

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: P191971

Luminaire Tested: **GAN-AF-03-LED-U-SL3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191971  
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-SL3-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 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: 18174 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

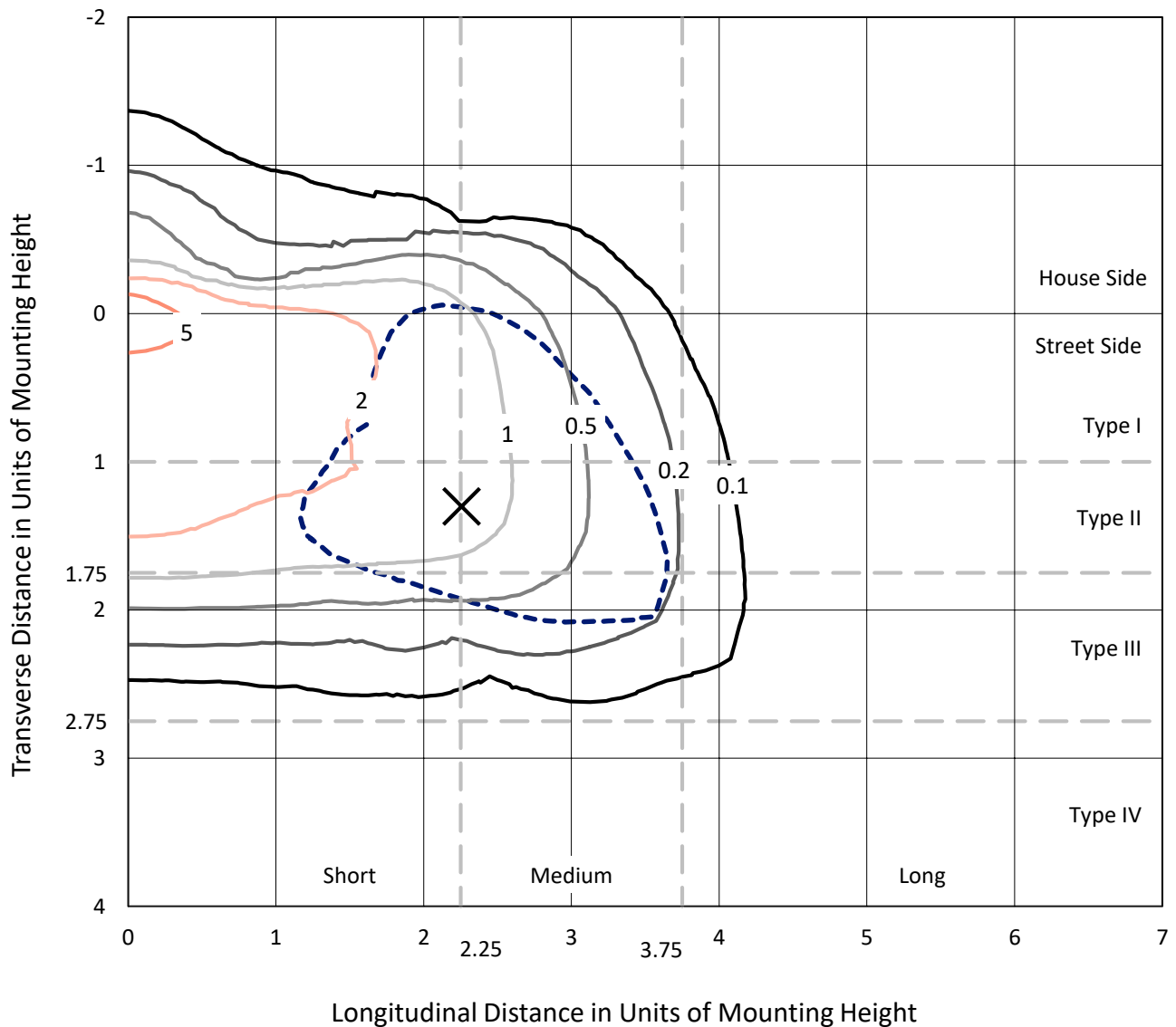
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

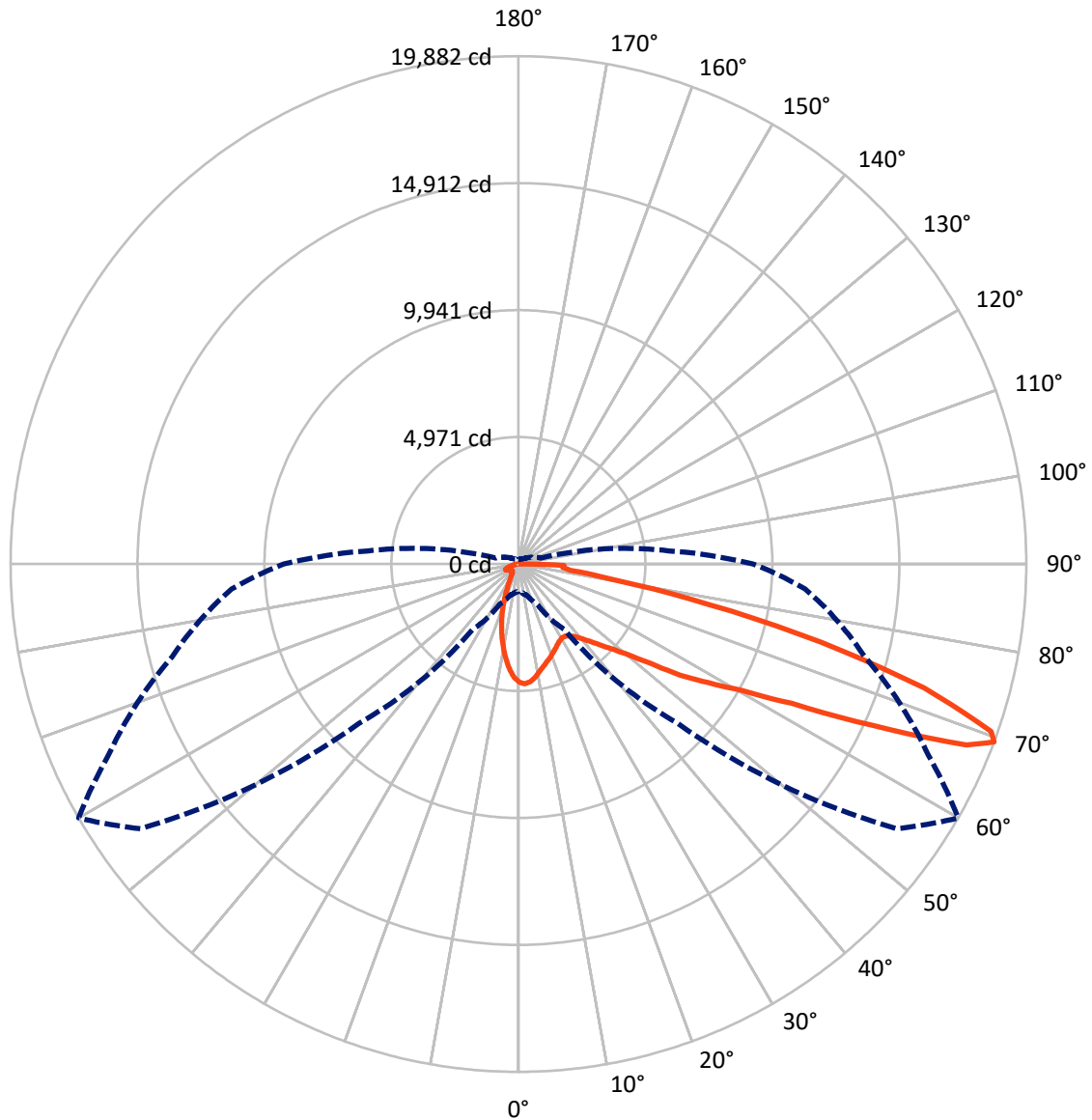
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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    | 2585.6   | 0.0    | 2585.6  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 15588.4  | 0.0    | 15588.4 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 18174.0  | 0.0    | 18174.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 391.6   | 2.2       |
| 10°-20°   | 834.3   | 4.6       |
| 20°-30°   | 1063.0  | 5.8       |
| 30°-40°   | 1461.4  | 8.0       |
| 40°-50°   | 2371.2  | 13.0      |
| 50°-60°   | 3802.8  | 20.9      |
| 60°-70°   | 5061.2  | 27.8      |
| 70°-80°   | 2732.7  | 15.0      |
| 80°-90°   | 456.0   | 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°    | 18174.0 | 100.0     |
| 0°-180°   | 18174.0 | 100.0     |

**Coefficient of Utilization**



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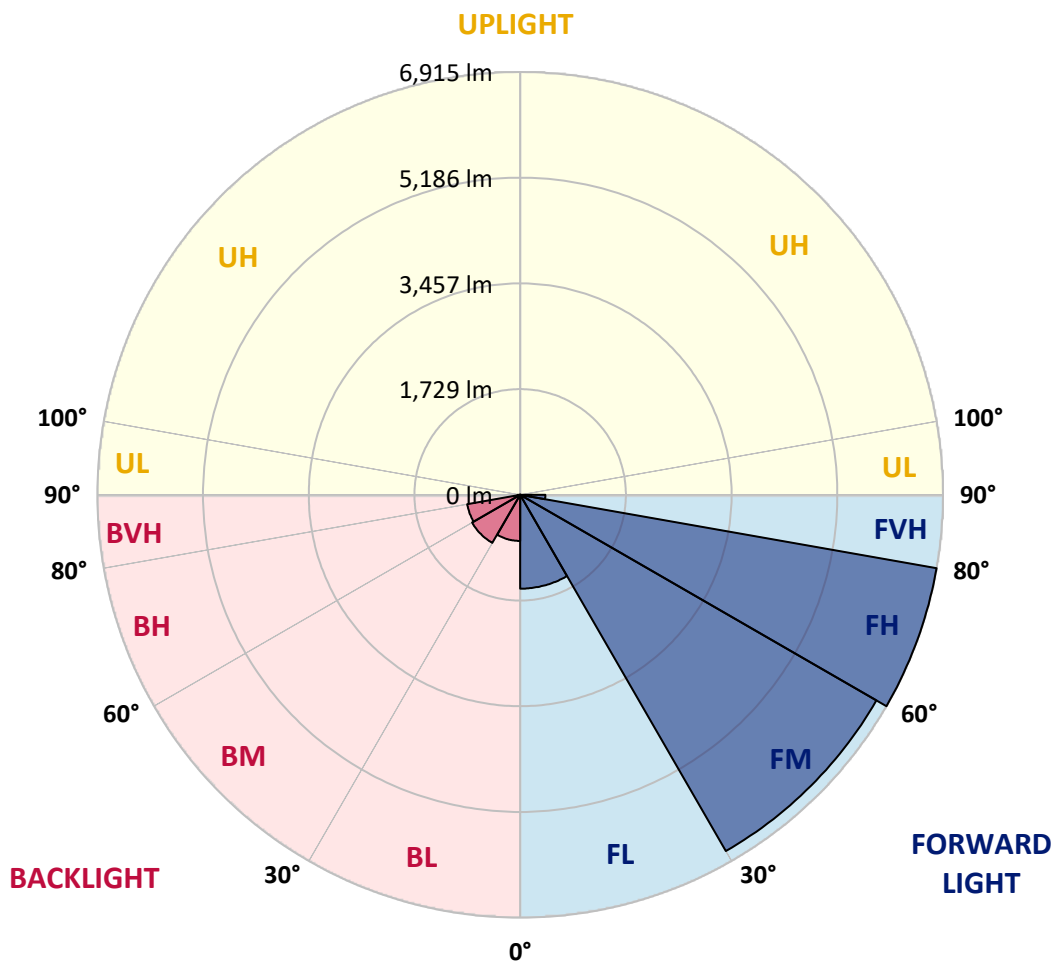
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1534.5 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 6727.0 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 6914.9 | 38.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 412.1  | 2.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 754.3  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 908.4  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 879.0  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 43.9   | 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°    | 4631.0 | 4631.0 | 4631.0 | 4631.0 | 4631.0 | 4631.0  | 4631.0  | 4631.0  | 4631.0  | 4631.0  | 4631.0  |
| 2.5°  | 4725.8 | 4736.4 | 4732.0 | 4729.3 | 4737.2 | 4724.9  | 4699.5  | 4691.6  | 4679.3  | 4650.3  | 4601.2  |
| 5°    | 4548.5 | 4580.1 | 4578.3 | 4602.0 | 4641.5 | 4652.1  | 4640.7  | 4642.4  | 4619.6  | 4583.6  | 4502.0  |
| 7.5°  | 4242.1 | 4255.3 | 4262.3 | 4314.1 | 4386.1 | 4444.0  | 4493.2  | 4509.0  | 4498.4  | 4467.7  | 4362.4  |
| 10°   | 3926.0 | 3936.6 | 3953.3 | 4013.8 | 4105.1 | 4185.0  | 4278.1  | 4331.6  | 4354.5  | 4349.2  | 4231.6  |
| 12.5° | 3654.8 | 3665.3 | 3687.3 | 3755.7 | 3864.6 | 3962.9  | 4098.1  | 4164.8  | 4219.3  | 4251.8  | 4125.3  |
| 15°   | 3411.6 | 3434.4 | 3455.5 | 3534.5 | 3656.5 | 3785.6  | 3938.3  | 4022.6  | 4106.9  | 4179.8  | 4031.4  |
| 17.5° | 3222.0 | 3244.8 | 3257.1 | 3329.1 | 3459.0 | 3617.0  | 3796.1  | 3895.3  | 4000.7  | 4120.1  | 3938.3  |
| 20°   | 3112.2 | 3122.8 | 3117.5 | 3157.9 | 3274.6 | 3442.3  | 3654.8  | 3769.8  | 3897.1  | 4063.9  | 3845.3  |
| 22.5° | 3081.5 | 3082.4 | 3063.1 | 3058.7 | 3134.2 | 3275.5  | 3503.8  | 3643.4  | 3799.6  | 4027.0  | 3765.4  |
| 25°   | 3156.1 | 3153.5 | 3100.8 | 3057.8 | 3065.7 | 3148.2  | 3358.0  | 3520.4  | 3718.0  | 4019.1  | 3703.9  |
| 27.5° | 3322.0 | 3329.9 | 3251.8 | 3171.0 | 3091.1 | 3088.5  | 3247.4  | 3418.6  | 3651.3  | 4055.1  | 3677.6  |
| 30°   | 3554.7 | 3567.9 | 3484.5 | 3381.7 | 3231.6 | 3107.8  | 3204.4  | 3358.0  | 3610.0  | 4129.7  | 3673.2  |
| 32.5° | 3809.3 | 3823.3 | 3760.1 | 3652.1 | 3455.5 | 3227.2  | 3234.2  | 3363.3  | 3608.2  | 4234.2  | 3703.1  |
| 35°   | 4080.6 | 4096.4 | 4063.9 | 3972.6 | 3754.0 | 3447.6  | 3348.4  | 3448.5  | 3665.3  | 4394.0  | 3782.9  |
| 37.5° | 4383.4 | 4408.0 | 4416.8 | 4329.9 | 4096.4 | 3738.2  | 3535.4  | 3610.0  | 3794.4  | 4616.1  | 3929.6  |
| 40°   | 4819.8 | 4854.0 | 4851.4 | 4726.7 | 4488.8 | 4130.6  | 3824.2  | 3843.5  | 3995.4  | 4912.8  | 4164.0  |
| 42.5° | 5655.5 | 5662.6 | 5444.0 | 5172.7 | 4920.7 | 4543.2  | 4164.8  | 4149.0  | 4272.8  | 5288.6  | 4509.0  |
| 45°   | 6718.7 | 6689.7 | 6203.4 | 5679.2 | 5372.0 | 5017.3  | 4608.2  | 4530.9  | 4624.9  | 5746.8  | 4940.9  |
| 47.5° | 7601.0 | 7534.3 | 6919.7 | 6196.3 | 5849.6 | 5532.6  | 5128.8  | 4993.6  | 5045.4  | 6266.6  | 5499.3  |
| 50°   | 7907.4 | 7857.4 | 7348.2 | 6626.5 | 6301.7 | 6161.2  | 5769.7  | 5578.3  | 5592.3  | 6886.4  | 6153.3  |
| 52.5° | 7841.6 | 7834.5 | 7494.8 | 6910.1 | 6724.8 | 6821.4  | 6677.4  | 6418.4  | 6281.5  | 7574.7  | 6859.2  |
| 55°   | 7686.2 | 7701.1 | 7578.2 | 7240.2 | 7208.6 | 7458.8  | 7863.5  | 7672.1  | 7246.3  | 8269.1  | 7588.7  |
| 57.5° | 7146.2 | 7184.9 | 7455.3 | 7655.4 | 7987.3 | 8359.5  | 8818.7  | 8764.2  | 8284.9  | 9019.7  | 8456.1  |
| 60°   | 5757.4 | 5846.9 | 6572.1 | 7574.7 | 8788.8 | 9952.9  | 10158.4 | 10032.0 | 9356.0  | 9951.2  | 9601.8  |
| 62.5° | 4034.0 | 4127.1 | 4989.2 | 6558.0 | 8657.1 | 11752.7 | 12553.3 | 12008.1 | 10894.1 | 11323.4 | 11084.6 |
| 65°   | 2159.7 | 2204.4 | 2862.9 | 4550.2 | 7308.7 | 12124.0 | 16053.6 | 15224.0 | 13329.4 | 13015.1 | 12353.2 |
| 67.5° | 1191.3 | 1215.9 | 1467.9 | 2297.5 | 4681.1 | 10676.3 | 18283.5 | 18910.3 | 16373.1 | 14141.5 | 12122.3 |
| 69°   | 1077.2 | 1100.0 | 1265.1 | 1740.0 | 3132.4 | 8827.5  | 18065.8 | 19882.2 | 17707.6 | 14030.0 | 11268.9 |
| 70°   | 1053.5 | 1074.6 | 1222.9 | 1604.0 | 2535.4 | 7276.2  | 17336.2 | 19633.7 | 18025.4 | 13630.5 | 10524.5 |
| 72.5° | 948.2  | 971.0  | 1115.0 | 1440.7 | 2166.7 | 3627.6  | 13732.4 | 16600.5 | 16365.2 | 11818.5 | 7982.9  |
| 75°   | 884.1  | 905.1  | 1149.2 | 1410.8 | 2074.5 | 2295.8  | 9053.1  | 12234.6 | 12030.1 | 8267.3  | 4304.4  |
| 77.5° | 378.4  | 376.6  | 532.9  | 1194.0 | 2105.2 | 2222.9  | 4864.5  | 7643.1  | 6973.3  | 3533.6  | 1236.1  |
| 80°   | 252.8  | 248.5  | 252.8  | 351.2  | 1930.5 | 2235.2  | 2548.6  | 3879.5  | 2930.5  | 900.7   | 609.3   |
| 82.5° | 217.7  | 214.2  | 222.1  | 214.2  | 678.6  | 2551.2  | 2166.7  | 2063.1  | 1393.3  | 511.8   | 302.0   |
| 85°   | 146.6  | 140.5  | 191.4  | 192.3  | 320.4  | 2266.8  | 2440.6  | 1742.7  | 1127.2  | 303.8   | 149.2   |
| 87.5° | 70.2   | 68.5   | 111.5  | 136.1  | 187.9  | 920.9   | 2738.2  | 1785.7  | 1136.9  | 155.4   | 71.1    |
| 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°    | 4631.0  | 4631.0 | 4631.0 | 4631.0 | 4631.0 | 4631.0 | 4631.0 | 4631.0 | 4631.0 | 4631.0 | 4631.0 |
| 2.5°  | 4586.2  | 4550.2 | 4515.1 | 4473.0 | 4429.1 | 4379.9 | 4355.3 | 4330.8 | 4324.6 | 4317.6 | 4293.0 |
| 5°    | 4459.8  | 4408.9 | 4321.1 | 4224.5 | 4122.7 | 4023.5 | 3948.0 | 3900.6 | 3864.6 | 3846.2 | 3813.7 |
| 7.5°  | 4296.5  | 4221.9 | 4068.3 | 3901.5 | 3730.3 | 3574.0 | 3438.8 | 3353.6 | 3272.9 | 3235.1 | 3192.1 |
| 10°   | 4141.1  | 4029.6 | 3790.8 | 3545.0 | 3299.2 | 3063.1 | 2840.9 | 2683.8 | 2544.2 | 2466.1 | 2410.8 |
| 12.5° | 4007.7  | 3854.9 | 3524.0 | 3191.2 | 2854.1 | 2517.9 | 2185.1 | 1923.5 | 1704.9 | 1589.9 | 1531.1 |
| 15°   | 3877.8  | 3693.4 | 3270.2 | 2848.0 | 2415.1 | 1957.8 | 1520.6 | 1223.8 | 1043.0 | 971.0  | 946.4  |
| 17.5° | 3760.1  | 3524.0 | 3015.6 | 2502.1 | 1962.1 | 1409.1 | 1021.9 | 858.6  | 789.2  | 765.5  | 757.6  |
| 20°   | 3632.8  | 3352.8 | 2751.4 | 2140.4 | 1489.8 | 985.0  | 798.0  | 726.0  | 697.9  | 690.9  | 687.4  |
| 22.5° | 3509.9  | 3184.2 | 2498.6 | 1753.2 | 1070.2 | 760.3  | 685.7  | 655.8  | 651.4  | 657.6  | 657.6  |
| 25°   | 3405.4  | 3033.2 | 2225.5 | 1348.5 | 785.7  | 640.0  | 613.7  | 606.6  | 623.3  | 646.1  | 650.5  |
| 27.5° | 3327.3  | 2909.4 | 1934.9 | 995.6  | 626.0  | 556.6  | 555.7  | 567.1  | 608.4  | 652.3  | 661.1  |
| 30°   | 3273.8  | 2791.8 | 1624.1 | 718.1  | 525.0  | 489.9  | 503.9  | 528.5  | 589.1  | 651.4  | 668.1  |
| 32.5° | 3246.5  | 2704.9 | 1300.2 | 555.7  | 449.5  | 430.2  | 453.9  | 483.7  | 543.4  | 601.4  | 623.3  |
| 35°   | 3267.6  | 2640.8 | 994.7  | 463.5  | 396.8  | 381.9  | 406.5  | 435.4  | 470.6  | 495.1  | 511.8  |
| 37.5° | 3346.6  | 2615.3 | 750.6  | 415.3  | 360.8  | 346.8  | 366.1  | 382.8  | 396.8  | 403.8  | 411.7  |
| 40°   | 3516.9  | 2642.5 | 601.4  | 390.7  | 340.6  | 323.1  | 331.0  | 337.1  | 345.9  | 352.9  | 356.4  |
| 42.5° | 3768.0  | 2724.2 | 539.0  | 381.0  | 330.1  | 304.6  | 302.9  | 305.5  | 316.9  | 330.1  | 332.7  |
| 45°   | 4119.2  | 2868.2 | 534.7  | 387.2  | 324.8  | 289.7  | 281.8  | 285.3  | 302.9  | 323.1  | 326.6  |
| 47.5° | 4567.8  | 3087.6 | 569.8  | 405.6  | 329.2  | 281.8  | 268.6  | 273.0  | 295.0  | 322.2  | 326.6  |
| 50°   | 5111.2  | 3394.0 | 628.6  | 432.8  | 348.5  | 283.6  | 264.3  | 266.9  | 289.7  | 319.6  | 324.0  |
| 52.5° | 5753.0  | 3828.6 | 692.7  | 459.2  | 368.7  | 295.0  | 267.8  | 261.6  | 282.7  | 309.0  | 314.3  |
| 55°   | 6466.7  | 4386.1 | 758.5  | 482.9  | 379.3  | 309.0  | 274.8  | 254.6  | 269.5  | 291.5  | 295.9  |
| 57.5° | 7342.9  | 5165.7 | 872.6  | 505.7  | 386.3  | 318.7  | 281.8  | 247.6  | 252.8  | 268.6  | 272.2  |
| 60°   | 8529.0  | 6268.3 | 1073.7 | 543.4  | 402.1  | 322.2  | 280.9  | 241.4  | 236.2  | 244.9  | 246.7  |
| 62.5° | 9950.3  | 7465.8 | 1241.4 | 590.8  | 428.4  | 324.8  | 275.7  | 237.0  | 222.1  | 222.1  | 223.9  |
| 65°   | 10794.0 | 7786.2 | 1148.3 | 630.3  | 450.4  | 322.2  | 269.5  | 232.6  | 211.6  | 201.9  | 202.8  |
| 67.5° | 10078.5 | 6847.8 | 984.1  | 638.2  | 449.5  | 309.9  | 259.9  | 224.7  | 201.0  | 186.1  | 185.2  |
| 69°   | 9182.1  | 5908.4 | 910.4  | 617.2  | 428.4  | 294.1  | 247.6  | 216.0  | 193.1  | 177.3  | 176.5  |
| 70°   | 8459.6  | 5335.1 | 862.1  | 594.3  | 405.6  | 282.7  | 237.9  | 208.1  | 187.0  | 172.1  | 170.3  |
| 72.5° | 6150.7  | 3495.9 | 736.6  | 510.9  | 334.5  | 237.0  | 205.4  | 182.6  | 166.8  | 158.0  | 156.3  |
| 75°   | 3073.6  | 1667.2 | 597.9  | 414.4  | 256.4  | 189.6  | 168.6  | 152.8  | 144.9  | 143.1  | 142.2  |
| 77.5° | 1009.6  | 763.8  | 427.5  | 309.0  | 190.5  | 148.4  | 136.1  | 124.7  | 122.9  | 128.2  | 126.4  |
| 80°   | 554.8   | 444.2  | 271.3  | 204.6  | 129.9  | 108.9  | 107.1  | 101.0  | 103.6  | 112.4  | 110.6  |
| 82.5° | 282.7   | 230.9  | 167.7  | 122.9  | 87.8   | 78.1   | 85.2   | 81.6   | 85.2   | 93.1   | 92.2   |
| 85°   | 139.6   | 126.4  | 106.2  | 74.6   | 57.9   | 50.0   | 60.6   | 63.2   | 65.0   | 71.1   | 71.1   |
| 87.5° | 80.8    | 74.6   | 56.2   | 35.1   | 29.0   | 26.3   | 35.1   | 34.2   | 40.4   | 43.9   | 43.0   |
| 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)