

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: P455632

Luminaire Tested: **GLAN-SA6D-750-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455632  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6D-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36727 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

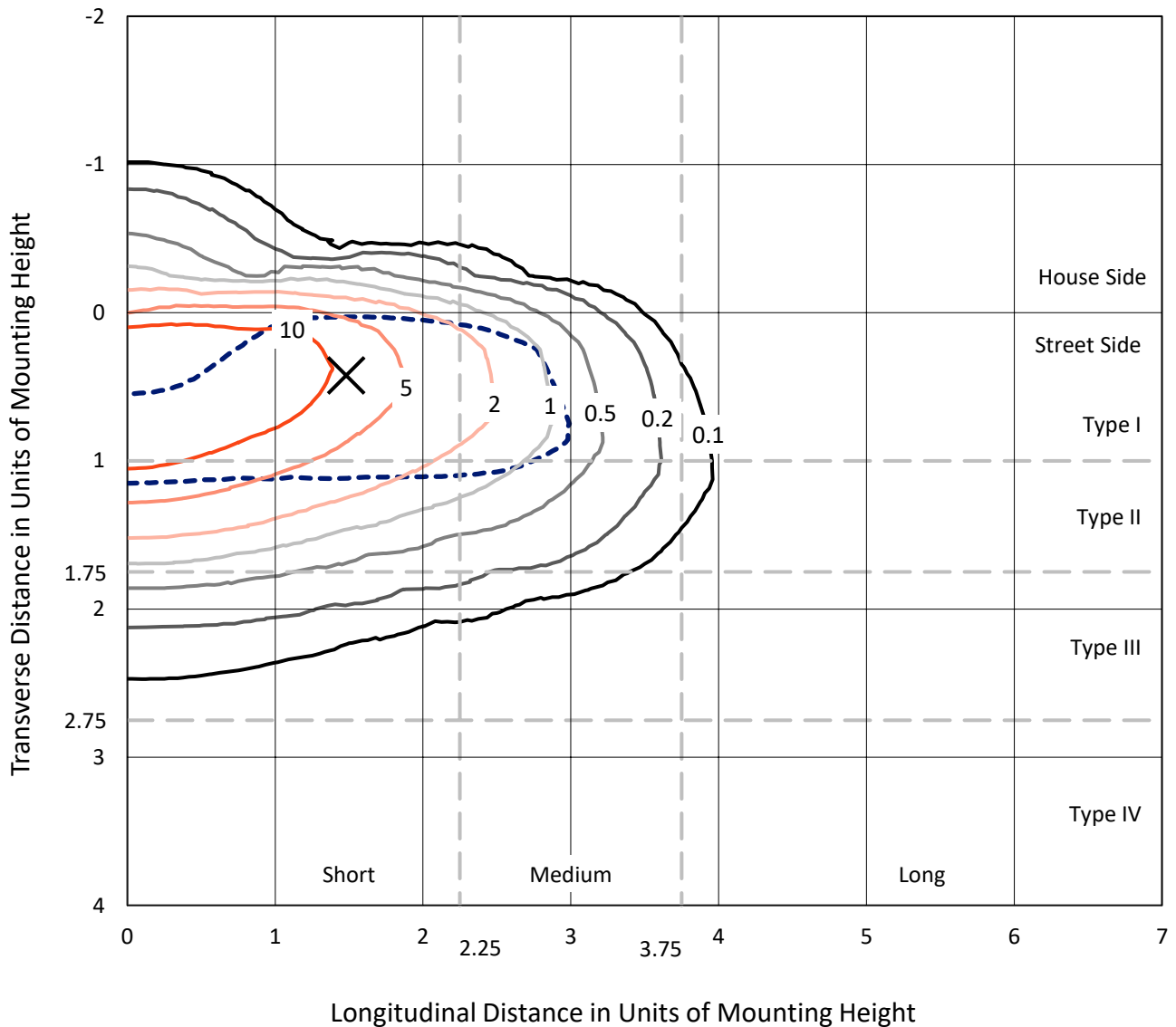
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

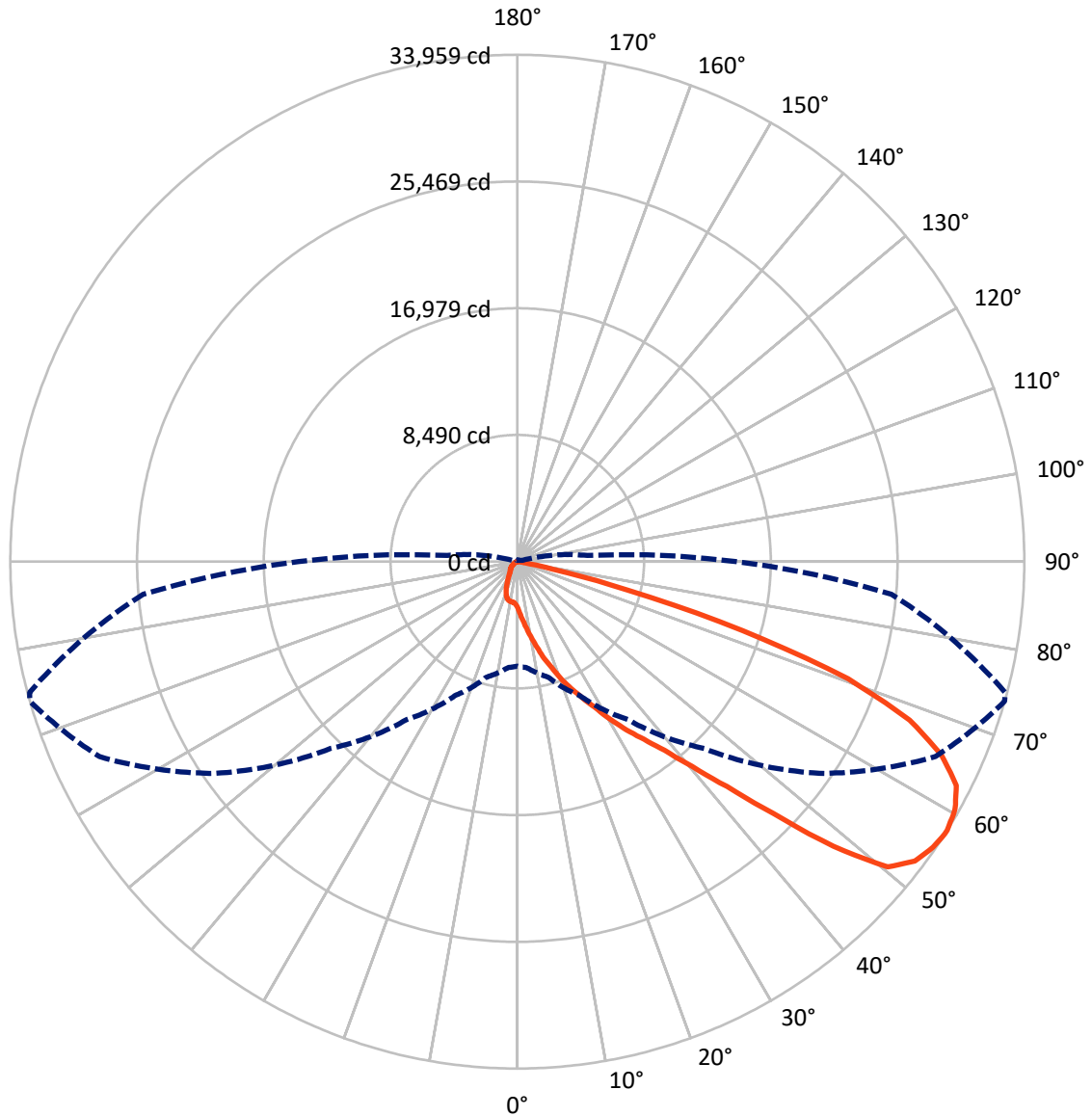
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P455632  
CATALOG NUMBER: GLAN-SA6D-750-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P455632

CATALOG NUMBER: GLAN-SA6D-750-U-T2R-HSS

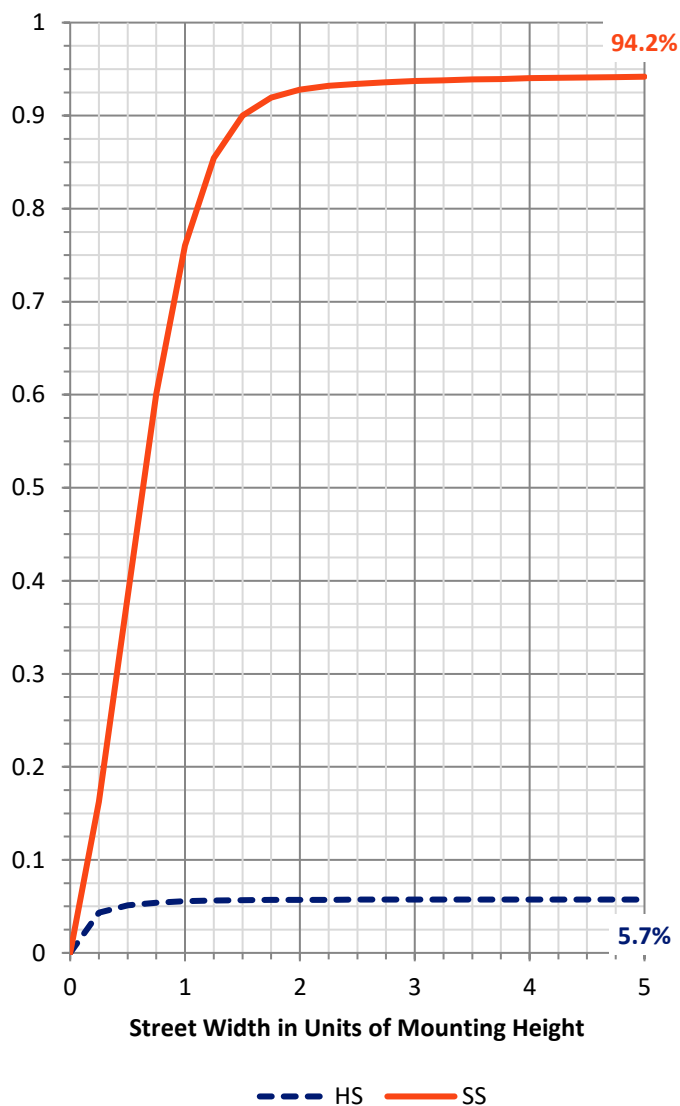
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2118.3   | 0.0    | 2118.3  |
|                    | % Fixture | 5.8      | 0.0    | 5.8     |
| <b>Street Side</b> | Lumens    | 34608.7  | 0.0    | 34608.7 |
|                    | % Fixture | 94.2     | 0.0    | 94.2    |
| <b>Total</b>       | Lumens    | 36727.0  | 0.0    | 36727.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 371.3   | 1.0       |
| 10°-20°   | 1463.4  | 4.0       |
| 20°-30°   | 3131.2  | 8.5       |
| 30°-40°   | 5755.2  | 15.7      |
| 40°-50°   | 8822.8  | 24.0      |
| 50°-60°   | 9333.3  | 25.4      |
| 60°-70°   | 6094.9  | 16.6      |
| 70°-80°   | 1665.3  | 4.5       |
| 80°-90°   | 89.7    | 0.2       |
| 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°    | 36727.0 | 100.0     |
| 0°-180°   | 36727.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P455632

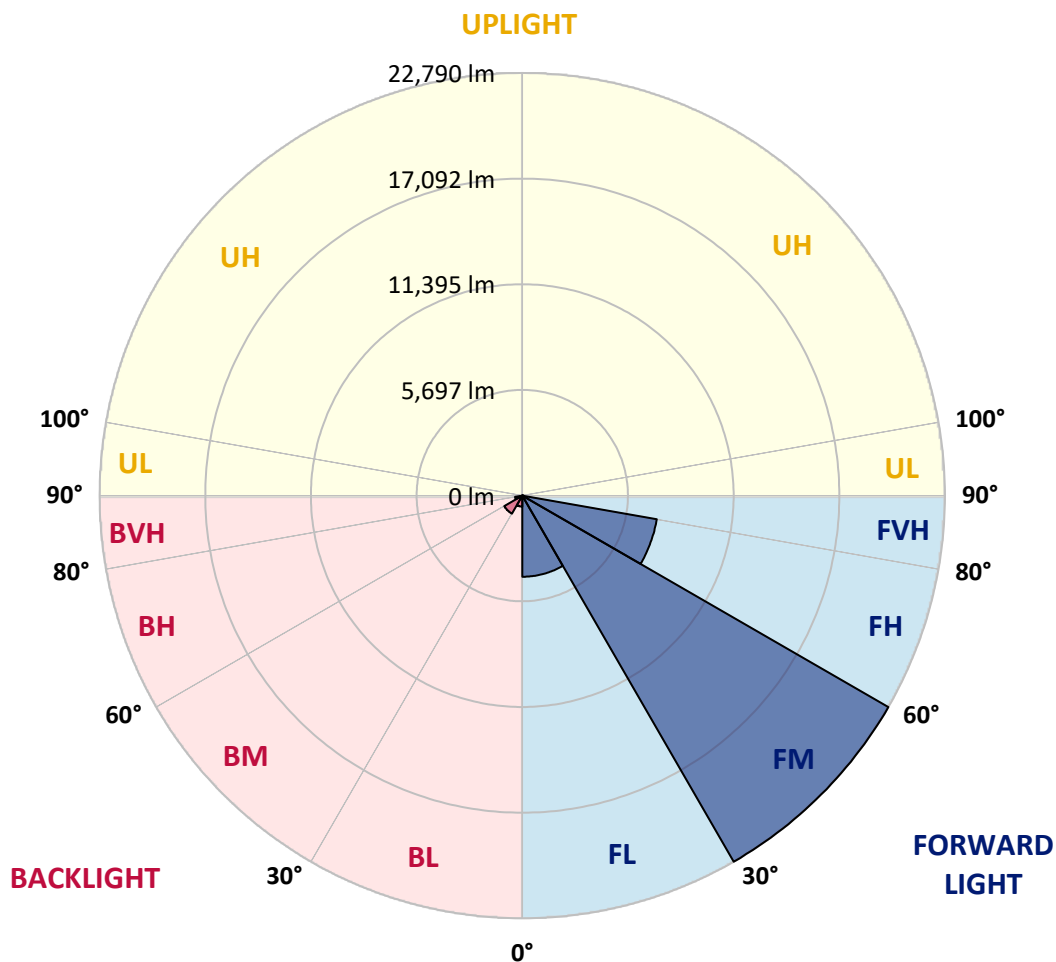
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4374.1  | 11.9      |                         |      |         |
| FM (30°-60°)   | 22789.8 | 62.1      |                         |      |         |
| FH (60°-80°)   | 7362.5  | 20.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 82.3    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 591.7   | 1.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1121.5  | 3.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 397.7   | 1.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 7.4     | 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-G3**

Type II Short





REPORT NUMBER: P455632

CATALOG NUMBER: GLAN-SA6D-750-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3075.8  | 3075.8  | 3075.8  | 3075.8  | 3075.8  | 3075.8  | 3075.8  | 3075.8  | 3075.8  | 3075.8  | 3075.8  |
| 2.5°  | 4500.9  | 4460.3  | 4379.2  | 4351.3  | 4232.1  | 4047.0  | 3884.7  | 3666.7  | 3494.2  | 3476.5  | 3268.6  |
| 5°    | 6027.4  | 5936.1  | 5898.1  | 5715.5  | 5429.0  | 5160.2  | 4698.7  | 4348.8  | 3945.6  | 3915.2  | 3496.8  |
| 7.5°  | 7498.1  | 7371.4  | 7333.3  | 7160.9  | 6826.2  | 6402.7  | 5804.3  | 5167.8  | 4528.8  | 4470.5  | 3803.6  |
| 10°   | 8563.2  | 8580.9  | 8512.4  | 8398.3  | 8127.0  | 7695.9  | 6958.0  | 6088.3  | 5178.0  | 5104.4  | 4148.5  |
| 12.5° | 9326.4  | 9323.9  | 9336.6  | 9334.0  | 9189.5  | 8862.4  | 8086.4  | 7084.8  | 5893.0  | 5748.5  | 4544.0  |
| 15°   | 9823.4  | 9831.0  | 9869.1  | 10000.9 | 10016.1 | 9813.3  | 9166.7  | 8038.3  | 6722.2  | 6542.2  | 4972.6  |
| 17.5° | 10325.5 | 10378.7 | 10439.6 | 10563.8 | 10675.4 | 10594.3 | 10137.8 | 9032.3  | 7472.8  | 7338.4  | 5431.5  |
| 20°   | 11154.7 | 11228.2 | 11192.7 | 11268.8 | 11327.1 | 11334.7 | 10982.2 | 9950.2  | 8383.1  | 8157.4  | 5956.4  |
| 22.5° | 12480.9 | 12478.3 | 12387.0 | 12250.1 | 12136.0 | 12130.9 | 11811.4 | 10893.5 | 9209.8  | 8991.7  | 6483.9  |
| 25°   | 14157.0 | 14164.6 | 13987.1 | 13596.6 | 13312.6 | 12965.2 | 12597.5 | 11720.1 | 10094.7 | 9825.9  | 7039.2  |
| 27.5° | 16079.1 | 16030.9 | 15762.1 | 15224.5 | 14661.6 | 14068.2 | 13538.3 | 12681.2 | 11033.0 | 10809.8 | 7675.6  |
| 30°   | 17805.9 | 17788.1 | 17473.7 | 16817.0 | 16076.5 | 15480.6 | 14712.3 | 13885.6 | 12247.6 | 11973.7 | 8388.2  |
| 32.5° | 19413.5 | 19438.9 | 19002.7 | 18323.2 | 17608.1 | 16920.9 | 16109.5 | 15036.9 | 13439.4 | 13051.4 | 9164.1  |
| 35°   | 20668.7 | 20694.1 | 20242.7 | 19677.3 | 18941.9 | 18371.4 | 17598.0 | 16264.2 | 14615.9 | 14288.8 | 10056.7 |
| 37.5° | 21338.2 | 21371.1 | 21109.9 | 20683.9 | 20225.0 | 19938.4 | 19218.3 | 17843.9 | 16046.1 | 15848.3 | 11111.6 |
| 40°   | 21464.9 | 21503.0 | 21388.9 | 21274.8 | 21249.4 | 21454.8 | 21244.3 | 19705.1 | 18029.0 | 17719.7 | 12683.7 |
| 42.5° | 21084.6 | 21135.3 | 21186.0 | 21439.6 | 21956.9 | 22710.0 | 23442.8 | 22230.7 | 20582.5 | 20166.6 | 14605.8 |
| 45°   | 20085.5 | 20080.4 | 20280.8 | 20937.5 | 22096.3 | 23704.0 | 25740.2 | 25392.8 | 24061.5 | 23567.1 | 17321.6 |
| 47.5° | 18376.4 | 18351.1 | 18784.7 | 19720.4 | 21525.8 | 23886.6 | 27614.1 | 29231.9 | 28501.6 | 28045.2 | 20240.2 |
| 50°   | 15772.2 | 15896.5 | 16578.6 | 17884.5 | 20108.3 | 23333.8 | 28192.2 | 31749.9 | 32145.4 | 31661.1 | 22598.4 |
| 52.5° | 12721.7 | 12716.7 | 13786.8 | 15559.2 | 18008.7 | 22116.6 | 27789.0 | 32206.3 | 33329.6 | 32959.4 | 23759.8 |
| 55°   | 9415.2  | 9481.1  | 10594.3 | 12382.0 | 15282.8 | 19895.3 | 26473.0 | 31737.2 | 33781.0 | 33519.8 | 24525.6 |
| 57°   | 7003.7  | 7120.3  | 8012.9  | 9904.6  | 12909.4 | 17696.8 | 24720.8 | 30897.8 | 33958.5 | 33816.5 | 25162.0 |
| 57.5° | 6537.1  | 6542.2  | 7411.9  | 9131.2  | 12214.6 | 16852.5 | 24218.7 | 30547.9 | 33953.4 | 33874.8 | 25266.0 |
| 60°   | 4024.2  | 4151.0  | 4752.0  | 6172.0  | 8941.0  | 13152.8 | 20853.8 | 28537.1 | 33689.7 | 33803.8 | 25709.7 |
| 62.5° | 2408.9  | 2462.2  | 2852.7  | 3719.9  | 5763.7  | 9600.3  | 17065.5 | 25963.3 | 33002.5 | 33349.9 | 25679.3 |
| 65°   | 1549.3  | 1562.0  | 1739.5  | 2251.7  | 3603.3  | 6488.9  | 13150.3 | 22562.9 | 31225.0 | 31864.0 | 24675.2 |
| 67.5° | 1196.9  | 1217.1  | 1288.1  | 1478.3  | 2089.4  | 4042.0  | 9301.1  | 18934.3 | 28349.4 | 29173.6 | 22240.9 |
| 70°   | 1062.5  | 1072.6  | 1098.0  | 1158.8  | 1382.0  | 2282.2  | 5786.5  | 14790.9 | 23508.7 | 23742.0 | 17405.2 |
| 72.5° | 867.2   | 895.1   | 973.7   | 994.0   | 1095.4  | 1425.1  | 3220.4  | 9927.4  | 15795.1 | 15853.4 | 9737.2  |
| 75°   | 672.0   | 677.0   | 793.7   | 852.0   | 923.0   | 981.3   | 1437.8  | 5005.5  | 7586.9  | 7181.2  | 3752.9  |
| 77.5° | 502.1   | 524.9   | 578.1   | 651.7   | 753.1   | 702.4   | 644.1   | 1886.6  | 2355.7  | 2312.6  | 1090.4  |
| 80°   | 322.0   | 334.7   | 403.2   | 489.4   | 585.8   | 459.0   | 362.6   | 552.8   | 517.3   | 532.5   | 261.2   |
| 82.5° | 162.3   | 164.8   | 258.6   | 398.1   | 372.8   | 230.8   | 228.2   | 225.7   | 192.7   | 190.2   | 121.7   |
| 85°   | 17.8    | 38.0    | 167.4   | 228.2   | 167.4   | 76.1    | 106.5   | 104.0   | 101.4   | 104.0   | 71.0    |
| 87.5° | 2.5     | 2.5     | 27.9    | 33.0    | 22.8    | 25.4    | 30.4    | 33.0    | 40.6    | 38.0    | 30.4    |
| 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°    | 3075.8  | 3075.8 | 3075.8 | 3075.8 | 3075.8 | 3075.8 | 3075.8 | 3075.8 | 3075.8 | 3075.8 | 3075.8 |
| 2.5°  | 3167.1  | 3065.7 | 2878.1 | 2698.0 | 2563.6 | 2477.4 | 2365.8 | 2325.3 | 2266.9 | 2259.3 | 2231.4 |
| 5°    | 3304.1  | 3111.3 | 2784.2 | 2525.6 | 2317.7 | 2160.4 | 2023.5 | 1909.4 | 1818.1 | 1797.8 | 1808.0 |
| 7.5°  | 3499.3  | 3212.8 | 2756.3 | 2403.9 | 2114.8 | 1846.0 | 1627.9 | 1493.5 | 1397.2 | 1361.7 | 1366.8 |
| 10°   | 3719.9  | 3347.2 | 2751.3 | 2274.5 | 1833.3 | 1503.7 | 1265.3 | 1146.1 | 1090.4 | 1070.1 | 1047.3 |
| 12.5° | 3981.1  | 3501.8 | 2738.6 | 2074.2 | 1524.0 | 1199.4 | 1029.5 | 958.5  | 905.3  | 890.0  | 890.0  |
| 15°   | 4275.2  | 3666.7 | 2677.7 | 1825.7 | 1237.4 | 991.5  | 877.4  | 821.6  | 803.8  | 788.6  | 788.6  |
| 17.5° | 4582.1  | 3828.9 | 2550.9 | 1518.9 | 1027.0 | 849.5  | 778.5  | 745.5  | 720.1  | 702.4  | 702.4  |
| 20°   | 4932.0  | 3988.7 | 2348.1 | 1247.6 | 867.2  | 758.2  | 702.4  | 664.4  | 644.1  | 628.9  | 623.8  |
| 22.5° | 5264.2  | 4118.0 | 2089.4 | 1024.4 | 755.6  | 682.1  | 631.4  | 590.8  | 570.5  | 562.9  | 562.9  |
| 25°   | 5609.0  | 4196.6 | 1777.5 | 846.9  | 689.7  | 618.7  | 562.9  | 530.0  | 512.2  | 507.1  | 504.6  |
| 27.5° | 5943.7  | 4242.3 | 1503.7 | 740.4  | 628.9  | 560.4  | 507.1  | 481.8  | 464.0  | 459.0  | 461.5  |
| 30°   | 6349.5  | 4249.9 | 1237.4 | 664.4  | 575.6  | 504.6  | 456.4  | 433.6  | 423.5  | 418.4  | 415.9  |
| 32.5° | 6760.3  | 4239.7 | 1039.6 | 618.7  | 524.9  | 456.4  | 415.9  | 398.1  | 390.5  | 382.9  | 382.9  |
| 35°   | 7221.8  | 4186.5 | 885.0  | 573.1  | 476.7  | 415.9  | 380.4  | 365.1  | 355.0  | 347.4  | 344.9  |
| 37.5° | 7794.8  | 4158.6 | 796.2  | 522.4  | 433.6  | 377.8  | 344.9  | 329.6  | 322.0  | 311.9  | 309.4  |
| 40°   | 8697.5  | 4282.8 | 768.3  | 476.7  | 390.5  | 342.3  | 311.9  | 294.1  | 284.0  | 273.9  | 271.3  |
| 42.5° | 9823.4  | 4500.9 | 722.7  | 431.1  | 352.5  | 309.4  | 278.9  | 258.6  | 240.9  | 228.2  | 223.1  |
| 45°   | 11281.5 | 4787.5 | 651.7  | 382.9  | 319.5  | 273.9  | 246.0  | 220.6  | 197.8  | 187.6  | 185.1  |
| 47.5° | 12810.5 | 5063.8 | 588.3  | 344.9  | 284.0  | 243.4  | 213.0  | 185.1  | 164.8  | 157.2  | 154.7  |
| 50°   | 13748.7 | 5119.6 | 547.7  | 301.8  | 248.5  | 210.5  | 180.0  | 154.7  | 142.0  | 134.4  | 134.4  |
| 52.5° | 14177.3 | 5030.9 | 491.9  | 263.7  | 215.5  | 185.1  | 154.7  | 134.4  | 126.8  | 121.7  | 119.2  |
| 55°   | 14476.5 | 4894.0 | 418.4  | 228.2  | 185.1  | 157.2  | 136.9  | 121.7  | 111.6  | 106.5  | 104.0  |
| 57°   | 14651.4 | 4708.8 | 362.6  | 200.3  | 159.8  | 136.9  | 121.7  | 109.0  | 98.9   | 88.8   | 88.8   |
| 57.5° | 14659.0 | 4637.8 | 347.4  | 197.8  | 152.1  | 131.9  | 119.2  | 106.5  | 93.8   | 83.7   | 81.1   |
| 60°   | 14433.4 | 4151.0 | 278.9  | 167.4  | 121.7  | 111.6  | 98.9   | 83.7   | 65.9   | 55.8   | 53.3   |
| 62.5° | 13708.1 | 3532.3 | 230.8  | 142.0  | 98.9   | 86.2   | 71.0   | 63.4   | 45.6   | 33.0   | 33.0   |
| 65°   | 12610.2 | 2865.4 | 197.8  | 114.1  | 81.1   | 63.4   | 48.2   | 45.6   | 27.9   | 15.2   | 12.7   |
| 67.5° | 11022.8 | 2231.4 | 167.4  | 93.8   | 68.5   | 45.6   | 33.0   | 30.4   | 15.2   | 5.1    | 0.0    |
| 70°   | 8398.3  | 1521.4 | 139.5  | 76.1   | 50.7   | 33.0   | 22.8   | 17.8   | 10.1   | 2.5    | 0.0    |
| 72.5° | 4840.7  | 836.8  | 116.6  | 58.3   | 38.0   | 25.4   | 17.8   | 10.1   | 10.1   | 0.0    | 0.0    |
| 75°   | 1729.4  | 360.1  | 88.8   | 43.1   | 30.4   | 20.3   | 12.7   | 5.1    | 7.6    | 2.5    | 0.0    |
| 77.5° | 550.3   | 192.7  | 58.3   | 33.0   | 25.4   | 15.2   | 10.1   | 5.1    | 5.1    | 2.5    | 0.0    |
| 80°   | 162.3   | 101.4  | 35.5   | 27.9   | 17.8   | 12.7   | 7.6    | 2.5    | 5.1    | 2.5    | 0.0    |
| 82.5° | 88.8    | 50.7   | 27.9   | 20.3   | 17.8   | 10.1   | 7.6    | 2.5    | 2.5    | 2.5    | 0.0    |
| 85°   | 45.6    | 30.4   | 22.8   | 20.3   | 17.8   | 10.1   | 7.6    | 2.5    | 0.0    | 2.5    | 2.5    |
| 87.5° | 25.4    | 22.8   | 22.8   | 20.3   | 17.8   | 12.7   | 7.6    | 2.5    | 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)