

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: P194536

Luminaire Tested: **GAN-AF-08-LED-U-SL4-7060-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194536
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-08-LED-U-SL4-7060-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA 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: 25510 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 257
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

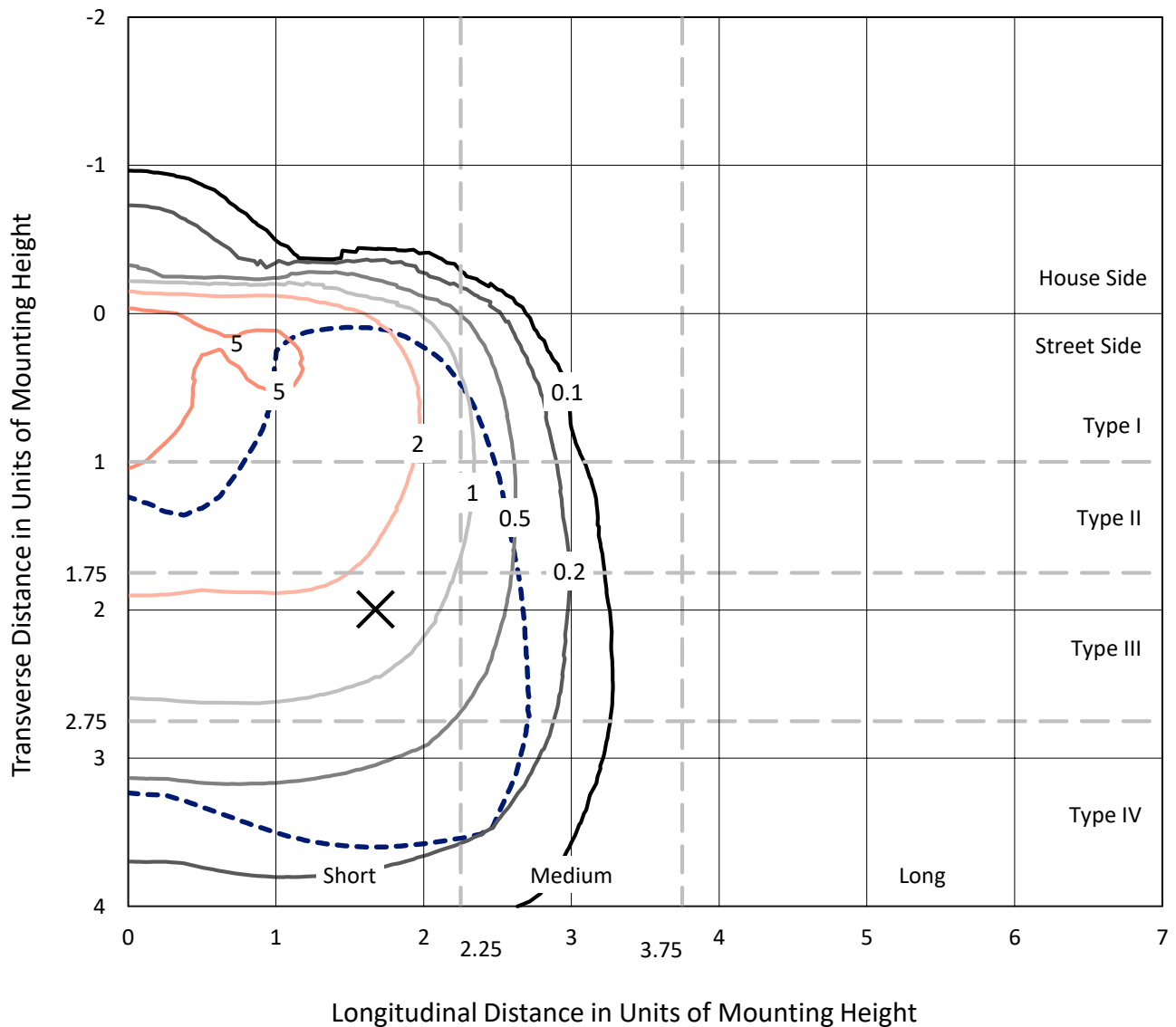


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

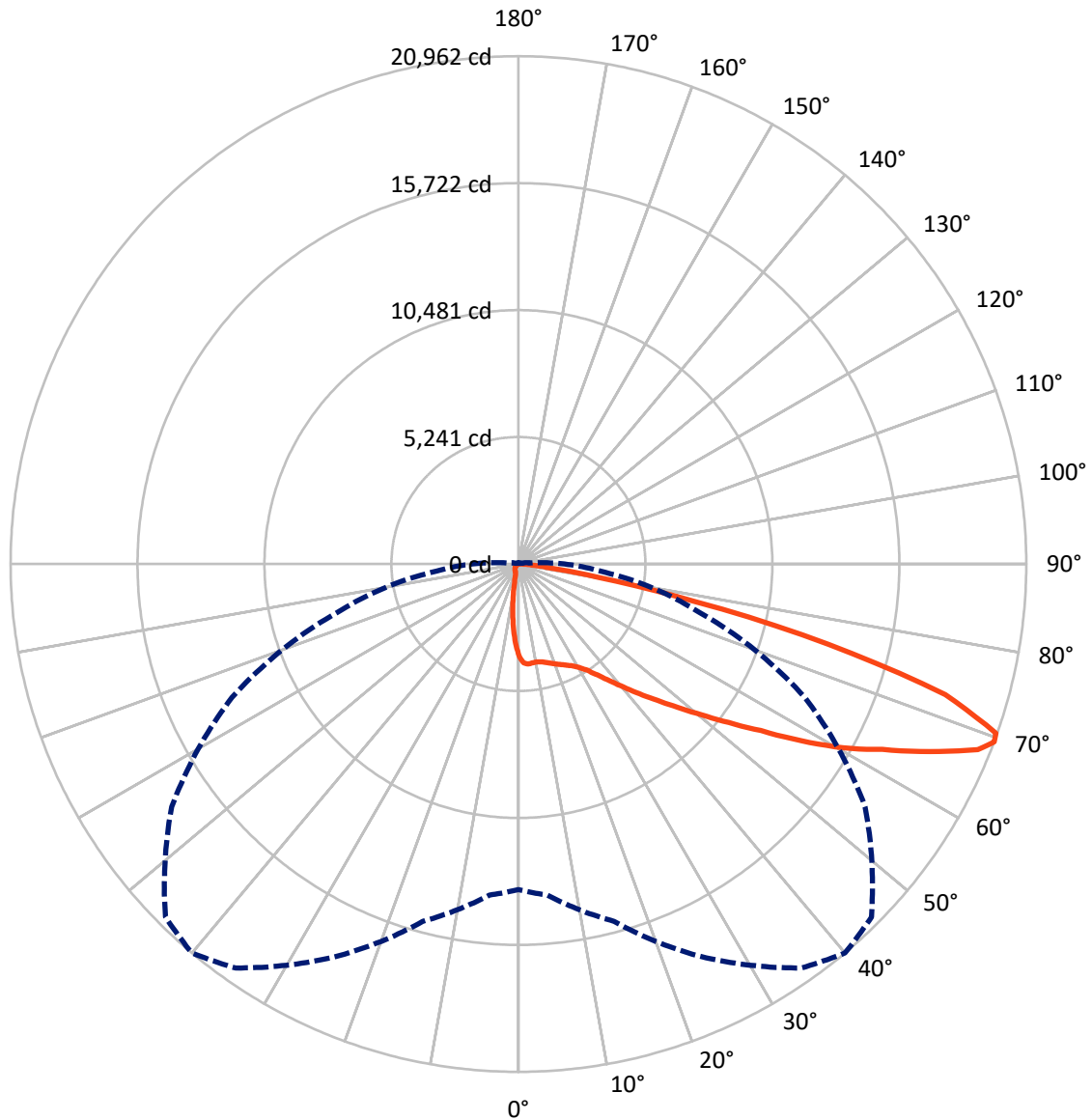


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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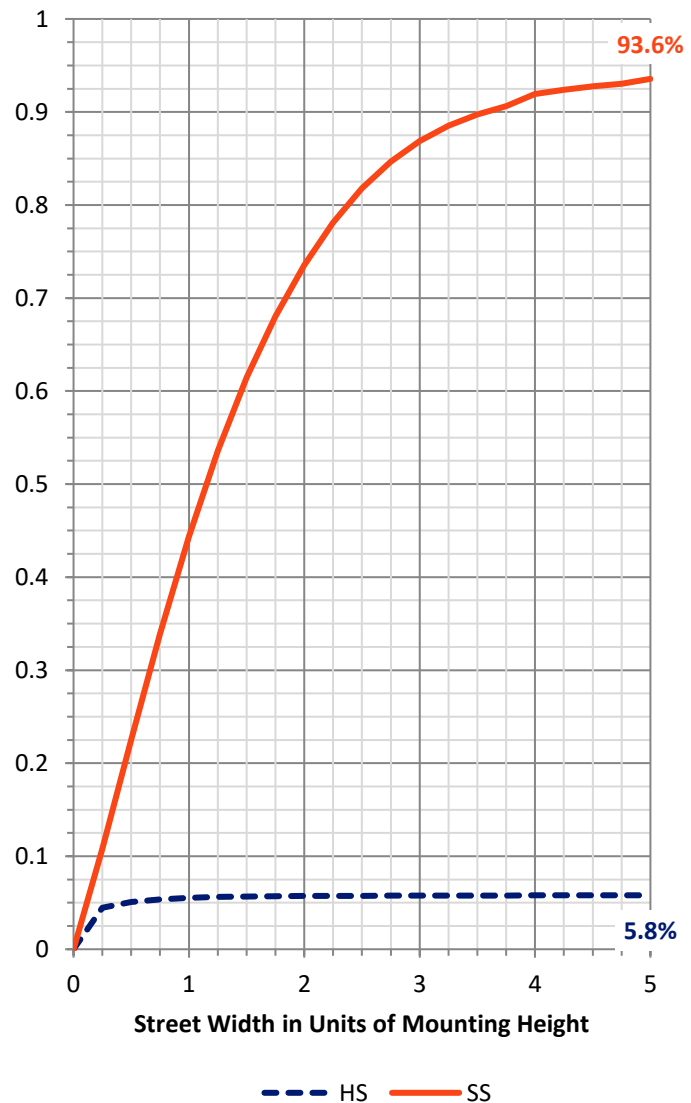
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1492.5 | 0.0 | 1492.5 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 24017.5 | 0.0 | 24017.5 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 25510.0 | 0.0 | 25510.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 309.0 | 1.2 |
| 10°-20° | 759.9 | 3.0 |
| 20°-30° | 1280.0 | 5.0 |
| 30°-40° | 2095.4 | 8.2 |
| 40°-50° | 3628.1 | 14.2 |
| 50°-60° | 5714.7 | 22.4 |
| 60°-70° | 7463.2 | 29.3 |
| 70°-80° | 3843.9 | 15.1 |
| 80°-90° | 415.8 | 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° | 25510.0 | 100.0 |
| 0°-180° | 25510.0 | 100.0 |

Coefficient of Utilization



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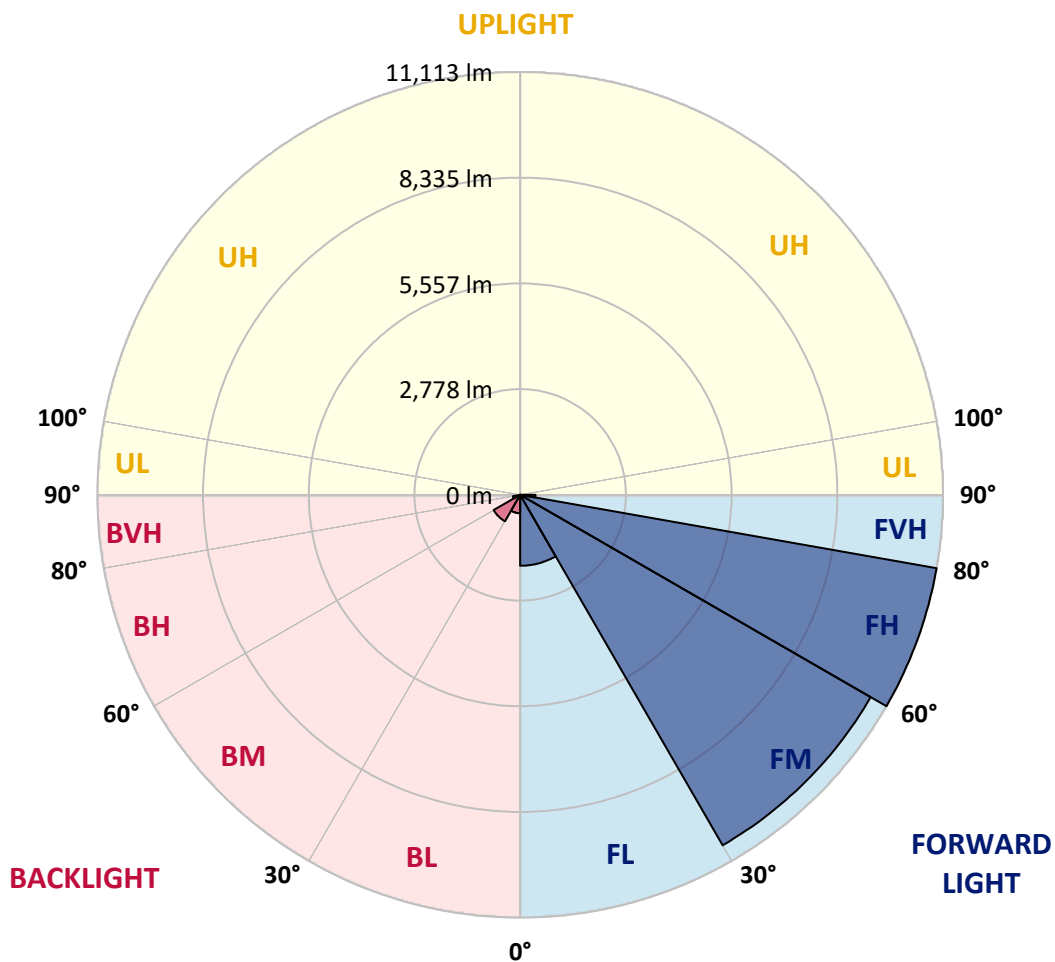
CATALOG NUMBER: GAN-AF-08-LED-U-SL4-7060-600-HSS-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1865.5 | 7.3 | | | |
| FM (30°-60°) | 10636.1 | 41.7 | | | |
| FH (60°-80°) | 11113.2 | 43.6 | | | G4/12000 |
| FVH (80°-90°) | 402.7 | 1.6 | | | G3/500 |
| BL (0°-30°) | 483.5 | 1.9 | B1/500 | | |
| BM (30°-60°) | 802.2 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 193.8 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.1 | 0.1 | | | G1/100 |
| 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° | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 |
| 2.5° | 4184.9 | 4162.1 | 4148.4 | 4130.2 | 4107.4 | 4087.7 | 4080.1 | 4023.9 | 3970.8 | 3897.9 | 3814.4 |
| 5° | 4262.3 | 4254.7 | 4230.4 | 4206.1 | 4178.8 | 4148.4 | 4131.7 | 4064.9 | 3989.0 | 3882.7 | 3736.9 |
| 7.5° | 4269.9 | 4260.8 | 4230.4 | 4197.0 | 4159.1 | 4122.6 | 4093.8 | 4026.9 | 3957.1 | 3849.3 | 3671.6 |
| 10° | 4257.8 | 4247.1 | 4224.3 | 4187.9 | 4140.8 | 4105.9 | 4077.1 | 4013.3 | 3954.1 | 3856.9 | 3659.5 |
| 12.5° | 4244.1 | 4233.5 | 4222.8 | 4204.6 | 4163.6 | 4139.3 | 4115.0 | 4054.3 | 4001.1 | 3919.1 | 3703.5 |
| 15° | 4257.8 | 4251.7 | 4263.8 | 4256.2 | 4233.5 | 4212.2 | 4187.9 | 4133.2 | 4084.6 | 4016.3 | 3784.0 |
| 17.5° | 4315.5 | 4315.5 | 4353.4 | 4358.0 | 4336.7 | 4306.3 | 4271.4 | 4216.8 | 4175.8 | 4118.1 | 3879.7 |
| 20° | 4450.6 | 4446.0 | 4494.6 | 4503.7 | 4452.1 | 4405.0 | 4353.4 | 4286.6 | 4254.7 | 4218.3 | 3973.8 |
| 22.5° | 4682.9 | 4661.7 | 4690.5 | 4681.4 | 4579.7 | 4506.8 | 4443.0 | 4361.0 | 4344.3 | 4327.6 | 4078.6 |
| 25° | 4985.1 | 4972.9 | 4992.7 | 4903.1 | 4723.9 | 4625.2 | 4549.3 | 4456.7 | 4456.7 | 4473.4 | 4197.0 |
| 27.5° | 5423.9 | 5378.4 | 5311.6 | 5153.6 | 4884.9 | 4758.8 | 4676.8 | 4578.1 | 4604.0 | 4666.2 | 4353.4 |
| 30° | 5873.4 | 5823.3 | 5669.9 | 5427.0 | 5080.8 | 4948.6 | 4853.0 | 4749.7 | 4810.5 | 4924.4 | 4563.0 |
| 32.5° | 6316.8 | 6260.6 | 6043.5 | 5736.7 | 5361.7 | 5229.6 | 5136.9 | 5023.1 | 5124.8 | 5316.1 | 4869.7 |
| 35° | 6746.5 | 6696.4 | 6445.8 | 6084.5 | 5735.2 | 5625.9 | 5540.8 | 5442.1 | 5572.7 | 5840.0 | 5302.4 |
| 37.5° | 7229.4 | 7174.7 | 6869.5 | 6477.7 | 6189.2 | 6110.3 | 6048.0 | 5949.3 | 6177.1 | 6568.8 | 5905.3 |
| 40° | 7823.1 | 7730.5 | 7319.0 | 6928.7 | 6714.6 | 6676.7 | 6634.1 | 6620.5 | 6974.3 | 7516.4 | 6708.5 |
| 42.5° | 8503.4 | 8351.5 | 7789.7 | 7404.0 | 7291.6 | 7319.0 | 7308.3 | 7369.1 | 7971.9 | 8694.7 | 7686.4 |
| 45° | 9183.6 | 8987.7 | 8313.5 | 7911.2 | 7926.3 | 8022.0 | 8081.2 | 8324.2 | 9221.6 | 10046.1 | 8738.7 |
| 47.5° | 9760.6 | 9567.8 | 8816.2 | 8459.3 | 8641.5 | 8829.8 | 8990.8 | 9450.9 | 10506.2 | 11376.3 | 9557.2 |
| 50° | 10254.1 | 10071.9 | 9349.1 | 9062.1 | 9472.1 | 9775.8 | 10037.0 | 10718.8 | 11888.0 | 12389.1 | 10131.1 |
| 52.5° | 10658.0 | 10536.6 | 9901.9 | 9753.0 | 10421.2 | 10866.1 | 11248.7 | 12065.7 | 13111.9 | 13212.1 | 10577.6 |
| 55° | 11051.3 | 10964.8 | 10495.6 | 10574.5 | 11535.7 | 12141.6 | 12626.0 | 13494.5 | 14165.7 | 13898.4 | 11005.8 |
| 57.5° | 11503.8 | 11424.9 | 11172.8 | 11616.2 | 13001.0 | 13763.3 | 14291.7 | 14760.9 | 15093.5 | 14600.0 | 11409.7 |
| 60° | 11965.4 | 11919.9 | 11926.0 | 12773.3 | 14683.5 | 15415.4 | 15706.9 | 15828.4 | 16004.5 | 15260.5 | 11432.5 |
| 62.5° | 12405.8 | 12492.3 | 12786.9 | 14060.9 | 16294.6 | 16856.4 | 17003.7 | 17123.6 | 16917.1 | 15365.3 | 10562.4 |
| 65° | 13151.3 | 13292.6 | 13995.6 | 15784.4 | 18066.6 | 18667.9 | 18819.7 | 18408.2 | 17061.4 | 14010.8 | 8591.4 |
| 67.5° | 13515.8 | 13773.9 | 15028.2 | 17390.9 | 19785.5 | 20453.6 | 20397.4 | 18491.8 | 15310.6 | 10683.9 | 5513.5 |
| 69° | 13439.9 | 13714.7 | 15266.6 | 17882.9 | 20356.4 | 20962.3 | 20605.5 | 17469.8 | 13043.5 | 7739.6 | 3384.6 |
| 70° | 13139.2 | 13417.1 | 15143.6 | 17864.6 | 20429.3 | 20909.1 | 20219.8 | 16208.0 | 11028.5 | 5659.3 | 2116.7 |
| 72.5° | 10972.4 | 11212.3 | 13444.4 | 16147.3 | 18819.7 | 18429.5 | 16915.6 | 11229.0 | 5373.8 | 1541.2 | 476.8 |
| 75° | 6754.1 | 6887.7 | 9646.8 | 12164.4 | 14214.3 | 13212.1 | 11270.0 | 5586.4 | 1602.0 | 435.8 | 264.2 |
| 77.5° | 3568.4 | 3629.1 | 5281.2 | 7170.2 | 9010.5 | 7455.6 | 5776.2 | 2179.0 | 738.0 | 273.3 | 191.3 |
| 80° | 2109.1 | 2154.7 | 2844.1 | 3278.3 | 3899.4 | 3257.1 | 2309.6 | 1337.8 | 528.4 | 171.6 | 170.1 |
| 82.5° | 1207.2 | 1236.0 | 2062.1 | 1822.1 | 1536.7 | 1311.9 | 1149.5 | 1267.9 | 317.4 | 115.4 | 176.1 |
| 85° | 443.4 | 449.5 | 1160.1 | 1386.4 | 914.1 | 543.6 | 570.9 | 1050.8 | 85.0 | 72.9 | 138.2 |
| 87.5° | 206.5 | 202.0 | 596.8 | 848.8 | 534.5 | 344.7 | 444.9 | 230.8 | 33.4 | 47.1 | 38.0 |
| 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° | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 | 3811.3 |
| 2.5° | 3765.8 | 3709.6 | 3607.9 | 3503.1 | 3396.8 | 3314.8 | 3234.3 | 3170.5 | 3149.3 | 3109.8 | 3112.8 |
| 5° | 3650.4 | 3547.1 | 3334.5 | 3118.9 | 2894.2 | 2708.9 | 2534.3 | 2393.1 | 2324.8 | 2254.9 | 2254.9 |
| 7.5° | 3550.2 | 3399.8 | 3067.3 | 2716.5 | 2353.6 | 2048.4 | 1773.6 | 1567.0 | 1453.2 | 1362.1 | 1360.5 |
| 10° | 3512.2 | 3308.7 | 2844.1 | 2341.5 | 1835.8 | 1419.8 | 1093.3 | 883.7 | 775.9 | 706.1 | 703.0 |
| 12.5° | 3528.9 | 3276.8 | 2672.5 | 1995.3 | 1360.5 | 912.6 | 633.2 | 498.1 | 452.5 | 431.2 | 431.2 |
| 15° | 3577.5 | 3267.7 | 2500.9 | 1656.6 | 961.2 | 570.9 | 420.6 | 384.2 | 381.1 | 381.1 | 381.1 |
| 17.5° | 3636.7 | 3270.8 | 2324.8 | 1327.1 | 654.5 | 408.5 | 362.9 | 358.4 | 361.4 | 361.4 | 361.4 |
| 20° | 3697.4 | 3272.3 | 2134.9 | 1021.9 | 461.6 | 355.3 | 341.7 | 340.1 | 343.2 | 343.2 | 344.7 |
| 22.5° | 3771.8 | 3279.9 | 1945.1 | 763.8 | 381.1 | 335.6 | 324.9 | 324.9 | 326.5 | 326.5 | 324.9 |
| 25° | 3856.9 | 3295.1 | 1747.7 | 566.4 | 347.7 | 321.9 | 312.8 | 311.3 | 312.8 | 311.3 | 309.8 |
| 27.5° | 3963.2 | 3316.3 | 1527.6 | 443.4 | 332.5 | 308.2 | 300.7 | 300.7 | 299.1 | 297.6 | 296.1 |
| 30° | 4096.8 | 3340.6 | 1280.1 | 376.6 | 317.4 | 296.1 | 288.5 | 287.0 | 285.5 | 282.4 | 282.4 |
| 32.5° | 4300.3 | 3393.7 | 1035.6 | 341.7 | 300.7 | 279.4 | 273.3 | 273.3 | 270.3 | 267.2 | 265.7 |
| 35° | 4613.1 | 3498.5 | 816.9 | 320.4 | 282.4 | 261.2 | 253.6 | 253.6 | 250.5 | 249.0 | 247.5 |
| 37.5° | 5045.8 | 3658.0 | 634.7 | 300.7 | 264.2 | 241.4 | 233.8 | 232.3 | 229.3 | 226.2 | 224.7 |
| 40° | 5621.3 | 3855.4 | 499.6 | 282.4 | 246.0 | 221.7 | 215.6 | 212.6 | 206.5 | 202.0 | 202.0 |
| 42.5° | 6344.1 | 4080.1 | 405.4 | 262.7 | 224.7 | 203.5 | 198.9 | 194.4 | 183.7 | 179.2 | 177.7 |
| 45° | 7100.3 | 4282.0 | 343.2 | 239.9 | 203.5 | 185.3 | 182.2 | 174.6 | 161.0 | 156.4 | 156.4 |
| 47.5° | 7645.4 | 4329.1 | 302.2 | 218.7 | 183.7 | 165.5 | 164.0 | 150.3 | 138.2 | 135.1 | 133.6 |
| 50° | 7985.6 | 4236.5 | 268.8 | 197.4 | 165.5 | 147.3 | 142.7 | 126.0 | 118.4 | 115.4 | 113.9 |
| 52.5° | 8214.8 | 4071.0 | 241.4 | 179.2 | 148.8 | 130.6 | 120.0 | 107.8 | 101.7 | 98.7 | 98.7 |
| 55° | 8398.6 | 3837.1 | 214.1 | 162.5 | 135.1 | 116.9 | 101.7 | 92.6 | 86.6 | 83.5 | 83.5 |
| 57.5° | 8450.2 | 3519.8 | 186.8 | 148.8 | 121.5 | 103.3 | 86.6 | 80.5 | 72.9 | 71.4 | 71.4 |
| 60° | 8075.2 | 2947.3 | 165.5 | 132.1 | 109.3 | 89.6 | 75.9 | 68.3 | 60.7 | 59.2 | 57.7 |
| 62.5° | 7086.6 | 2280.7 | 145.8 | 116.9 | 95.7 | 77.4 | 65.3 | 56.2 | 50.1 | 50.1 | 50.1 |
| 65° | 5405.7 | 1529.1 | 127.6 | 101.7 | 83.5 | 65.3 | 56.2 | 45.6 | 42.5 | 42.5 | 44.0 |
| 67.5° | 3235.8 | 832.1 | 109.3 | 86.6 | 71.4 | 54.7 | 47.1 | 39.5 | 38.0 | 39.5 | 39.5 |
| 69° | 1896.6 | 488.9 | 98.7 | 77.4 | 62.3 | 48.6 | 41.0 | 34.9 | 38.0 | 39.5 | 39.5 |
| 70° | 1170.7 | 329.5 | 91.1 | 69.8 | 56.2 | 44.0 | 38.0 | 33.4 | 36.4 | 38.0 | 38.0 |
| 72.5° | 326.5 | 170.1 | 72.9 | 54.7 | 45.6 | 36.4 | 30.4 | 30.4 | 34.9 | 36.4 | 36.4 |
| 75° | 212.6 | 126.0 | 56.2 | 41.0 | 34.9 | 28.9 | 25.8 | 28.9 | 33.4 | 34.9 | 34.9 |
| 77.5° | 176.1 | 103.3 | 45.6 | 33.4 | 28.9 | 27.3 | 24.3 | 25.8 | 30.4 | 31.9 | 31.9 |
| 80° | 161.0 | 72.9 | 36.4 | 30.4 | 25.8 | 24.3 | 22.8 | 21.3 | 27.3 | 28.9 | 28.9 |
| 82.5° | 153.4 | 57.7 | 31.9 | 27.3 | 24.3 | 21.3 | 19.7 | 21.3 | 24.3 | 25.8 | 27.3 |
| 85° | 95.7 | 38.0 | 28.9 | 25.8 | 21.3 | 19.7 | 19.7 | 19.7 | 22.8 | 24.3 | 24.3 |
| 87.5° | 34.9 | 30.4 | 25.8 | 21.3 | 18.2 | 18.2 | 18.2 | 18.2 | 19.7 | 22.8 | 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)