

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: P191922

Luminaire Tested: **GAN-AF-04-LED-U-SL3-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191922
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-SL3-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA 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: 16574 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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

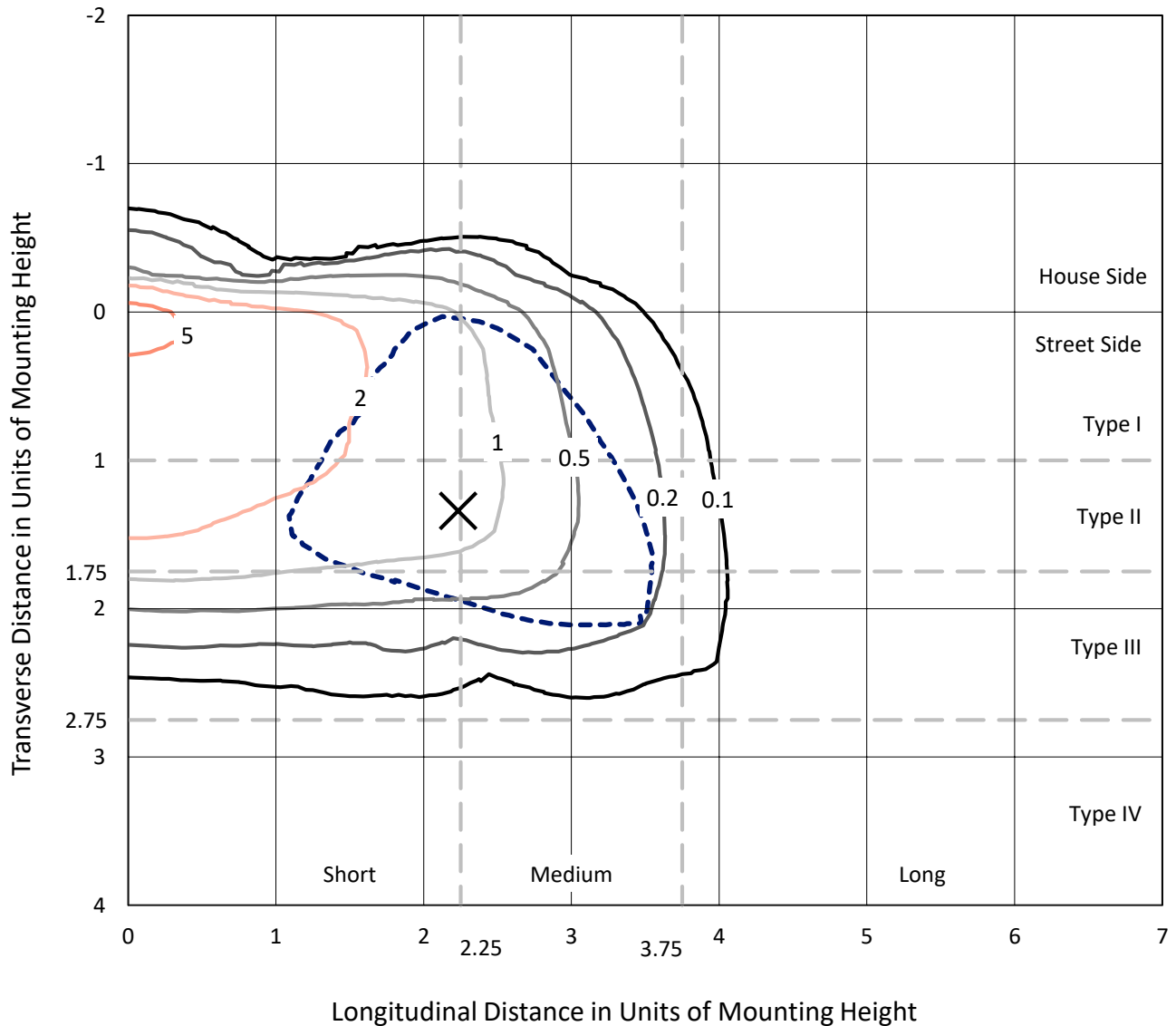


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

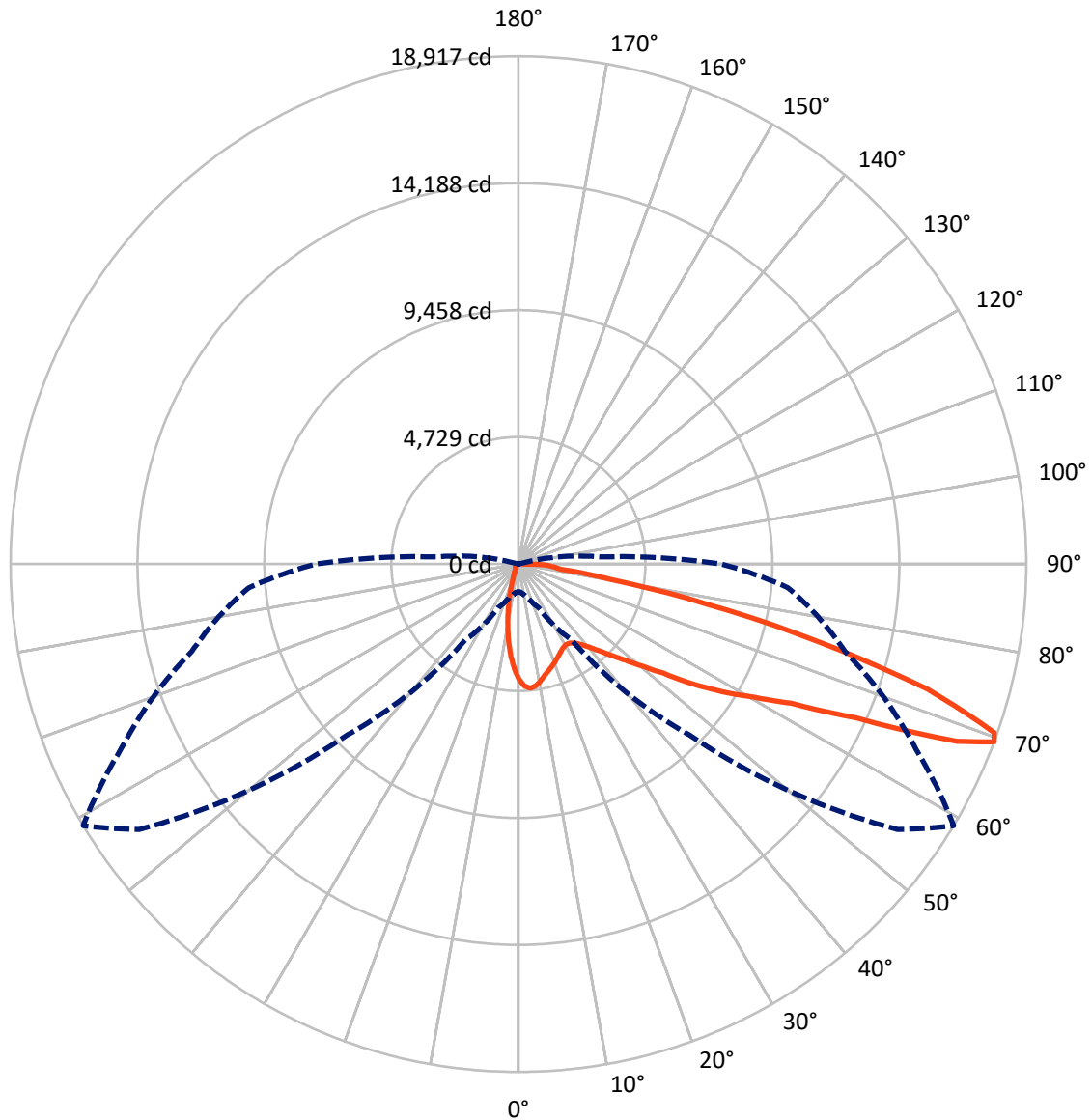


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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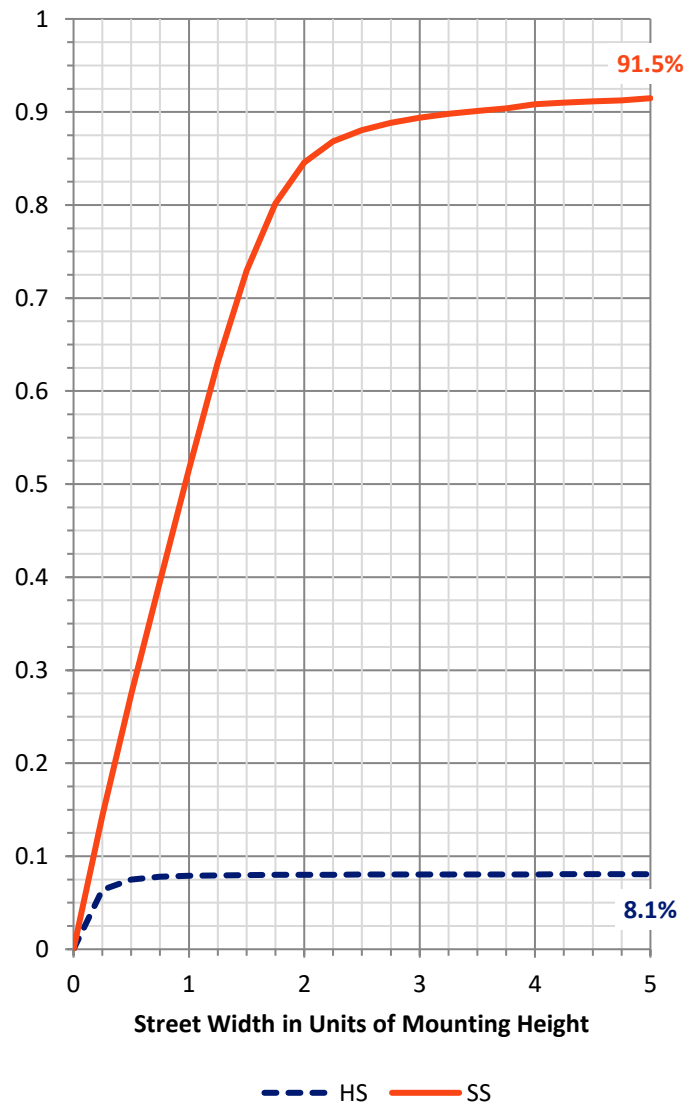
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1349.7 | 0.0 | 1349.7 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 15224.3 | 0.0 | 15224.3 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 16574.0 | 0.0 | 16574.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 350.2 | 2.1 |
| 10°-20° | 723.5 | 4.4 |
| 20°-30° | 973.6 | 5.9 |
| 30°-40° | 1413.6 | 8.5 |
| 40°-50° | 2353.8 | 14.2 |
| 50°-60° | 3671.9 | 22.2 |
| 60°-70° | 4543.7 | 27.4 |
| 70°-80° | 2302.7 | 13.9 |
| 80°-90° | 240.9 | 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° | 16574.0 | 100.0 |
| 0°-180° | 16574.0 | 100.0 |



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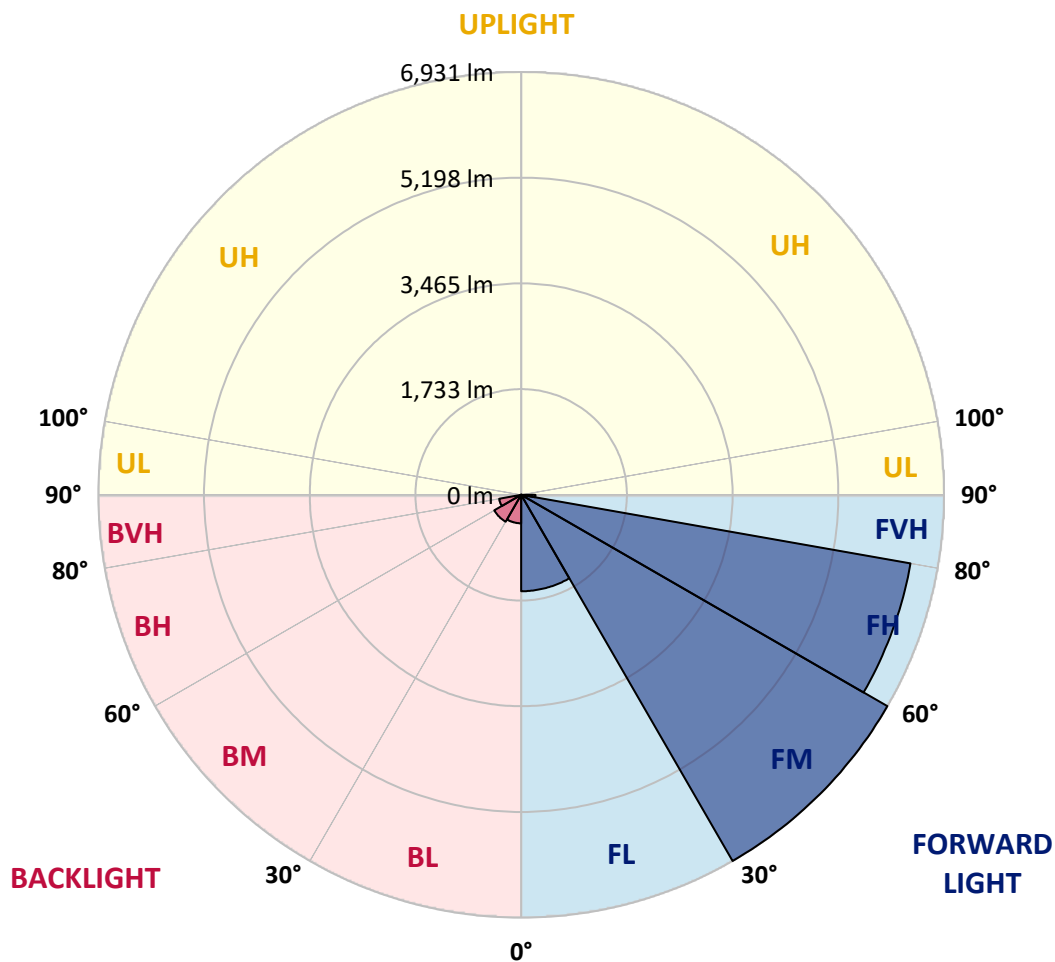
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1580.1 | 9.5 | | | |
| FM | (30°-60°) | 6930.8 | 41.8 | | | |
| FH | (60°-80°) | 6479.8 | 39.1 | | | G3/7500 |
| FVH | (80°-90°) | 233.5 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 467.2 | 2.8 | B1/500 | | |
| BM | (30°-60°) | 508.6 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 366.6 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 7.4 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 |
| 2.5° | 4728.2 | 4726.4 | 4705.7 | 4696.4 | 4679.5 | 4643.9 | 4588.6 | 4559.5 | 4512.7 | 4431.1 | 4321.5 |
| 5° | 4685.1 | 4707.6 | 4719.8 | 4720.7 | 4732.9 | 4719.8 | 4670.1 | 4645.8 | 4581.1 | 4449.9 | 4253.1 |
| 7.5° | 4392.7 | 4401.1 | 4435.8 | 4465.8 | 4523.9 | 4579.2 | 4597.0 | 4586.7 | 4548.3 | 4407.7 | 4146.2 |
| 10° | 4079.7 | 4088.1 | 4129.4 | 4168.7 | 4247.4 | 4332.7 | 4422.7 | 4441.4 | 4457.4 | 4347.7 | 4043.1 |
| 12.5° | 3809.8 | 3818.2 | 3860.4 | 3911.9 | 4003.8 | 4108.7 | 4248.4 | 4279.3 | 4349.6 | 4290.6 | 3960.7 |
| 15° | 3577.3 | 3581.1 | 3622.3 | 3686.1 | 3795.7 | 3930.7 | 4089.1 | 4138.7 | 4246.5 | 4250.3 | 3888.5 |
| 17.5° | 3379.6 | 3389.0 | 3414.3 | 3475.2 | 3595.1 | 3762.0 | 3946.6 | 4017.8 | 4144.3 | 4216.5 | 3818.2 |
| 20° | 3258.7 | 3268.1 | 3267.1 | 3300.9 | 3408.6 | 3586.7 | 3804.1 | 3889.4 | 4043.1 | 4181.8 | 3755.4 |
| 22.5° | 3235.3 | 3235.3 | 3210.9 | 3206.2 | 3269.9 | 3418.9 | 3656.1 | 3760.1 | 3952.2 | 4166.8 | 3711.4 |
| 25° | 3318.7 | 3314.9 | 3254.0 | 3204.3 | 3207.1 | 3296.2 | 3512.7 | 3636.4 | 3875.4 | 4177.2 | 3687.9 |
| 27.5° | 3494.9 | 3490.2 | 3413.3 | 3318.7 | 3242.8 | 3241.8 | 3404.0 | 3537.0 | 3814.4 | 4225.9 | 3697.3 |
| 30° | 3738.5 | 3736.7 | 3653.2 | 3534.2 | 3396.5 | 3269.9 | 3366.5 | 3487.4 | 3775.1 | 4314.0 | 3718.9 |
| 32.5° | 4004.7 | 4001.9 | 3939.1 | 3813.5 | 3639.2 | 3396.5 | 3405.8 | 3507.0 | 3786.3 | 4431.1 | 3771.3 |
| 35° | 4286.8 | 4282.1 | 4254.9 | 4145.3 | 3953.2 | 3629.8 | 3535.2 | 3613.9 | 3857.6 | 4606.4 | 3874.4 |
| 37.5° | 4592.3 | 4597.0 | 4616.7 | 4511.7 | 4310.2 | 3956.9 | 3751.7 | 3805.1 | 4001.0 | 4844.4 | 4042.2 |
| 40° | 5043.1 | 5042.2 | 5048.8 | 4911.0 | 4717.0 | 4357.1 | 4054.4 | 4071.2 | 4240.9 | 5160.3 | 4297.1 |
| 42.5° | 5861.3 | 5804.1 | 5630.8 | 5349.6 | 5154.7 | 4814.5 | 4435.8 | 4418.0 | 4534.2 | 5551.1 | 4654.2 |
| 45° | 6960.7 | 6838.8 | 6389.0 | 5850.1 | 5600.8 | 5329.9 | 4905.4 | 4848.2 | 4922.2 | 6020.6 | 5094.7 |
| 47.5° | 7906.3 | 7779.8 | 7143.4 | 6371.2 | 6074.1 | 5819.1 | 5455.5 | 5352.4 | 5376.8 | 6546.4 | 5653.3 |
| 50° | 8227.8 | 8165.9 | 7610.2 | 6824.8 | 6532.4 | 6434.9 | 6093.7 | 5968.2 | 5933.5 | 7154.7 | 6300.9 |
| 52.5° | 8116.2 | 8111.6 | 7741.4 | 7119.1 | 6952.2 | 7072.2 | 6896.9 | 6751.7 | 6624.2 | 7795.7 | 6959.7 |
| 55° | 7937.2 | 7960.7 | 7794.8 | 7376.8 | 7371.2 | 7654.2 | 7995.3 | 7874.4 | 7505.2 | 8492.1 | 7527.7 |
| 57.5° | 7443.3 | 7543.6 | 7764.8 | 7864.1 | 8094.7 | 8384.3 | 8910.1 | 8981.3 | 8544.6 | 9025.3 | 7999.1 |
| 60° | 6039.4 | 6259.6 | 6983.2 | 7934.4 | 9027.2 | 9748.9 | 10014.1 | 10075.0 | 9397.4 | 9468.6 | 8635.5 |
| 62.5° | 4286.8 | 4511.7 | 5429.3 | 7038.5 | 9041.3 | 11541.8 | 11658.9 | 11419.9 | 10336.5 | 10125.6 | 9732.9 |
| 65° | 2275.5 | 2448.9 | 3198.7 | 5080.6 | 7838.8 | 11957.9 | 14535.2 | 13822.9 | 11993.5 | 11418.0 | 11150.9 |
| 67.5° | 1164.0 | 1216.5 | 1514.5 | 2486.4 | 5389.0 | 10621.4 | 17113.5 | 17614.9 | 14849.2 | 12700.1 | 11082.5 |
| 69° | 1030.0 | 1060.9 | 1258.7 | 1797.6 | 3450.8 | 8996.3 | 17239.1 | 18916.7 | 16344.0 | 12593.3 | 10071.3 |
| 70° | 997.2 | 1024.4 | 1204.3 | 1627.0 | 2697.3 | 7544.5 | 16758.3 | 18802.3 | 16726.4 | 12186.6 | 9315.9 |
| 72.5° | 846.3 | 869.7 | 1072.2 | 1437.7 | 2192.1 | 3745.1 | 13613.0 | 15932.6 | 15009.4 | 10151.9 | 6743.2 |
| 75° | 566.1 | 642.9 | 1029.1 | 1347.7 | 2039.4 | 2127.5 | 8974.7 | 11513.6 | 10695.5 | 6847.3 | 3512.7 |
| 77.5° | 135.9 | 146.2 | 290.5 | 1072.2 | 1865.1 | 1872.5 | 4615.8 | 7157.5 | 5837.9 | 2440.5 | 830.4 |
| 80° | 73.1 | 70.3 | 81.5 | 212.7 | 1736.7 | 1757.3 | 2077.8 | 3474.2 | 2084.4 | 404.9 | 273.7 |
| 82.5° | 51.5 | 48.7 | 52.5 | 89.0 | 546.4 | 1600.8 | 1503.3 | 1572.6 | 864.1 | 155.6 | 122.8 |
| 85° | 18.7 | 17.8 | 29.1 | 80.6 | 171.5 | 920.3 | 1544.5 | 1297.1 | 700.1 | 71.2 | 90.0 |
| 87.5° | 6.6 | 5.6 | 11.2 | 44.0 | 52.5 | 391.8 | 953.1 | 980.3 | 275.5 | 43.1 | 42.2 |
| 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° | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 | 4314.0 |
| 2.5° | 4275.6 | 4217.5 | 4110.6 | 4001.0 | 3899.7 | 3777.9 | 3717.0 | 3657.0 | 3631.7 | 3622.3 | 3578.3 |
| 5° | 4151.8 | 4053.4 | 3826.6 | 3598.9 | 3389.0 | 3165.9 | 3018.8 | 2900.7 | 2831.3 | 2797.6 | 2744.2 |
| 7.5° | 3993.5 | 3832.3 | 3488.3 | 3136.8 | 2809.8 | 2487.4 | 2248.4 | 2064.7 | 1938.2 | 1877.2 | 1821.9 |
| 10° | 3839.8 | 3625.1 | 3135.9 | 2657.0 | 2212.8 | 1785.4 | 1455.5 | 1216.5 | 1063.7 | 993.4 | 948.5 |
| 12.5° | 3702.0 | 3423.6 | 2795.7 | 2189.3 | 1631.7 | 1131.2 | 795.7 | 605.4 | 510.8 | 478.0 | 462.0 |
| 15° | 3579.2 | 3238.1 | 2474.2 | 1745.1 | 1105.0 | 646.7 | 434.9 | 370.2 | 355.2 | 355.2 | 353.3 |
| 17.5° | 3463.0 | 3056.2 | 2164.0 | 1328.0 | 693.5 | 395.5 | 330.8 | 322.4 | 322.4 | 326.1 | 326.1 |
| 20° | 3351.5 | 2882.9 | 1864.1 | 953.1 | 436.7 | 314.0 | 299.0 | 297.1 | 299.0 | 303.7 | 303.7 |
| 22.5° | 3255.9 | 2725.4 | 1583.9 | 654.2 | 324.3 | 283.0 | 275.5 | 272.7 | 273.7 | 276.5 | 278.4 |
| 25° | 3184.6 | 2592.3 | 1319.6 | 443.3 | 279.3 | 257.7 | 249.3 | 244.6 | 240.9 | 240.9 | 242.7 |
| 27.5° | 3139.7 | 2479.9 | 1063.7 | 322.4 | 251.2 | 234.3 | 221.2 | 213.7 | 205.2 | 200.6 | 202.4 |
| 30° | 3106.9 | 2373.0 | 823.8 | 263.4 | 224.9 | 208.1 | 191.2 | 179.0 | 166.8 | 161.2 | 163.1 |
| 32.5° | 3094.7 | 2286.8 | 615.7 | 232.4 | 201.5 | 182.8 | 162.1 | 146.2 | 133.1 | 128.4 | 129.3 |
| 35° | 3127.5 | 2218.4 | 450.8 | 209.9 | 182.8 | 159.3 | 135.9 | 118.1 | 107.8 | 105.0 | 105.9 |
| 37.5° | 3213.7 | 2181.8 | 337.4 | 191.2 | 165.9 | 139.6 | 113.4 | 96.5 | 90.0 | 90.0 | 90.9 |
| 40° | 3376.8 | 2180.9 | 270.9 | 178.1 | 150.9 | 120.9 | 93.7 | 81.5 | 77.8 | 79.7 | 80.6 |
| 42.5° | 3614.8 | 2230.6 | 236.2 | 165.9 | 137.8 | 103.1 | 77.8 | 69.4 | 68.4 | 70.3 | 71.2 |
| 45° | 3940.0 | 2321.5 | 217.4 | 155.6 | 123.7 | 86.2 | 65.6 | 60.0 | 60.0 | 62.8 | 63.7 |
| 47.5° | 4338.4 | 2454.6 | 201.5 | 145.3 | 109.7 | 72.2 | 56.2 | 52.5 | 53.4 | 56.2 | 57.2 |
| 50° | 4818.2 | 2622.3 | 185.6 | 134.0 | 99.3 | 60.0 | 48.7 | 45.9 | 46.9 | 50.6 | 51.5 |
| 52.5° | 5364.6 | 2848.2 | 172.4 | 123.7 | 86.2 | 49.7 | 41.2 | 39.4 | 41.2 | 45.0 | 45.9 |
| 55° | 5833.2 | 3050.6 | 156.5 | 115.3 | 69.4 | 41.2 | 33.7 | 33.7 | 35.6 | 40.3 | 41.2 |
| 57.5° | 6284.0 | 3262.4 | 142.5 | 99.3 | 54.4 | 32.8 | 28.1 | 29.1 | 31.9 | 36.6 | 37.5 |
| 60° | 6945.7 | 3621.4 | 125.6 | 83.4 | 41.2 | 26.2 | 23.4 | 24.4 | 28.1 | 32.8 | 33.7 |
| 62.5° | 8069.4 | 4167.8 | 108.7 | 69.4 | 31.9 | 20.6 | 18.7 | 20.6 | 25.3 | 30.9 | 31.9 |
| 65° | 9083.5 | 4389.9 | 89.0 | 58.1 | 24.4 | 15.9 | 15.9 | 18.7 | 24.4 | 30.0 | 30.9 |
| 67.5° | 8518.3 | 3695.4 | 69.4 | 45.9 | 18.7 | 12.2 | 13.1 | 17.8 | 23.4 | 30.0 | 30.9 |
| 69° | 7533.3 | 3021.6 | 59.0 | 36.6 | 15.9 | 11.2 | 12.2 | 17.8 | 23.4 | 29.1 | 30.0 |
| 70° | 6765.7 | 2551.1 | 52.5 | 30.9 | 14.1 | 11.2 | 12.2 | 16.9 | 23.4 | 29.1 | 30.0 |
| 72.5° | 4531.4 | 1377.7 | 42.2 | 22.5 | 13.1 | 10.3 | 10.3 | 16.9 | 22.5 | 28.1 | 29.1 |
| 75° | 1947.5 | 380.5 | 33.7 | 15.9 | 11.2 | 9.4 | 9.4 | 15.9 | 21.6 | 27.2 | 29.1 |
| 77.5° | 356.1 | 96.5 | 27.2 | 14.1 | 11.2 | 9.4 | 8.4 | 15.0 | 20.6 | 26.2 | 27.2 |
| 80° | 141.5 | 47.8 | 21.6 | 12.2 | 10.3 | 8.4 | 7.5 | 14.1 | 19.7 | 25.3 | 26.2 |
| 82.5° | 85.3 | 27.2 | 17.8 | 11.2 | 10.3 | 7.5 | 6.6 | 12.2 | 18.7 | 24.4 | 25.3 |
| 85° | 69.4 | 18.7 | 14.1 | 11.2 | 9.4 | 7.5 | 5.6 | 11.2 | 16.9 | 23.4 | 24.4 |
| 87.5° | 33.7 | 13.1 | 13.1 | 10.3 | 9.4 | 7.5 | 5.6 | 10.3 | 15.9 | 22.5 | 23.4 |
| 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)