

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: P268508

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20458 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

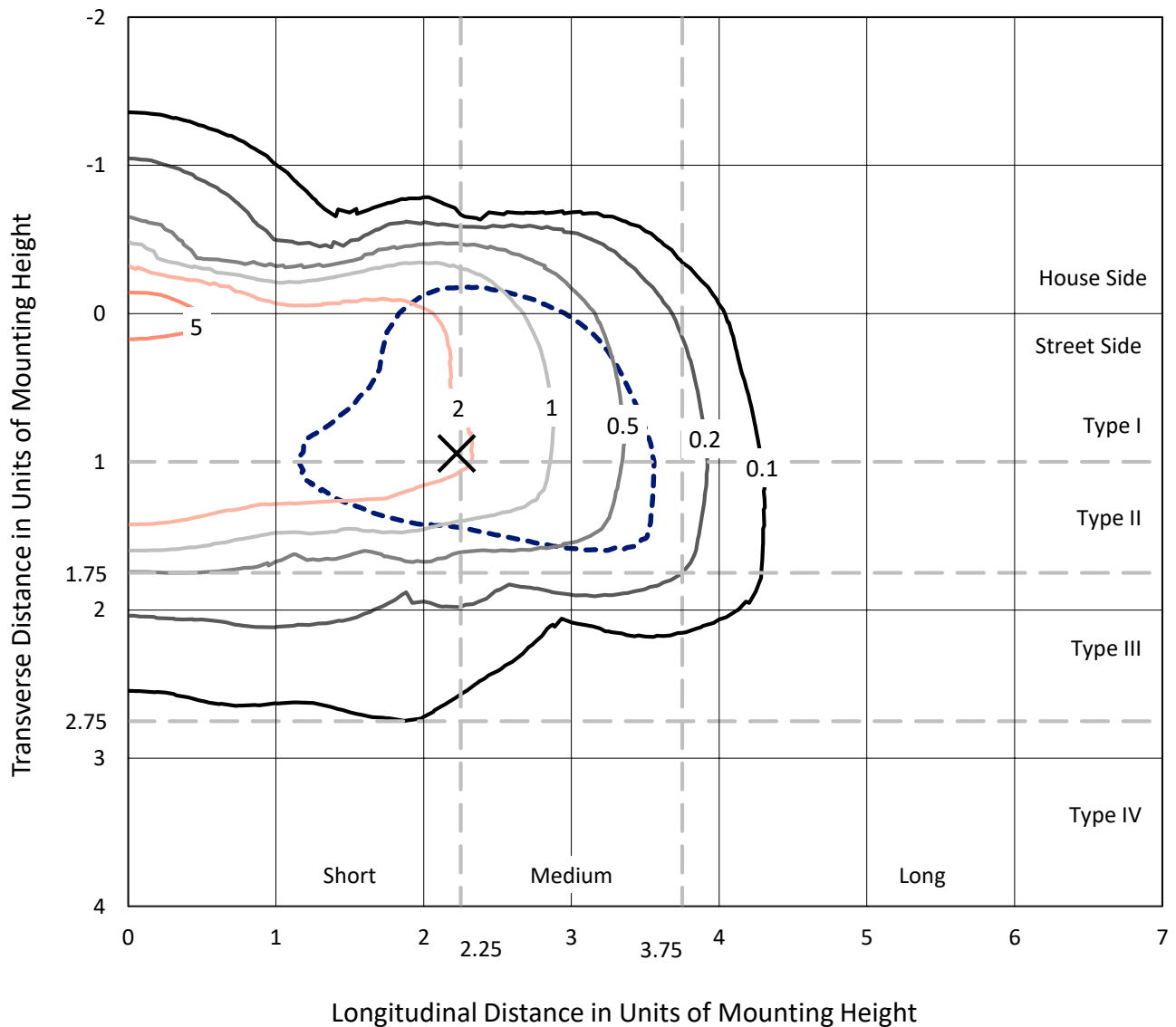
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

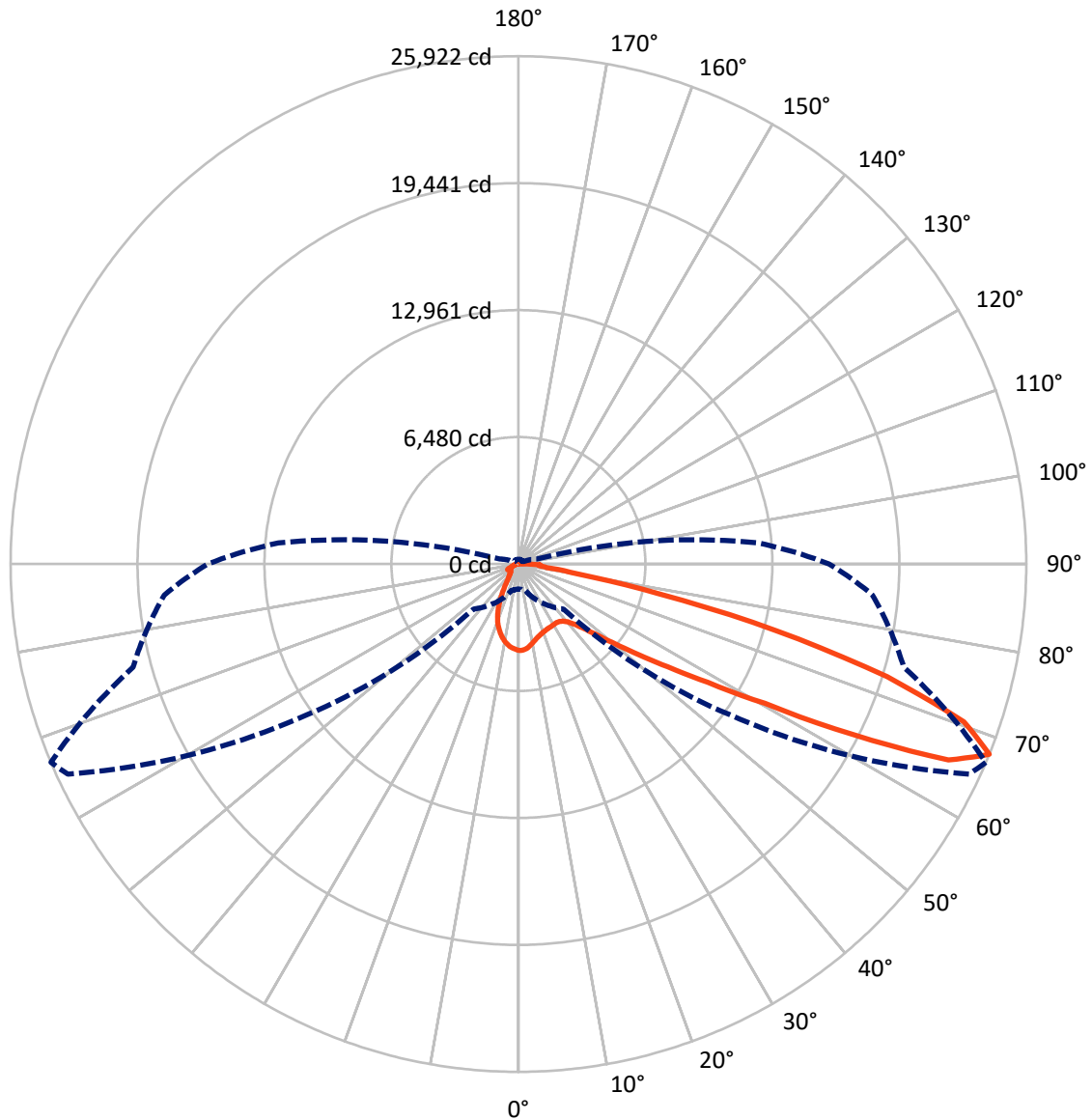
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3389.6   | 0.0    | 3389.6  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 17068.3  | 0.0    | 17068.3 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 20458.0  | 0.0    | 20458.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 376.5   | 1.8       |
| 10°-20°   | 871.1   | 4.3       |
| 20°-30°   | 1180.8  | 5.8       |
| 30°-40°   | 1678.6  | 8.2       |
| 40°-50°   | 2808.4  | 13.7      |
| 50°-60°   | 4442.8  | 21.7      |
| 60°-70°   | 5659.7  | 27.7      |
| 70°-80°   | 2964.6  | 14.5      |
| 80°-90°   | 475.5   | 2.3       |
| 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°    | 20458.0 | 100.0     |
| 0°-180°   | 20458.0 | 100.0     |

**Coefficient of Utilization**



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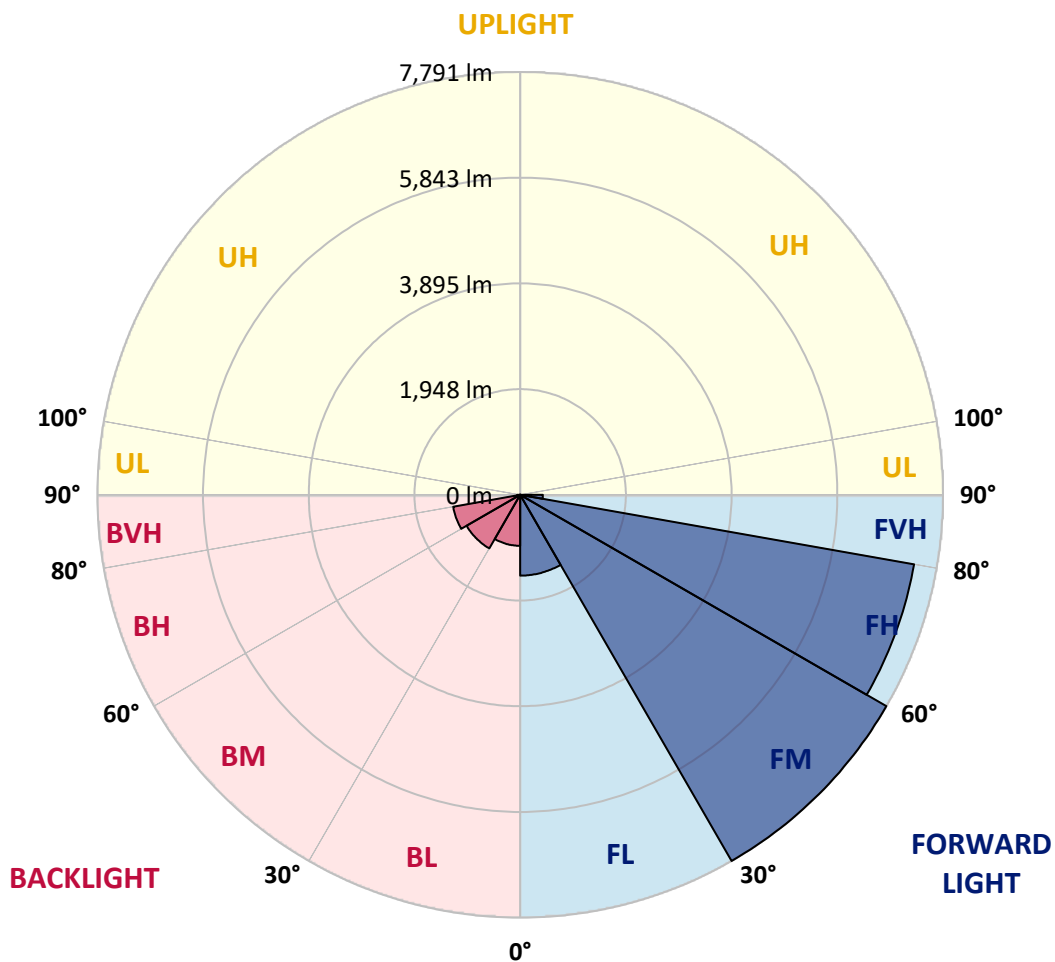
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1488.8 | 7.3       |                         |      |         |
| FM (30°-60°)   | 7790.8 | 38.1      |                         |      |         |
| FH (60°-80°)   | 7370.6 | 36.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 418.1  | 2.0       |                         |      | G3/500  |
| BL (0°-30°)    | 939.5  | 4.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1139.0 | 5.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 1253.7 | 6.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 57.4   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4412.7 | 4412.7 | 4412.7 | 4412.7 | 4412.7 | 4412.7  | 4412.7  | 4412.7  | 4412.7  | 4412.7  | 4412.7  |
| 2.5°  | 4231.1 | 4238.3 | 4260.4 | 4274.6 | 4338.1 | 4365.4  | 4384.4  | 4403.6  | 4406.6  | 4415.8  | 4406.6  |
| 5°    | 3787.3 | 3802.3 | 3843.8 | 3890.2 | 4013.3 | 4110.0  | 4212.0  | 4318.0  | 4337.0  | 4405.6  | 4424.8  |
| 7.5°  | 3443.3 | 3439.3 | 3473.4 | 3529.0 | 3655.2 | 3789.3  | 3967.9  | 4178.6  | 4220.1  | 4374.3  | 4449.0  |
| 10°   | 3192.0 | 3189.1 | 3225.4 | 3282.9 | 3402.9 | 3530.0  | 3731.7  | 4020.3  | 4078.8  | 4325.0  | 4472.2  |
| 12.5° | 3006.4 | 3007.3 | 3043.7 | 3107.2 | 3229.3 | 3357.4  | 3562.3  | 3866.9  | 3941.7  | 4267.5  | 4496.5  |
| 15°   | 2883.3 | 2891.4 | 2920.6 | 2988.2 | 3107.2 | 3235.3  | 3436.1  | 3752.0  | 3835.7  | 4222.0  | 4523.8  |
| 17.5° | 2842.0 | 2855.1 | 2865.1 | 2914.6 | 3016.5 | 3144.5  | 3341.3  | 3667.2  | 3756.0  | 4190.9  | 4547.8  |
| 20°   | 2880.2 | 2895.4 | 2876.3 | 2893.4 | 2957.9 | 3070.9  | 3266.6  | 3600.5  | 3691.4  | 4155.5  | 4551.0  |
| 22.5° | 3044.7 | 3058.9 | 3002.3 | 2952.9 | 2948.9 | 3017.4  | 3205.2  | 3548.1  | 3642.0  | 4129.2  | 4551.9  |
| 25°   | 3334.2 | 3343.3 | 3248.5 | 3133.5 | 3021.4 | 2998.4  | 3161.8  | 3511.8  | 3611.7  | 4106.1  | 4532.8  |
| 27.5° | 3689.3 | 3696.4 | 3587.6 | 3418.1 | 3193.0 | 3043.7  | 3146.7  | 3490.6  | 3594.6  | 4085.9  | 4500.5  |
| 30°   | 4121.2 | 4154.5 | 4008.1 | 3794.4 | 3466.4 | 3177.9  | 3176.9  | 3479.6  | 3575.3  | 4051.5  | 4437.0  |
| 32.5° | 4563.1 | 4577.1 | 4476.3 | 4259.5 | 3834.7 | 3414.0  | 3261.7  | 3487.6  | 3570.4  | 4010.3  | 4356.2  |
| 35°   | 5010.9 | 5029.2 | 4963.6 | 4789.0 | 4338.1 | 3760.0  | 3427.0  | 3535.0  | 3601.7  | 3996.1  | 4299.7  |
| 37.5° | 5591.1 | 5615.2 | 5524.4 | 5322.7 | 4950.5 | 4229.1  | 3702.5  | 3654.0  | 3697.5  | 4036.4  | 4282.6  |
| 40°   | 6508.1 | 6497.0 | 6231.7 | 5931.1 | 5620.3 | 4829.4  | 4095.9  | 3855.9  | 3881.0  | 4166.6  | 4335.1  |
| 42.5° | 7575.4 | 7548.3 | 7091.3 | 6619.2 | 6356.8 | 5555.7  | 4616.5  | 4206.0  | 4200.8  | 4422.9  | 4519.7  |
| 45°   | 8427.0 | 8404.8 | 7993.2 | 7411.0 | 7201.3 | 6383.0  | 5289.4  | 4727.5  | 4690.2  | 4829.4  | 4860.6  |
| 47.5° | 8888.0 | 8889.1 | 8651.9 | 8176.8 | 8171.7 | 7434.3  | 6154.0  | 5482.1  | 5417.6  | 5483.2  | 5449.8  |
| 50°   | 8726.7 | 8747.9 | 8722.6 | 8571.3 | 9057.5 | 8812.4  | 7283.0  | 6534.5  | 6404.2  | 6468.8  | 6340.6  |
| 52.5° | 7945.8 | 7972.9 | 8122.4 | 8354.3 | 9429.8 | 10478.0 | 8941.5  | 7841.8  | 7690.5  | 7667.4  | 7525.0  |
| 55°   | 6561.6 | 6594.8 | 6899.6 | 7530.1 | 9120.0 | 11596.8 | 11558.5 | 9508.5  | 9267.4  | 9048.4  | 8987.9  |
| 57.5° | 4522.6 | 4578.2 | 5068.4 | 6004.7 | 8118.3 | 11934.8 | 14674.8 | 11884.3 | 11394.0 | 10629.4 | 10643.5 |
| 60°   | 2549.4 | 2614.0 | 3192.0 | 4042.6 | 6096.5 | 11567.6 | 17045.7 | 15482.9 | 14447.8 | 12480.6 | 12585.6 |
| 62.5° | 1621.3 | 1690.8 | 2129.7 | 2808.7 | 3658.1 | 9590.1  | 18017.1 | 20485.8 | 19171.3 | 14762.6 | 14865.5 |
| 65°   | 1312.6 | 1342.7 | 1549.5 | 2318.3 | 2656.3 | 5777.7  | 17279.6 | 24607.0 | 24116.7 | 17659.1 | 17178.7 |
| 67.5° | 1281.3 | 1291.4 | 1398.3 | 1946.1 | 2547.4 | 3247.6  | 13783.1 | 25377.7 | 25921.6 | 20363.8 | 18142.3 |
| 70°   | 1266.2 | 1301.5 | 1575.8 | 1857.2 | 2439.3 | 2739.0  | 8282.7  | 23265.3 | 24123.9 | 21071.1 | 16860.0 |
| 72.5° | 614.4  | 612.4  | 792.9  | 1679.7 | 2748.2 | 2840.9  | 4255.4  | 18824.3 | 19685.8 | 18255.3 | 13854.6 |
| 75°   | 495.3  | 452.9  | 432.9  | 615.3  | 2642.2 | 2933.8  | 2711.9  | 12952.8 | 13576.2 | 12239.4 | 8516.8  |
| 77.5° | 470.2  | 419.7  | 384.4  | 385.5  | 1116.9 | 3111.3  | 2297.1  | 7169.0  | 7350.6  | 5528.4  | 2333.4  |
| 80°   | 389.4  | 343.1  | 317.8  | 358.2  | 540.8  | 2963.0  | 2483.9  | 3244.5  | 2977.2  | 1357.9  | 776.9   |
| 82.5° | 270.4  | 246.1  | 239.0  | 300.7  | 432.9  | 2111.6  | 2888.4  | 1743.3  | 1461.8  | 679.9   | 479.2   |
| 85°   | 172.6  | 147.3  | 163.4  | 218.9  | 337.0  | 974.5   | 2975.1  | 1359.0  | 1080.5  | 431.7   | 270.4   |
| 87.5° | 79.7   | 64.6   | 80.7   | 121.0  | 219.9  | 336.0   | 2830.9  | 1526.4  | 1112.8  | 228.0   | 170.5   |
| 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°    | 4412.7  | 4412.7  | 4412.7 | 4412.7 | 4412.7 | 4412.7 | 4412.7 | 4412.7 | 4412.7 | 4412.7 | 4412.7 |
| 2.5°  | 4414.8  | 4395.5  | 4380.4 | 4352.2 | 4320.9 | 4290.7 | 4263.4 | 4229.1 | 4219.0 | 4209.9 | 4224.1 |
| 5°    | 4428.9  | 4409.7  | 4354.3 | 4267.5 | 4171.5 | 4081.9 | 3992.1 | 3915.4 | 3867.9 | 3841.7 | 3856.9 |
| 7.5°  | 4450.1  | 4422.9  | 4307.8 | 4148.5 | 3975.9 | 3818.5 | 3656.1 | 3525.9 | 3430.1 | 3384.8 | 3397.7 |
| 10°   | 4469.2  | 4416.7  | 4229.1 | 3990.0 | 3737.8 | 3503.7 | 3247.6 | 3035.6 | 2878.3 | 2795.5 | 2815.6 |
| 12.5° | 4477.3  | 4393.6  | 4119.2 | 3792.3 | 3446.3 | 3103.3 | 2725.9 | 2409.2 | 2183.2 | 2100.4 | 2083.3 |
| 15°   | 4485.3  | 4367.3  | 3998.0 | 3567.3 | 3094.1 | 2608.9 | 2080.3 | 1700.9 | 1513.3 | 1472.0 | 1462.8 |
| 17.5° | 4487.5  | 4321.9  | 3860.8 | 3323.2 | 2681.5 | 2020.7 | 1422.5 | 1181.5 | 1182.3 | 1249.0 | 1257.1 |
| 20°   | 4466.3  | 4254.4  | 3694.4 | 3019.6 | 2187.3 | 1397.3 | 976.5  | 935.2  | 1087.6 | 1254.0 | 1274.2 |
| 22.5° | 4417.8  | 4164.5  | 3505.7 | 2665.5 | 1621.3 | 920.0  | 755.7  | 801.0  | 997.7  | 1201.6 | 1224.7 |
| 25°   | 4356.2  | 4055.6  | 3282.9 | 2254.7 | 1073.5 | 657.7  | 633.6  | 689.1  | 822.2  | 958.4  | 971.5  |
| 27.5° | 4272.5  | 3926.5  | 3032.6 | 1784.7 | 697.2  | 541.8  | 557.8  | 595.2  | 649.7  | 710.2  | 716.3  |
| 30°   | 4164.5  | 3772.2  | 2765.3 | 1301.5 | 526.6  | 487.3  | 510.4  | 530.7  | 553.9  | 588.2  | 591.2  |
| 32.5° | 4040.4  | 3623.9  | 2490.9 | 898.9  | 467.1  | 459.0  | 477.2  | 487.3  | 505.4  | 526.6  | 528.7  |
| 35°   | 3936.6  | 3482.5  | 2206.3 | 635.6  | 441.8  | 437.8  | 450.0  | 454.1  | 471.2  | 494.3  | 496.4  |
| 37.5° | 3877.1  | 3367.6  | 1912.9 | 512.6  | 424.7  | 418.7  | 425.7  | 425.7  | 450.0  | 484.2  | 489.2  |
| 40°   | 3881.0  | 3304.0  | 1619.3 | 463.0  | 410.6  | 402.5  | 403.6  | 403.6  | 434.8  | 472.1  | 475.2  |
| 42.5° | 3991.0  | 3320.1  | 1359.0 | 443.9  | 399.4  | 390.5  | 385.5  | 388.3  | 414.7  | 438.8  | 440.9  |
| 45°   | 4249.3  | 3434.1  | 1114.7 | 431.7  | 388.3  | 385.5  | 374.2  | 373.2  | 383.3  | 394.4  | 394.4  |
| 47.5° | 4673.1  | 3659.2  | 949.2  | 423.7  | 379.4  | 378.4  | 365.3  | 352.0  | 351.1  | 355.1  | 355.1  |
| 50°   | 5362.1  | 4046.5  | 838.4  | 414.7  | 373.2  | 365.3  | 350.1  | 329.9  | 322.9  | 325.8  | 325.8  |
| 52.5° | 6395.2  | 4737.7  | 796.0  | 402.5  | 360.2  | 347.0  | 329.9  | 309.7  | 303.6  | 304.6  | 304.6  |
| 55°   | 7750.0  | 5798.9  | 789.9  | 388.3  | 346.0  | 324.8  | 310.8  | 295.6  | 288.5  | 290.5  | 290.5  |
| 57.5° | 9405.6  | 7266.7  | 897.9  | 366.1  | 326.9  | 302.6  | 294.6  | 284.6  | 279.5  | 282.4  | 281.4  |
| 60°   | 11418.3 | 9187.7  | 1331.6 | 343.1  | 307.7  | 282.4  | 282.4  | 274.4  | 270.4  | 273.4  | 272.4  |
| 62.5° | 13736.6 | 11394.0 | 1872.4 | 325.8  | 287.5  | 266.3  | 270.4  | 266.3  | 262.3  | 264.3  | 263.4  |
| 65°   | 15792.7 | 12831.7 | 1753.4 | 312.7  | 267.3  | 251.2  | 258.3  | 256.2  | 253.2  | 255.3  | 254.2  |
| 67.5° | 15852.2 | 12299.0 | 984.6  | 298.6  | 248.2  | 236.1  | 246.1  | 245.1  | 243.1  | 245.1  | 244.1  |
| 70°   | 14147.1 | 10385.1 | 554.9  | 272.4  | 228.0  | 217.8  | 232.0  | 231.0  | 229.0  | 233.0  | 232.0  |
| 72.5° | 11334.5 | 7536.2  | 405.6  | 240.0  | 207.8  | 198.7  | 214.9  | 213.8  | 213.8  | 219.9  | 216.9  |
| 75°   | 6522.2  | 3878.1  | 323.8  | 205.8  | 186.7  | 179.7  | 193.8  | 194.8  | 196.6  | 204.9  | 198.7  |
| 77.5° | 1859.3  | 1208.6  | 264.3  | 174.5  | 160.3  | 157.5  | 171.4  | 173.6  | 174.5  | 183.7  | 175.6  |
| 80°   | 691.1   | 556.9   | 217.8  | 146.2  | 131.2  | 132.2  | 145.3  | 148.3  | 149.3  | 158.5  | 148.3  |
| 82.5° | 440.9   | 367.2   | 176.5  | 112.9  | 102.9  | 101.9  | 118.0  | 122.1  | 122.1  | 123.1  | 117.0  |
| 85°   | 257.3   | 219.9   | 133.2  | 81.7   | 72.7   | 69.6   | 87.8   | 94.9   | 91.7   | 89.8   | 85.8   |
| 87.5° | 172.6   | 151.4   | 81.7   | 45.5   | 39.3   | 37.3   | 51.5   | 56.6   | 54.4   | 51.5   | 48.4   |
| 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)