

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: P301733

Luminaire Tested: **GAA-AF-09-LED-U-T2R-7060-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P301733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-09-LED-U-T2R-7060-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 36391.1 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 290  
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



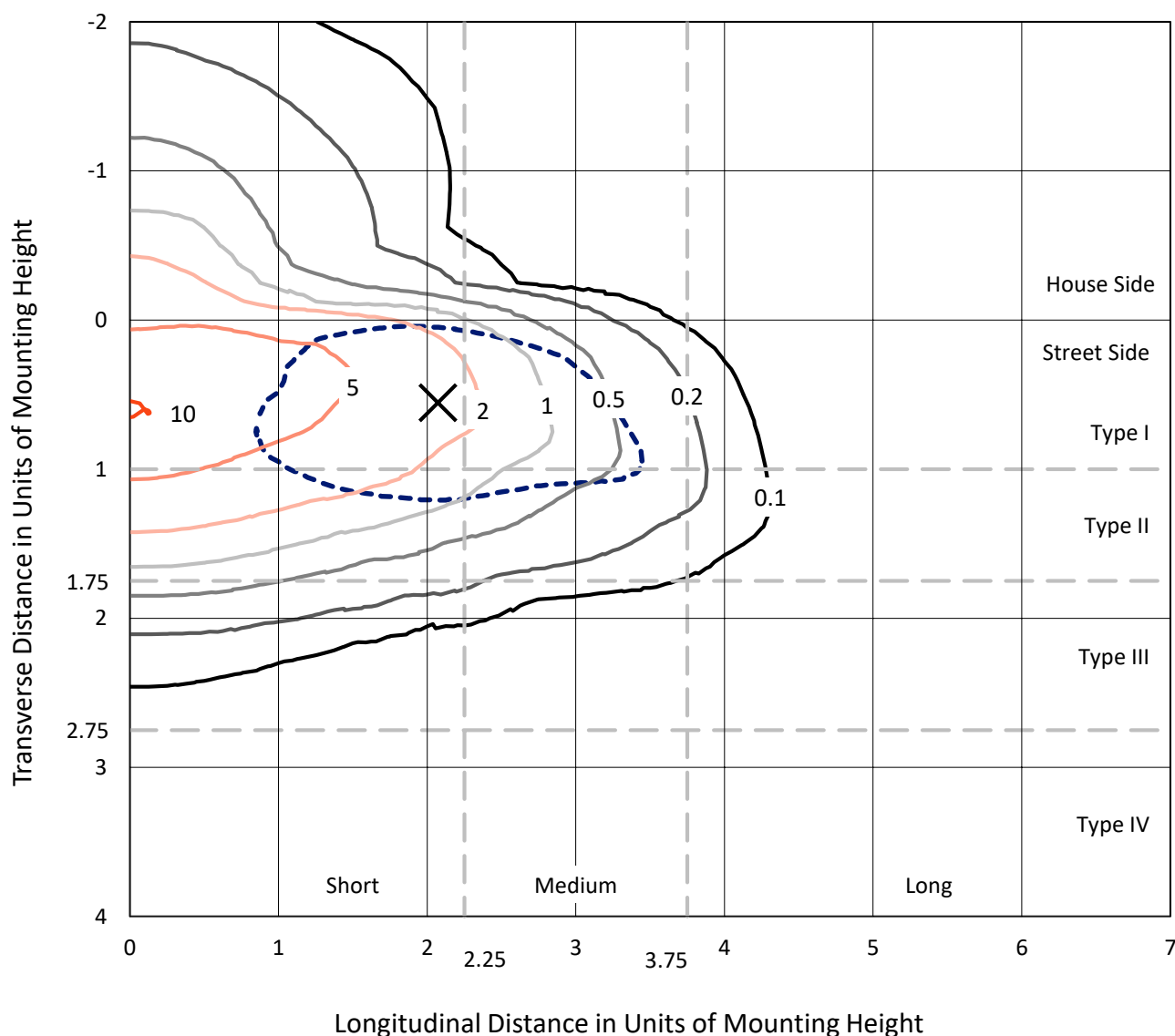
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

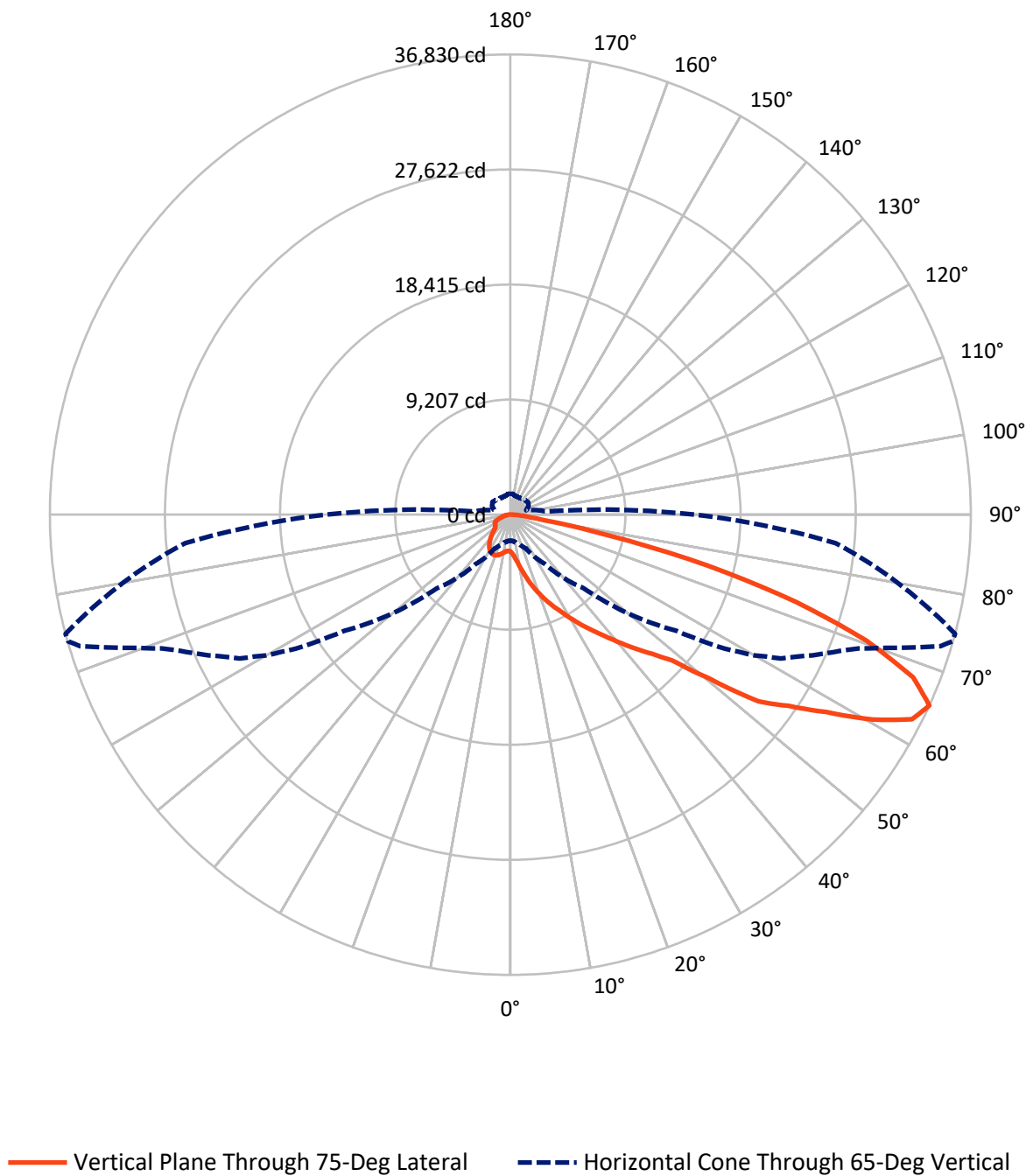


Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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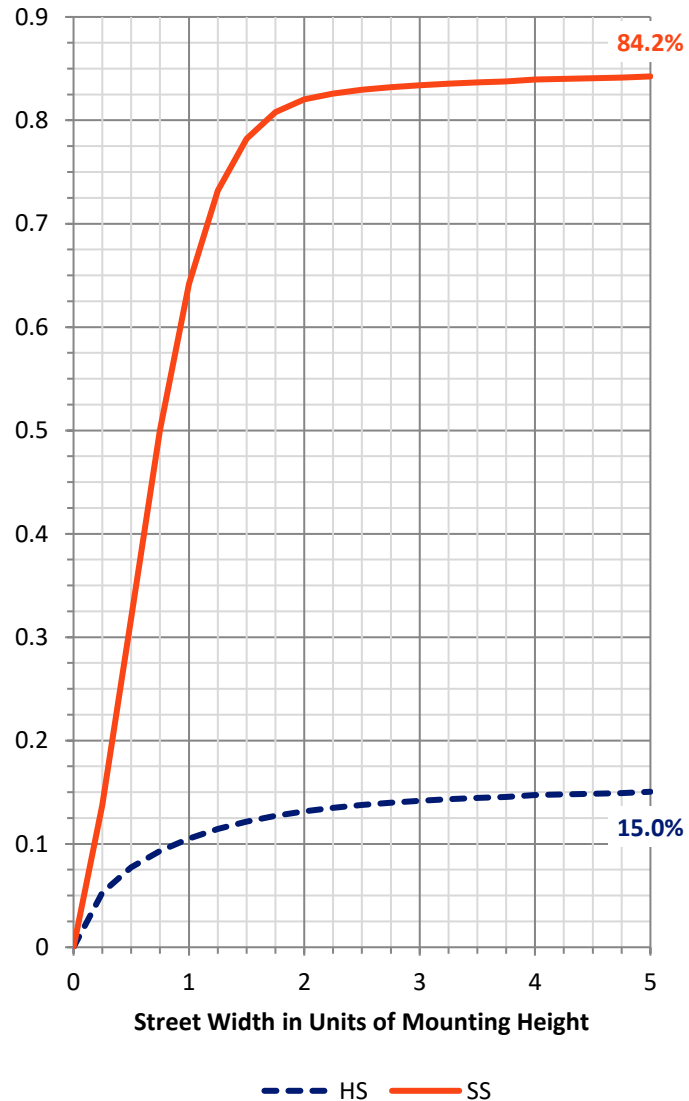
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5610.6   | 0.0    | 5610.6  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 30780.4  | 0.0    | 30780.4 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 36391.1  | 0.0    | 36391.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 365.6   | 1.0       |
| 10°-20°   | 1428.3  | 3.9       |
| 20°-30°   | 2930.4  | 8.1       |
| 30°-40°   | 4930.3  | 13.5      |
| 40°-50°   | 6812.2  | 18.7      |
| 50°-60°   | 8503.7  | 23.4      |
| 60°-70°   | 7652.4  | 21.0      |
| 70°-80°   | 3207.8  | 8.8       |
| 80°-90°   | 560.4   | 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°    | 36391.1 | 100.0     |
| 0°-180°   | 36391.1 | 100.0     |

**Coefficient of Utilization**



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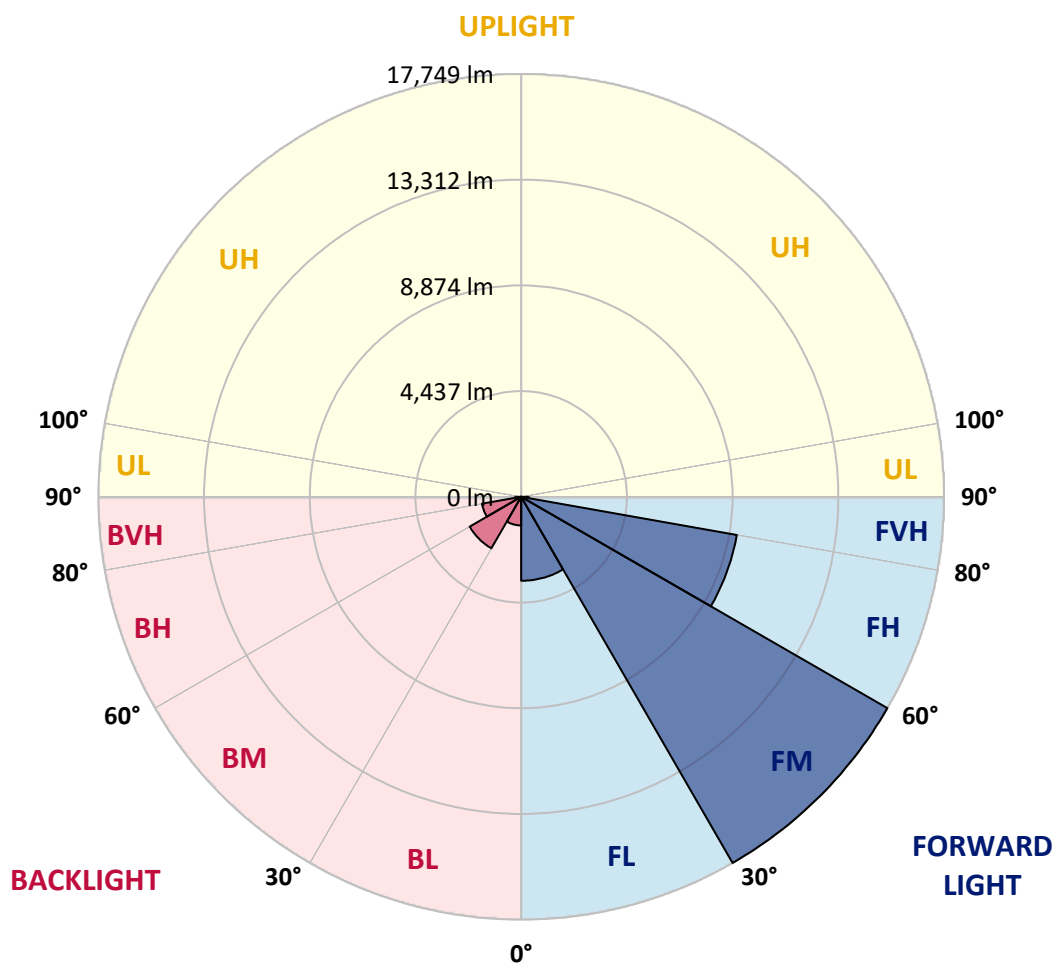
CATALOG NUMBER: GAA-AF-09-LED-U-T2R-7060-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3524.4  | 9.7       |                         |      |          |
| FM   | (30°-60°)   | 17748.8 | 48.8      |                         |      |          |
| FH   | (60°-80°)   | 9192.3  | 25.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 315.0   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1199.9  | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2497.4  | 6.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1668.0  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 245.4   | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  |
| 2.5°  | 3755.1  | 3713.7  | 3723.9  | 3654.9  | 3570.6  | 3460.3  | 3338.1  | 3336.6  | 3338.1  | 3325.9  | 3281.4  |
| 5°    | 5206.7  | 5157.2  | 5138.3  | 4982.9  | 4755.6  | 4432.1  | 4080.6  | 4042.8  | 4026.9  | 3987.6  | 3896.1  |
| 7.5°  | 6266.5  | 6238.9  | 6209.3  | 6092.3  | 5885.8  | 5524.1  | 5051.9  | 4971.2  | 4893.5  | 4874.6  | 4771.4  |
| 10°   | 6950.2  | 6943.0  | 6881.2  | 6850.0  | 6721.3  | 6407.5  | 5947.7  | 5870.0  | 5785.7  | 5756.5  | 5647.7  |
| 12.5° | 7490.8  | 7489.2  | 7460.1  | 7468.8  | 7356.4  | 7129.5  | 6733.0  | 6662.5  | 6600.7  | 6510.7  | 6433.6  |
| 15°   | 7864.8  | 7866.3  | 7909.8  | 7957.8  | 7940.4  | 7787.1  | 7415.1  | 7384.0  | 7330.8  | 7269.0  | 7177.5  |
| 17.5° | 8171.4  | 8180.1  | 8224.5  | 8312.4  | 8407.4  | 8395.2  | 8100.9  | 8074.8  | 8028.3  | 7944.0  | 7896.0  |
| 20°   | 8863.7  | 8896.4  | 8810.6  | 8810.6  | 8820.8  | 8867.3  | 8725.8  | 8705.3  | 8639.9  | 8595.0  | 8557.2  |
| 22.5° | 10033.3 | 10071.2 | 9876.5  | 9678.7  | 9484.1  | 9342.5  | 9201.5  | 9227.0  | 9182.6  | 9151.4  | 9128.9  |
| 25°   | 11552.4 | 11582.1 | 11266.8 | 10932.6 | 10536.1 | 10019.5 | 9670.0  | 9654.2  | 9630.2  | 9611.3  | 9601.1  |
| 27.5° | 12982.1 | 12994.4 | 12696.5 | 12207.0 | 11747.1 | 11004.7 | 10145.2 | 10126.3 | 10097.2 | 10060.9 | 10029.8 |
| 30°   | 14205.4 | 14201.8 | 13895.2 | 13428.2 | 12935.6 | 12114.0 | 10867.2 | 10808.5 | 10722.1 | 10624.0 | 10548.4 |
| 32.5° | 15264.6 | 15259.5 | 14923.3 | 14439.4 | 13922.8 | 13213.1 | 11856.0 | 11735.4 | 11601.0 | 11409.4 | 11294.4 |
| 35°   | 16098.0 | 16094.9 | 15777.6 | 15273.3 | 14680.6 | 14248.3 | 12989.3 | 12841.1 | 12670.4 | 12413.9 | 12236.6 |
| 37.5° | 16413.3 | 16413.3 | 16236.0 | 15891.6 | 15367.8 | 15071.5 | 14248.3 | 14069.0 | 13886.5 | 13595.3 | 13395.5 |
| 40°   | 16228.8 | 16232.4 | 16270.2 | 16206.8 | 15951.9 | 15724.5 | 15423.0 | 15316.2 | 15159.4 | 14897.7 | 14689.3 |
| 42.5° | 15610.5 | 15629.4 | 15881.4 | 16189.5 | 16316.7 | 16280.9 | 16464.9 | 16416.8 | 16306.5 | 16105.2 | 15939.6 |
| 45°   | 14826.7 | 14885.5 | 15160.9 | 15743.4 | 16418.4 | 16761.2 | 17338.1 | 17343.2 | 17322.8 | 17214.5 | 17086.7 |
| 47.5° | 13750.6 | 13832.9 | 14196.7 | 14983.6 | 16180.8 | 17228.3 | 18225.2 | 18271.7 | 18315.1 | 18244.6 | 18185.8 |
| 50°   | 12320.9 | 12419.0 | 12963.2 | 14007.1 | 15696.9 | 17712.1 | 19901.1 | 20111.6 | 20307.9 | 20283.8 | 20323.2 |
| 52.5° | 10789.6 | 10905.0 | 11571.3 | 12734.3 | 14865.0 | 17824.0 | 20972.6 | 21315.5 | 21658.3 | 21938.9 | 22236.8 |
| 55°   | 9407.9  | 9346.1  | 10012.9 | 11237.2 | 13497.2 | 17319.2 | 21935.8 | 22349.2 | 22731.4 | 23075.8 | 23430.9 |
| 57.5° | 7535.7  | 7637.4  | 8305.8  | 9516.8  | 11686.8 | 15894.6 | 22598.5 | 23203.5 | 23752.8 | 24323.0 | 24825.8 |
| 60°   | 5508.2  | 5609.9  | 6335.0  | 7564.9  | 9721.7  | 13734.8 | 22092.2 | 23008.8 | 23888.7 | 24762.0 | 25444.1 |
| 62.5° | 3325.9  | 3402.0  | 4040.7  | 5212.4  | 7496.4  | 11173.8 | 19835.7 | 21038.0 | 22333.3 | 23377.2 | 24422.7 |
| 65°   | 2070.4  | 2113.4  | 2349.4  | 2993.8  | 4814.3  | 8342.0  | 16206.8 | 17517.5 | 18912.4 | 20237.3 | 21324.2 |
| 67.5° | 1694.9  | 1710.2  | 1753.6  | 1891.1  | 2643.7  | 5439.8  | 12062.4 | 13223.3 | 14482.3 | 15763.8 | 16973.3 |
| 70°   | 1524.2  | 1514.0  | 1514.0  | 1522.7  | 1694.9  | 2924.8  | 7897.5  | 8653.7  | 9702.7  | 10817.2 | 11922.9 |
| 72.5° | 1376.0  | 1365.8  | 1346.9  | 1321.4  | 1383.2  | 1784.3  | 4082.1  | 4652.4  | 5408.6  | 6398.8  | 7458.1  |
| 75°   | 1236.5  | 1222.7  | 1200.8  | 1168.1  | 1211.0  | 1346.9  | 1960.1  | 2199.7  | 2568.1  | 3095.4  | 3686.1  |
| 77.5° | 1091.9  | 1074.6  | 1054.1  | 1030.1  | 1085.3  | 1047.5  | 1148.7  | 1235.0  | 1376.0  | 1545.2  | 1767.4  |
| 80°   | 928.4   | 913.1   | 905.9   | 894.2   | 959.6   | 797.6   | 811.4   | 864.6   | 947.3   | 1038.8  | 1142.0  |
| 82.5° | 727.1   | 727.1   | 754.2   | 759.8   | 831.9   | 573.8   | 606.5   | 653.0   | 695.9   | 744.0   | 792.5   |
| 85°   | 478.8   | 482.4   | 575.3   | 611.6   | 656.1   | 385.8   | 454.8   | 470.1   | 504.8   | 532.4   | 552.9   |
| 87.5° | 149.7   | 162.0   | 351.5   | 389.4   | 377.1   | 218.7   | 279.0   | 286.1   | 310.2   | 329.1   | 346.4   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  |
| 2.5°  | 3281.4  | 3260.5  | 3241.6  | 3240.0  | 3226.2  | 3207.3  | 3214.0  | 3184.9  | 3186.4  | 3171.1  | 3153.7  |
| 5°    | 3858.3  | 3844.5  | 3775.5  | 3756.6  | 3705.0  | 3672.3  | 3667.2  | 3598.2  | 3589.5  | 3550.2  | 3506.8  |
| 7.5°  | 4688.6  | 4643.7  | 4547.1  | 4500.6  | 4412.7  | 4347.3  | 4316.6  | 4225.2  | 4180.2  | 4077.0  | 4030.5  |
| 10°   | 5558.3  | 5501.6  | 5382.5  | 5317.1  | 5232.8  | 5127.5  | 5070.8  | 4938.5  | 4886.4  | 4791.8  | 4678.4  |
| 12.5° | 6364.6  | 6307.9  | 6185.3  | 6135.2  | 6023.3  | 5911.4  | 5849.5  | 5699.8  | 5632.4  | 5480.6  | 5391.2  |
| 15°   | 7110.1  | 7053.4  | 6946.6  | 6895.0  | 6783.1  | 6691.6  | 6608.8  | 6461.2  | 6382.0  | 6240.4  | 6123.4  |
| 17.5° | 7833.6  | 7773.3  | 7680.3  | 7633.8  | 7525.5  | 7432.5  | 7343.1  | 7203.1  | 7122.4  | 6981.3  | 6876.1  |
| 20°   | 8505.5  | 8460.6  | 8393.6  | 8331.3  | 8223.0  | 8138.7  | 8031.9  | 7911.3  | 7794.3  | 7690.6  | 7590.9  |
| 22.5° | 9091.1  | 9073.7  | 9001.7  | 8974.1  | 8881.1  | 8808.6  | 8715.6  | 8597.0  | 8512.2  | 8381.4  | 8288.4  |
| 25°   | 9596.0  | 9590.8  | 9556.1  | 9547.4  | 9482.0  | 9413.0  | 9392.6  | 9294.5  | 9216.8  | 9101.3  | 9005.3  |
| 27.5° | 10029.8 | 10034.9 | 10026.7 | 10050.7 | 10033.3 | 10002.2 | 10004.2 | 9971.5  | 9926.5  | 9830.0  | 9745.7  |
| 30°   | 10512.1 | 10484.5 | 10500.4 | 10534.6 | 10544.8 | 10548.4 | 10605.1 | 10624.0 | 10621.0 | 10557.1 | 10515.7 |
| 32.5° | 11194.3 | 11128.9 | 11068.6 | 11063.4 | 11097.7 | 11111.5 | 11208.1 | 11258.1 | 11301.0 | 11316.4 | 11323.5 |
| 35°   | 12063.9 | 11933.1 | 11807.4 | 11740.5 | 11681.7 | 11697.0 | 11766.0 | 11847.3 | 11941.8 | 12007.2 | 12084.9 |
| 37.5° | 13159.4 | 12999.5 | 12777.2 | 12618.8 | 12579.0 | 12493.1 | 12537.6 | 12601.5 | 12694.5 | 12796.1 | 12930.5 |
| 40°   | 14487.4 | 14244.7 | 13994.9 | 13784.9 | 13671.4 | 13512.5 | 13511.0 | 13498.7 | 13555.9 | 13650.5 | 13840.0 |
| 42.5° | 15765.9 | 15550.2 | 15285.1 | 15064.8 | 14916.6 | 14704.6 | 14661.7 | 14549.8 | 14575.3 | 14658.1 | 14842.6 |
| 45°   | 16962.6 | 16785.3 | 16623.3 | 16368.8 | 16242.6 | 16013.7 | 15941.1 | 15808.8 | 15734.7 | 15772.5 | 15957.0 |
| 47.5° | 18121.9 | 18008.5 | 17839.4 | 17674.3 | 17577.8 | 17372.9 | 17279.9 | 17184.8 | 17090.3 | 17086.7 | 17279.9 |
| 50°   | 20381.9 | 20321.7 | 20121.9 | 19949.7 | 19996.2 | 19744.8 | 19760.1 | 19505.1 | 19620.6 | 19634.4 | 20039.1 |
| 52.5° | 22505.5 | 22716.0 | 22864.2 | 23044.6 | 23162.1 | 23184.6 | 23261.8 | 23377.2 | 23516.7 | 23792.1 | 24167.7 |
| 55°   | 23721.6 | 23985.3 | 24138.6 | 24276.5 | 24503.9 | 24551.9 | 24681.2 | 24834.5 | 24956.6 | 25266.8 | 25585.6 |
| 57.5° | 25167.1 | 25656.1 | 25893.7 | 26112.4 | 26419.0 | 26536.0 | 26751.7 | 26918.7 | 27077.1 | 27444.0 | 27829.8 |
| 60°   | 26057.3 | 26653.6 | 27137.4 | 27483.4 | 27867.6 | 28143.5 | 28469.0 | 28730.6 | 29102.6 | 29542.0 | 30117.4 |
| 62.5° | 25349.6 | 26224.3 | 26867.1 | 27461.4 | 27983.1 | 28510.4 | 28976.9 | 29466.4 | 30031.0 | 30695.8 | 31588.5 |
| 65°   | 22530.1 | 23420.2 | 24520.8 | 25137.5 | 25828.3 | 26641.3 | 27351.0 | 28143.5 | 28913.0 | 29881.3 | 31200.6 |
| 67.5° | 18137.8 | 19172.5 | 20409.5 | 21031.4 | 21825.4 | 22732.9 | 23529.0 | 24496.8 | 25396.1 | 26568.7 | 28200.2 |
| 70°   | 13073.6 | 14411.8 | 15452.1 | 16101.6 | 17028.5 | 17963.5 | 18732.0 | 19858.2 | 20602.2 | 21804.5 | 23491.2 |
| 72.5° | 8278.2  | 9333.8  | 10608.7 | 11426.7 | 12249.9 | 13197.8 | 13983.1 | 14954.5 | 15648.4 | 16743.9 | 18271.7 |
| 75°   | 4451.0  | 5229.2  | 6348.8  | 7125.9  | 8007.9  | 8817.2  | 9737.0  | 10388.0 | 10901.5 | 11768.1 | 13008.2 |
| 77.5° | 2085.8  | 2559.4  | 3126.1  | 3723.9  | 4321.8  | 4945.1  | 5551.7  | 6078.5  | 6299.2  | 6795.3  | 7527.0  |
| 80°   | 1266.2  | 1419.5  | 1584.5  | 1769.0  | 2018.8  | 2220.1  | 2487.4  | 2680.0  | 2693.8  | 2850.7  | 3074.5  |
| 82.5° | 845.6   | 902.4   | 952.4   | 998.9   | 1062.8  | 1112.9  | 1169.6  | 1236.5  | 1264.1  | 1300.4  | 1373.0  |
| 85°   | 576.9   | 604.5   | 614.7   | 644.3   | 637.2   | 654.5   | 677.0   | 699.5   | 711.3   | 709.7   | 742.4   |
| 87.5° | 354.6   | 368.4   | 375.6   | 382.2   | 377.1   | 370.5   | 380.7   | 392.9   | 396.0   | 385.8   | 389.4   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5  | 2957.5 | 2957.5 | 2957.5 | 2957.5 |
| 2.5°  | 3157.3  | 3141.9  | 3126.1  | 3115.9  | 3112.3  | 3021.3  | 2981.5  | 2955.9 | 2900.8 | 2855.8 | 2819.5 |
| 5°    | 3482.7  | 3450.0  | 3424.5  | 3393.3  | 3376.0  | 3145.0  | 3060.7  | 3002.4 | 2905.9 | 2849.1 | 2797.0 |
| 7.5°  | 4006.5  | 3915.0  | 3861.9  | 3801.6  | 3750.0  | 3333.0  | 3193.5  | 3102.1 | 2967.7 | 2892.1 | 2833.3 |
| 10°   | 4600.7  | 4506.2  | 4421.4  | 4328.4  | 4247.7  | 3582.9  | 3379.5  | 3238.0 | 3060.7 | 2962.6 | 2884.9 |
| 12.5° | 5264.0  | 5171.0  | 5064.2  | 4945.1  | 4841.9  | 3899.7  | 3617.1  | 3415.8 | 3172.6 | 3041.8 | 2933.5 |
| 15°   | 6047.8  | 5883.8  | 5754.5  | 5617.1  | 5496.5  | 4278.8  | 3894.6  | 3615.6 | 3291.6 | 3114.3 | 2969.7 |
| 17.5° | 6775.9  | 6603.7  | 6428.5  | 6307.9  | 6168.4  | 4704.0  | 4173.6  | 3818.5 | 3389.8 | 3160.8 | 2976.4 |
| 20°   | 7487.7  | 7299.7  | 7148.4  | 6986.4  | 6839.8  | 5144.9  | 4471.5  | 3997.8 | 3453.6 | 3162.4 | 2933.5 |
| 22.5° | 8114.7  | 7997.1  | 7828.5  | 7652.7  | 7504.6  | 5585.9  | 4750.5  | 4149.6 | 3477.6 | 3123.0 | 2857.3 |
| 25°   | 8827.5  | 8703.8  | 8496.9  | 8348.7  | 8183.6  | 6035.5  | 5024.3  | 4266.6 | 3463.8 | 3048.9 | 2740.3 |
| 27.5° | 9588.8  | 9451.3  | 9239.3  | 9084.5  | 8884.7  | 6502.0  | 5275.7  | 4350.9 | 3412.2 | 2928.3 | 2583.4 |
| 30°   | 10382.8 | 10257.1 | 10048.7 | 9892.3  | 9690.5  | 6996.7  | 5556.8  | 4407.6 | 3309.0 | 2761.3 | 2401.0 |
| 32.5° | 11235.6 | 11130.4 | 10924.0 | 10760.4 | 10544.8 | 7532.2  | 5818.4  | 4425.0 | 3152.2 | 2563.0 | 2208.4 |
| 35°   | 12045.0 | 11973.0 | 11798.7 | 11645.4 | 11421.6 | 8038.5  | 6095.8  | 4416.3 | 2966.2 | 2345.8 | 2032.6 |
| 37.5° | 12956.6 | 12913.1 | 12827.3 | 12632.6 | 12358.7 | 8725.8  | 6428.5  | 4380.0 | 2738.8 | 2130.7 | 1898.2 |
| 40°   | 13927.9 | 13931.5 | 13838.5 | 13705.7 | 13450.7 | 9559.7  | 6824.5  | 4309.5 | 2490.5 | 1941.2 | 1775.6 |
| 42.5° | 14956.0 | 15009.6 | 14964.7 | 14870.1 | 14625.4 | 10400.2 | 7298.1  | 4223.6 | 2249.8 | 1756.7 | 1655.5 |
| 45°   | 16134.3 | 16199.7 | 16268.7 | 16129.2 | 15891.6 | 11509.5 | 7921.5  | 4111.7 | 1989.2 | 1603.4 | 1572.8 |
| 47.5° | 17493.5 | 17596.7 | 17658.5 | 17660.5 | 17422.9 | 12884.0 | 8934.3  | 4044.3 | 1758.7 | 1500.2 | 1532.9 |
| 50°   | 20361.0 | 20394.2 | 20540.3 | 20795.3 | 20612.9 | 16065.3 | 10703.2 | 4002.9 | 1601.9 | 1436.3 | 1503.8 |
| 52.5° | 24493.2 | 24853.4 | 25106.9 | 25089.5 | 24841.2 | 18085.7 | 11678.1 | 3789.3 | 1508.9 | 1412.3 | 1490.0 |
| 55°   | 26176.3 | 26626.0 | 27094.5 | 27218.2 | 27025.5 | 19810.2 | 12599.9 | 3575.7 | 1463.9 | 1429.7 | 1495.1 |
| 57.5° | 28418.9 | 29176.7 | 29819.5 | 30089.8 | 29810.8 | 22016.5 | 13812.4 | 3463.8 | 1450.1 | 1476.2 | 1527.8 |
| 60°   | 31038.7 | 31975.8 | 32819.9 | 33305.3 | 33305.3 | 24551.9 | 15069.9 | 3417.3 | 1431.2 | 1545.2 | 1583.0 |
| 62.5° | 32721.8 | 34097.8 | 35372.7 | 36084.0 | 36063.0 | 26317.3 | 15627.9 | 3258.9 | 1388.3 | 1593.2 | 1658.6 |
| 65°   | 32728.4 | 34365.1 | 35988.9 | 36788.6 | 36829.5 | 26100.7 | 14706.6 | 2878.3 | 1309.1 | 1600.3 | 1734.7 |
| 67.5° | 30000.4 | 31744.8 | 33638.0 | 34532.1 | 34738.6 | 24026.7 | 12730.7 | 2366.8 | 1179.8 | 1531.4 | 1762.3 |
| 70°   | 25337.3 | 27040.9 | 28973.3 | 29852.2 | 30219.1 | 20481.6 | 10253.6 | 1824.2 | 1014.8 | 1379.6 | 1705.1 |
| 72.5° | 19961.4 | 21632.3 | 22977.7 | 23619.9 | 23906.1 | 15655.5 | 7466.8  | 1378.1 | 831.9  | 1162.4 | 1551.8 |
| 75°   | 14132.8 | 15386.7 | 16101.6 | 16244.7 | 16289.1 | 9437.6  | 4536.9  | 1025.0 | 685.7  | 904.4  | 1310.6 |
| 77.5° | 7976.7  | 8514.2  | 8455.5  | 8519.3  | 7989.0  | 3643.2  | 1975.9  | 733.7  | 565.1  | 687.3  | 1016.3 |
| 80°   | 3114.3  | 3210.9  | 3016.2  | 2955.9  | 2711.2  | 1355.6  | 871.7   | 511.5  | 451.2  | 520.2  | 711.3  |
| 82.5° | 1373.0  | 1417.4  | 1376.0  | 1386.8  | 1326.5  | 699.5   | 521.7   | 370.5  | 344.4  | 380.7  | 472.1  |
| 85°   | 756.2   | 770.0   | 766.4   | 788.9   | 756.2   | 279.0   | 247.8   | 227.4  | 241.2  | 258.5  | 303.0  |
| 87.5° | 368.4   | 372.0   | 360.2   | 379.1   | 366.9   | 141.0   | 122.1   | 129.3  | 141.0  | 144.6  | 144.6  |
| 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):**

|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 2957.5 | 2957.5 | 2957.5 | 2957.5 | 2957.5 | 2957.5 |
| 2.5°  | 2794.0 | 2780.2 | 2781.7 | 2778.1 | 2771.5 | 2771.5 |
| 5°    | 2769.9 | 2756.2 | 2756.2 | 2752.6 | 2743.9 | 2745.4 |
| 7.5°  | 2794.0 | 2771.5 | 2762.8 | 2750.5 | 2738.8 | 2738.8 |
| 10°   | 2821.6 | 2781.7 | 2757.7 | 2737.2 | 2721.4 | 2721.4 |
| 12.5° | 2842.0 | 2780.2 | 2740.3 | 2712.7 | 2697.4 | 2697.4 |
| 15°   | 2849.1 | 2767.9 | 2712.7 | 2680.0 | 2666.2 | 2664.7 |
| 17.5° | 2826.7 | 2721.4 | 2654.5 | 2616.7 | 2599.3 | 2594.2 |
| 20°   | 2757.7 | 2637.1 | 2556.4 | 2512.9 | 2488.9 | 2480.2 |
| 22.5° | 2654.5 | 2516.5 | 2422.0 | 2377.0 | 2345.8 | 2340.7 |
| 25°   | 2509.9 | 2361.7 | 2268.7 | 2225.3 | 2208.4 | 2202.8 |
| 27.5° | 2340.7 | 2202.8 | 2123.6 | 2096.0 | 2080.7 | 2079.1 |
| 30°   | 2180.8 | 2063.3 | 2005.0 | 1984.1 | 1965.2 | 1962.1 |
| 32.5° | 2030.6 | 1956.5 | 1934.5 | 1904.9 | 1860.4 | 1855.3 |
| 35°   | 1923.8 | 1917.1 | 1901.8 | 1835.9 | 1781.2 | 1765.4 |
| 37.5° | 1858.4 | 1922.3 | 1843.1 | 1713.8 | 1674.4 | 1670.9 |
| 40°   | 1820.6 | 1869.1 | 1732.7 | 1688.2 | 1691.3 | 1688.2 |
| 42.5° | 1734.7 | 1784.3 | 1736.3 | 1715.8 | 1729.1 | 1732.7 |
| 45°   | 1648.4 | 1703.6 | 1762.3 | 1748.5 | 1781.2 | 1781.2 |
| 47.5° | 1600.3 | 1682.6 | 1760.3 | 1760.3 | 1808.8 | 1825.7 |
| 50°   | 1545.2 | 1665.8 | 1732.7 | 1756.7 | 1795.0 | 1781.2 |
| 52.5° | 1541.6 | 1636.1 | 1693.3 | 1736.3 | 1753.6 | 1737.8 |
| 55°   | 1546.7 | 1612.1 | 1653.5 | 1702.0 | 1722.5 | 1724.0 |
| 57.5° | 1553.8 | 1598.3 | 1625.9 | 1648.4 | 1710.2 | 1710.2 |
| 60°   | 1570.7 | 1586.6 | 1601.9 | 1614.1 | 1694.9 | 1696.4 |
| 62.5° | 1598.3 | 1574.3 | 1570.7 | 1583.0 | 1686.2 | 1679.5 |
| 65°   | 1641.7 | 1556.9 | 1531.4 | 1543.1 | 1677.5 | 1657.1 |
| 67.5° | 1700.0 | 1531.4 | 1481.3 | 1490.0 | 1670.9 | 1625.9 |
| 70°   | 1753.6 | 1490.0 | 1419.5 | 1410.8 | 1605.5 | 1526.3 |
| 72.5° | 1758.7 | 1441.9 | 1333.1 | 1307.6 | 1395.4 | 1319.3 |
| 75°   | 1672.4 | 1408.7 | 1238.6 | 1162.4 | 1152.2 | 1142.0 |
| 77.5° | 1507.4 | 1389.8 | 1128.2 | 1009.2 | 988.7  | 995.4  |
| 80°   | 1261.1 | 1319.3 | 995.4  | 854.3  | 966.2  | 954.5  |
| 82.5° | 942.2  | 1164.5 | 845.6  | 756.2  | 754.2  | 666.8  |
| 85°   | 523.7  | 908.0  | 688.8  | 566.7  | 394.5  | 382.2  |
| 87.5° | 146.6  | 504.8  | 482.4  | 320.4  | 218.7  | 227.4  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)