

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: P458429

Luminaire Tested: **GLAN-SA9D-760-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-760-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57459 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

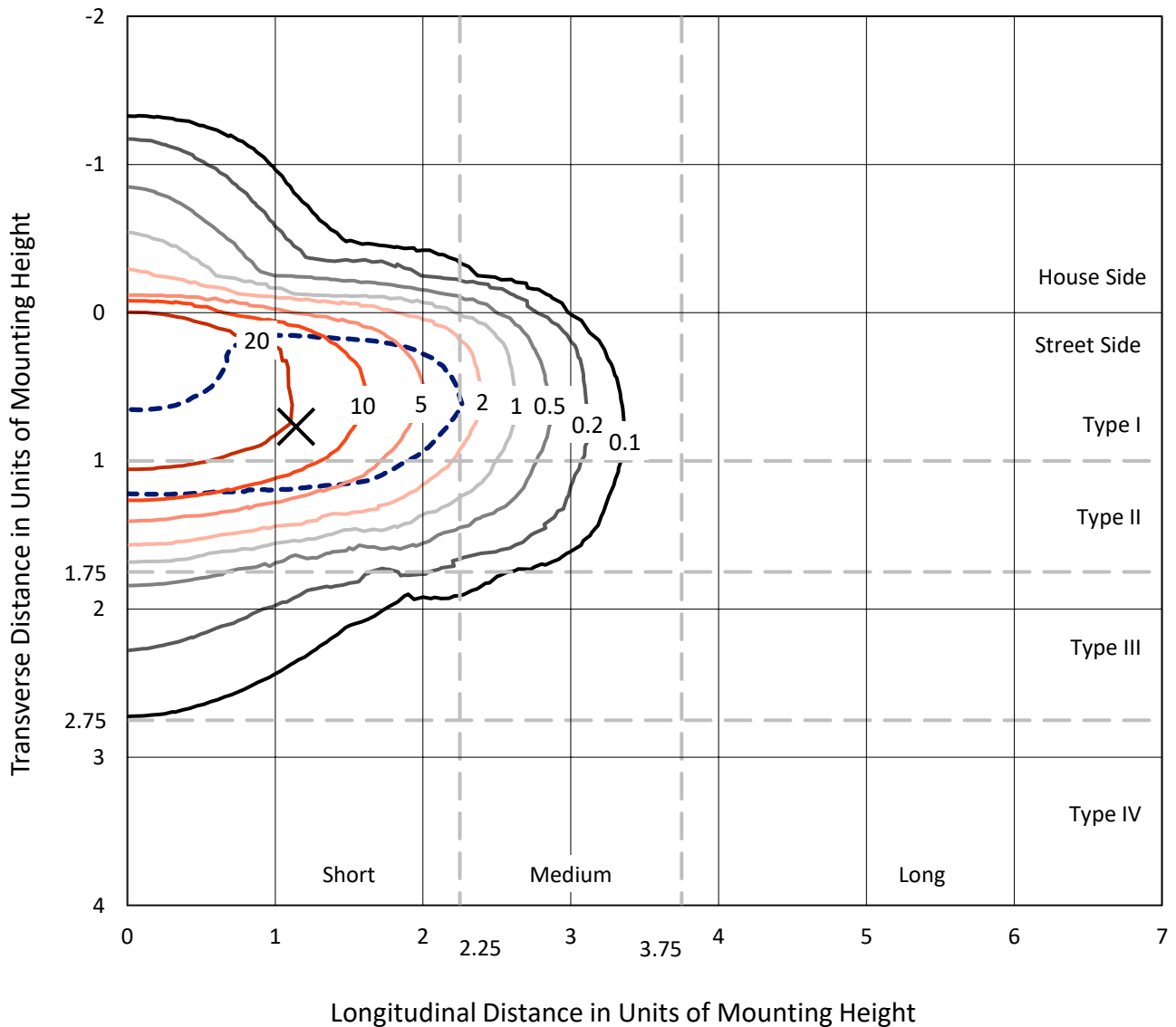
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

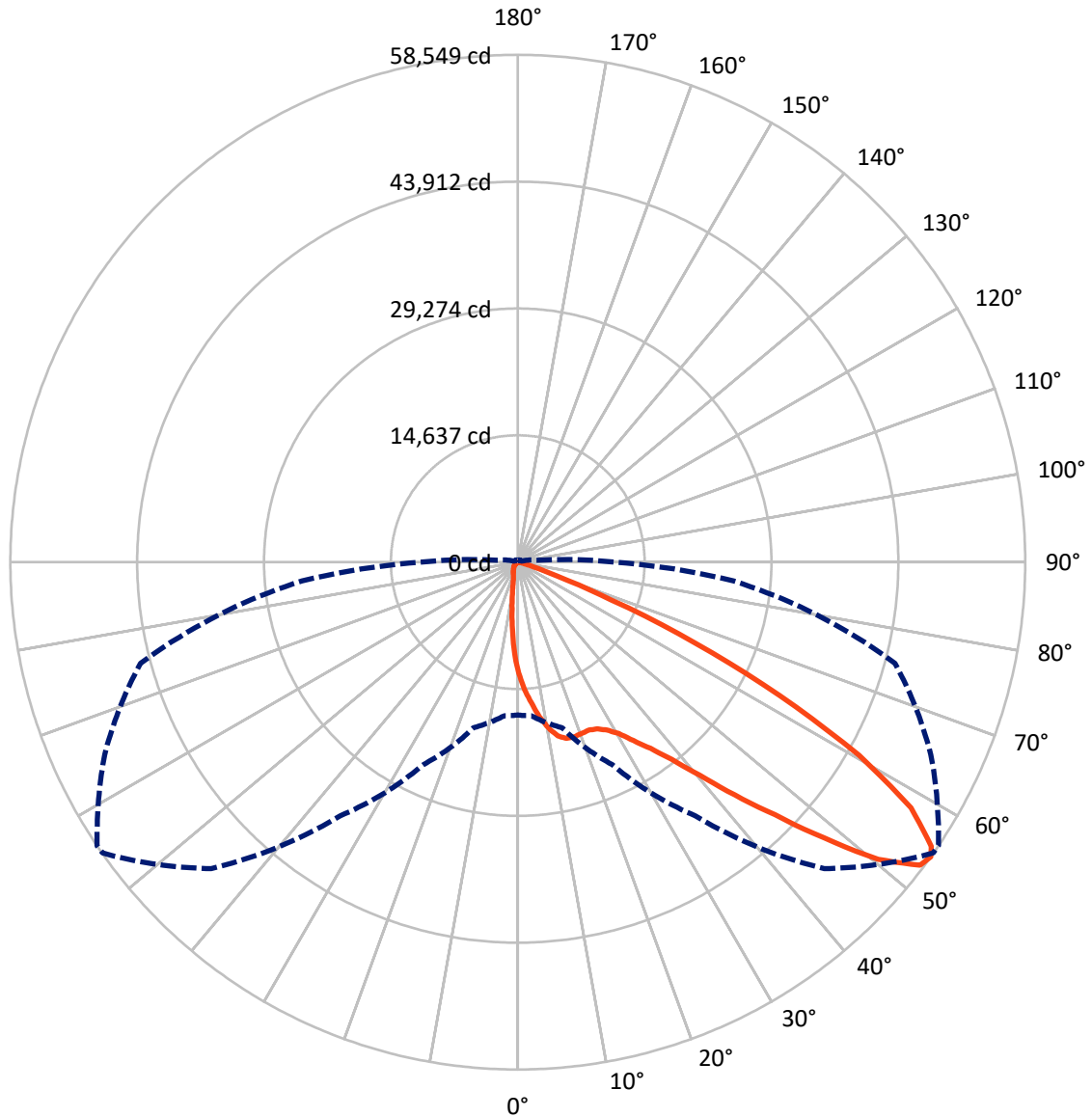
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2717.1   | 0.0    | 2717.1  |
|                    | % Fixture | 4.7      | 0.0    | 4.7     |
| <b>Street Side</b> | Lumens    | 54741.9  | 0.0    | 54741.9 |
|                    | % Fixture | 95.3     | 0.0    | 95.3    |
| <b>Total</b>       | Lumens    | 57459.0  | 0.0    | 57459.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1128.0  | 2.0       |
| 10°-20°   | 3049.5  | 5.3       |
| 20°-30°   | 5281.5  | 9.2       |
| 30°-40°   | 9116.7  | 15.9      |
| 40°-50°   | 15517.0 | 27.0      |
| 50°-60°   | 15356.0 | 26.7      |
| 60°-70°   | 7008.8  | 12.2      |
| 70°-80°   | 900.1   | 1.6       |
| 80°-90°   | 101.4   | 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°    | 57459.0 | 100.0     |
| 0°-180°   | 57459.0 | 100.0     |

**Coefficient of Utilization**



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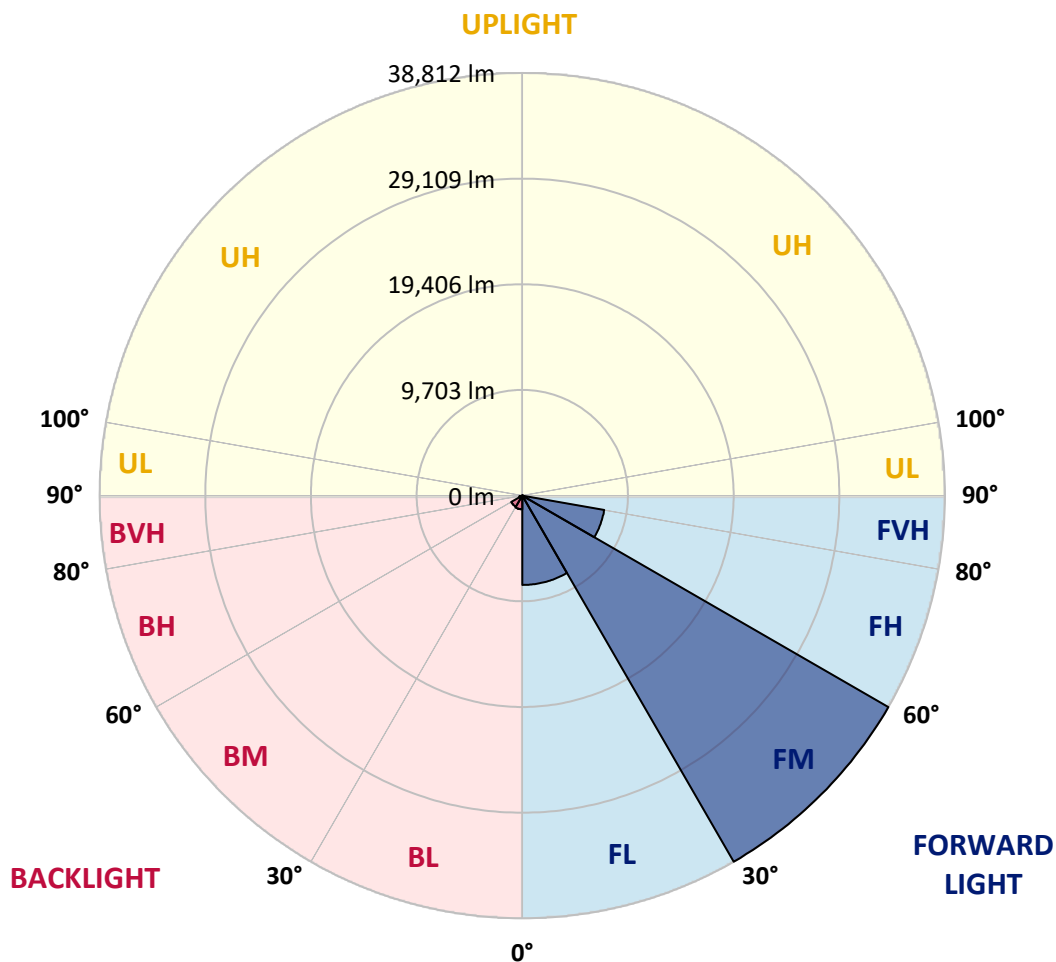
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 8202.5  | 14.3      |                         |      |          |
| FM   | (30°-60°)   | 38812.1 | 67.5      |                         |      |          |
| FH   | (60°-80°)   | 7636.8  | 13.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 90.6    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 1256.6  | 2.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1177.6  | 2.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 272.1   | 0.5       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 10.9    | 0.0       |                         |      | G1/100   |
| 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°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 |
| 2.5°  | 16223.7 | 16111.3 | 15956.2 | 15836.0 | 15553.0 | 15146.0 | 14715.7 | 14715.7 | 14300.9 | 13723.3 | 13134.0 |
| 5°    | 18712.5 | 18638.8 | 18487.6 | 18177.5 | 17859.6 | 17289.8 | 16425.3 | 16274.1 | 15533.7 | 14487.0 | 13386.0 |
| 7.5°  | 19724.3 | 19759.2 | 19766.9 | 19685.5 | 19534.3 | 18972.2 | 18115.5 | 18010.8 | 16828.4 | 15425.1 | 13715.5 |
| 10°   | 18755.1 | 18925.7 | 19092.4 | 19429.7 | 19906.5 | 20042.2 | 19557.6 | 19449.0 | 18286.1 | 16374.9 | 14072.2 |
| 12.5° | 17313.0 | 17406.1 | 17499.1 | 18030.2 | 18987.7 | 20084.8 | 20592.7 | 20588.8 | 19604.1 | 17320.8 | 14525.7 |
| 15°   | 16642.4 | 16723.8 | 16731.5 | 16968.0 | 17797.6 | 19394.8 | 21034.6 | 21092.7 | 20891.2 | 18487.6 | 15014.2 |
| 17.5° | 16781.9 | 16847.8 | 16793.6 | 16851.7 | 17285.9 | 18635.0 | 20984.2 | 21178.0 | 21934.0 | 19608.0 | 15456.1 |
| 20°   | 17692.9 | 17820.9 | 17611.5 | 17448.7 | 17580.5 | 18433.4 | 20813.6 | 21085.0 | 22670.5 | 20701.2 | 15859.3 |
| 22.5° | 19328.9 | 19398.6 | 19135.0 | 18689.2 | 18456.6 | 18855.9 | 20767.1 | 21034.6 | 23298.5 | 21596.7 | 16091.9 |
| 25°   | 21147.0 | 21123.7 | 20833.0 | 20332.9 | 19844.5 | 19708.8 | 21073.4 | 21313.7 | 23818.0 | 22403.0 | 16161.7 |
| 27.5° | 22965.1 | 23034.9 | 22546.5 | 21926.2 | 21340.8 | 20988.1 | 21759.5 | 21937.8 | 24403.4 | 23321.8 | 16247.0 |
| 30°   | 25077.9 | 24965.5 | 24484.8 | 23775.4 | 23104.7 | 22612.4 | 22864.4 | 22914.8 | 25209.7 | 24539.1 | 16471.8 |
| 32.5° | 27826.4 | 27516.3 | 26977.5 | 25736.9 | 25256.2 | 24422.8 | 24484.8 | 24546.8 | 26190.5 | 25744.7 | 16743.2 |
| 35°   | 31555.8 | 31540.3 | 30485.8 | 28815.0 | 27644.2 | 26609.2 | 26337.8 | 26388.2 | 27675.3 | 27535.7 | 17344.0 |
| 37.5° | 36044.9 | 36106.9 | 34905.2 | 33222.7 | 31067.3 | 29423.6 | 28865.4 | 28873.1 | 29931.4 | 30009.0 | 18258.9 |
| 40°   | 39700.6 | 39863.4 | 39146.2 | 38010.3 | 35882.1 | 33311.9 | 32373.7 | 32288.4 | 33102.5 | 33005.6 | 19565.3 |
| 42.5° | 41274.5 | 41425.7 | 41693.1 | 42088.6 | 40917.8 | 38797.3 | 36583.7 | 36700.0 | 36948.1 | 36269.7 | 21030.7 |
| 45°   | 40503.0 | 40743.4 | 41793.9 | 44236.2 | 45337.2 | 44623.9 | 41983.9 | 41576.8 | 40526.3 | 39816.9 | 22503.8 |
| 47.5° | 37289.3 | 37874.7 | 39630.8 | 43697.4 | 47550.7 | 49962.0 | 48077.9 | 47539.1 | 44108.3 | 42406.4 | 23442.0 |
| 50°   | 32005.4 | 32040.3 | 34486.5 | 39685.0 | 46403.2 | 53330.8 | 54299.9 | 53896.8 | 47446.1 | 43860.2 | 23914.9 |
| 52.5° | 23201.6 | 23965.3 | 26206.0 | 32226.4 | 41433.4 | 52819.1 | 58265.7 | 58099.0 | 50888.5 | 44604.5 | 24597.2 |
| 54°   | 17638.7 | 17786.0 | 19778.6 | 25752.4 | 35723.1 | 50008.5 | 58510.0 | 58548.7 | 52598.1 | 45054.2 | 25000.4 |
| 55°   | 14459.8 | 14107.1 | 16200.4 | 21937.8 | 31827.1 | 47523.6 | 57711.4 | 57897.4 | 53365.7 | 45286.8 | 25298.9 |
| 57.5° | 6853.9  | 6857.8  | 8458.8  | 11571.7 | 19933.6 | 36901.6 | 52830.7 | 53489.7 | 53451.0 | 45686.1 | 26217.6 |
| 60°   | 3469.6  | 3492.8  | 3845.6  | 5342.0  | 9846.6  | 24531.3 | 43681.9 | 45251.9 | 49337.9 | 45744.2 | 26520.0 |
| 62.5° | 2426.8  | 2399.6  | 2341.5  | 2570.2  | 4144.1  | 12467.2 | 32521.0 | 33885.6 | 41918.0 | 43530.7 | 25558.6 |
| 65°   | 2077.9  | 2019.7  | 1856.9  | 1822.0  | 2093.4  | 4966.0  | 20255.4 | 22480.6 | 32005.4 | 37692.5 | 22821.7 |
| 67.5° | 1775.5  | 1752.2  | 1604.9  | 1515.8  | 1480.9  | 2163.2  | 10451.4 | 11622.1 | 21875.8 | 27093.8 | 17285.9 |
| 70°   | 1508.0  | 1496.4  | 1407.2  | 1294.8  | 1197.9  | 1294.8  | 3876.6  | 4803.1  | 12192.0 | 14587.8 | 8156.4  |
| 72.5° | 1225.0  | 1236.6  | 1252.2  | 1108.7  | 1007.9  | 918.8   | 1655.3  | 1926.7  | 5101.6  | 5214.1  | 2853.2  |
| 75°   | 1073.8  | 1062.2  | 1062.2  | 965.3   | 841.2   | 682.3   | 911.0   | 980.8   | 1562.3  | 1449.9  | 662.9   |
| 77.5° | 755.9   | 728.8   | 852.9   | 794.7   | 701.7   | 484.6   | 519.5   | 550.5   | 647.4   | 554.4   | 310.1   |
| 80°   | 523.3   | 523.3   | 546.6   | 713.3   | 631.9   | 352.8   | 317.9   | 341.1   | 383.8   | 329.5   | 178.3   |
| 82.5° | 294.6   | 302.4   | 356.6   | 379.9   | 368.3   | 236.5   | 209.3   | 213.2   | 255.9   | 224.8   | 112.4   |
| 85°   | 34.9    | 58.1    | 205.5   | 201.6   | 151.2   | 104.7   | 116.3   | 120.2   | 158.9   | 139.6   | 65.9    |
| 87.5° | 3.9     | 7.8     | 42.6    | 54.3    | 38.8    | 42.6    | 42.6    | 42.6    | 54.3    | 62.0    | 46.5    |
| 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°    | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 | 12765.7 |
| 2.5°  | 12816.1 | 12521.5 | 11819.8 | 11005.7 | 10486.3 | 9641.2  | 8927.9  | 8412.3  | 8284.4  | 8036.3  | 8109.9  |
| 5°    | 12800.6 | 12188.1 | 10757.6 | 9245.8  | 7633.1  | 6431.3  | 5535.8  | 4830.3  | 4520.1  | 4314.7  | 4171.3  |
| 7.5°  | 12808.4 | 11850.9 | 9555.9  | 7148.5  | 5221.8  | 4043.3  | 3213.7  | 2783.4  | 2496.5  | 2376.4  | 2391.9  |
| 10°   | 12831.6 | 11470.9 | 8160.3  | 5295.5  | 3523.9  | 2612.8  | 2105.0  | 1899.5  | 1802.6  | 1787.1  | 1783.2  |
| 12.5° | 12885.9 | 11056.1 | 6826.7  | 3930.9  | 2465.5  | 1899.5  | 1705.7  | 1635.9  | 1604.9  | 1604.9  | 1593.3  |
| 15°   | 12944.1 | 10598.7 | 5718.0  | 2923.0  | 1899.5  | 1632.1  | 1542.9  | 1508.0  | 1488.6  | 1488.6  | 1484.7  |
| 17.5° | 12944.1 | 10071.5 | 4683.0  | 2267.8  | 1635.9  | 1500.3  | 1430.5  | 1384.0  | 1368.4  | 1368.4  | 1364.6  |
| 20°   | 12862.7 | 9459.0  | 3764.2  | 1825.9  | 1484.7  | 1376.2  | 1306.4  | 1256.0  | 1236.6  | 1228.9  | 1225.0  |
| 22.5° | 12579.7 | 8641.0  | 2996.6  | 1570.0  | 1360.7  | 1267.7  | 1178.5  | 1120.3  | 1104.8  | 1097.1  | 1101.0  |
| 25°   | 12075.7 | 7718.4  | 2372.5  | 1380.1  | 1248.3  | 1135.9  | 1058.3  | 1015.7  | 1000.2  | 1000.2  | 1004.0  |
| 27.5° | 11556.2 | 6753.1  | 1880.2  | 1236.6  | 1112.6  | 1011.8  | 949.8   | 922.6   | 918.8   | 930.4   | 934.3   |
| 30°   | 11075.5 | 5783.9  | 1523.5  | 1120.3  | 992.4   | 907.1   | 864.5   | 856.7   | 856.7   | 860.6   | 864.5   |
| 32.5° | 10540.6 | 4934.9  | 1275.4  | 1019.6  | 895.5   | 821.8   | 798.6   | 798.6   | 806.3   | 806.3   | 814.1   |
| 35°   | 10203.3 | 4206.1  | 1120.3  | 922.6   | 821.8   | 759.8   | 744.3   | 748.2   | 759.8   | 775.3   | 783.1   |
| 37.5° | 10021.1 | 3624.6  | 1019.6  | 845.1   | 752.1   | 709.4   | 693.9   | 701.7   | 728.8   | 755.9   | 759.8   |
| 40°   | 10036.6 | 3186.6  | 938.1   | 779.2   | 697.8   | 651.3   | 639.6   | 662.9   | 690.0   | 717.2   | 721.1   |
| 42.5° | 10207.2 | 2861.0  | 860.6   | 701.7   | 651.3   | 585.4   | 581.5   | 604.8   | 616.4   | 643.5   | 647.4   |
| 45°   | 10408.7 | 2624.5  | 779.2   | 620.3   | 566.0   | 507.8   | 511.7   | 531.1   | 546.6   | 589.2   | 597.0   |
| 47.5° | 10470.8 | 2461.7  | 686.2   | 527.2   | 465.2   | 445.8   | 449.7   | 461.3   | 492.3   | 531.1   | 535.0   |
| 50°   | 10540.6 | 2360.9  | 597.0   | 445.8   | 395.4   | 391.5   | 395.4   | 403.2   | 422.6   | 438.1   | 434.2   |
| 52.5° | 10839.1 | 2357.0  | 523.3   | 387.7   | 337.3   | 345.0   | 348.9   | 345.0   | 329.5   | 306.3   | 298.5   |
| 54°   | 11118.2 | 2368.6  | 488.5   | 360.5   | 310.1   | 321.8   | 317.9   | 298.5   | 259.7   | 236.5   | 224.8   |
| 55°   | 11343.0 | 2380.2  | 469.1   | 341.1   | 294.6   | 298.5   | 302.4   | 263.6   | 213.2   | 190.0   | 182.2   |
| 57.5° | 11785.0 | 2353.1  | 422.6   | 298.5   | 259.7   | 244.2   | 240.4   | 174.4   | 116.3   | 100.8   | 93.0    |
| 60°   | 11564.0 | 2124.4  | 383.8   | 255.9   | 221.0   | 197.7   | 162.8   | 96.9    | 58.1    | 42.6    | 42.6    |
| 62.5° | 10695.6 | 1802.6  | 341.1   | 209.3   | 182.2   | 151.2   | 85.3    | 54.3    | 27.1    | 15.5    | 11.6    |
| 65°   | 9567.5  | 1515.8  | 306.3   | 166.7   | 143.4   | 96.9    | 46.5    | 34.9    | 11.6    | 0.0     | 0.0     |
| 67.5° | 7113.6  | 1124.2  | 259.7   | 131.8   | 108.5   | 62.0    | 31.0    | 19.4    | 3.9     | 0.0     | 0.0     |
| 70°   | 3295.1  | 686.2   | 221.0   | 100.8   | 77.5    | 46.5    | 23.3    | 11.6    | 0.0     | 0.0     | 0.0     |
| 72.5° | 945.9   | 430.3   | 182.2   | 73.7    | 54.3    | 38.8    | 19.4    | 7.8     | 3.9     | 0.0     | 0.0     |
| 75°   | 329.5   | 345.0   | 135.7   | 54.3    | 42.6    | 27.1    | 15.5    | 7.8     | 3.9     | 0.0     | 0.0     |
| 77.5° | 197.7   | 279.1   | 85.3    | 46.5    | 34.9    | 23.3    | 15.5    | 7.8     | 3.9     | 3.9     | 0.0     |
| 80°   | 112.4   | 186.1   | 54.3    | 38.8    | 31.0    | 19.4    | 11.6    | 7.8     | 3.9     | 3.9     | 0.0     |
| 82.5° | 62.0    | 89.2    | 42.6    | 34.9    | 27.1    | 19.4    | 11.6    | 7.8     | 3.9     | 3.9     | 3.9     |
| 85°   | 50.4    | 46.5    | 34.9    | 31.0    | 23.3    | 15.5    | 11.6    | 3.9     | 0.0     | 0.0     | 0.0     |
| 87.5° | 38.8    | 31.0    | 31.0    | 31.0    | 23.3    | 15.5    | 11.6    | 3.9     | 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)