

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: P192944

Luminaire Tested: **GAN-AF-06-LED-U-SL4-7030-800-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P192944  
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-SL4-7030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA 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: 22578.4 lumens  
Efficiency: N/A  
Efficacy: 90.7 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): 249  
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

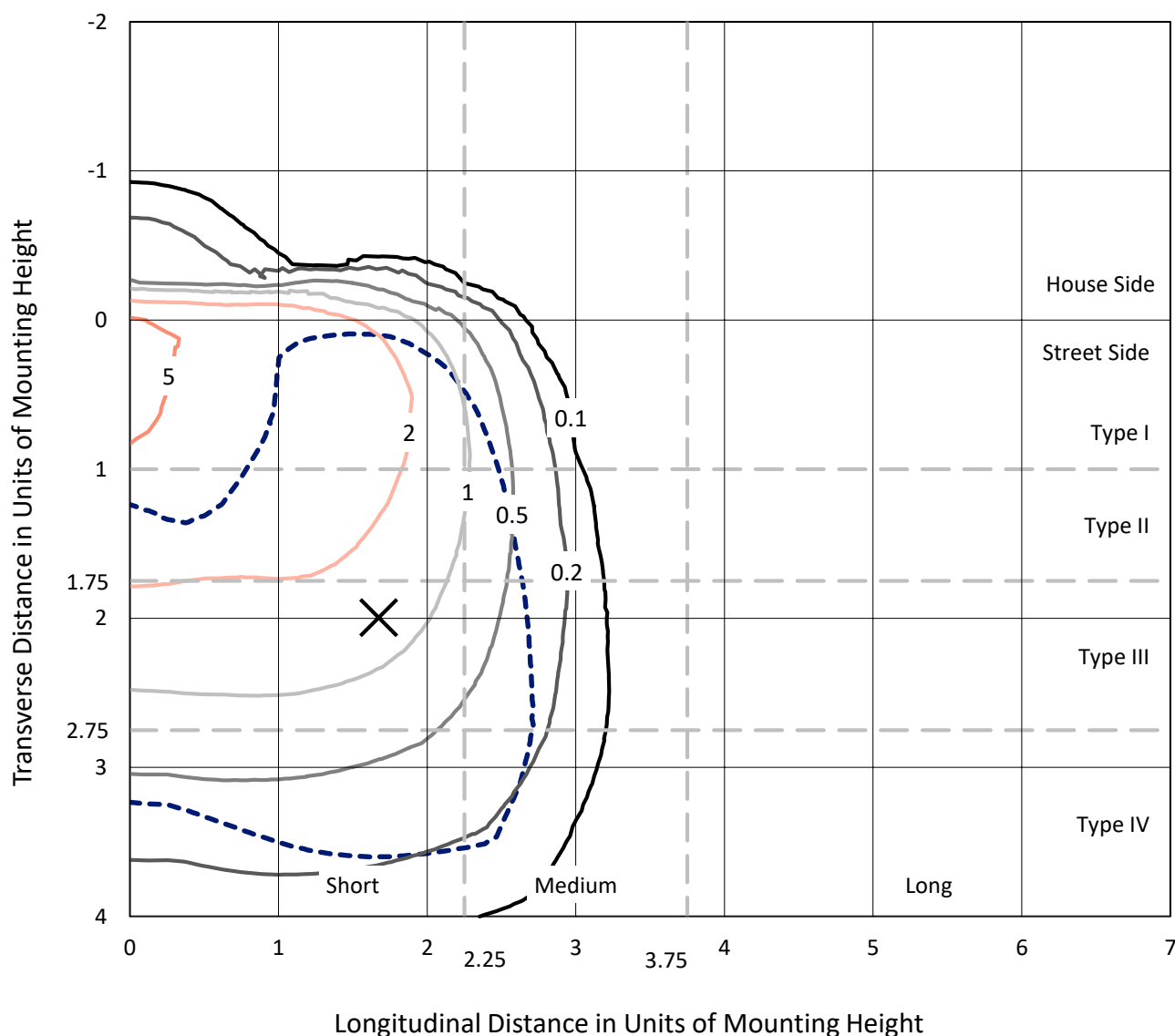


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

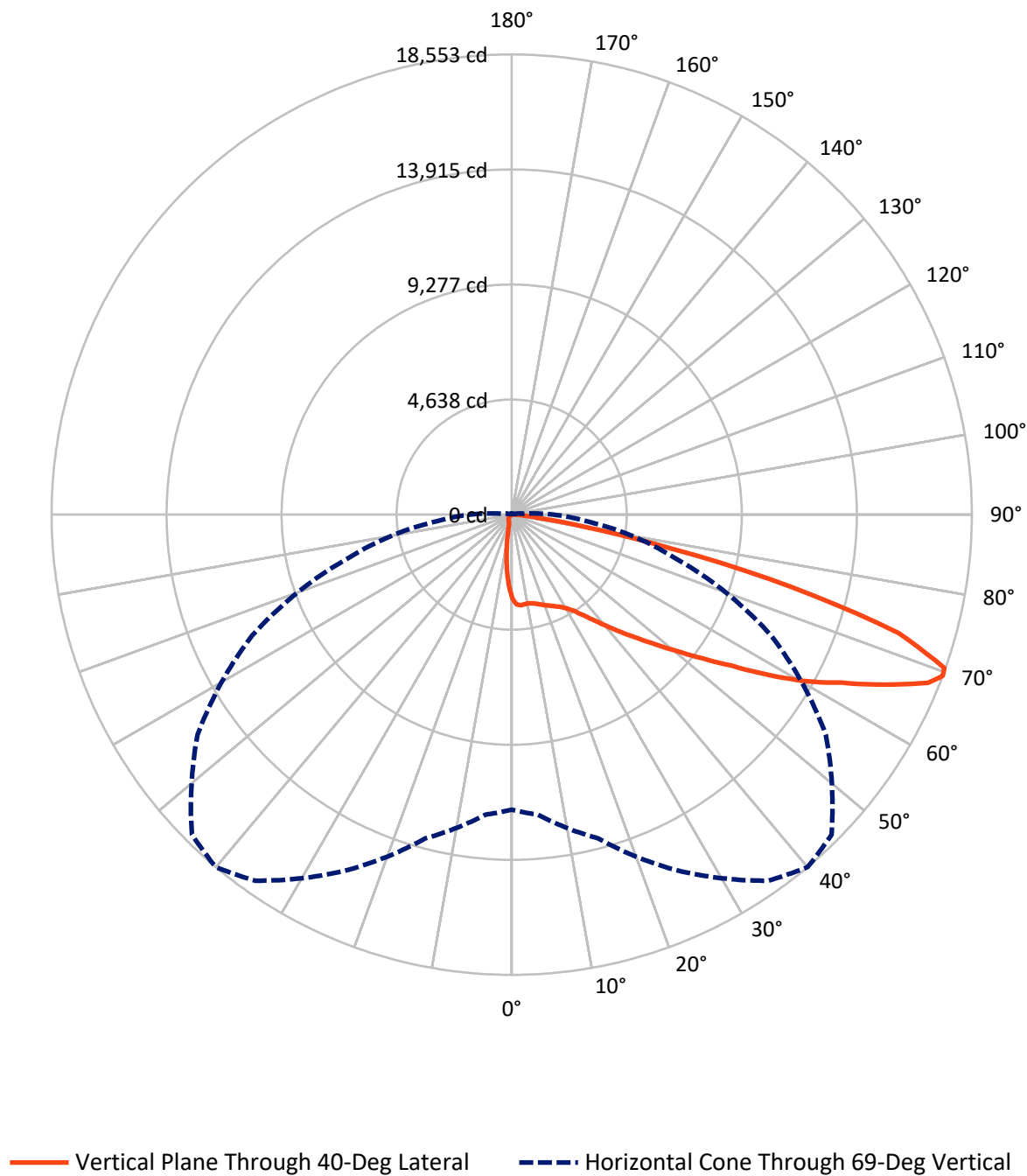


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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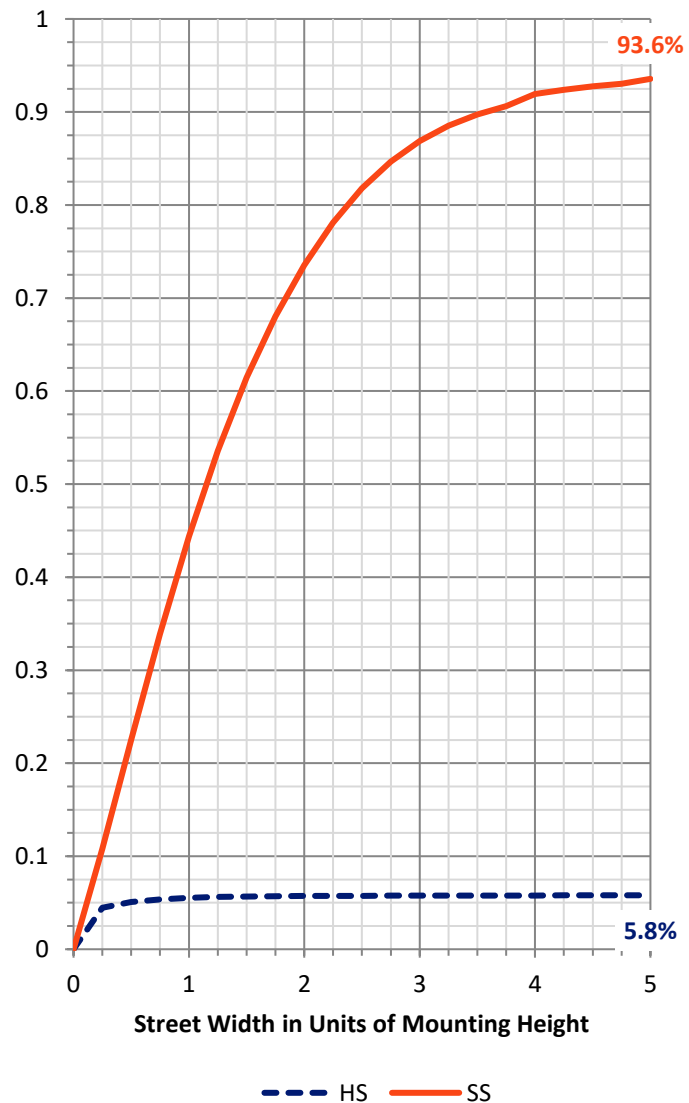
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1321.0   | 0.0    | 1321.0  |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 21257.5  | 0.0    | 21257.5 |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 22578.4  | 0.0    | 22578.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.5   | 1.2       |
| 10°-20°   | 672.6   | 3.0       |
| 20°-30°   | 1132.9  | 5.0       |
| 30°-40°   | 1854.6  | 8.2       |
| 40°-50°   | 3211.2  | 14.2      |
| 50°-60°   | 5058.0  | 22.4      |
| 60°-70°   | 6605.5  | 29.3      |
| 70°-80°   | 3402.1  | 15.1      |
| 80°-90°   | 368.0   | 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°    | 22578.4 | 100.0     |
| 0°-180°   | 22578.4 | 100.0     |

**Coefficient of Utilization**



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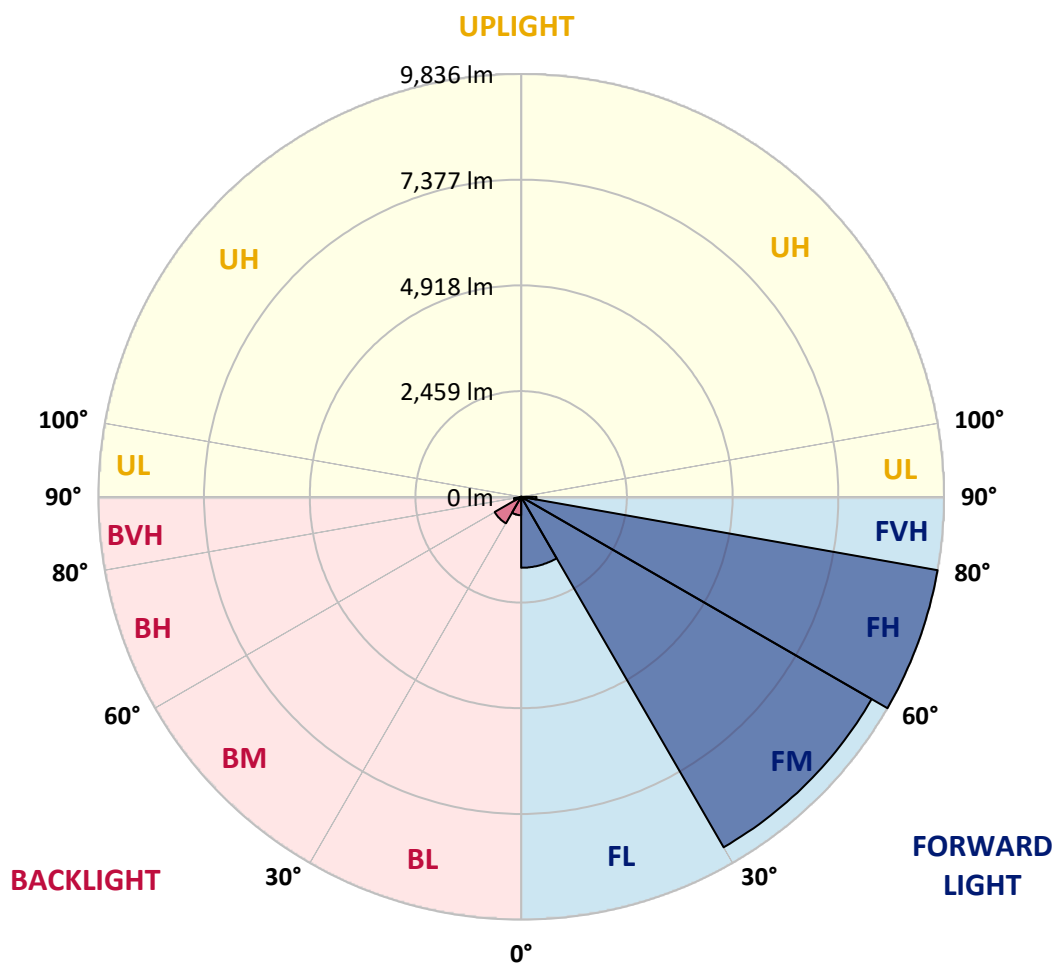
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1651.1 | 7.3       |                         |      |          |
| FM   | (30°-60°)   | 9413.8 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 9836.1 | 43.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 356.5  | 1.6       |                         |      | G3/500   |
| BL   | (0°-30°)    | 427.9  | 1.9       | B1/500                  |      |          |
| BM   | (30°-60°)   | 710.0  | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 171.5  | 0.8       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 11.6   | 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°    | 3373.4  | 3373.4  | 3373.4  | 3373.4  | 3373.4  | 3373.4  | 3373.4  | 3373.4  | 3373.4  | 3373.4  | 3373.4  |
| 2.5°  | 3704.0  | 3683.7  | 3671.6  | 3655.6  | 3635.4  | 3617.9  | 3611.2  | 3561.6  | 3514.5  | 3450.0  | 3376.0  |
| 5°    | 3772.5  | 3765.7  | 3744.4  | 3722.8  | 3698.5  | 3671.6  | 3656.9  | 3597.8  | 3530.6  | 3436.5  | 3307.5  |
| 7.5°  | 3779.2  | 3771.2  | 3744.4  | 3714.7  | 3681.1  | 3648.8  | 3623.2  | 3564.1  | 3502.3  | 3406.9  | 3249.7  |
| 10°   | 3768.5  | 3759.1  | 3738.9  | 3706.6  | 3665.0  | 3634.1  | 3608.5  | 3552.1  | 3499.7  | 3413.7  | 3239.0  |
| 12.5° | 3756.4  | 3746.9  | 3737.5  | 3721.4  | 3685.1  | 3663.7  | 3642.1  | 3588.4  | 3541.3  | 3468.8  | 3277.9  |
| 15°   | 3768.5  | 3763.1  | 3773.9  | 3767.2  | 3746.9  | 3728.2  | 3706.6  | 3658.2  | 3615.3  | 3554.7  | 3349.2  |
| 17.5° | 3819.4  | 3819.4  | 3853.1  | 3857.2  | 3838.4  | 3811.5  | 3780.6  | 3732.2  | 3695.9  | 3644.8  | 3433.8  |
| 20°   | 3939.2  | 3935.1  | 3978.1  | 3986.3  | 3940.4  | 3898.8  | 3853.1  | 3794.0  | 3765.7  | 3733.5  | 3517.2  |
| 22.5° | 4144.8  | 4125.9  | 4151.6  | 4143.4  | 4053.4  | 3988.8  | 3932.5  | 3859.8  | 3845.1  | 3830.3  | 3609.8  |
| 25°   | 4412.2  | 4401.5  | 4418.9  | 4339.7  | 4181.1  | 4093.7  | 4026.5  | 3944.5  | 3944.5  | 3959.3  | 3714.7  |
| 27.5° | 4800.7  | 4760.3  | 4701.2  | 4561.3  | 4323.5  | 4212.0  | 4139.4  | 4052.0  | 4074.9  | 4130.0  | 3853.1  |
| 30°   | 5198.4  | 5154.1  | 5018.4  | 4803.2  | 4496.9  | 4379.9  | 4295.3  | 4203.9  | 4257.7  | 4358.5  | 4038.6  |
| 32.5° | 5590.9  | 5541.1  | 5348.9  | 5077.5  | 4745.5  | 4628.6  | 4546.6  | 4445.8  | 4535.9  | 4705.1  | 4310.1  |
| 35°   | 5971.2  | 5926.9  | 5705.1  | 5385.3  | 5076.0  | 4979.4  | 4904.1  | 4816.7  | 4932.3  | 5168.8  | 4693.1  |
| 37.5° | 6398.6  | 6350.1  | 6080.1  | 5733.3  | 5477.9  | 5408.2  | 5352.9  | 5265.6  | 5467.3  | 5814.0  | 5226.6  |
| 40°   | 6924.1  | 6842.1  | 6477.9  | 6132.5  | 5942.9  | 5909.4  | 5871.7  | 5859.7  | 6172.8  | 6652.6  | 5937.5  |
| 42.5° | 7526.3  | 7391.7  | 6894.5  | 6553.2  | 6453.7  | 6477.9  | 6468.4  | 6522.2  | 7055.8  | 7695.4  | 6803.1  |
| 45°   | 8128.3  | 7954.8  | 7358.2  | 7002.0  | 7015.4  | 7100.1  | 7152.5  | 7367.6  | 8161.8  | 8891.6  | 7734.5  |
| 47.5° | 8638.9  | 8468.2  | 7803.0  | 7487.2  | 7648.4  | 7815.1  | 7957.6  | 8364.8  | 9298.8  | 10068.9 | 8458.9  |
| 50°   | 9075.7  | 8914.5  | 8274.8  | 8020.7  | 8383.6  | 8652.4  | 8883.6  | 9487.0  | 10521.8 | 10965.4 | 8966.9  |
| 52.5° | 9433.2  | 9325.8  | 8763.9  | 8632.2  | 9223.5  | 9617.3  | 9956.0  | 10679.1 | 11605.1 | 11693.8 | 9362.0  |
| 55°   | 9781.3  | 9704.7  | 9289.4  | 9359.3  | 10210.1 | 10746.3 | 11175.0 | 11943.7 | 12537.8 | 12301.3 | 9741.0  |
| 57.5° | 10181.9 | 10112.0 | 9888.8  | 10281.3 | 11506.9 | 12181.7 | 12649.3 | 13064.5 | 13358.9 | 12922.2 | 10098.5 |
| 60°   | 10590.4 | 10550.1 | 10555.4 | 11305.4 | 12996.1 | 13643.9 | 13901.9 | 14009.4 | 14165.4 | 13506.7 | 10118.6 |
| 62.5° | 10980.1 | 11056.7 | 11317.5 | 12445.0 | 14422.0 | 14919.3 | 15049.6 | 15155.8 | 14973.0 | 13599.5 | 9348.6  |
| 65°   | 11640.1 | 11765.0 | 12387.3 | 13970.4 | 15990.4 | 16522.6 | 16657.0 | 16292.7 | 15100.7 | 12400.7 | 7604.1  |
| 67.5° | 11962.6 | 12191.0 | 13301.1 | 15392.3 | 17511.7 | 18103.0 | 18053.4 | 16366.7 | 13551.1 | 9456.1  | 4879.9  |
| 69°   | 11895.4 | 12138.6 | 13512.1 | 15827.8 | 18017.1 | 18553.4 | 18237.5 | 15462.3 | 11544.6 | 6850.1  | 2995.7  |
| 70°   | 11629.2 | 11875.2 | 13403.3 | 15811.7 | 18081.7 | 18506.4 | 17896.1 | 14345.4 | 9761.1  | 5008.9  | 1873.5  |
| 72.5° | 9711.4  | 9923.8  | 11899.4 | 14291.6 | 16657.0 | 16311.7 | 14971.7 | 9938.6  | 4756.3  | 1364.1  | 422.0   |
| 75°   | 5977.9  | 6096.2  | 8538.2  | 10766.4 | 12580.7 | 11693.8 | 9974.9  | 4944.4  | 1417.8  | 385.6   | 233.9   |
| 77.5° | 3158.2  | 3212.0  | 4674.3  | 6346.3  | 7975.1  | 6598.8  | 5112.5  | 1928.5  | 653.2   | 241.9   | 169.4   |
| 80°   | 1866.8  | 1907.1  | 2517.3  | 2901.6  | 3451.3  | 2882.8  | 2044.1  | 1184.1  | 467.7   | 151.9   | 150.6   |
| 82.5° | 1068.4  | 1094.0  | 1825.0  | 1612.7  | 1360.1  | 1161.2  | 1017.4  | 1122.2  | 280.9   | 102.1   | 155.9   |
| 85°   | 392.5   | 397.8   | 1026.8  | 1227.0  | 809.1   | 481.2   | 505.4   | 930.1   | 75.3    | 64.5    | 122.3   |
| 87.5° | 182.8   | 178.7   | 528.2   | 751.2   | 473.1   | 305.1   | 393.8   | 204.4   | 29.6    | 41.6    | 33.7    |
| 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°    | 3373.4 | 3373.4 | 3373.4 | 3373.4 | 3373.4 | 3373.4 | 3373.4 | 3373.4 | 3373.4 | 3373.4 | 3373.4 |
| 2.5°  | 3333.1 | 3283.2 | 3193.2 | 3100.6 | 3006.5 | 2933.8 | 2862.6 | 2806.3 | 2787.3 | 2752.5 | 2755.1 |
| 5°    | 3230.9 | 3139.4 | 2951.3 | 2760.4 | 2561.6 | 2397.5 | 2243.1 | 2118.1 | 2057.6 | 1995.7 | 1995.7 |
| 7.5°  | 3142.2 | 3009.1 | 2714.8 | 2404.4 | 2083.1 | 1813.0 | 1569.7 | 1386.9 | 1286.2 | 1205.5 | 1204.1 |
| 10°   | 3108.5 | 2928.4 | 2517.3 | 2072.4 | 1624.8 | 1256.6 | 967.6  | 782.2  | 686.8  | 625.0  | 622.2  |
| 12.5° | 3123.4 | 2900.3 | 2365.4 | 1765.9 | 1204.1 | 807.8  | 560.4  | 440.9  | 400.6  | 381.7  | 381.7  |
| 15°   | 3166.4 | 2892.2 | 2213.5 | 1466.3 | 850.7  | 505.4  | 372.2  | 340.1  | 337.3  | 337.3  | 337.3  |
| 17.5° | 3218.8 | 2895.0 | 2057.6 | 1174.6 | 579.3  | 361.5  | 321.2  | 317.2  | 319.9  | 319.9  | 319.9  |
| 20°   | 3272.6 | 2896.3 | 1889.6 | 904.4  | 408.5  | 314.4  | 302.4  | 301.0  | 303.7  | 303.7  | 305.1  |
| 22.5° | 3338.4 | 2902.9 | 1721.6 | 676.0  | 337.3  | 296.9  | 287.6  | 287.6  | 289.0  | 289.0  | 287.6  |
| 25°   | 3413.7 | 2916.3 | 1546.9 | 501.3  | 307.8  | 284.9  | 276.9  | 275.6  | 276.9  | 275.6  | 274.1  |
| 27.5° | 3507.8 | 2935.2 | 1352.0 | 392.5  | 294.4  | 272.8  | 266.1  | 266.1  | 264.7  | 263.5  | 262.1  |
| 30°   | 3626.0 | 2956.7 | 1132.9 | 333.3  | 280.9  | 262.1  | 255.3  | 254.0  | 252.7  | 249.9  | 249.9  |
| 32.5° | 3806.0 | 3003.7 | 916.5  | 302.4  | 266.1  | 247.3  | 241.9  | 241.9  | 239.3  | 236.5  | 235.2  |
| 35°   | 4082.9 | 3096.5 | 723.1  | 283.5  | 249.9  | 231.2  | 224.4  | 224.4  | 221.8  | 220.3  | 219.1  |
| 37.5° | 4466.0 | 3237.6 | 561.8  | 266.1  | 233.9  | 213.7  | 206.9  | 205.6  | 202.9  | 200.3  | 198.9  |
| 40°   | 4975.3 | 3412.2 | 442.2  | 249.9  | 217.8  | 196.2  | 190.8  | 188.2  | 182.8  | 178.7  | 178.7  |
| 42.5° | 5615.1 | 3611.2 | 358.8  | 232.5  | 198.9  | 180.1  | 176.0  | 172.0  | 162.6  | 158.5  | 157.3  |
| 45°   | 6284.4 | 3789.9 | 303.7  | 212.3  | 180.1  | 164.0  | 161.2  | 154.6  | 142.5  | 138.4  | 138.4  |
| 47.5° | 6766.9 | 3831.6 | 267.4  | 193.5  | 162.6  | 146.5  | 145.1  | 133.1  | 122.3  | 119.6  | 118.2  |
| 50°   | 7067.9 | 3749.7 | 237.8  | 174.7  | 146.5  | 130.3  | 126.3  | 111.6  | 104.8  | 102.1  | 100.8  |
| 52.5° | 7270.7 | 3603.2 | 213.7  | 158.5  | 131.6  | 115.6  | 106.2  | 95.4   | 90.0   | 87.4   | 87.4   |
| 55°   | 7433.5 | 3396.3 | 189.4  | 143.7  | 119.6  | 103.5  | 90.0   | 82.0   | 76.6   | 74.0   | 74.0   |
| 57.5° | 7479.2 | 3115.3 | 165.3  | 131.6  | 107.5  | 91.3   | 76.6   | 71.2   | 64.5   | 63.2   | 63.2   |
| 60°   | 7147.2 | 2608.7 | 146.5  | 116.9  | 96.8   | 79.3   | 67.2   | 60.5   | 53.7   | 52.5   | 51.1   |
| 62.5° | 6272.2 | 2018.7 | 129.0  | 103.5  | 84.6   | 68.5   | 57.8   | 49.7   | 44.4   | 44.4   | 44.4   |
| 65°   | 4784.5 | 1353.4 | 112.9  | 90.0   | 74.0   | 57.8   | 49.7   | 40.3   | 37.5   | 37.5   | 39.0   |
| 67.5° | 2864.0 | 736.5  | 96.8   | 76.6   | 63.2   | 48.4   | 41.6   | 35.0   | 33.7   | 35.0   | 35.0   |
| 69°   | 1678.5 | 432.7  | 87.4   | 68.5   | 55.0   | 43.0   | 36.3   | 30.9   | 33.7   | 35.0   | 35.0   |
| 70°   | 1036.3 | 291.6  | 80.7   | 61.8   | 49.7   | 39.0   | 33.7   | 29.6   | 32.2   | 33.7   | 33.7   |
| 72.5° | 289.0  | 150.6  | 64.5   | 48.4   | 40.3   | 32.2   | 26.9   | 26.9   | 30.9   | 32.2   | 32.2   |
| 75°   | 188.2  | 111.6  | 49.7   | 36.3   | 30.9   | 25.5   | 22.8   | 25.5   | 29.6   | 30.9   | 30.9   |
| 77.5° | 155.9  | 91.3   | 40.3   | 29.6   | 25.5   | 24.1   | 21.6   | 22.8   | 26.9   | 28.2   | 28.2   |
| 80°   | 142.5  | 64.5   | 32.2   | 26.9   | 22.8   | 21.6   | 20.2   | 18.8   | 24.1   | 25.5   | 25.5   |
| 82.5° | 135.7  | 51.1   | 28.2   | 24.1   | 21.6   | 18.8   | 17.5   | 18.8   | 21.6   | 22.8   | 24.1   |
| 85°   | 84.6   | 33.7   | 25.5   | 22.8   | 18.8   | 17.5   | 17.5   | 17.5   | 20.2   | 21.6   | 21.6   |
| 87.5° | 30.9   | 26.9   | 22.8   | 18.8   | 16.2   | 16.2   | 16.2   | 16.2   | 17.5   | 20.2   | 20.2   |
| 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)