

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: P653050

Luminaire Tested: **GLAN-SA8C-840-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-840-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39495 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

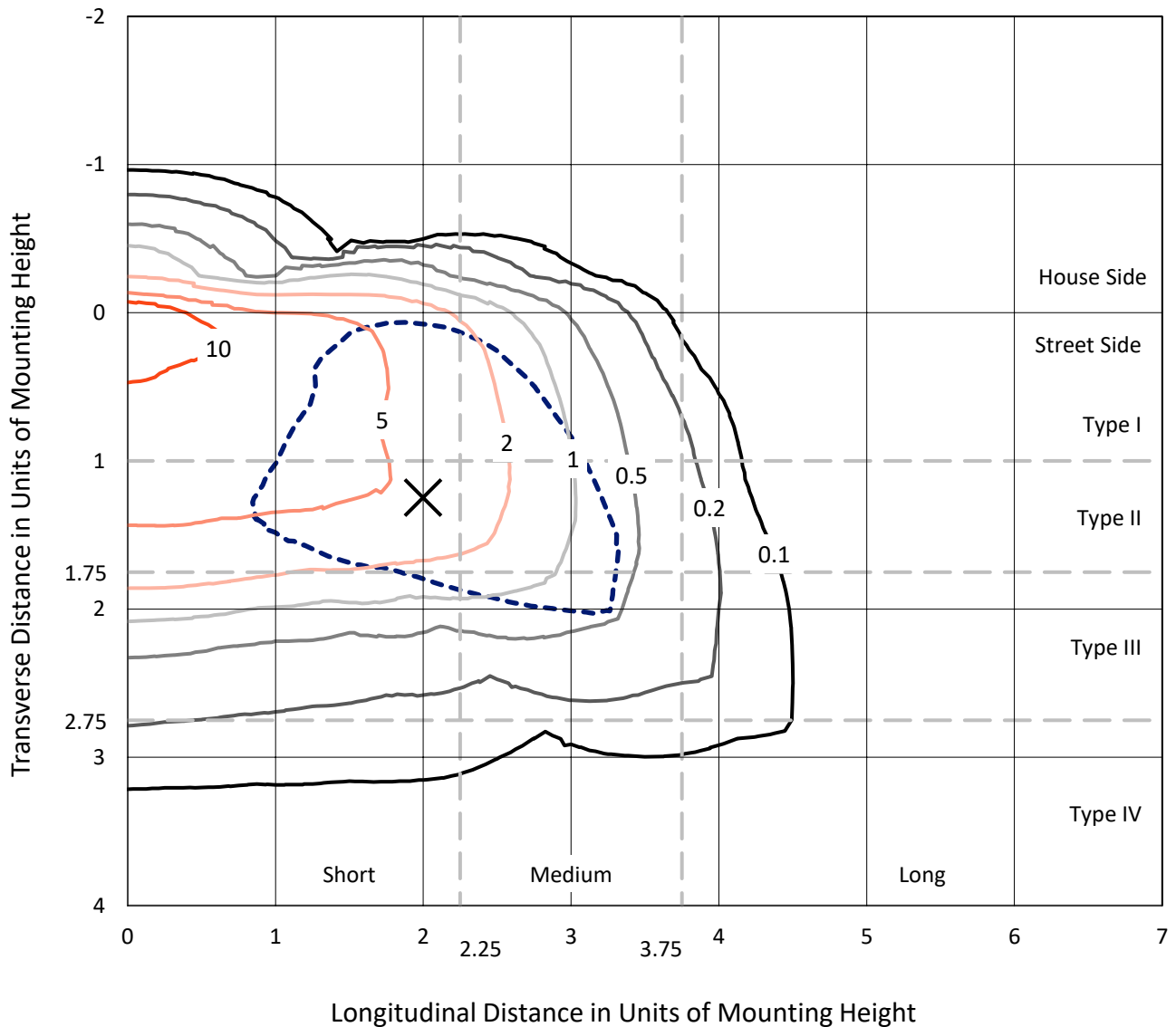
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

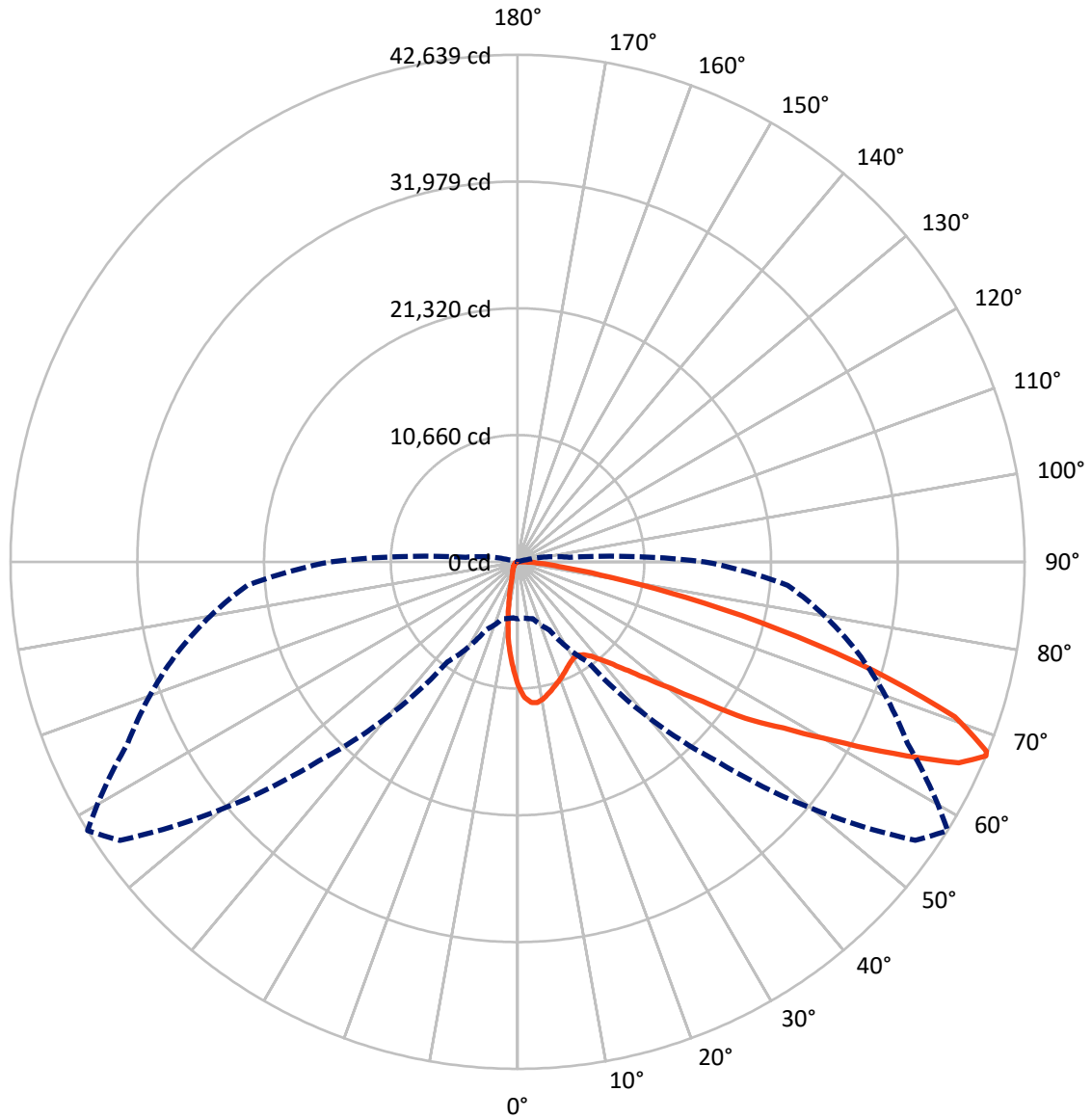
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2850.2   | 0.0    | 2850.2  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 36644.8  | 0.0    | 36644.8 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 39495.0  | 0.0    | 39495.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 849.6   | 2.2       |
| 10°-20°   | 1834.9  | 4.6       |
| 20°-30°   | 2486.5  | 6.3       |
| 30°-40°   | 3448.6  | 8.7       |
| 40°-50°   | 5500.1  | 13.9      |
| 50°-60°   | 9507.3  | 24.1      |
| 60°-70°   | 10860.3 | 27.5      |
| 70°-80°   | 4527.8  | 11.5      |
| 80°-90°   | 480.1   | 1.2       |
| 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°    | 39495.0 | 100.0     |
| 0°-180°   | 39495.0 | 100.0     |

**Coefficient of Utilization**



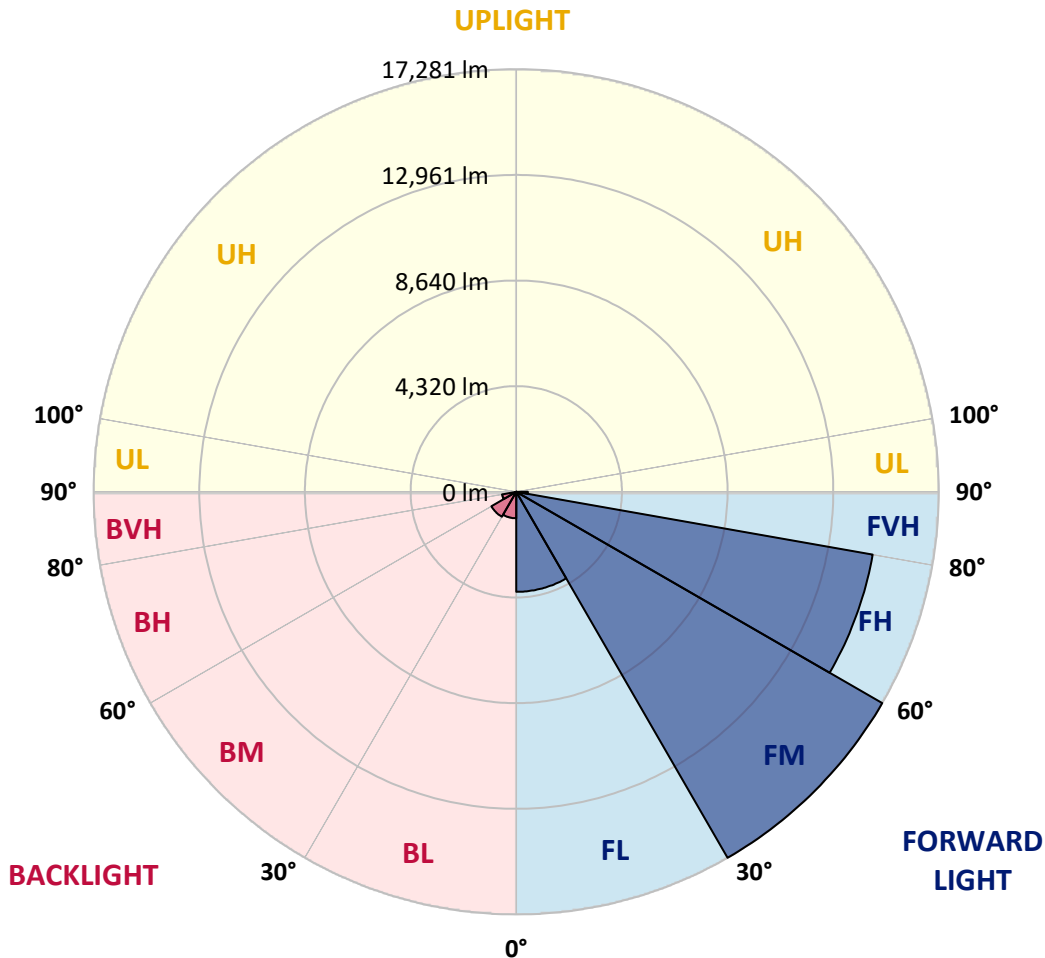
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4088.7  | 10.4      |                         |      |         |
| FM (30°-60°)   | 17280.7 | 43.8      |                         |      |         |
| FH (60°-80°)   | 14798.8 | 37.5      |                         |      | G5      |
| FVH (80°-90°)  | 476.6   | 1.2       |                         |      | G3/500  |
| BL (0°-30°)    | 1082.3  | 2.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 1175.2  | 3.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 589.2   | 1.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 3.5     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 |
| 2.5°  | 12150.9 | 12169.4 | 12100.8 | 12045.4 | 11902.8 | 11749.8 | 11546.6 | 11438.4 | 11253.6 | 10934.3 | 10580.6 |
| 5°    | 12436.0 | 12459.8 | 12449.2 | 12436.0 | 12380.5 | 12232.8 | 11974.2 | 11879.1 | 11607.3 | 11087.3 | 10448.7 |
| 7.5°  | 11802.6 | 11889.6 | 11900.2 | 12003.2 | 12100.8 | 12114.0 | 12016.4 | 11945.1 | 11694.4 | 11084.7 | 10213.8 |
| 10°   | 10963.3 | 11021.4 | 11105.8 | 11224.6 | 11459.5 | 11654.7 | 11749.8 | 11739.3 | 11594.1 | 11002.9 | 9939.3  |
| 12.5° | 10116.1 | 10147.8 | 10277.1 | 10480.3 | 10768.0 | 11100.5 | 11353.9 | 11404.0 | 11406.7 | 10905.2 | 9709.7  |
| 15°   | 9387.7  | 9374.5  | 9474.8  | 9709.7  | 10113.4 | 10530.5 | 10984.4 | 11063.6 | 11190.3 | 10810.2 | 9495.9  |
| 17.5° | 8764.8  | 8833.4  | 8849.3  | 9107.9  | 9480.1  | 10021.1 | 10599.1 | 10739.0 | 10992.4 | 10728.4 | 9319.0  |
| 20°   | 8379.5  | 8416.5  | 8450.8  | 8595.9  | 8931.1  | 9501.2  | 10237.5 | 10430.2 | 10807.6 | 10654.5 | 9121.1  |
| 22.5° | 8266.0  | 8289.8  | 8260.7  | 8305.6  | 8543.1  | 9049.8  | 9844.2  | 10100.2 | 10630.7 | 10585.9 | 8960.2  |
| 25°   | 8353.1  | 8376.9  | 8308.2  | 8255.5  | 8337.3  | 8683.0  | 9464.2  | 9775.7  | 10488.3 | 10572.7 | 8838.7  |
| 27.5° | 8564.2  | 8609.1  | 8514.1  | 8419.1  | 8371.6  | 8485.1  | 9166.0  | 9527.6  | 10390.6 | 10636.0 | 8783.3  |
| 30°   | 8894.2  | 8920.6  | 8849.3  | 8733.2  | 8625.0  | 8511.5  | 9010.3  | 9356.0  | 10364.2 | 10783.8 | 8778.0  |
| 32.5° | 9253.1  | 9308.5  | 9268.9  | 9192.4  | 9052.5  | 8783.3  | 9055.1  | 9361.3  | 10427.6 | 10997.6 | 8844.0  |
| 35°   | 9696.5  | 9759.8  | 9796.8  | 9780.9  | 9601.4  | 9266.3  | 9340.2  | 9598.8  | 10596.4 | 11390.8 | 9023.5  |
| 37.5° | 10131.9 | 10187.4 | 10395.9 | 10467.2 | 10308.8 | 9992.1  | 9894.4  | 10066.0 | 10968.6 | 11905.5 | 9348.1  |
| 40°   | 10630.7 | 10704.7 | 10997.6 | 11269.5 | 11193.0 | 10860.3 | 10681.0 | 10823.4 | 11538.7 | 12681.4 | 9963.1  |
| 42.5° | 11108.4 | 11240.4 | 11686.5 | 12166.8 | 12238.1 | 11865.9 | 11747.2 | 11794.7 | 12383.2 | 13797.9 | 10820.8 |
| 45°   | 11786.8 | 11910.7 | 12486.2 | 13138.0 | 13473.2 | 13182.9 | 13061.5 | 13053.6 | 13541.8 | 15368.2 | 12211.7 |
| 47.5° | 12765.9 | 12876.7 | 13555.0 | 14199.0 | 14795.5 | 14835.1 | 14605.4 | 14684.6 | 14998.6 | 17205.1 | 13916.6 |
| 50°   | 13966.7 | 14228.0 | 14674.0 | 15344.4 | 16141.5 | 16785.4 | 16856.7 | 16751.1 | 17020.3 | 19332.2 | 15964.6 |
| 52.5° | 15711.2 | 15811.6 | 16220.6 | 16772.2 | 17706.5 | 18799.1 | 19646.3 | 19501.2 | 19416.8 | 21359.2 | 18033.7 |
| 55°   | 17012.4 | 17147.0 | 17783.0 | 18540.5 | 19910.3 | 21351.2 | 23188.1 | 23238.3 | 22172.0 | 23306.9 | 20058.0 |
| 57.5° | 16619.2 | 16825.0 | 17788.3 | 19311.1 | 22322.5 | 24956.4 | 26323.6 | 26357.9 | 24721.5 | 25199.2 | 22343.6 |
| 60°   | 14600.2 | 14697.8 | 16078.1 | 18110.3 | 22528.4 | 28862.4 | 30770.6 | 30493.5 | 27315.9 | 27315.9 | 24362.6 |
| 62.5° | 10353.6 | 10506.7 | 11625.7 | 14616.0 | 20345.7 | 30219.1 | 36096.6 | 35523.8 | 30889.4 | 29340.1 | 25566.1 |
| 65°   | 6616.5  | 6468.7  | 7210.3  | 9226.7  | 15157.0 | 28215.9 | 40733.7 | 40768.0 | 34251.7 | 30150.4 | 24908.9 |
| 67°   | 4792.9  | 4734.7  | 4948.5  | 6307.8  | 10277.1 | 23718.6 | 40831.3 | 42639.2 | 36183.7 | 29638.4 | 22808.1 |
| 67.5° | 4383.7  | 4428.6  | 4584.3  | 5690.1  | 9337.5  | 21583.5 | 40387.9 | 42528.4 | 36619.2 | 29329.6 | 22048.0 |
| 70°   | 3322.8  | 3246.3  | 3415.1  | 4024.8  | 5597.8  | 13615.7 | 34742.6 | 39005.0 | 36078.1 | 26265.5 | 17616.8 |
| 72.5° | 2443.9  | 2436.0  | 2670.8  | 3291.1  | 4309.9  | 7252.5  | 26080.8 | 31274.7 | 29474.8 | 20000.0 | 11092.6 |
| 75°   | 1649.5  | 1723.4  | 2098.2  | 2750.1  | 3906.0  | 4703.1  | 17780.4 | 22689.3 | 20461.9 | 11356.5 | 4534.2  |
| 77.5° | 939.6   | 944.9   | 1351.3  | 2209.1  | 3507.6  | 3784.7  | 10535.7 | 14455.0 | 10831.3 | 3776.7  | 1346.0  |
| 80°   | 406.5   | 446.1   | 670.4   | 1604.6  | 2908.4  | 3351.8  | 6041.2  | 7944.0  | 4381.1  | 799.7   | 435.5   |
| 82.5° | 150.5   | 176.9   | 295.6   | 987.1   | 2121.9  | 2760.6  | 3650.0  | 3792.6  | 1485.9  | 282.4   | 271.8   |
| 85°   | 0.0     | 5.3     | 108.2   | 461.9   | 1105.8  | 1232.5  | 2438.6  | 2248.6  | 657.2   | 134.6   | 176.9   |
| 87.5° | 0.0     | 0.0     | 0.0     | 47.5    | 145.2   | 459.2   | 757.5   | 844.5   | 158.4   | 47.5    | 42.2    |
| 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°    | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 | 10469.8 |
| 2.5°  | 10390.6 | 10219.1 | 9788.8  | 9358.6  | 9039.3  | 8772.7  | 8371.6  | 8152.6  | 8036.4  | 7864.9  | 7875.5  |
| 5°    | 10129.3 | 9780.9  | 9023.5  | 8239.6  | 7606.3  | 6988.6  | 6249.6  | 5951.4  | 5700.7  | 5558.2  | 5463.2  |
| 7.5°  | 9741.4  | 9226.7  | 8105.1  | 7059.9  | 6086.1  | 5006.6  | 4196.3  | 3655.3  | 3291.1  | 3156.5  | 3027.2  |
| 10°   | 9316.4  | 8632.9  | 7173.4  | 5724.4  | 4373.2  | 3259.5  | 2573.2  | 2077.1  | 1900.2  | 1736.6  | 1752.5  |
| 12.5° | 8923.2  | 8091.8  | 6318.3  | 4518.4  | 3064.1  | 2071.8  | 1615.2  | 1412.0  | 1353.9  | 1335.4  | 1335.4  |
| 15°   | 8601.2  | 7574.6  | 5399.8  | 3396.6  | 2100.8  | 1488.5  | 1293.2  | 1237.8  | 1216.7  | 1211.4  | 1211.4  |
| 17.5° | 8258.1  | 7083.7  | 4571.1  | 2509.9  | 1528.1  | 1245.7  | 1179.8  | 1142.8  | 1134.8  | 1129.5  | 1129.5  |
| 20°   | 7952.0  | 6590.2  | 3784.7  | 1868.5  | 1235.2  | 1121.6  | 1079.4  | 1055.7  | 1047.8  | 1042.5  | 1045.1  |
| 22.5° | 7661.7  | 6152.0  | 3045.7  | 1412.0  | 1087.3  | 1021.4  | 979.2   | 955.4   | 939.6   | 926.4   | 929.0   |
| 25°   | 7403.0  | 5729.7  | 2449.2  | 1156.0  | 979.2   | 921.1   | 878.8   | 844.5   | 810.2   | 794.4   | 791.8   |
| 27.5° | 7220.9  | 5360.3  | 1908.1  | 989.7   | 881.5   | 818.1   | 765.4   | 723.2   | 678.3   | 654.6   | 649.3   |
| 30°   | 7070.5  | 4985.4  | 1509.6  | 873.5   | 783.8   | 723.2   | 657.2   | 596.4   | 548.9   | 525.2   | 514.6   |
| 32.5° | 6972.8  | 4629.2  | 1190.3  | 778.6   | 702.1   | 628.1   | 554.2   | 493.5   | 440.8   | 417.0   | 411.8   |
| 35°   | 6957.0  | 4331.0  | 973.9   | 699.4   | 628.1   | 548.9   | 472.4   | 406.5   | 361.5   | 337.8   | 332.5   |
| 37.5° | 7070.5  | 4101.3  | 815.5   | 636.0   | 567.4   | 480.4   | 395.9   | 335.1   | 295.6   | 277.1   | 274.5   |
| 40°   | 7374.0  | 3956.1  | 707.3   | 583.2   | 512.0   | 417.0   | 337.8   | 285.0   | 245.5   | 227.0   | 227.0   |
| 42.5° | 7952.0  | 3961.4  | 636.0   | 533.1   | 456.6   | 356.3   | 287.7   | 237.5   | 203.2   | 187.4   | 182.1   |
| 45°   | 8854.6  | 4140.9  | 575.3   | 483.0   | 403.8   | 308.8   | 245.5   | 195.3   | 161.0   | 147.8   | 147.8   |
| 47.5° | 10063.3 | 4497.2  | 522.6   | 432.9   | 356.3   | 263.9   | 208.5   | 158.4   | 129.3   | 116.1   | 116.1   |
| 50°   | 11644.2 | 5070.0  | 477.7   | 390.6   | 316.7   | 227.0   | 168.9   | 129.3   | 100.3   | 89.7    | 87.1    |
| 52.5° | 13296.4 | 5777.2  | 424.9   | 353.6   | 271.8   | 192.7   | 137.3   | 100.3   | 76.5    | 68.6    | 66.0    |
| 55°   | 15120.1 | 6468.7  | 374.7   | 316.7   | 221.7   | 161.0   | 108.2   | 79.1    | 55.4    | 47.5    | 47.5    |
| 57.5° | 16959.6 | 7147.0  | 314.0   | 263.9   | 174.2   | 118.7   | 84.4    | 58.0    | 36.9    | 29.0    | 29.0    |
| 60°   | 18516.7 | 7366.1  | 266.6   | 213.8   | 132.0   | 84.4    | 60.7    | 36.9    | 21.1    | 13.2    | 13.2    |
| 62.5° | 18730.5 | 6627.1  | 224.3   | 163.7   | 95.0    | 58.0    | 31.7    | 21.1    | 7.9     | 5.3     | 5.3     |
| 65°   | 17569.2 | 5384.0  | 187.4   | 124.0   | 63.3    | 29.0    | 13.2    | 7.9     | 2.6     | 0.0     | 0.0     |
| 67°   | 15742.9 | 4365.3  | 153.1   | 92.3    | 44.8    | 18.5    | 7.9     | 2.6     | 0.0     | 0.0     | 0.0     |
| 67.5° | 15275.8 | 4162.0  | 147.8   | 87.1    | 39.6    | 15.8    | 5.3     | 2.6     | 0.0     | 0.0     | 0.0     |
| 70°   | 11987.4 | 3116.9  | 105.5   | 52.8    | 23.7    | 10.6    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72.5° | 7450.5  | 1763.0  | 76.5    | 31.7    | 15.8    | 5.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 75°   | 2816.0  | 617.5   | 52.8    | 21.1    | 10.6    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 876.2   | 234.9   | 31.7    | 15.8    | 5.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 295.6   | 89.7    | 21.1    | 5.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 182.1   | 36.9    | 13.2    | 2.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 113.5   | 15.8    | 5.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 21.1    | 5.3     | 2.6     | 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)