

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: P383582

Luminaire Tested: **GAN-SA8D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59429 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

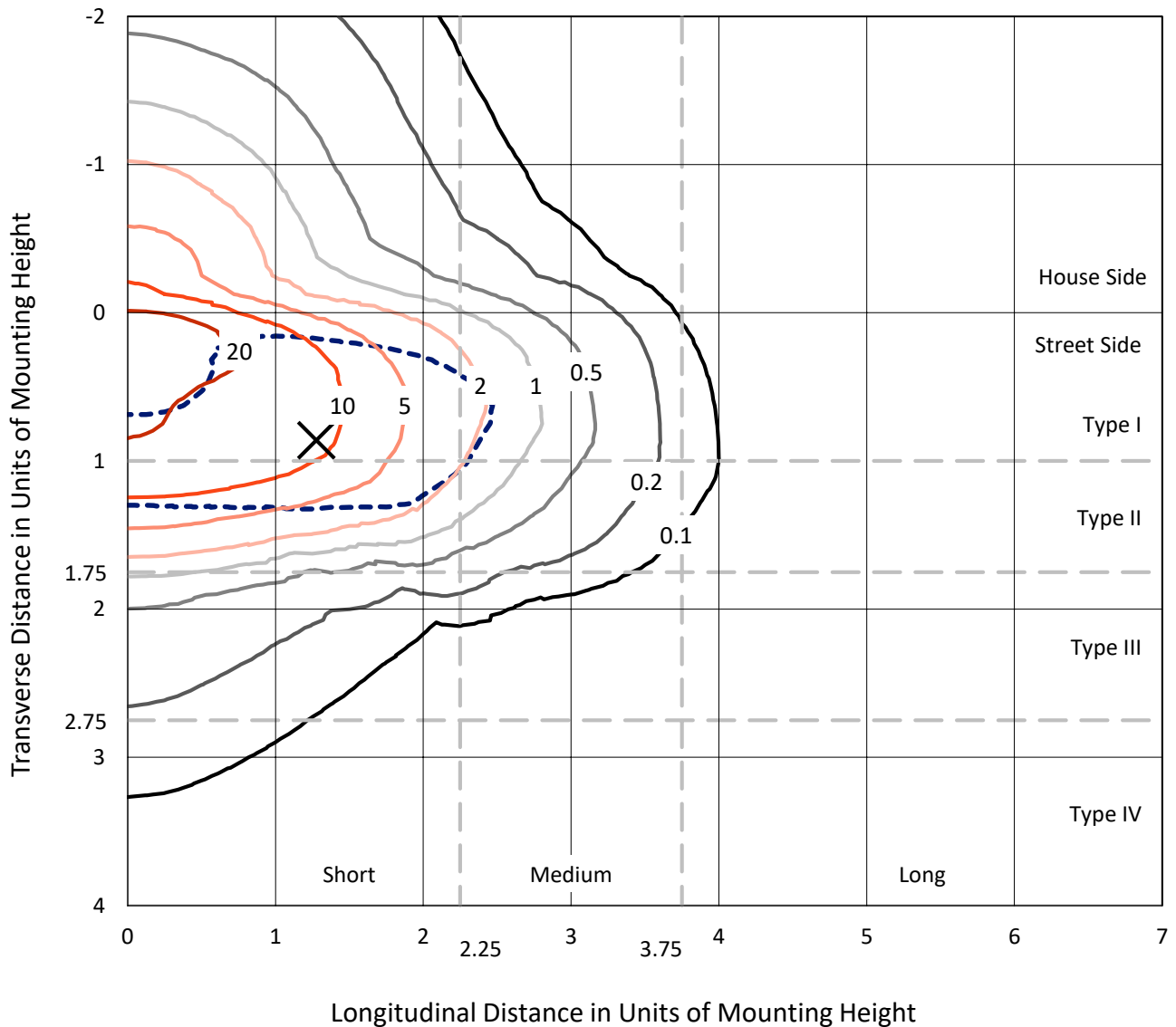
Input Watts (W): 511
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

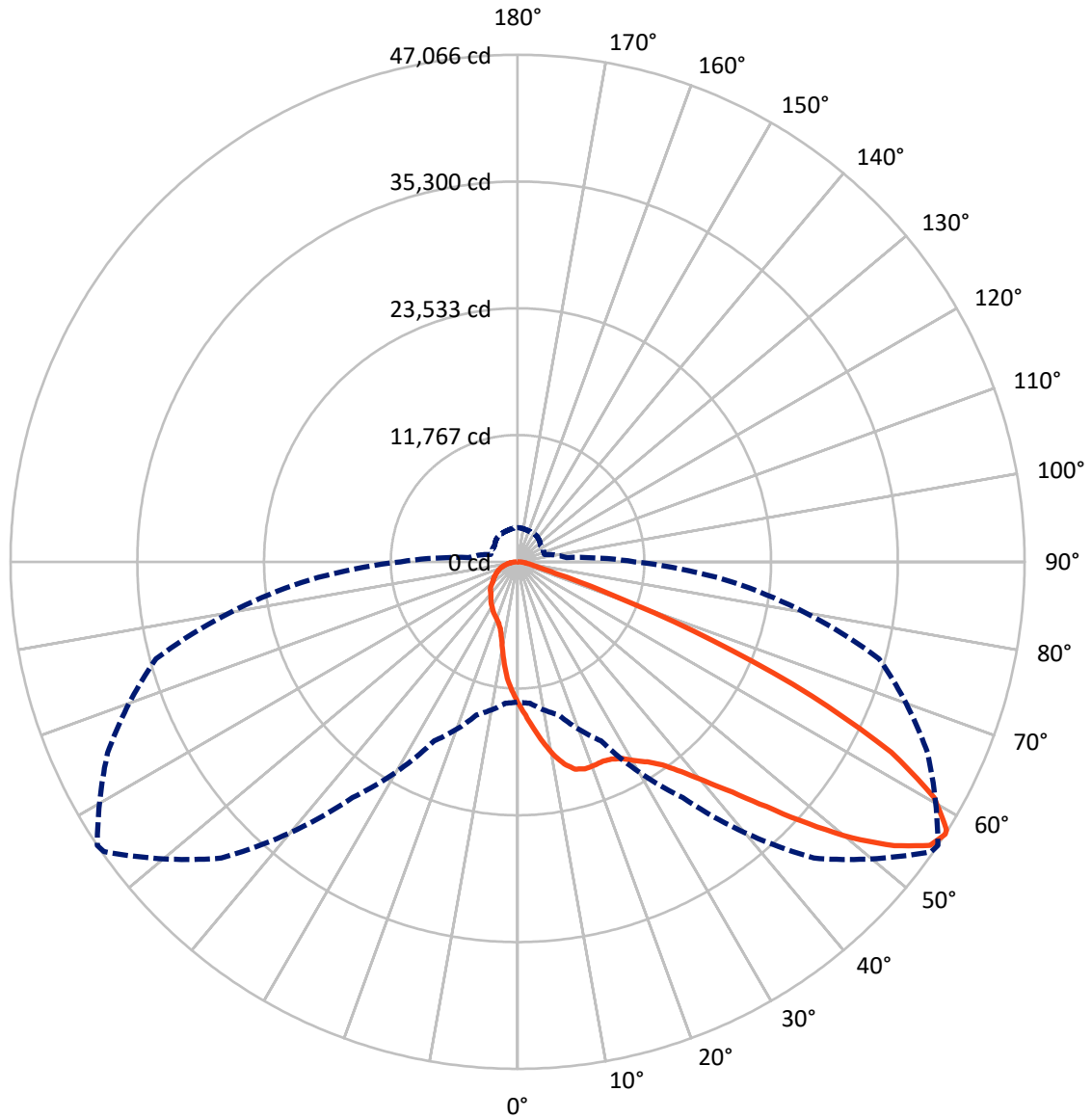
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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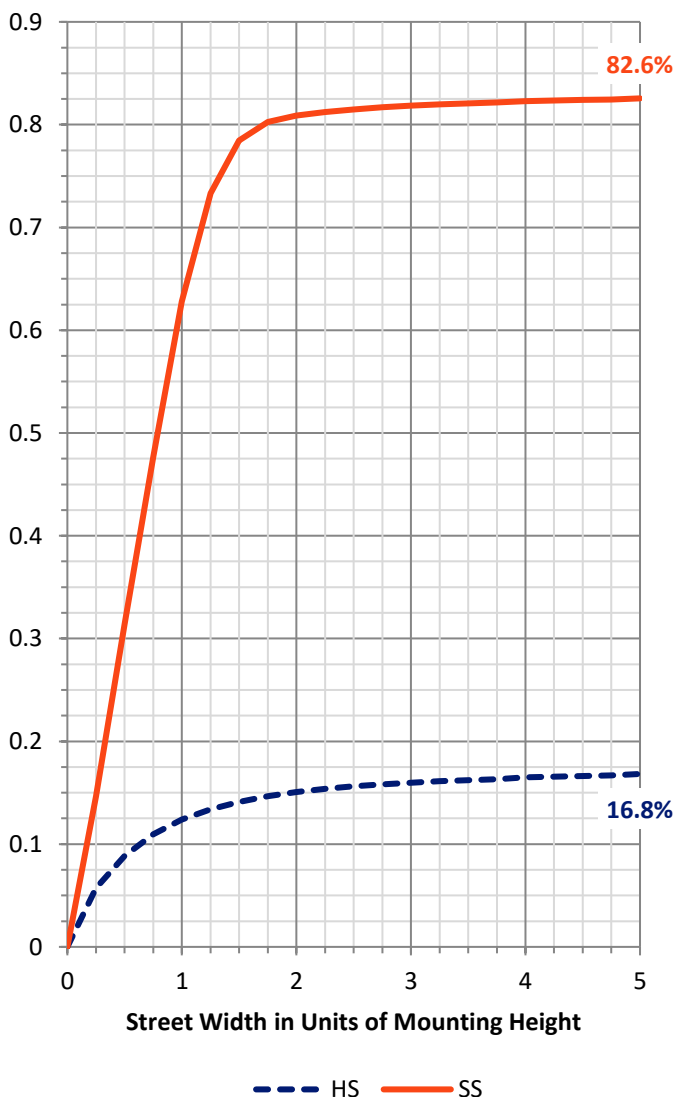
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10244.3 | 0.0 | 10244.3 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 49184.7 | 0.0 | 49184.7 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 59429.0 | 0.0 | 59429.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1259.2 | 2.1 |
| 10°-20° | 3559.9 | 6.0 |
| 20°-30° | 5798.4 | 9.8 |
| 30°-40° | 8668.0 | 14.6 |
| 40°-50° | 13147.5 | 22.1 |
| 50°-60° | 14736.1 | 24.8 |
| 60°-70° | 8703.7 | 14.6 |
| 70°-80° | 2851.7 | 4.8 |
| 80°-90° | 704.5 | 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° | 59429.0 | 100.0 |
| 0°-180° | 59429.0 | 100.0 |

Coefficient of Utilization

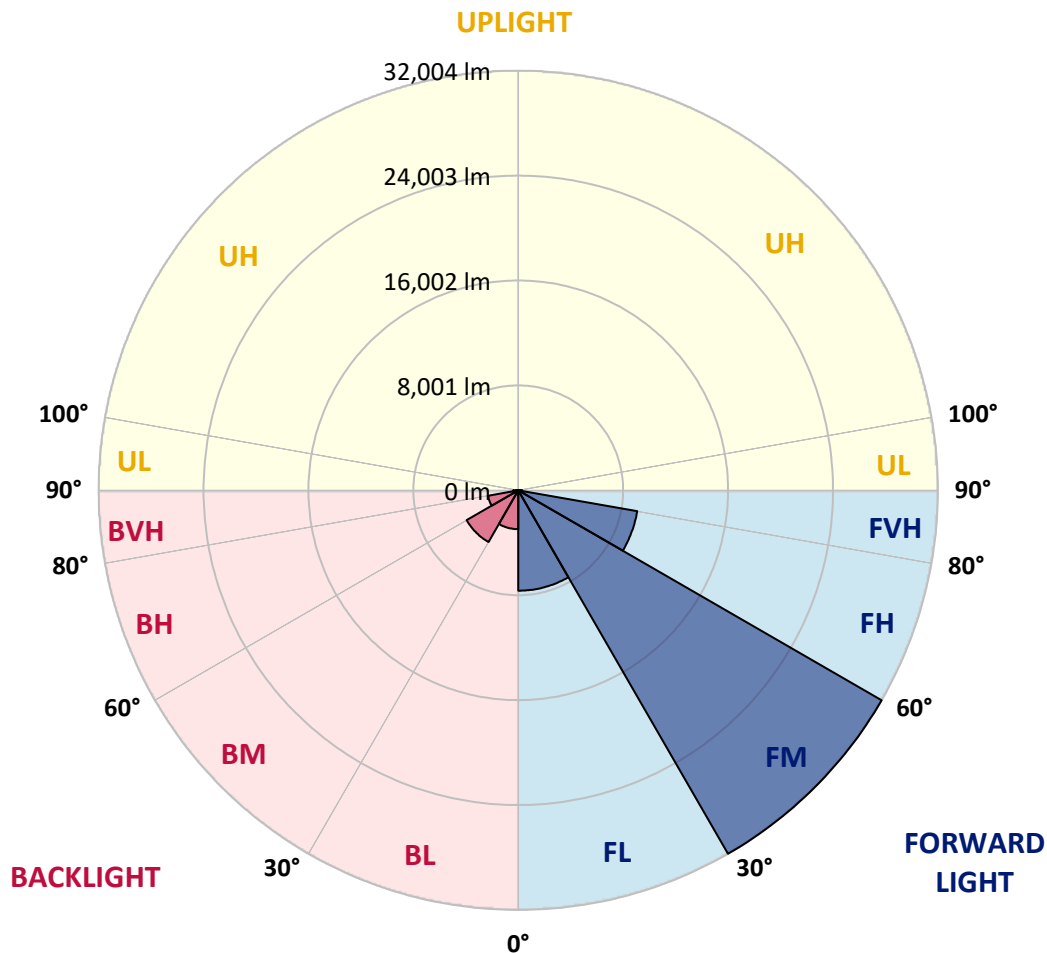


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 7655.4 | 12.9 | | | |
| FM (30°-60°) | 32004.5 | 53.9 | | | |
| FH (60°-80°) | 9214.7 | 15.5 | | | G4/12000 |
| FVH (80°-90°) | 310.2 | 0.5 | | | G3/500 |
| BL (0°-30°) | 2962.2 | 5.0 | B4/5000 | | |
| BM (30°-60°) | 4547.1 | 7.7 | B3/5000 | | |
| BH (60°-80°) | 2340.7 | 3.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 394.3 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 |
| 2.5° | 15136.0 | 15274.9 | 15213.6 | 15001.2 | 14837.8 | 14606.9 | 14349.7 | 14272.1 | 14000.4 | 13696.1 | 13330.5 |
| 5° | 17531.6 | 17462.2 | 17362.1 | 17031.3 | 16682.1 | 16275.6 | 15630.2 | 15528.1 | 14923.6 | 14235.3 | 13508.2 |
| 7.5° | 18896.0 | 18889.8 | 18830.6 | 18636.5 | 18318.0 | 17787.0 | 17008.8 | 16888.3 | 15975.4 | 14868.4 | 13741.0 |
| 10° | 18697.8 | 18683.5 | 18781.6 | 18983.7 | 19079.8 | 18969.5 | 18313.9 | 18193.4 | 17072.1 | 15569.0 | 14010.6 |
| 12.5° | 17572.5 | 17580.6 | 17737.9 | 18162.8 | 18740.7 | 19435.2 | 19329.0 | 19269.7 | 18209.7 | 16361.3 | 14337.4 |
| 15° | 16696.3 | 16714.7 | 16839.3 | 17208.9 | 17891.1 | 19151.2 | 19945.7 | 19966.1 | 19310.5 | 17235.5 | 14719.3 |
| 17.5° | 16312.3 | 16351.2 | 16408.4 | 16667.7 | 17292.7 | 18585.5 | 20092.7 | 20203.0 | 20274.6 | 18142.3 | 15087.0 |
| 20° | 16434.9 | 16471.6 | 16488.0 | 16653.5 | 17166.1 | 18242.4 | 19990.6 | 20188.8 | 21013.9 | 18996.0 | 15454.6 |
| 22.5° | 16984.3 | 17006.8 | 17017.0 | 17059.9 | 17458.1 | 18340.4 | 19923.3 | 20131.6 | 21548.9 | 19761.9 | 15732.3 |
| 25° | 17895.2 | 17878.8 | 17813.5 | 17758.4 | 18025.9 | 18728.5 | 20078.5 | 20276.5 | 21984.0 | 20456.3 | 15914.1 |
| 27.5° | 18985.8 | 18965.4 | 18838.8 | 18687.6 | 18840.8 | 19333.0 | 20525.7 | 20683.0 | 22374.1 | 21105.8 | 16006.0 |
| 30° | 20295.0 | 20241.9 | 20002.9 | 19823.1 | 19882.4 | 20239.8 | 21263.0 | 21406.0 | 22976.6 | 21843.1 | 16095.8 |
| 32.5° | 21808.4 | 21751.2 | 21406.0 | 21107.8 | 21107.8 | 21406.0 | 22022.8 | 22141.2 | 23487.2 | 22676.4 | 16240.9 |
| 35° | 23703.7 | 23632.2 | 23182.9 | 22682.4 | 22541.6 | 22692.7 | 23058.3 | 23142.0 | 24406.3 | 23726.1 | 16504.3 |
| 37.5° | 25938.0 | 25842.0 | 25259.9 | 24590.1 | 24281.6 | 24273.5 | 24537.0 | 24708.5 | 25874.7 | 25104.7 | 16951.7 |
| 40° | 28178.5 | 28111.1 | 27602.5 | 27075.6 | 26471.0 | 26277.0 | 26683.4 | 26736.5 | 27794.5 | 26816.2 | 17523.4 |
| 42.5° | 29910.4 | 29898.1 | 29804.2 | 29873.6 | 29254.8 | 28862.7 | 29181.3 | 29224.1 | 30139.1 | 28668.7 | 18132.1 |
| 45° | 30825.4 | 30845.8 | 31301.2 | 32310.2 | 32539.0 | 32253.0 | 32410.2 | 32422.5 | 32818.7 | 30537.4 | 18689.6 |
| 47.5° | 30092.2 | 30198.4 | 31350.3 | 33607.1 | 35479.9 | 36429.7 | 36168.2 | 36319.4 | 35416.6 | 32142.7 | 19126.7 |
| 50° | 27234.9 | 27365.6 | 29326.3 | 33029.0 | 36852.4 | 40471.5 | 40334.6 | 40299.9 | 37512.1 | 33319.1 | 19363.6 |
| 52.5° | 23695.5 | 23797.6 | 25415.1 | 30024.8 | 35845.5 | 42705.8 | 43961.9 | 43782.1 | 39374.7 | 34199.3 | 19408.6 |
| 55° | 18305.7 | 18465.0 | 20015.1 | 24028.4 | 31773.0 | 41852.1 | 46629.2 | 46467.8 | 41071.9 | 34660.9 | 19355.5 |
| 57° | 13013.9 | 13181.4 | 14721.3 | 18338.4 | 26728.4 | 38896.8 | 46894.7 | 47066.3 | 41988.9 | 34738.5 | 19414.7 |
| 57.5° | 11612.9 | 11784.4 | 13310.0 | 16822.9 | 25155.8 | 37828.7 | 46666.0 | 46951.9 | 42154.4 | 34726.3 | 19447.4 |
| 60° | 5847.3 | 5912.6 | 6884.8 | 9390.7 | 15901.8 | 30582.3 | 43682.0 | 44419.4 | 42303.4 | 34125.8 | 19588.3 |
| 62.5° | 3635.4 | 3588.4 | 3557.8 | 4325.7 | 7736.5 | 20280.6 | 37524.3 | 38943.8 | 39450.3 | 32671.7 | 19247.3 |
| 65° | 3196.3 | 3108.5 | 2771.4 | 2710.2 | 3416.9 | 9850.3 | 28258.1 | 30024.8 | 33353.8 | 30380.2 | 18434.4 |
| 67.5° | 3002.3 | 2916.5 | 2536.6 | 2307.9 | 2310.0 | 3905.0 | 17543.9 | 19533.2 | 25982.9 | 26505.8 | 16516.6 |
| 70° | 2802.1 | 2724.5 | 2369.1 | 2099.5 | 1966.8 | 2162.9 | 8071.4 | 9580.7 | 16937.3 | 20834.2 | 13804.3 |
| 72.5° | 2544.8 | 2491.7 | 2154.7 | 1877.0 | 1736.0 | 1619.6 | 3090.1 | 3649.7 | 9805.4 | 13992.2 | 9586.8 |
| 75° | 2275.2 | 2226.2 | 1938.2 | 1672.7 | 1501.1 | 1274.5 | 1740.1 | 1874.9 | 4981.4 | 7158.5 | 4719.9 |
| 77.5° | 1979.1 | 1950.5 | 1723.7 | 1478.6 | 1341.8 | 1055.9 | 1231.5 | 1296.9 | 2136.3 | 3069.6 | 2367.1 |
| 80° | 1574.7 | 1629.8 | 1507.2 | 1317.3 | 1190.7 | 845.6 | 872.1 | 915.0 | 1243.8 | 1499.1 | 1343.9 |
| 82.5° | 1025.3 | 1121.2 | 1180.5 | 1070.2 | 980.4 | 665.8 | 627.0 | 645.4 | 810.8 | 915.0 | 584.1 |
| 85° | 426.8 | 479.9 | 776.1 | 700.5 | 651.5 | 486.1 | 420.7 | 428.9 | 502.4 | 520.8 | 238.9 |
| 87.5° | 189.9 | 202.2 | 341.0 | 320.6 | 275.7 | 167.5 | 179.7 | 196.1 | 267.5 | 253.3 | 91.9 |
| 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° | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 | 13181.4 |
| 2.5° | 13193.7 | 13022.1 | 12728.0 | 12403.3 | 12137.8 | 11925.4 | 11711.0 | 11563.9 | 11392.3 | 11300.4 | 11253.4 |
| 5° | 13203.8 | 12866.9 | 12248.1 | 11612.9 | 11045.1 | 10526.3 | 10032.1 | 9652.2 | 9296.8 | 9104.9 | 9051.8 |
| 7.5° | 13246.8 | 12740.2 | 11739.5 | 10693.8 | 9684.9 | 8763.8 | 8053.0 | 7607.8 | 7287.1 | 7144.2 | 7103.3 |
| 10° | 13281.4 | 12591.2 | 11110.5 | 9562.3 | 8189.9 | 7256.5 | 6705.1 | 6455.9 | 6345.6 | 6327.3 | 6308.8 |
| 12.5° | 13363.1 | 12438.0 | 10448.7 | 8381.9 | 7027.8 | 6382.4 | 6190.4 | 6174.0 | 6204.7 | 6249.7 | 6249.7 |
| 15° | 13491.9 | 12286.8 | 9693.0 | 7368.8 | 6288.4 | 6061.8 | 6100.5 | 6190.4 | 6274.2 | 6343.6 | 6353.8 |
| 17.5° | 13585.8 | 12101.0 | 8880.2 | 6558.0 | 5894.3 | 5955.6 | 6094.4 | 6221.1 | 6306.9 | 6374.2 | 6380.4 |
| 20° | 13653.2 | 11813.0 | 8012.1 | 5939.2 | 5667.5 | 5857.5 | 6031.1 | 6143.5 | 6202.6 | 6270.1 | 6280.3 |
| 22.5° | 13618.5 | 11427.0 | 7242.2 | 5496.0 | 5483.7 | 5714.5 | 5879.9 | 6014.7 | 5969.8 | 5904.4 | 5947.4 |
| 25° | 13451.0 | 10896.0 | 6449.8 | 5165.2 | 5289.7 | 5522.6 | 5726.8 | 5636.9 | 5485.8 | 5457.2 | 5473.5 |
| 27.5° | 13152.8 | 10218.0 | 5716.5 | 4858.8 | 5065.1 | 5344.8 | 5332.6 | 5242.7 | 5189.7 | 5152.9 | 5175.3 |
| 30° | 12832.2 | 9482.7 | 5075.3 | 4591.2 | 4815.9 | 5046.7 | 4999.7 | 4997.7 | 4944.6 | 4885.3 | 4913.9 |
| 32.5° | 12515.6 | 8743.3 | 4566.7 | 4370.6 | 4628.0 | 4658.7 | 4760.8 | 4791.4 | 4687.3 | 4562.6 | 4554.4 |
| 35° | 12239.9 | 8044.8 | 4180.7 | 4170.5 | 4401.3 | 4405.4 | 4554.4 | 4511.6 | 4252.2 | 4123.5 | 4123.5 |
| 37.5° | 12033.6 | 7348.4 | 3886.6 | 3990.7 | 4103.1 | 4209.3 | 4284.8 | 4107.2 | 4064.3 | 3992.8 | 3990.7 |
| 40° | 11943.7 | 6735.7 | 3702.8 | 3853.9 | 3892.8 | 4027.5 | 3833.5 | 3903.0 | 3923.4 | 3886.6 | 3886.6 |
| 42.5° | 11849.8 | 6202.6 | 3543.5 | 3749.8 | 3743.6 | 3725.3 | 3627.3 | 3717.1 | 3798.8 | 3800.8 | 3794.8 |
| 45° | 11755.9 | 5743.1 | 3402.6 | 3527.1 | 3612.9 | 3414.9 | 3433.2 | 3529.2 | 3643.6 | 3684.5 | 3684.5 |
| 47.5° | 11651.7 | 5379.6 | 3273.9 | 3292.3 | 3425.0 | 3292.3 | 3278.0 | 3351.5 | 3486.3 | 3551.7 | 3566.0 |
| 50° | 11422.9 | 5052.8 | 3126.8 | 3086.0 | 3122.7 | 3167.7 | 3179.9 | 3214.7 | 3363.7 | 3468.0 | 3492.5 |
| 52.5° | 11106.4 | 4760.8 | 2938.9 | 2896.1 | 2896.1 | 3065.6 | 3122.7 | 3133.0 | 3259.6 | 3384.2 | 3408.7 |
| 55° | 10842.9 | 4574.9 | 2744.9 | 2736.8 | 2728.6 | 2957.4 | 3055.4 | 3071.7 | 3159.5 | 3257.5 | 3269.8 |
| 57° | 10861.3 | 4560.6 | 2595.9 | 2604.0 | 2602.0 | 2847.1 | 2992.0 | 3026.8 | 3071.7 | 3155.4 | 3169.8 |
| 57.5° | 10871.5 | 4570.8 | 2563.2 | 2567.3 | 2565.2 | 2816.4 | 2973.7 | 3012.4 | 3047.2 | 3135.0 | 3149.3 |
| 60° | 11024.7 | 4597.4 | 2430.4 | 2385.5 | 2395.7 | 2653.0 | 2869.5 | 2918.5 | 2941.0 | 3057.4 | 3075.8 |
| 62.5° | 10797.9 | 4478.9 | 2324.2 | 2216.0 | 2216.0 | 2481.5 | 2724.5 | 2802.1 | 2836.8 | 2994.1 | 3024.7 |
| 65° | 10140.4 | 4146.0 | 2199.7 | 2024.0 | 2044.4 | 2310.0 | 2550.9 | 2677.5 | 2730.6 | 2926.7 | 2959.3 |
| 67.5° | 9125.3 | 3760.0 | 2066.8 | 1852.4 | 1872.9 | 2130.2 | 2371.2 | 2508.0 | 2591.8 | 2853.1 | 2879.7 |
| 70° | 7803.9 | 3288.2 | 1887.1 | 1670.6 | 1695.1 | 1934.1 | 2158.8 | 2314.0 | 2438.6 | 2783.7 | 2791.9 |
| 72.5° | 5753.3 | 2695.9 | 1635.9 | 1470.5 | 1497.1 | 1705.4 | 1944.3 | 2124.0 | 2291.5 | 2610.1 | 2606.1 |
| 75° | 3420.9 | 2107.7 | 1358.2 | 1268.3 | 1286.7 | 1480.7 | 1750.3 | 1968.8 | 2220.1 | 2542.8 | 2581.5 |
| 77.5° | 2075.0 | 1586.9 | 1107.0 | 1062.1 | 1084.5 | 1282.6 | 1611.4 | 1844.3 | 2189.4 | 2397.7 | 2385.5 |
| 80° | 1254.0 | 1133.5 | 884.3 | 855.7 | 878.2 | 1096.7 | 1490.9 | 1750.3 | 1913.7 | 2048.5 | 2048.5 |
| 82.5° | 655.6 | 692.3 | 649.5 | 627.0 | 657.7 | 890.5 | 1356.1 | 1527.6 | 1691.0 | 1452.1 | 1356.1 |
| 85° | 267.5 | 361.5 | 394.1 | 392.1 | 410.5 | 616.8 | 1170.3 | 1307.1 | 1090.7 | 1035.5 | 1060.0 |
| 87.5° | 89.9 | 153.1 | 192.0 | 165.4 | 173.6 | 388.1 | 810.8 | 631.1 | 749.5 | 522.9 | 496.3 |
| 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)