

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: P268440

Luminaire Tested: **GAN-AF-04-LED-U-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17821.7 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

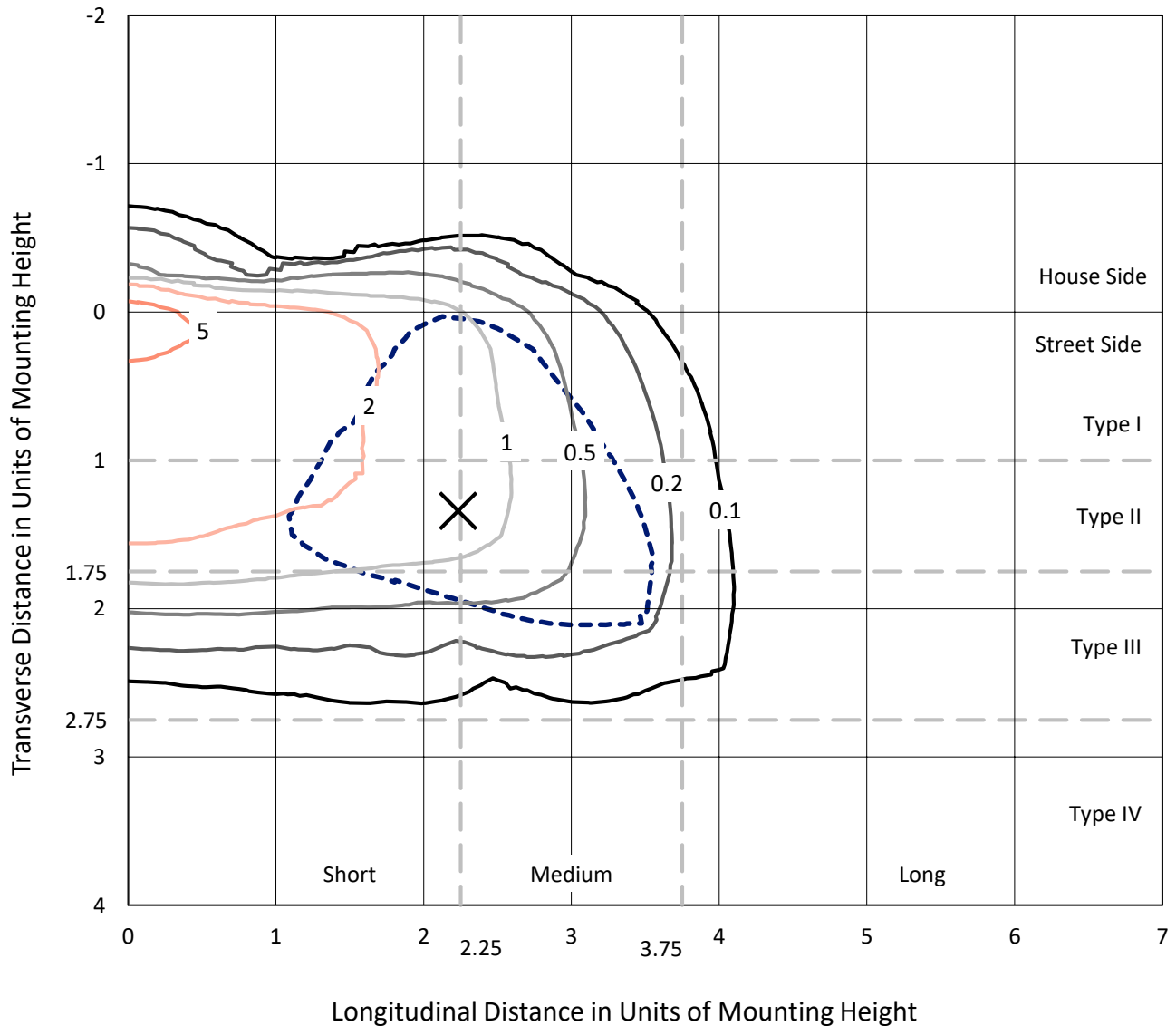
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

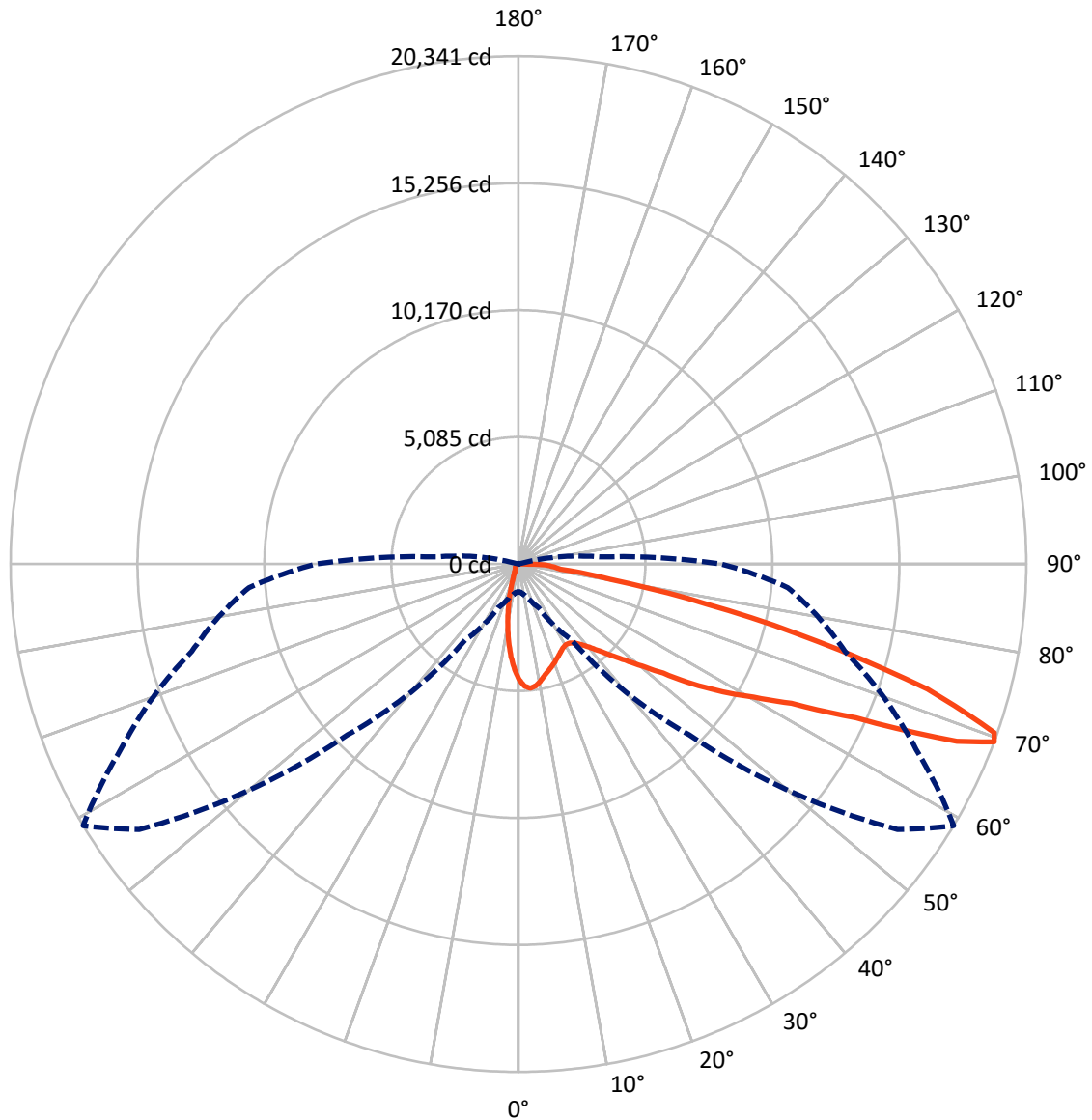
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1451.3 | 0.0 | 1451.3 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 16370.4 | 0.0 | 16370.4 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 17821.7 | 0.0 | 17821.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 376.5 | 2.1 |
| 10°-20° | 778.0 | 4.4 |
| 20°-30° | 1046.9 | 5.9 |
| 30°-40° | 1520.1 | 8.5 |
| 40°-50° | 2531.0 | 14.2 |
| 50°-60° | 3948.3 | 22.2 |
| 60°-70° | 4885.7 | 27.4 |
| 70°-80° | 2476.1 | 13.9 |
| 80°-90° | 259.1 | 1.5 |
| 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° | 17821.7 | 100.0 |
| 0°-180° | 17821.7 | 100.0 |



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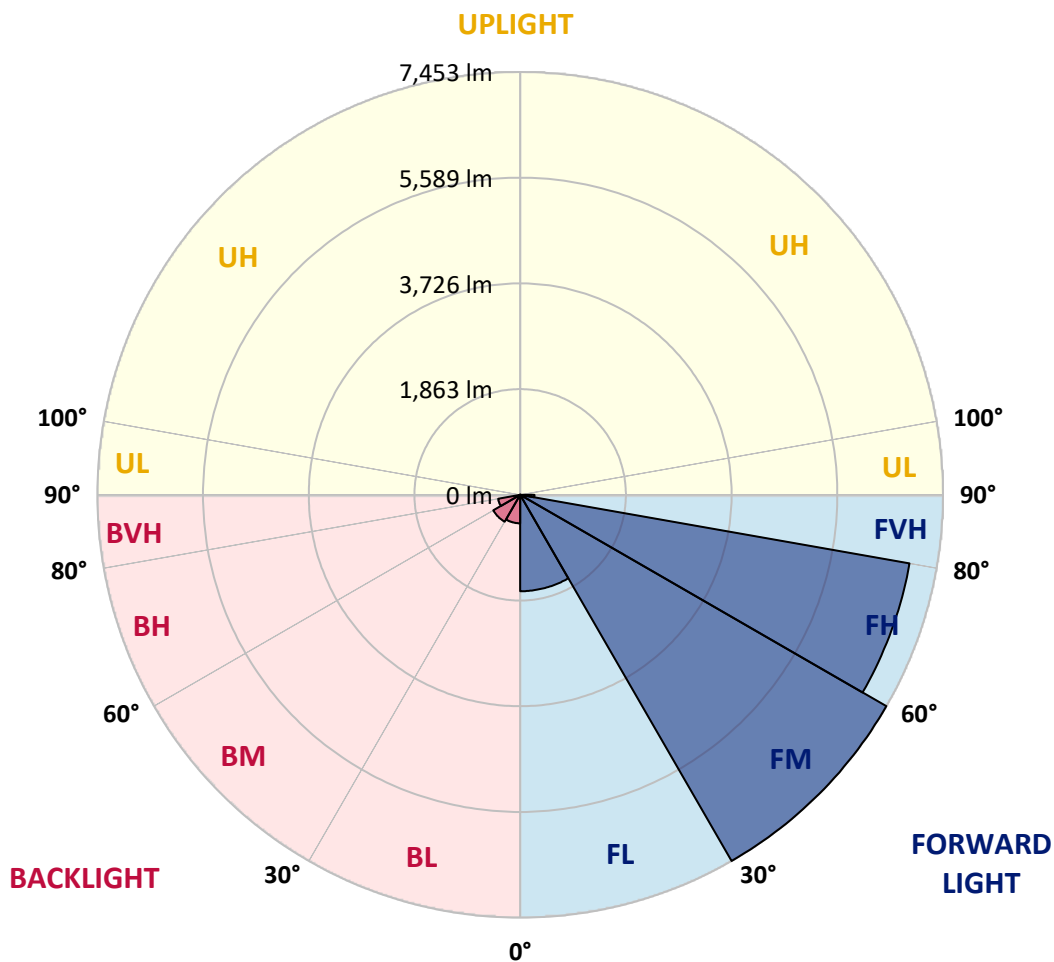
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1699.1 | 9.5 | | | |
| FM | (30°-60°) | 7452.5 | 41.8 | | | |
| FH | (60°-80°) | 6967.7 | 39.1 | | | G3/7500 |
| FVH | (80°-90°) | 251.1 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 502.4 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 546.9 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 394.2 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.0 | 0.0 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 |
| 2.5° | 5084.1 | 5082.3 | 5060.1 | 5049.9 | 5031.8 | 4993.5 | 4934.0 | 4902.8 | 4852.5 | 4764.7 | 4646.8 |
| 5° | 5037.9 | 5061.9 | 5075.2 | 5076.1 | 5089.2 | 5075.2 | 5021.7 | 4995.6 | 4925.9 | 4784.9 | 4573.2 |
| 7.5° | 4723.4 | 4732.5 | 4769.8 | 4802.0 | 4864.5 | 4924.0 | 4943.2 | 4932.1 | 4890.7 | 4739.5 | 4458.4 |
| 10° | 4386.9 | 4395.9 | 4440.2 | 4482.5 | 4567.3 | 4658.9 | 4755.6 | 4775.7 | 4792.9 | 4675.0 | 4347.4 |
| 12.5° | 4096.6 | 4105.7 | 4151.0 | 4206.5 | 4305.1 | 4418.0 | 4568.2 | 4601.5 | 4677.0 | 4613.5 | 4258.9 |
| 15° | 3846.6 | 3850.7 | 3895.1 | 3963.5 | 4081.4 | 4226.5 | 4396.8 | 4450.4 | 4566.2 | 4570.2 | 4181.3 |
| 17.5° | 3634.1 | 3644.1 | 3671.4 | 3736.8 | 3865.8 | 4045.2 | 4243.8 | 4320.3 | 4456.3 | 4533.9 | 4105.7 |
| 20° | 3504.0 | 3514.1 | 3513.1 | 3549.4 | 3665.3 | 3856.8 | 4090.5 | 4182.1 | 4347.4 | 4496.6 | 4038.2 |
| 22.5° | 3478.9 | 3478.9 | 3452.6 | 3447.5 | 3516.1 | 3676.4 | 3931.3 | 4043.1 | 4249.7 | 4480.6 | 3990.8 |
| 25° | 3568.4 | 3564.5 | 3499.0 | 3445.5 | 3448.6 | 3544.4 | 3777.2 | 3910.1 | 4167.1 | 4491.6 | 3965.6 |
| 27.5° | 3758.0 | 3752.8 | 3670.2 | 3568.4 | 3487.0 | 3485.9 | 3660.2 | 3803.3 | 4101.7 | 4544.0 | 3975.7 |
| 30° | 4019.9 | 4017.9 | 3928.3 | 3800.3 | 3652.1 | 3516.1 | 3619.9 | 3750.0 | 4059.4 | 4638.8 | 3998.9 |
| 32.5° | 4306.1 | 4303.2 | 4235.7 | 4100.7 | 3913.1 | 3652.1 | 3662.2 | 3771.1 | 4071.4 | 4764.7 | 4055.3 |
| 35° | 4609.6 | 4604.5 | 4575.2 | 4457.4 | 4250.8 | 3903.0 | 3801.3 | 3886.0 | 4148.0 | 4953.2 | 4166.1 |
| 37.5° | 4938.1 | 4943.2 | 4964.3 | 4851.3 | 4634.7 | 4254.8 | 4034.1 | 4091.5 | 4302.2 | 5209.1 | 4346.4 |
| 40° | 5422.8 | 5421.8 | 5428.8 | 5280.6 | 5072.1 | 4685.1 | 4359.7 | 4377.7 | 4560.2 | 5548.8 | 4620.6 |
| 42.5° | 6302.6 | 6241.2 | 6054.7 | 5752.3 | 5542.7 | 5176.9 | 4769.8 | 4750.5 | 4875.6 | 5969.0 | 5004.5 |
| 45° | 7484.7 | 7353.6 | 6870.0 | 6290.6 | 6022.3 | 5731.1 | 5274.7 | 5213.1 | 5292.9 | 6473.8 | 5478.3 |
| 47.5° | 8501.5 | 8365.5 | 7681.1 | 6850.8 | 6531.3 | 6257.2 | 5866.2 | 5755.4 | 5781.5 | 7039.3 | 6078.8 |
| 50° | 8847.1 | 8780.7 | 8183.1 | 7338.6 | 7024.1 | 6919.4 | 6552.4 | 6417.4 | 6380.2 | 7693.4 | 6775.2 |
| 52.5° | 8727.3 | 8722.3 | 8324.1 | 7654.9 | 7475.6 | 7604.6 | 7416.1 | 7259.9 | 7122.9 | 8382.7 | 7483.7 |
| 55° | 8534.7 | 8559.9 | 8381.5 | 7932.2 | 7926.0 | 8230.5 | 8597.3 | 8467.2 | 8070.3 | 9131.5 | 8094.4 |
| 57.5° | 8003.7 | 8111.5 | 8349.3 | 8456.1 | 8704.0 | 9015.5 | 9580.9 | 9657.4 | 9187.9 | 9704.7 | 8601.4 |
| 60° | 6494.0 | 6730.9 | 7508.9 | 8531.7 | 9706.8 | 10482.9 | 10768.1 | 10833.5 | 10104.9 | 10181.5 | 9285.6 |
| 62.5° | 4609.6 | 4851.3 | 5837.9 | 7568.3 | 9721.9 | 12410.7 | 12536.7 | 12279.7 | 11114.6 | 10887.8 | 10465.7 |
| 65° | 2446.9 | 2633.3 | 3439.5 | 5463.1 | 8428.9 | 12858.1 | 15629.5 | 14863.5 | 12896.3 | 12277.7 | 11990.3 |
| 67.5° | 1251.7 | 1308.1 | 1628.5 | 2673.6 | 5794.6 | 11421.1 | 18401.8 | 18941.0 | 15967.1 | 13656.3 | 11916.8 |
| 69° | 1107.5 | 1140.8 | 1353.4 | 1933.0 | 3710.5 | 9673.6 | 18536.9 | 20340.9 | 17574.4 | 13541.4 | 10829.4 |
| 70° | 1072.2 | 1101.5 | 1294.9 | 1749.4 | 2900.4 | 8112.6 | 18019.9 | 20217.9 | 17985.7 | 13103.9 | 10017.2 |
| 72.5° | 910.1 | 935.2 | 1152.9 | 1546.0 | 2357.2 | 4027.0 | 14637.8 | 17132.0 | 16139.4 | 10916.2 | 7250.8 |
| 75° | 608.7 | 691.3 | 1106.5 | 1449.1 | 2192.9 | 2287.7 | 9650.4 | 12380.4 | 11500.6 | 7362.8 | 3777.2 |
| 77.5° | 146.2 | 157.3 | 312.4 | 1152.9 | 2005.5 | 2013.6 | 4963.2 | 7696.3 | 6277.4 | 2624.2 | 892.8 |
| 80° | 78.6 | 75.5 | 87.7 | 228.8 | 1867.3 | 1889.6 | 2234.3 | 3735.8 | 2241.4 | 435.4 | 294.3 |
| 82.5° | 55.4 | 52.5 | 56.5 | 95.7 | 587.5 | 1721.2 | 1616.5 | 1691.0 | 929.1 | 167.3 | 132.1 |
| 85° | 20.1 | 19.1 | 31.3 | 86.6 | 184.4 | 989.7 | 1660.7 | 1394.8 | 752.8 | 76.5 | 96.7 |
| 87.5° | 7.0 | 6.1 | 12.0 | 47.4 | 56.5 | 421.2 | 1024.8 | 1054.2 | 296.4 | 46.4 | 45.4 |
| 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° | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 | 4638.8 |
| 2.5° | 4597.4 | 4535.0 | 4420.1 | 4302.2 | 4193.3 | 4062.3 | 3996.7 | 3932.3 | 3905.1 | 3895.1 | 3847.7 |
| 5° | 4464.3 | 4358.5 | 4114.6 | 3869.8 | 3644.1 | 3404.2 | 3246.0 | 3119.1 | 3044.4 | 3008.2 | 2950.8 |
| 7.5° | 4294.1 | 4120.7 | 3751.0 | 3373.0 | 3021.3 | 2674.7 | 2417.6 | 2220.2 | 2084.1 | 2018.5 | 1959.2 |
| 10° | 4128.8 | 3898.0 | 3372.0 | 2857.0 | 2379.3 | 1919.8 | 1565.0 | 1308.1 | 1143.8 | 1068.3 | 1019.8 |
| 12.5° | 3980.7 | 3681.3 | 3006.2 | 2354.2 | 1754.5 | 1216.3 | 855.5 | 651.0 | 549.3 | 514.0 | 496.9 |
| 15° | 3848.7 | 3481.8 | 2660.5 | 1876.5 | 1188.2 | 695.4 | 467.6 | 398.0 | 382.0 | 382.0 | 380.0 |
| 17.5° | 3723.7 | 3286.3 | 2326.9 | 1427.9 | 745.8 | 425.3 | 355.8 | 346.7 | 346.7 | 350.7 | 350.7 |
| 20° | 3603.8 | 3100.0 | 2004.5 | 1024.8 | 469.6 | 337.7 | 321.5 | 319.4 | 321.5 | 326.5 | 326.5 |
| 22.5° | 3501.0 | 2930.6 | 1703.1 | 703.5 | 348.7 | 304.3 | 296.4 | 293.2 | 294.3 | 297.2 | 299.3 |
| 25° | 3424.3 | 2787.5 | 1419.0 | 476.7 | 300.4 | 277.1 | 268.1 | 263.1 | 259.0 | 259.0 | 261.0 |
| 27.5° | 3376.0 | 2666.6 | 1143.8 | 346.7 | 270.1 | 252.0 | 237.8 | 229.7 | 220.8 | 215.7 | 217.7 |
| 30° | 3340.7 | 2551.6 | 885.8 | 283.1 | 241.9 | 223.7 | 205.6 | 192.4 | 179.4 | 173.4 | 175.3 |
| 32.5° | 3327.6 | 2458.9 | 662.1 | 249.9 | 216.8 | 196.5 | 174.4 | 157.3 | 143.1 | 138.1 | 139.1 |
| 35° | 3363.0 | 2385.4 | 484.7 | 225.7 | 196.5 | 171.3 | 146.2 | 127.0 | 115.9 | 112.8 | 113.8 |
| 37.5° | 3455.6 | 2346.1 | 362.7 | 205.6 | 178.4 | 150.1 | 121.9 | 103.8 | 96.7 | 96.7 | 97.7 |
| 40° | 3630.9 | 2345.0 | 291.2 | 191.5 | 162.2 | 130.1 | 100.8 | 87.7 | 83.6 | 85.7 | 86.6 |
| 42.5° | 3887.0 | 2398.5 | 254.0 | 178.4 | 148.1 | 110.9 | 83.6 | 74.6 | 73.7 | 75.5 | 76.5 |
| 45° | 4236.6 | 2496.2 | 233.7 | 167.3 | 132.9 | 92.7 | 70.5 | 64.5 | 64.5 | 67.6 | 68.5 |
| 47.5° | 4665.0 | 2639.3 | 216.8 | 156.2 | 117.9 | 77.7 | 60.5 | 56.5 | 57.4 | 60.5 | 61.4 |
| 50° | 5181.0 | 2819.7 | 199.6 | 144.1 | 106.8 | 64.5 | 52.5 | 49.3 | 50.3 | 54.3 | 55.4 |
| 52.5° | 5768.5 | 3062.6 | 185.4 | 132.9 | 92.7 | 53.4 | 44.3 | 42.3 | 44.3 | 48.4 | 49.3 |
| 55° | 6272.3 | 3280.3 | 168.3 | 124.0 | 74.6 | 44.3 | 36.3 | 36.3 | 38.3 | 43.4 | 44.3 |
| 57.5° | 6757.1 | 3508.1 | 153.3 | 106.8 | 58.5 | 35.3 | 30.3 | 31.3 | 34.2 | 39.3 | 40.3 |
| 60° | 7468.6 | 3894.1 | 135.0 | 89.7 | 44.3 | 28.1 | 25.2 | 26.2 | 30.3 | 35.3 | 36.3 |
| 62.5° | 8676.9 | 4481.6 | 116.9 | 74.6 | 34.2 | 22.2 | 20.1 | 22.2 | 27.2 | 33.2 | 34.2 |
| 65° | 9767.4 | 4720.4 | 95.7 | 62.5 | 26.2 | 17.2 | 17.2 | 20.1 | 26.2 | 32.2 | 33.2 |
| 67.5° | 9159.6 | 3973.7 | 74.6 | 49.3 | 20.1 | 13.0 | 14.2 | 19.1 | 25.2 | 32.2 | 33.2 |
| 69° | 8100.5 | 3249.0 | 63.5 | 39.3 | 17.2 | 12.0 | 13.0 | 19.1 | 25.2 | 31.3 | 32.2 |
| 70° | 7275.1 | 2743.2 | 56.5 | 33.2 | 15.1 | 12.0 | 13.0 | 18.1 | 25.2 | 31.3 | 32.2 |
| 72.5° | 4872.5 | 1481.5 | 45.4 | 24.2 | 14.2 | 11.0 | 11.0 | 18.1 | 24.2 | 30.3 | 31.3 |
| 75° | 2094.2 | 409.2 | 36.3 | 17.2 | 12.0 | 10.2 | 10.2 | 17.2 | 23.1 | 29.3 | 31.3 |
| 77.5° | 382.9 | 103.8 | 29.3 | 15.1 | 12.0 | 10.2 | 9.1 | 16.1 | 22.2 | 28.1 | 29.3 |
| 80° | 152.2 | 51.5 | 23.1 | 13.0 | 11.0 | 9.1 | 8.1 | 15.1 | 21.2 | 27.2 | 28.1 |
| 82.5° | 91.6 | 29.3 | 19.1 | 12.0 | 11.0 | 8.1 | 7.0 | 13.0 | 20.1 | 26.2 | 27.2 |
| 85° | 74.6 | 20.1 | 15.1 | 12.0 | 10.2 | 8.1 | 6.1 | 12.0 | 18.1 | 25.2 | 26.2 |
| 87.5° | 36.3 | 14.2 | 14.2 | 11.0 | 10.2 | 8.1 | 6.1 | 11.0 | 17.2 | 24.2 | 25.2 |
| 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)