

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: P192893

Luminaire Tested: **GAN-AF-05-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P192893  
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-SL3-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 18959.7 lumens  
Efficiency: N/A  
Efficacy: 117.0 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

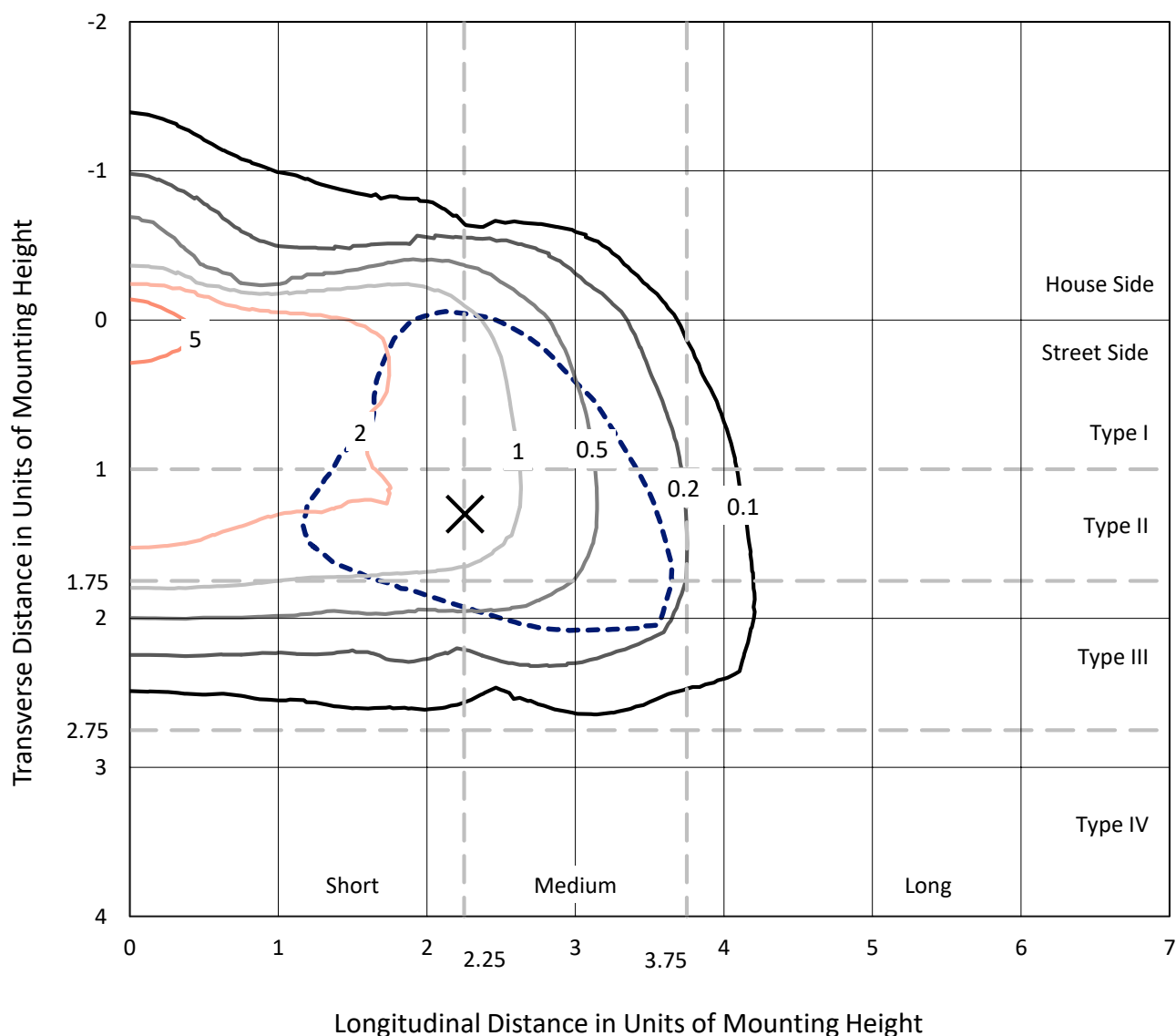


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

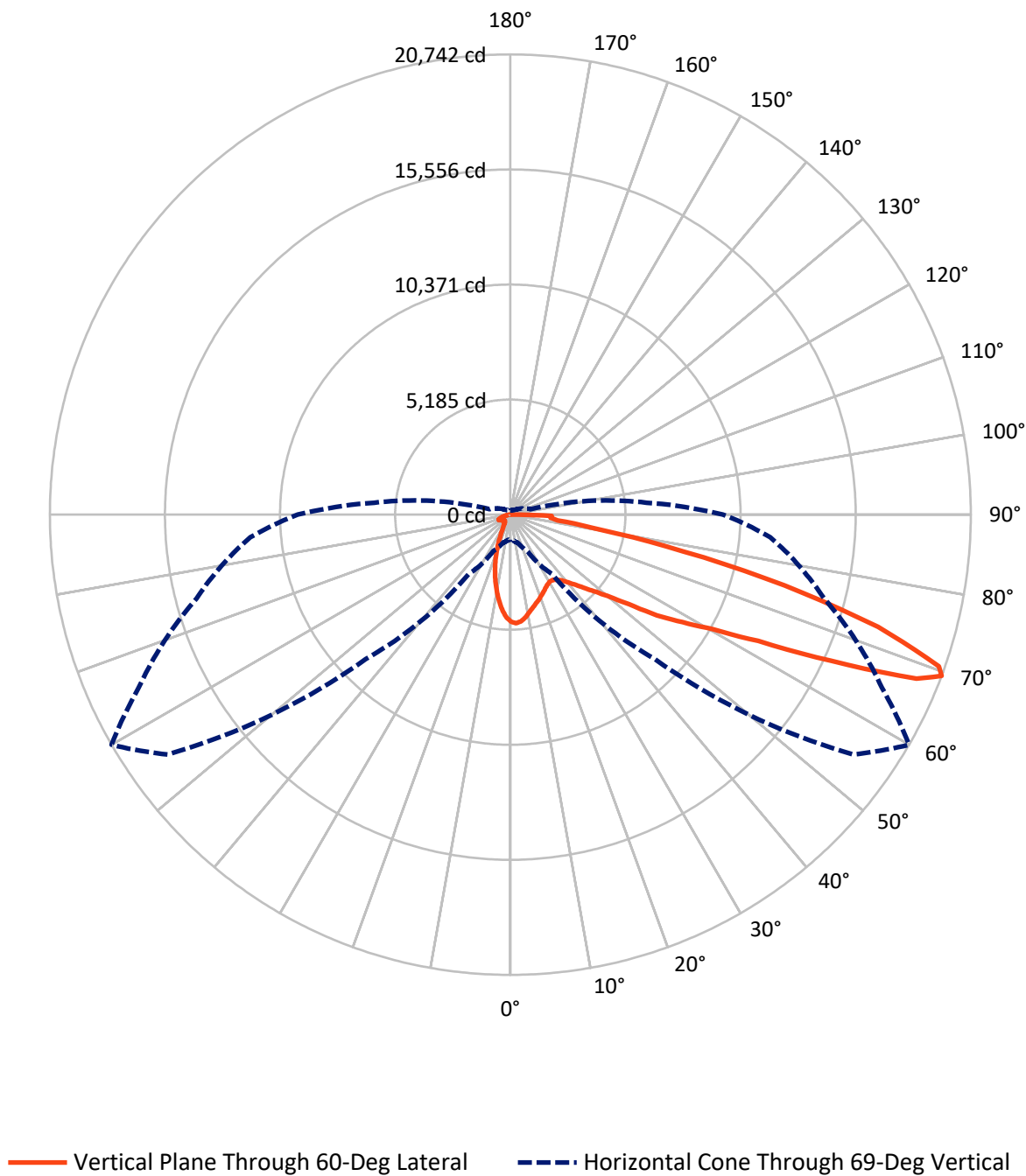


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2697.4   | 0.0    | 2697.4  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 16262.4  | 0.0    | 16262.4 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 18959.7  | 0.0    | 18959.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 408.5   | 2.2       |
| 10°-20°   | 870.3   | 4.6       |
| 20°-30°   | 1109.0  | 5.8       |
| 30°-40°   | 1524.5  | 8.0       |
| 40°-50°   | 2473.7  | 13.0      |
| 50°-60°   | 3967.2  | 20.9      |
| 60°-70°   | 5280.0  | 27.8      |
| 70°-80°   | 2850.8  | 15.0      |
| 80°-90°   | 475.7   | 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°    | 18959.7 | 100.0     |
| 0°-180°   | 18959.7 | 100.0     |

**Coefficient of Utilization**



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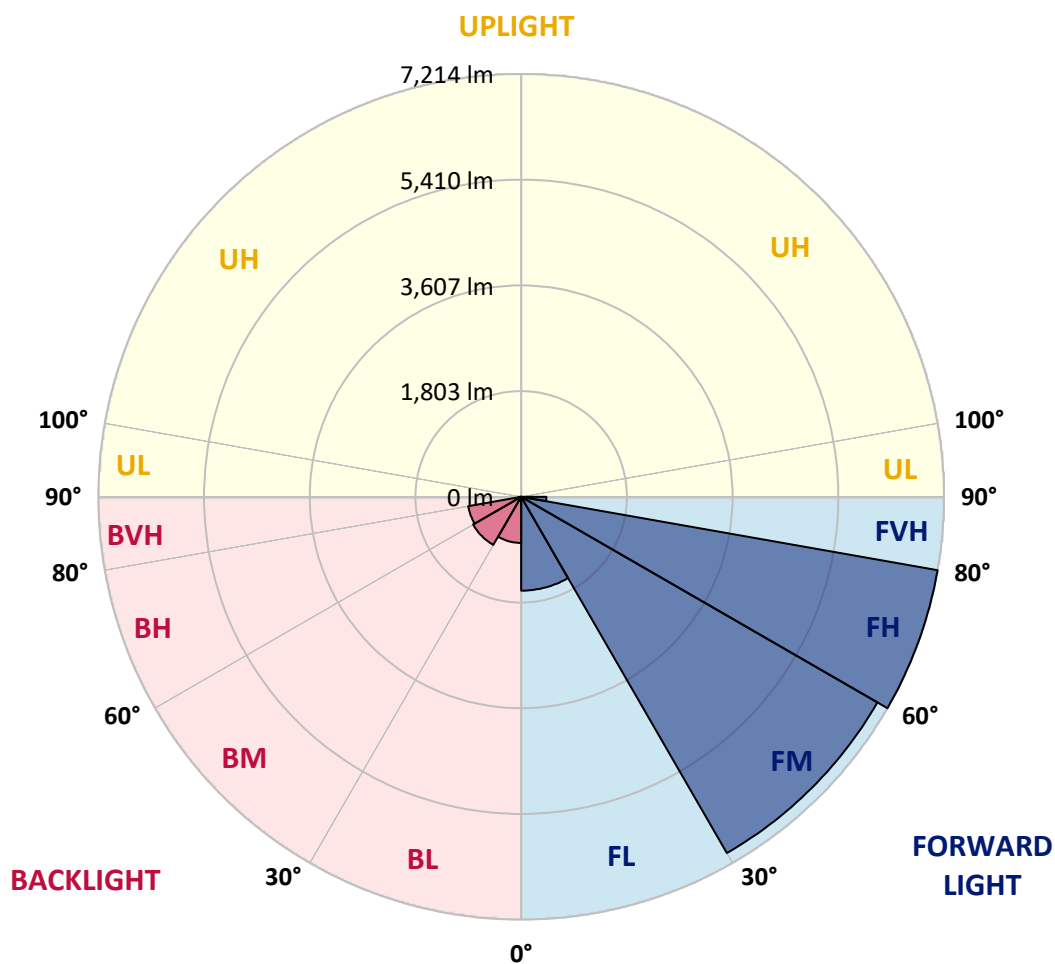
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1600.9 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 7017.8 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 7213.8 | 38.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 429.9  | 2.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 786.9  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 947.6  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 917.0  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 45.8   | 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°    | 4831.2 | 4831.2 | 4831.2 | 4831.2 | 4831.2 | 4831.2  | 4831.2  | 4831.2  | 4831.2  | 4831.2  | 4831.2  |
| 2.5°  | 4930.1 | 4941.1 | 4936.6 | 4933.8 | 4942.1 | 4929.2  | 4902.7  | 4894.4  | 4881.6  | 4851.3  | 4800.1  |
| 5°    | 4745.1 | 4778.1 | 4776.3 | 4801.0 | 4842.3 | 4853.2  | 4841.3  | 4843.1  | 4819.3  | 4781.7  | 4696.6  |
| 7.5°  | 4425.5 | 4439.2 | 4446.6 | 4500.6 | 4575.7 | 4636.2  | 4687.4  | 4703.9  | 4692.9  | 4660.9  | 4550.9  |
| 10°   | 4095.8 | 4106.7 | 4124.2 | 4187.4 | 4282.6 | 4366.0  | 4463.0  | 4519.0  | 4542.8  | 4537.2  | 4414.5  |
| 12.5° | 3812.8 | 3823.7 | 3846.7 | 3918.1 | 4031.6 | 4134.3  | 4275.4  | 4344.9  | 4401.7  | 4435.6  | 4303.7  |
| 15°   | 3559.1 | 3582.9 | 3604.9 | 3687.3 | 3814.6 | 3949.2  | 4108.5  | 4196.5  | 4284.5  | 4360.4  | 4205.7  |
| 17.5° | 3361.3 | 3385.1 | 3397.9 | 3473.1 | 3608.5 | 3773.4  | 3960.2  | 4063.7  | 4173.6  | 4298.2  | 4108.5  |
| 20°   | 3246.7 | 3257.8 | 3252.3 | 3294.3 | 3416.2 | 3591.2  | 3812.8  | 3932.8  | 4065.5  | 4239.6  | 4011.6  |
| 22.5° | 3214.7 | 3215.6 | 3195.5 | 3190.9 | 3269.7 | 3417.1  | 3655.3  | 3800.9  | 3963.9  | 4201.1  | 3928.2  |
| 25°   | 3292.5 | 3289.8 | 3234.8 | 3190.1 | 3198.2 | 3284.4  | 3503.2  | 3672.6  | 3878.7  | 4192.9  | 3864.1  |
| 27.5° | 3465.7 | 3473.9 | 3392.4 | 3308.2 | 3224.8 | 3222.0  | 3387.8  | 3566.4  | 3809.1  | 4230.4  | 3836.6  |
| 30°   | 3708.4 | 3722.1 | 3635.0 | 3528.0 | 3371.3 | 3242.2  | 3342.9  | 3503.2  | 3766.0  | 4308.3  | 3832.0  |
| 32.5° | 3974.0 | 3988.6 | 3922.7 | 3810.1 | 3604.9 | 3366.8  | 3374.0  | 3508.8  | 3764.2  | 4417.3  | 3863.2  |
| 35°   | 4257.0 | 4273.4 | 4239.6 | 4144.3 | 3916.3 | 3596.6  | 3493.1  | 3597.6  | 3823.7  | 4584.0  | 3946.6  |
| 37.5° | 4572.9 | 4598.6 | 4607.8 | 4517.1 | 4273.4 | 3899.8  | 3688.3  | 3766.0  | 3958.4  | 4815.7  | 4099.4  |
| 40°   | 5028.1 | 5063.8 | 5061.1 | 4931.1 | 4682.9 | 4309.1  | 3989.5  | 4009.7  | 4168.1  | 5125.3  | 4344.0  |
| 42.5° | 5900.1 | 5907.4 | 5679.3 | 5396.4 | 5133.4 | 4739.6  | 4344.9  | 4328.5  | 4457.6  | 5517.3  | 4703.9  |
| 45°   | 7009.2 | 6978.9 | 6471.5 | 5924.8 | 5604.2 | 5234.2  | 4807.4  | 4726.8  | 4824.8  | 5995.3  | 5154.6  |
| 47.5° | 7929.6 | 7860.0 | 7218.9 | 6464.3 | 6102.4 | 5771.8  | 5350.5  | 5209.5  | 5263.6  | 6537.5  | 5736.9  |
| 50°   | 8249.3 | 8197.0 | 7665.8 | 6913.1 | 6574.1 | 6427.6  | 6019.1  | 5819.4  | 5834.1  | 7184.2  | 6419.3  |
| 52.5° | 8180.6 | 8173.2 | 7818.8 | 7208.8 | 7015.6 | 7116.4  | 6966.2  | 6696.0  | 6553.1  | 7902.1  | 7155.7  |
| 55°   | 8018.4 | 8034.1 | 7905.8 | 7553.2 | 7520.2 | 7781.2  | 8203.5  | 8003.8  | 7559.6  | 8626.6  | 7916.8  |
| 57.5° | 7455.2 | 7495.5 | 7777.6 | 7986.5 | 8332.6 | 8721.0  | 9199.9  | 9143.2  | 8643.1  | 9409.7  | 8821.7  |
| 60°   | 6006.3 | 6099.7 | 6856.2 | 7902.1 | 9168.8 | 10383.2 | 10597.6 | 10465.7 | 9760.4  | 10381.4 | 10016.9 |
| 62.5° | 4208.4 | 4305.5 | 5204.9 | 6841.6 | 9031.5 | 12260.8 | 13096.1 | 12527.3 | 11365.0 | 11812.9 | 11563.8 |
| 65°   | 2253.0 | 2299.8 | 2986.7 | 4747.0 | 7624.6 | 12648.2 | 16747.7 | 15882.2 | 13905.8 | 13577.8 | 12887.2 |
| 67.5° | 1242.9 | 1268.5 | 1531.4 | 2396.8 | 4883.5 | 11137.9 | 19073.9 | 19728.0 | 17081.0 | 14753.0 | 12646.4 |
| 69°   | 1123.7 | 1147.5 | 1319.8 | 1815.3 | 3267.8 | 9209.1  | 18846.9 | 20741.8 | 18473.2 | 14636.6 | 11756.2 |
| 70°   | 1099.0 | 1121.0 | 1275.8 | 1673.3 | 2645.0 | 7590.8  | 18085.8 | 20482.7 | 18804.7 | 14219.9 | 10979.5 |
| 72.5° | 989.2  | 1013.0 | 1163.2 | 1503.0 | 2260.3 | 3784.4  | 14326.1 | 17318.2 | 17072.9 | 12329.5 | 8328.1  |
| 75°   | 922.2  | 944.2  | 1198.9 | 1471.8 | 2164.2 | 2395.0  | 9444.5  | 12763.6 | 12550.2 | 8624.8  | 4490.5  |
| 77.5° | 394.8  | 392.9  | 555.9  | 1245.5 | 2196.2 | 2319.0  | 5074.9  | 7973.6  | 7274.8  | 3686.4  | 1289.6  |
| 80°   | 263.8  | 259.2  | 263.8  | 366.3  | 2013.9 | 2331.8  | 2658.9  | 4047.3  | 3057.2  | 939.7   | 635.7   |
| 82.5° | 227.2  | 223.4  | 231.7  | 223.4  | 708.0  | 2661.5  | 2260.3  | 2152.3  | 1453.4  | 533.9   | 315.1   |
| 85°   | 153.0  | 146.5  | 199.6  | 200.6  | 334.4  | 2364.8  | 2546.2  | 1818.0  | 1175.9  | 316.9   | 155.7   |
| 87.5° | 73.3   | 71.4   | 116.4  | 141.9  | 196.0  | 960.7   | 2856.6  | 1862.9  | 1186.0  | 162.1   | 74.2    |
| 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°    | 4831.2  | 4831.2 | 4831.2 | 4831.2 | 4831.2 | 4831.2 | 4831.2 | 4831.2 | 4831.2 | 4831.2 | 4831.2 |
| 2.5°  | 4784.6  | 4747.0 | 4710.3 | 4666.4 | 4620.6 | 4569.3 | 4543.6 | 4518.0 | 4511.7 | 4504.3 | 4478.6 |
| 5°    | 4652.6  | 4599.5 | 4507.9 | 4407.2 | 4301.0 | 4197.4 | 4118.6 | 4069.3 | 4031.6 | 4012.4 | 3978.5 |
| 7.5°  | 4482.3  | 4404.5 | 4244.1 | 4070.1 | 3891.6 | 3728.5 | 3587.5 | 3498.6 | 3414.4 | 3375.0 | 3330.1 |
| 10°   | 4320.2  | 4203.9 | 3954.7 | 3698.3 | 3441.8 | 3195.5 | 2963.7 | 2799.9 | 2654.2 | 2572.7 | 2515.0 |
| 12.5° | 4181.0  | 4021.7 | 3676.3 | 3329.2 | 2977.6 | 2626.7 | 2279.5 | 2006.6 | 1778.6 | 1658.7 | 1597.3 |
| 15°   | 4045.5  | 3853.0 | 3411.6 | 2971.1 | 2519.5 | 2042.4 | 1586.3 | 1276.7 | 1088.0 | 1013.0 | 987.2  |
| 17.5° | 3922.7  | 3676.3 | 3146.0 | 2610.2 | 2047.0 | 1470.0 | 1066.1 | 895.7  | 823.4  | 798.6  | 790.4  |
| 20°   | 3789.8  | 3497.7 | 2870.3 | 2232.9 | 1554.2 | 1027.6 | 832.5  | 757.3  | 728.1  | 720.8  | 717.2  |
| 22.5° | 3661.8  | 3321.9 | 2606.6 | 1829.0 | 1116.4 | 793.1  | 715.3  | 684.2  | 679.6  | 686.0  | 686.0  |
| 25°   | 3552.7  | 3164.3 | 2321.8 | 1406.8 | 819.7  | 667.7  | 640.1  | 632.8  | 650.3  | 674.1  | 678.6  |
| 27.5° | 3471.1  | 3035.2 | 2018.6 | 1038.6 | 653.1  | 580.7  | 579.7  | 591.6  | 634.7  | 680.4  | 689.7  |
| 30°   | 3415.3  | 2912.6 | 1694.4 | 749.2  | 547.7  | 511.0  | 525.7  | 551.3  | 614.6  | 679.6  | 697.0  |
| 32.5° | 3386.9  | 2821.8 | 1356.5 | 579.7  | 468.9  | 448.7  | 473.5  | 504.7  | 566.9  | 627.3  | 650.3  |
| 35°   | 3408.9  | 2755.0 | 1037.6 | 483.6  | 414.0  | 398.4  | 424.0  | 454.3  | 490.9  | 516.6  | 533.9  |
| 37.5° | 3491.3  | 2728.4 | 783.1  | 433.2  | 376.4  | 361.7  | 382.0  | 399.4  | 414.0  | 421.3  | 429.5  |
| 40°   | 3669.0  | 2756.8 | 627.3  | 407.5  | 355.3  | 337.1  | 345.3  | 351.7  | 360.9  | 368.2  | 371.8  |
| 42.5° | 3930.9  | 2842.0 | 562.3  | 397.4  | 344.3  | 317.8  | 316.0  | 318.7  | 330.6  | 344.3  | 347.1  |
| 45°   | 4297.2  | 2992.2 | 557.8  | 403.9  | 338.9  | 302.2  | 294.0  | 297.6  | 316.0  | 337.1  | 340.7  |
| 47.5° | 4765.4  | 3221.2 | 594.4  | 423.2  | 343.4  | 294.0  | 280.2  | 284.8  | 307.8  | 336.1  | 340.7  |
| 50°   | 5332.2  | 3540.8 | 655.8  | 451.6  | 363.7  | 295.9  | 275.7  | 278.4  | 302.2  | 333.3  | 337.9  |
| 52.5° | 6001.7  | 3994.1 | 722.6  | 479.0  | 384.7  | 307.8  | 279.3  | 272.9  | 294.9  | 322.5  | 327.9  |
| 55°   | 6746.3  | 4575.7 | 791.4  | 503.6  | 395.6  | 322.5  | 286.7  | 265.6  | 281.2  | 304.1  | 308.6  |
| 57.5° | 7660.3  | 5389.0 | 910.3  | 527.5  | 402.9  | 332.4  | 294.0  | 258.3  | 263.8  | 280.2  | 284.0  |
| 60°   | 8897.7  | 6539.3 | 1120.1 | 566.9  | 419.4  | 336.1  | 293.1  | 251.9  | 246.4  | 255.5  | 257.5  |
| 62.5° | 10380.5 | 7788.5 | 1295.0 | 616.3  | 447.0  | 338.9  | 287.6  | 247.3  | 231.7  | 231.7  | 233.6  |
| 65°   | 11260.7 | 8122.9 | 1197.9 | 657.6  | 469.9  | 336.1  | 281.2  | 242.7  | 220.7  | 210.7  | 211.5  |
| 67.5° | 10514.2 | 7143.8 | 1026.7 | 665.8  | 468.9  | 323.3  | 271.1  | 234.5  | 209.8  | 194.2  | 193.3  |
| 69°   | 9579.1  | 6163.9 | 949.8  | 643.9  | 447.0  | 306.8  | 258.3  | 225.3  | 201.5  | 184.9  | 184.1  |
| 70°   | 8825.3  | 5565.7 | 899.4  | 620.0  | 423.2  | 294.9  | 248.2  | 217.1  | 195.0  | 179.5  | 177.6  |
| 72.5° | 6416.6  | 3647.0 | 768.4  | 533.0  | 349.0  | 247.3  | 214.3  | 190.5  | 174.0  | 164.9  | 163.1  |
| 75°   | 3206.4  | 1739.3 | 623.8  | 432.3  | 267.4  | 197.9  | 175.8  | 159.4  | 151.1  | 149.2  | 148.4  |
| 77.5° | 1053.3  | 796.8  | 446.0  | 322.5  | 198.8  | 154.8  | 141.9  | 130.0  | 128.3  | 133.8  | 131.8  |
| 80°   | 578.8   | 463.5  | 283.0  | 213.4  | 135.6  | 113.5  | 111.8  | 105.3  | 108.0  | 117.2  | 115.4  |
| 82.5° | 294.9   | 240.9  | 175.0  | 128.3  | 91.6   | 81.5   | 88.8   | 85.2   | 88.8   | 97.1   | 96.1   |
| 85°   | 145.7   | 131.8  | 110.8  | 77.9   | 60.4   | 52.2   | 63.2   | 66.0   | 67.7   | 74.2   | 74.2   |
| 87.5° | 84.2    | 77.9   | 58.6   | 36.6   | 30.3   | 27.5   | 36.6   | 35.7   | 42.2   | 45.8   | 44.9   |
| 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)