

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: P533159

Luminaire Tested: **GLAN-SA8C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-740-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34527 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 429  
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



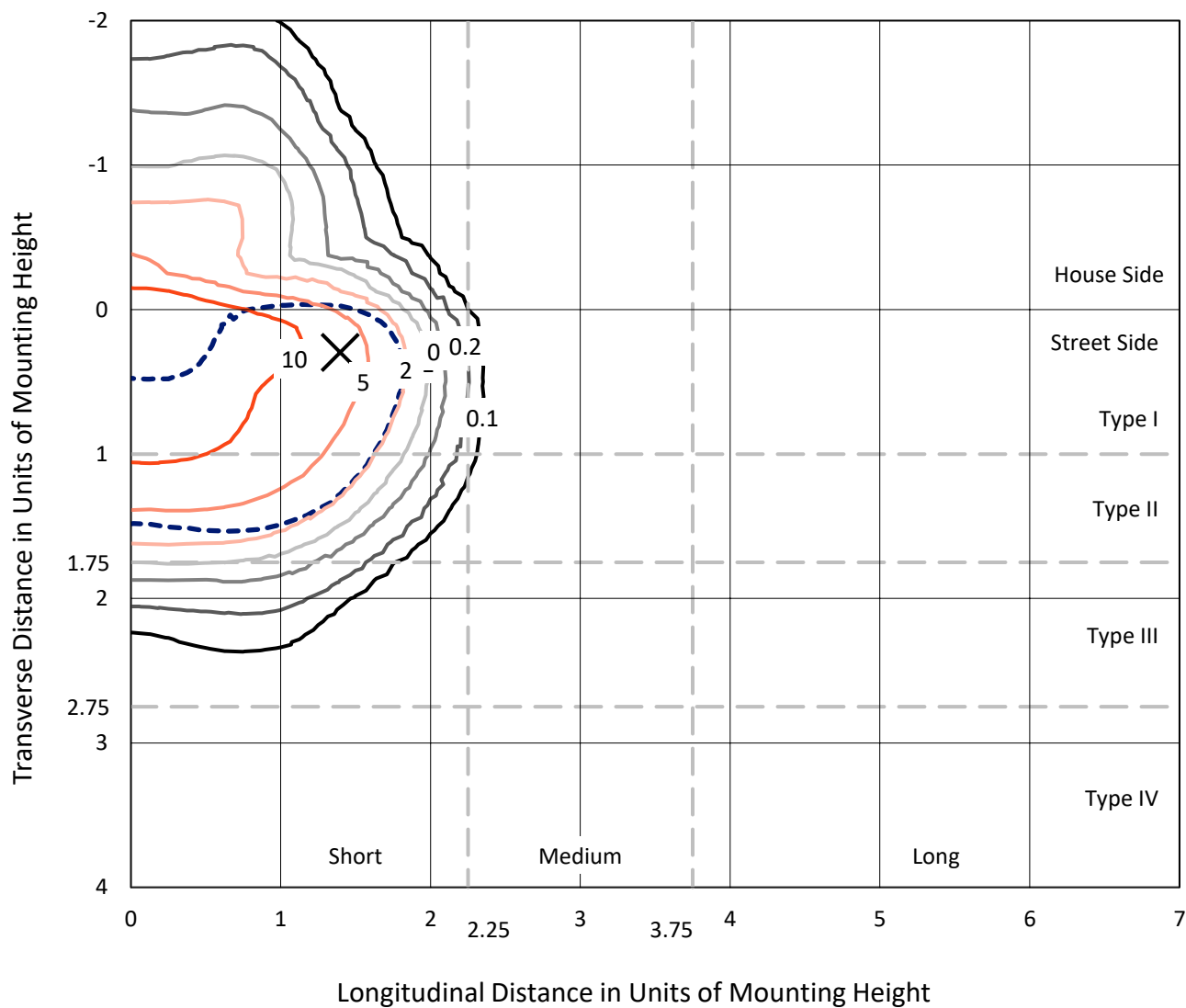
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

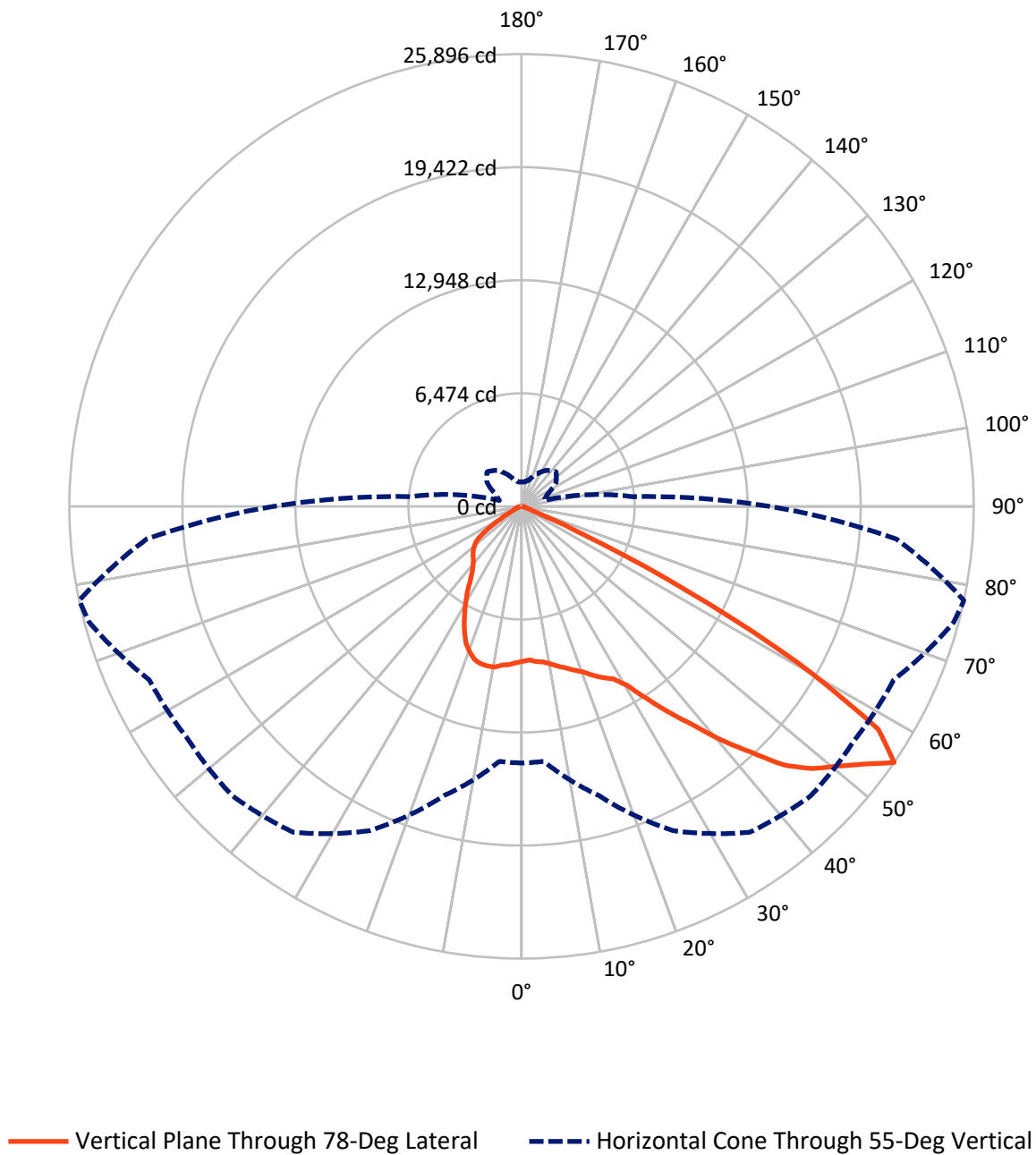


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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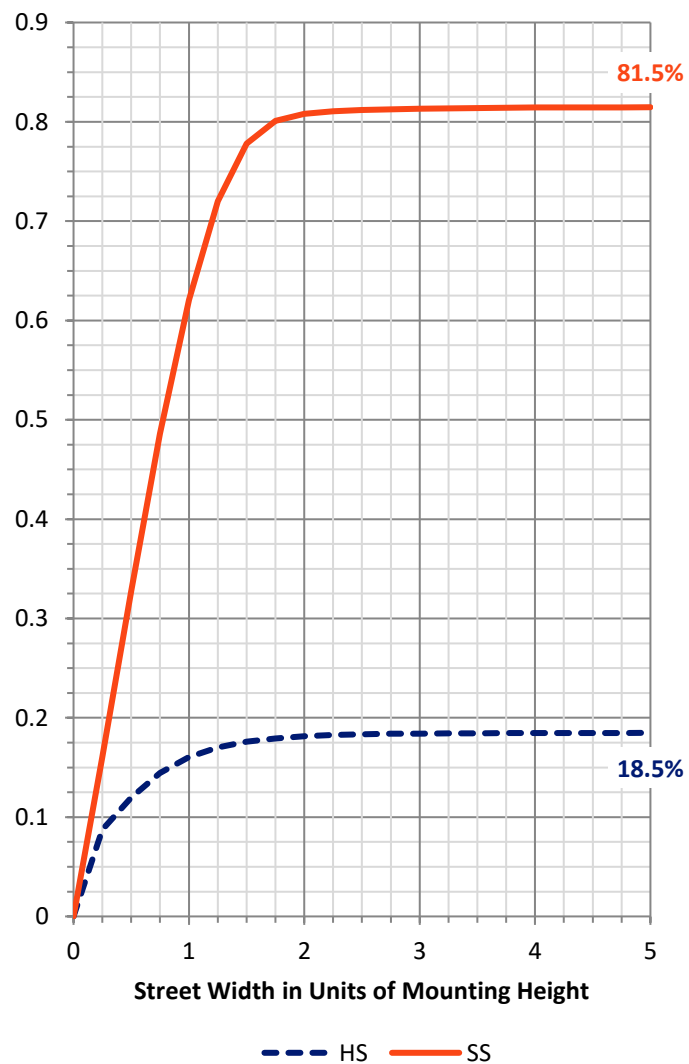
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6413.0   | 0.0    | 6413.0  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 28114.0  | 0.0    | 28114.0 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 34527.0  | 0.0    | 34527.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 791.5   | 2.3       |
| 10°-20°   | 2094.8  | 6.1       |
| 20°-30°   | 3671.8  | 10.6      |
| 30°-40°   | 6054.4  | 17.5      |
| 40°-50°   | 8809.9  | 25.5      |
| 50°-60°   | 9982.6  | 28.9      |
| 60°-70°   | 2854.2  | 8.3       |
| 70°-80°   | 221.6   | 0.6       |
| 80°-90°   | 46.1    | 0.1       |
| 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°    | 34527.0 | 100.0     |
| 0°-180°   | 34527.0 | 100.0     |

**Coefficient of Utilization**



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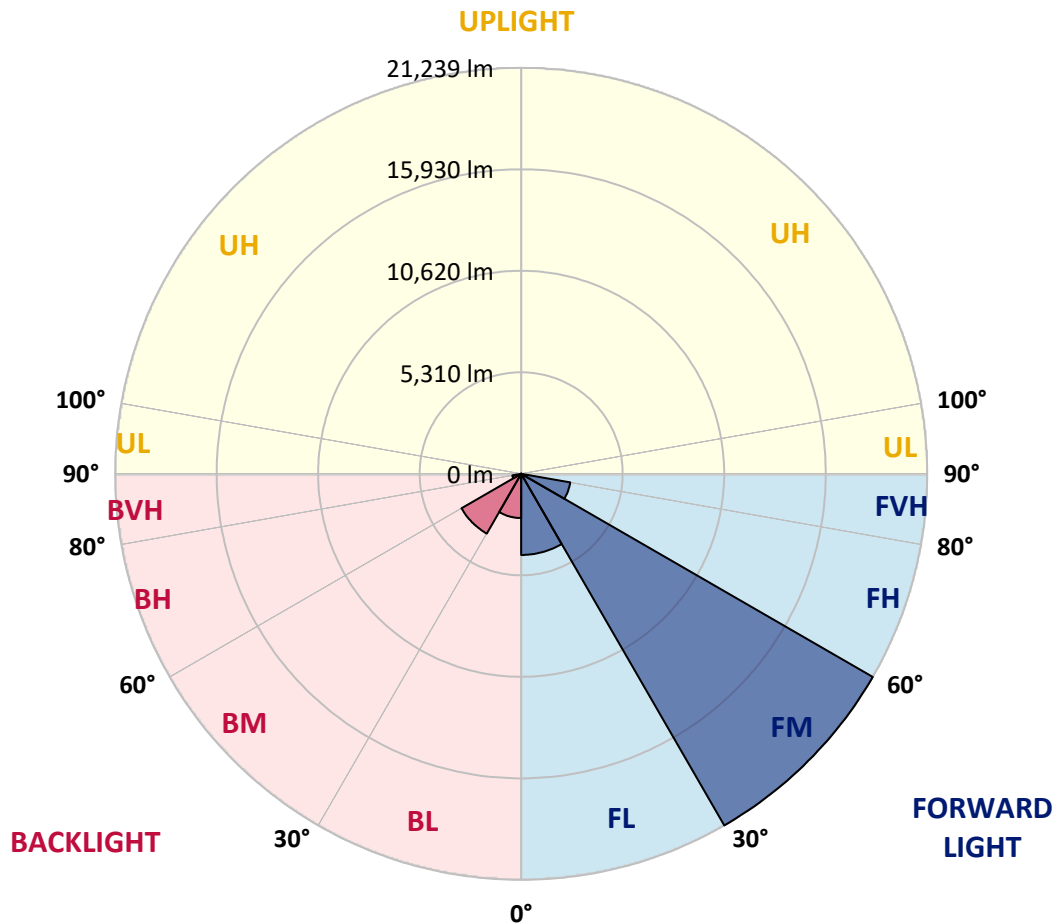
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4244.4  | 12.3      |                         |      |         |
| FM   | (30°-60°)   | 21239.5 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 2607.7  | 7.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 22.4    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2313.8  | 6.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3607.4  | 10.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 468.1   | 1.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 23.6    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 78°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8876.9  | 8876.9  | 8876.9  | 8876.9  | 8876.9  | 8876.9  | 8876.9  | 8876.9  | 8876.9  | 8876.9  | 8876.9  |
| 2.5°  | 8346.0  | 8426.3  | 8438.6  | 8537.4  | 8531.2  | 8697.9  | 8747.3  | 8753.5  | 8864.6  | 8809.0  | 8951.0  |
| 5°    | 8111.4  | 8068.2  | 8049.7  | 8222.6  | 8271.9  | 8420.1  | 8543.6  | 8617.6  | 8846.0  | 8926.3  | 9074.5  |
| 7.5°  | 7901.6  | 7901.6  | 7913.9  | 8068.2  | 8049.7  | 8241.1  | 8370.7  | 8599.1  | 8932.5  | 9000.4  | 9179.4  |
| 10°   | 7697.9  | 7623.8  | 7716.4  | 7876.9  | 8012.7  | 8099.1  | 8370.7  | 8586.8  | 8975.7  | 9173.2  | 9420.1  |
| 12.5° | 7592.9  | 7629.9  | 7642.3  | 7759.6  | 7907.7  | 8167.0  | 8315.2  | 8673.2  | 9284.3  | 9401.6  | 9667.1  |
| 15°   | 8253.4  | 8179.4  | 8000.3  | 7895.4  | 8018.9  | 8142.3  | 8512.7  | 8876.9  | 9444.8  | 9611.5  | 9907.8  |
| 17.5° | 9018.9  | 8957.2  | 8809.0  | 8525.0  | 8247.3  | 8475.7  | 8765.8  | 9099.1  | 9617.7  | 9864.6  | 10302.9 |
| 20°   | 10018.9 | 9920.2  | 9772.0  | 9216.4  | 8975.7  | 8728.8  | 9037.4  | 9432.5  | 9901.6  | 10123.9 | 10574.5 |
| 22.5° | 11210.3 | 11210.3 | 10877.0 | 10204.1 | 9704.1  | 9469.5  | 9599.2  | 9827.6  | 10216.5 | 10519.0 | 10963.4 |
| 25°   | 12451.1 | 12414.1 | 12111.6 | 11414.1 | 10568.3 | 10290.6 | 10438.7 | 10599.2 | 10704.1 | 10870.8 | 11167.1 |
| 27.5° | 13870.9 | 13654.9 | 13272.2 | 12500.5 | 11753.6 | 11216.5 | 11377.0 | 11235.0 | 11105.4 | 11191.8 | 11617.8 |
| 30°   | 14833.9 | 14969.8 | 14482.1 | 13741.3 | 13037.6 | 12438.8 | 12469.7 | 12346.2 | 11753.6 | 11877.0 | 12130.1 |
| 32.5° | 15834.0 | 15920.4 | 15648.8 | 15241.4 | 14537.6 | 13840.1 | 13587.0 | 13482.0 | 13037.6 | 13093.1 | 12846.2 |
| 35°   | 16667.4 | 16834.0 | 16593.3 | 16414.3 | 16210.5 | 15648.8 | 14951.2 | 15290.8 | 14574.7 | 14438.9 | 13796.9 |
| 37.5° | 17432.8 | 17383.4 | 17667.4 | 17482.2 | 17439.0 | 17043.9 | 16278.5 | 16346.4 | 15864.9 | 15834.0 | 15093.2 |
| 40°   | 18118.0 | 18130.4 | 18519.3 | 18605.7 | 18432.9 | 17729.1 | 16618.0 | 17155.0 | 17543.9 | 17581.0 | 16630.3 |
| 42.5° | 18686.0 | 18852.6 | 19186.0 | 19883.5 | 19624.3 | 18451.4 | 16969.8 | 17556.3 | 19000.8 | 19229.2 | 18087.2 |
| 45°   | 19179.8 | 19519.3 | 19932.9 | 20556.4 | 20408.3 | 19476.1 | 17846.4 | 18383.5 | 20556.4 | 21155.2 | 19457.6 |
| 47.5° | 19210.7 | 19655.1 | 20105.8 | 21031.7 | 21216.9 | 20025.5 | 18753.9 | 19692.2 | 21791.0 | 22439.2 | 20457.6 |
| 50°   | 19087.2 | 19321.8 | 20223.1 | 21229.3 | 21649.0 | 20920.6 | 20025.5 | 20791.0 | 22988.6 | 23396.0 | 20963.8 |
| 52.5° | 17624.2 | 17803.2 | 19611.9 | 21414.5 | 22426.9 | 21933.0 | 21710.8 | 22321.9 | 24210.9 | 24513.4 | 21439.2 |
| 55°   | 14692.0 | 14661.1 | 17148.9 | 20482.3 | 22784.9 | 23433.1 | 23297.3 | 23513.3 | 25624.5 | 25896.1 | 21556.5 |
| 57.5° | 10049.8 | 10611.6 | 12759.8 | 17056.3 | 20593.4 | 23081.2 | 23223.2 | 22865.1 | 23976.3 | 24081.2 | 18790.9 |
| 60°   | 5420.0  | 5654.6  | 7383.0  | 11383.2 | 15679.7 | 18809.4 | 19179.8 | 18531.6 | 18445.2 | 18148.9 | 13414.1 |
| 62.5° | 2154.4  | 2271.7  | 3253.2  | 5636.0  | 8543.6  | 11432.6 | 12228.9 | 11963.5 | 11395.5 | 10617.7 | 6944.7  |
| 65°   | 1024.7  | 1098.8  | 1617.4  | 2635.9  | 3790.3  | 4765.6  | 5562.0  | 5808.9  | 4284.1  | 3858.2  | 2290.2  |
| 67.5° | 697.6   | 753.1   | 1179.1  | 1506.2  | 1351.9  | 1413.6  | 1839.6  | 1709.9  | 1006.2  | 858.1   | 635.8   |
| 70°   | 530.9   | 567.9   | 944.5   | 1024.7  | 605.0   | 425.9   | 475.3   | 444.5   | 413.6   | 419.8   | 413.6   |
| 72.5° | 376.6   | 407.4   | 691.4   | 605.0   | 265.4   | 197.5   | 253.1   | 302.5   | 302.5   | 302.5   | 296.3   |
| 75°   | 228.4   | 259.3   | 401.3   | 234.6   | 104.9   | 104.9   | 160.5   | 203.7   | 216.1   | 222.2   | 209.9   |
| 77.5° | 117.3   | 148.2   | 135.8   | 67.9    | 67.9    | 80.3    | 117.3   | 142.0   | 154.3   | 154.3   | 148.2   |
| 80°   | 24.7    | 24.7    | 24.7    | 37.0    | 67.9    | 86.4    | 117.3   | 129.6   | 148.2   | 148.2   | 135.8   |
| 82.5° | 0.0     | 6.2     | 18.5    | 37.0    | 61.7    | 80.3    | 111.1   | 129.6   | 148.2   | 154.3   | 142.0   |
| 85°   | 0.0     | 6.2     | 12.3    | 24.7    | 43.2    | 49.4    | 43.2    | 37.0    | 37.0    | 37.0    | 37.0    |
| 87.5° | 0.0     | 0.0     | 6.2     | 6.2     | 6.2     | 12.3    | 12.3    | 12.3    | 12.3    | 12.3    | 12.3    |
| 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°    | 8876.9  | 8876.9  | 8876.9 | 8876.9 | 8876.9 | 8876.9 | 8876.9 | 8876.9 | 8876.9 | 8876.9 | 8876.9 |
| 2.5°  | 8963.3  | 8981.9  | 8951.0 | 8944.8 | 8920.1 | 8994.2 | 8815.2 | 8772.0 | 8883.1 | 8778.1 | 8802.8 |
| 5°    | 9080.6  | 9123.8  | 9068.3 | 8975.7 | 8839.9 | 8630.0 | 8451.0 | 8216.4 | 8105.3 | 8025.0 | 8012.7 |
| 7.5°  | 9167.0  | 9197.9  | 9142.4 | 8846.0 | 8438.6 | 7907.7 | 7512.7 | 7222.5 | 6994.1 | 6926.2 | 6815.1 |
| 10°   | 9518.9  | 9525.1  | 9247.3 | 8592.9 | 7796.6 | 7099.1 | 6494.1 | 6049.6 | 5821.2 | 5679.2 | 5617.5 |
| 12.5° | 9753.5  | 9741.1  | 9179.4 | 8092.9 | 7031.2 | 6105.2 | 5413.8 | 4876.7 | 4666.9 | 4599.0 | 4555.7 |
| 15°   | 10049.8 | 9981.9  | 9018.9 | 7580.6 | 6043.5 | 5043.4 | 4419.9 | 4049.6 | 4031.0 | 3987.8 | 4031.0 |
| 17.5° | 10284.4 | 10093.0 | 8784.3 | 6648.4 | 5099.0 | 4154.5 | 3747.1 | 3771.8 | 3821.1 | 3864.4 | 3870.5 |
| 20°   | 10667.1 | 10272.0 | 8247.3 | 5833.6 | 4222.4 | 3561.9 | 3555.7 | 3666.8 | 3790.3 | 3839.7 | 3889.1 |
| 22.5° | 10957.2 | 10346.1 | 7673.2 | 4963.2 | 3506.3 | 3321.1 | 3426.1 | 3592.7 | 3685.3 | 3734.7 | 3808.8 |
| 25°   | 11062.2 | 10142.4 | 6907.7 | 4092.8 | 3160.6 | 3210.0 | 3370.5 | 3481.6 | 3598.9 | 3654.5 | 3623.6 |
| 27.5° | 11167.1 | 10037.5 | 5994.1 | 3370.5 | 2975.4 | 3135.9 | 3271.7 | 3382.9 | 3419.9 | 3494.0 | 3543.4 |
| 30°   | 11420.2 | 9673.2  | 5173.1 | 2913.7 | 2882.8 | 3086.5 | 3185.3 | 3222.4 | 3321.1 | 3364.3 | 3364.3 |
| 32.5° | 11623.9 | 9531.3  | 4302.6 | 2697.6 | 2870.5 | 3111.2 | 3123.6 | 3123.6 | 3135.9 | 3105.1 | 3092.7 |
| 35°   | 12043.7 | 9043.6  | 3524.8 | 2568.0 | 2864.3 | 3117.4 | 3148.3 | 3043.3 | 2759.4 | 2648.3 | 2617.4 |
| 37.5° | 12562.3 | 8728.8  | 2950.7 | 2537.1 | 2907.5 | 3191.5 | 3240.9 | 2845.8 | 2475.4 | 2296.4 | 2265.5 |
| 40°   | 13191.9 | 8506.5  | 2574.2 | 2524.8 | 3006.3 | 3364.3 | 3216.2 | 2691.5 | 2210.0 | 1950.7 | 1938.4 |
| 42.5° | 13926.5 | 8302.8  | 2321.1 | 2518.6 | 3129.8 | 3543.4 | 3191.5 | 2561.8 | 1938.4 | 1765.5 | 1790.2 |
| 45°   | 14512.9 | 8191.7  | 2148.2 | 2475.4 | 3173.0 | 3648.3 | 3210.0 | 2333.4 | 1827.2 | 1716.1 | 1728.5 |
| 47.5° | 14969.8 | 7957.1  | 2006.3 | 2401.3 | 3166.8 | 3685.3 | 3043.3 | 2240.8 | 1771.7 | 1802.5 | 1833.4 |
| 50°   | 14982.1 | 7642.3  | 1827.2 | 2240.8 | 3074.2 | 3617.4 | 2852.0 | 2154.4 | 1759.3 | 1889.0 | 1950.7 |
| 52.5° | 14815.4 | 7197.8  | 1635.9 | 2012.4 | 2858.1 | 3382.9 | 2679.1 | 2117.4 | 1703.8 | 1691.4 | 1765.5 |
| 55°   | 14222.8 | 6364.5  | 1314.9 | 1629.7 | 2413.7 | 2790.2 | 2524.8 | 2049.5 | 1537.1 | 1395.1 | 1407.5 |
| 57.5° | 11494.3 | 4561.9  | 969.2  | 1166.7 | 1709.9 | 2043.3 | 2277.9 | 2018.6 | 1382.8 | 1185.2 | 1191.4 |
| 60°   | 7117.6  | 2586.5  | 709.9  | 796.3  | 1055.6 | 1240.8 | 1845.8 | 1876.6 | 1234.6 | 1000.0 | 987.7  |
| 62.5° | 3654.5  | 1277.8  | 549.4  | 561.8  | 648.2  | 728.4  | 1265.5 | 1574.1 | 1117.3 | 950.7  | 950.7  |
| 65°   | 1222.3  | 629.7   | 481.5  | 432.1  | 432.1  | 450.6  | 765.5  | 1092.6 | 944.5  | 796.3  | 796.3  |
| 67.5° | 524.7   | 469.2   | 419.8  | 376.6  | 345.7  | 327.2  | 432.1  | 635.8  | 703.7  | 605.0  | 580.3  |
| 70°   | 407.4   | 395.1   | 364.2  | 314.8  | 271.6  | 246.9  | 253.1  | 327.2  | 401.3  | 388.9  | 376.6  |
| 72.5° | 302.5   | 302.5   | 290.1  | 246.9  | 209.9  | 179.0  | 166.7  | 172.8  | 191.4  | 197.5  | 203.7  |
| 75°   | 209.9   | 216.1   | 216.1  | 191.4  | 154.3  | 129.6  | 111.1  | 92.6   | 74.1   | 61.7   | 55.6   |
| 77.5° | 142.0   | 148.2   | 160.5  | 142.0  | 117.3  | 86.4   | 67.9   | 49.4   | 30.9   | 12.3   | 12.3   |
| 80°   | 123.5   | 142.0   | 154.3  | 142.0  | 123.5  | 92.6   | 67.9   | 37.0   | 18.5   | 0.0    | 0.0    |
| 82.5° | 129.6   | 142.0   | 160.5  | 135.8  | 117.3  | 86.4   | 67.9   | 43.2   | 18.5   | 6.2    | 0.0    |
| 85°   | 30.9    | 30.9    | 37.0   | 43.2   | 55.6   | 61.7   | 49.4   | 30.9   | 18.5   | 6.2    | 0.0    |
| 87.5° | 12.3    | 12.3    | 12.3   | 12.3   | 12.3   | 6.2    | 6.2    | 6.2    | 6.2    | 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)