

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: P268447

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18573.5 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

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

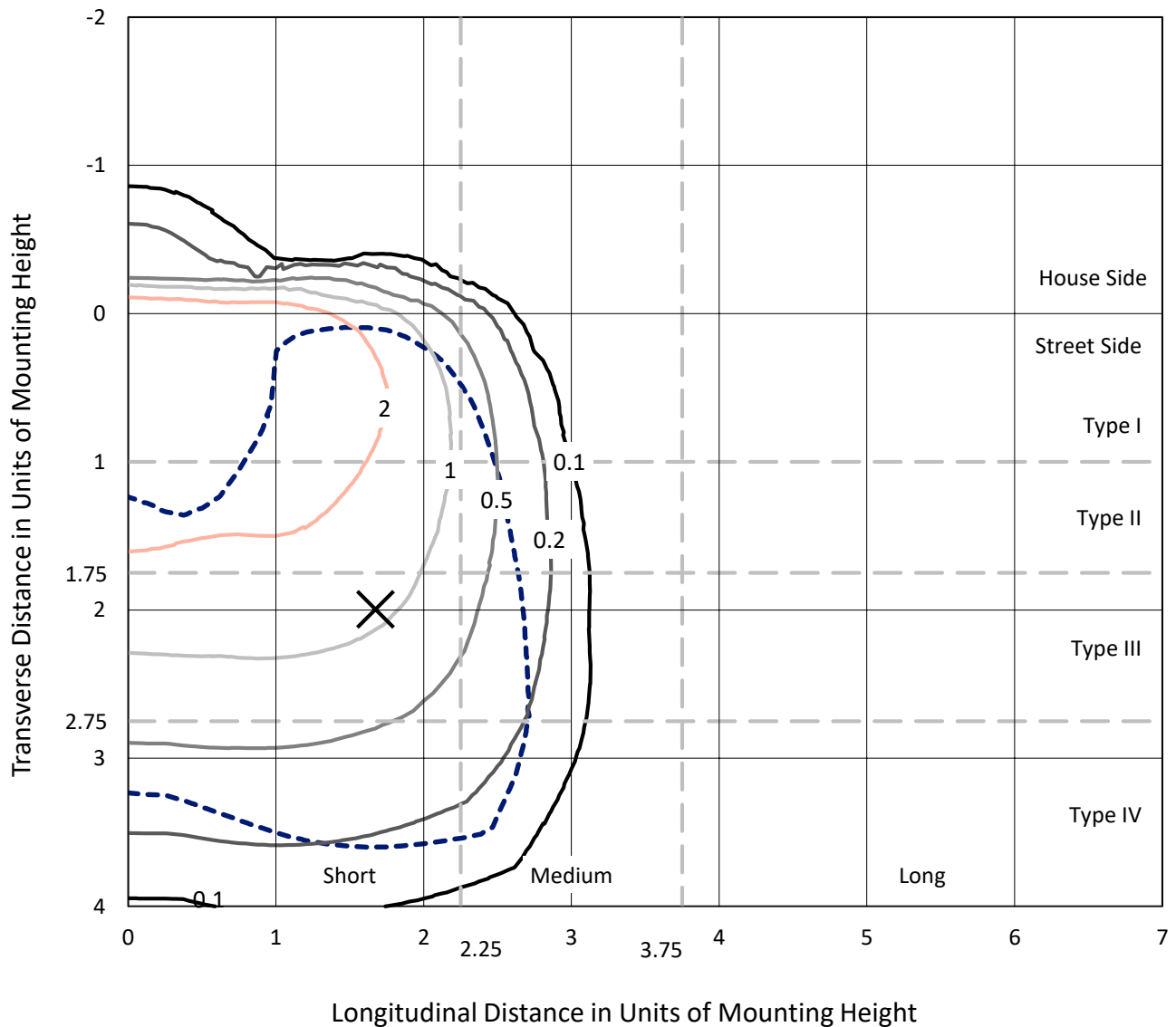


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

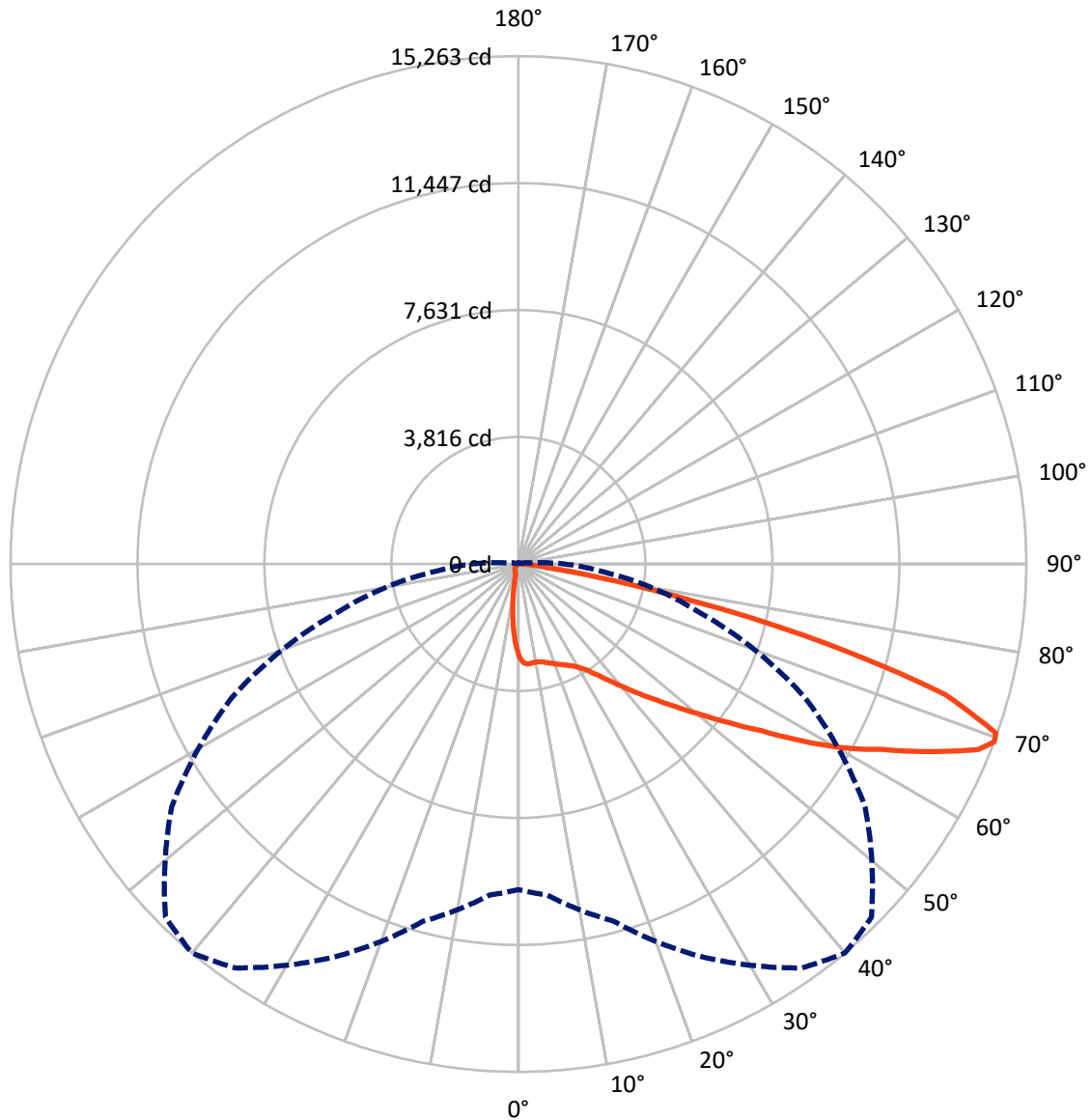


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1086.7 | 0.0 | 1086.7 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 17486.9 | 0.0 | 17486.9 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 18573.5 | 0.0 | 18573.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 225.0 | 1.2 |
| 10°-20° | 553.3 | 3.0 |
| 20°-30° | 932.0 | 5.0 |
| 30°-40° | 1525.6 | 8.2 |
| 40°-50° | 2641.6 | 14.2 |
| 50°-60° | 4160.8 | 22.4 |
| 60°-70° | 5433.9 | 29.3 |
| 70°-80° | 2798.7 | 15.1 |
| 80°-90° | 302.7 | 1.6 |
| 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° | 18573.5 | 100.0 |
| 0°-180° | 18573.5 | 100.0 |

Coefficient of Utilization



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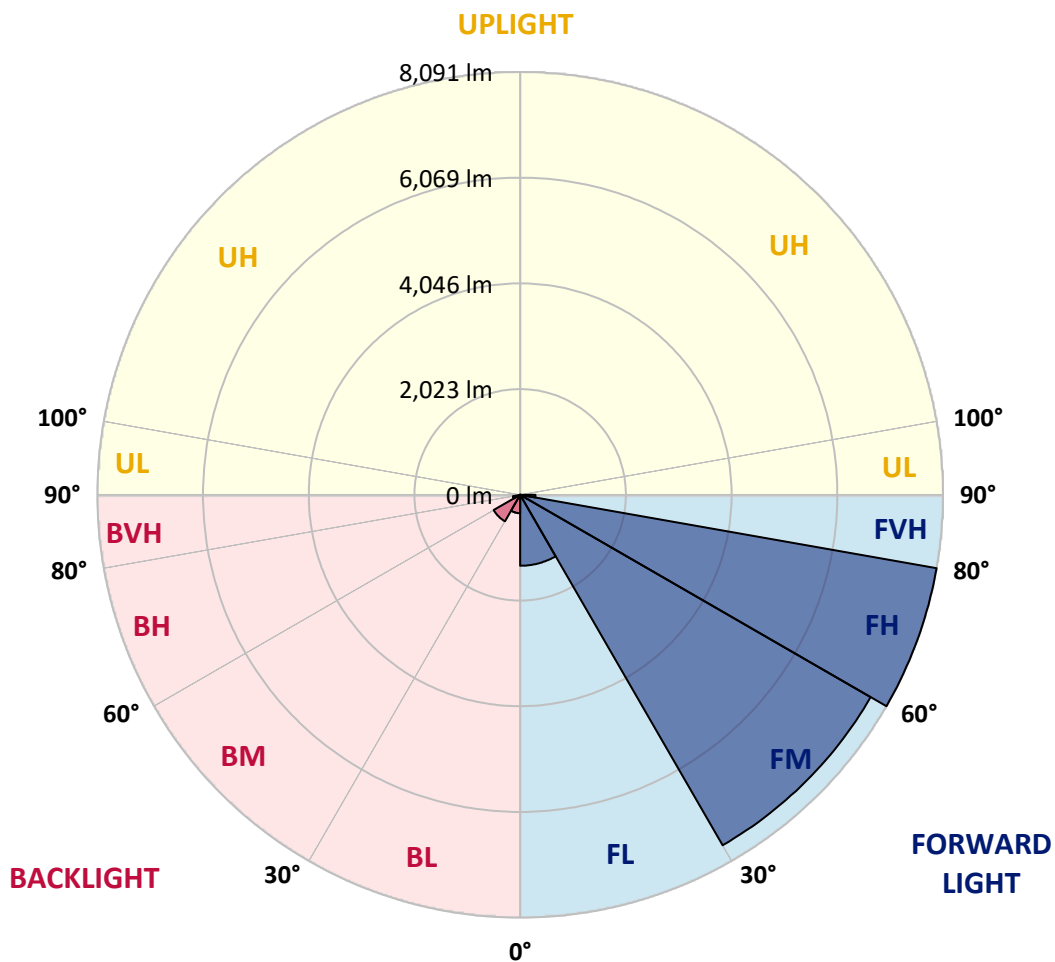
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1358.3 | 7.3 | | | |
| FM | (30°-60°) | 7744.0 | 41.7 | | | |
| FH | (60°-80°) | 8091.4 | 43.6 | | | G4/12000 |
| FVH | (80°-90°) | 293.2 | 1.6 | | | G3/500 |
| BL | (0°-30°) | 352.0 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 584.1 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 141.1 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 9.5 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 |
| 2.5° | 3047.0 | 3030.3 | 3020.5 | 3007.2 | 2990.5 | 2976.3 | 2970.7 | 2929.7 | 2891.0 | 2837.9 | 2777.2 |
| 5° | 3103.4 | 3097.9 | 3080.1 | 3062.4 | 3042.5 | 3020.5 | 3008.2 | 2959.6 | 2904.3 | 2827.0 | 2720.7 |
| 7.5° | 3108.9 | 3102.2 | 3080.1 | 3055.9 | 3028.1 | 3001.6 | 2980.7 | 2932.0 | 2881.1 | 2802.6 | 2673.3 |
| 10° | 3100.1 | 3092.2 | 3075.6 | 3049.1 | 3014.9 | 2989.5 | 2968.4 | 2922.0 | 2878.9 | 2808.1 | 2664.5 |
| 12.5° | 3090.1 | 3082.4 | 3074.5 | 3061.3 | 3031.5 | 3013.9 | 2996.0 | 2951.9 | 2913.2 | 2853.5 | 2696.5 |
| 15° | 3100.1 | 3095.6 | 3104.5 | 3099.0 | 3082.4 | 3066.9 | 3049.1 | 3009.3 | 2974.0 | 2924.3 | 2755.1 |
| 17.5° | 3142.0 | 3142.0 | 3169.7 | 3173.1 | 3157.5 | 3135.4 | 3110.0 | 3070.1 | 3040.4 | 2998.4 | 2824.7 |
| 20° | 3240.5 | 3237.1 | 3272.4 | 3279.2 | 3241.5 | 3207.3 | 3169.7 | 3121.0 | 3097.9 | 3071.2 | 2893.4 |
| 22.5° | 3409.5 | 3394.1 | 3415.0 | 3408.4 | 3334.4 | 3281.2 | 3234.8 | 3175.1 | 3163.0 | 3150.9 | 2969.5 |
| 25° | 3629.6 | 3620.8 | 3635.1 | 3569.9 | 3439.4 | 3367.6 | 3312.3 | 3244.9 | 3244.9 | 3257.1 | 3055.9 |
| 27.5° | 3949.0 | 3915.9 | 3867.4 | 3752.3 | 3556.6 | 3464.9 | 3405.1 | 3333.3 | 3352.0 | 3397.4 | 3169.7 |
| 30° | 4276.3 | 4239.9 | 4128.3 | 3951.4 | 3699.2 | 3603.0 | 3533.5 | 3458.2 | 3502.4 | 3585.3 | 3322.2 |
| 32.5° | 4599.2 | 4558.3 | 4400.2 | 4176.8 | 3903.8 | 3807.6 | 3740.2 | 3657.2 | 3731.3 | 3870.5 | 3545.6 |
| 35° | 4912.0 | 4875.6 | 4693.1 | 4430.0 | 4175.7 | 4096.1 | 4034.2 | 3962.3 | 4057.5 | 4252.0 | 3860.6 |
| 37.5° | 5263.6 | 5223.9 | 5001.7 | 4716.5 | 4506.3 | 4448.9 | 4403.5 | 4331.6 | 4497.5 | 4782.7 | 4299.6 |
| 40° | 5696.0 | 5628.5 | 5328.8 | 5044.7 | 4888.8 | 4861.2 | 4830.2 | 4820.2 | 5077.8 | 5472.6 | 4884.4 |
| 42.5° | 6191.2 | 6080.6 | 5671.5 | 5390.8 | 5309.0 | 5328.8 | 5321.1 | 5365.3 | 5804.3 | 6330.4 | 5596.4 |
| 45° | 6686.5 | 6543.9 | 6053.0 | 5760.0 | 5771.2 | 5840.7 | 5883.9 | 6060.8 | 6714.1 | 7314.4 | 6362.5 |
| 47.5° | 7106.6 | 6966.1 | 6419.0 | 6159.0 | 6291.8 | 6428.9 | 6546.0 | 6881.0 | 7649.4 | 8282.9 | 6958.5 |
| 50° | 7466.0 | 7333.3 | 6806.9 | 6598.1 | 6896.6 | 7117.7 | 7307.8 | 7804.3 | 8655.4 | 9020.4 | 7376.4 |
| 52.5° | 7760.0 | 7671.5 | 7209.4 | 7101.1 | 7587.5 | 7911.5 | 8190.0 | 8784.9 | 9546.6 | 9619.6 | 7701.3 |
| 55° | 8046.4 | 7983.3 | 7641.7 | 7699.3 | 8399.1 | 8840.1 | 9192.9 | 9825.2 | 10313.9 | 10119.2 | 8013.2 |
| 57.5° | 8375.7 | 8318.3 | 8134.8 | 8457.6 | 9465.9 | 10021.0 | 10405.6 | 10747.2 | 10989.3 | 10630.1 | 8307.3 |
| 60° | 8711.9 | 8678.7 | 8683.1 | 9300.1 | 10690.9 | 11223.8 | 11436.1 | 11524.4 | 11652.8 | 11111.0 | 8323.9 |
| 62.5° | 9032.5 | 9095.6 | 9310.0 | 10237.7 | 11863.8 | 12273.0 | 12380.3 | 12467.5 | 12317.2 | 11187.3 | 7690.4 |
| 65° | 9575.4 | 9678.2 | 10190.1 | 11492.5 | 13154.2 | 13591.9 | 13702.4 | 13402.8 | 12422.2 | 10201.2 | 6255.3 |
| 67.5° | 9840.8 | 10028.7 | 10941.9 | 12662.1 | 14405.6 | 14892.0 | 14851.1 | 13463.6 | 11147.4 | 7778.9 | 4014.3 |
| 69° | 9785.3 | 9985.5 | 11115.4 | 13020.4 | 14821.2 | 15262.5 | 15002.7 | 12719.6 | 9496.8 | 5635.1 | 2464.3 |
| 70° | 9566.5 | 9768.8 | 11025.8 | 13007.1 | 14874.3 | 15223.8 | 14721.9 | 11800.9 | 8029.8 | 4120.4 | 1541.1 |
| 72.5° | 7988.8 | 8163.5 | 9788.7 | 11756.7 | 13702.4 | 13418.3 | 12316.0 | 8175.7 | 3912.6 | 1122.2 | 347.1 |
| 75° | 4917.6 | 5014.9 | 7023.7 | 8856.7 | 10349.3 | 9619.6 | 8205.6 | 4067.3 | 1166.4 | 317.3 | 192.3 |
| 77.5° | 2598.1 | 2642.4 | 3845.1 | 5220.5 | 6560.4 | 5428.4 | 4205.5 | 1586.4 | 537.2 | 199.1 | 139.2 |
| 80° | 1535.7 | 1568.8 | 2070.8 | 2386.9 | 2839.2 | 2371.4 | 1681.5 | 974.0 | 384.7 | 125.0 | 123.8 |
| 82.5° | 878.9 | 899.9 | 1501.3 | 1326.6 | 1118.7 | 955.2 | 837.0 | 923.2 | 231.0 | 84.0 | 128.3 |
| 85° | 322.9 | 327.3 | 844.6 | 1009.3 | 665.6 | 395.9 | 415.6 | 765.0 | 62.0 | 53.1 | 100.6 |
| 87.5° | 150.3 | 147.1 | 434.5 | 618.0 | 389.1 | 250.9 | 323.8 | 168.1 | 24.3 | 34.2 | 27.7 |
| 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° | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 |
| 2.5° | 2741.7 | 2700.9 | 2626.9 | 2550.6 | 2473.2 | 2413.4 | 2354.8 | 2308.5 | 2293.0 | 2264.2 | 2266.5 |
| 5° | 2657.7 | 2582.5 | 2427.8 | 2270.8 | 2107.2 | 1972.4 | 1845.2 | 1742.4 | 1692.6 | 1641.8 | 1641.8 |
| 7.5° | 2584.9 | 2475.4 | 2233.2 | 1977.9 | 1713.6 | 1491.5 | 1291.4 | 1140.9 | 1058.1 | 991.6 | 990.7 |
| 10° | 2557.1 | 2409.1 | 2070.8 | 1704.9 | 1336.7 | 1033.7 | 796.0 | 643.5 | 564.9 | 514.1 | 511.9 |
| 12.5° | 2569.3 | 2385.8 | 1945.8 | 1452.6 | 990.7 | 664.4 | 461.0 | 362.6 | 329.5 | 314.0 | 314.0 |
| 15° | 2604.7 | 2379.3 | 1820.9 | 1206.2 | 699.8 | 415.6 | 306.2 | 279.7 | 277.4 | 277.4 | 277.4 |
| 17.5° | 2647.8 | 2381.3 | 1692.6 | 966.2 | 476.6 | 297.3 | 264.2 | 260.9 | 263.2 | 263.2 | 263.2 |
| 20° | 2692.1 | 2382.6 | 1554.4 | 744.1 | 336.1 | 258.7 | 248.7 | 247.7 | 249.9 | 249.9 | 250.9 |
| 22.5° | 2746.3 | 2388.1 | 1416.3 | 556.1 | 277.4 | 244.2 | 236.7 | 236.7 | 237.7 | 237.7 | 236.7 |
| 25° | 2808.1 | 2399.2 | 1272.4 | 412.4 | 253.2 | 234.4 | 227.7 | 226.6 | 227.7 | 226.6 | 225.6 |
| 27.5° | 2885.5 | 2414.6 | 1112.2 | 322.9 | 242.2 | 224.4 | 218.8 | 218.8 | 217.7 | 216.8 | 215.7 |
| 30° | 2982.8 | 2432.3 | 932.0 | 274.3 | 231.0 | 215.7 | 210.1 | 208.9 | 207.9 | 205.6 | 205.6 |
| 32.5° | 3131.0 | 2471.0 | 753.9 | 248.7 | 218.8 | 203.5 | 199.1 | 199.1 | 196.8 | 194.7 | 193.4 |
| 35° | 3358.8 | 2547.2 | 594.8 | 233.3 | 205.6 | 190.1 | 184.6 | 184.6 | 182.4 | 181.3 | 180.2 |
| 37.5° | 3673.8 | 2663.4 | 462.1 | 218.8 | 192.3 | 175.8 | 170.3 | 169.2 | 166.9 | 164.7 | 163.6 |
| 40° | 4092.8 | 2807.1 | 363.8 | 205.6 | 179.1 | 161.4 | 157.1 | 154.8 | 150.3 | 147.1 | 147.1 |
| 42.5° | 4619.1 | 2970.7 | 295.3 | 191.2 | 163.6 | 148.1 | 144.8 | 141.6 | 133.8 | 130.4 | 129.4 |
| 45° | 5169.7 | 3117.7 | 249.9 | 174.7 | 148.1 | 134.8 | 132.7 | 127.1 | 117.1 | 113.8 | 113.8 |
| 47.5° | 5566.5 | 3152.1 | 220.1 | 159.2 | 133.8 | 120.6 | 119.5 | 109.5 | 100.6 | 98.5 | 97.2 |
| 50° | 5814.2 | 3084.5 | 195.7 | 143.6 | 120.6 | 107.3 | 103.9 | 91.7 | 86.2 | 84.0 | 83.0 |
| 52.5° | 5981.2 | 2964.0 | 175.8 | 130.4 | 108.3 | 95.1 | 87.3 | 78.5 | 74.1 | 71.9 | 71.9 |
| 55° | 6114.9 | 2793.8 | 155.9 | 118.2 | 98.5 | 85.1 | 74.1 | 67.5 | 63.1 | 60.8 | 60.8 |
| 57.5° | 6152.5 | 2562.8 | 136.1 | 108.3 | 88.5 | 75.2 | 63.1 | 58.6 | 53.1 | 51.9 | 51.9 |
| 60° | 5879.4 | 2146.0 | 120.6 | 96.2 | 79.6 | 65.2 | 55.2 | 49.8 | 44.2 | 43.1 | 42.0 |
| 62.5° | 5159.8 | 1660.5 | 106.1 | 85.1 | 69.7 | 56.4 | 47.5 | 41.0 | 36.6 | 36.6 | 36.6 |
| 65° | 3935.8 | 1113.3 | 92.9 | 74.1 | 60.8 | 47.5 | 41.0 | 33.1 | 30.9 | 30.9 | 32.1 |
| 67.5° | 2356.0 | 605.8 | 79.6 | 63.1 | 51.9 | 39.9 | 34.2 | 28.7 | 27.7 | 28.7 | 28.7 |
| 69° | 1380.9 | 356.0 | 71.9 | 56.4 | 45.4 | 35.4 | 29.9 | 25.4 | 27.7 | 28.7 | 28.7 |
| 70° | 852.4 | 239.8 | 66.4 | 50.8 | 41.0 | 32.1 | 27.7 | 24.3 | 26.5 | 27.7 | 27.7 |
| 72.5° | 237.7 | 123.8 | 53.1 | 39.9 | 33.1 | 26.5 | 22.1 | 22.1 | 25.4 | 26.5 | 26.5 |
| 75° | 154.8 | 91.7 | 41.0 | 29.9 | 25.4 | 21.0 | 18.8 | 21.0 | 24.3 | 25.4 | 25.4 |
| 77.5° | 128.3 | 75.2 | 33.1 | 24.3 | 21.0 | 19.9 | 17.6 | 18.8 | 22.1 | 23.3 | 23.3 |
| 80° | 117.1 | 53.1 | 26.5 | 22.1 | 18.8 | 17.6 | 16.6 | 15.5 | 19.9 | 21.0 | 21.0 |
| 82.5° | 111.7 | 42.0 | 23.3 | 19.9 | 17.6 | 15.5 | 14.4 | 15.5 | 17.6 | 18.8 | 19.9 |
| 85° | 69.7 | 27.7 | 21.0 | 18.8 | 15.5 | 14.4 | 14.4 | 14.4 | 16.6 | 17.6 | 17.6 |
| 87.5° | 25.4 | 22.1 | 18.8 | 15.5 | 13.2 | 13.2 | 13.2 | 13.2 | 14.4 | 16.6 | 16.6 |
| 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)