

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: P193697

Luminaire Tested: **GAN-AF-09-LED-U-SL3-8030-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-SL3-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 28612 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 290  
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

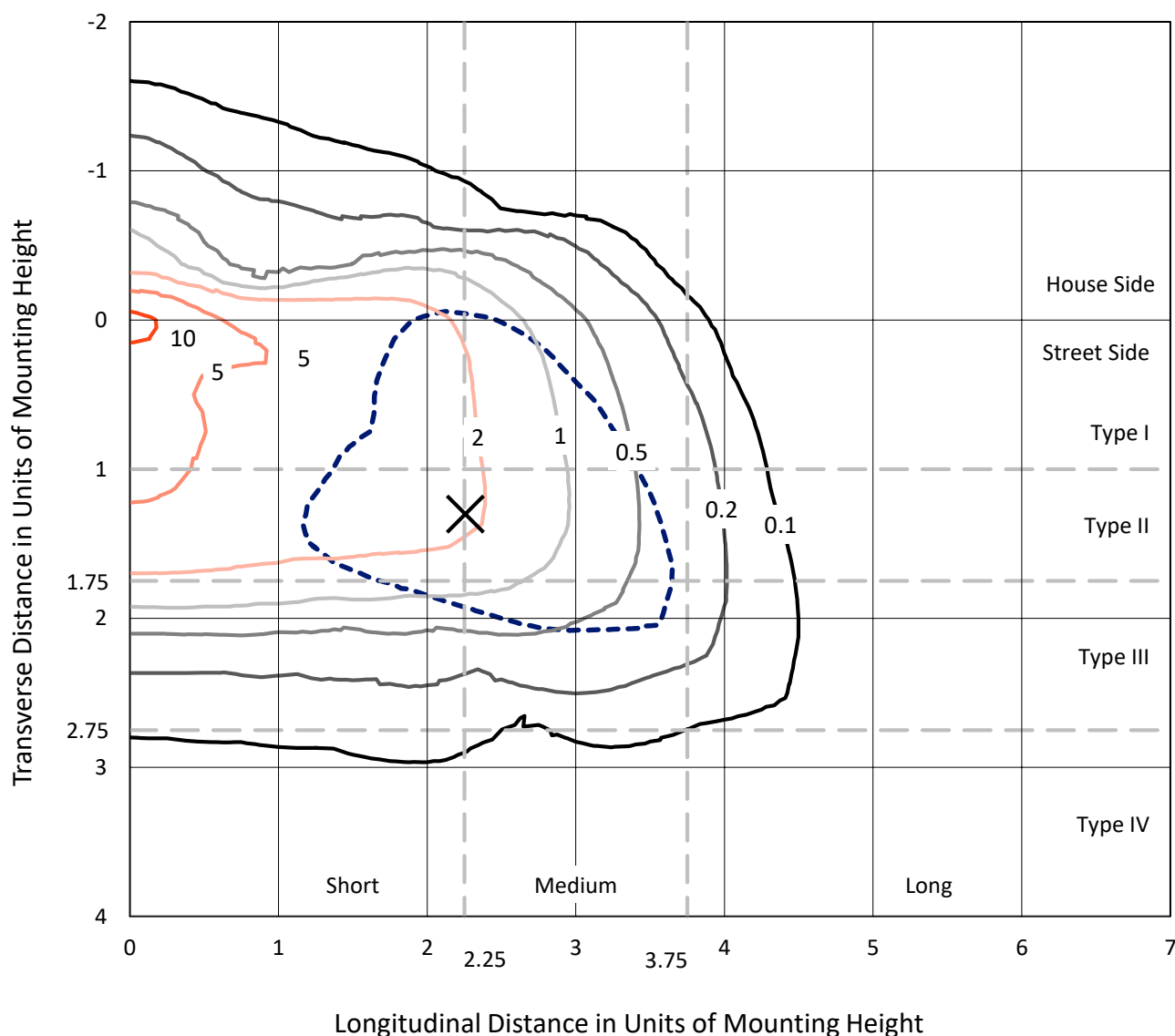


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

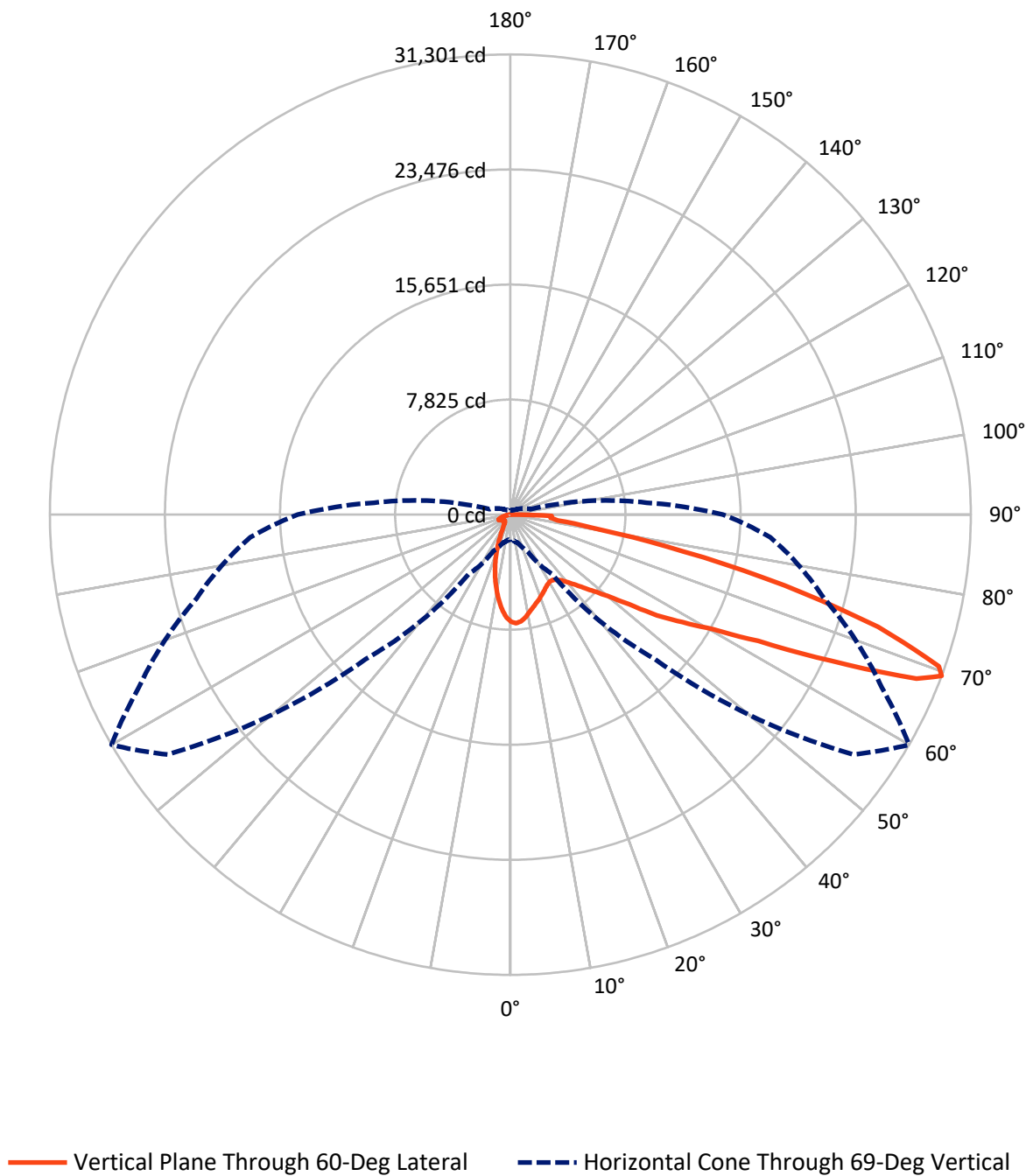


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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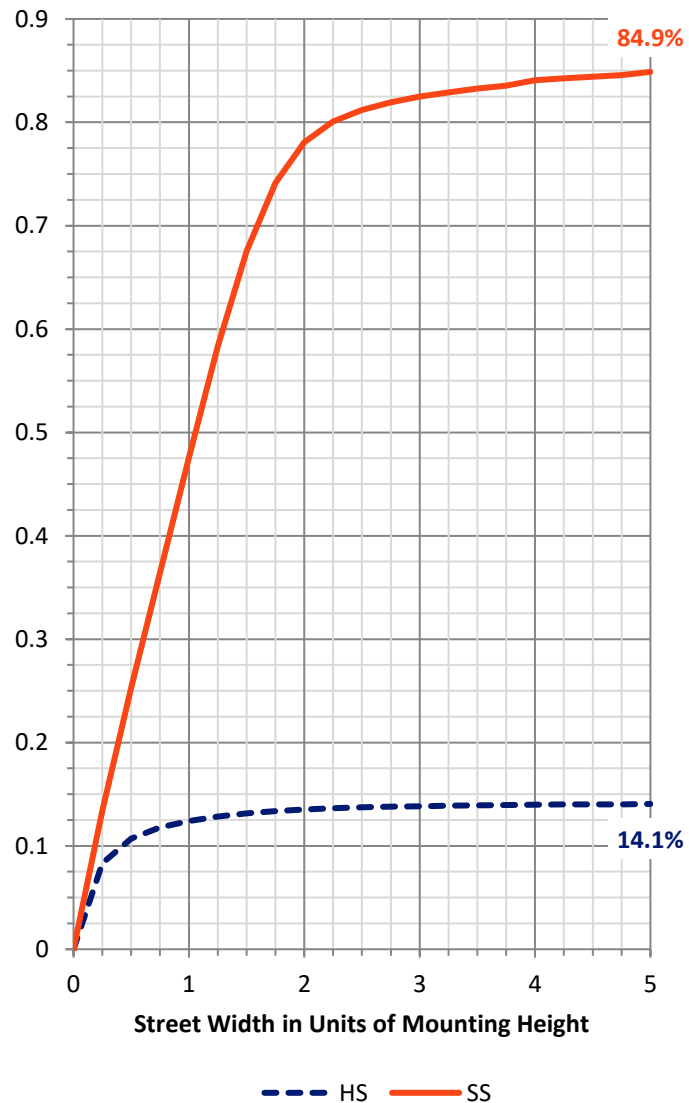
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4070.6   | 0.0    | 4070.6  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 24541.4  | 0.0    | 24541.4 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 28612.0  | 0.0    | 28612.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 616.5   | 2.2       |
| 10°-20°   | 1313.4  | 4.6       |
| 20°-30°   | 1673.5  | 5.8       |
| 30°-40°   | 2300.7  | 8.0       |
| 40°-50°   | 3733.0  | 13.0      |
| 50°-60°   | 5986.9  | 20.9      |
| 60°-70°   | 7968.1  | 27.8      |
| 70°-80°   | 4302.1  | 15.0      |
| 80°-90°   | 717.8   | 2.5       |
| 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°    | 28612.0 | 100.0     |
| 0°-180°   | 28612.0 | 100.0     |

**Coefficient of Utilization**



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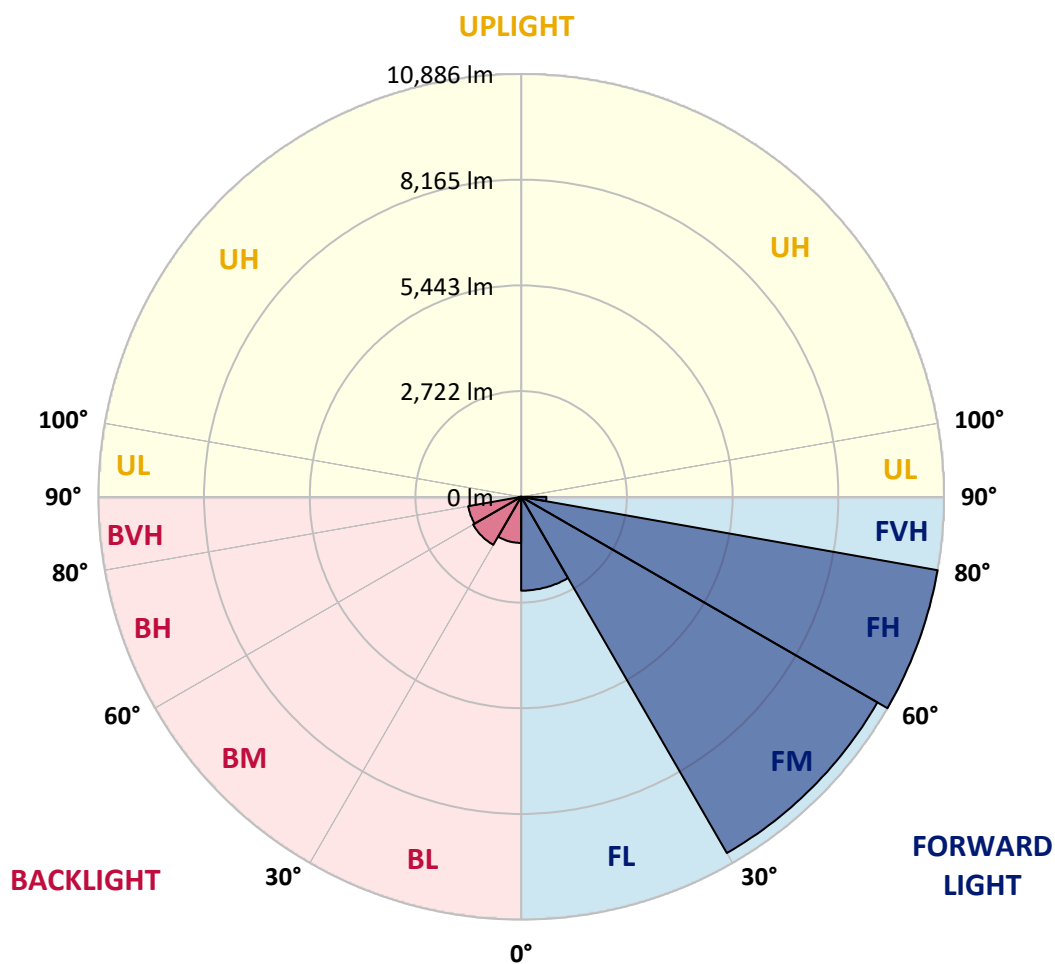
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2415.9  | 8.4       |                         |      |          |
| FM   | (30°-60°)   | 10590.5 | 37.0      |                         |      |          |
| FH   | (60°-80°)   | 10886.3 | 38.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 648.7   | 2.3       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1187.5  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1430.1  | 5.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1383.9  | 4.8       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 69.1    | 0.2       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7290.8  | 7290.8  | 7290.8  | 7290.8  | 7290.8  | 7290.8  | 7290.8  | 7290.8  | 7290.8  | 7290.8  | 7290.8  |
| 2.5°  | 7440.0  | 7456.6  | 7449.7  | 7445.6  | 7458.0  | 7438.7  | 7398.6  | 7386.1  | 7366.8  | 7321.2  | 7243.8  |
| 5°    | 7160.9  | 7210.6  | 7207.8  | 7245.2  | 7307.4  | 7323.9  | 7306.0  | 7308.7  | 7272.8  | 7216.1  | 7087.6  |
| 7.5°  | 6678.5  | 6699.2  | 6710.3  | 6791.8  | 6905.2  | 6996.4  | 7073.8  | 7098.7  | 7082.1  | 7033.7  | 6867.8  |
| 10°   | 6180.9  | 6197.5  | 6223.8  | 6319.1  | 6462.9  | 6588.6  | 6735.2  | 6819.5  | 6855.4  | 6847.1  | 6661.9  |
| 12.5° | 5753.8  | 5770.4  | 5805.0  | 5912.8  | 6084.2  | 6239.0  | 6451.8  | 6556.9  | 6642.5  | 6693.7  | 6494.7  |
| 15°   | 5371.0  | 5406.9  | 5440.1  | 5564.5  | 5756.6  | 5959.8  | 6200.3  | 6333.0  | 6465.6  | 6580.4  | 6346.8  |
| 17.5° | 5072.4  | 5108.4  | 5127.7  | 5241.1  | 5445.6  | 5694.4  | 5976.4  | 6132.5  | 6298.4  | 6486.4  | 6200.3  |
| 20°   | 4899.7  | 4916.3  | 4908.0  | 4971.5  | 5155.4  | 5419.4  | 5753.8  | 5934.9  | 6135.3  | 6397.9  | 6053.8  |
| 22.5° | 4851.3  | 4852.7  | 4822.3  | 4815.4  | 4934.2  | 5156.8  | 5516.1  | 5735.9  | 5981.9  | 6339.9  | 5928.0  |
| 25°   | 4968.8  | 4964.6  | 4881.7  | 4814.0  | 4826.4  | 4956.3  | 5286.7  | 5542.4  | 5853.3  | 6327.4  | 5831.2  |
| 27.5° | 5230.0  | 5242.4  | 5119.4  | 4992.3  | 4866.5  | 4862.4  | 5112.5  | 5382.0  | 5748.3  | 6384.1  | 5789.8  |
| 30°   | 5596.3  | 5617.0  | 5485.7  | 5324.0  | 5087.6  | 4892.8  | 5044.8  | 5286.7  | 5683.3  | 6501.6  | 5782.9  |
| 32.5° | 5997.1  | 6019.2  | 5919.7  | 5749.7  | 5440.1  | 5080.7  | 5091.8  | 5295.0  | 5680.6  | 6666.0  | 5829.9  |
| 35°   | 6424.2  | 6449.1  | 6397.9  | 6254.2  | 5910.0  | 5427.7  | 5271.5  | 5429.0  | 5770.4  | 6917.6  | 5955.6  |
| 37.5° | 6901.0  | 6939.7  | 6953.5  | 6816.7  | 6449.1  | 5885.1  | 5565.9  | 5683.3  | 5973.6  | 7267.3  | 6186.4  |
| 40°   | 7587.9  | 7641.8  | 7637.7  | 7441.4  | 7066.9  | 6503.0  | 6020.6  | 6051.0  | 6290.1  | 7734.4  | 6555.5  |
| 42.5° | 8903.7  | 8914.8  | 8570.6  | 8143.6  | 7746.9  | 7152.6  | 6556.9  | 6532.0  | 6726.9  | 8326.0  | 7098.7  |
| 45°   | 10577.5 | 10531.9 | 9766.2  | 8941.0  | 8457.3  | 7898.9  | 7254.8  | 7133.2  | 7281.1  | 9047.5  | 7778.7  |
| 47.5° | 11966.5 | 11861.5 | 10894.0 | 9755.1  | 9209.2  | 8710.2  | 8074.4  | 7861.6  | 7943.1  | 9865.7  | 8657.7  |
| 50°   | 12448.9 | 12370.1 | 11568.5 | 10432.4 | 9921.0  | 9699.8  | 9083.4  | 8782.1  | 8804.2  | 10841.5 | 9687.4  |
| 52.5° | 12345.2 | 12334.2 | 11799.3 | 10878.8 | 10587.2 | 10739.2 | 10512.5 | 10104.8 | 9889.2  | 11925.1 | 10798.6 |
| 55°   | 12100.6 | 12124.1 | 11930.6 | 11398.5 | 11348.7 | 11742.6 | 12379.8 | 12078.5 | 11408.2 | 13018.3 | 11947.2 |
| 57.5° | 11250.6 | 11311.4 | 11737.1 | 12052.2 | 12574.7 | 13160.7 | 13883.6 | 13797.9 | 13043.2 | 14200.1 | 13312.7 |
| 60°   | 9064.1  | 9205.0  | 10346.7 | 11925.1 | 13836.6 | 15669.3 | 15992.7 | 15793.7 | 14729.4 | 15666.5 | 15116.4 |
| 62.5° | 6350.9  | 6497.4  | 7854.7  | 10324.6 | 13629.3 | 18502.7 | 19763.2 | 18904.9 | 17150.9 | 17826.8 | 17450.9 |
| 65°   | 3400.1  | 3470.5  | 4507.1  | 7163.6  | 11506.3 | 19087.3 | 25273.8 | 23967.6 | 20985.0 | 20490.2 | 19448.0 |
| 67.5° | 1875.6  | 1914.3  | 2310.9  | 3617.1  | 7369.6  | 16808.2 | 28784.4 | 29771.2 | 25776.9 | 22263.5 | 19084.5 |
| 69°   | 1695.9  | 1731.8  | 1991.7  | 2739.4  | 4931.5  | 13897.4 | 28441.6 | 31301.3 | 27877.7 | 22087.9 | 17741.1 |
| 70°   | 1658.6  | 1691.7  | 1925.3  | 2525.2  | 3991.6  | 11455.2 | 27293.1 | 30910.1 | 28378.0 | 21459.1 | 16569.1 |
| 72.5° | 1492.7  | 1528.6  | 1755.3  | 2268.1  | 3411.1  | 5711.0  | 21619.4 | 26134.8 | 25764.4 | 18606.3 | 12567.8 |
| 75°   | 1391.8  | 1425.0  | 1809.2  | 2221.1  | 3266.0  | 3614.3  | 14252.6 | 19261.5 | 18939.4 | 13015.6 | 6776.6  |
| 77.5° | 595.7   | 592.9   | 839.0   | 1879.7  | 3314.4  | 3499.6  | 7658.4  | 12032.9 | 10978.3 | 5563.1  | 1946.0  |
| 80°   | 398.1   | 391.1   | 398.1   | 552.9   | 3039.3  | 3518.9  | 4012.3  | 6107.7  | 4613.6  | 1418.1  | 959.2   |
| 82.5° | 342.8   | 337.2   | 349.7   | 337.2   | 1068.4  | 4016.5  | 3411.1  | 3248.0  | 2193.5  | 805.8   | 475.5   |
| 85°   | 230.8   | 221.1   | 301.3   | 302.7   | 504.5   | 3568.7  | 3842.3  | 2743.5  | 1774.7  | 478.2   | 235.0   |
| 87.5° | 110.6   | 107.8   | 175.5   | 214.2   | 295.8   | 1449.9  | 4310.9  | 2811.3  | 1789.9  | 244.6   | 112.0   |
| 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°    | 7290.8  | 7290.8  | 7290.8 | 7290.8 | 7290.8 | 7290.8 | 7290.8 | 7290.8 | 7290.8 | 7290.8 | 7290.8 |
| 2.5°  | 7220.3  | 7163.6  | 7108.3 | 7042.0 | 6972.9 | 6895.5 | 6856.8 | 6818.1 | 6808.4 | 6797.3 | 6758.6 |
| 5°    | 7021.3  | 6941.1  | 6802.9 | 6650.8 | 6490.5 | 6334.3 | 6215.5 | 6140.8 | 6084.2 | 6055.1 | 6004.0 |
| 7.5°  | 6764.2  | 6646.7  | 6404.8 | 6142.2 | 5872.7 | 5626.7 | 5413.8 | 5279.8 | 5152.6 | 5093.2 | 5025.4 |
| 10°   | 6519.5  | 6344.0  | 5968.1 | 5581.1 | 5194.1 | 4822.3 | 4472.6 | 4225.2 | 4005.4 | 3882.4 | 3795.3 |
| 12.5° | 6309.5  | 6069.0  | 5547.9 | 5024.1 | 4493.3 | 3964.0 | 3440.1 | 3028.3 | 2684.1 | 2503.0 | 2410.4 |
| 15°   | 6104.9  | 5814.6  | 5148.5 | 4483.7 | 3802.3 | 3082.2 | 2393.9 | 1926.7 | 1642.0 | 1528.6 | 1489.9 |
| 17.5° | 5919.7  | 5547.9  | 4747.6 | 3939.1 | 3089.1 | 2218.3 | 1608.8 | 1351.7 | 1242.5 | 1205.2 | 1192.8 |
| 20°   | 5719.3  | 5278.4  | 4331.6 | 3369.6 | 2345.5 | 1550.8 | 1256.4 | 1143.0 | 1098.8 | 1087.7 | 1082.2 |
| 22.5° | 5525.8  | 5013.0  | 3933.6 | 2760.1 | 1684.8 | 1196.9 | 1079.4 | 1032.5 | 1025.5 | 1035.2 | 1035.2 |
| 25°   | 5361.3  | 4775.3  | 3503.7 | 2123.0 | 1237.0 | 1007.6 | 966.1  | 955.1  | 981.3  | 1017.3 | 1024.2 |
| 27.5° | 5238.3  | 4580.4  | 3046.2 | 1567.3 | 985.5  | 876.3  | 874.9  | 892.9  | 957.8  | 1026.9 | 1040.7 |
| 30°   | 5154.0  | 4395.2  | 2557.0 | 1130.6 | 826.5  | 771.2  | 793.3  | 832.0  | 927.4  | 1025.5 | 1051.8 |
| 32.5° | 5111.1  | 4258.4  | 2046.9 | 874.9  | 707.7  | 677.2  | 714.6  | 761.6  | 855.5  | 946.8  | 981.3  |
| 35°   | 5144.3  | 4157.5  | 1566.0 | 729.8  | 624.7  | 601.2  | 639.9  | 685.5  | 740.8  | 779.5  | 805.8  |
| 37.5° | 5268.7  | 4117.4  | 1181.7 | 653.8  | 568.1  | 545.9  | 576.4  | 602.6  | 624.7  | 635.8  | 648.2  |
| 40°   | 5536.8  | 4160.2  | 946.8  | 615.1  | 536.3  | 508.6  | 521.1  | 530.7  | 544.6  | 555.6  | 561.1  |
| 42.5° | 5932.1  | 4288.8  | 848.6  | 599.8  | 519.7  | 479.6  | 476.8  | 481.0  | 499.0  | 519.7  | 523.8  |
| 45°   | 6485.0  | 4515.4  | 841.7  | 609.5  | 511.4  | 456.1  | 443.7  | 449.2  | 476.8  | 508.6  | 514.2  |
| 47.5° | 7191.3  | 4861.0  | 897.0  | 638.5  | 518.3  | 443.7  | 422.9  | 429.8  | 464.4  | 507.2  | 514.2  |
| 50°   | 8046.8  | 5343.3  | 989.6  | 681.4  | 548.7  | 446.4  | 416.0  | 420.2  | 456.1  | 503.1  | 510.0  |
| 52.5° | 9057.1  | 6027.5  | 1090.5 | 722.9  | 580.5  | 464.4  | 421.6  | 411.9  | 445.0  | 486.5  | 494.8  |
| 55°   | 10180.8 | 6905.2  | 1194.2 | 760.2  | 597.1  | 486.5  | 432.6  | 400.8  | 424.3  | 458.9  | 465.8  |
| 57.5° | 11560.2 | 8132.5  | 1373.8 | 796.1  | 608.1  | 501.7  | 443.7  | 389.8  | 398.1  | 422.9  | 428.5  |
| 60°   | 13427.5 | 9868.5  | 1690.4 | 855.5  | 633.0  | 507.2  | 442.3  | 380.1  | 371.8  | 385.6  | 388.4  |
| 62.5° | 15665.1 | 11753.7 | 1954.3 | 930.2  | 674.5  | 511.4  | 434.0  | 373.2  | 349.7  | 349.7  | 352.4  |
| 65°   | 16993.4 | 12258.2 | 1807.8 | 992.4  | 709.0  | 507.2  | 424.3  | 366.3  | 333.1  | 317.9  | 319.3  |
| 67.5° | 15866.9 | 10780.7 | 1549.4 | 1004.8 | 707.7  | 487.9  | 409.1  | 353.8  | 316.5  | 293.0  | 291.6  |
| 69°   | 14455.8 | 9301.8  | 1433.3 | 971.6  | 674.5  | 463.0  | 389.8  | 340.0  | 304.1  | 279.2  | 277.8  |
| 70°   | 13318.3 | 8399.2  | 1357.3 | 935.7  | 638.5  | 445.0  | 374.6  | 327.6  | 294.4  | 270.9  | 268.1  |
| 72.5° | 9683.3  | 5503.7  | 1159.6 | 804.4  | 526.6  | 373.2  | 323.4  | 287.5  | 262.6  | 248.8  | 246.0  |
| 75°   | 4838.9  | 2624.7  | 941.2  | 652.4  | 403.6  | 298.5  | 265.4  | 240.5  | 228.1  | 225.3  | 223.9  |
| 77.5° | 1589.5  | 1202.5  | 673.1  | 486.5  | 299.9  | 233.6  | 214.2  | 196.3  | 193.5  | 201.8  | 199.0  |
| 80°   | 873.5   | 699.4   | 427.1  | 322.0  | 204.6  | 171.4  | 168.6  | 158.9  | 163.1  | 176.9  | 174.1  |
| 82.5° | 445.0   | 363.5   | 264.0  | 193.5  | 138.2  | 123.0  | 134.1  | 128.5  | 134.1  | 146.5  | 145.1  |
| 85°   | 219.8   | 199.0   | 167.2  | 117.5  | 91.2   | 78.8   | 95.4   | 99.5   | 102.3  | 112.0  | 112.0  |
| 87.5° | 127.2   | 117.5   | 88.5   | 55.3   | 45.6   | 41.5   | 55.3   | 53.9   | 63.6   | 69.1   | 67.7   |
| 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)