

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: P193602

Luminaire Tested: **GAN-AF-04-LED-U-SL2-8030-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL2-8030-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17803 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 258
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

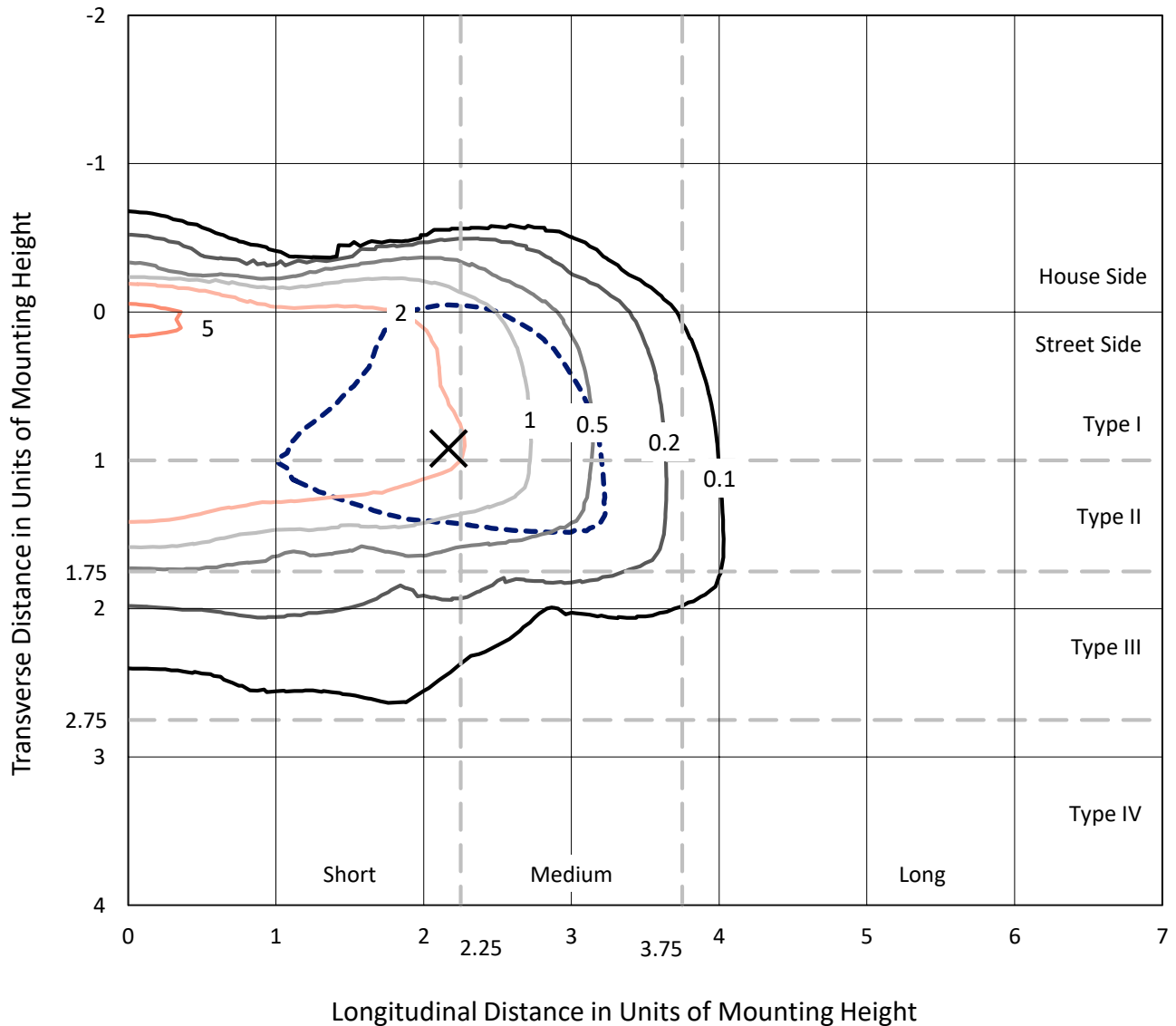


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

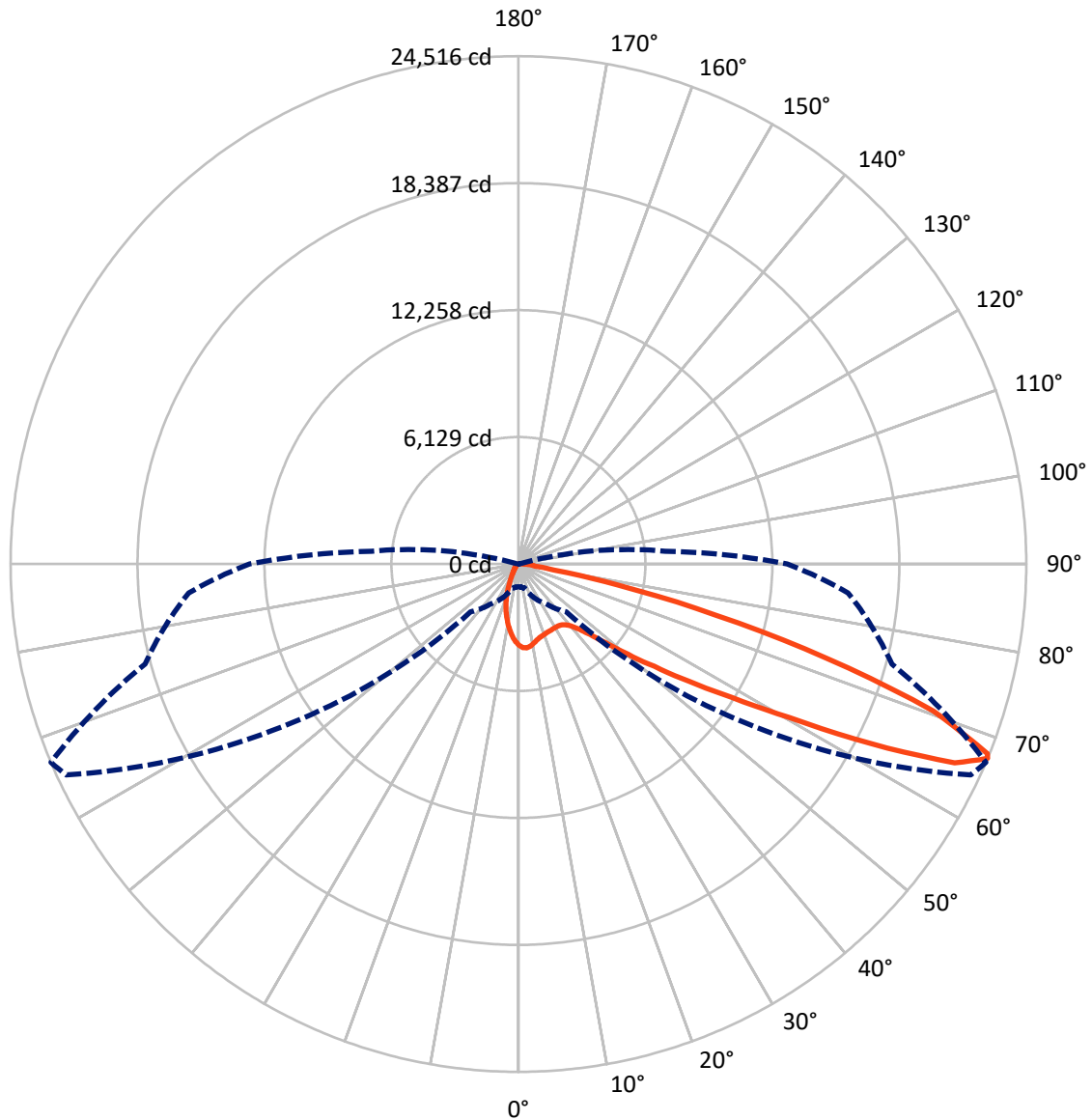


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1848.5 | 0.0 | 1848.5 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 15954.5 | 0.0 | 15954.5 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 17803.0 | 0.0 | 17803.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 319.5 | 1.8 |
| 10°-20° | 680.0 | 3.8 |
| 20°-30° | 988.6 | 5.6 |
| 30°-40° | 1542.2 | 8.7 |
| 40°-50° | 2732.0 | 15.3 |
| 50°-60° | 4323.1 | 24.3 |
| 60°-70° | 4951.6 | 27.8 |
| 70°-80° | 2053.9 | 11.5 |
| 80°-90° | 212.2 | 1.2 |
| 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° | 17803.0 | 100.0 |
| 0°-180° | 17803.0 | 100.0 |



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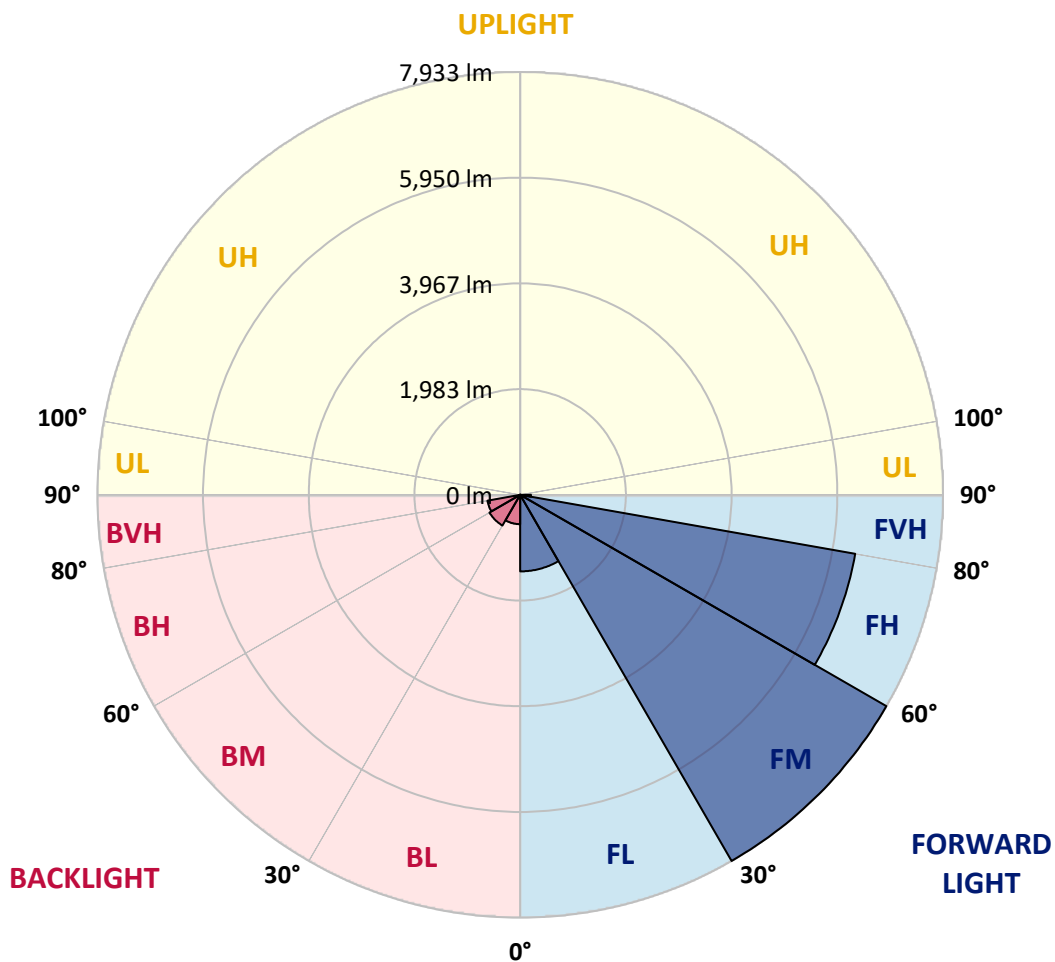
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1436.4 | 8.1 | | | |
| FM | (30°-60°) | 7933.1 | 44.6 | | | |
| FH | (60°-80°) | 6382.4 | 35.9 | | | G3/7500 |
| FVH | (80°-90°) | 202.6 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 551.6 | 3.1 | B2/1000 | | |
| BM | (30°-60°) | 664.3 | 3.7 | B1/1000 | | |
| BH | (60°-80°) | 623.0 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 9.6 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 |
| 2.5° | 4059.1 | 4067.4 | 4066.4 | 4072.6 | 4087.2 | 4088.2 | 4073.7 | 4045.6 | 4039.4 | 4003.1 | 3939.7 |
| 5° | 3743.5 | 3767.3 | 3781.9 | 3841.1 | 3907.5 | 3987.5 | 4047.7 | 4069.5 | 4066.4 | 4040.4 | 3944.9 |
| 7.5° | 3383.1 | 3407.0 | 3423.6 | 3493.2 | 3581.5 | 3718.5 | 3875.3 | 4004.1 | 4015.5 | 4043.6 | 3940.8 |
| 10° | 3143.3 | 3147.4 | 3170.3 | 3236.7 | 3329.1 | 3469.3 | 3656.2 | 3881.6 | 3915.8 | 4018.6 | 3930.4 |
| 12.5° | 2946.0 | 2949.1 | 2979.2 | 3050.8 | 3149.5 | 3290.7 | 3487.0 | 3747.6 | 3800.6 | 3987.5 | 3928.3 |
| 15° | 2805.8 | 2817.2 | 2844.2 | 2919.0 | 3023.8 | 3164.0 | 3365.5 | 3649.0 | 3712.3 | 3976.1 | 3947.0 |
| 17.5° | 2759.0 | 2771.5 | 2779.8 | 2833.8 | 2929.3 | 3066.4 | 3273.1 | 3584.6 | 3656.2 | 3982.3 | 3983.3 |
| 20° | 2807.9 | 2817.2 | 2798.5 | 2812.0 | 2871.2 | 2993.7 | 3195.2 | 3529.5 | 3614.7 | 3989.6 | 4030.1 |
| 22.5° | 2989.6 | 2993.7 | 2942.8 | 2883.7 | 2873.3 | 2940.8 | 3133.9 | 3485.9 | 3577.3 | 4009.3 | 4085.1 |
| 25° | 3301.1 | 3293.8 | 3210.8 | 3083.0 | 2962.6 | 2931.4 | 3097.6 | 3458.9 | 3558.6 | 4030.1 | 4142.2 |
| 27.5° | 3677.0 | 3687.4 | 3573.2 | 3387.3 | 3157.8 | 2993.7 | 3092.4 | 3447.5 | 3550.3 | 4044.6 | 4192.1 |
| 30° | 4133.9 | 4148.4 | 4017.6 | 3784.0 | 3454.8 | 3147.4 | 3140.1 | 3445.4 | 3545.1 | 4035.3 | 4196.2 |
| 32.5° | 4600.1 | 4617.8 | 4515.0 | 4274.1 | 3851.5 | 3404.9 | 3248.1 | 3468.3 | 3555.5 | 4003.1 | 4172.3 |
| 35° | 5088.2 | 5113.1 | 5044.6 | 4837.9 | 4389.3 | 3776.7 | 3438.2 | 3537.9 | 3604.3 | 3999.9 | 4148.4 |
| 37.5° | 5762.1 | 5785.0 | 5656.2 | 5437.1 | 5040.4 | 4275.1 | 3743.5 | 3668.7 | 3719.6 | 4049.8 | 4154.7 |
| 40° | 6768.3 | 6765.2 | 6432.9 | 6097.5 | 5755.9 | 4908.6 | 4172.3 | 3905.5 | 3931.4 | 4200.4 | 4231.5 |
| 42.5° | 7864.9 | 7859.7 | 7368.5 | 6858.7 | 6550.3 | 5688.4 | 4736.2 | 4314.6 | 4296.9 | 4477.6 | 4430.9 |
| 45° | 8710.2 | 8709.1 | 8308.3 | 7734.1 | 7506.6 | 6583.5 | 5465.1 | 4883.6 | 4856.6 | 4928.3 | 4798.5 |
| 47.5° | 9070.5 | 9076.7 | 8875.3 | 8471.3 | 8566.9 | 7794.3 | 6384.1 | 5708.1 | 5667.6 | 5638.6 | 5441.3 |
| 50° | 8790.1 | 8802.6 | 8819.2 | 8740.3 | 9344.6 | 9421.5 | 7616.7 | 6870.1 | 6850.4 | 6720.6 | 6412.2 |
| 52.5° | 7874.2 | 7937.6 | 8132.8 | 8383.1 | 9614.6 | 10983.2 | 9549.2 | 8313.5 | 8207.6 | 8069.5 | 7729.9 |
| 55° | 6331.2 | 6400.7 | 6771.5 | 7378.9 | 9212.8 | 12009.2 | 12257.4 | 10174.3 | 9997.8 | 9585.5 | 9095.4 |
| 57.5° | 4190.0 | 4298.0 | 4835.9 | 5608.4 | 8045.6 | 12174.3 | 14959.3 | 12756.8 | 12142.1 | 11013.4 | 10460.9 |
| 60° | 2308.4 | 2412.2 | 2995.8 | 3695.7 | 5810.9 | 11358.1 | 16776.5 | 16119.2 | 15033.0 | 12609.4 | 12119.3 |
| 62.5° | 1421.6 | 1477.7 | 1908.6 | 2559.7 | 3484.9 | 8964.6 | 17152.4 | 20344.5 | 19087.0 | 14664.4 | 14122.3 |
| 65° | 1131.9 | 1155.7 | 1366.5 | 2092.4 | 2498.4 | 5332.2 | 15938.5 | 23565.6 | 23146.1 | 17152.4 | 15915.7 |
| 67° | 1098.6 | 1108.0 | 1207.7 | 1796.4 | 2355.1 | 3268.9 | 13352.9 | 24090.0 | 24515.8 | 18658.1 | 15971.7 |
| 67.5° | 1105.9 | 1116.3 | 1210.8 | 1714.4 | 2351.0 | 3004.1 | 12461.9 | 23883.4 | 24421.3 | 18777.5 | 15723.6 |
| 70° | 1066.4 | 1098.6 | 1386.3 | 1713.4 | 2235.7 | 2496.3 | 7463.0 | 20693.4 | 21253.1 | 17447.3 | 13341.5 |
| 72.5° | 378.0 | 380.1 | 599.2 | 1386.3 | 2430.9 | 2523.3 | 3747.6 | 15170.1 | 15584.4 | 13346.7 | 9618.8 |
| 75° | 224.3 | 191.1 | 199.4 | 394.6 | 2322.9 | 2450.6 | 2162.0 | 9693.5 | 9848.3 | 7647.9 | 4871.2 |
| 77.5° | 154.7 | 135.0 | 139.1 | 174.5 | 884.7 | 2416.4 | 1717.5 | 5055.0 | 4889.9 | 2682.2 | 1037.4 |
| 80° | 88.3 | 77.9 | 83.1 | 152.6 | 321.9 | 2254.4 | 1619.9 | 2049.8 | 1747.6 | 454.8 | 286.6 |
| 82.5° | 46.7 | 39.5 | 47.8 | 125.6 | 224.3 | 1405.0 | 1623.0 | 990.6 | 785.0 | 153.7 | 195.2 |
| 85° | 16.6 | 13.5 | 22.8 | 86.2 | 149.5 | 430.9 | 1504.7 | 832.8 | 654.2 | 74.8 | 148.5 |
| 87.5° | 3.1 | 3.1 | 9.3 | 35.3 | 60.2 | 131.9 | 889.9 | 494.3 | 331.3 | 44.7 | 101.8 |
| 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° | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 | 3926.2 |
| 2.5° | 3913.8 | 3869.1 | 3808.9 | 3735.2 | 3647.9 | 3571.1 | 3514.0 | 3454.8 | 3442.3 | 3421.6 | 3418.4 |
| 5° | 3887.8 | 3811.0 | 3661.4 | 3490.1 | 3307.3 | 3142.2 | 3008.3 | 2888.8 | 2835.9 | 2790.2 | 2785.0 |
| 7.5° | 3849.4 | 3734.1 | 3479.7 | 3203.5 | 2917.9 | 2658.3 | 2438.2 | 2282.4 | 2139.1 | 2070.6 | 2060.2 |
| 10° | 3804.7 | 3639.6 | 3275.1 | 2892.0 | 2497.4 | 2130.8 | 1803.7 | 1529.6 | 1363.4 | 1264.8 | 1252.3 |
| 12.5° | 3763.2 | 3547.2 | 3066.4 | 2569.0 | 2044.6 | 1554.5 | 1133.9 | 872.3 | 697.8 | 627.2 | 618.9 |
| 15° | 3743.5 | 3472.4 | 2871.2 | 2238.8 | 1571.1 | 989.6 | 619.9 | 479.7 | 422.6 | 406.0 | 405.0 |
| 17.5° | 3741.4 | 3409.1 | 2680.1 | 1897.2 | 1100.7 | 575.3 | 403.9 | 368.6 | 357.2 | 353.1 | 353.1 |
| 20° | 3740.3 | 3348.9 | 2489.1 | 1543.1 | 698.8 | 383.2 | 336.4 | 328.1 | 319.8 | 314.6 | 314.6 |
| 22.5° | 3751.8 | 3294.9 | 2289.7 | 1181.7 | 440.3 | 310.5 | 295.9 | 287.6 | 277.3 | 270.0 | 268.9 |
| 25° | 3763.2 | 3253.3 | 2086.2 | 841.1 | 318.8 | 270.0 | 255.4 | 244.0 | 229.5 | 220.1 | 219.1 |
| 27.5° | 3765.3 | 3201.4 | 1868.1 | 562.8 | 266.9 | 235.7 | 217.0 | 199.4 | 182.8 | 173.4 | 172.4 |
| 30° | 3734.1 | 3114.2 | 1626.1 | 380.1 | 235.7 | 204.6 | 179.6 | 161.0 | 145.4 | 138.1 | 138.1 |
| 32.5° | 3672.8 | 3006.2 | 1360.3 | 286.6 | 209.8 | 175.5 | 148.5 | 130.8 | 120.5 | 117.3 | 116.3 |
| 35° | 3617.8 | 2889.9 | 1087.2 | 243.0 | 188.0 | 148.5 | 121.5 | 110.1 | 103.8 | 102.8 | 101.8 |
| 37.5° | 3585.6 | 2796.4 | 830.7 | 220.1 | 167.2 | 124.6 | 102.8 | 94.5 | 91.4 | 89.3 | 90.3 |
| 40° | 3610.5 | 2718.6 | 613.7 | 201.5 | 146.4 | 103.8 | 87.2 | 83.1 | 80.0 | 78.9 | 78.9 |
| 42.5° | 3719.6 | 2705.1 | 455.9 | 184.8 | 126.7 | 86.2 | 75.8 | 72.7 | 70.6 | 69.6 | 70.6 |
| 45° | 4006.2 | 2788.1 | 354.1 | 169.3 | 107.0 | 72.7 | 64.4 | 63.3 | 62.3 | 62.3 | 62.3 |
| 47.5° | 4437.1 | 2959.5 | 294.9 | 151.6 | 89.3 | 62.3 | 56.1 | 55.0 | 54.0 | 55.0 | 55.0 |
| 50° | 5167.1 | 3273.1 | 263.8 | 134.0 | 73.7 | 53.0 | 47.8 | 47.8 | 47.8 | 47.8 | 48.8 |
| 52.5° | 6277.2 | 3889.9 | 243.0 | 116.3 | 60.2 | 44.7 | 40.5 | 40.5 | 41.5 | 41.5 | 42.6 |
| 55° | 7513.9 | 4708.1 | 224.3 | 98.6 | 50.9 | 37.4 | 33.2 | 34.3 | 35.3 | 36.3 | 36.3 |
| 57.5° | 8855.5 | 5614.7 | 208.7 | 81.0 | 43.6 | 30.1 | 28.0 | 29.1 | 30.1 | 32.2 | 32.2 |
| 60° | 10474.4 | 6596.0 | 185.9 | 63.3 | 36.3 | 23.9 | 21.8 | 23.9 | 27.0 | 29.1 | 30.1 |
| 62.5° | 12252.2 | 7545.1 | 156.8 | 49.8 | 30.1 | 18.7 | 17.7 | 21.8 | 26.0 | 28.0 | 29.1 |
| 65° | 13467.1 | 7843.1 | 120.5 | 40.5 | 22.8 | 13.5 | 14.5 | 19.7 | 24.9 | 28.0 | 28.0 |
| 67° | 12974.9 | 7111.0 | 98.6 | 34.3 | 18.7 | 10.4 | 13.5 | 19.7 | 24.9 | 27.0 | 28.0 |
| 67.5° | 12633.3 | 6824.4 | 94.5 | 33.2 | 17.7 | 10.4 | 13.5 | 19.7 | 24.9 | 28.0 | 28.0 |
| 70° | 10279.2 | 5126.6 | 78.9 | 24.9 | 14.5 | 9.3 | 11.4 | 18.7 | 23.9 | 27.0 | 27.0 |
| 72.5° | 7142.2 | 3160.9 | 70.6 | 17.7 | 12.5 | 8.3 | 10.4 | 17.7 | 22.8 | 26.0 | 27.0 |
| 75° | 3395.6 | 1144.3 | 60.2 | 13.5 | 11.4 | 7.3 | 9.3 | 17.7 | 22.8 | 26.0 | 26.0 |
| 77.5° | 692.6 | 265.8 | 48.8 | 11.4 | 9.3 | 7.3 | 8.3 | 16.6 | 21.8 | 24.9 | 24.9 |
| 80° | 227.4 | 102.8 | 36.3 | 10.4 | 9.3 | 7.3 | 8.3 | 15.6 | 21.8 | 23.9 | 24.9 |
| 82.5° | 164.1 | 51.9 | 23.9 | 10.4 | 9.3 | 7.3 | 7.3 | 15.6 | 20.8 | 23.9 | 23.9 |
| 85° | 125.6 | 36.3 | 15.6 | 10.4 | 9.3 | 7.3 | 7.3 | 14.5 | 19.7 | 22.8 | 22.8 |
| 87.5° | 83.1 | 14.5 | 12.5 | 10.4 | 9.3 | 7.3 | 7.3 | 14.5 | 18.7 | 21.8 | 22.8 |
| 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)