

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: P192911

Luminaire Tested: **GAN-AF-03-LED-U-SL3-7030-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192911  
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-03-LED-U-SL3-7030-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA 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: 17577.6 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

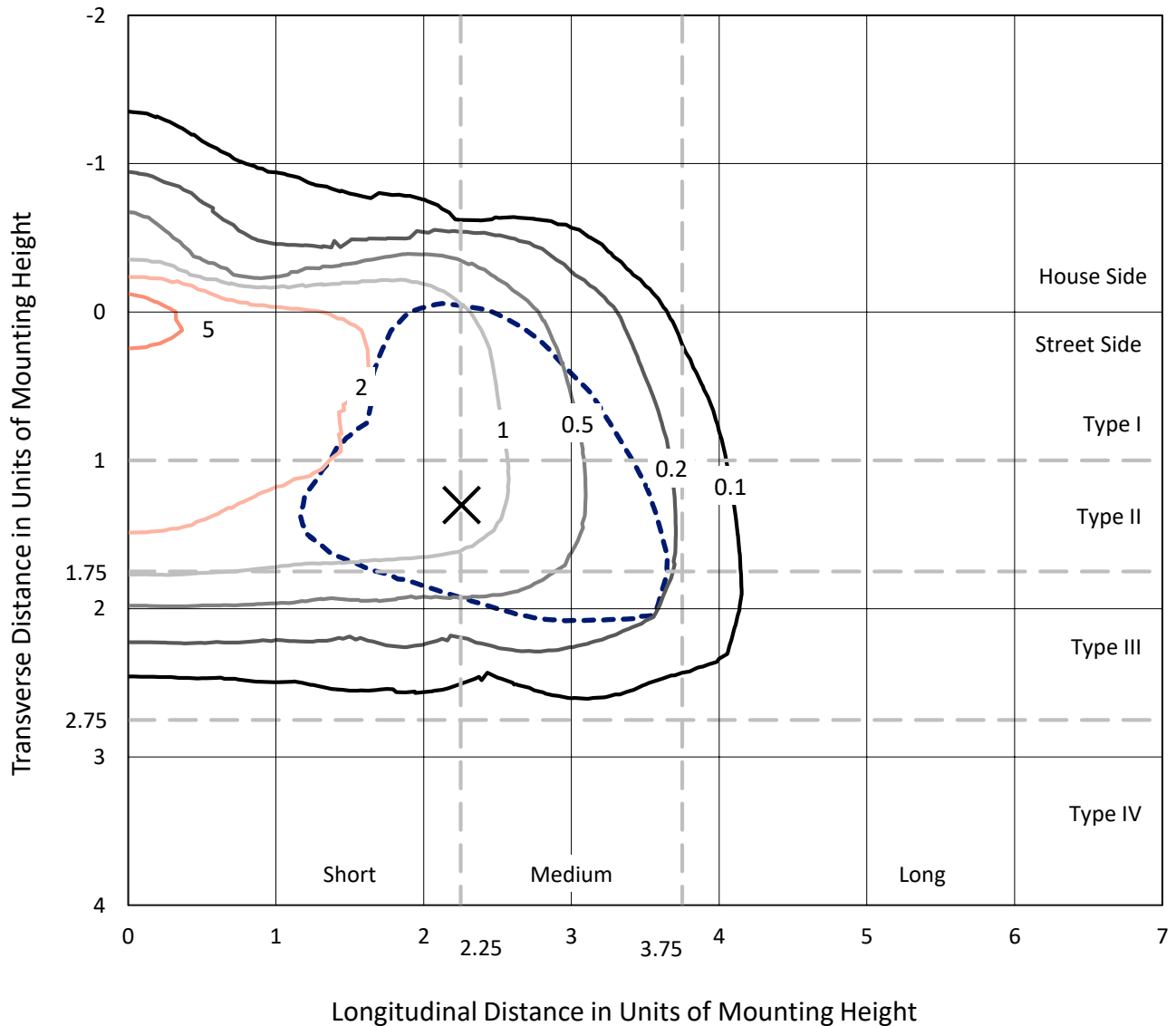
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

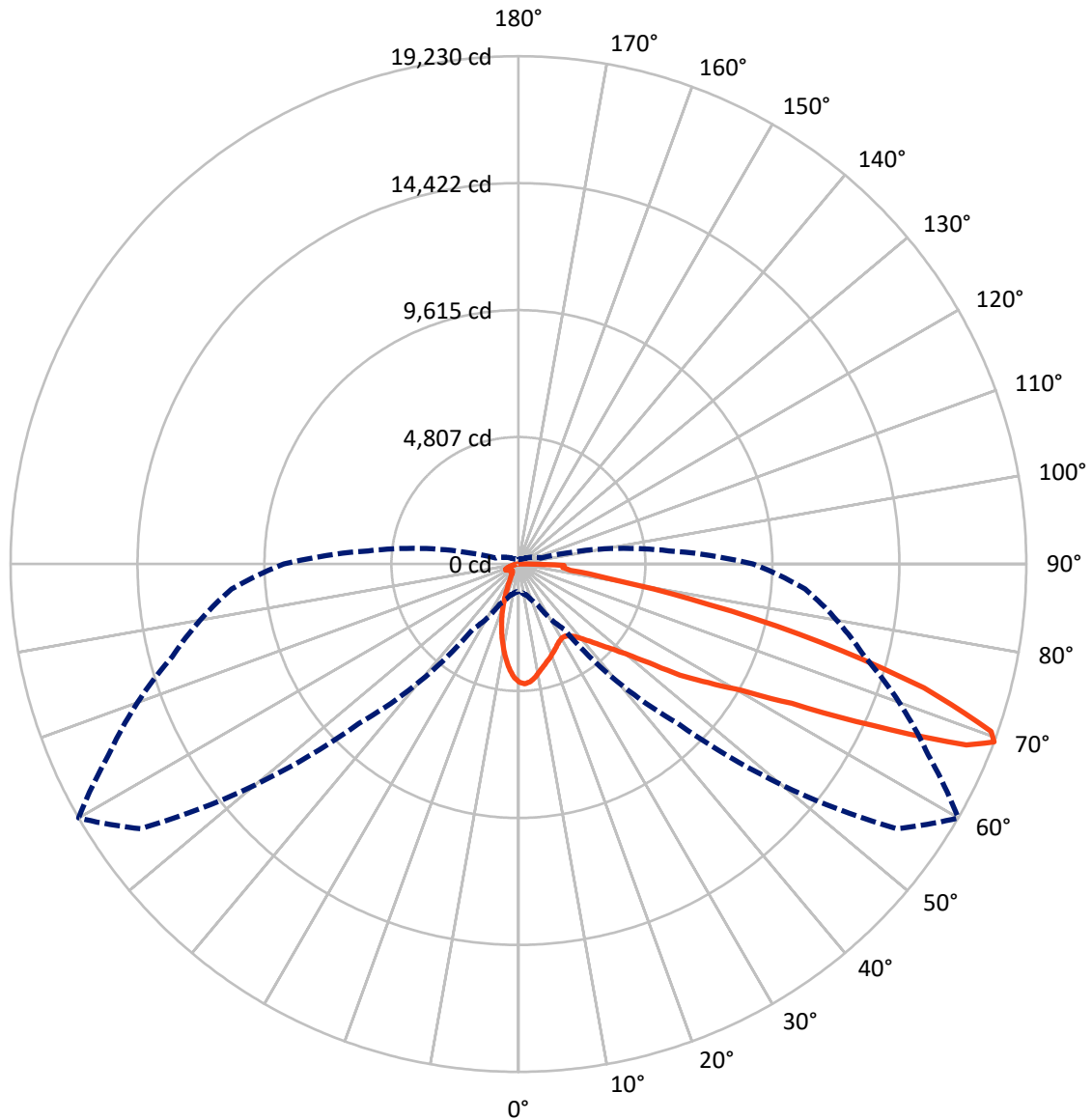
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2500.7   | 0.0    | 2500.7  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 15076.9  | 0.0    | 15076.9 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 17577.6  | 0.0    | 17577.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 378.7   | 2.2       |
| 10°-20°   | 806.9   | 4.6       |
| 20°-30°   | 1028.1  | 5.8       |
| 30°-40°   | 1413.4  | 8.0       |
| 40°-50°   | 2293.4  | 13.0      |
| 50°-60°   | 3678.0  | 20.9      |
| 60°-70°   | 4895.1  | 27.8      |
| 70°-80°   | 2643.0  | 15.0      |
| 80°-90°   | 441.0   | 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°    | 17577.6 | 100.0     |
| 0°-180°   | 17577.6 | 100.0     |

**Coefficient of Utilization**



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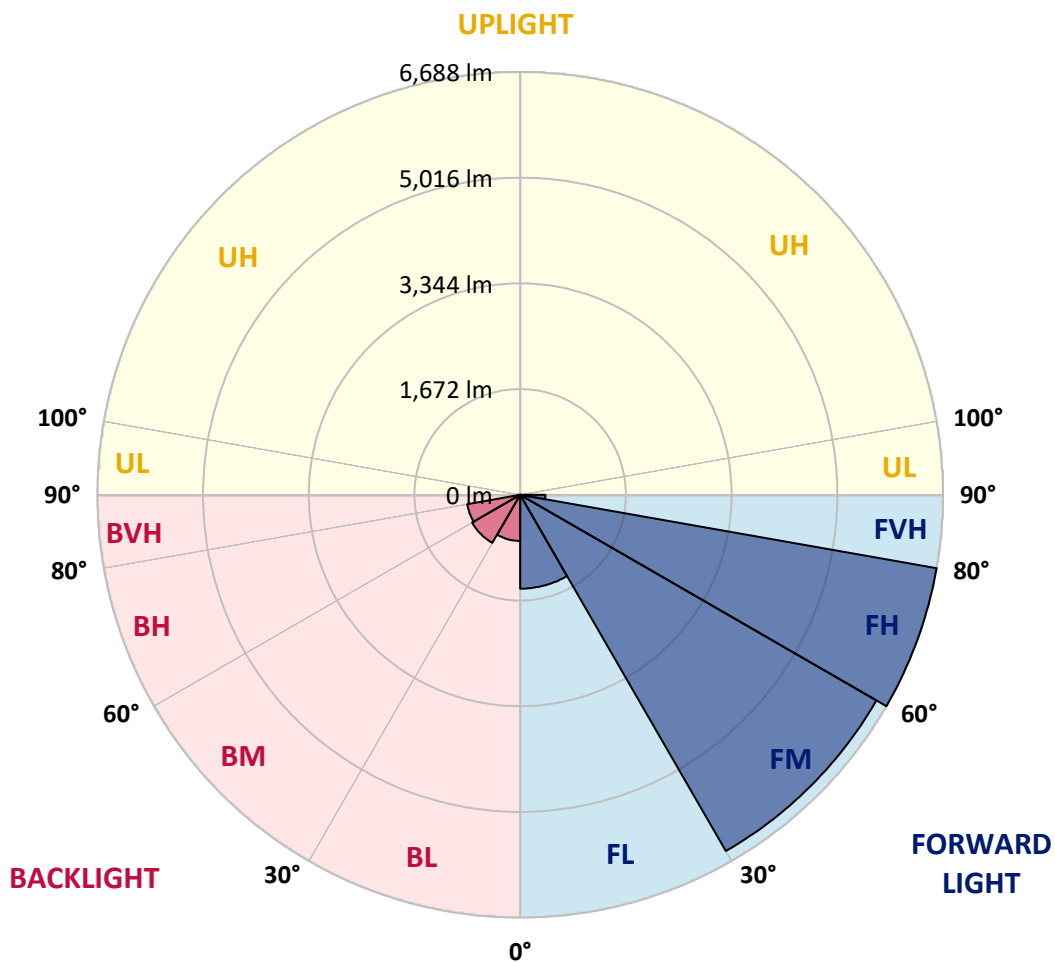
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1484.2 | 8.4       |                         |      |         |
| FM (30°-60°)   | 6506.2 | 37.0      |                         |      |         |
| FH (60°-80°)   | 6687.9 | 38.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 398.5  | 2.3       |                         |      | G3/500  |
| BL (0°-30°)    | 729.5  | 4.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 878.6  | 5.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 850.2  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 42.5   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4479.1 | 4479.1 | 4479.1 | 4479.1 | 4479.1 | 4479.1  | 4479.1  | 4479.1  | 4479.1  | 4479.1  | 4479.1  |
| 2.5°  | 4570.8 | 4580.9 | 4576.7 | 4574.1 | 4581.8 | 4569.9  | 4545.3  | 4537.6  | 4525.7  | 4497.7  | 4450.1  |
| 5°    | 4399.3 | 4429.8 | 4428.1 | 4451.0 | 4489.3 | 4499.4  | 4488.4  | 4490.1  | 4468.0  | 4433.2  | 4354.2  |
| 7.5°  | 4102.9 | 4115.6 | 4122.5 | 4172.5 | 4242.1 | 4298.2  | 4345.8  | 4361.0  | 4350.8  | 4321.1  | 4219.3  |
| 10°   | 3797.2 | 3807.3 | 3823.5 | 3882.1 | 3970.5 | 4047.7  | 4137.7  | 4189.5  | 4211.6  | 4206.5  | 4092.8  |
| 12.5° | 3534.9 | 3545.0 | 3566.2 | 3632.5 | 3737.8 | 3833.0  | 3963.6  | 4028.2  | 4080.9  | 4112.2  | 3989.9  |
| 15°   | 3299.6 | 3321.7 | 3342.1 | 3418.5 | 3536.5 | 3661.4  | 3809.1  | 3890.6  | 3972.1  | 4042.6  | 3899.1  |
| 17.5° | 3116.2 | 3138.3 | 3150.2 | 3219.9 | 3345.5 | 3498.4  | 3671.5  | 3767.5  | 3869.4  | 3984.9  | 3809.1  |
| 20°   | 3010.1 | 3020.3 | 3015.2 | 3054.3 | 3167.2 | 3329.3  | 3534.9  | 3646.1  | 3769.2  | 3930.5  | 3719.0  |
| 22.5° | 2980.4 | 2981.2 | 2962.6 | 2958.3 | 3031.3 | 3168.0  | 3388.7  | 3523.8  | 3674.9  | 3894.9  | 3641.8  |
| 25°   | 3052.6 | 3050.0 | 2999.0 | 2957.4 | 2965.1 | 3044.9  | 3247.8  | 3404.9  | 3595.9  | 3887.2  | 3582.4  |
| 27.5° | 3213.0 | 3220.6 | 3145.1 | 3067.0 | 2989.7 | 2987.1  | 3140.8  | 3306.4  | 3531.5  | 3922.1  | 3556.9  |
| 30°   | 3438.1 | 3450.7 | 3370.1 | 3270.7 | 3125.6 | 3005.8  | 3099.2  | 3247.8  | 3491.5  | 3994.2  | 3552.7  |
| 32.5° | 3684.3 | 3697.9 | 3636.7 | 3532.3 | 3342.1 | 3121.3  | 3128.1  | 3252.9  | 3489.8  | 4095.2  | 3581.5  |
| 35°   | 3946.7 | 3962.0 | 3930.5 | 3842.2 | 3630.8 | 3334.5  | 3238.6  | 3335.2  | 3545.0  | 4249.7  | 3658.8  |
| 37.5° | 4239.6 | 4263.4 | 4271.8 | 4187.8 | 3962.0 | 3615.5  | 3419.4  | 3491.5  | 3669.8  | 4464.7  | 3800.6  |
| 40°   | 4661.6 | 4694.8 | 4692.1 | 4571.6 | 4341.5 | 3995.1  | 3698.8  | 3717.4  | 3864.3  | 4751.5  | 4027.3  |
| 42.5° | 5469.9 | 5476.7 | 5265.3 | 5003.0 | 4759.3 | 4394.2  | 4028.2  | 4012.9  | 4132.6  | 5115.1  | 4361.0  |
| 45°   | 6498.2 | 6470.3 | 5999.8 | 5492.9 | 5195.8 | 4852.6  | 4457.0  | 4382.3  | 4473.1  | 5558.2  | 4778.8  |
| 47.5° | 7351.6 | 7287.0 | 6692.6 | 5993.0 | 5657.7 | 5351.1  | 4960.5  | 4829.7  | 4879.8  | 6060.9  | 5318.8  |
| 50°   | 7647.9 | 7599.5 | 7107.0 | 6409.0 | 6094.9 | 5959.0  | 5580.3  | 5395.2  | 5408.8  | 6660.5  | 5951.4  |
| 52.5° | 7584.2 | 7577.4 | 7248.8 | 6683.3 | 6504.2 | 6597.6  | 6458.4  | 6207.8  | 6075.4  | 7326.2  | 6634.1  |
| 55°   | 7433.9 | 7448.4 | 7329.5 | 7002.7 | 6972.1 | 7214.1  | 7605.4  | 7420.4  | 7008.6  | 7997.8  | 7339.7  |
| 57.5° | 6911.7 | 6949.1 | 7210.7 | 7404.2 | 7725.1 | 8085.1  | 8529.4  | 8476.7  | 8013.1  | 8723.7  | 8178.6  |
| 60°   | 5568.5 | 5655.0 | 6356.3 | 7326.2 | 8500.4 | 9626.4  | 9825.0  | 9702.8  | 9049.0  | 9624.6  | 9286.7  |
| 62.5° | 3901.6 | 3991.7 | 4825.4 | 6342.8 | 8373.1 | 11367.0 | 12141.4 | 11614.1 | 10536.6 | 10951.8 | 10720.8 |
| 65°   | 2088.8 | 2132.0 | 2768.9 | 4401.0 | 7068.8 | 11726.1 | 15526.9 | 14724.5 | 12892.0 | 12588.1 | 11947.8 |
| 67.5° | 1152.2 | 1176.0 | 1419.8 | 2222.2 | 4527.4 | 10326.0 | 17683.5 | 18289.8 | 15835.8 | 13677.4 | 11724.5 |
| 69°   | 1041.9 | 1063.9 | 1223.6 | 1682.9 | 3029.6 | 8537.7  | 17473.0 | 19229.7 | 17126.5 | 13569.6 | 10899.1 |
| 70°   | 1019.0 | 1039.3 | 1182.8 | 1551.4 | 2452.3 | 7037.4  | 16767.4 | 18989.5 | 17433.9 | 13183.2 | 10179.1 |
| 72.5° | 917.0  | 939.1  | 1078.4 | 1393.4 | 2095.6 | 3508.6  | 13281.8 | 16055.7 | 15828.3 | 11430.7 | 7721.0  |
| 75°   | 855.1  | 875.3  | 1111.5 | 1364.5 | 2006.4 | 2220.3  | 8756.0  | 11833.3 | 11635.3 | 7996.0  | 4163.3  |
| 77.5° | 366.0  | 364.3  | 515.3  | 1154.8 | 2036.1 | 2149.9  | 4704.9  | 7392.4  | 6744.5  | 3417.6  | 1195.6  |
| 80°   | 244.5  | 240.3  | 244.5  | 339.7  | 1867.2 | 2161.8  | 2465.0  | 3752.2  | 2834.3  | 871.3   | 589.2   |
| 82.5° | 210.6  | 207.1  | 214.8  | 207.1  | 656.3  | 2467.5  | 2095.6  | 1995.4  | 1347.5  | 495.1   | 292.0   |
| 85°   | 141.8  | 135.8  | 185.0  | 186.0  | 310.0  | 2192.4  | 2360.5  | 1685.5  | 1090.3  | 293.8   | 144.3   |
| 87.5° | 68.0   | 66.2   | 107.8  | 131.6  | 181.7  | 890.7   | 2648.3  | 1727.1  | 1099.5  | 150.3   | 68.8    |
| 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°    | 4479.1  | 4479.1 | 4479.1 | 4479.1 | 4479.1 | 4479.1 | 4479.1 | 4479.1 | 4479.1 | 4479.1 | 4479.1 |
| 2.5°  | 4435.7  | 4401.0 | 4367.0 | 4326.2 | 4283.7 | 4236.2 | 4212.4 | 4188.7 | 4182.7 | 4175.9 | 4152.2 |
| 5°    | 4313.4  | 4264.2 | 4179.2 | 4085.9 | 3987.4 | 3891.5 | 3818.4 | 3772.6 | 3737.8 | 3720.0 | 3688.5 |
| 7.5°  | 4155.5  | 4083.3 | 3934.8 | 3773.5 | 3607.8 | 3456.8 | 3326.0 | 3243.6 | 3165.5 | 3128.9 | 3087.3 |
| 10°   | 4005.2  | 3897.4 | 3666.4 | 3428.7 | 3190.9 | 2962.6 | 2747.8 | 2595.7 | 2460.7 | 2385.1 | 2331.7 |
| 12.5° | 3876.2  | 3728.5 | 3408.4 | 3086.5 | 2760.4 | 2435.3 | 2113.4 | 1860.3 | 1648.9 | 1537.8 | 1480.8 |
| 15°   | 3750.6  | 3572.2 | 3162.9 | 2754.5 | 2335.9 | 1893.5 | 1470.6 | 1183.6 | 1008.8 | 939.1  | 915.4  |
| 17.5° | 3636.7  | 3408.4 | 2916.6 | 2420.0 | 1897.8 | 1362.8 | 988.4  | 830.5  | 763.4  | 740.4  | 732.8  |
| 20°   | 3513.6  | 3242.7 | 2661.1 | 2070.1 | 1440.9 | 952.7  | 771.8  | 702.2  | 675.0  | 668.2  | 664.9  |
| 22.5° | 3394.6  | 3079.7 | 2416.6 | 1695.7 | 1035.0 | 735.4  | 663.2  | 634.2  | 630.0  | 636.0  | 636.0  |
| 25°   | 3293.7  | 2933.7 | 2152.5 | 1304.2 | 759.9  | 619.0  | 593.5  | 586.7  | 602.9  | 625.0  | 629.3  |
| 27.5° | 3218.1  | 2814.0 | 1871.4 | 962.9  | 605.4  | 538.3  | 537.4  | 548.5  | 588.5  | 630.9  | 639.3  |
| 30°   | 3166.4  | 2700.2 | 1570.8 | 694.6  | 507.7  | 473.7  | 487.4  | 511.2  | 569.8  | 630.0  | 646.2  |
| 32.5° | 3140.0  | 2616.1 | 1257.6 | 537.4  | 434.8  | 416.1  | 439.0  | 467.8  | 525.6  | 581.6  | 602.9  |
| 35°   | 3160.5  | 2554.2 | 962.0  | 448.3  | 383.8  | 369.4  | 393.2  | 421.2  | 455.2  | 478.9  | 495.1  |
| 37.5° | 3236.8  | 2529.5 | 726.0  | 401.6  | 349.0  | 335.4  | 354.1  | 370.2  | 383.8  | 390.6  | 398.2  |
| 40°   | 3401.6  | 2555.8 | 581.6  | 377.8  | 329.4  | 312.5  | 320.1  | 326.0  | 334.6  | 341.3  | 344.7  |
| 42.5° | 3644.4  | 2634.8 | 521.3  | 368.5  | 319.2  | 294.7  | 293.0  | 295.4  | 306.6  | 319.2  | 321.8  |
| 45°   | 3984.0  | 2774.0 | 517.2  | 374.4  | 314.1  | 280.2  | 272.6  | 276.0  | 293.0  | 312.5  | 315.9  |
| 47.5° | 4417.9  | 2986.3 | 551.1  | 392.2  | 318.4  | 272.6  | 259.8  | 264.1  | 285.2  | 311.6  | 315.9  |
| 50°   | 4943.6  | 3282.7 | 607.9  | 418.6  | 337.1  | 274.2  | 255.5  | 258.2  | 280.2  | 309.1  | 313.3  |
| 52.5° | 5564.2  | 3703.1 | 670.0  | 444.0  | 356.6  | 285.2  | 259.0  | 253.1  | 273.3  | 299.0  | 304.0  |
| 55°   | 6254.5  | 4242.1 | 733.6  | 467.0  | 366.8  | 299.0  | 265.7  | 246.3  | 260.7  | 281.9  | 286.2  |
| 57.5° | 7102.0  | 4996.2 | 844.0  | 489.1  | 373.5  | 308.2  | 272.6  | 239.5  | 244.5  | 259.8  | 263.2  |
| 60°   | 8249.1  | 6062.7 | 1038.5 | 525.6  | 388.9  | 311.6  | 271.7  | 233.5  | 228.5  | 236.9  | 238.6  |
| 62.5° | 9623.8  | 7220.8 | 1200.6 | 571.4  | 414.3  | 314.1  | 266.6  | 229.2  | 214.8  | 214.8  | 216.6  |
| 65°   | 10439.8 | 7530.7 | 1110.6 | 609.6  | 435.6  | 311.6  | 260.7  | 225.0  | 204.7  | 195.2  | 196.1  |
| 67.5° | 9747.8  | 6623.1 | 951.8  | 617.4  | 434.8  | 299.7  | 251.3  | 217.4  | 194.5  | 180.1  | 179.1  |
| 69°   | 8880.8  | 5714.5 | 880.5  | 596.9  | 414.3  | 284.4  | 239.5  | 208.9  | 186.9  | 171.5  | 170.7  |
| 70°   | 8182.0  | 5160.0 | 833.8  | 574.8  | 392.2  | 273.3  | 230.1  | 201.2  | 180.9  | 166.4  | 164.8  |
| 72.5° | 5948.8  | 3381.1 | 712.4  | 494.2  | 323.5  | 229.2  | 198.8  | 176.6  | 161.3  | 152.9  | 151.1  |
| 75°   | 2972.7  | 1612.4 | 578.2  | 400.8  | 247.9  | 183.4  | 163.1  | 147.7  | 140.1  | 138.4  | 137.5  |
| 77.5° | 976.4   | 738.7  | 413.5  | 299.0  | 184.2  | 143.4  | 131.6  | 120.6  | 118.9  | 124.0  | 122.3  |
| 80°   | 536.7   | 429.6  | 262.3  | 197.9  | 125.6  | 105.3  | 103.6  | 97.7   | 100.2  | 108.7  | 107.0  |
| 82.5° | 273.3   | 223.3  | 162.1  | 118.9  | 84.9   | 75.6   | 82.4   | 79.0   | 82.4   | 90.0   | 89.1   |
| 85°   | 135.1   | 122.3  | 102.7  | 72.2   | 56.0   | 48.4   | 58.6   | 61.1   | 62.9   | 68.8   | 68.8   |
| 87.5° | 78.1    | 72.2   | 54.3   | 34.0   | 28.0   | 25.4   | 34.0   | 33.1   | 39.0   | 42.5   | 41.6   |
| 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)