| 40°-50°   | 9611.4  | 24.8      |
| 50°-60°   | 10298.8 | 26.5      |
| 60°-70°   | 5287.7  | 13.6      |
| 70°-80°   | 801.0   | 2.1       |
| 80°-90°   | 52.2    | 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°    | 38809.0 | 100.0     |
| 0°-180°   | 38809.0 | 100.0     |

**Coefficient of Utilization**



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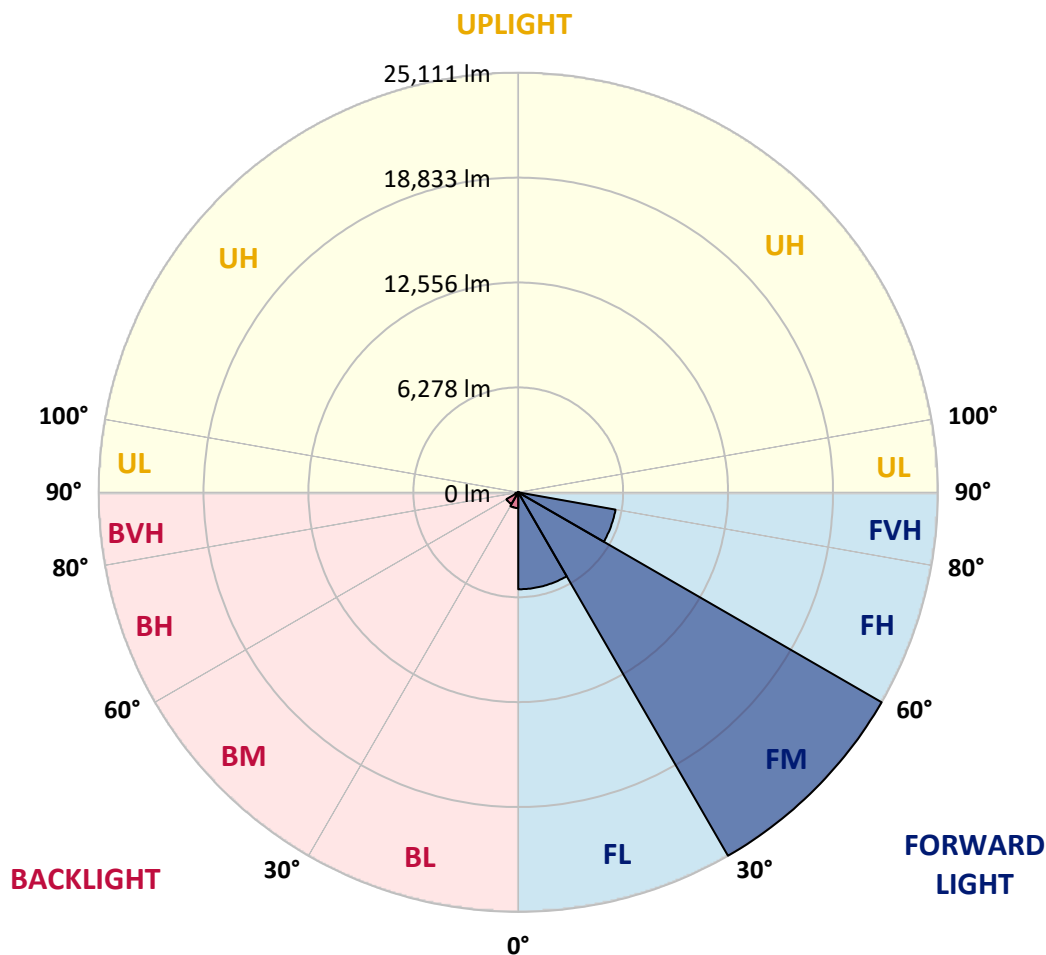
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5801.3  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 25111.1 | 64.7      |                         |      |         |
| FH   | (60°-80°)   | 5910.3  | 15.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 50.1    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 942.1   | 2.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 813.7   | 2.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 178.4   | 0.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.1     | 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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8691.7  | 8691.7  | 8691.7  | 8691.7  | 8691.7  | 8691.7  | 8691.7  | 8691.7  | 8691.7  | 8691.7  | 8691.7  |
| 2.5°  | 10907.3 | 10744.7 | 10749.8 | 10676.0 | 10406.2 | 10195.0 | 9975.5  | 9923.5  | 9581.6  | 9222.9  | 8877.7  |
| 5°    | 12792.8 | 12673.8 | 12645.3 | 12502.8 | 12127.4 | 11730.2 | 11304.5 | 11205.6 | 10536.9 | 9802.8  | 9080.5  |
| 7.5°  | 13761.5 | 13763.2 | 13739.7 | 13687.8 | 13453.1 | 13067.7 | 12548.1 | 12444.2 | 11534.1 | 10433.0 | 9291.7  |
| 10°   | 13479.9 | 13543.6 | 13674.4 | 13847.0 | 14026.3 | 13977.7 | 13587.2 | 13493.4 | 12504.5 | 11100.0 | 9526.3  |
| 12.5° | 12823.0 | 12831.3 | 12977.2 | 13260.4 | 13776.6 | 14306.2 | 14312.9 | 14281.1 | 13431.3 | 11797.3 | 9784.4  |
| 15°   | 12496.1 | 12528.0 | 12581.6 | 12764.3 | 13253.7 | 14101.7 | 14708.4 | 14753.7 | 14281.1 | 12538.0 | 10059.3 |
| 17.5° | 12710.7 | 12755.9 | 12710.7 | 12732.5 | 13015.7 | 13778.3 | 14777.2 | 14892.8 | 15023.5 | 13270.4 | 10319.0 |
| 20°   | 13292.2 | 13334.1 | 13253.7 | 13164.9 | 13220.2 | 13684.4 | 14728.6 | 14884.4 | 15605.1 | 13920.7 | 10536.9 |
| 22.5° | 14076.6 | 14093.4 | 13971.0 | 13825.2 | 13785.0 | 14002.9 | 14768.8 | 14929.7 | 16071.0 | 14509.0 | 10674.3 |
| 25°   | 14939.7 | 14954.8 | 14802.3 | 14634.7 | 14539.2 | 14628.0 | 15098.9 | 15219.6 | 16481.6 | 15070.5 | 10753.1 |
| 27.5° | 15880.0 | 15893.4 | 15702.3 | 15496.2 | 15385.5 | 15388.9 | 15643.6 | 15772.7 | 16919.1 | 15710.7 | 10816.8 |
| 30°   | 16873.8 | 16867.1 | 16691.1 | 16404.5 | 16263.8 | 16260.4 | 16428.0 | 16558.7 | 17552.6 | 16531.9 | 10904.0 |
| 32.5° | 17990.0 | 17976.6 | 17726.9 | 17371.6 | 17212.4 | 17235.8 | 17385.0 | 17460.4 | 18338.6 | 17406.8 | 11059.8 |
| 35°   | 19459.9 | 19421.3 | 19044.2 | 18603.4 | 18310.1 | 18301.8 | 18427.5 | 18487.8 | 19340.9 | 18466.0 | 11319.6 |
| 37.5° | 21367.1 | 21331.9 | 20820.8 | 20180.5 | 19768.2 | 19614.1 | 19763.2 | 19840.3 | 20770.5 | 19825.2 | 11736.9 |
| 40°   | 23247.6 | 23212.4 | 22909.0 | 22322.4 | 21687.2 | 21316.9 | 21434.2 | 21516.3 | 22555.4 | 21474.4 | 12263.2 |
| 42.5° | 24544.8 | 24575.0 | 24680.6 | 24729.2 | 24134.2 | 23356.5 | 23410.2 | 23495.6 | 24430.8 | 23237.5 | 12864.9 |
| 45°   | 24886.7 | 24952.1 | 25548.7 | 26720.2 | 26943.1 | 26336.4 | 25775.0 | 25821.9 | 26336.4 | 25000.7 | 13466.5 |
| 47.5° | 23859.3 | 23980.0 | 25131.4 | 27310.2 | 29197.3 | 29626.4 | 28563.8 | 28501.8 | 28164.9 | 26426.9 | 13893.9 |
| 50°   | 21524.7 | 21635.3 | 23126.9 | 26349.8 | 29881.1 | 32767.2 | 31905.7 | 31723.0 | 29768.8 | 27280.0 | 14044.8 |
| 52.5° | 18145.9 | 18280.0 | 19491.7 | 23326.4 | 28592.3 | 34168.3 | 35070.0 | 34917.5 | 30945.4 | 27347.0 | 14069.9 |
| 55°   | 12814.6 | 12977.2 | 14259.3 | 17877.7 | 24507.9 | 33053.8 | 36191.2 | 36146.0 | 31922.5 | 27169.4 | 14123.5 |
| 57.5° | 7201.7  | 7319.0  | 8701.7  | 11460.4 | 17949.8 | 28790.1 | 35019.7 | 35319.7 | 32512.4 | 26861.0 | 14204.0 |
| 60°   | 3197.8  | 3229.6  | 3945.3  | 5705.1  | 10508.4 | 22002.3 | 31666.1 | 32172.2 | 32006.3 | 26448.7 | 14339.7 |
| 62.5° | 1773.2  | 1746.4  | 1746.4  | 2371.5  | 4567.1  | 13620.7 | 25821.9 | 26658.2 | 29845.9 | 25961.0 | 14346.4 |
| 65°   | 1389.4  | 1364.3  | 1292.2  | 1302.2  | 1739.7  | 6045.3  | 17881.1 | 19367.7 | 25743.1 | 24531.4 | 13863.7 |
| 67.5° | 1178.2  | 1156.4  | 1084.4  | 1055.9  | 1081.0  | 1994.4  | 9824.6  | 11368.2 | 19533.6 | 20815.7 | 12008.4 |
| 70°   | 995.5   | 980.5   | 943.6   | 908.4   | 844.7   | 985.5   | 3759.2  | 4808.4  | 12036.9 | 13847.0 | 8197.2  |
| 72.5° | 801.1   | 794.4   | 807.8   | 777.7   | 700.6   | 657.0   | 1285.5  | 1557.0  | 5406.7  | 6179.4  | 3377.1  |
| 75°   | 690.5   | 687.2   | 693.9   | 663.7   | 576.5   | 457.5   | 653.6   | 714.0   | 1525.1  | 1511.7  | 683.8   |
| 77.5° | 449.2   | 454.2   | 574.9   | 561.5   | 496.1   | 305.0   | 338.5   | 365.4   | 462.6   | 346.9   | 207.8   |
| 80°   | 286.6   | 283.2   | 291.6   | 465.9   | 445.8   | 233.0   | 169.3   | 177.7   | 222.9   | 171.0   | 100.6   |
| 82.5° | 174.3   | 171.0   | 191.1   | 217.9   | 224.6   | 162.6   | 103.9   | 105.6   | 139.1   | 110.6   | 53.6    |
| 85°   | 15.1    | 20.1    | 115.6   | 107.3   | 77.1    | 50.3    | 50.3    | 53.6    | 73.7    | 65.4    | 30.2    |
| 87.5° | 0.0     | 0.0     | 20.1    | 30.2    | 16.8    | 18.4    | 18.4    | 20.1    | 28.5    | 28.5    | 15.1    |
| 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°    | 8691.7 | 8691.7 | 8691.7 | 8691.7 | 8691.7 | 8691.7 | 8691.7 | 8691.7 | 8691.7 | 8691.7 | 8691.7 |
| 2.5°  | 8698.4 | 8524.1 | 8172.1 | 7833.6 | 7547.0 | 7270.4 | 6955.3 | 6643.6 | 6497.8 | 6439.1 | 6378.8 |
| 5°    | 8713.4 | 8354.8 | 7629.1 | 6898.4 | 6140.8 | 5458.7 | 4877.1 | 4280.5 | 3982.1 | 3851.4 | 3791.1 |
| 7.5°  | 8733.6 | 8187.2 | 7014.0 | 5787.2 | 4567.1 | 3641.9 | 2834.1 | 2314.5 | 2090.0 | 2054.8 | 1967.6 |
| 10°   | 8736.9 | 7984.4 | 6300.0 | 4560.4 | 3062.0 | 2195.5 | 1689.4 | 1421.2 | 1322.4 | 1305.6 | 1277.1 |
| 12.5° | 8743.6 | 7744.7 | 5507.3 | 3377.1 | 2041.3 | 1468.2 | 1221.8 | 1133.0 | 1106.2 | 1104.5 | 1104.5 |
| 15°   | 8763.7 | 7493.3 | 4684.4 | 2433.5 | 1466.5 | 1163.1 | 1072.6 | 1037.4 | 1027.4 | 1032.4 | 1030.7 |
| 17.5° | 8763.7 | 7196.7 | 3876.6 | 1813.4 | 1184.9 | 1045.8 | 995.5  | 972.1  | 968.7  | 973.7  | 975.4  |
| 20°   | 8700.0 | 6836.3 | 3135.8 | 1411.2 | 1050.8 | 970.4  | 925.1  | 903.4  | 895.0  | 898.3  | 900.0  |
| 22.5° | 8547.5 | 6393.9 | 2532.4 | 1168.2 | 962.0  | 901.7  | 853.1  | 819.6  | 806.1  | 807.8  | 807.8  |
| 25°   | 8309.5 | 5869.3 | 1981.0 | 1010.6 | 889.9  | 827.9  | 771.0  | 732.4  | 724.0  | 722.3  | 725.7  |
| 27.5° | 8004.5 | 5289.4 | 1577.1 | 889.9  | 804.5  | 745.8  | 688.8  | 657.0  | 650.3  | 652.0  | 653.6  |
| 30°   | 7704.5 | 4687.7 | 1243.6 | 787.7  | 708.9  | 653.6  | 610.1  | 595.0  | 595.0  | 600.0  | 601.7  |
| 32.5° | 7429.6 | 4109.5 | 983.8  | 698.9  | 623.5  | 573.2  | 548.0  | 546.4  | 554.8  | 558.1  | 559.8  |
| 35°   | 7193.3 | 3574.9 | 814.5  | 630.2  | 556.4  | 512.9  | 504.5  | 511.2  | 521.2  | 527.9  | 529.6  |
| 37.5° | 7025.7 | 3097.2 | 712.3  | 573.2  | 504.5  | 469.3  | 467.6  | 481.0  | 494.4  | 509.5  | 512.9  |
| 40°   | 6955.3 | 2693.3 | 641.9  | 522.9  | 462.6  | 435.8  | 430.7  | 449.2  | 474.3  | 496.1  | 499.4  |
| 42.5° | 6896.7 | 2363.1 | 581.6  | 474.3  | 429.1  | 390.5  | 388.8  | 412.3  | 442.5  | 464.2  | 469.3  |
| 45°   | 6846.4 | 2098.3 | 526.3  | 422.3  | 385.5  | 335.2  | 340.2  | 370.4  | 393.9  | 417.3  | 422.3  |
| 47.5° | 6742.5 | 1880.5 | 465.9  | 367.0  | 318.4  | 286.6  | 296.6  | 323.5  | 341.9  | 377.1  | 382.1  |
| 50°   | 6556.5 | 1702.8 | 403.9  | 300.0  | 259.8  | 248.0  | 263.1  | 281.6  | 305.0  | 335.2  | 338.5  |
| 52.5° | 6430.8 | 1568.7 | 350.3  | 251.4  | 214.5  | 217.9  | 233.0  | 239.7  | 253.1  | 264.8  | 261.5  |
| 55°   | 6358.7 | 1495.0 | 306.7  | 217.9  | 182.7  | 192.7  | 196.1  | 187.7  | 181.0  | 169.3  | 164.2  |
| 57.5° | 6350.3 | 1427.9 | 273.2  | 189.4  | 160.9  | 165.9  | 154.2  | 125.7  | 102.2  | 88.8   | 85.5   |
| 60°   | 6336.9 | 1345.8 | 246.4  | 159.2  | 142.5  | 135.8  | 110.6  | 68.7   | 48.6   | 45.3   | 45.3   |
| 62.5° | 6191.1 | 1218.4 | 226.3  | 134.1  | 120.7  | 102.2  | 63.7   | 31.8   | 26.8   | 28.5   | 28.5   |
| 65°   | 5726.8 | 1040.8 | 206.1  | 108.9  | 95.5   | 73.7   | 31.8   | 18.4   | 10.1   | 11.7   | 11.7   |
| 67.5° | 4868.7 | 829.6  | 184.4  | 83.8   | 72.1   | 46.9   | 18.4   | 8.4    | 0.0    | 0.0    | 0.0    |
| 70°   | 3259.8 | 514.5  | 155.9  | 58.7   | 46.9   | 28.5   | 13.4   | 1.7    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1250.3 | 278.2  | 125.7  | 35.2   | 30.2   | 20.1   | 8.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 281.6  | 182.7  | 87.2   | 25.1   | 21.8   | 13.4   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 107.3  | 132.4  | 50.3   | 16.8   | 15.1   | 8.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 52.0   | 78.8   | 23.5   | 10.1   | 8.4    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 26.8   | 30.2   | 10.1   | 5.0    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 15.1   | 15.1   | 5.0    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.4    | 5.0    | 1.7    | 1.7    | 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)