

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: P640947

Luminaire Tested: GWS-SA5E-830-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-830-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

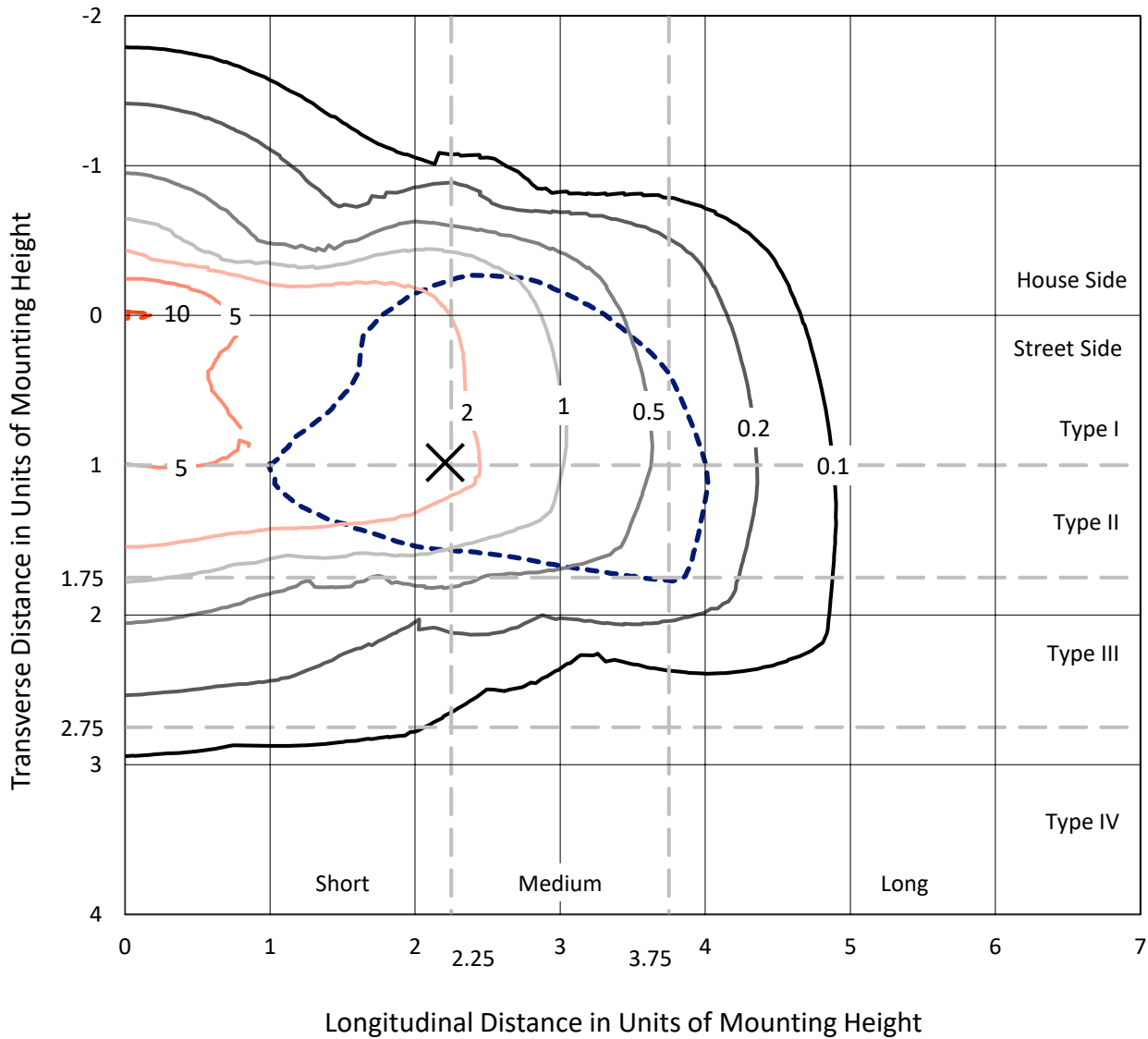
Lumens per Lamp: N/A  
Luminaire Lumens: 29305.5 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

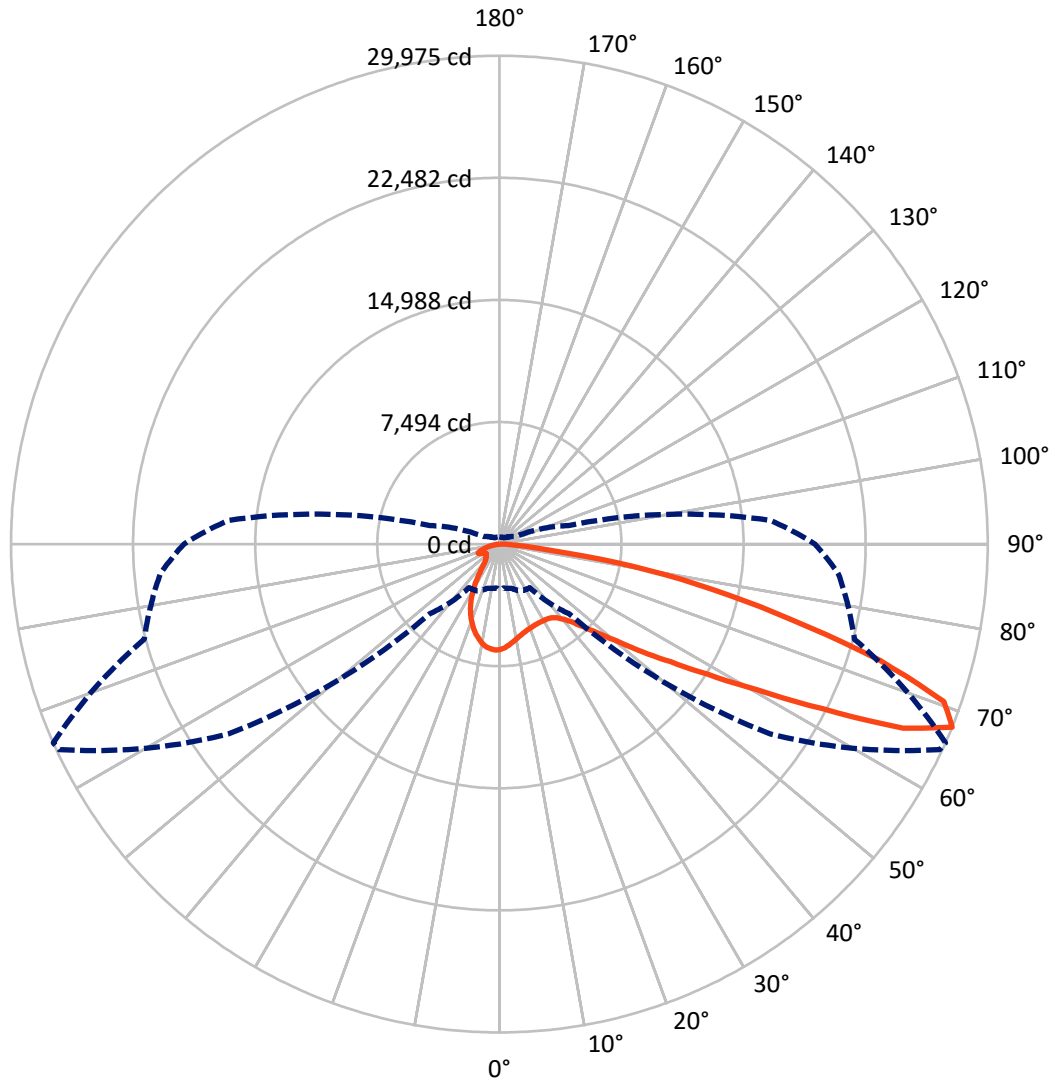
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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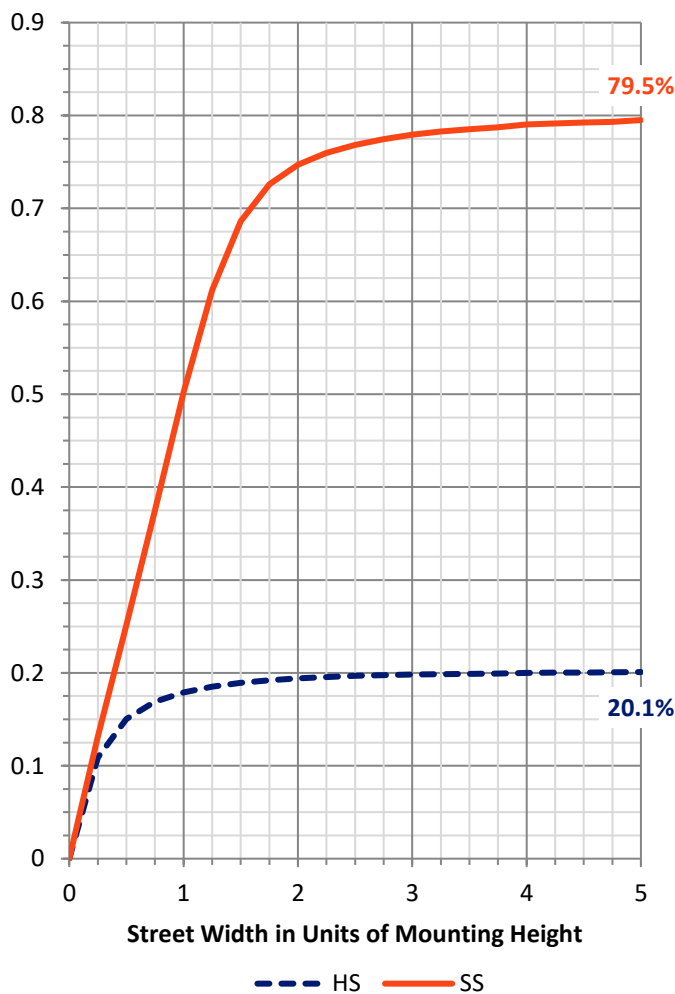
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5946.8   | 0.0    | 5946.8  |
|                    | % Fixture | 20.3     | 0.0    | 20.3    |
| <b>Street Side</b> | Lumens    | 23358.7  | 0.0    | 23358.7 |
|                    | % Fixture | 79.7     | 0.0    | 79.7    |
| <b>Total</b>       | Lumens    | 29305.5  | 0.0    | 29305.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 568.3   | 1.9       |
| 10°-20°   | 1396.7  | 4.8       |
| 20°-30°   | 1919.8  | 6.6       |
| 30°-40°   | 2624.7  | 9.0       |
| 40°-50°   | 3977.2  | 13.6      |
| 50°-60°   | 6182.6  | 21.1      |
| 60°-70°   | 7527.2  | 25.7      |
| 70°-80°   | 4585.2  | 15.6      |
| 80°-90°   | 523.7   | 1.8       |
| 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°    | 29305.5 | 100.0     |
| 0°-180°   | 29305.5 | 100.0     |

**Coefficient of Utilization**



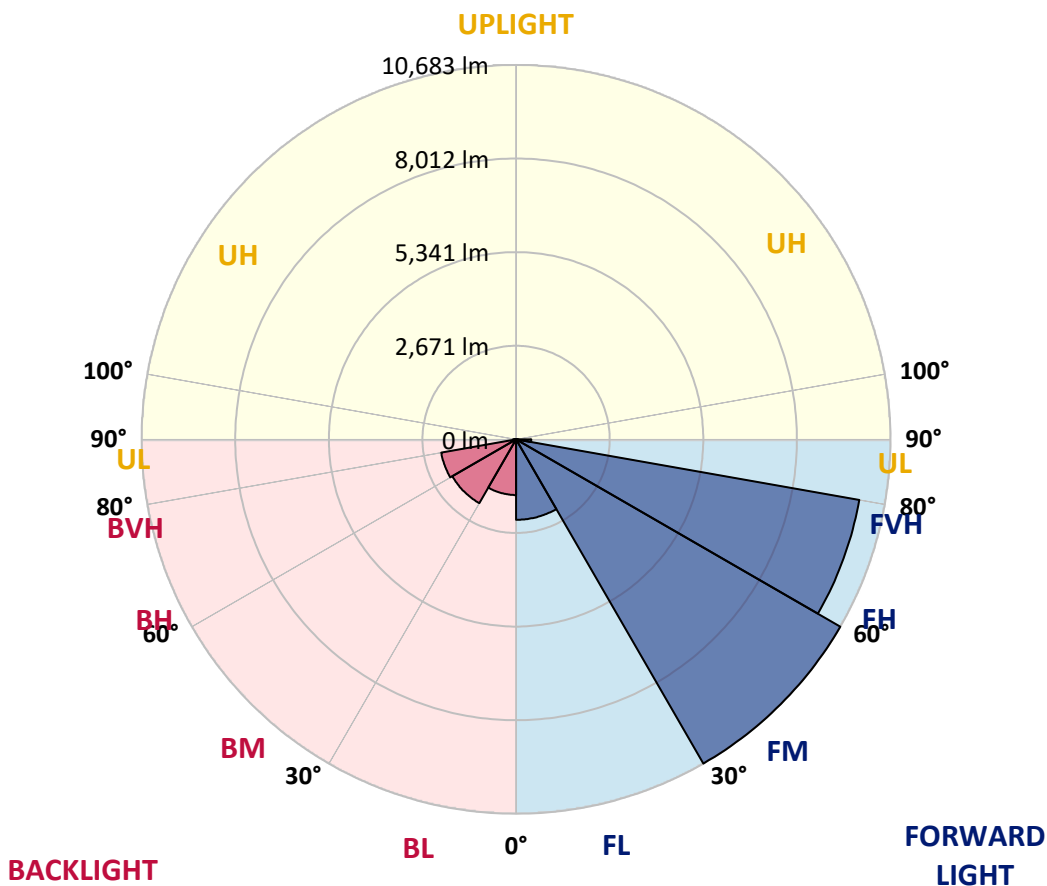
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2296.2  | 7.8       |                         |      |          |
| FM (30°-60°)   | 10683.0 | 36.5      |                         |      |          |
| FH (60°-80°)   | 9944.1  | 33.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 435.4   | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 1588.7  | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 2101.5  | 7.2       | B2/2500                 |      |          |
| BH (60°-80°)   | 2168.3  | 7.4       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 88.3    | 0.3       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6475.7 | 6475.7 | 6475.7  | 6475.7  | 6475.7  | 6475.7  | 6475.7  | 6475.7  | 6475.7  | 6475.7  | 6475.7  |
| 2.5°  | 6065.2 | 6086.6 | 6073.8  | 6155.0  | 6159.3  | 6261.9  | 6319.6  | 6368.8  | 6373.1  | 6437.2  | 6480.0  |
| 5°    | 5650.5 | 5663.3 | 5663.3  | 5740.2  | 5791.6  | 5928.4  | 6060.9  | 6202.0  | 6212.7  | 6366.7  | 6484.2  |
| 7.5°  | 5314.8 | 5327.6 | 5319.1  | 5421.7  | 5488.0  | 5639.8  | 5808.7  | 6024.6  | 6046.0  | 6294.0  | 6499.2  |
| 10°   | 5051.8 | 5047.6 | 5068.9  | 5163.0  | 5248.5  | 5430.3  | 5618.4  | 5864.2  | 5896.3  | 6210.6  | 6516.3  |
| 12.5° | 4872.3 | 4876.5 | 4889.4  | 4987.7  | 5079.6  | 5259.2  | 5453.8  | 5721.0  | 5755.2  | 6114.4  | 6507.8  |
| 15°   | 4786.7 | 4778.2 | 4788.9  | 4878.7  | 4966.3  | 5124.5  | 5325.5  | 5601.3  | 5635.5  | 6028.9  | 6509.9  |
| 17.5° | 4767.5 | 4761.1 | 4759.0  | 4823.1  | 4889.4  | 5036.9  | 5229.3  | 5509.4  | 5545.7  | 5973.3  | 6522.7  |
| 20°   | 4827.4 | 4818.8 | 4795.3  | 4823.1  | 4850.9  | 4974.9  | 5160.9  | 5443.1  | 5483.7  | 5936.9  | 6548.4  |
| 22.5° | 4992.0 | 4977.0 | 4940.7  | 4906.5  | 4870.1  | 4945.0  | 5118.1  | 5393.9  | 5434.5  | 5913.4  | 6574.0  |
| 25°   | 5242.1 | 5229.3 | 5190.8  | 5113.8  | 4981.3  | 4968.5  | 5109.6  | 5372.5  | 5413.1  | 5896.3  | 6584.7  |
| 27.5° | 5586.3 | 5567.1 | 5528.6  | 5417.4  | 5201.5  | 5056.1  | 5141.6  | 5370.4  | 5408.9  | 5877.1  | 6574.0  |
| 30°   | 5994.7 | 5981.8 | 5960.5  | 5825.8  | 5537.1  | 5242.1  | 5214.3  | 5387.5  | 5417.4  | 5866.4  | 6552.6  |
| 32.5° | 6409.4 | 6396.6 | 6413.7  | 6349.5  | 5994.7  | 5550.0  | 5372.5  | 5434.5  | 5455.9  | 5864.2  | 6533.4  |
| 35°   | 6775.0 | 6790.0 | 6914.0  | 6924.6  | 6576.2  | 5966.9  | 5622.7  | 5543.6  | 5547.8  | 5907.0  | 6542.0  |
| 37.5° | 7157.7 | 7215.4 | 7377.9  | 7516.8  | 7226.1  | 6518.4  | 5994.7  | 5748.8  | 5744.5  | 6016.0  | 6595.4  |
| 40°   | 7664.4 | 7690.0 | 7897.4  | 8158.2  | 7976.5  | 7275.3  | 6522.7  | 6084.4  | 6054.5  | 6238.4  | 6738.6  |
| 42.5° | 8158.2 | 8220.2 | 8551.6  | 8850.9  | 8791.0  | 8128.3  | 7187.6  | 6586.9  | 6533.4  | 6631.7  | 7033.7  |
| 45°   | 8786.7 | 8846.6 | 9218.6  | 9603.4  | 9712.5  | 9092.5  | 8038.5  | 7300.9  | 7247.5  | 7223.9  | 7574.6  |
| 47.5° | 9415.3 | 9477.3 | 9810.8  | 10366.7 | 10749.3 | 10298.2 | 9145.9  | 8243.7  | 8156.1  | 8064.1  | 8391.2  |
| 50°   | 9838.6 | 9911.3 | 10229.8 | 10896.9 | 11794.8 | 11803.3 | 10458.6 | 9479.4  | 9368.3  | 9222.9  | 9541.4  |
| 52.5° | 9823.6 | 9870.7 | 10174.2 | 10943.9 | 12547.3 | 13532.9 | 12215.9 | 11052.9 | 10963.1 | 10646.7 | 10924.6 |
| 55°   | 9051.8 | 9122.4 | 9428.1  | 10390.2 | 12628.5 | 15172.6 | 14798.5 | 12908.6 | 12748.3 | 12181.7 | 12487.4 |
| 57.5° | 7501.9 | 7561.7 | 7869.6  | 9056.1  | 11908.1 | 16012.8 | 18078.0 | 15273.1 | 15052.9 | 13853.6 | 14206.3 |
| 60°   | 5663.3 | 5590.6 | 5736.0  | 6775.0  | 10184.9 | 16034.2 | 20972.7 | 18480.0 | 18112.2 | 15640.8 | 15935.9 |
| 62.5° | 4250.1 | 4177.4 | 4209.5  | 4502.4  | 6905.4  | 14738.6 | 22623.2 | 22866.9 | 22259.8 | 17659.0 | 17601.3 |
| 65°   | 3358.6 | 3318.0 | 3409.9  | 3610.9  | 4025.7  | 11223.9 | 22636.0 | 27610.9 | 27228.2 | 19997.9 | 19309.5 |
| 67.5° | 2736.5 | 2710.9 | 2804.9  | 3176.9  | 3264.6  | 6031.0  | 20297.2 | 29825.8 | 29975.4 | 22559.1 | 20893.6 |
| 70°   | 2204.2 | 2165.7 | 2313.2  | 2802.8  | 3035.8  | 3649.4  | 14539.8 | 28697.0 | 28938.5 | 24085.5 | 20446.8 |
| 72.5° | 1522.2 | 1524.3 | 1599.1  | 2270.4  | 2931.1  | 3151.3  | 8224.5  | 23895.3 | 24419.0 | 22702.3 | 17975.4 |
| 75°   | 1026.2 | 1034.7 | 1056.1  | 1498.7  | 2700.2  | 3057.2  | 4382.7  | 18090.9 | 18460.7 | 18764.3 | 14858.4 |
| 77.5° | 620.0  | 624.3  | 673.4   | 906.5   | 1862.1  | 2854.1  | 2969.5  | 13113.8 | 13404.6 | 12369.9 | 9210.1  |
| 80°   | 359.2  | 374.1  | 419.0   | 607.2   | 1257.1  | 2144.3  | 2298.2  | 8040.6  | 8369.9  | 5498.7  | 2926.8  |
| 82.5° | 158.2  | 168.9  | 228.8   | 352.8   | 733.3   | 1823.6  | 1793.7  | 3176.9  | 3129.9  | 1532.9  | 1015.5  |
| 85°   | 27.8   | 34.2   | 49.2    | 111.2   | 269.4   | 962.1   | 1391.8  | 1402.5  | 1319.1  | 581.5   | 421.2   |
| 87.5° | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 6.4     | 209.5   | 376.3   | 374.1   | 164.6   | 145.4   |
| 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°    | 6475.7  | 6475.7  | 6475.7 | 6475.7 | 6475.7 | 6475.7 | 6475.7 | 6475.7 | 6475.7 | 6475.7 | 6475.7 |
| 2.5°  | 6507.8  | 6450.0  | 6501.3 | 6507.8 | 6497.1 | 6488.5 | 6424.4 | 6368.8 | 6362.4 | 6302.5 | 6302.5 |
| 5°    | 6531.3  | 6477.8  | 6503.5 | 6454.3 | 6377.3 | 6298.2 | 6161.4 | 6067.3 | 6024.6 | 5947.6 | 5947.6 |
| 7.5°  | 6563.3  | 6507.8  | 6477.8 | 6356.0 | 6176.4 | 6003.2 | 5783.0 | 5599.1 | 5524.3 | 5415.3 | 5411.0 |
| 10°   | 6593.3  | 6522.7  | 6420.1 | 6182.8 | 5896.3 | 5620.5 | 5299.8 | 5039.0 | 4861.6 | 4731.2 | 4731.2 |
| 12.5° | 6591.1  | 6499.2  | 6296.1 | 5945.5 | 5550.0 | 5150.2 | 4722.6 | 4329.2 | 4094.1 | 3891.0 | 3878.1 |
| 15°   | 6586.9  | 6460.7  | 6137.9 | 5669.7 | 5145.9 | 4592.2 | 4010.7 | 3497.6 | 3149.1 | 2950.3 | 2933.2 |
| 17.5° | 6582.6  | 6411.5  | 5960.5 | 5355.4 | 4654.2 | 3899.5 | 3132.0 | 2576.2 | 2285.4 | 2163.5 | 2167.8 |
| 20°   | 6582.6  | 6356.0  | 5770.2 | 4994.1 | 4087.7 | 3070.0 | 2298.2 | 1894.2 | 1821.5 | 1827.9 | 1834.3 |
| 22.5° | 6563.3  | 6287.5  | 5558.5 | 4600.7 | 3457.0 | 2257.6 | 1695.4 | 1558.5 | 1597.0 | 1656.9 | 1665.4 |
| 25°   | 6518.4  | 6174.2  | 5312.7 | 4164.6 | 2706.6 | 1644.0 | 1383.2 | 1357.6 | 1428.1 | 1502.9 | 1524.3 |
| 27.5° | 6447.9  | 6043.8  | 5036.9 | 3653.7 | 1992.5 | 1321.2 | 1216.5 | 1214.3 | 1269.9 | 1325.5 | 1344.7 |
| 30°   | 6373.1  | 5898.5  | 4746.1 | 3085.0 | 1443.1 | 1150.2 | 1109.6 | 1109.6 | 1137.4 | 1171.6 | 1167.3 |
| 32.5° | 6285.4  | 5750.9  | 4434.0 | 2492.8 | 1175.8 | 1054.0 | 1041.2 | 1034.7 | 1039.0 | 1051.8 | 1051.8 |
| 35°   | 6210.6  | 5620.5  | 4113.3 | 1866.4 | 1054.0 | 1000.5 | 987.7  | 972.7  | 966.3  | 957.8  | 962.1  |
| 37.5° | 6182.8  | 5517.9  | 3781.9 | 1406.7 | 994.1  | 962.1  | 940.7  | 919.3  | 904.3  | 900.1  | 897.9  |
| 40°   | 6227.7  | 5475.1  | 3450.6 | 1158.7 | 951.4  | 921.4  | 897.9  | 870.1  | 857.3  | 857.3  | 857.3  |
| 42.5° | 6403.0  | 5507.2  | 3112.8 | 1047.6 | 921.4  | 887.2  | 853.0  | 827.4  | 823.1  | 827.4  | 829.5  |
| 45°   | 6723.7  | 5631.2  | 2762.2 | 992.0  | 895.8  | 853.0  | 812.4  | 793.2  | 793.2  | 797.4  | 797.4  |
| 47.5° | 7296.6  | 5956.2  | 2415.8 | 957.8  | 870.1  | 825.2  | 782.5  | 763.2  | 761.1  | 765.4  | 765.4  |
| 50°   | 8288.6  | 6542.0  | 2103.7 | 934.3  | 850.9  | 803.8  | 761.1  | 735.4  | 729.0  | 726.9  | 726.9  |
| 52.5° | 9539.3  | 7557.5  | 1904.9 | 917.2  | 827.4  | 780.3  | 737.6  | 703.4  | 690.5  | 684.1  | 684.1  |
| 55°   | 11050.8 | 8910.7  | 1904.9 | 904.3  | 797.4  | 752.5  | 703.4  | 669.2  | 649.9  | 641.4  | 641.4  |
| 57.5° | 12763.2 | 10486.4 | 2234.1 | 893.6  | 773.9  | 720.5  | 667.0  | 632.8  | 611.4  | 598.6  | 598.6  |
| 60°   | 14505.6 | 12151.8 | 3048.6 | 878.7  | 752.5  | 679.9  | 626.4  | 594.3  | 566.5  | 551.6  | 549.4  |
| 62.5° | 16312.1 | 13986.1 | 4121.9 | 887.2  | 737.6  | 641.4  | 583.6  | 547.3  | 523.8  | 508.8  | 506.7  |
| 65°   | 17966.9 | 15732.8 | 5060.4 | 953.5  | 739.7  | 607.2  | 534.5  | 502.4  | 483.2  | 463.9  | 461.8  |
| 67.5° | 19371.5 | 16697.0 | 4401.9 | 1088.2 | 784.6  | 566.5  | 485.3  | 453.2  | 436.1  | 423.3  | 421.2  |
| 70°   | 18388.0 | 15226.1 | 2497.1 | 1171.6 | 846.6  | 523.8  | 429.7  | 408.3  | 391.2  | 382.7  | 380.5  |
| 72.5° | 15724.2 | 12891.5 | 1669.7 | 1034.7 | 771.8  | 468.2  | 378.4  | 361.3  | 348.5  | 337.8  | 335.6  |
| 75°   | 12737.6 | 10223.4 | 1276.3 | 848.7  | 600.7  | 380.5  | 325.0  | 312.1  | 299.3  | 288.6  | 286.5  |
| 77.5° | 7536.1  | 5907.0  | 940.7  | 671.3  | 423.3  | 297.2  | 269.4  | 258.7  | 245.9  | 237.3  | 235.2  |
| 80°   | 2405.1  | 2052.4  | 596.5  | 461.8  | 280.1  | 228.8  | 207.4  | 198.8  | 186.0  | 175.3  | 173.2  |
| 82.5° | 917.2   | 793.2   | 316.4  | 235.2  | 186.0  | 156.1  | 139.0  | 130.4  | 121.9  | 111.2  | 109.0  |
| 85°   | 406.2   | 380.5   | 175.3  | 126.1  | 100.5  | 77.0   | 68.4   | 64.1   | 53.4   | 44.9   | 42.8   |
| 87.5° | 143.2   | 143.2   | 74.8   | 36.3   | 21.4   | 10.7   | 6.4    | 2.1    | 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)