

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: P193723

Luminaire Tested: **GAN-AF-05-LED-U-SL3-8030-1200**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193723  
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-05-LED-U-SL3-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1200mA 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: 26633 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

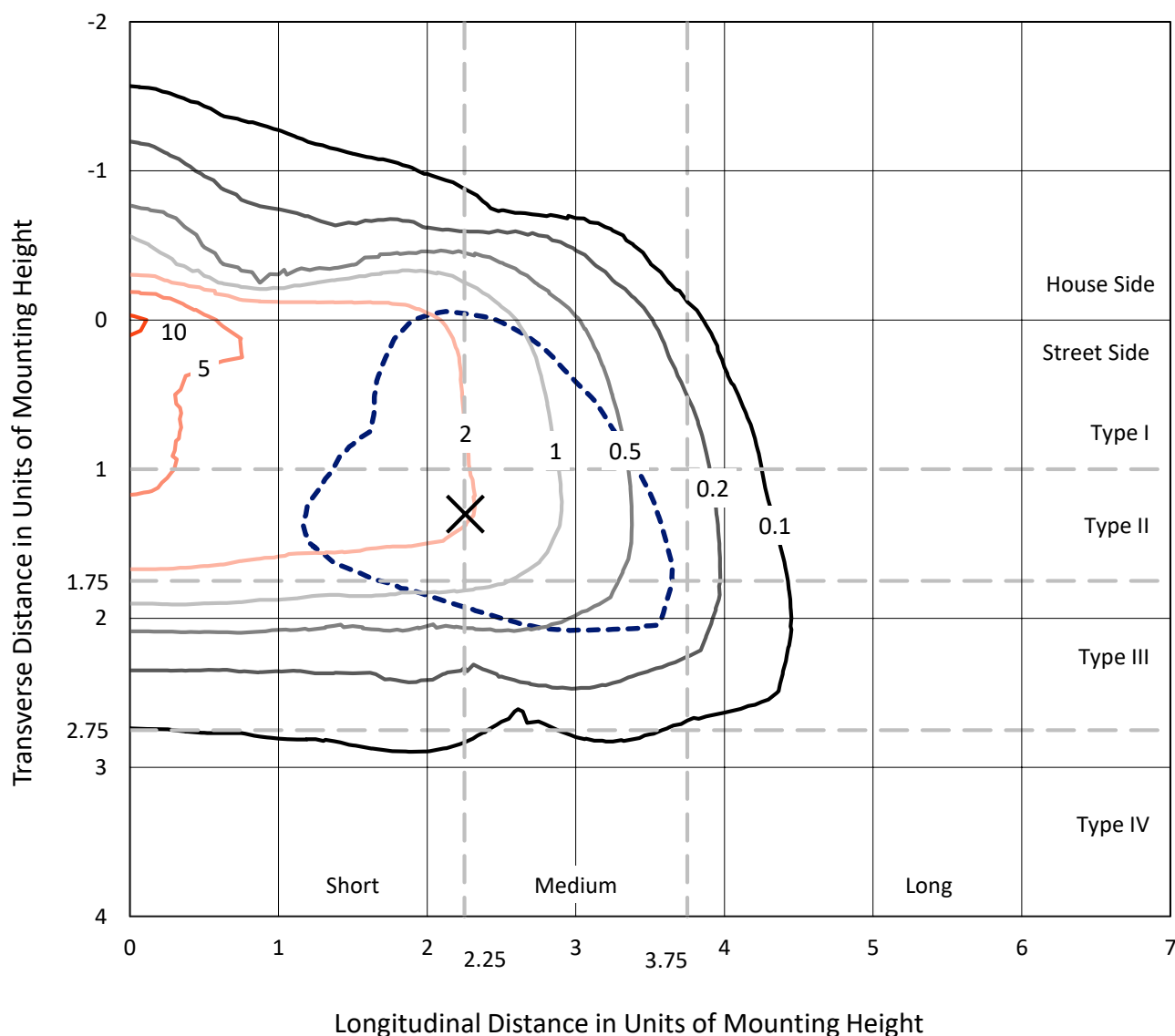


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

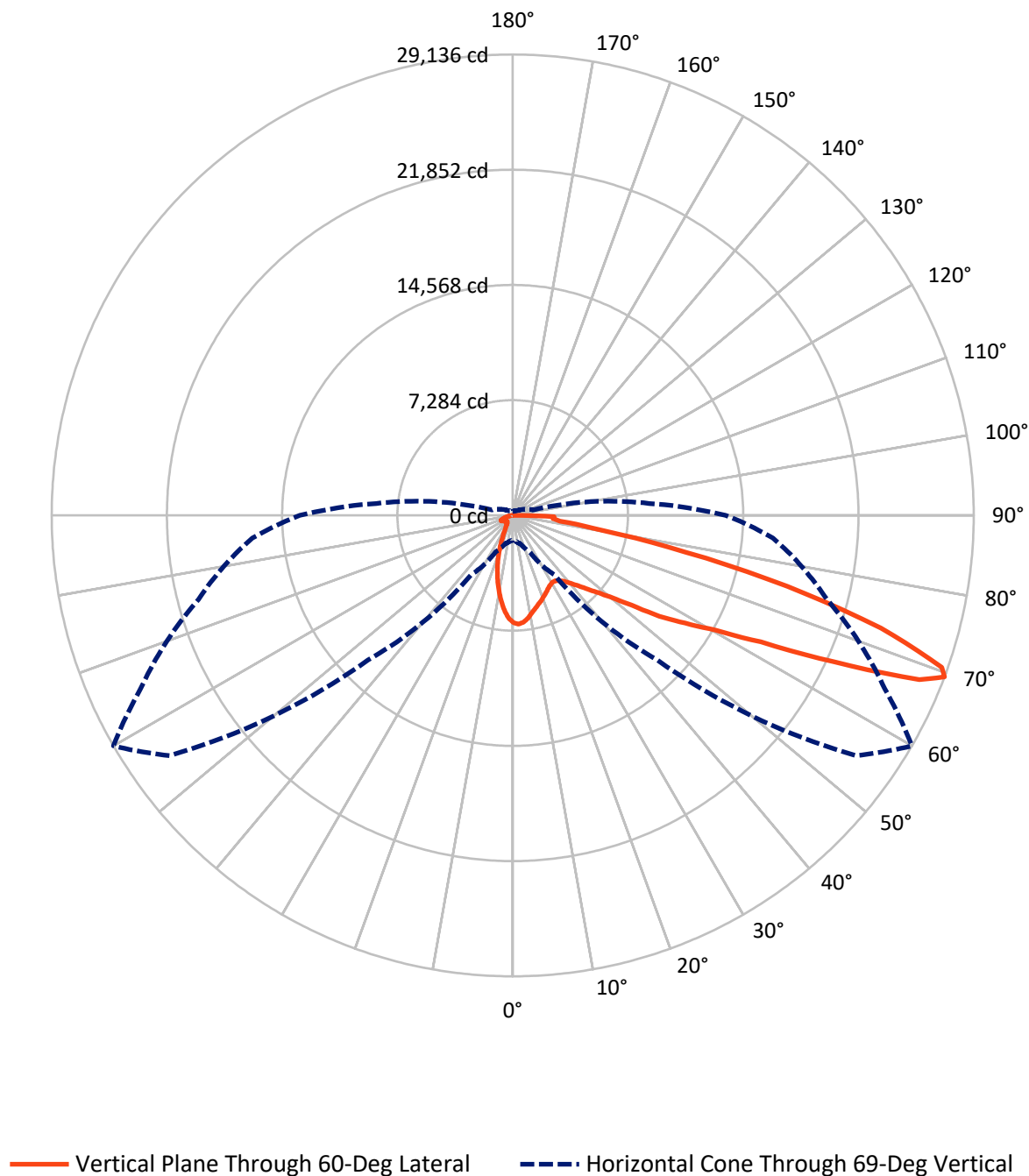


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3789.0   | 0.0    | 3789.0  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 22844.0  | 0.0    | 22844.0 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 26633.0  | 0.0    | 26633.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 573.8   | 2.2       |
| 10°-20°   | 1222.6  | 4.6       |
| 20°-30°   | 1557.8  | 5.8       |
| 30°-40°   | 2141.5  | 8.0       |
| 40°-50°   | 3474.8  | 13.0      |
| 50°-60°   | 5572.8  | 20.9      |
| 60°-70°   | 7416.9  | 27.8      |
| 70°-80°   | 4004.6  | 15.0      |
| 80°-90°   | 668.2   | 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°    | 26633.0 | 100.0     |
| 0°-180°   | 26633.0 | 100.0     |

**Coefficient of Utilization**



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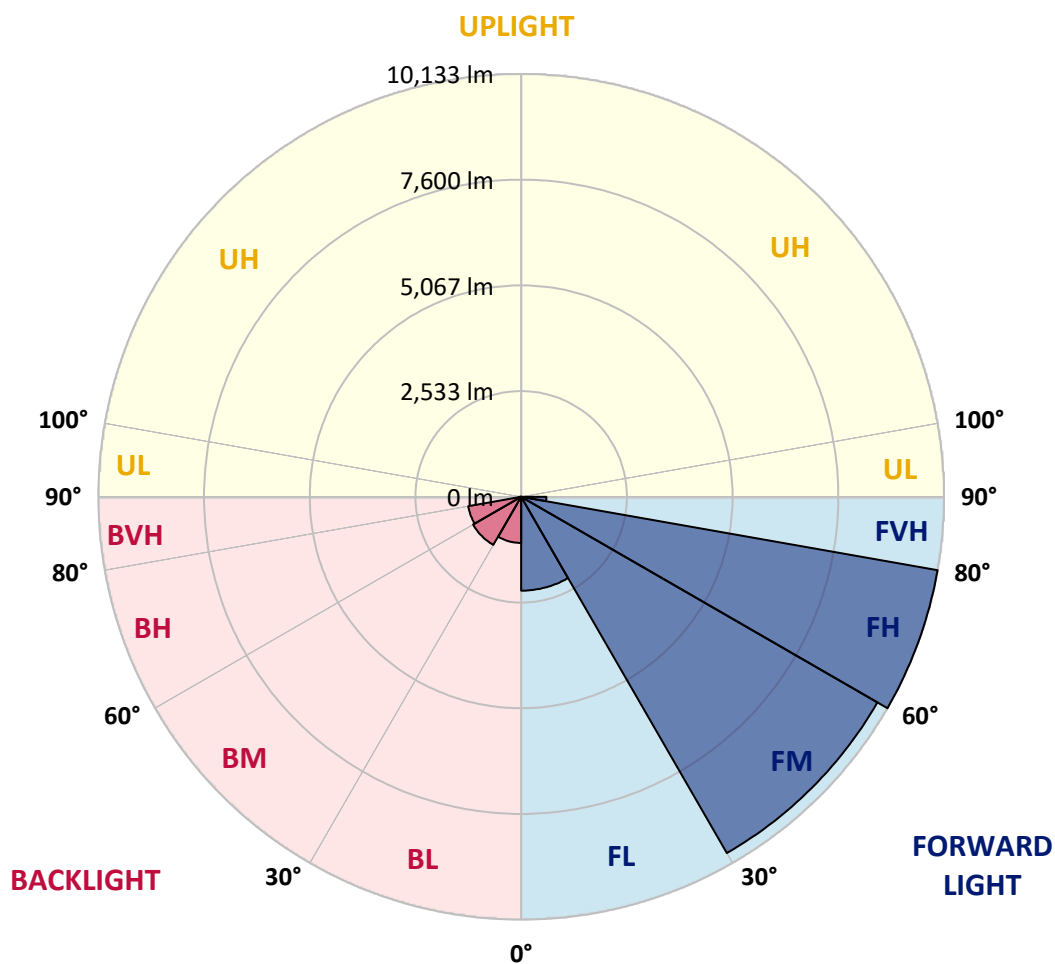
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2248.8  | 8.4       |                         |      |          |
| FM   | (30°-60°)   | 9858.0  | 37.0      |                         |      |          |
| FH   | (60°-80°)   | 10133.3 | 38.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 603.8   | 2.3       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1105.4  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1331.2  | 5.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1288.2  | 4.8       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 64.3    | 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°    | 6786.5  | 6786.5  | 6786.5  | 6786.5  | 6786.5  | 6786.5  | 6786.5  | 6786.5  | 6786.5  | 6786.5  | 6786.5  |
| 2.5°  | 6925.4  | 6940.9  | 6934.4  | 6930.6  | 6942.2  | 6924.2  | 6886.8  | 6875.3  | 6857.3  | 6814.8  | 6742.8  |
| 5°    | 6665.6  | 6711.9  | 6709.3  | 6744.0  | 6801.9  | 6817.4  | 6800.6  | 6803.2  | 6769.8  | 6717.0  | 6597.4  |
| 7.5°  | 6216.6  | 6235.9  | 6246.1  | 6322.1  | 6427.5  | 6512.5  | 6584.5  | 6607.7  | 6592.2  | 6547.2  | 6392.8  |
| 10°   | 5753.4  | 5768.8  | 5793.3  | 5882.1  | 6015.9  | 6132.9  | 6269.3  | 6347.8  | 6381.2  | 6373.5  | 6201.1  |
| 12.5° | 5355.9  | 5371.3  | 5403.5  | 5503.8  | 5663.3  | 5807.4  | 6005.6  | 6103.3  | 6183.1  | 6230.7  | 6045.4  |
| 15°   | 4999.5  | 5032.9  | 5063.8  | 5179.6  | 5358.4  | 5547.6  | 5771.4  | 5894.9  | 6018.4  | 6125.2  | 5907.8  |
| 17.5° | 4721.6  | 4755.0  | 4773.1  | 4878.6  | 5069.0  | 5300.5  | 5563.0  | 5708.4  | 5862.8  | 6037.7  | 5771.4  |
| 20°   | 4560.8  | 4576.2  | 4568.5  | 4627.7  | 4798.8  | 5044.5  | 5355.9  | 5524.4  | 5710.9  | 5955.4  | 5635.0  |
| 22.5° | 4515.8  | 4517.0  | 4488.7  | 4482.3  | 4592.9  | 4800.1  | 5134.6  | 5339.1  | 5568.1  | 5901.4  | 5518.0  |
| 25°   | 4625.1  | 4621.2  | 4544.1  | 4481.0  | 4492.6  | 4613.5  | 4921.0  | 5159.0  | 5448.5  | 5889.8  | 5427.9  |
| 27.5° | 4868.3  | 4879.8  | 4765.3  | 4647.0  | 4529.9  | 4526.0  | 4758.9  | 5009.8  | 5350.7  | 5942.5  | 5389.3  |
| 30°   | 5209.2  | 5228.5  | 5106.3  | 4955.7  | 4735.7  | 4554.3  | 4695.9  | 4921.0  | 5290.2  | 6051.9  | 5382.9  |
| 32.5° | 5582.3  | 5602.9  | 5510.2  | 5352.0  | 5063.8  | 4729.3  | 4739.6  | 4928.7  | 5287.7  | 6205.0  | 5426.6  |
| 35°   | 5979.8  | 6003.0  | 5955.4  | 5821.6  | 5501.2  | 5052.2  | 4906.9  | 5053.5  | 5371.3  | 6439.1  | 5543.7  |
| 37.5° | 6423.7  | 6459.7  | 6472.6  | 6345.2  | 6003.0  | 5478.1  | 5180.9  | 5290.2  | 5560.4  | 6764.6  | 5758.5  |
| 40°   | 7063.1  | 7113.3  | 7109.4  | 6926.7  | 6578.1  | 6053.2  | 5604.2  | 5632.5  | 5855.0  | 7199.5  | 6102.1  |
| 42.5° | 8287.9  | 8298.2  | 7977.8  | 7580.3  | 7211.1  | 6657.8  | 6103.3  | 6080.2  | 6261.6  | 7750.1  | 6607.7  |
| 45°   | 9845.9  | 9803.4  | 9090.7  | 8322.6  | 7872.3  | 7352.6  | 6753.0  | 6639.8  | 6777.5  | 8421.7  | 7240.6  |
| 47.5° | 11138.9 | 11041.1 | 10140.5 | 9080.4  | 8572.2  | 8107.8  | 7516.0  | 7317.8  | 7393.7  | 9183.3  | 8058.9  |
| 50°   | 11587.9 | 11514.5 | 10768.3 | 9710.8  | 9234.8  | 9028.9  | 8455.1  | 8174.7  | 8195.3  | 10091.6 | 9017.4  |
| 52.5° | 11491.4 | 11481.1 | 10983.2 | 10126.3 | 9854.9  | 9996.4  | 9785.4  | 9405.9  | 9205.2  | 11100.3 | 10051.7 |
| 55°   | 11263.6 | 11285.5 | 11105.4 | 10610.1 | 10563.8 | 10930.4 | 11523.5 | 11243.1 | 10619.1 | 12117.9 | 11120.8 |
| 57.5° | 10472.4 | 10529.0 | 10925.3 | 11218.6 | 11704.9 | 12250.4 | 12923.3 | 12843.5 | 12141.1 | 13217.9 | 12391.9 |
| 60°   | 8437.1  | 8568.3  | 9631.0  | 11100.3 | 12879.5 | 14585.5 | 14886.5 | 14701.3 | 13710.6 | 14582.9 | 14070.9 |
| 62.5° | 5911.6  | 6048.0  | 7311.4  | 9610.4  | 12686.6 | 17222.9 | 18396.2 | 17597.3 | 15964.7 | 16593.8 | 16243.8 |
| 65°   | 3164.9  | 3230.5  | 4195.4  | 6668.1  | 10710.4 | 17767.1 | 23525.7 | 22309.9 | 19533.5 | 19072.9 | 18102.9 |
| 67.5° | 1745.8  | 1781.9  | 2151.1  | 3366.9  | 6859.8  | 15645.6 | 26793.5 | 27712.0 | 23994.0 | 20723.6 | 17764.5 |
| 69°   | 1578.6  | 1612.0  | 1853.9  | 2549.9  | 4590.4  | 12936.1 | 26474.4 | 29136.2 | 25949.5 | 20560.2 | 16514.0 |
| 70°   | 1543.8  | 1574.7  | 1792.1  | 2350.5  | 3715.5  | 10662.8 | 25405.3 | 28772.2 | 26415.2 | 19974.8 | 15423.0 |
| 72.5° | 1389.5  | 1422.9  | 1633.9  | 2111.2  | 3175.2  | 5316.0  | 20124.0 | 24327.2 | 23982.4 | 17319.4 | 11698.5 |
| 75°   | 1295.5  | 1326.4  | 1684.1  | 2067.5  | 3040.1  | 3364.3  | 13266.8 | 17929.2 | 17629.4 | 12115.3 | 6307.9  |
| 77.5° | 554.5   | 551.9   | 780.9   | 1749.7  | 3085.1  | 3257.5  | 7128.7  | 11200.6 | 10219.0 | 5178.3  | 1811.4  |
| 80°   | 370.5   | 364.1   | 370.5   | 514.6   | 2829.1  | 3275.5  | 3734.8  | 5685.2  | 4294.5  | 1320.0  | 892.9   |
| 82.5° | 319.1   | 313.9   | 325.5   | 313.9   | 994.5   | 3738.7  | 3175.2  | 3023.4  | 2041.7  | 750.1   | 442.6   |
| 85°   | 214.9   | 205.8   | 280.5   | 281.8   | 469.6   | 3321.8  | 3576.6  | 2553.8  | 1651.9  | 445.1   | 218.7   |
| 87.5° | 102.9   | 100.4   | 163.4   | 199.4   | 275.3   | 1349.6  | 4012.7  | 2616.8  | 1666.1  | 227.7   | 104.2   |
| 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°    | 6786.5  | 6786.5  | 6786.5 | 6786.5 | 6786.5 | 6786.5 | 6786.5 | 6786.5 | 6786.5 | 6786.5 | 6786.5 |
| 2.5°  | 6720.9  | 6668.1  | 6616.7 | 6554.9 | 6490.6 | 6418.5 | 6382.5 | 6346.5 | 6337.5 | 6327.2 | 6291.2 |
| 5°    | 6535.6  | 6461.0  | 6332.3 | 6190.8 | 6041.6 | 5896.2 | 5785.6 | 5716.1 | 5663.3 | 5636.3 | 5588.7 |
| 7.5°  | 6296.3  | 6187.0  | 5961.8 | 5717.4 | 5466.5 | 5237.5 | 5039.4 | 4914.6 | 4796.2 | 4740.9 | 4677.9 |
| 10°   | 6068.6  | 5905.2  | 5555.3 | 5195.0 | 4834.8 | 4488.7 | 4163.2 | 3932.9 | 3728.4 | 3613.9 | 3532.8 |
| 12.5° | 5873.1  | 5649.2  | 5164.2 | 4676.6 | 4182.5 | 3689.8 | 3202.2 | 2818.8 | 2498.5 | 2329.9 | 2243.7 |
| 15°   | 5682.6  | 5412.5  | 4792.4 | 4173.5 | 3539.3 | 2869.0 | 2228.3 | 1793.4 | 1528.4 | 1422.9 | 1386.9 |
| 17.5° | 5510.2  | 5164.2  | 4419.3 | 3666.6 | 2875.4 | 2064.9 | 1497.5 | 1258.2 | 1156.6 | 1121.9 | 1110.3 |
| 20°   | 5323.7  | 4913.3  | 4032.0 | 3136.6 | 2183.3 | 1443.5 | 1169.5 | 1064.0 | 1022.8 | 1012.5 | 1007.4 |
| 22.5° | 5143.6  | 4666.3  | 3661.5 | 2569.2 | 1568.3 | 1114.1 | 1004.8 | 961.0  | 954.6  | 963.6  | 963.6  |
| 25°   | 4990.5  | 4445.0  | 3261.4 | 1976.1 | 1151.5 | 937.9  | 899.3  | 889.0  | 913.4  | 946.9  | 953.3  |
| 27.5° | 4876.0  | 4263.6  | 2835.5 | 1458.9 | 917.3  | 815.7  | 814.4  | 831.1  | 891.6  | 955.9  | 968.8  |
| 30°   | 4797.5  | 4091.2  | 2380.1 | 1052.4 | 769.4  | 717.9  | 738.5  | 774.5  | 863.3  | 954.6  | 979.1  |
| 32.5° | 4757.6  | 3963.8  | 1905.4 | 814.4  | 658.7  | 630.4  | 665.1  | 708.9  | 796.4  | 881.3  | 913.4  |
| 35°   | 4788.5  | 3869.9  | 1457.6 | 679.3  | 581.5  | 559.6  | 595.7  | 638.1  | 689.6  | 725.6  | 750.1  |
| 37.5° | 4904.3  | 3832.6  | 1100.0 | 608.5  | 528.8  | 508.2  | 536.5  | 560.9  | 581.5  | 591.8  | 603.4  |
| 40°   | 5153.9  | 3872.5  | 881.3  | 572.5  | 499.2  | 473.4  | 485.0  | 494.0  | 506.9  | 517.2  | 522.3  |
| 42.5° | 5521.8  | 3992.1  | 789.9  | 558.4  | 483.7  | 446.4  | 443.9  | 447.7  | 464.4  | 483.7  | 487.6  |
| 45°   | 6036.4  | 4203.1  | 783.5  | 567.4  | 476.0  | 424.6  | 413.0  | 418.1  | 443.9  | 473.4  | 478.6  |
| 47.5° | 6693.9  | 4524.8  | 835.0  | 594.4  | 482.5  | 413.0  | 393.7  | 400.1  | 432.3  | 472.2  | 478.6  |
| 50°   | 7490.2  | 4973.8  | 921.2  | 634.3  | 510.8  | 415.6  | 387.2  | 391.1  | 424.6  | 468.3  | 474.7  |
| 52.5° | 8430.7  | 5610.6  | 1015.1 | 672.9  | 540.3  | 432.3  | 392.4  | 383.4  | 414.3  | 452.9  | 460.6  |
| 55°   | 9476.6  | 6427.5  | 1111.6 | 707.6  | 555.8  | 452.9  | 402.7  | 373.1  | 395.0  | 427.1  | 433.6  |
| 57.5° | 10760.6 | 7570.0  | 1278.8 | 741.0  | 566.1  | 467.0  | 413.0  | 362.8  | 370.5  | 393.7  | 398.8  |
| 60°   | 12498.7 | 9185.9  | 1573.4 | 796.4  | 589.2  | 472.2  | 411.7  | 353.8  | 346.1  | 358.9  | 361.5  |
| 62.5° | 14581.6 | 10940.7 | 1819.2 | 865.8  | 627.8  | 476.0  | 404.0  | 347.4  | 325.5  | 325.5  | 328.1  |
| 65°   | 15818.0 | 11410.3 | 1682.8 | 923.7  | 660.0  | 472.2  | 395.0  | 340.9  | 310.1  | 295.9  | 297.2  |
| 67.5° | 14769.5 | 10035.0 | 1442.2 | 935.3  | 658.7  | 454.1  | 380.8  | 329.4  | 294.6  | 272.7  | 271.5  |
| 69°   | 13455.9 | 8658.4  | 1334.1 | 904.4  | 627.8  | 431.0  | 362.8  | 316.5  | 283.0  | 259.9  | 258.6  |
| 70°   | 12397.1 | 7818.3  | 1263.4 | 871.0  | 594.4  | 414.3  | 348.7  | 304.9  | 274.0  | 252.2  | 249.6  |
| 72.5° | 9013.5  | 5123.0  | 1079.4 | 748.8  | 490.2  | 347.4  | 301.1  | 267.6  | 244.4  | 231.6  | 229.0  |
| 75°   | 4504.2  | 2443.1  | 876.1  | 607.2  | 375.7  | 277.9  | 247.0  | 223.9  | 212.3  | 209.7  | 208.4  |
| 77.5° | 1479.5  | 1119.3  | 626.5  | 452.9  | 279.2  | 217.4  | 199.4  | 182.7  | 180.1  | 187.8  | 185.3  |
| 80°   | 813.1   | 651.0   | 397.5  | 299.8  | 190.4  | 159.5  | 157.0  | 148.0  | 151.8  | 164.7  | 162.1  |
| 82.5° | 414.3   | 338.4   | 245.7  | 180.1  | 128.7  | 114.5  | 124.8  | 119.6  | 124.8  | 136.4  | 135.1  |
| 85°   | 204.6   | 185.3   | 155.7  | 109.4  | 84.9   | 73.3   | 88.8   | 92.6   | 95.2   | 104.2  | 104.2  |
| 87.5° | 118.4   | 109.4   | 82.3   | 51.5   | 42.5   | 38.6   | 51.5   | 50.2   | 59.2   | 64.3   | 63.0   |
| 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)