

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: P322003

Luminaire Tested: **GAN-SA9B-760-U-T2-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P322003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-760-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 36343 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

Input Watts (W): 374  
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: 24 FT

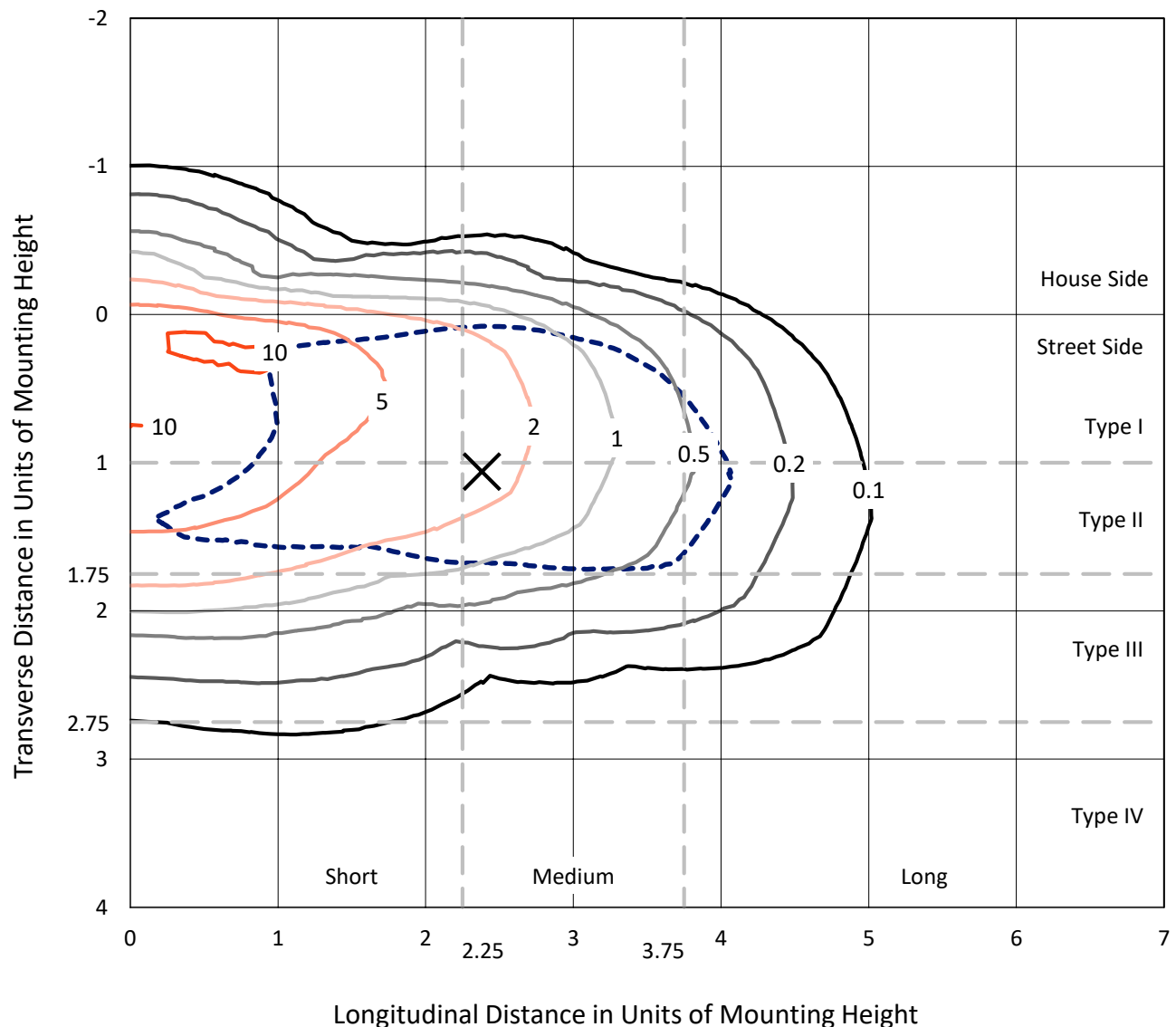


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## Iso-Footcandle Lines of Horizontal Illumination

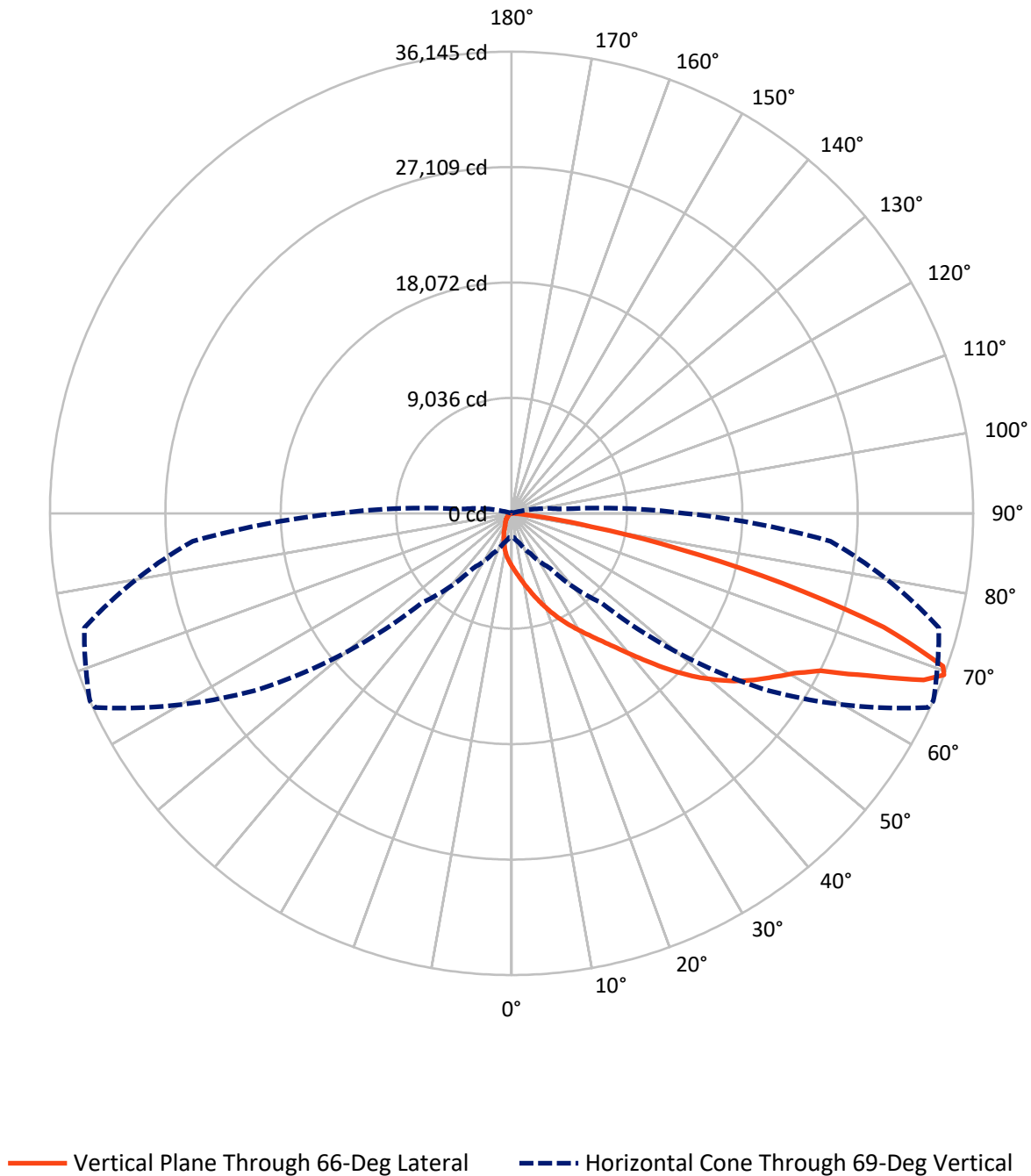
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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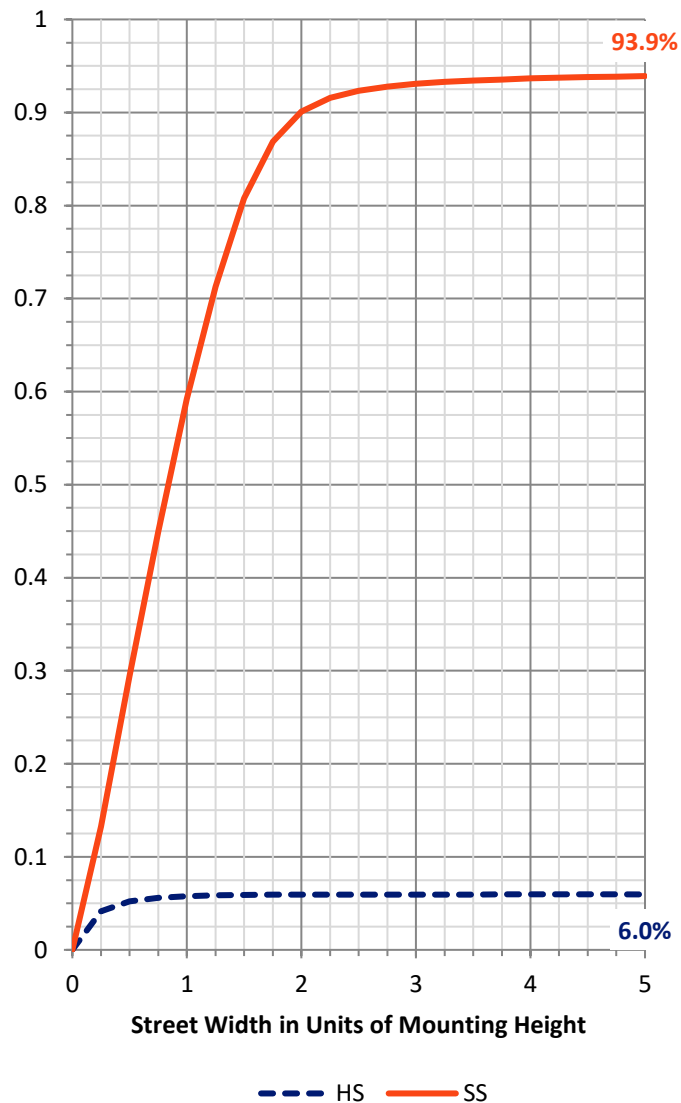
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2180.1   | 0.0    | 2180.1  |
|                    | % Fixture | 6.0      | 0.0    | 6.0     |
| <b>Street Side</b> | Lumens    | 34162.9  | 0.0    | 34162.9 |
|                    | % Fixture | 94.0     | 0.0    | 94.0    |
| <b>Total</b>       | Lumens    | 36343.0  | 0.0    | 36343.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 399.8   | 1.1       |
| 10°-20°   | 1189.9  | 3.3       |
| 20°-30°   | 2072.0  | 5.7       |
| 30°-40°   | 3635.3  | 10.0      |
| 40°-50°   | 6084.9  | 16.7      |
| 50°-60°   | 8944.3  | 24.6      |
| 60°-70°   | 9183.5  | 25.3      |
| 70°-80°   | 4533.6  | 12.5      |
| 80°-90°   | 299.8   | 0.8       |
| 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°    | 36343.0 | 100.0     |
| 0°-180°   | 36343.0 | 100.0     |

**Coefficient of Utilization**



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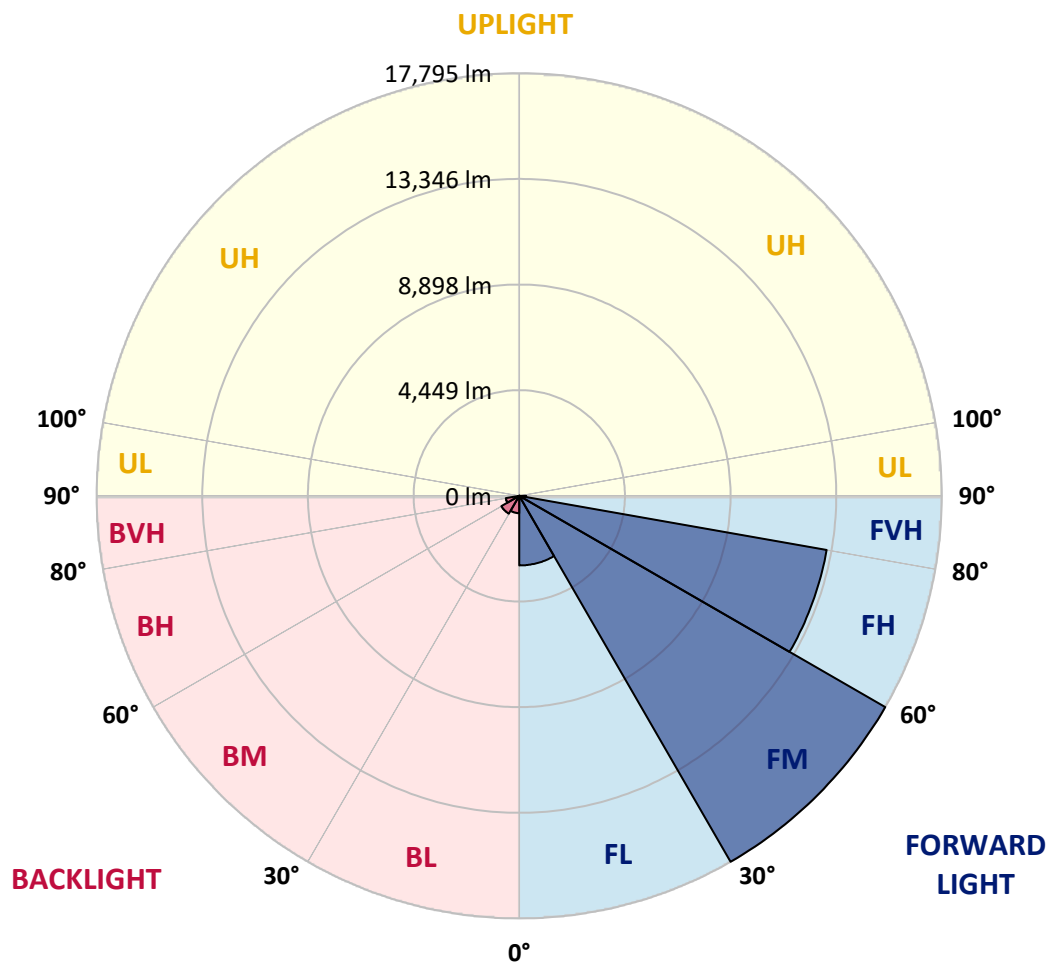
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2932.5  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 17795.3 | 49.0      |                         |      |         |
| FH   | (60°-80°)   | 13142.6 | 36.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 292.5   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 729.1   | 2.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 869.2   | 2.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 574.5   | 1.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 7.2     | 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-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4136.0  | 4136.0  | 4136.0  | 4136.0  | 4136.0  | 4136.0  | 4136.0  | 4136.0  | 4136.0  | 4136.0  | 4136.0  |
| 2.5°  | 4867.9  | 4847.1  | 4838.5  | 4800.5  | 4734.9  | 4684.9  | 4588.2  | 4476.0  | 4455.3  | 4346.5  | 4213.6  |
| 5°    | 5499.6  | 5482.4  | 5470.3  | 5416.8  | 5349.5  | 5223.4  | 5047.4  | 4838.5  | 4798.8  | 4591.7  | 4325.8  |
| 7.5°  | 5939.8  | 5970.9  | 5970.9  | 5936.4  | 5851.8  | 5756.8  | 5541.1  | 5256.2  | 5206.2  | 4888.6  | 4476.0  |
| 10°   | 6197.0  | 6235.0  | 6264.3  | 6293.7  | 6281.6  | 6243.6  | 6039.9  | 5718.9  | 5658.4  | 5237.3  | 4650.4  |
| 12.5° | 6221.2  | 6259.2  | 6342.0  | 6464.6  | 6583.7  | 6670.0  | 6542.3  | 6231.5  | 6162.5  | 5641.2  | 4857.5  |
| 15°   | 6086.5  | 6126.2  | 6254.0  | 6492.2  | 6780.5  | 7032.5  | 7073.9  | 6799.5  | 6728.7  | 6122.8  | 5116.4  |
| 17.5° | 5851.8  | 5877.7  | 6060.7  | 6390.4  | 6842.6  | 7305.2  | 7555.5  | 7408.8  | 7343.2  | 6673.4  | 5404.7  |
| 20°   | 5677.4  | 5696.4  | 5857.0  | 6210.8  | 6804.6  | 7476.1  | 8011.2  | 8056.1  | 7987.1  | 7263.8  | 5717.1  |
| 22.5° | 5976.1  | 6010.6  | 6015.8  | 6183.2  | 6701.1  | 7560.7  | 8411.7  | 8693.1  | 8641.3  | 7890.4  | 6024.4  |
| 25°   | 6792.6  | 6832.3  | 6701.1  | 6597.5  | 6789.1  | 7598.7  | 8755.2  | 9345.6  | 9304.2  | 8565.4  | 6333.4  |
| 27.5° | 7871.4  | 7912.9  | 7743.7  | 7434.7  | 7250.0  | 7742.0  | 9060.8  | 10008.4 | 10006.7 | 9280.0  | 6666.5  |
| 30°   | 8931.3  | 8972.7  | 8800.1  | 8491.1  | 8066.5  | 8147.6  | 9324.9  | 10702.4 | 10712.7 | 10017.1 | 7020.4  |
| 32.5° | 10043.0 | 10094.8 | 9917.0  | 9519.9  | 9076.3  | 8848.4  | 9696.0  | 11399.8 | 11458.4 | 10871.5 | 7419.2  |
| 35°   | 11306.5 | 11313.4 | 11063.1 | 10647.1 | 10136.2 | 9785.8  | 10291.5 | 12181.7 | 12321.5 | 11929.7 | 7924.9  |
| 37.5° | 12545.9 | 12596.0 | 12390.6 | 11734.6 | 11265.1 | 10868.1 | 11177.1 | 13158.7 | 13357.3 | 13222.6 | 8586.1  |
| 40°   | 13464.3 | 13569.6 | 13540.2 | 12832.5 | 12387.1 | 12104.0 | 12276.7 | 14320.5 | 14572.5 | 14727.8 | 9419.8  |
| 42.5° | 14040.8 | 14120.2 | 14254.9 | 13828.5 | 13424.6 | 13471.2 | 13574.8 | 15673.8 | 15984.5 | 16443.7 | 10377.9 |
| 45°   | 14702.0 | 14739.9 | 14852.1 | 14664.0 | 14391.2 | 14860.8 | 14952.3 | 17198.0 | 17524.3 | 18289.0 | 11441.2 |
| 47.5° | 15509.8 | 15599.6 | 15630.6 | 15458.0 | 15333.7 | 16089.8 | 16279.7 | 18584.2 | 19041.6 | 20265.5 | 12566.7 |
| 50°   | 16538.6 | 16562.8 | 16616.3 | 16504.1 | 16379.8 | 17146.2 | 17470.8 | 20039.3 | 20455.3 | 22248.9 | 13676.6 |
| 52.5° | 17545.0 | 17631.3 | 17817.7 | 17747.0 | 17696.9 | 18045.6 | 18532.4 | 21351.2 | 21815.6 | 23902.5 | 14784.8 |
| 55°   | 17835.0 | 17909.2 | 18553.1 | 18993.3 | 19400.6 | 19153.8 | 19547.4 | 22526.8 | 23029.1 | 25380.2 | 15851.6 |
| 57.5° | 16676.7 | 16826.9 | 17942.0 | 19088.2 | 20778.1 | 20876.5 | 20942.1 | 23733.4 | 24183.9 | 26512.5 | 16961.5 |
| 60°   | 13749.1 | 13778.4 | 15608.2 | 17574.3 | 20550.3 | 22380.0 | 22979.0 | 25029.7 | 25407.8 | 27567.2 | 18290.7 |
| 62.5° | 8744.9  | 9043.5  | 11051.1 | 13826.8 | 18140.5 | 22162.5 | 25442.3 | 26990.7 | 27128.8 | 28832.5 | 20196.4 |
| 65°   | 4165.3  | 4358.6  | 5805.2  | 8542.9  | 13139.8 | 19378.2 | 27142.6 | 30538.0 | 30600.2 | 31340.7 | 22742.5 |
| 67.5° | 2306.2  | 2399.4  | 3088.2  | 4598.6  | 7681.5  | 13704.2 | 26455.6 | 34739.6 | 34798.3 | 33902.4 | 24976.2 |
| 69°   | 1803.9  | 1883.3  | 2425.3  | 3466.2  | 5207.9  | 9849.6  | 23940.5 | 35970.3 | 36144.7 | 34636.0 | 25055.6 |
| 70°   | 1531.1  | 1608.8  | 2088.7  | 2927.6  | 4187.7  | 7610.8  | 21309.8 | 35664.8 | 35849.5 | 34566.9 | 24463.6 |
| 72.5° | 937.3   | 982.2   | 1391.3  | 2061.1  | 2806.8  | 3828.7  | 13141.5 | 30161.7 | 30474.1 | 31708.4 | 21025.0 |
| 75°   | 631.8   | 656.0   | 870.0   | 1422.4  | 2007.6  | 1971.3  | 6827.1  | 21259.8 | 21936.4 | 24665.5 | 15528.8 |
| 77.5° | 452.3   | 474.7   | 583.5   | 920.1   | 1406.8  | 1301.5  | 3091.6  | 13212.3 | 13357.3 | 14793.4 | 8468.7  |
| 80°   | 257.2   | 277.9   | 412.6   | 547.2   | 954.6   | 868.3   | 1229.0  | 6310.9  | 6383.4  | 6343.7  | 2827.5  |
| 82.5° | 134.6   | 151.9   | 226.1   | 360.8   | 612.8   | 567.9   | 511.0   | 2112.9  | 2123.2  | 1765.9  | 619.7   |
| 85°   | 25.9    | 31.1    | 112.2   | 246.8   | 315.9   | 246.8   | 208.9   | 495.4   | 505.8   | 447.1   | 153.6   |
| 87.5° | 0.0     | 1.7     | 44.9    | 55.2    | 62.1    | 63.9    | 67.3    | 96.7    | 103.6   | 139.8   | 41.4    |
| 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°    | 4136.0  | 4136.0 | 4136.0 | 4136.0 | 4136.0 | 4136.0 | 4136.0 | 4136.0 | 4136.0 | 4136.0 | 4136.0 |
| 2.5°  | 4154.9  | 4092.8 | 3973.7 | 3835.6 | 3728.6 | 3623.3 | 3540.4 | 3454.1 | 3423.0 | 3407.5 | 3405.8 |
| 5°    | 4196.4  | 4065.2 | 3813.2 | 3554.2 | 3341.9 | 3141.7 | 2998.4 | 2862.0 | 2798.2 | 2768.8 | 2756.7 |
| 7.5°  | 4265.4  | 4054.8 | 3649.2 | 3253.9 | 2948.3 | 2698.0 | 2499.5 | 2351.1 | 2276.8 | 2245.8 | 2233.7 |
| 10°   | 4346.5  | 4041.0 | 3457.6 | 2936.2 | 2546.1 | 2287.2 | 2090.4 | 1943.7 | 1862.6 | 1828.0 | 1810.8 |
| 12.5° | 4441.5  | 4016.8 | 3236.6 | 2615.2 | 2202.6 | 1943.7 | 1705.5 | 1524.2 | 1431.0 | 1391.3 | 1372.3 |
| 15°   | 4558.9  | 3992.7 | 3005.3 | 2313.1 | 1900.5 | 1584.6 | 1324.0 | 1201.4 | 1182.4 | 1175.5 | 1177.3 |
| 17.5° | 4674.5  | 3954.7 | 2753.3 | 2014.5 | 1582.9 | 1237.7 | 1104.8 | 1097.9 | 1101.3 | 1101.3 | 1101.3 |
| 20°   | 4778.1  | 3868.4 | 2478.8 | 1759.0 | 1280.8 | 1044.3 | 1016.7 | 1004.6 | 996.0  | 989.1  | 980.5  |
| 22.5° | 4859.2  | 3752.7 | 2214.7 | 1505.2 | 1046.1 | 956.3  | 913.2  | 875.2  | 844.1  | 823.4  | 813.0  |
| 25°   | 4914.5  | 3599.1 | 1973.0 | 1261.8 | 940.8  | 870.0  | 792.3  | 728.5  | 680.1  | 650.8  | 638.7  |
| 27.5° | 4955.9  | 3433.4 | 1757.3 | 1056.4 | 868.3  | 769.9  | 668.0  | 592.1  | 542.0  | 516.1  | 505.8  |
| 30°   | 4985.2  | 3245.2 | 1567.4 | 928.7  | 787.1  | 664.6  | 555.8  | 481.6  | 445.4  | 431.5  | 424.6  |
| 32.5° | 5012.9  | 3036.4 | 1387.9 | 868.3  | 711.2  | 567.9  | 466.1  | 409.1  | 386.7  | 369.4  | 364.2  |
| 35°   | 5081.9  | 2843.0 | 1217.0 | 804.4  | 633.5  | 485.1  | 400.5  | 359.0  | 336.6  | 326.2  | 322.8  |
| 37.5° | 5245.9  | 2699.8 | 1053.0 | 738.8  | 555.8  | 419.5  | 350.4  | 321.1  | 300.4  | 290.0  | 286.5  |
| 40°   | 5510.0  | 2627.3 | 914.9  | 668.0  | 479.9  | 369.4  | 317.6  | 290.0  | 267.6  | 252.0  | 248.6  |
| 42.5° | 5898.4  | 2637.6 | 818.2  | 597.3  | 419.5  | 329.7  | 286.5  | 253.7  | 229.6  | 215.8  | 212.3  |
| 45°   | 6369.6  | 2713.6 | 750.9  | 528.2  | 369.4  | 298.6  | 252.0  | 217.5  | 195.1  | 183.0  | 179.5  |
| 47.5° | 6880.6  | 2836.1 | 695.7  | 466.1  | 329.7  | 269.3  | 217.5  | 181.2  | 162.3  | 151.9  | 150.2  |
| 50°   | 7419.2  | 2955.2 | 638.7  | 405.7  | 295.2  | 239.9  | 183.0  | 150.2  | 134.6  | 126.0  | 122.6  |
| 52.5° | 7964.6  | 3093.3 | 586.9  | 350.4  | 265.8  | 205.4  | 151.9  | 122.6  | 110.5  | 103.6  | 100.1  |
| 55°   | 8551.5  | 3196.9 | 536.8  | 307.3  | 236.5  | 174.3  | 126.0  | 101.8  | 91.5   | 82.9   | 81.1   |
| 57.5° | 9242.0  | 3357.4 | 485.1  | 265.8  | 202.0  | 145.0  | 103.6  | 81.1   | 72.5   | 63.9   | 62.1   |
| 60°   | 10174.2 | 3545.6 | 429.8  | 234.8  | 165.7  | 119.1  | 84.6   | 65.6   | 55.2   | 48.3   | 46.6   |
| 62.5° | 11403.2 | 3754.5 | 360.8  | 205.4  | 134.6  | 96.7   | 67.3   | 51.8   | 39.7   | 31.1   | 31.1   |
| 65°   | 12962.0 | 4094.5 | 295.2  | 172.6  | 110.5  | 79.4   | 51.8   | 38.0   | 22.4   | 13.8   | 13.8   |
| 67.5° | 13871.7 | 4153.2 | 238.2  | 141.5  | 89.8   | 67.3   | 43.2   | 25.9   | 6.9    | 1.7    | 0.0    |
| 69°   | 13579.9 | 3813.2 | 202.0  | 120.8  | 77.7   | 63.9   | 39.7   | 19.0   | 3.5    | 0.0    | 0.0    |
| 70°   | 13031.0 | 3486.9 | 177.8  | 107.0  | 70.8   | 60.4   | 38.0   | 13.8   | 3.5    | 0.0    | 0.0    |
| 72.5° | 10768.0 | 2482.3 | 134.6  | 79.4   | 51.8   | 53.5   | 34.5   | 8.6    | 3.5    | 0.0    | 0.0    |
| 75°   | 7843.8  | 1508.7 | 96.7   | 55.2   | 32.8   | 39.7   | 24.2   | 3.5    | 1.7    | 0.0    | 0.0    |
| 77.5° | 4363.8  | 711.2  | 60.4   | 31.1   | 20.7   | 24.2   | 12.1   | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 1417.2  | 193.3  | 27.6   | 17.3   | 12.1   | 13.8   | 5.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 262.4   | 55.2   | 15.5   | 8.6    | 3.5    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 57.0    | 22.4   | 8.6    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 19.0    | 6.9    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)