

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642619

Luminaire Tested: GWS-SA6D-730-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-730-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

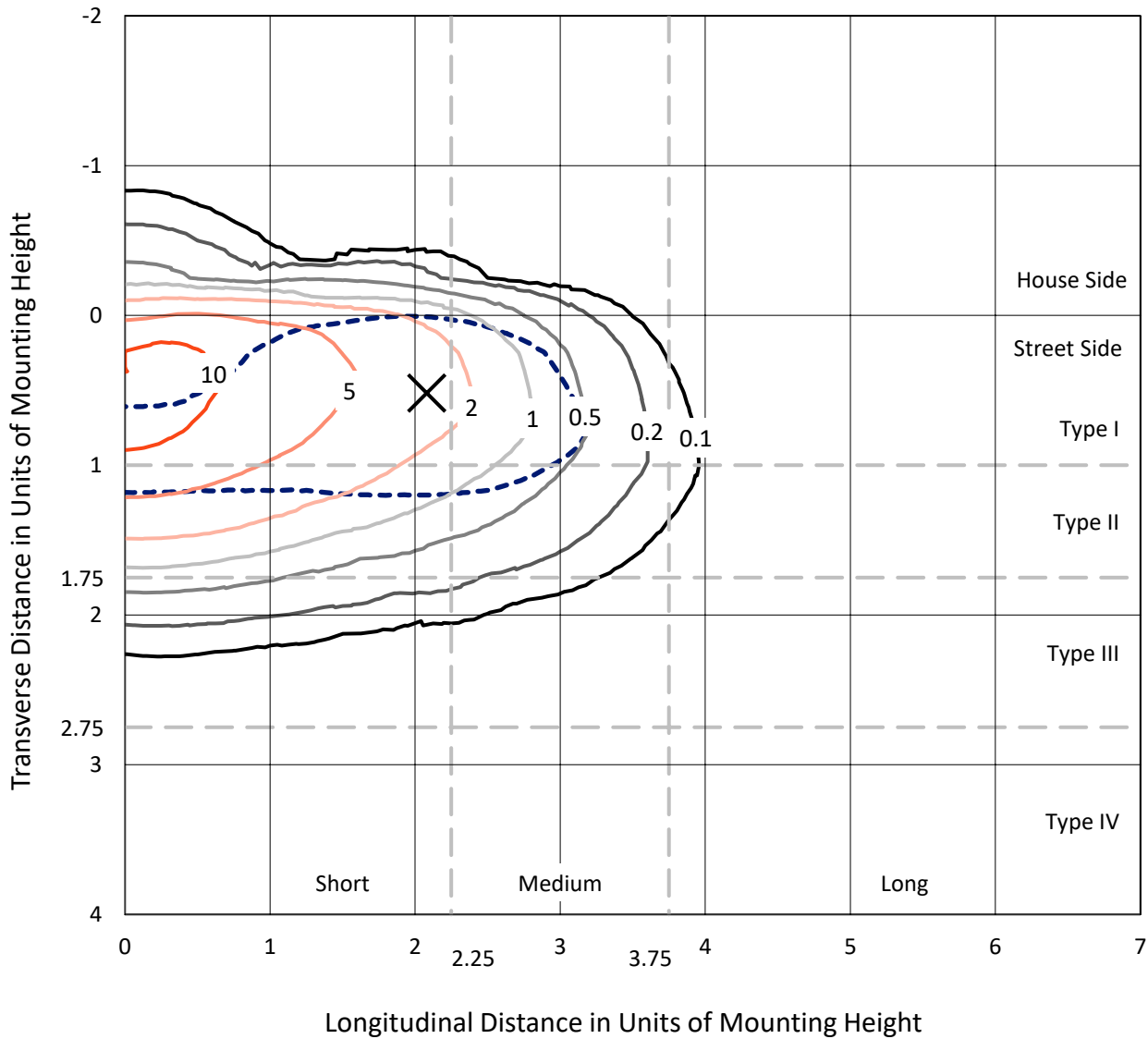
Lumens per Lamp: N/A  
Luminaire Lumens: 26307.2 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

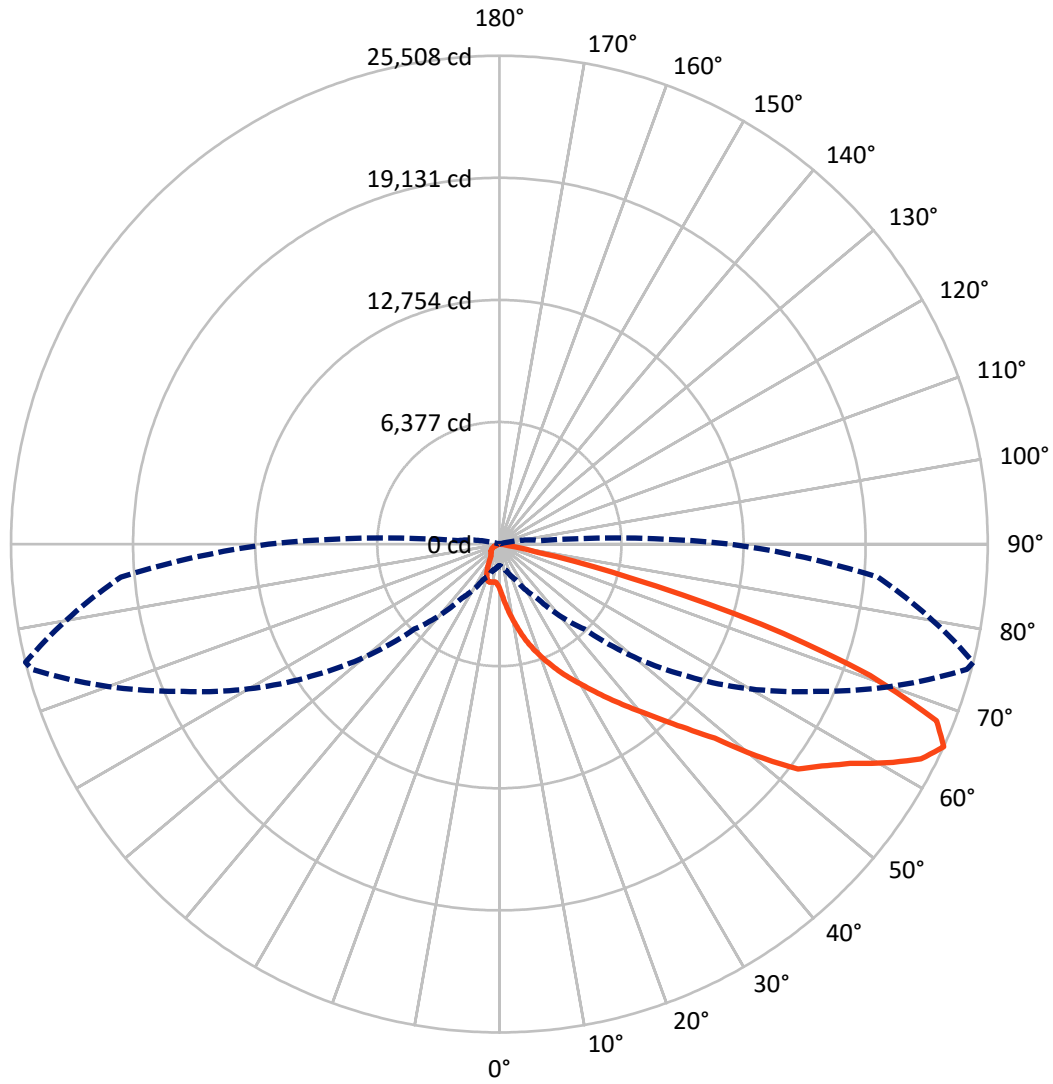
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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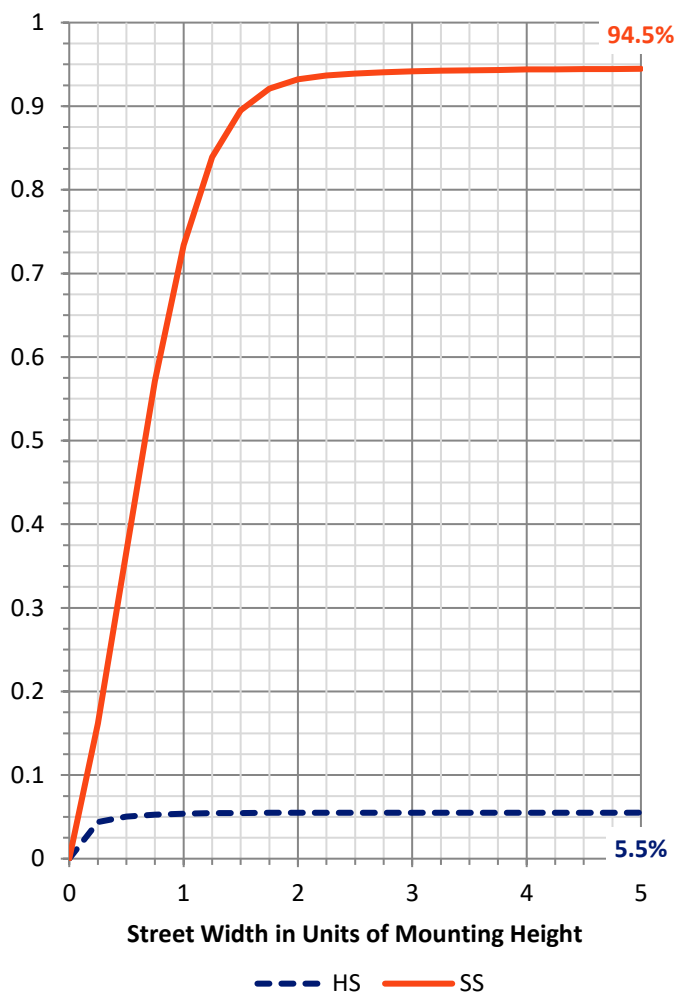
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1454.6   | 0.0    | 1454.6  |
|                    | % Fixture | 5.5      | 0.0    | 5.5     |
| <b>Street Side</b> | Lumens    | 24852.6  | 0.0    | 24852.6 |
|                    | % Fixture | 94.5     | 0.0    | 94.5    |
| <b>Total</b>       | Lumens    | 26307.2  | 0.0    | 26307.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 283.3   | 1.1       |
| 10°-20°   | 1075.2  | 4.1       |
| 20°-30°   | 2193.5  | 8.3       |
| 30°-40°   | 3901.2  | 14.8      |
| 40°-50°   | 5767.0  | 21.9      |
| 50°-60°   | 6602.7  | 25.1      |
| 60°-70°   | 5037.6  | 19.1      |
| 70°-80°   | 1411.1  | 5.4       |
| 80°-90°   | 35.5    | 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°    | 26307.2 | 100.0     |
| 0°-180°   | 26307.2 | 100.0     |

**Coefficient of Utilization**



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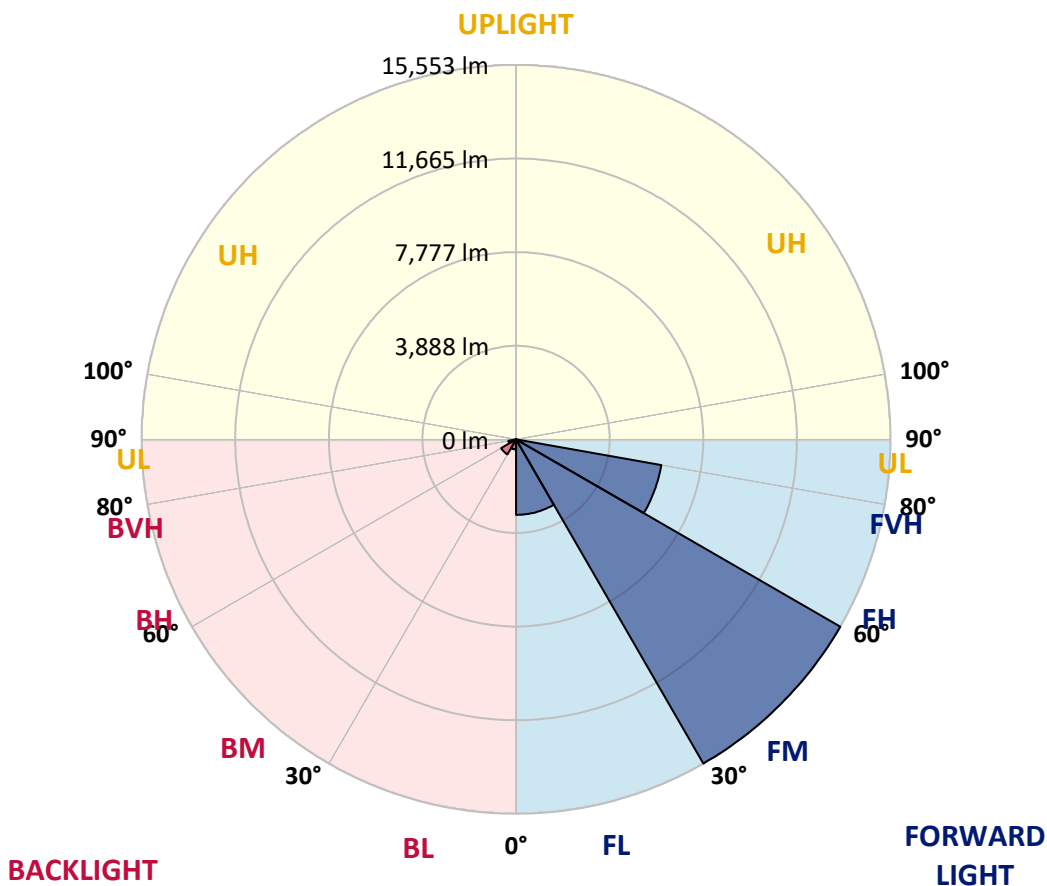
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3136.9  | 11.9      |                         |      |         |
| FM (30°-60°)   | 15553.2 | 59.1      |                         |      |         |
| FH (60°-80°)   | 6128.9  | 23.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 33.5    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 415.1   | 1.6       | B1/500                  |      |         |
| BM (30°-60°)   | 717.7   | 2.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 319.8   | 1.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.1     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2329.1  | 2329.1  | 2329.1  | 2329.1  | 2329.1  | 2329.1  | 2329.1  | 2329.1  | 2329.1  | 2329.1  | 2329.1  |
| 2.5°  | 3589.6  | 3643.4  | 3601.3  | 3531.1  | 3395.5  | 3264.5  | 3096.2  | 2864.7  | 2679.9  | 2656.5  | 2483.5  |
| 5°    | 4847.7  | 4843.0  | 4751.8  | 4660.6  | 4518.0  | 4293.5  | 3954.4  | 3524.1  | 3110.2  | 3075.1  | 2686.9  |
| 7.5°  | 5596.0  | 5603.0  | 5551.6  | 5481.4  | 5341.1  | 5109.6  | 4756.5  | 4237.4  | 3631.7  | 3561.5  | 2965.2  |
| 10°   | 6225.1  | 6222.8  | 6185.3  | 6152.6  | 6026.3  | 5872.0  | 5493.1  | 4922.5  | 4192.9  | 4083.0  | 3276.2  |
| 12.5° | 6697.5  | 6713.8  | 6732.5  | 6765.3  | 6711.5  | 6559.5  | 6201.7  | 5579.7  | 4761.2  | 4639.6  | 3631.7  |
| 15°   | 7071.6  | 7076.3  | 7146.5  | 7272.7  | 7317.2  | 7237.7  | 6912.6  | 6215.7  | 5322.4  | 5217.2  | 4040.9  |
| 17.5° | 7183.9  | 7193.2  | 7312.5  | 7544.0  | 7777.9  | 7822.3  | 7576.7  | 6856.5  | 5874.3  | 5762.1  | 4438.5  |
| 20°   | 7420.1  | 7441.1  | 7530.0  | 7733.4  | 8028.1  | 8266.6  | 8170.7  | 7504.2  | 6426.2  | 6278.9  | 4845.4  |
| 22.5° | 8163.7  | 8175.4  | 8145.0  | 8170.7  | 8322.7  | 8598.7  | 8657.1  | 8131.0  | 6992.1  | 6835.4  | 5285.0  |
| 25°   | 9442.9  | 9447.5  | 9234.7  | 9033.6  | 8919.0  | 8970.5  | 9099.1  | 8708.6  | 7553.4  | 7399.0  | 5694.2  |
| 27.5° | 10771.1 | 10787.5 | 10532.6 | 10191.2 | 9781.9  | 9548.1  | 9510.7  | 9237.1  | 8119.3  | 7948.6  | 6098.8  |
| 30°   | 12022.2 | 12022.2 | 11753.3 | 11337.1 | 10789.8 | 10333.8 | 10064.9 | 9770.3  | 8724.9  | 8537.9  | 6512.7  |
| 32.5° | 13147.1 | 13137.7 | 12793.9 | 12342.6 | 11802.4 | 11302.0 | 10736.1 | 10326.8 | 9398.4  | 9190.3  | 6989.8  |
| 35°   | 14075.4 | 14052.1 | 13661.5 | 13228.9 | 12651.3 | 12279.5 | 11648.1 | 10925.5 | 10128.0 | 9919.9  | 7480.9  |
| 37.5° | 14777.0 | 14751.3 | 14393.5 | 13935.1 | 13399.6 | 13158.7 | 12630.2 | 11643.4 | 10897.4 | 10708.0 | 8025.7  |
| 40°   | 15158.2 | 15106.7 | 14858.8 | 14517.4 | 14068.4 | 13858.0 | 13638.1 | 12534.4 | 11802.4 | 11566.2 | 8668.8  |
| 42.5° | 15270.4 | 15209.6 | 15045.9 | 14886.9 | 14615.6 | 14449.6 | 14685.8 | 13539.9 | 12796.3 | 12592.8 | 9403.1  |
| 45°   | 14938.3 | 14903.3 | 14889.2 | 15003.8 | 15052.9 | 15099.7 | 15682.0 | 14653.0 | 13893.0 | 13738.7 | 10326.8 |
| 47.5° | 14138.6 | 14129.2 | 14253.2 | 14730.2 | 15249.4 | 15742.8 | 16764.7 | 16025.7 | 15314.8 | 15148.8 | 11617.7 |
| 50°   | 12660.6 | 12756.5 | 13102.6 | 13939.8 | 14978.1 | 16107.6 | 17777.3 | 17929.3 | 17615.9 | 17372.7 | 13301.4 |
| 52.5° | 10350.2 | 10534.9 | 11311.3 | 12583.5 | 14075.4 | 16004.7 | 18245.0 | 19454.0 | 19774.4 | 19521.8 | 14508.1 |
| 55°   | 8121.6  | 8294.7  | 8986.9  | 10600.4 | 12590.5 | 15221.3 | 18266.0 | 19980.2 | 20679.4 | 20445.5 | 15324.2 |
| 57.5° | 6049.7  | 6208.7  | 6837.8  | 8381.2  | 10570.0 | 13680.2 | 17765.6 | 20272.5 | 21752.7 | 21603.1 | 16612.7 |
| 60°   | 3954.4  | 4111.1  | 4679.3  | 6028.7  | 8198.8  | 11435.3 | 16533.2 | 20211.7 | 23214.3 | 23200.3 | 18195.9 |
| 62.5° | 2193.5  | 2317.5  | 2729.0  | 3781.4  | 5722.3  | 8855.9  | 14596.9 | 19601.3 | 24629.1 | 24718.0 | 19500.8 |
| 65°   | 1122.5  | 1202.0  | 1452.2  | 2078.9  | 3463.3  | 6278.9  | 12050.3 | 18202.9 | 25283.9 | 25508.4 | 19844.5 |
| 67.5° | 734.3   | 760.0   | 820.8   | 1080.4  | 1854.4  | 3949.7  | 9068.7  | 15960.3 | 24362.5 | 24624.4 | 18691.6 |
| 70°   | 596.3   | 617.4   | 652.4   | 720.3   | 956.4   | 2097.6  | 5956.2  | 12747.2 | 20356.6 | 20534.4 | 14884.6 |
| 72.5° | 437.3   | 465.4   | 533.2   | 577.6   | 689.9   | 1150.5  | 3098.5  | 8367.2  | 13979.6 | 14292.9 | 9354.0  |
| 75°   | 322.7   | 339.1   | 395.2   | 456.0   | 563.6   | 727.3   | 1185.6  | 4398.7  | 7219.0  | 7036.5  | 3928.7  |
| 77.5° | 194.1   | 205.8   | 252.6   | 292.3   | 402.2   | 453.7   | 413.9   | 1625.3  | 2195.9  | 2064.9  | 949.4   |
| 80°   | 95.9    | 107.6   | 166.0   | 219.8   | 257.2   | 182.4   | 173.0   | 453.7   | 488.7   | 488.7   | 238.5   |
| 82.5° | 32.7    | 42.1    | 88.9    | 145.0   | 126.3   | 70.2    | 81.8    | 116.9   | 131.0   | 138.0   | 70.2    |
| 85°   | 0.0     | 0.0     | 21.0    | 42.1    | 18.7    | 9.4     | 21.0    | 25.7    | 32.7    | 35.1    | 23.4    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 2.3     | 7.0     | 9.4     | 9.4     |
| 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°    | 2329.1  | 2329.1 | 2329.1 | 2329.1 | 2329.1 | 2329.1 | 2329.1 | 2329.1 | 2329.1 | 2329.1 | 2329.1 |
| 2.5°  | 2389.9  | 2280.0 | 2114.0 | 1964.3 | 1849.8 | 1742.2 | 1660.3 | 1594.9 | 1583.2 | 1545.7 | 1550.4 |
| 5°    | 2497.5  | 2298.7 | 1992.4 | 1756.2 | 1590.2 | 1477.9 | 1384.4 | 1314.2 | 1283.8 | 1253.4 | 1230.1 |
| 7.5°  | 2663.6  | 2375.9 | 1945.6 | 1658.0 | 1463.9 | 1290.9 | 1145.9 | 1028.9 | 972.8  | 937.7  | 914.4  |
| 10°   | 2867.0  | 2483.5 | 1948.0 | 1599.5 | 1311.9 | 1047.6 | 848.9  | 720.3  | 659.5  | 640.7  | 638.4  |
| 12.5° | 3110.2  | 2619.1 | 1966.7 | 1503.7 | 1092.1 | 778.7  | 629.1  | 570.6  | 551.9  | 535.5  | 535.5  |
| 15°   | 3367.4  | 2771.1 | 1966.7 | 1328.3 | 832.5  | 608.0  | 544.9  | 507.5  | 484.1  | 474.7  | 470.0  |
| 17.5° | 3638.7  | 2913.8 | 1919.9 | 1087.4 | 638.4  | 535.5  | 484.1  | 449.0  | 430.3  | 416.3  | 411.6  |
| 20°   | 3928.7  | 3049.4 | 1803.0 | 832.5  | 547.2  | 479.4  | 430.3  | 395.2  | 376.5  | 362.5  | 362.5  |
| 22.5° | 4223.3  | 3175.7 | 1613.6 | 640.7  | 484.1  | 425.6  | 378.8  | 346.1  | 327.4  | 313.4  | 313.4  |
| 25°   | 4496.9  | 3259.9 | 1370.4 | 528.5  | 437.3  | 378.8  | 336.7  | 304.0  | 283.0  | 273.6  | 268.9  |
| 27.5° | 4751.8  | 3313.7 | 1101.4 | 465.4  | 392.9  | 339.1  | 294.7  | 264.3  | 247.9  | 240.9  | 236.2  |
| 30°   | 5016.1  | 3327.7 | 841.9  | 423.3  | 355.5  | 299.3  | 257.2  | 233.9  | 219.8  | 210.5  | 210.5  |
| 32.5° | 5273.3  | 3311.3 | 643.1  | 388.2  | 322.7  | 264.3  | 229.2  | 208.1  | 196.4  | 189.4  | 187.1  |
| 35°   | 5535.2  | 3236.5 | 521.5  | 357.8  | 290.0  | 231.5  | 203.4  | 187.1  | 180.1  | 170.7  | 170.7  |
| 37.5° | 5820.5  | 3135.9 | 453.7  | 327.4  | 257.2  | 208.1  | 182.4  | 170.7  | 161.4  | 154.3  | 152.0  |
| 40°   | 6176.0  | 3019.0 | 416.3  | 301.7  | 226.8  | 187.1  | 163.7  | 152.0  | 145.0  | 138.0  | 135.6  |
| 42.5° | 6596.9  | 2904.4 | 397.5  | 273.6  | 203.4  | 166.0  | 147.3  | 133.3  | 126.3  | 116.9  | 114.6  |
| 45°   | 7193.2  | 2878.7 | 376.5  | 243.2  | 182.4  | 149.7  | 128.6  | 114.6  | 105.2  | 98.2   | 95.9   |
| 47.5° | 8152.0  | 2951.2 | 341.4  | 210.5  | 161.4  | 131.0  | 109.9  | 98.2   | 86.5   | 79.5   | 74.8   |
| 50°   | 9103.8  | 2932.5 | 306.3  | 182.4  | 142.6  | 112.2  | 93.5   | 81.8   | 70.2   | 63.1   | 60.8   |
| 52.5° | 9622.9  | 2843.6 | 273.6  | 161.4  | 123.9  | 95.9   | 79.5   | 65.5   | 58.5   | 51.4   | 49.1   |
| 55°   | 10093.0 | 2808.5 | 240.9  | 140.3  | 105.2  | 84.2   | 65.5   | 53.8   | 49.1   | 42.1   | 39.8   |
| 57.5° | 11014.3 | 2890.4 | 212.8  | 121.6  | 91.2   | 72.5   | 56.1   | 44.4   | 39.8   | 32.7   | 30.4   |
| 60°   | 11977.8 | 2899.7 | 182.4  | 105.2  | 79.5   | 60.8   | 44.4   | 35.1   | 30.4   | 23.4   | 21.0   |
| 62.5° | 12480.6 | 2663.6 | 149.7  | 88.9   | 65.5   | 51.4   | 37.4   | 28.1   | 23.4   | 14.0   | 14.0   |
| 65°   | 12059.6 | 2153.8 | 126.3  | 72.5   | 51.4   | 39.8   | 28.1   | 21.0   | 14.0   | 7.0    | 2.3    |
| 67.5° | 10672.9 | 1531.7 | 105.2  | 58.5   | 37.4   | 28.1   | 21.0   | 14.0   | 2.3    | 0.0    | 0.0    |
| 70°   | 7815.3  | 874.6  | 81.8   | 42.1   | 28.1   | 18.7   | 14.0   | 7.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 4803.3  | 467.7  | 60.8   | 28.1   | 21.0   | 14.0   | 11.7   | 4.7    | 0.0    | 0.0    | 0.0    |
| 75°   | 1821.7  | 224.5  | 37.4   | 18.7   | 16.4   | 11.7   | 7.0    | 2.3    | 0.0    | 0.0    | 0.0    |
| 77.5° | 493.4   | 109.9  | 21.0   | 14.0   | 11.7   | 7.0    | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 128.6   | 51.4   | 14.0   | 9.4    | 7.0    | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 44.4    | 23.4   | 7.0    | 7.0    | 4.7    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 18.7    | 9.4    | 4.7    | 4.7    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.0     | 2.3    | 2.3    | 2.3    | 2.3    | 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)