

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: P532622

Luminaire Tested: **GLAN-SA8A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

#### Test Information

Test Method: LM-79-08  
Report Number: P532622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8A-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 30347 lumens  
Efficiency: N/A  
Efficacy: 124.4 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): 244  
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



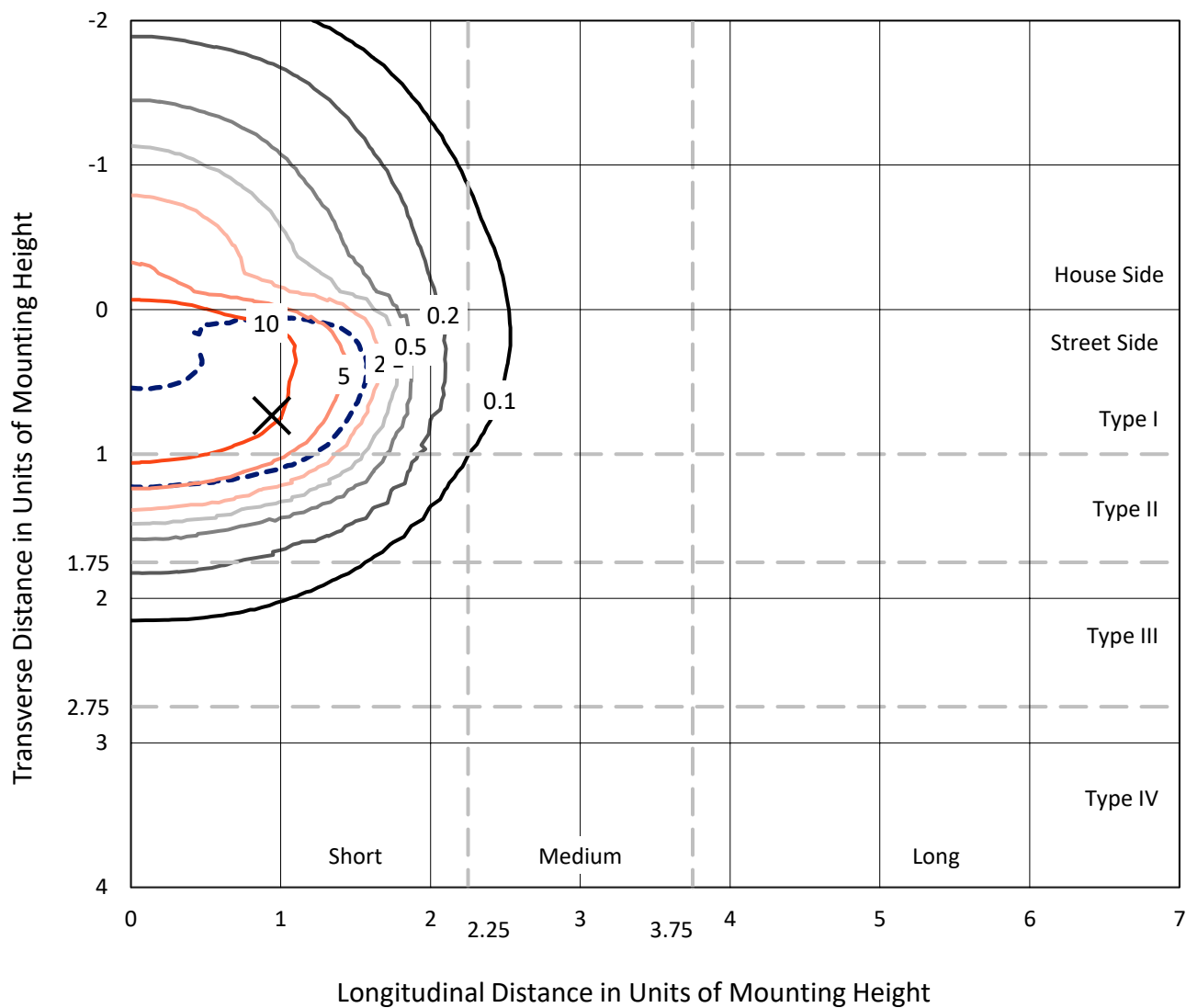
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

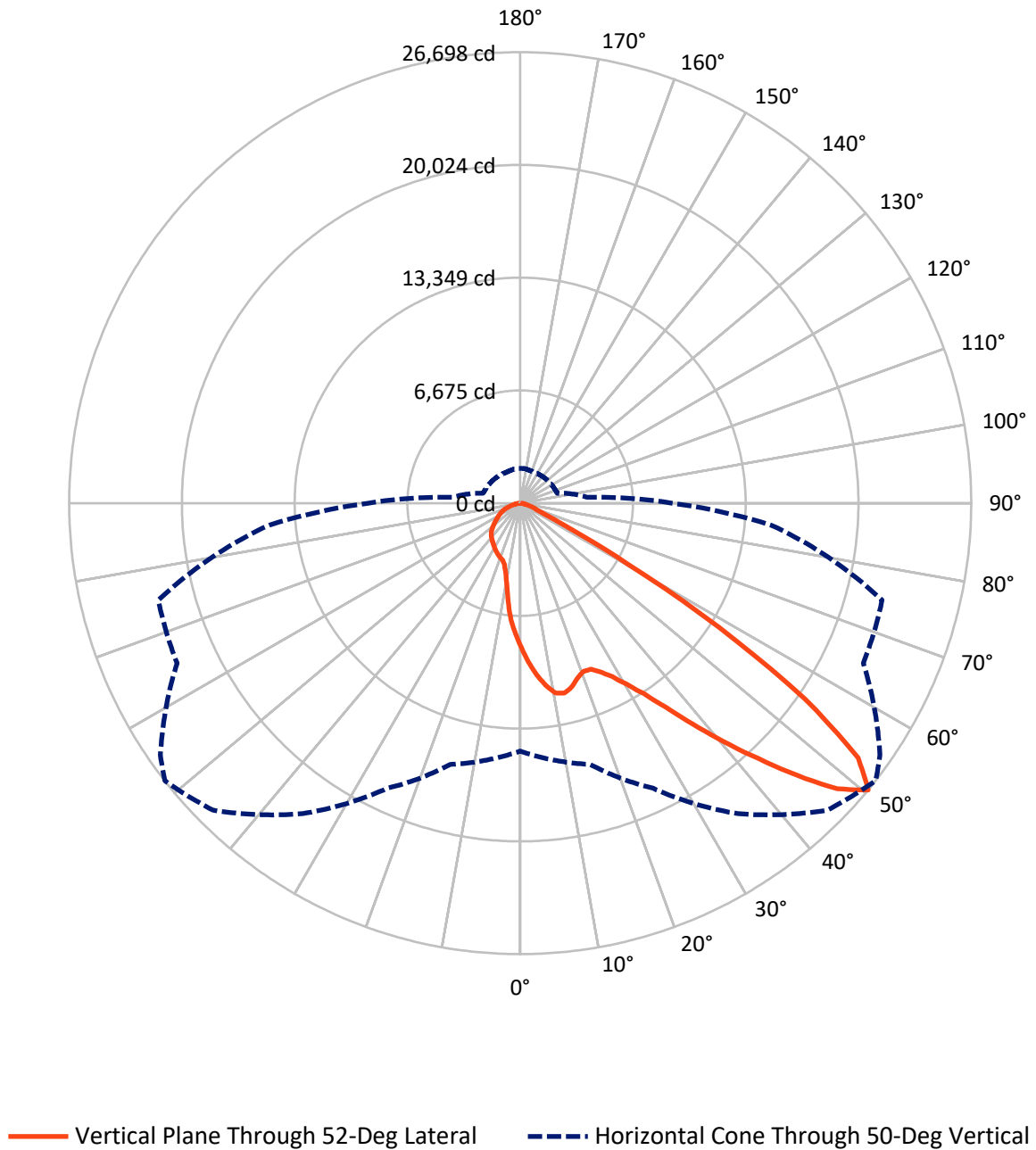


Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: GLAN-SA8A-730-U-AFL-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5704.5   | 0.0    | 5704.5  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 24642.5  | 0.0    | 24642.5 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 30347.0  | 0.0    | 30347.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 788.5   | 2.6       |
| 10°-20°   | 2113.2  | 7.0       |
| 20°-30°   | 3559.7  | 11.7      |
| 30°-40°   | 5973.4  | 19.7      |
| 40°-50°   | 9137.9  | 30.1      |
| 50°-60°   | 6662.2  | 22.0      |
| 60°-70°   | 1482.7  | 4.9       |
| 70°-80°   | 534.8   | 1.8       |
| 80°-90°   | 94.7    | 0.3       |
| 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°    | 30347.0 | 100.0     |
| 0°-180°   | 30347.0 | 100.0     |

**Coefficient of Utilization**



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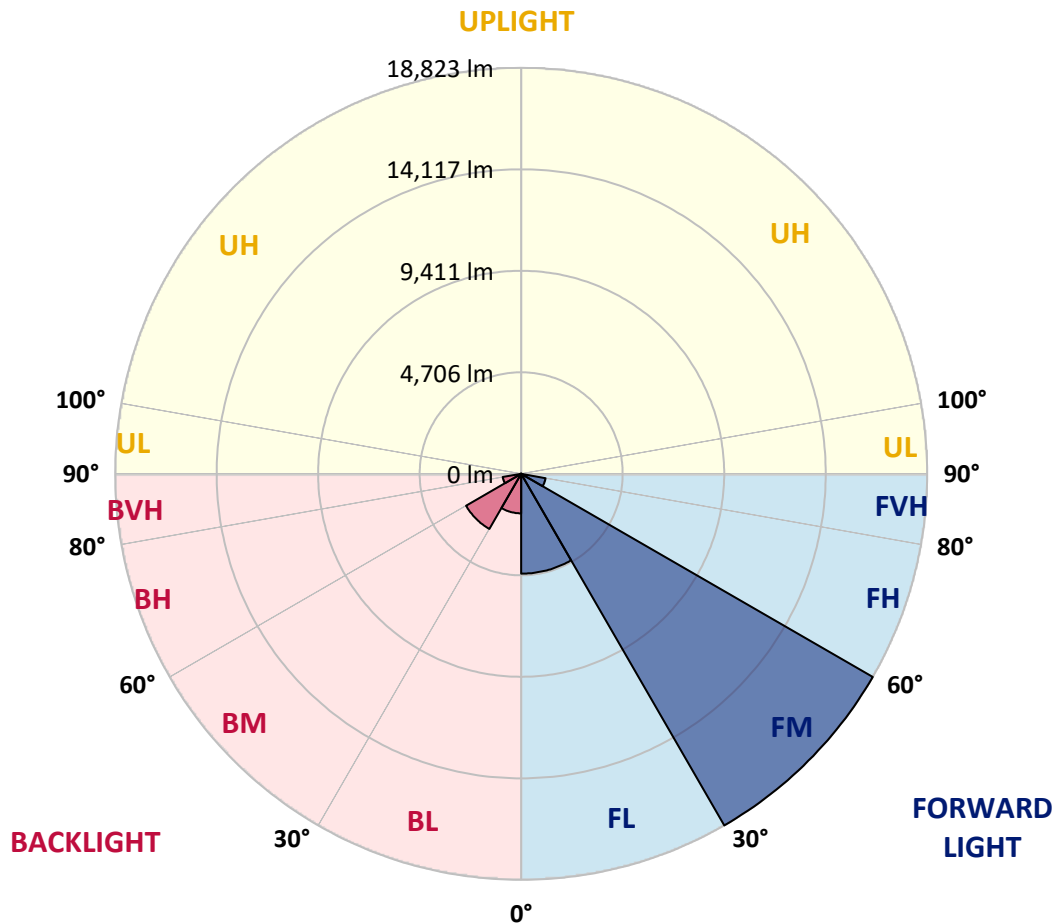
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4629.0  | 15.3      |                         |      |         |
| FM   | (30°-60°)   | 18822.7 | 62.0      |                         |      |         |
| FH   | (60°-80°)   | 1148.4  | 3.8       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 42.4    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1832.4  | 6.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2950.8  | 9.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 869.1   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 52.2    | 0.2       |                         |      | 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°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8554.3  | 8554.3  | 8554.3  | 8554.3  | 8554.3  | 8554.3  | 8554.3  | 8554.3  | 8554.3  | 8554.3  | 8554.3  |
| 2.5°  | 10072.1 | 9878.2  | 9900.2  | 9761.2  | 9611.3  | 9567.4  | 9413.8  | 9267.5  | 9157.8  | 8923.7  | 8707.9  |
| 5°    | 11008.3 | 10949.8 | 10862.0 | 10752.3 | 10639.0 | 10361.0 | 10203.7 | 10020.9 | 9618.6  | 9256.5  | 8898.1  |
| 7.5°  | 11143.7 | 11132.7 | 11180.2 | 11180.2 | 11220.5 | 11114.4 | 10891.3 | 10763.3 | 10335.4 | 9746.6  | 9081.0  |
| 10°   | 10192.8 | 10225.7 | 10456.1 | 10756.0 | 11172.9 | 11461.8 | 11425.3 | 11392.3 | 10924.2 | 10119.6 | 9296.7  |
| 12.5° | 9435.7  | 9362.6  | 9497.9  | 9753.9  | 10379.3 | 11077.8 | 11549.6 | 11553.3 | 11432.6 | 10715.8 | 9454.0  |
| 15°   | 9007.8  | 9059.0  | 9095.6  | 9216.3  | 9688.1  | 10496.3 | 11326.5 | 11571.6 | 12101.9 | 11136.3 | 9702.7  |
| 17.5° | 9282.1  | 9110.2  | 9102.9  | 9132.2  | 9373.5  | 9980.6  | 10913.2 | 11333.8 | 12467.6 | 11677.6 | 10009.9 |
| 20°   | 9640.5  | 9636.9  | 9534.5  | 9497.9  | 9494.2  | 10035.5 | 10642.6 | 11213.1 | 12661.4 | 12379.8 | 10320.8 |
| 22.5° | 10269.6 | 10269.6 | 10101.3 | 10020.9 | 9849.0  | 10291.5 | 10679.2 | 11066.8 | 12983.3 | 12862.6 | 10470.7 |
| 25°   | 11322.9 | 11151.0 | 10862.0 | 10664.6 | 10565.8 | 10723.1 | 11066.8 | 11414.3 | 13264.9 | 13374.6 | 10781.6 |
| 27.5° | 12295.7 | 12025.0 | 11882.4 | 11542.3 | 11410.6 | 11319.2 | 11633.7 | 11984.8 | 13594.0 | 14171.9 | 10949.8 |
| 30°   | 13400.2 | 13352.6 | 13096.6 | 12657.8 | 12332.3 | 12164.0 | 12452.9 | 12800.4 | 14197.5 | 14987.4 | 11337.5 |
| 32.5° | 15375.1 | 14943.5 | 14596.1 | 14058.5 | 13528.2 | 13169.8 | 13455.0 | 13685.4 | 15199.5 | 15839.6 | 11761.7 |
| 35°   | 17507.3 | 17368.3 | 16768.5 | 15799.3 | 14987.4 | 14665.6 | 14833.8 | 15005.7 | 16366.2 | 17141.5 | 12474.9 |
| 37.5° | 19602.9 | 19412.7 | 18919.0 | 18103.4 | 17115.9 | 16461.3 | 16582.0 | 16783.1 | 17675.5 | 18897.0 | 13345.3 |
| 40°   | 21109.7 | 20875.6 | 20626.9 | 20506.2 | 19526.1 | 18630.0 | 18560.6 | 18611.8 | 19445.6 | 20542.8 | 14310.8 |
| 42.5° | 21219.4 | 21508.3 | 21585.1 | 22071.5 | 21841.1 | 21106.0 | 20678.1 | 20689.1 | 21135.3 | 22170.3 | 15287.3 |
| 45°   | 20989.0 | 20722.0 | 21288.9 | 22616.5 | 23377.2 | 23720.9 | 23000.5 | 22909.0 | 22181.2 | 23113.8 | 15773.7 |
| 47.5° | 18571.5 | 18644.7 | 19602.9 | 21702.1 | 23900.2 | 25436.2 | 25268.0 | 24964.4 | 22740.8 | 23080.9 | 15696.9 |
| 50°   | 14680.2 | 15122.7 | 16011.5 | 18626.4 | 22437.3 | 25706.8 | 26698.0 | 25995.8 | 22408.0 | 22173.9 | 14914.3 |
| 52.5° | 9775.8  | 9958.7  | 10543.9 | 13919.5 | 18041.2 | 22978.5 | 25052.2 | 25213.1 | 22100.8 | 20985.3 | 13923.2 |
| 55°   | 4352.1  | 4337.5  | 5160.4  | 7270.6  | 11319.2 | 17485.3 | 20469.6 | 21449.8 | 20919.5 | 19774.8 | 12957.6 |
| 57.5° | 1843.3  | 1905.4  | 2241.9  | 3141.6  | 5566.3  | 10551.2 | 13868.3 | 14727.8 | 16088.3 | 16238.2 | 9940.4  |
| 60°   | 1247.1  | 1254.4  | 1345.9  | 1572.6  | 2329.7  | 4955.6  | 7274.3  | 8305.6  | 9278.5  | 9212.6  | 5273.8  |
| 62.5° | 980.1   | 1005.7  | 1075.2  | 1166.7  | 1382.4  | 2249.2  | 3255.0  | 3829.1  | 3891.3  | 3273.2  | 2000.5  |
| 65°   | 837.5   | 841.2   | 910.7   | 987.5   | 1082.5  | 1309.3  | 1569.0  | 1598.2  | 1616.5  | 1558.0  | 1470.2  |
| 67.5° | 691.2   | 698.5   | 753.4   | 841.2   | 928.9   | 1002.1  | 1075.2  | 1111.8  | 1195.9  | 1360.5  | 1338.6  |
| 70°   | 548.6   | 559.6   | 607.1   | 680.2   | 760.7   | 804.6   | 896.0   | 928.9   | 1005.7  | 1133.7  | 1185.0  |
| 72.5° | 416.9   | 420.6   | 460.8   | 512.0   | 585.2   | 629.0   | 705.8   | 742.4   | 793.6   | 903.3   | 950.9   |
| 75°   | 299.9   | 310.9   | 340.1   | 365.7   | 376.7   | 406.0   | 479.1   | 519.3   | 592.5   | 640.0   | 643.7   |
| 77.5° | 157.3   | 164.6   | 171.9   | 171.9   | 208.5   | 263.3   | 310.9   | 332.8   | 384.0   | 420.6   | 402.3   |
| 80°   | 62.2    | 65.8    | 84.1    | 113.4   | 146.3   | 190.2   | 223.1   | 234.1   | 278.0   | 299.9   | 310.9   |
| 82.5° | 36.6    | 40.2    | 54.9    | 80.5    | 106.1   | 135.3   | 160.9   | 171.9   | 201.1   | 226.7   | 234.1   |
| 85°   | 18.3    | 21.9    | 32.9    | 51.2    | 69.5    | 84.1    | 80.5    | 76.8    | 76.8    | 73.1    | 76.8    |
| 87.5° | 7.3     | 7.3     | 11.0    | 11.0    | 11.0    | 14.6    | 18.3    | 18.3    | 18.3    | 21.9    | 21.9    |
| 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°    | 8554.3 | 8554.3 | 8554.3 | 8554.3 | 8554.3 | 8554.3 | 8554.3 | 8554.3 | 8554.3 | 8554.3 | 8554.3 |
| 2.5°  | 8565.3 | 8419.0 | 8283.7 | 8035.0 | 7764.3 | 7687.5 | 7373.0 | 7259.6 | 7179.2 | 7084.1 | 7054.8 |
| 5°    | 8609.2 | 8415.3 | 7980.1 | 7479.1 | 7080.4 | 6568.4 | 6232.0 | 5869.9 | 5606.6 | 5540.7 | 5522.5 |
| 7.5°  | 8700.6 | 8367.8 | 7618.1 | 6861.0 | 6045.4 | 5350.6 | 4820.3 | 4535.0 | 4282.6 | 4268.0 | 4242.4 |
| 10°   | 8803.0 | 8225.2 | 7223.1 | 6034.5 | 4992.2 | 4348.5 | 4030.3 | 3905.9 | 3843.8 | 3829.1 | 3821.8 |
| 12.5° | 8887.1 | 8195.9 | 6780.5 | 5229.9 | 4246.1 | 3858.4 | 3763.3 | 3752.3 | 3777.9 | 3785.3 | 3799.9 |
| 15°   | 8923.7 | 8078.9 | 6246.6 | 4509.4 | 3781.6 | 3639.0 | 3679.2 | 3723.1 | 3741.4 | 3788.9 | 3752.3 |
| 17.5° | 8993.2 | 7928.9 | 5588.3 | 3938.9 | 3521.9 | 3547.5 | 3617.0 | 3668.2 | 3697.5 | 3730.4 | 3682.9 |
| 20°   | 9029.8 | 7793.6 | 4970.2 | 3598.7 | 3430.5 | 3478.0 | 3573.1 | 3613.4 | 3649.9 | 3664.6 | 3609.7 |
| 22.5° | 8996.8 | 7515.7 | 4425.3 | 3324.4 | 3342.7 | 3404.9 | 3489.0 | 3532.9 | 3511.0 | 3452.4 | 3419.5 |
| 25°   | 8909.1 | 7124.3 | 3858.4 | 3148.9 | 3218.4 | 3328.1 | 3393.9 | 3361.0 | 3320.8 | 3287.9 | 3276.9 |
| 27.5° | 8905.4 | 6645.2 | 3448.8 | 2988.0 | 3112.3 | 3262.3 | 3240.3 | 3211.1 | 3229.4 | 3203.8 | 3174.5 |
| 30°   | 8923.7 | 6180.8 | 3112.3 | 2896.5 | 3035.5 | 3108.7 | 3134.3 | 3105.0 | 3127.0 | 3079.4 | 3094.0 |
| 32.5° | 8828.6 | 5727.3 | 2892.9 | 2790.5 | 2944.1 | 2940.4 | 3024.5 | 3046.5 | 2995.3 | 2896.5 | 2911.2 |
| 35°   | 8868.8 | 5361.5 | 2706.4 | 2742.9 | 2841.7 | 2841.7 | 2907.5 | 2881.9 | 2746.6 | 2688.1 | 2702.7 |
| 37.5° | 9146.8 | 5003.1 | 2614.9 | 2677.1 | 2742.9 | 2772.2 | 2750.3 | 2640.5 | 2607.6 | 2607.6 | 2614.9 |
| 40°   | 9410.1 | 4695.9 | 2560.1 | 2662.5 | 2651.5 | 2669.8 | 2508.9 | 2519.8 | 2519.8 | 2523.5 | 2505.2 |
| 42.5° | 9644.2 | 4487.5 | 2516.2 | 2574.7 | 2593.0 | 2497.9 | 2399.2 | 2388.2 | 2413.8 | 2410.1 | 2395.5 |
| 45°   | 9728.3 | 4315.6 | 2454.0 | 2476.0 | 2490.6 | 2333.3 | 2285.8 | 2263.8 | 2293.1 | 2304.1 | 2318.7 |
| 47.5° | 9406.5 | 4172.9 | 2384.5 | 2340.6 | 2311.4 | 2209.0 | 2146.8 | 2106.6 | 2143.2 | 2205.3 | 2220.0 |
| 50°   | 8993.2 | 3986.4 | 2274.8 | 2190.7 | 2128.5 | 2084.6 | 2040.7 | 2000.5 | 2026.1 | 2070.0 | 2059.0 |
| 52.5° | 8382.4 | 3693.8 | 2135.8 | 2048.1 | 1942.0 | 1953.0 | 1912.7 | 1890.8 | 1905.4 | 1905.4 | 1894.5 |
| 55°   | 7512.0 | 3035.5 | 1901.8 | 1839.6 | 1751.8 | 1781.1 | 1788.4 | 1759.1 | 1729.9 | 1755.5 | 1733.5 |
| 57.5° | 5127.5 | 2143.2 | 1697.0 | 1697.0 | 1609.2 | 1649.4 | 1645.8 | 1576.3 | 1506.8 | 1514.1 | 1499.5 |
| 60°   | 2966.0 | 1707.9 | 1565.3 | 1550.7 | 1459.2 | 1492.2 | 1499.5 | 1451.9 | 1345.9 | 1353.2 | 1338.6 |
| 62.5° | 1686.0 | 1459.2 | 1367.8 | 1345.9 | 1327.6 | 1356.8 | 1356.8 | 1294.7 | 1203.2 | 1210.6 | 1195.9 |
| 65°   | 1433.6 | 1353.2 | 1221.5 | 1217.9 | 1210.6 | 1217.9 | 1188.6 | 1122.8 | 1042.3 | 1009.4 | 1013.1 |
| 67.5° | 1302.0 | 1250.8 | 1122.8 | 1089.9 | 1067.9 | 1064.3 | 1009.4 | 947.2  | 910.7  | 881.4  | 877.7  |
| 70°   | 1141.1 | 1100.8 | 1005.7 | 961.9  | 939.9  | 888.7  | 833.9  | 793.6  | 742.4  | 727.8  | 742.4  |
| 72.5° | 903.3  | 899.7  | 863.1  | 815.6  | 768.0  | 727.8  | 680.2  | 625.4  | 577.8  | 566.9  | 541.3  |
| 75°   | 625.4  | 632.7  | 640.0  | 632.7  | 592.5  | 541.3  | 486.4  | 442.5  | 384.0  | 351.1  | 343.8  |
| 77.5° | 409.6  | 420.6  | 431.6  | 416.9  | 391.3  | 343.8  | 307.2  | 252.4  | 208.5  | 182.9  | 179.2  |
| 80°   | 299.9  | 314.5  | 321.8  | 310.9  | 281.6  | 245.0  | 204.8  | 160.9  | 128.0  | 106.1  | 106.1  |
| 82.5° | 230.4  | 245.0  | 252.4  | 234.1  | 204.8  | 175.5  | 146.3  | 113.4  | 87.8   | 69.5   | 65.8   |
| 85°   | 80.5   | 76.8   | 91.4   | 95.1   | 113.4  | 106.1  | 87.8   | 65.8   | 51.2   | 36.6   | 32.9   |
| 87.5° | 21.9   | 21.9   | 25.6   | 25.6   | 21.9   | 18.3   | 18.3   | 18.3   | 14.6   | 11.0   | 11.0   |
| 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)