

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: P531923

Luminaire Tested: **GALN-SA7B-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21068 lumens  
Efficiency: N/A  
Efficacy: 73.7 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

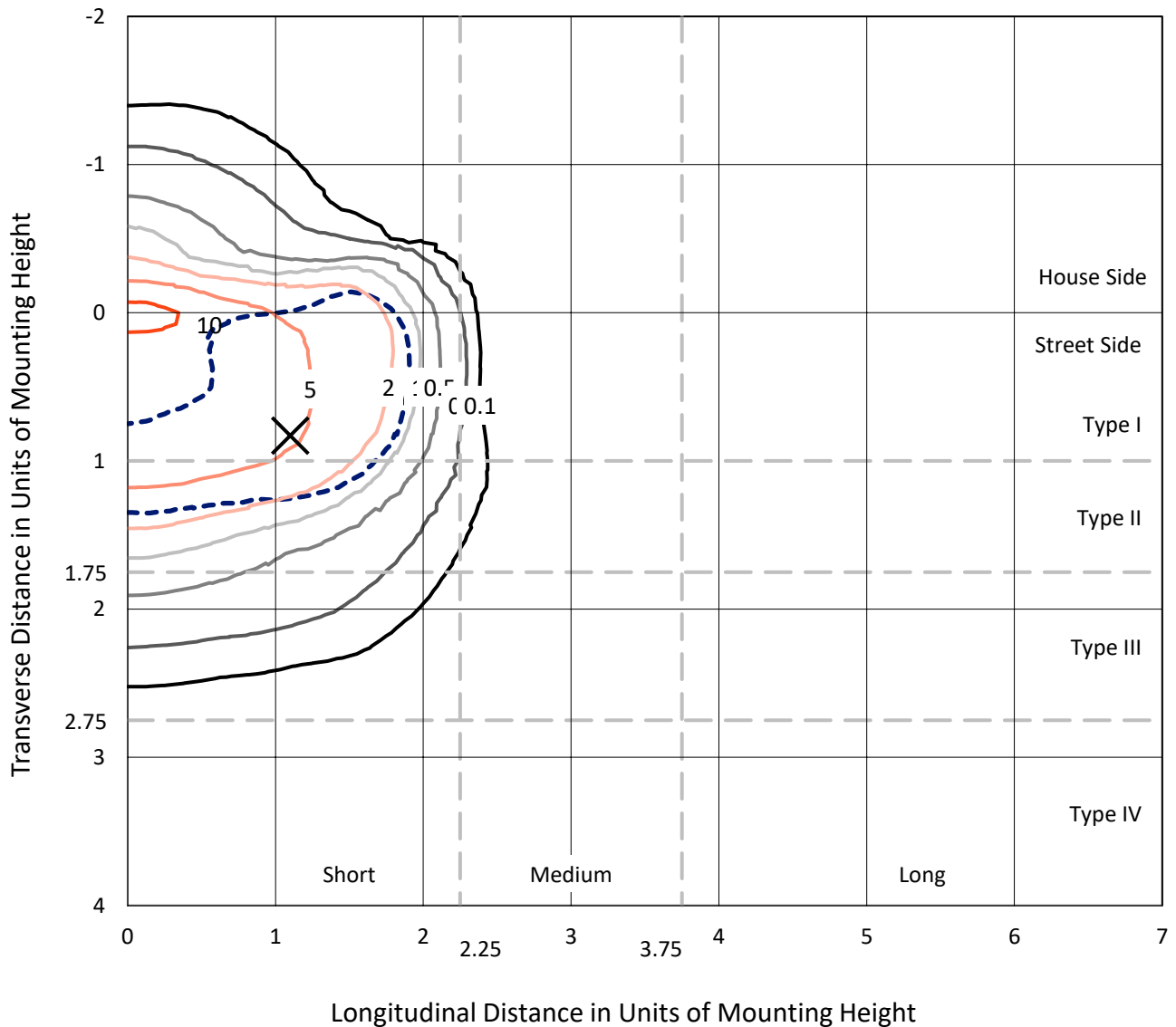
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

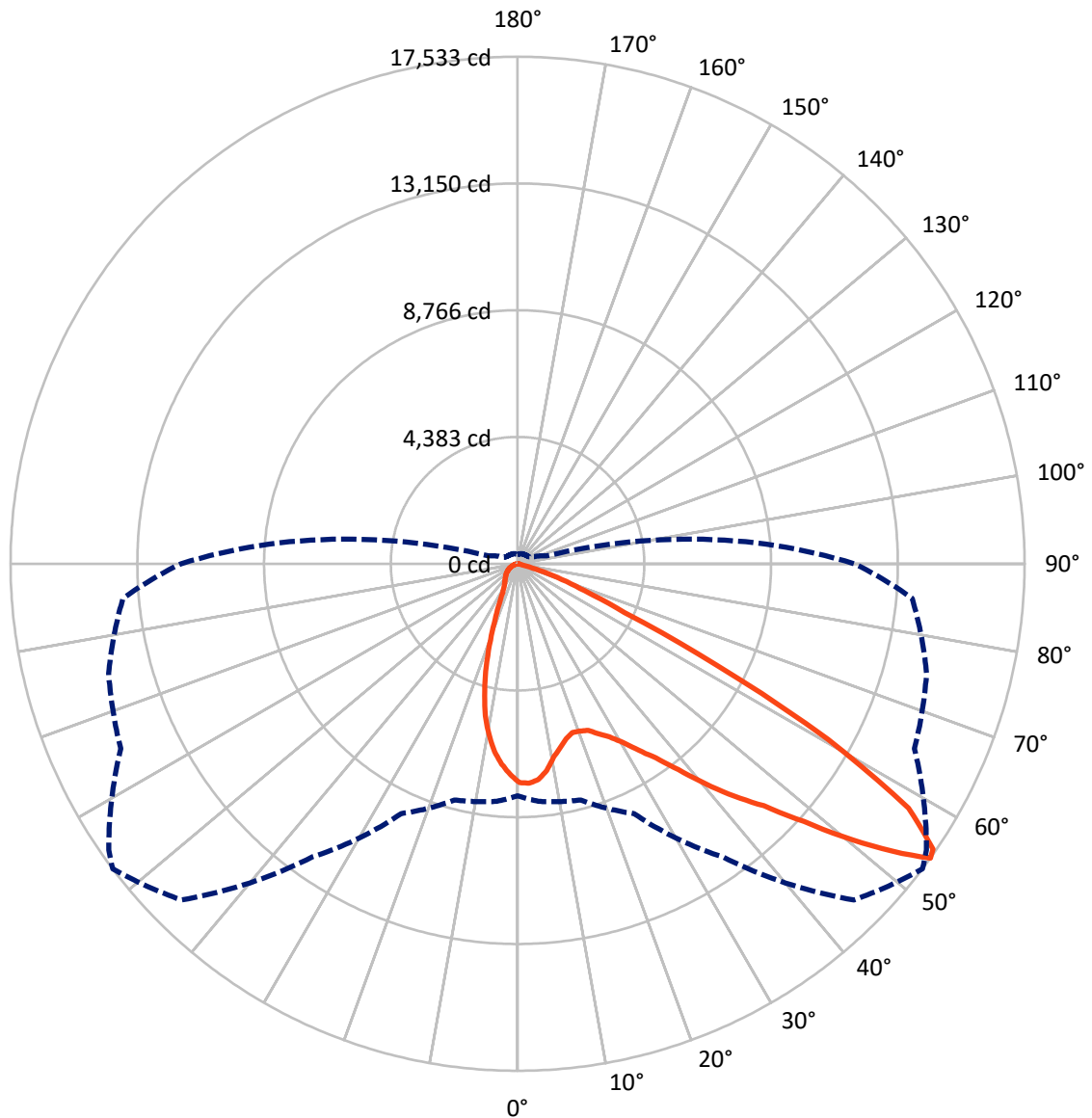
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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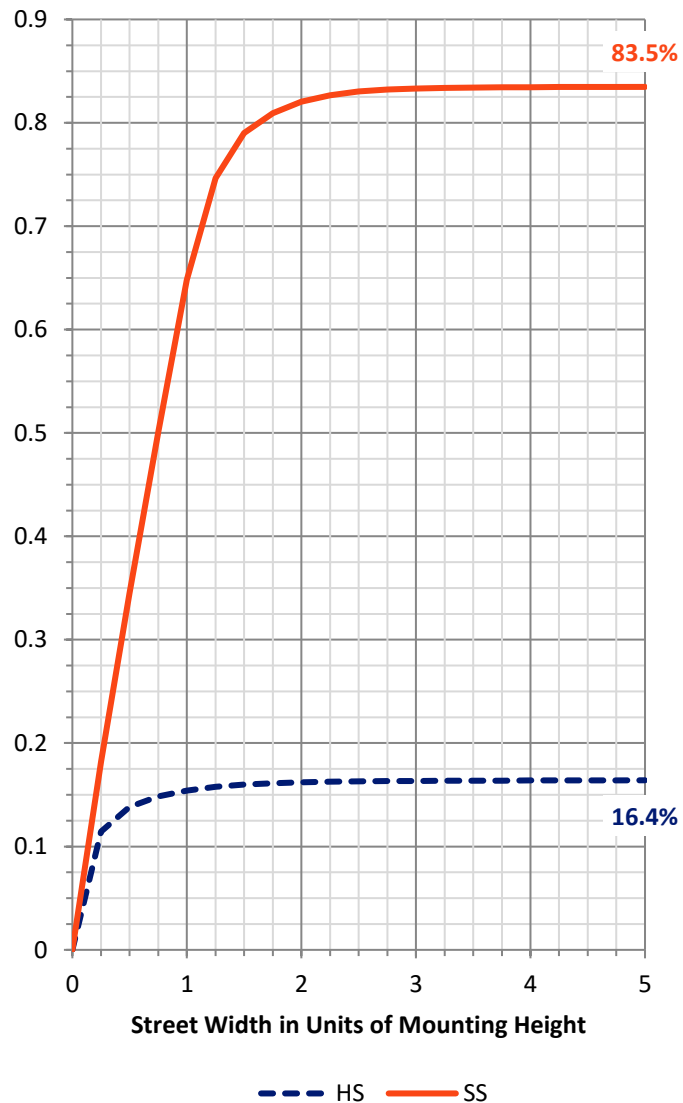
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3485.7   | 0.0    | 3485.7  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 17582.2  | 0.0    | 17582.2 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 21068.0  | 0.0    | 21068.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 649.3   | 3.1       |
| 10°-20°   | 1488.5  | 7.1       |
| 20°-30°   | 2115.5  | 10.0      |
| 30°-40°   | 3264.8  | 15.5      |
| 40°-50°   | 5118.9  | 24.3      |
| 50°-60°   | 5946.3  | 28.2      |
| 60°-70°   | 2246.9  | 10.7      |
| 70°-80°   | 213.6   | 1.0       |
| 80°-90°   | 24.0    | 0.1       |
| 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°    | 21068.0 | 100.0     |
| 0°-180°   | 21068.0 | 100.0     |

**Coefficient of Utilization**

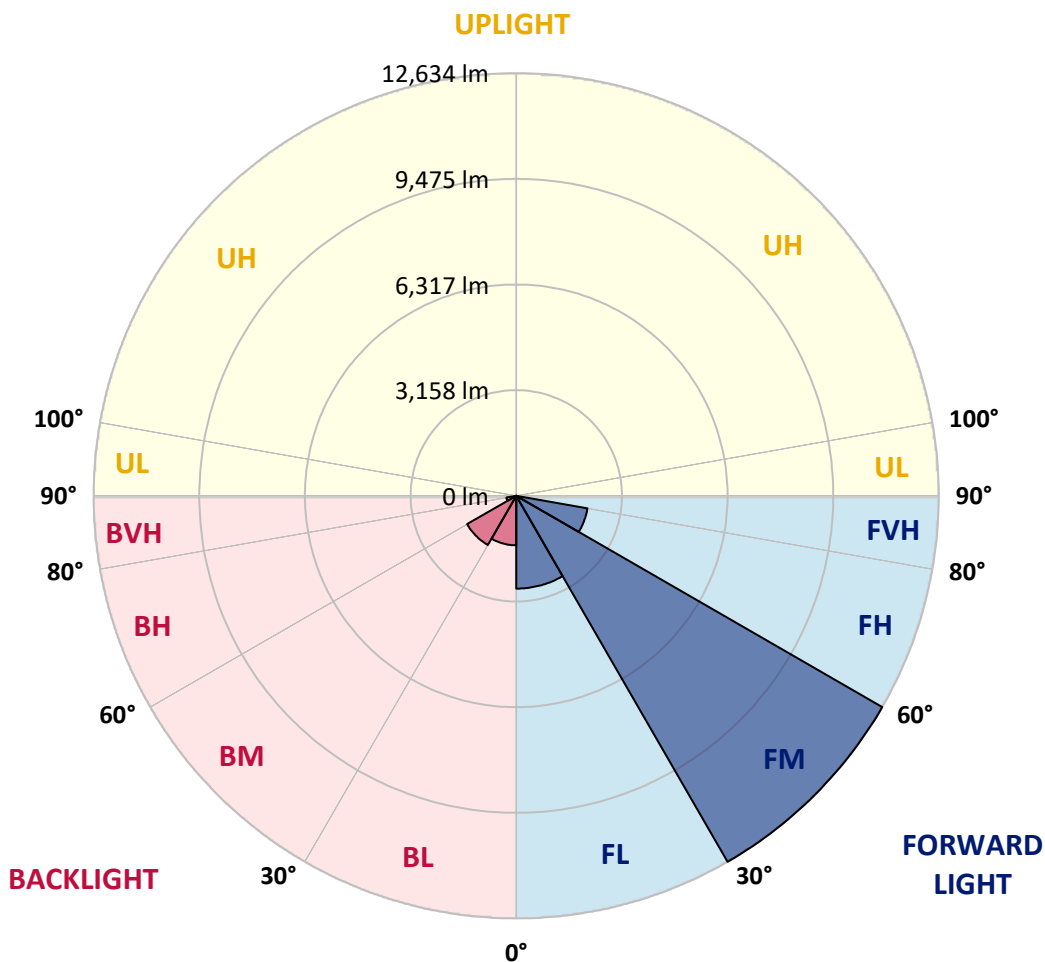


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2774.1  | 13.2      |                         |      |         |
| FM (30°-60°)   | 12633.8 | 60.0      |                         |      |         |
| FH (60°-80°)   | 2161.9  | 10.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 12.4    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1479.2  | 7.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1696.3  | 8.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 298.6   | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 11.6    | 0.1       |                         |      | 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°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7567.3  | 7567.3  | 7567.3  | 7567.3  | 7567.3  | 7567.3  | 7567.3  | 7567.3  | 7567.3  | 7567.3  | 7567.3  |
| 2.5°  | 7528.0  | 7461.3  | 7528.0  | 7535.9  | 7583.0  | 7626.1  | 7598.7  | 7661.5  | 7626.1  | 7586.9  | 7575.1  |
| 5°    | 6919.7  | 7009.9  | 7013.9  | 7155.2  | 7123.8  | 7382.8  | 7496.6  | 7465.2  | 7657.5  | 7645.8  | 7618.3  |
| 7.5°  | 6374.1  | 6338.8  | 6385.9  | 6550.7  | 6758.7  | 7057.0  | 7221.9  | 7218.0  | 7492.7  | 7688.9  | 7669.3  |
| 10°   | 5867.8  | 5863.8  | 5962.0  | 6091.5  | 6268.1  | 6582.1  | 6809.8  | 6923.6  | 7351.4  | 7649.7  | 7692.9  |
| 12.5° | 5526.3  | 5510.6  | 5616.6  | 5722.6  | 6001.2  | 6244.6  | 6535.0  | 6590.0  | 7080.6  | 7512.3  | 7583.0  |
| 15°   | 5302.6  | 5337.9  | 5345.8  | 5549.9  | 5726.5  | 6048.3  | 6276.0  | 6389.8  | 6955.0  | 7402.4  | 7673.2  |
| 17.5° | 5263.3  | 5310.4  | 5314.4  | 5483.1  | 5671.5  | 5942.3  | 6142.5  | 6295.6  | 6849.0  | 7457.4  | 7677.2  |
| 20°   | 5341.8  | 5314.4  | 5337.9  | 5443.9  | 5628.4  | 5887.4  | 6177.8  | 6228.9  | 6813.7  | 7484.8  | 7720.3  |
| 22.5° | 5565.6  | 5557.7  | 5498.8  | 5585.2  | 5714.7  | 5985.5  | 6260.3  | 6338.8  | 6915.7  | 7626.1  | 7755.7  |
| 25°   | 5812.8  | 5856.0  | 5801.1  | 5789.3  | 5879.5  | 6146.4  | 6511.5  | 6613.5  | 7257.2  | 7881.3  | 7865.6  |
| 27.5° | 6276.0  | 6232.8  | 6232.8  | 6177.8  | 6154.3  | 6283.8  | 6782.3  | 6951.1  | 7637.9  | 8211.0  | 7991.2  |
| 30°   | 6719.5  | 6766.6  | 6731.3  | 6750.9  | 6593.9  | 6582.1  | 7166.9  | 7374.9  | 8313.0  | 8713.4  | 8258.1  |
| 32.5° | 7422.0  | 7359.2  | 7418.1  | 7367.1  | 7159.1  | 6947.1  | 7688.9  | 7904.8  | 9129.4  | 9290.3  | 8658.4  |
| 35°   | 8006.9  | 7979.4  | 8230.6  | 8222.7  | 7885.2  | 7677.2  | 8242.4  | 8564.2  | 9698.5  | 9981.1  | 9129.4  |
| 37.5° | 8838.9  | 8787.9  | 9074.4  | 9211.8  | 8909.6  | 8599.5  | 9035.2  | 9408.1  | 10228.4 | 10534.5 | 9612.2  |
| 40°   | 9694.6  | 9824.1  | 10208.8 | 10436.4 | 10114.6 | 9702.4  | 10004.7 | 10118.5 | 10581.6 | 10895.6 | 9941.9  |
| 42.5° | 10777.9 | 10966.3 | 11358.8 | 11555.0 | 11527.5 | 11080.1 | 10989.8 | 10985.9 | 10836.7 | 10793.6 | 10185.2 |
| 45°   | 11818.0 | 11747.3 | 12351.8 | 12779.6 | 13125.0 | 12995.5 | 11939.6 | 11821.9 | 11241.0 | 10946.6 | 10248.0 |
| 47.5° | 12273.3 | 12249.7 | 12661.8 | 13423.3 | 14600.7 | 14761.7 | 13321.2 | 12865.9 | 11923.9 | 11590.3 | 10589.5 |
| 50°   | 11684.5 | 11806.2 | 12214.4 | 13058.3 | 14863.7 | 16092.2 | 15016.8 | 14404.5 | 12720.7 | 12375.3 | 11398.0 |
| 52.5° | 9761.3  | 9843.7  | 10232.3 | 11303.8 | 13968.8 | 16877.2 | 16641.7 | 16288.5 | 14184.7 | 13611.7 | 12807.1 |
| 54°   | 8026.5  | 8246.3  | 8458.2  | 9533.7  | 12375.3 | 16441.5 | 17532.7 | 17261.9 | 15138.5 | 14640.0 | 13694.1 |
| 55°   | 6990.3  | 7119.8  | 7272.9  | 8344.4  | 11272.4 | 15703.7 | 17430.6 | 17454.2 | 15778.2 | 14961.8 | 14290.7 |
| 57.5° | 5106.3  | 5196.6  | 5039.6  | 5514.5  | 7740.0  | 12752.1 | 15943.1 | 16578.9 | 16641.7 | 15444.6 | 14655.7 |
| 60°   | 3901.4  | 3940.6  | 3764.0  | 3838.6  | 4812.0  | 8752.6  | 12332.1 | 13097.5 | 15012.9 | 13497.8 | 12414.6 |
| 62.5° | 3026.1  | 3034.0  | 3030.0  | 3159.6  | 3316.6  | 5149.5  | 7712.5  | 8391.5  | 10350.0 | 9584.7  | 8430.8  |
| 65°   | 2229.4  | 2194.0  | 2256.8  | 2649.3  | 2829.9  | 3238.1  | 4062.3  | 4556.8  | 5624.4  | 4749.2  | 3395.1  |
| 67.5° | 1444.4  | 1456.2  | 1518.9  | 1970.3  | 2425.6  | 2484.5  | 2500.2  | 2460.9  | 2464.9  | 1358.0  | 851.7   |
| 70°   | 867.4   | 887.0   | 867.4   | 1114.7  | 1734.8  | 1781.9  | 1628.8  | 1589.6  | 1240.3  | 321.8   | 317.9   |
| 72.5° | 514.2   | 486.7   | 435.7   | 478.8   | 722.2   | 863.5   | 777.1   | 773.2   | 486.7   | 188.4   | 188.4   |
| 75°   | 215.9   | 196.2   | 160.9   | 145.2   | 192.3   | 184.5   | 184.5   | 164.8   | 129.5   | 125.6   | 117.7   |
| 77.5° | 43.2    | 43.2    | 31.4    | 35.3    | 47.1    | 54.9    | 66.7    | 66.7    | 78.5    | 78.5    | 74.6    |
| 80°   | 0.0     | 3.9     | 11.8    | 23.5    | 35.3    | 51.0    | 58.9    | 58.9    | 66.7    | 66.7    | 54.9    |
| 82.5° | 0.0     | 3.9     | 11.8    | 23.5    | 31.4    | 47.1    | 58.9    | 58.9    | 66.7    | 70.6    | 58.9    |
| 85°   | 0.0     | 3.9     | 11.8    | 19.6    | 31.4    | 39.2    | 39.2    | 35.3    | 27.5    | 23.5    | 15.7    |
| 87.5° | 0.0     | 0.0     | 3.9     | 7.8     | 3.9     | 7.8     | 7.8     | 7.8     | 7.8     | 7.8     | 7.8     |
| 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°    | 7567.3  | 7567.3 | 7567.3 | 7567.3 | 7567.3 | 7567.3 | 7567.3 | 7567.3 | 7567.3 | 7567.3 | 7567.3 |
| 2.5°  | 7602.6  | 7598.7 | 7504.5 | 7351.4 | 7316.1 | 7186.6 | 7170.9 | 7092.4 | 7135.5 | 6990.3 | 6974.6 |
| 5°    | 7539.8  | 7492.7 | 7378.9 | 7280.8 | 6994.2 | 6790.1 | 6629.2 | 6433.0 | 6319.1 | 6338.8 | 6264.2 |
| 7.5°  | 7630.1  | 7508.4 | 7308.2 | 6966.8 | 6617.4 | 6260.3 | 6067.9 | 5667.6 | 5522.4 | 5306.5 | 5275.1 |
| 10°   | 7535.9  | 7445.6 | 7135.5 | 6570.3 | 6087.6 | 5573.4 | 5122.0 | 4678.5 | 4341.0 | 4195.8 | 4164.4 |
| 12.5° | 7528.0  | 7371.0 | 6852.9 | 6224.9 | 5526.3 | 4788.4 | 4133.0 | 3579.5 | 3245.9 | 3057.5 | 3014.3 |
| 15°   | 7406.3  | 7218.0 | 6535.0 | 5691.2 | 4725.6 | 3807.2 | 3092.8 | 2559.1 | 2303.9 | 2194.0 | 2225.4 |
| 17.5° | 7418.1  | 7135.5 | 6217.1 | 5126.0 | 3936.7 | 2794.6 | 2111.6 | 1836.9 | 1770.1 | 1797.6 | 1797.6 |
| 20°   | 7406.3  | 6951.1 | 5832.5 | 4474.4 | 3014.3 | 1938.9 | 1550.3 | 1452.2 | 1495.4 | 1581.7 | 1562.1 |
| 22.5° | 7343.5  | 6864.7 | 5479.2 | 3787.6 | 2217.6 | 1436.5 | 1244.2 | 1248.1 | 1314.9 | 1420.8 | 1444.4 |
| 25°   | 7390.6  | 6672.4 | 5031.8 | 3092.8 | 1617.1 | 1146.1 | 1079.4 | 1106.8 | 1177.5 | 1256.0 | 1271.7 |
| 27.5° | 7355.3  | 6535.0 | 4564.7 | 2402.1 | 1181.4 | 985.2  | 981.2  | 1012.6 | 1044.0 | 1102.9 | 1102.9 |
| 30°   | 7394.6  | 6409.4 | 4105.5 | 1785.8 | 973.4  | 902.7  | 887.0  | 910.6  | 942.0  | 953.8  | 949.8  |
| 32.5° | 7539.8  | 6315.2 | 3575.6 | 1334.5 | 859.6  | 824.2  | 824.2  | 824.2  | 820.3  | 836.0  | 839.9  |
| 35°   | 7857.7  | 6330.9 | 3108.5 | 1032.3 | 785.0  | 757.5  | 745.7  | 730.0  | 722.2  | 730.0  | 734.0  |
| 37.5° | 8203.1  | 6323.1 | 2625.8 | 879.2  | 730.0  | 706.5  | 679.0  | 655.5  | 651.5  | 659.4  | 647.6  |
| 40°   | 8356.2  | 6397.6 | 2178.3 | 788.9  | 679.0  | 651.5  | 608.4  | 588.7  | 592.7  | 600.5  | 592.7  |
| 42.5° | 8564.2  | 6421.2 | 1887.9 | 718.3  | 631.9  | 588.7  | 561.3  | 537.7  | 533.8  | 545.6  | 541.6  |
| 45°   | 8560.3  | 6287.7 | 1581.7 | 679.0  | 588.7  | 541.6  | 506.3  | 486.7  | 486.7  | 494.5  | 498.5  |
| 47.5° | 8811.5  | 6268.1 | 1358.0 | 643.7  | 557.3  | 510.2  | 467.1  | 451.4  | 447.4  | 447.4  | 439.6  |
| 50°   | 9396.3  | 6542.9 | 1185.3 | 604.4  | 518.1  | 474.9  | 439.6  | 420.0  | 404.3  | 396.4  | 392.5  |
| 52.5° | 10538.4 | 7398.5 | 1051.9 | 557.3  | 474.9  | 439.6  | 408.2  | 392.5  | 372.9  | 353.2  | 349.3  |
| 54°   | 11645.3 | 8281.6 | 1044.0 | 518.1  | 439.6  | 416.0  | 388.6  | 380.7  | 357.2  | 329.7  | 321.8  |
| 55°   | 12143.7 | 8795.8 | 1071.5 | 486.7  | 416.0  | 400.3  | 376.8  | 368.9  | 345.4  | 314.0  | 310.1  |
| 57.5° | 12555.9 | 8995.9 | 1055.8 | 404.3  | 376.8  | 372.9  | 353.2  | 341.5  | 314.0  | 270.8  | 263.0  |
| 60°   | 10106.7 | 6801.9 | 757.5  | 357.2  | 345.4  | 337.5  | 321.8  | 314.0  | 278.7  | 231.6  | 227.6  |
| 62.5° | 6385.9  | 3913.2 | 482.8  | 314.0  | 302.2  | 290.4  | 270.8  | 263.0  | 231.6  | 184.5  | 172.7  |
| 65°   | 2720.0  | 1621.0 | 325.8  | 278.7  | 259.0  | 239.4  | 223.7  | 211.9  | 184.5  | 137.4  | 133.4  |
| 67.5° | 706.5   | 577.0  | 270.8  | 243.3  | 215.9  | 188.4  | 176.6  | 157.0  | 125.6  | 94.2   | 90.3   |
| 70°   | 317.9   | 290.4  | 227.6  | 204.1  | 172.7  | 145.2  | 129.5  | 109.9  | 82.4   | 62.8   | 58.9   |
| 72.5° | 188.4   | 184.5  | 172.7  | 153.1  | 129.5  | 109.9  | 94.2   | 74.6   | 54.9   | 35.3   | 35.3   |
| 75°   | 117.7   | 113.8  | 117.7  | 106.0  | 90.3   | 82.4   | 70.6   | 51.0   | 31.4   | 15.7   | 15.7   |
| 77.5° | 70.6    | 70.6   | 70.6   | 66.7   | 62.8   | 62.8   | 51.0   | 31.4   | 15.7   | 3.9    | 3.9    |
| 80°   | 54.9    | 54.9   | 58.9   | 54.9   | 54.9   | 54.9   | 43.2   | 23.5   | 7.8    | 0.0    | 0.0    |
| 82.5° | 54.9    | 58.9   | 66.7   | 62.8   | 54.9   | 47.1   | 39.2   | 23.5   | 7.8    | 0.0    | 0.0    |
| 85°   | 15.7    | 11.8   | 19.6   | 27.5   | 39.2   | 35.3   | 27.5   | 19.6   | 7.8    | 0.0    | 0.0    |
| 87.5° | 7.8     | 7.8    | 7.8    | 7.8    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 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)