

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: P266913

Luminaire Tested: **GAN-AF-05-LED-U-SL3-7027-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266913  
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-SL3-7027-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 17031.6 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 162  
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

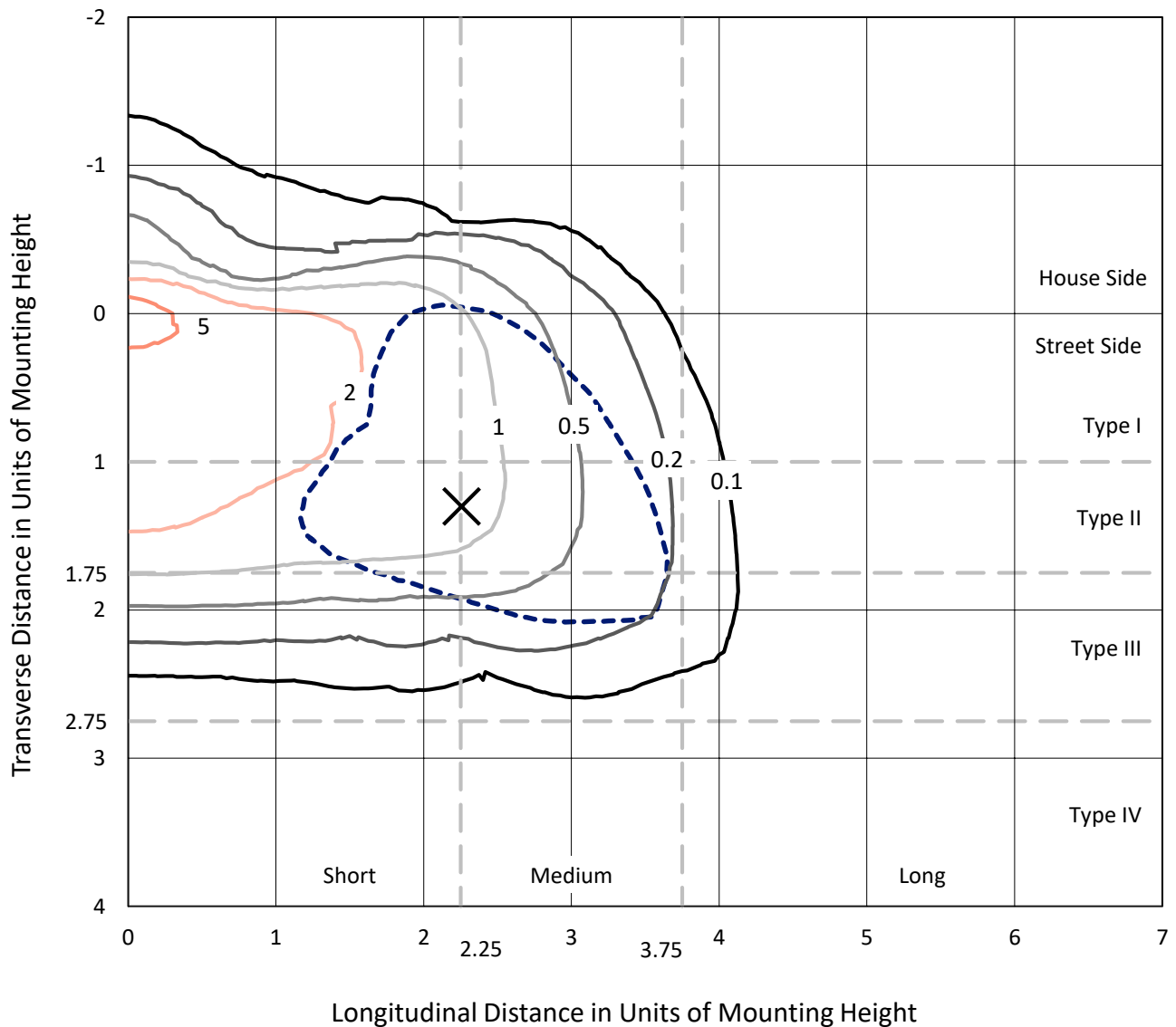


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

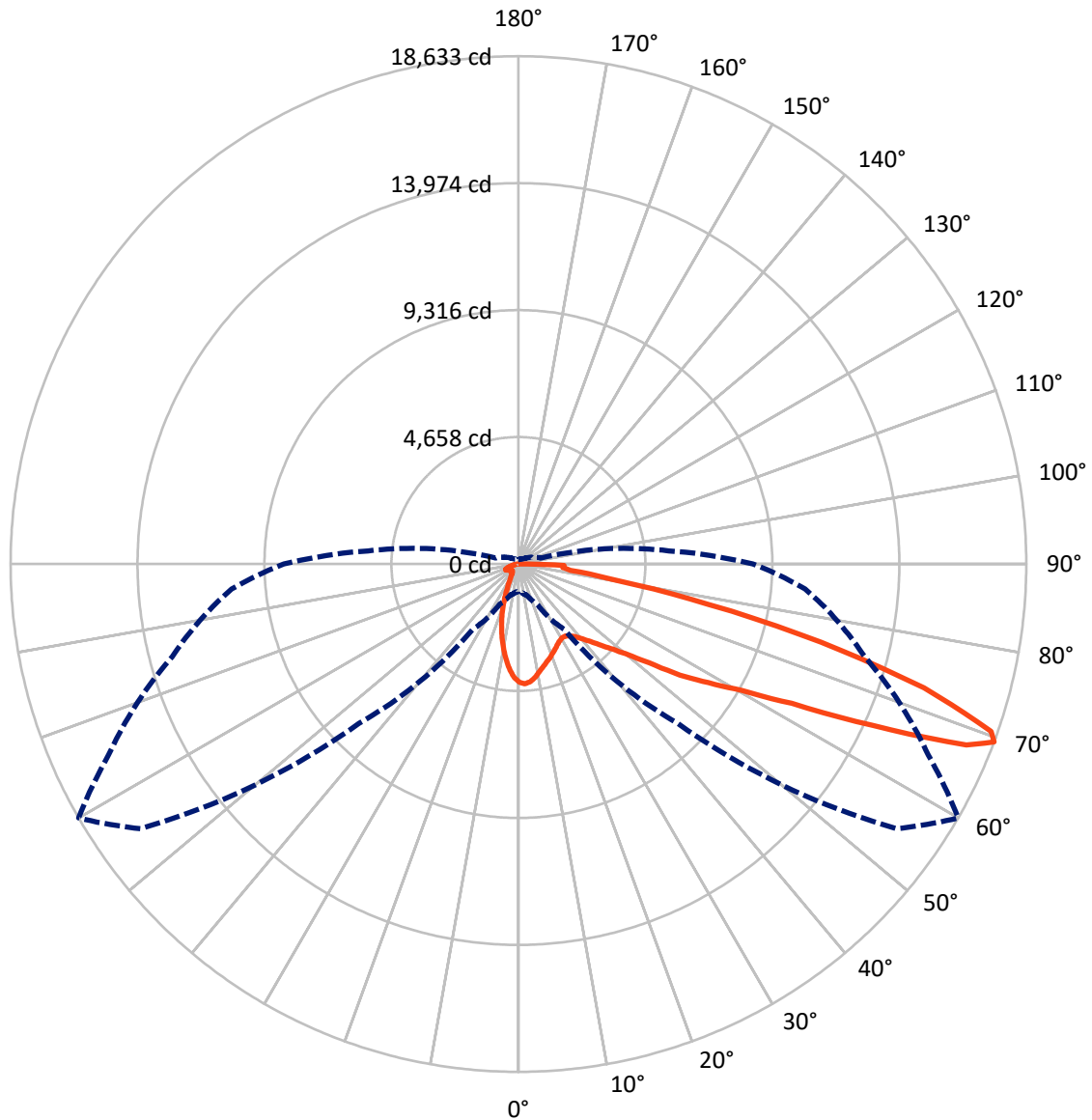


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - Non-Cutoff

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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    | 2423.1   | 0.0    | 2423.1  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 14608.6  | 0.0    | 14608.6 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 17031.6  | 0.0    | 17031.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 367.0   | 2.2       |
| 10°-20°   | 781.8   | 4.6       |
| 20°-30°   | 996.2   | 5.8       |
| 30°-40°   | 1369.5  | 8.0       |
| 40°-50°   | 2222.1  | 13.0      |
| 50°-60°   | 3563.7  | 20.9      |
| 60°-70°   | 4743.1  | 27.8      |
| 70°-80°   | 2560.9  | 15.0      |
| 80°-90°   | 427.3   | 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°    | 17031.6 | 100.0     |
| 0°-180°   | 17031.6 | 100.0     |

**Coefficient of Utilization**



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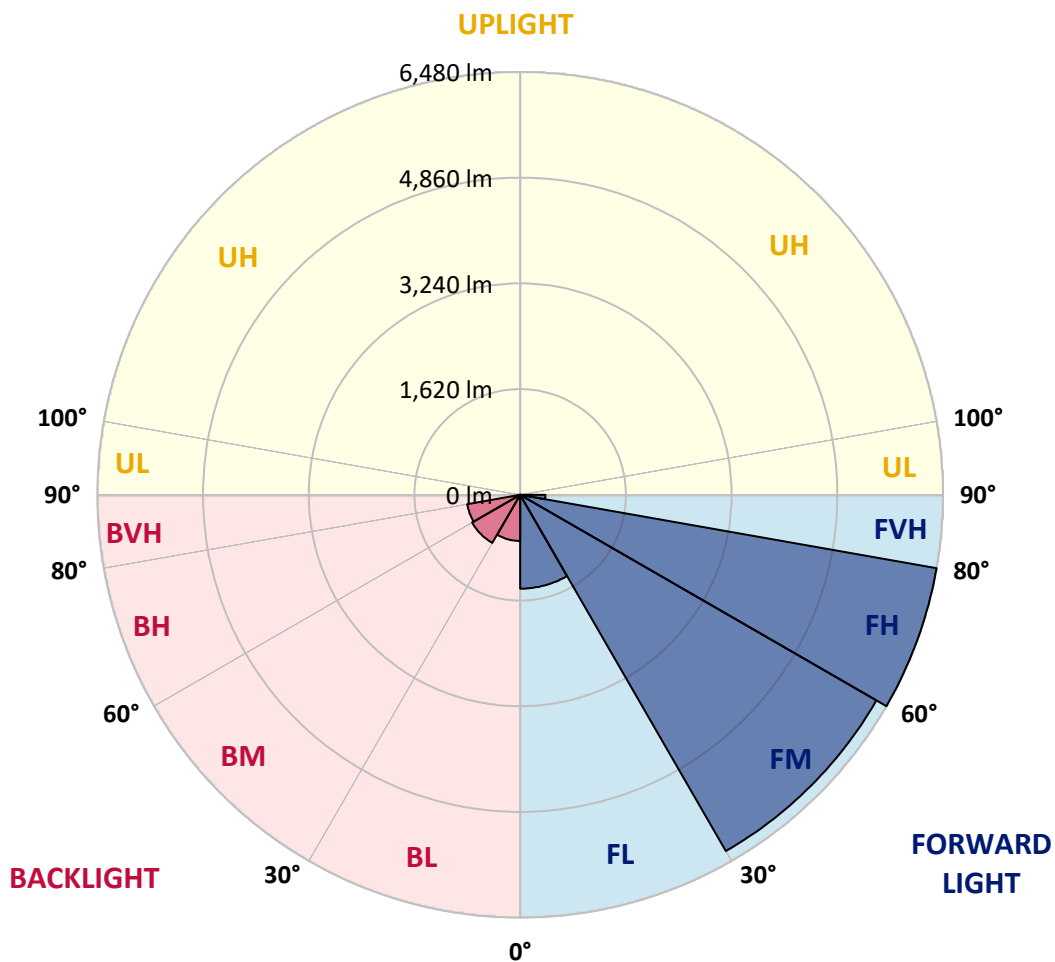
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1438.1 | 8.4       |                         |      |         |
| FM (30°-60°)   | 6304.1 | 37.0      |                         |      |         |
| FH (60°-80°)   | 6480.2 | 38.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 386.2  | 2.3       |                         |      | G3/500  |
| BL (0°-30°)    | 706.9  | 4.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 851.3  | 5.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 823.8  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 41.2   | 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°    | 4339.9 | 4339.9 | 4339.9 | 4339.9 | 4339.9 | 4339.9  | 4339.9  | 4339.9  | 4339.9  | 4339.9  | 4339.9  |
| 2.5°  | 4428.7 | 4438.6 | 4434.6 | 4432.1 | 4439.5 | 4427.9  | 4404.1  | 4396.7  | 4385.2  | 4357.9  | 4312.0  |
| 5°    | 4262.5 | 4292.2 | 4290.6 | 4312.8 | 4349.9 | 4359.7  | 4349.0  | 4350.6  | 4329.2  | 4295.4  | 4219.0  |
| 7.5°  | 3975.4 | 3987.8 | 3994.4 | 4042.9 | 4110.4 | 4164.7  | 4210.7  | 4225.5  | 4215.7  | 4186.9  | 4088.1  |
| 10°   | 3679.3 | 3689.1 | 3704.8 | 3761.6 | 3847.1 | 3922.0  | 4009.1  | 4059.4  | 4080.8  | 4075.8  | 3965.6  |
| 12.5° | 3425.1 | 3434.8 | 3455.5 | 3519.6 | 3621.6 | 3713.9  | 3840.6  | 3903.0  | 3954.1  | 3984.5  | 3866.0  |
| 15°   | 3197.2 | 3218.5 | 3238.3 | 3312.3 | 3426.7 | 3547.6  | 3690.7  | 3769.7  | 3848.8  | 3917.0  | 3778.0  |
| 17.5° | 3019.5 | 3040.9 | 3052.4 | 3119.9 | 3241.5 | 3389.7  | 3557.5  | 3650.4  | 3749.2  | 3861.1  | 3690.7  |
| 20°   | 2916.5 | 2926.5 | 2921.6 | 2959.3 | 3068.8 | 3226.0  | 3425.1  | 3532.9  | 3652.1  | 3808.5  | 3603.6  |
| 22.5° | 2887.8 | 2888.6 | 2870.5 | 2866.4 | 2937.2 | 3069.6  | 3283.6  | 3414.4  | 3560.8  | 3773.9  | 3528.7  |
| 25°   | 2957.7 | 2955.2 | 2905.8 | 2865.7 | 2873.0 | 2950.4  | 3146.9  | 3299.1  | 3484.3  | 3766.5  | 3471.1  |
| 27.5° | 3113.3 | 3120.6 | 3047.4 | 2971.8 | 2896.9 | 2894.3  | 3043.3  | 3203.7  | 3421.7  | 3800.2  | 3446.4  |
| 30°   | 3331.3 | 3343.6 | 3265.3 | 3169.2 | 3028.5 | 2912.5  | 3002.9  | 3146.9  | 3383.0  | 3870.2  | 3442.3  |
| 32.5° | 3569.9 | 3583.0 | 3523.8 | 3422.6 | 3238.3 | 3024.4  | 3030.9  | 3152.0  | 3381.4  | 3968.1  | 3470.3  |
| 35°   | 3824.1 | 3838.8 | 3808.5 | 3722.8 | 3518.0 | 3230.8  | 3137.9  | 3231.7  | 3434.8  | 4117.8  | 3545.3  |
| 37.5° | 4107.9 | 4130.9 | 4139.2 | 4057.7 | 3838.8 | 3503.2  | 3313.2  | 3383.0  | 3555.9  | 4326.0  | 3682.5  |
| 40°   | 4516.8 | 4548.8 | 4546.4 | 4429.6 | 4206.7 | 3870.9  | 3583.8  | 3601.9  | 3744.2  | 4604.1  | 3902.2  |
| 42.5° | 5300.1 | 5306.6 | 5101.7 | 4847.6 | 4611.4 | 4257.6  | 3903.0  | 3888.3  | 4004.3  | 4956.2  | 4225.5  |
| 45°   | 6296.4 | 6269.2 | 5813.4 | 5322.3 | 5034.3 | 4701.9  | 4318.5  | 4246.1  | 4334.1  | 5385.6  | 4630.4  |
| 47.5° | 7123.2 | 7060.7 | 6484.8 | 5806.9 | 5481.8 | 5184.8  | 4806.4  | 4679.7  | 4728.3  | 5872.7  | 5153.5  |
| 50°   | 7410.4 | 7363.4 | 6886.2 | 6210.1 | 5905.5 | 5773.9  | 5407.0  | 5227.6  | 5240.8  | 6453.6  | 5766.5  |
| 52.5° | 7348.7 | 7342.0 | 7023.7 | 6475.7 | 6302.1 | 6392.7  | 6257.8  | 6015.1  | 5886.7  | 7098.5  | 6428.0  |
| 55°   | 7203.0 | 7217.1 | 7101.8 | 6785.1 | 6755.4 | 6989.9  | 7369.2  | 7189.9  | 6790.8  | 7749.3  | 7111.7  |
| 57.5° | 6697.0 | 6733.2 | 6986.7 | 7174.3 | 7485.2 | 7834.1  | 8264.3  | 8213.4  | 7764.1  | 8452.8  | 7924.6  |
| 60°   | 5395.5 | 5479.4 | 6159.0 | 7098.5 | 8236.4 | 9327.3  | 9519.9  | 9401.4  | 8767.8  | 9325.7  | 8998.2  |
| 62.5° | 3780.4 | 3867.7 | 4675.6 | 6145.8 | 8113.0 | 11013.9 | 11764.3 | 11253.3 | 10209.2 | 10611.6 | 10387.8 |
| 65°   | 2023.9 | 2065.9 | 2683.0 | 4264.3 | 6849.2 | 11361.9 | 15044.5 | 14267.1 | 12491.7 | 12197.0 | 11576.6 |
| 67.5° | 1116.5 | 1139.5 | 1375.7 | 2153.1 | 4386.9 | 10005.2 | 17134.2 | 17721.8 | 15343.9 | 13252.7 | 11360.3 |
| 69°   | 1009.4 | 1030.8 | 1185.6 | 1630.7 | 2935.5 | 8272.6  | 16930.3 | 18632.5 | 16594.6 | 13148.1 | 10560.7 |
| 70°   | 987.2  | 1007.0 | 1146.1 | 1503.1 | 2376.0 | 6818.9  | 16246.6 | 18399.7 | 16892.4 | 12773.8 | 9862.9  |
| 72.5° | 888.6  | 910.0  | 1044.9 | 1350.2 | 2030.4 | 3399.5  | 12869.2 | 15557.0 | 15336.7 | 11075.7 | 7481.2  |
| 75°   | 828.4  | 848.2  | 1077.0 | 1322.1 | 1944.1 | 2151.4  | 8484.0  | 11465.6 | 11273.9 | 7747.7  | 4033.8  |
| 77.5° | 354.7  | 352.9  | 499.4  | 1118.8 | 1972.9 | 2083.2  | 4558.8  | 7162.7  | 6535.0  | 3311.5  | 1158.5  |
| 80°   | 237.0  | 232.8  | 237.0  | 329.0  | 1809.1 | 2094.7  | 2388.5  | 3635.7  | 2746.3  | 844.1   | 571.1   |
| 82.5° | 204.1  | 200.7  | 208.1  | 200.7  | 636.0  | 2390.8  | 2030.4  | 1933.4  | 1305.6  | 479.6   | 283.1   |
| 85°   | 137.4  | 131.6  | 179.3  | 180.2  | 300.4  | 2124.3  | 2287.3  | 1633.1  | 1056.3  | 284.7   | 139.9   |
| 87.5° | 65.8   | 64.1   | 104.6  | 127.5  | 176.1  | 863.0   | 2566.1  | 1673.5  | 1065.4  | 145.6   | 66.7    |
| 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°    | 4339.9  | 4339.9 | 4339.9 | 4339.9 | 4339.9 | 4339.9 | 4339.9 | 4339.9 | 4339.9 | 4339.9 | 4339.9 |
| 2.5°  | 4298.0  | 4264.3 | 4231.3 | 4191.9 | 4150.7 | 4104.6 | 4081.5 | 4058.5 | 4052.9 | 4046.2 | 4023.1 |
| 5°    | 4179.5  | 4131.8 | 4049.5 | 3959.0 | 3863.6 | 3770.5 | 3699.8 | 3655.5 | 3621.6 | 3604.4 | 3573.9 |
| 7.5°  | 4026.5  | 3956.6 | 3812.5 | 3656.2 | 3495.8 | 3349.3 | 3222.7 | 3142.8 | 3067.2 | 3031.8 | 2991.4 |
| 10°   | 3880.9  | 3776.4 | 3552.5 | 3322.2 | 3091.8 | 2870.5 | 2662.3 | 2515.2 | 2384.3 | 2311.1 | 2259.2 |
| 12.5° | 3755.8  | 3612.7 | 3302.4 | 2990.6 | 2674.8 | 2359.6 | 2047.7 | 1802.5 | 1597.7 | 1490.0 | 1434.9 |
| 15°   | 3634.1  | 3461.2 | 3064.7 | 2669.0 | 2263.3 | 1834.7 | 1425.0 | 1146.9 | 977.4  | 910.0  | 886.8  |
| 17.5° | 3523.8  | 3302.4 | 2826.1 | 2344.8 | 1838.8 | 1320.5 | 957.7  | 804.6  | 739.7  | 717.4  | 710.0  |
| 20°   | 3404.4  | 3142.0 | 2578.4 | 2005.8 | 1396.1 | 923.1  | 747.8  | 680.3  | 654.1  | 647.5  | 644.3  |
| 22.5° | 3289.4  | 2984.1 | 2341.5 | 1643.0 | 1002.9 | 712.4  | 642.6  | 614.6  | 610.5  | 616.2  | 616.2  |
| 25°   | 3191.4  | 2842.5 | 2085.7 | 1263.7 | 736.3  | 599.8  | 575.0  | 568.4  | 584.2  | 605.5  | 609.6  |
| 27.5° | 3118.1  | 2726.5 | 1813.3 | 933.0  | 586.7  | 521.6  | 520.7  | 531.4  | 570.2  | 611.2  | 619.6  |
| 30°   | 3068.0  | 2616.4 | 1522.1 | 673.0  | 492.0  | 459.0  | 472.2  | 495.2  | 552.1  | 610.5  | 626.1  |
| 32.5° | 3042.5  | 2534.8 | 1218.6 | 520.7  | 421.2  | 403.1  | 425.3  | 453.4  | 509.2  | 563.5  | 584.2  |
| 35°   | 3062.2  | 2474.8 | 932.1  | 434.4  | 371.9  | 357.9  | 380.9  | 408.1  | 441.0  | 464.1  | 479.6  |
| 37.5° | 3136.3  | 2450.9 | 703.5  | 389.1  | 338.1  | 324.9  | 343.2  | 358.8  | 371.9  | 378.5  | 385.8  |
| 40°   | 3295.9  | 2476.4 | 563.5  | 366.1  | 319.2  | 302.8  | 310.2  | 315.9  | 324.2  | 330.8  | 334.0  |
| 42.5° | 3531.1  | 2553.0 | 505.1  | 357.0  | 309.3  | 285.5  | 283.9  | 286.3  | 297.0  | 309.3  | 311.8  |
| 45°   | 3860.2  | 2687.9 | 501.1  | 362.8  | 304.4  | 271.5  | 264.1  | 267.3  | 283.9  | 302.8  | 306.1  |
| 47.5° | 4280.8  | 2893.6 | 534.0  | 380.2  | 308.5  | 264.1  | 251.7  | 255.8  | 276.5  | 301.9  | 306.1  |
| 50°   | 4789.9  | 3180.7 | 589.1  | 405.7  | 326.7  | 265.8  | 247.7  | 250.1  | 271.5  | 299.4  | 303.5  |
| 52.5° | 5391.4  | 3587.9 | 649.1  | 430.3  | 345.6  | 276.5  | 250.9  | 245.1  | 264.9  | 289.7  | 294.6  |
| 55°   | 6060.2  | 4110.4 | 710.9  | 452.4  | 355.4  | 289.7  | 257.5  | 238.6  | 252.6  | 273.2  | 277.2  |
| 57.5° | 6881.3  | 4841.0 | 817.7  | 473.9  | 361.9  | 298.6  | 264.1  | 232.0  | 237.0  | 251.7  | 255.1  |
| 60°   | 7992.8  | 5874.3 | 1006.2 | 509.2  | 376.7  | 301.9  | 263.3  | 226.3  | 221.3  | 229.5  | 231.3  |
| 62.5° | 9324.9  | 6996.4 | 1163.3 | 553.6  | 401.5  | 304.4  | 258.4  | 222.2  | 208.1  | 208.1  | 209.8  |
| 65°   | 10115.5 | 7296.8 | 1076.1 | 590.7  | 422.1  | 301.9  | 252.6  | 218.0  | 198.3  | 189.3  | 190.0  |
| 67.5° | 9445.0  | 6417.3 | 922.3  | 598.1  | 421.2  | 290.4  | 243.5  | 210.7  | 188.5  | 174.5  | 173.6  |
| 69°   | 8605.0  | 5537.1 | 853.2  | 578.4  | 401.5  | 275.6  | 232.0  | 202.4  | 181.0  | 166.1  | 165.4  |
| 70°   | 7927.8  | 4999.7 | 807.9  | 556.9  | 380.2  | 264.9  | 223.0  | 195.0  | 175.2  | 161.2  | 159.5  |
| 72.5° | 5764.1  | 3276.1 | 690.3  | 478.8  | 313.5  | 222.2  | 192.5  | 171.1  | 156.3  | 148.1  | 146.5  |
| 75°   | 2880.3  | 1562.4 | 560.4  | 388.3  | 240.2  | 177.8  | 157.9  | 143.2  | 135.7  | 134.0  | 133.3  |
| 77.5° | 946.2   | 715.8  | 400.6  | 289.7  | 178.6  | 139.1  | 127.5  | 116.8  | 115.3  | 120.2  | 118.4  |
| 80°   | 519.9   | 416.4  | 254.2  | 191.7  | 121.8  | 102.0  | 100.4  | 94.6   | 97.0   | 105.3  | 103.7  |
| 82.5° | 264.9   | 216.4  | 157.2  | 115.3  | 82.3   | 73.2   | 79.8   | 76.5   | 79.8   | 87.2   | 86.3   |
| 85°   | 130.9   | 118.4  | 99.5   | 70.0   | 54.3   | 46.9   | 56.8   | 59.3   | 60.8   | 66.7   | 66.7   |
| 87.5° | 75.6    | 70.0   | 52.6   | 32.9   | 27.2   | 24.7   | 32.9   | 32.1   | 37.9   | 41.1   | 40.3   |
| 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)