

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: McGRAW-EDISON

Report Number: P531612

Luminaire Tested: **GALN-SA6D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-830-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30897 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 368  
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



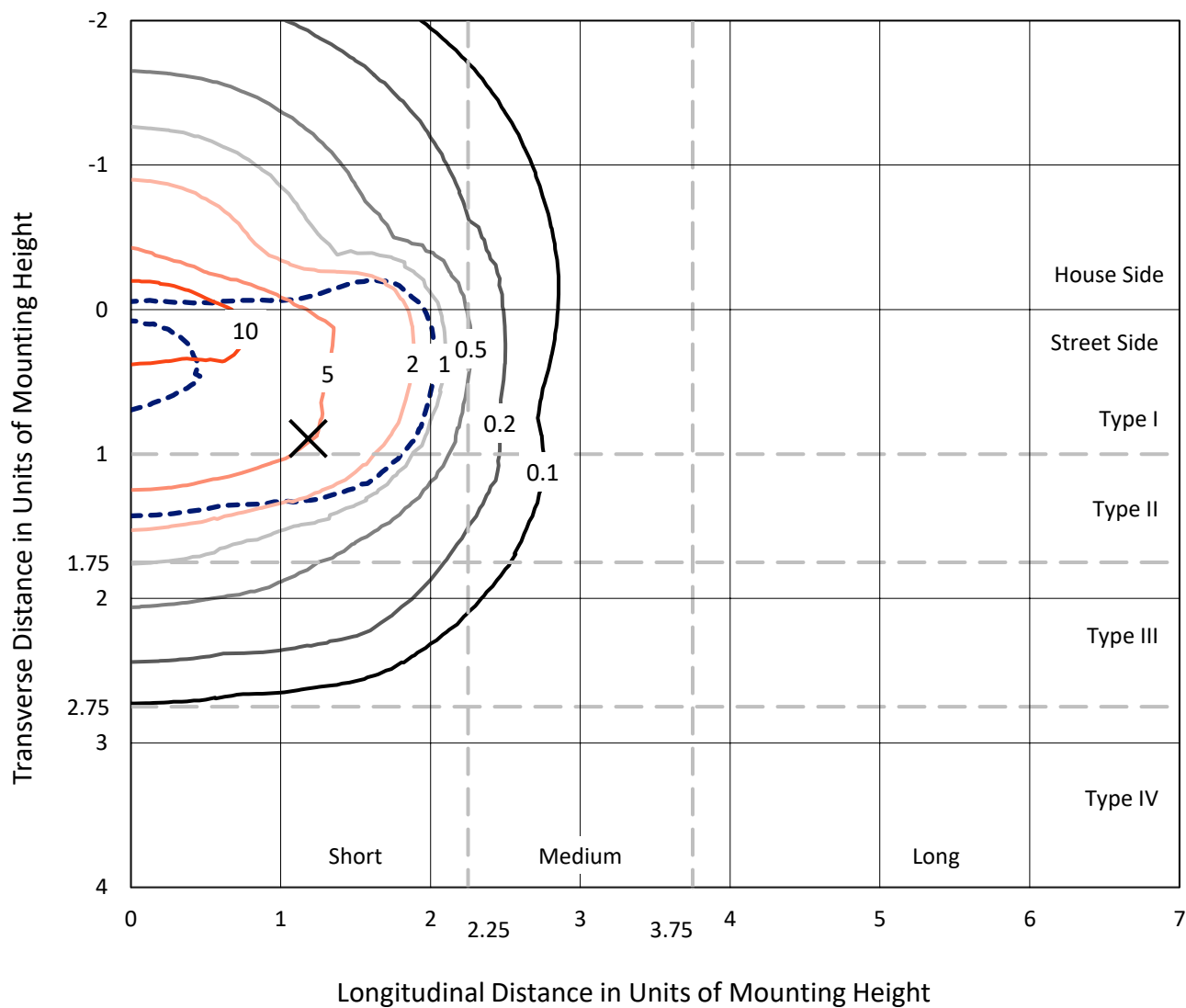
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

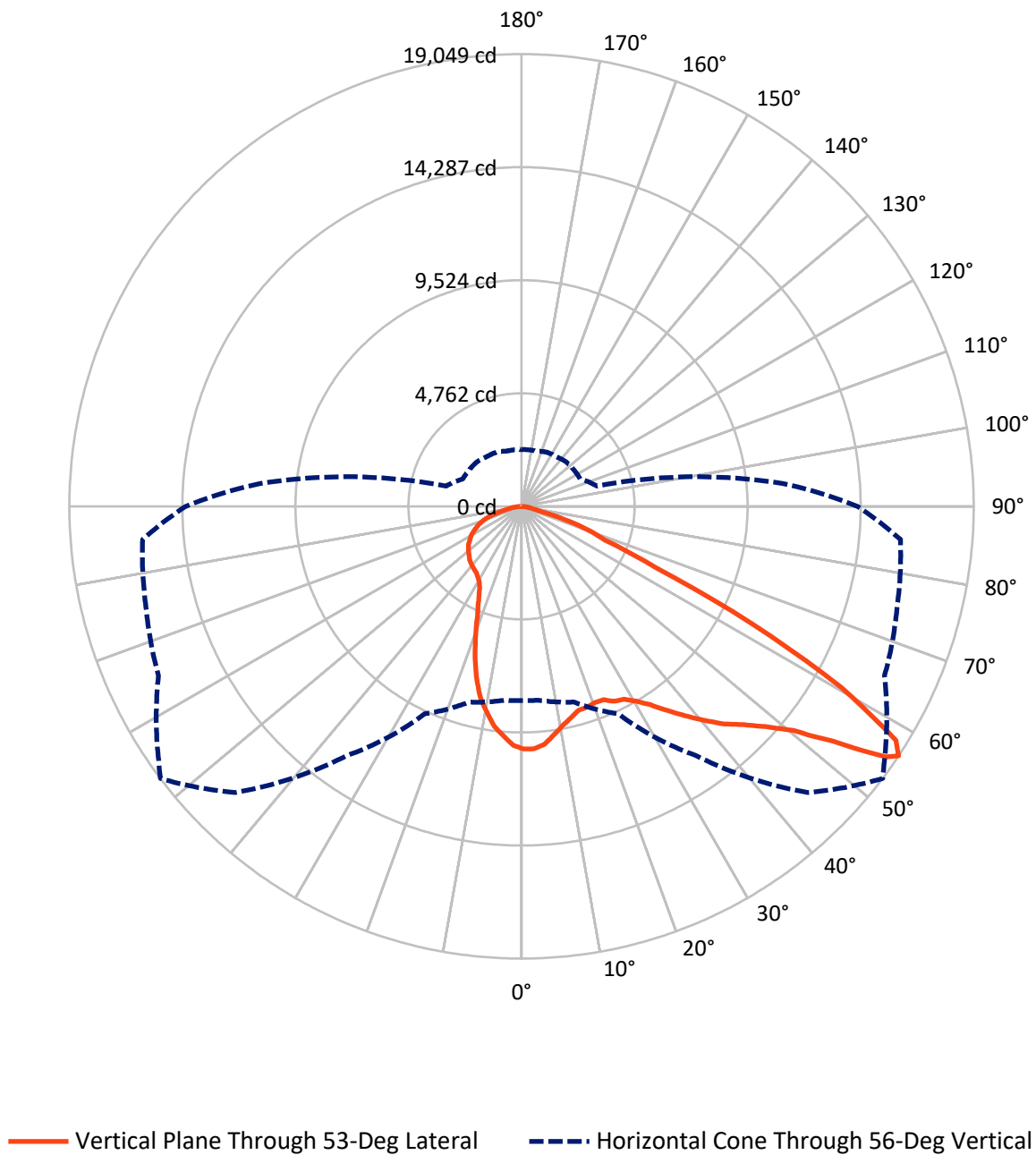


Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9016.4   | 0.0    | 9016.4  |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 21880.6  | 0.0    | 21880.6 |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 30897.0  | 0.0    | 30897.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 904.9   | 2.9       |
| 10°-20°   | 2260.1  | 7.3       |
| 20°-30°   | 3332.8  | 10.8      |
| 30°-40°   | 4761.9  | 15.4      |
| 40°-50°   | 6554.1  | 21.2      |
| 50°-60°   | 7745.1  | 25.1      |
| 60°-70°   | 4127.6  | 13.4      |
| 70°-80°   | 1047.2  | 3.4       |
| 80°-90°   | 163.3   | 0.5       |
| 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°    | 30897.0 | 100.0     |
| 0°-180°   | 30897.0 | 100.0     |

**Coefficient of Utilization**



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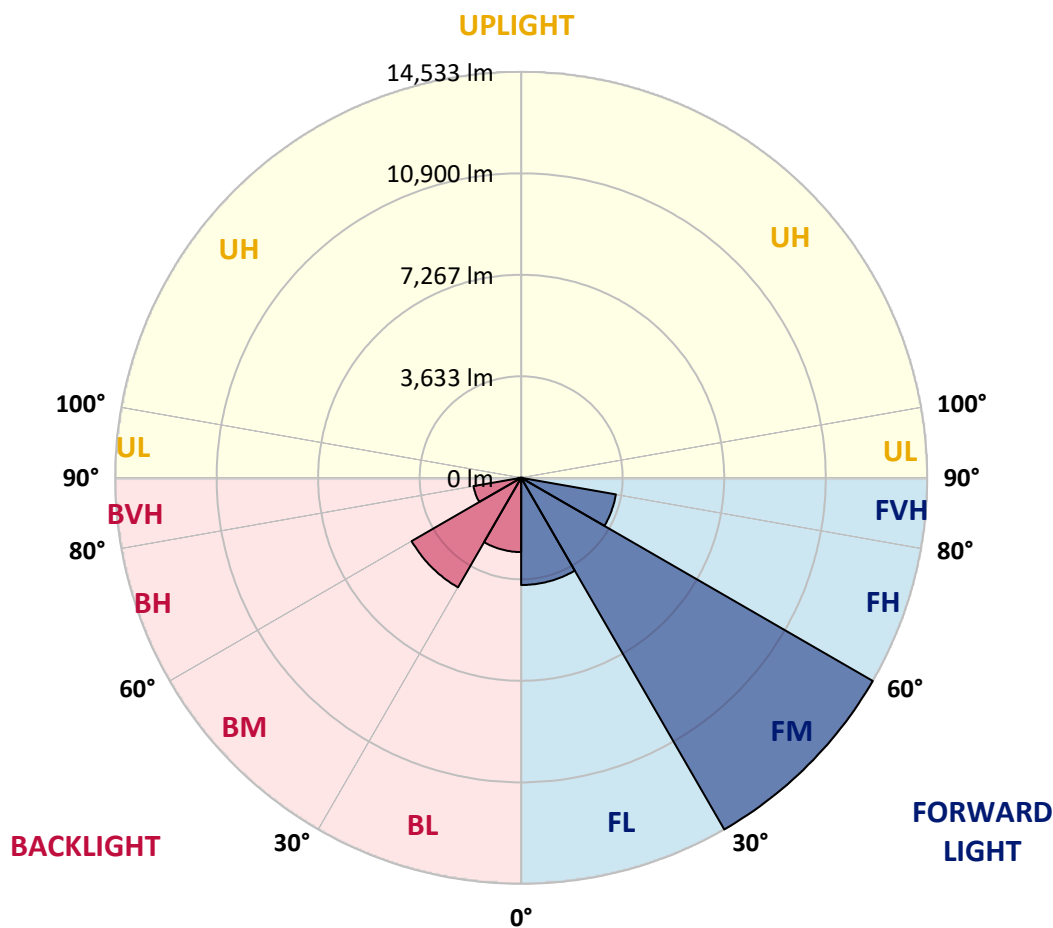
CATALOG NUMBER: GALN-SA6D-830-U-SL2-GRSWH

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3838.5  | 12.4      |                         |      |         |
| FM   | (30°-60°)   | 14533.4 | 47.0      |                         |      |         |
| FH   | (60°-80°)   | 3443.1  | 11.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 65.6    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2659.3  | 8.6       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 4527.7  | 14.7      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1731.7  | 5.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 97.6    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 |
| 2.5°  | 10095.1 | 10007.9 | 10059.4 | 10039.6 | 10202.1 | 10249.7 | 10225.9 | 10245.7 | 10336.9 | 10293.3 | 10202.1 |
| 5°    | 9433.2  | 9556.1  | 9579.9  | 9639.3  | 9734.4  | 9920.7  | 10067.4 | 10107.0 | 10150.6 | 10352.7 | 10332.9 |
| 7.5°  | 8830.7  | 8914.0  | 8870.4  | 9044.8  | 9250.9  | 9552.1  | 9730.5  | 9762.2  | 10162.5 | 10273.5 | 10356.7 |
| 10°   | 8450.2  | 8367.0  | 8565.2  | 8612.8  | 8846.6  | 9191.4  | 9405.5  | 9536.3  | 9900.9  | 10340.9 | 10392.4 |
| 12.5° | 8097.5  | 8069.7  | 8188.7  | 8323.4  | 8585.0  | 8941.7  | 9159.7  | 9211.2  | 9774.1  | 10237.8 | 10479.6 |
| 15°   | 7835.9  | 7804.2  | 7923.1  | 8022.2  | 8327.4  | 8644.5  | 8921.9  | 9068.6  | 9635.3  | 10178.3 | 10404.3 |
| 17.5° | 7629.8  | 7625.8  | 7693.2  | 7871.6  | 8184.7  | 8450.2  | 8898.1  | 8906.1  | 9564.0  | 10269.5 | 10467.7 |
| 20°   | 7617.9  | 7613.9  | 7625.8  | 7824.0  | 8109.4  | 8434.4  | 8822.8  | 8894.2  | 9564.0  | 10206.1 | 10471.6 |
| 22.5° | 7717.0  | 7653.6  | 7724.9  | 7851.8  | 8057.9  | 8462.1  | 8850.6  | 9009.1  | 9793.9  | 10519.2 | 10650.0 |
| 25°   | 7875.5  | 7891.4  | 7931.0  | 7974.6  | 8093.5  | 8525.6  | 9096.3  | 9227.1  | 10063.4 | 10788.7 | 10895.7 |
| 27.5° | 8164.9  | 8156.9  | 8172.8  | 8196.6  | 8299.6  | 8585.0  | 9195.4  | 9532.3  | 10626.2 | 11268.3 | 11161.3 |
| 30°   | 8589.0  | 8561.2  | 8624.6  | 8707.9  | 8612.8  | 8775.3  | 9524.4  | 9778.0  | 11149.4 | 11751.9 | 11458.6 |
| 32.5° | 8973.4  | 9076.5  | 9195.4  | 9231.1  | 9116.1  | 9147.8  | 9960.4  | 10218.0 | 11585.4 | 12346.4 | 11823.2 |
| 35°   | 9453.0  | 9536.3  | 9694.8  | 9805.8  | 9786.0  | 9690.8  | 10554.9 | 10895.7 | 12215.6 | 12782.4 | 12207.7 |
| 37.5° | 9920.7  | 10019.8 | 10281.4 | 10610.4 | 10428.0 | 10384.5 | 11189.0 | 11470.5 | 12409.8 | 13016.2 | 12489.1 |
| 40°   | 10673.8 | 10669.8 | 11121.7 | 11292.1 | 11454.6 | 11379.3 | 11847.0 | 11942.1 | 12512.9 | 12964.7 | 12497.0 |
| 42.5° | 11557.7 | 11502.2 | 11961.9 | 12227.5 | 12437.6 | 12445.5 | 12532.7 | 12501.0 | 12560.4 | 12703.1 | 12413.8 |
| 45°   | 12397.9 | 12516.8 | 12980.6 | 13456.2 | 13666.3 | 13690.0 | 13111.4 | 13051.9 | 12643.7 | 12627.8 | 12255.2 |
| 47.5° | 13424.5 | 13452.2 | 13832.7 | 14459.0 | 14946.5 | 14780.0 | 13860.5 | 13729.7 | 13008.3 | 13131.2 | 12520.8 |
| 50°   | 13483.9 | 13690.0 | 14030.9 | 14768.1 | 16266.3 | 16222.7 | 14831.5 | 14585.8 | 13594.9 | 13844.6 | 13262.0 |
| 52.5° | 12239.4 | 12191.8 | 12596.1 | 13801.0 | 16167.2 | 17657.5 | 16440.7 | 15854.1 | 14855.3 | 14665.1 | 14462.9 |
| 55°   | 9326.2  | 9437.2  | 9793.9  | 11010.7 | 14038.8 | 17677.3 | 18632.6 | 18153.0 | 16202.9 | 15877.9 | 15644.1 |
| 56°   | 8180.7  | 8196.6  | 8533.5  | 9643.3  | 12810.1 | 17047.1 | 19048.7 | 18660.3 | 16872.7 | 16377.3 | 16020.6 |
| 57.5° | 6781.6  | 6690.4  | 6864.8  | 7471.3  | 10812.5 | 15715.4 | 18592.9 | 18973.4 | 17657.5 | 16916.3 | 16420.9 |
| 60°   | 5338.9  | 5319.1  | 5247.7  | 5358.7  | 6833.1  | 11839.1 | 15477.6 | 16333.7 | 17578.3 | 16409.0 | 15727.3 |
| 62.5° | 4359.9  | 4260.8  | 4403.5  | 4562.0  | 4748.3  | 7344.4  | 10875.9 | 11379.3 | 13955.6 | 13099.5 | 11815.3 |
| 65°   | 3380.9  | 3333.3  | 3511.7  | 4026.9  | 4137.9  | 4665.1  | 6195.0  | 6583.4  | 8240.2  | 8093.5  | 7126.4  |
| 67.5° | 2326.6  | 2334.5  | 2489.1  | 3273.9  | 3836.7  | 3789.1  | 3793.1  | 3995.2  | 4300.4  | 3194.6  | 2782.4  |
| 70°   | 1474.4  | 1470.5  | 1553.7  | 2108.6  | 3087.6  | 3119.3  | 2960.8  | 2901.3  | 2750.7  | 1664.7  | 1763.8  |
| 72.5° | 947.3   | 919.5   | 963.1   | 1165.3  | 1597.3  | 1847.0  | 1902.5  | 1938.2  | 1593.3  | 1308.0  | 1418.9  |
| 75°   | 535.1   | 507.3   | 491.5   | 543.0   | 630.2   | 729.3   | 800.6   | 824.4   | 923.5   | 990.9   | 1050.3  |
| 77.5° | 162.5   | 146.7   | 178.4   | 237.8   | 313.1   | 420.1   | 511.3   | 527.1   | 622.3   | 701.5   | 761.0   |
| 80°   | 71.3    | 79.3    | 111.0   | 158.5   | 222.0   | 297.3   | 360.7   | 384.5   | 447.9   | 507.3   | 523.2   |
| 82.5° | 43.6    | 47.6    | 75.3    | 107.0   | 154.6   | 210.1   | 257.6   | 265.6   | 329.0   | 376.5   | 388.4   |
| 85°   | 15.9    | 19.8    | 39.6    | 63.4    | 99.1    | 134.8   | 134.8   | 146.7   | 134.8   | 134.8   | 146.7   |
| 87.5° | 0.0     | 0.0     | 4.0     | 7.9     | 7.9     | 11.9    | 15.9    | 15.9    | 19.8    | 23.8    | 27.7    |
| 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°    | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 | 10221.9 |
| 2.5°  | 10249.7 | 10229.9 | 10198.2 | 10083.2 | 10071.3 | 10035.7 | 9837.5  | 9805.8  | 9837.5  | 9742.4  | 9750.3  |
| 5°    | 10229.9 | 10289.3 | 10051.5 | 9936.6  | 9722.5  | 9568.0  | 9389.6  | 9298.4  | 9135.9  | 9032.9  | 9147.8  |
| 7.5°  | 10317.1 | 10293.3 | 9996.0  | 9746.3  | 9425.3  | 9032.9  | 8719.8  | 8541.4  | 8256.0  | 8176.8  | 8236.2  |
| 10°   | 10285.4 | 10158.5 | 9809.7  | 9480.8  | 8874.3  | 8529.5  | 8022.2  | 7530.7  | 7261.2  | 7122.5  | 7102.6  |
| 12.5° | 10241.8 | 10206.1 | 9623.5  | 9056.7  | 8418.5  | 7693.2  | 6979.8  | 6516.0  | 6076.1  | 5885.8  | 5913.6  |
| 15°   | 10293.3 | 9992.1  | 9274.7  | 8557.3  | 7709.1  | 6757.8  | 5988.9  | 5390.4  | 5085.2  | 4962.3  | 4962.3  |
| 17.5° | 10269.5 | 9889.0  | 9108.2  | 7998.4  | 6924.3  | 5798.6  | 4954.4  | 4593.7  | 4466.9  | 4466.9  | 4502.6  |
| 20°   | 10281.4 | 9956.4  | 8771.3  | 7439.5  | 5996.8  | 4883.1  | 4268.7  | 4137.9  | 4193.4  | 4213.2  | 4233.1  |
| 22.5° | 10348.8 | 9734.4  | 8442.3  | 6825.2  | 5136.7  | 4177.6  | 3876.3  | 3880.3  | 3979.4  | 4086.4  | 4066.6  |
| 25°   | 10432.0 | 9647.2  | 8042.0  | 6214.8  | 4478.8  | 3832.7  | 3737.6  | 3725.7  | 3801.0  | 3856.5  | 3864.4  |
| 27.5° | 10360.7 | 9496.6  | 7633.8  | 5453.8  | 3939.7  | 3602.8  | 3583.0  | 3591.0  | 3614.7  | 3725.7  | 3690.0  |
| 30°   | 10594.5 | 9540.2  | 7122.5  | 4815.7  | 3642.5  | 3527.5  | 3503.8  | 3491.9  | 3527.5  | 3559.3  | 3531.5  |
| 32.5° | 10883.9 | 9385.6  | 6742.0  | 4201.3  | 3495.8  | 3472.1  | 3424.5  | 3408.6  | 3428.5  | 3396.7  | 3412.6  |
| 35°   | 11010.7 | 9357.9  | 6246.5  | 3761.4  | 3380.9  | 3361.1  | 3333.3  | 3329.4  | 3333.3  | 3305.6  | 3281.8  |
| 37.5° | 11082.0 | 9488.7  | 5679.7  | 3559.3  | 3309.5  | 3329.4  | 3265.9  | 3258.0  | 3186.7  | 3202.5  | 3214.4  |
| 40°   | 11204.9 | 9286.6  | 5220.0  | 3365.0  | 3265.9  | 3226.3  | 3170.8  | 3158.9  | 3111.4  | 3083.6  | 3111.4  |
| 42.5° | 11026.5 | 9227.1  | 4768.1  | 3281.8  | 3202.5  | 3158.9  | 3119.3  | 3051.9  | 3036.1  | 3012.3  | 2996.4  |
| 45°   | 10883.9 | 8886.2  | 4363.8  | 3178.8  | 3127.2  | 3103.4  | 3028.1  | 2956.8  | 2897.3  | 2921.1  | 2885.5  |
| 47.5° | 10990.9 | 8767.3  | 3963.5  | 3091.6  | 3024.2  | 2996.4  | 2921.1  | 2865.6  | 2806.2  | 2778.4  | 2770.5  |
| 50°   | 11418.9 | 8989.3  | 3626.6  | 3028.1  | 2937.0  | 2921.1  | 2822.0  | 2758.6  | 2703.1  | 2683.3  | 2691.2  |
| 52.5° | 12441.5 | 9595.7  | 3396.7  | 2897.3  | 2853.7  | 2782.4  | 2726.9  | 2647.6  | 2612.0  | 2548.6  | 2588.2  |
| 55°   | 13737.6 | 10582.6 | 3337.3  | 2774.5  | 2750.7  | 2687.3  | 2612.0  | 2552.5  | 2485.1  | 2433.6  | 2421.7  |
| 56°   | 14153.8 | 11054.3 | 3289.7  | 2726.9  | 2687.3  | 2651.6  | 2552.5  | 2516.8  | 2409.8  | 2397.9  | 2390.0  |
| 57.5° | 14490.7 | 11470.5 | 3297.7  | 2635.7  | 2596.1  | 2564.4  | 2505.0  | 2417.8  | 2346.4  | 2302.8  | 2322.6  |
| 60°   | 13729.7 | 10737.2 | 3147.0  | 2497.0  | 2489.1  | 2429.6  | 2346.4  | 2306.8  | 2219.6  | 2168.1  | 2156.2  |
| 62.5° | 10206.1 | 7288.9  | 2552.5  | 2318.7  | 2314.7  | 2251.3  | 2156.2  | 2112.6  | 2096.7  | 2025.4  | 2025.4  |
| 65°   | 5877.9  | 4570.0  | 2207.7  | 2172.0  | 2140.3  | 2076.9  | 1981.8  | 1946.1  | 1906.5  | 1882.7  | 1862.9  |
| 67.5° | 2508.9  | 2370.2  | 2005.5  | 2001.6  | 1965.9  | 1886.6  | 1791.5  | 1736.0  | 1684.5  | 1636.9  | 1660.7  |
| 70°   | 1819.3  | 1847.0  | 1811.3  | 1791.5  | 1747.9  | 1648.8  | 1565.6  | 1498.2  | 1418.9  | 1387.2  | 1411.0  |
| 72.5° | 1442.7  | 1502.2  | 1553.7  | 1557.7  | 1506.1  | 1391.2  | 1300.0  | 1208.9  | 1121.7  | 1078.1  | 1097.9  |
| 75°   | 1093.9  | 1133.6  | 1185.1  | 1197.0  | 1121.7  | 1042.4  | 955.2   | 860.1   | 792.7   | 741.2   | 749.1   |
| 77.5° | 788.7   | 780.8   | 828.4   | 820.5   | 784.8   | 729.3   | 650.0   | 562.8   | 487.5   | 440.0   | 443.9   |
| 80°   | 539.0   | 550.9   | 578.7   | 574.7   | 531.1   | 495.4   | 436.0   | 364.6   | 309.2   | 269.5   | 261.6   |
| 82.5° | 376.5   | 396.4   | 420.1   | 400.3   | 364.6   | 329.0   | 285.4   | 233.8   | 190.2   | 158.5   | 150.6   |
| 85°   | 134.8   | 154.6   | 178.4   | 190.2   | 202.1   | 194.2   | 162.5   | 130.8   | 95.1    | 79.3    | 75.3    |
| 87.5° | 27.7    | 31.7    | 35.7    | 35.7    | 35.7    | 31.7    | 27.7    | 27.7    | 23.8    | 11.9    | 11.9    |
| 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)