

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: P193764

Luminaire Tested: **GAN-AF-06-LED-U-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-06-LED-U-SL4-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 25865 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4

Input Watts (W): 382  
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: 28.75 FT

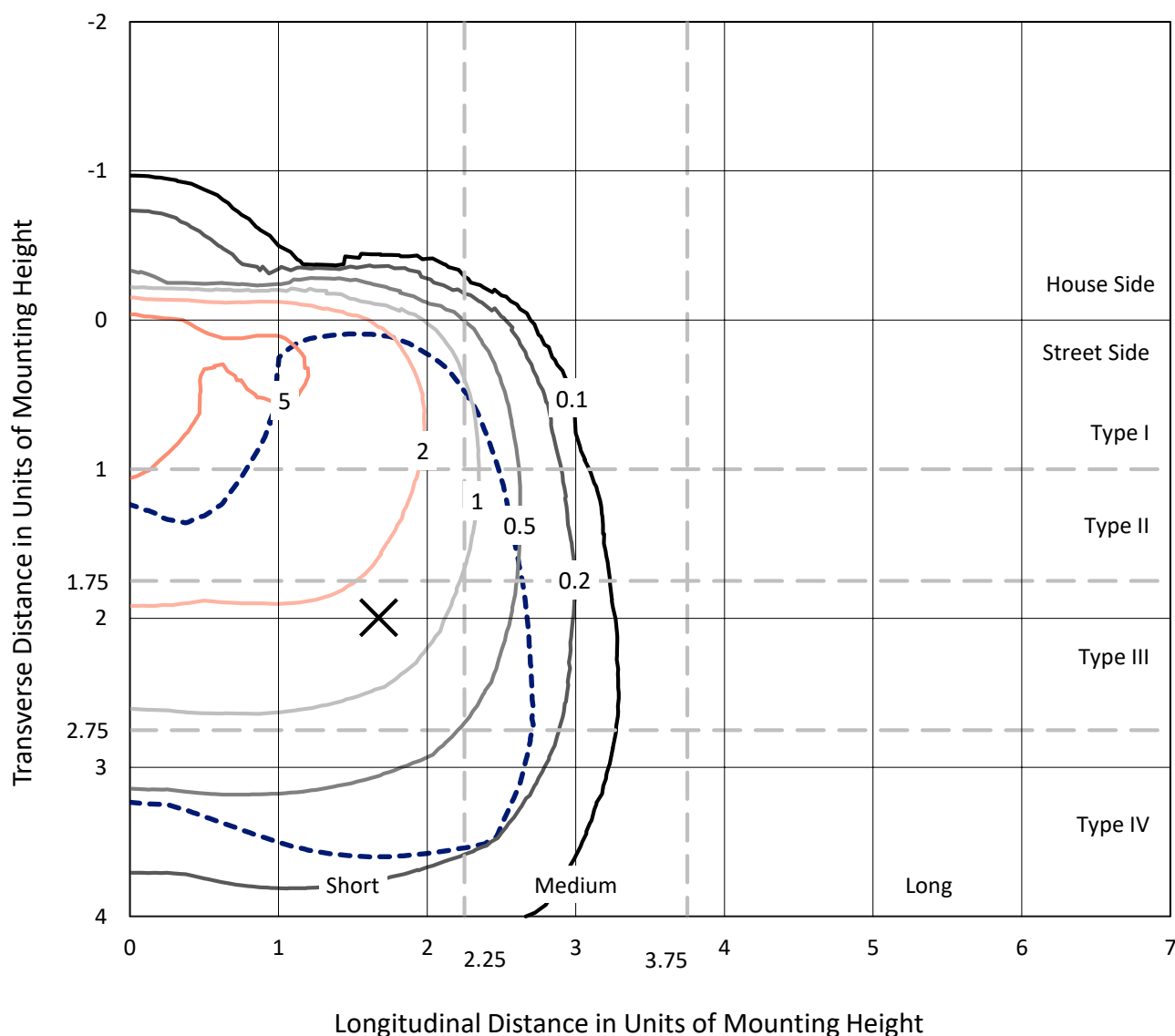


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

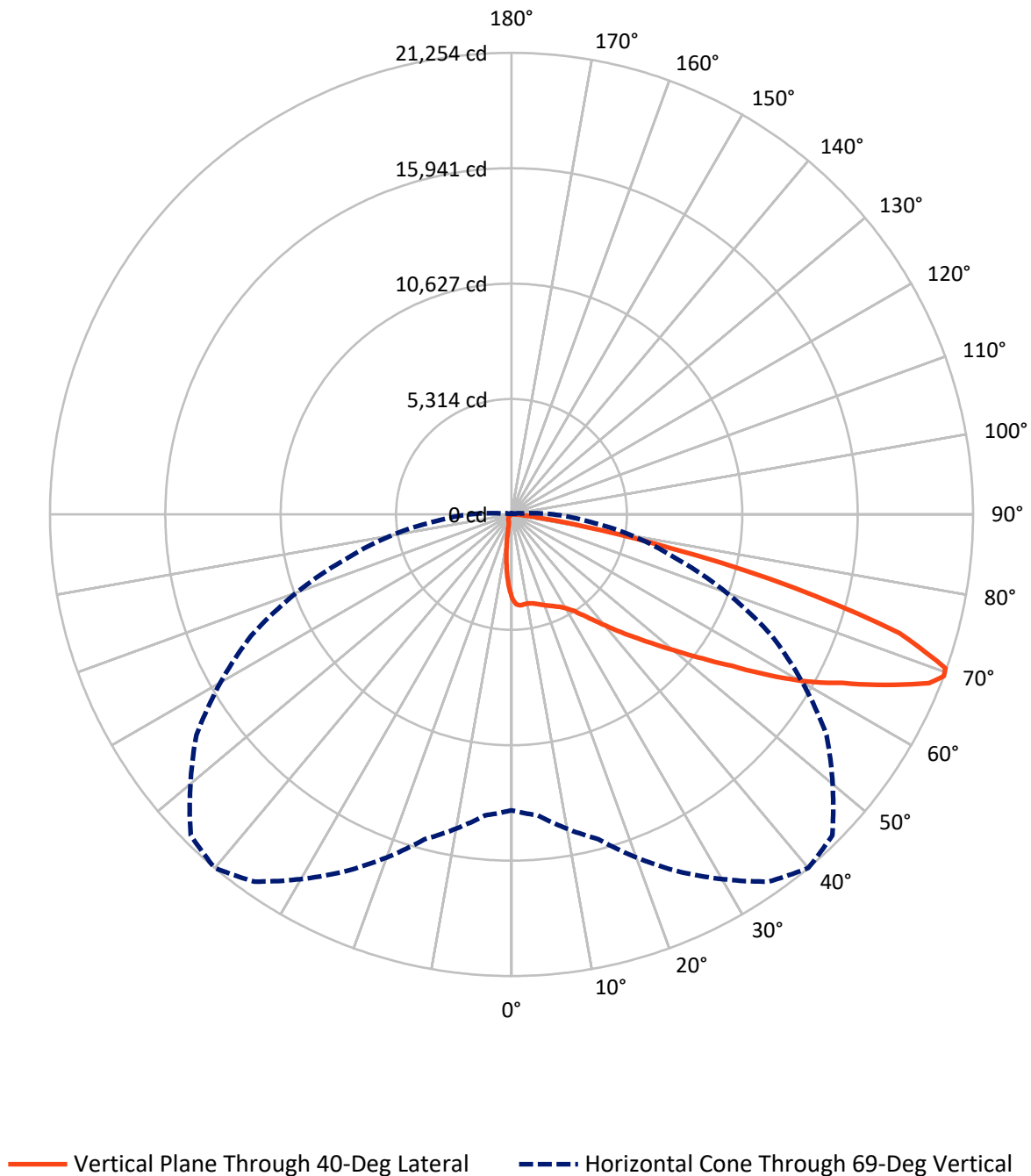


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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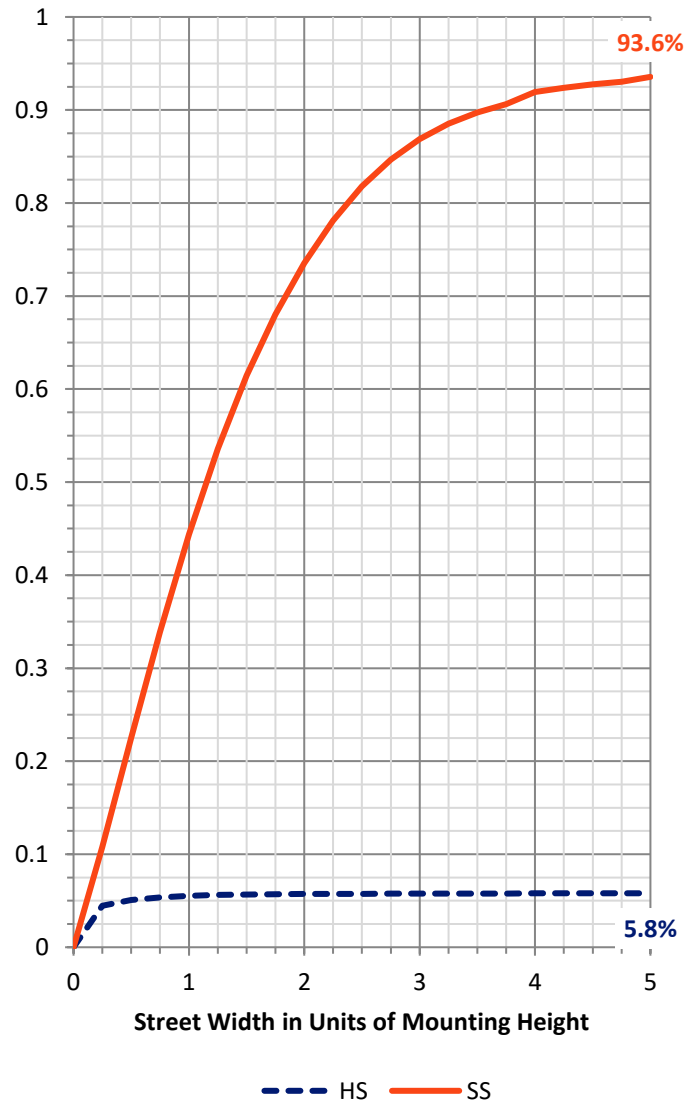
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1513.3   | 0.0    | 1513.3  |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 24351.8  | 0.0    | 24351.8 |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 25865.0  | 0.0    | 25865.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 313.3   | 1.2       |
| 10°-20°   | 770.5   | 3.0       |
| 20°-30°   | 1297.8  | 5.0       |
| 30°-40°   | 2124.6  | 8.2       |
| 40°-50°   | 3678.6  | 14.2      |
| 50°-60°   | 5794.2  | 22.4      |
| 60°-70°   | 7567.0  | 29.3      |
| 70°-80°   | 3897.3  | 15.1      |
| 80°-90°   | 421.6   | 1.6       |
| 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°    | 25865.0 | 100.0     |
| 0°-180°   | 25865.0 | 100.0     |

**Coefficient of Utilization**



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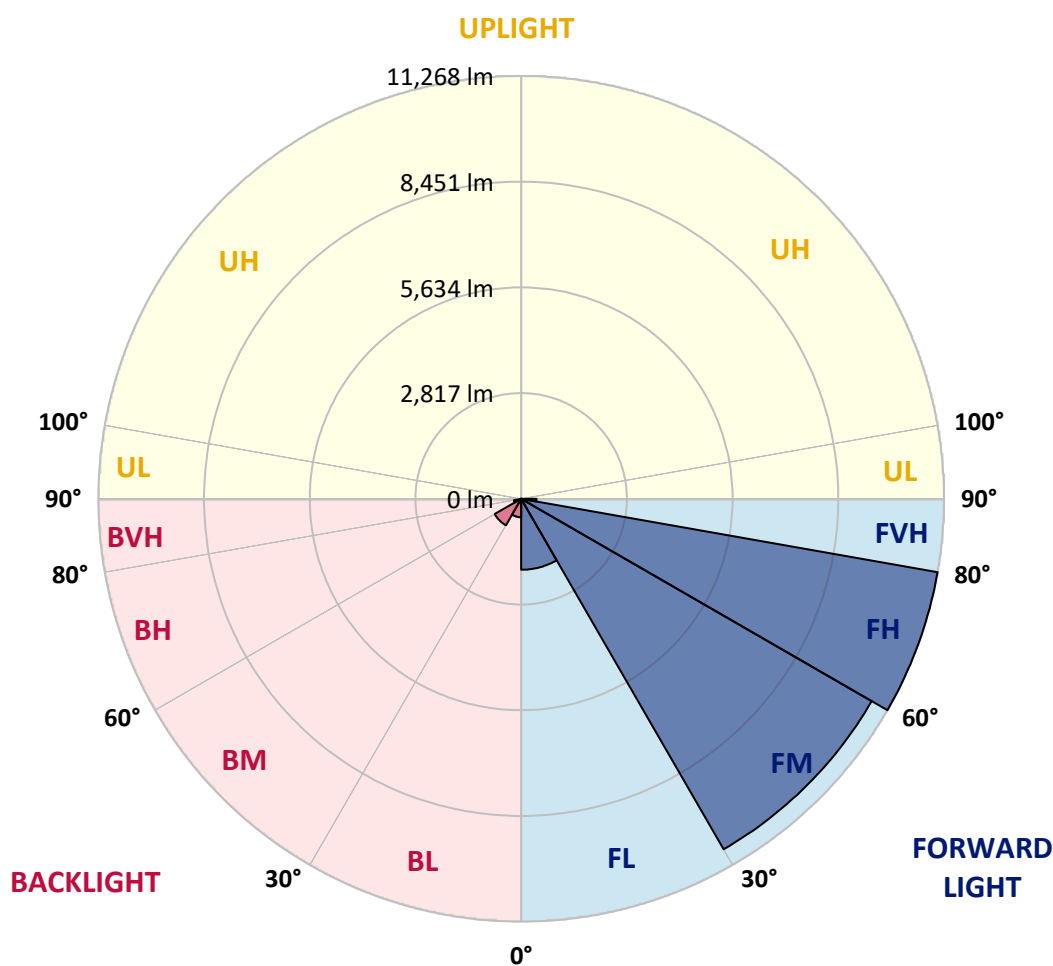
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1891.5  | 7.3       |                         |      |          |
| FM   | (30°-60°)   | 10784.1 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 11267.9 | 43.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 408.3   | 1.6       |                         |      | G3/500   |
| BL   | (0°-30°)    | 490.2   | 1.9       | B1/500                  |      |          |
| BM   | (30°-60°)   | 813.3   | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 196.5   | 0.8       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 13.2    | 0.1       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3864.4  | 3864.4  | 3864.4  | 3864.4  | 3864.4  | 3864.4  | 3864.4  | 3864.4  | 3864.4  | 3864.4  | 3864.4  |
| 2.5°  | 4243.1  | 4220.0  | 4206.2  | 4187.7  | 4164.6  | 4144.6  | 4136.9  | 4079.9  | 4026.0  | 3952.1  | 3867.4  |
| 5°    | 4321.6  | 4313.9  | 4289.3  | 4264.7  | 4236.9  | 4206.2  | 4189.2  | 4121.5  | 4044.5  | 3936.7  | 3788.9  |
| 7.5°  | 4329.3  | 4320.1  | 4289.3  | 4255.4  | 4216.9  | 4180.0  | 4150.7  | 4083.0  | 4012.2  | 3902.9  | 3722.7  |
| 10°   | 4317.0  | 4306.2  | 4283.1  | 4246.2  | 4198.5  | 4163.0  | 4133.8  | 4069.1  | 4009.1  | 3910.6  | 3710.4  |
| 12.5° | 4303.1  | 4292.4  | 4281.6  | 4263.1  | 4221.5  | 4196.9  | 4172.3  | 4110.7  | 4056.8  | 3973.7  | 3755.1  |
| 15°   | 4317.0  | 4310.8  | 4323.2  | 4315.5  | 4292.4  | 4270.8  | 4246.2  | 4190.8  | 4141.5  | 4072.2  | 3836.7  |
| 17.5° | 4375.5  | 4375.5  | 4414.0  | 4418.6  | 4397.1  | 4366.3  | 4330.9  | 4275.4  | 4233.9  | 4175.4  | 3933.6  |
| 20°   | 4512.5  | 4507.9  | 4557.2  | 4566.4  | 4514.1  | 4466.3  | 4414.0  | 4346.3  | 4313.9  | 4277.0  | 4029.1  |
| 22.5° | 4748.1  | 4726.5  | 4755.8  | 4746.5  | 4643.4  | 4569.5  | 4504.8  | 4421.7  | 4404.8  | 4387.8  | 4135.3  |
| 25°   | 5054.5  | 5042.1  | 5062.2  | 4971.3  | 4789.7  | 4689.6  | 4612.6  | 4518.7  | 4518.7  | 4535.6  | 4255.4  |
| 27.5° | 5499.4  | 5453.2  | 5385.5  | 5225.4  | 4952.9  | 4825.1  | 4741.9  | 4641.9  | 4668.0  | 4731.2  | 4414.0  |
| 30°   | 5955.1  | 5904.3  | 5748.8  | 5502.5  | 5151.5  | 5017.5  | 4920.5  | 4815.8  | 4877.4  | 4992.9  | 4626.5  |
| 32.5° | 6404.7  | 6347.7  | 6127.6  | 5816.6  | 5436.3  | 5302.3  | 5208.4  | 5093.0  | 5196.1  | 5390.1  | 4937.5  |
| 35°   | 6840.4  | 6789.6  | 6535.5  | 6169.1  | 5815.0  | 5704.2  | 5618.0  | 5517.9  | 5650.3  | 5921.3  | 5376.2  |
| 37.5° | 7330.0  | 7274.5  | 6965.1  | 6567.9  | 6275.4  | 6195.3  | 6132.2  | 6032.1  | 6263.0  | 6660.3  | 5987.5  |
| 40°   | 7932.0  | 7838.0  | 7420.8  | 7025.1  | 6808.1  | 6769.6  | 6726.5  | 6712.6  | 7071.3  | 7621.0  | 6801.9  |
| 42.5° | 8621.7  | 8467.7  | 7898.1  | 7507.0  | 7393.1  | 7420.8  | 7410.0  | 7471.6  | 8082.8  | 8815.7  | 7793.4  |
| 45°   | 9311.4  | 9112.8  | 8429.2  | 8021.2  | 8036.6  | 8133.6  | 8193.7  | 8440.0  | 9349.9  | 10185.9 | 8860.3  |
| 47.5° | 9896.5  | 9700.9  | 8938.8  | 8577.0  | 8761.8  | 8952.7  | 9115.9  | 9582.4  | 10652.4 | 11534.6 | 9690.2  |
| 50°   | 10396.8 | 10212.1 | 9479.2  | 9188.3  | 9603.9  | 9911.9  | 10176.7 | 10867.9 | 12053.4 | 12561.5 | 10272.1 |
| 52.5° | 10806.4 | 10683.2 | 10039.6 | 9888.8  | 10566.2 | 11017.3 | 11405.3 | 12233.6 | 13294.3 | 13395.9 | 10724.8 |
| 55°   | 11205.1 | 11117.4 | 10641.6 | 10721.7 | 11696.2 | 12310.5 | 12801.7 | 13682.3 | 14362.8 | 14091.8 | 11158.9 |
| 57.5° | 11663.9 | 11583.9 | 11328.3 | 11777.8 | 13181.9 | 13954.8 | 14490.6 | 14966.3 | 15303.5 | 14803.1 | 11568.5 |
| 60°   | 12131.9 | 12085.8 | 12091.9 | 12951.0 | 14887.8 | 15629.9 | 15925.5 | 16048.7 | 16227.2 | 15472.9 | 11591.6 |
| 62.5° | 12578.4 | 12666.2 | 12964.9 | 14256.6 | 16521.3 | 17091.0 | 17240.3 | 17361.9 | 17152.5 | 15579.1 | 10709.4 |
| 65°   | 13334.4 | 13477.5 | 14190.4 | 16004.0 | 18318.0 | 18927.7 | 19081.6 | 18664.4 | 17298.8 | 14205.8 | 8711.0  |
| 67.5° | 13703.9 | 13965.6 | 15237.3 | 17632.9 | 20060.8 | 20738.2 | 20681.3 | 18749.1 | 15523.7 | 10832.5 | 5590.2  |
| 69°   | 13626.9 | 13905.6 | 15479.0 | 18131.7 | 20639.7 | 21254.0 | 20892.2 | 17713.0 | 13225.1 | 7847.3  | 3431.7  |
| 70°   | 13322.0 | 13603.8 | 15354.3 | 18113.2 | 20713.6 | 21200.1 | 20501.1 | 16433.6 | 11182.0 | 5738.0  | 2146.2  |
| 72.5° | 11125.1 | 11368.3 | 13631.5 | 16372.0 | 19081.6 | 18686.0 | 17151.0 | 11385.2 | 5448.6  | 1562.7  | 483.4   |
| 75°   | 6848.1  | 6983.6  | 9781.0  | 12333.6 | 14412.1 | 13395.9 | 11426.8 | 5664.1  | 1624.3  | 441.9   | 267.9   |
| 77.5° | 3618.0  | 3679.6  | 5354.7  | 7269.9  | 9135.9  | 7559.4  | 5856.6  | 2209.3  | 748.2   | 277.1   | 194.0   |
| 80°   | 2138.5  | 2184.7  | 2883.6  | 3324.0  | 3953.7  | 3302.4  | 2341.7  | 1356.4  | 535.8   | 174.0   | 172.4   |
| 82.5° | 1224.0  | 1253.2  | 2090.8  | 1847.5  | 1558.1  | 1330.2  | 1165.5  | 1285.6  | 321.8   | 117.0   | 178.6   |
| 85°   | 449.6   | 455.7   | 1176.2  | 1405.6  | 926.8   | 551.2   | 578.9   | 1065.4  | 86.2    | 73.9    | 140.1   |
| 87.5° | 209.4   | 204.8   | 605.1   | 860.6   | 541.9   | 349.5   | 451.1   | 234.0   | 33.9    | 47.7    | 38.5    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3864.4 | 3864.4 | 3864.4 | 3864.4 | 3864.4 | 3864.4 | 3864.4 | 3864.4 | 3864.4 | 3864.4 | 3864.4 |
| 2.5°  | 3818.2 | 3761.2 | 3658.1 | 3551.8 | 3444.1 | 3360.9 | 3279.3 | 3214.7 | 3193.1 | 3153.1 | 3156.2 |
| 5°    | 3701.2 | 3596.5 | 3380.9 | 3162.3 | 2934.5 | 2746.6 | 2569.6 | 2426.4 | 2357.1 | 2286.3 | 2286.3 |
| 7.5°  | 3599.6 | 3447.1 | 3110.0 | 2754.3 | 2386.4 | 2076.9 | 1798.2 | 1588.9 | 1473.4 | 1381.0 | 1379.5 |
| 10°   | 3561.1 | 3354.8 | 2883.6 | 2374.0 | 1861.4 | 1439.5 | 1108.5 | 896.0  | 786.7  | 715.9  | 712.8  |
| 12.5° | 3578.0 | 3322.4 | 2709.7 | 2023.0 | 1379.5 | 925.3  | 642.0  | 505.0  | 458.8  | 437.2  | 437.2  |
| 15°   | 3627.3 | 3313.2 | 2535.7 | 1679.7 | 974.6  | 578.9  | 426.5  | 389.5  | 386.4  | 386.4  | 386.4  |
| 17.5° | 3687.3 | 3316.3 | 2357.1 | 1345.6 | 663.6  | 414.1  | 368.0  | 363.3  | 366.4  | 366.4  | 366.4  |
| 20°   | 3748.9 | 3317.8 | 2164.7 | 1036.1 | 468.0  | 360.3  | 346.4  | 344.9  | 347.9  | 347.9  | 349.5  |
| 22.5° | 3824.3 | 3325.5 | 1972.2 | 774.4  | 386.4  | 340.2  | 329.5  | 329.5  | 331.0  | 331.0  | 329.5  |
| 25°   | 3910.6 | 3340.9 | 1772.1 | 574.3  | 352.6  | 326.4  | 317.2  | 315.6  | 317.2  | 315.6  | 314.1  |
| 27.5° | 4018.3 | 3362.5 | 1548.8 | 449.6  | 337.2  | 312.5  | 304.8  | 304.8  | 303.3  | 301.8  | 300.2  |
| 30°   | 4153.8 | 3387.1 | 1297.9 | 381.8  | 321.8  | 300.2  | 292.5  | 291.0  | 289.4  | 286.4  | 286.4  |
| 32.5° | 4360.1 | 3441.0 | 1050.0 | 346.4  | 304.8  | 283.3  | 277.1  | 277.1  | 274.0  | 271.0  | 269.4  |
| 35°   | 4677.3 | 3547.2 | 828.3  | 324.9  | 286.4  | 264.8  | 257.1  | 257.1  | 254.0  | 252.5  | 251.0  |
| 37.5° | 5116.0 | 3708.9 | 643.5  | 304.8  | 267.9  | 244.8  | 237.1  | 235.6  | 232.5  | 229.4  | 227.9  |
| 40°   | 5699.6 | 3909.0 | 506.5  | 286.4  | 249.4  | 224.8  | 218.6  | 215.5  | 209.4  | 204.8  | 204.8  |
| 42.5° | 6432.4 | 4136.9 | 411.1  | 266.3  | 227.9  | 206.3  | 201.7  | 197.1  | 186.3  | 181.7  | 180.1  |
| 45°   | 7199.1 | 4341.6 | 347.9  | 243.3  | 206.3  | 187.8  | 184.8  | 177.1  | 163.2  | 158.6  | 158.6  |
| 47.5° | 7751.8 | 4389.4 | 306.4  | 221.7  | 186.3  | 167.8  | 166.3  | 152.4  | 140.1  | 137.0  | 135.5  |
| 50°   | 8096.7 | 4295.4 | 272.5  | 200.1  | 167.8  | 149.3  | 144.7  | 127.8  | 120.1  | 117.0  | 115.5  |
| 52.5° | 8329.2 | 4127.6 | 244.8  | 181.7  | 150.9  | 132.4  | 121.6  | 109.3  | 103.2  | 100.1  | 100.1  |
| 55°   | 8515.5 | 3890.5 | 217.1  | 164.7  | 137.0  | 118.5  | 103.2  | 93.9   | 87.8   | 84.7   | 84.7   |
| 57.5° | 8567.8 | 3568.8 | 189.4  | 150.9  | 123.2  | 104.7  | 87.8   | 81.6   | 73.9   | 72.4   | 72.4   |
| 60°   | 8187.5 | 2988.3 | 167.8  | 133.9  | 110.9  | 90.8   | 77.0   | 69.3   | 61.6   | 60.0   | 58.5   |
| 62.5° | 7185.3 | 2312.5 | 147.8  | 118.5  | 97.0   | 78.5   | 66.2   | 57.0   | 50.8   | 50.8   | 50.8   |
| 65°   | 5480.9 | 1550.4 | 129.3  | 103.2  | 84.7   | 66.2   | 57.0   | 46.2   | 43.1   | 43.1   | 44.6   |
| 67.5° | 3280.9 | 843.7  | 110.9  | 87.8   | 72.4   | 55.4   | 47.7   | 40.0   | 38.5   | 40.0   | 40.0   |
| 69°   | 1922.9 | 495.7  | 100.1  | 78.5   | 63.1   | 49.3   | 41.6   | 35.4   | 38.5   | 40.0   | 40.0   |
| 70°   | 1187.0 | 334.1  | 92.4   | 70.8   | 57.0   | 44.6   | 38.5   | 33.9   | 37.0   | 38.5   | 38.5   |
| 72.5° | 331.0  | 172.4  | 73.9   | 55.4   | 46.2   | 37.0   | 30.8   | 30.8   | 35.4   | 37.0   | 37.0   |
| 75°   | 215.5  | 127.8  | 57.0   | 41.6   | 35.4   | 29.3   | 26.2   | 29.3   | 33.9   | 35.4   | 35.4   |
| 77.5° | 178.6  | 104.7  | 46.2   | 33.9   | 29.3   | 27.7   | 24.6   | 26.2   | 30.8   | 32.3   | 32.3   |
| 80°   | 163.2  | 73.9   | 37.0   | 30.8   | 26.2   | 24.6   | 23.1   | 21.6   | 27.7   | 29.3   | 29.3   |
| 82.5° | 155.5  | 58.5   | 32.3   | 27.7   | 24.6   | 21.6   | 20.0   | 21.6   | 24.6   | 26.2   | 27.7   |
| 85°   | 97.0   | 38.5   | 29.3   | 26.2   | 21.6   | 20.0   | 20.0   | 20.0   | 23.1   | 24.6   | 24.6   |
| 87.5° | 35.4   | 30.8   | 26.2   | 21.6   | 18.5   | 18.5   | 18.5   | 18.5   | 20.0   | 23.1   | 23.1   |
| 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)