

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: P635735

Luminaire Tested: GWS-SA3E-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-735-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

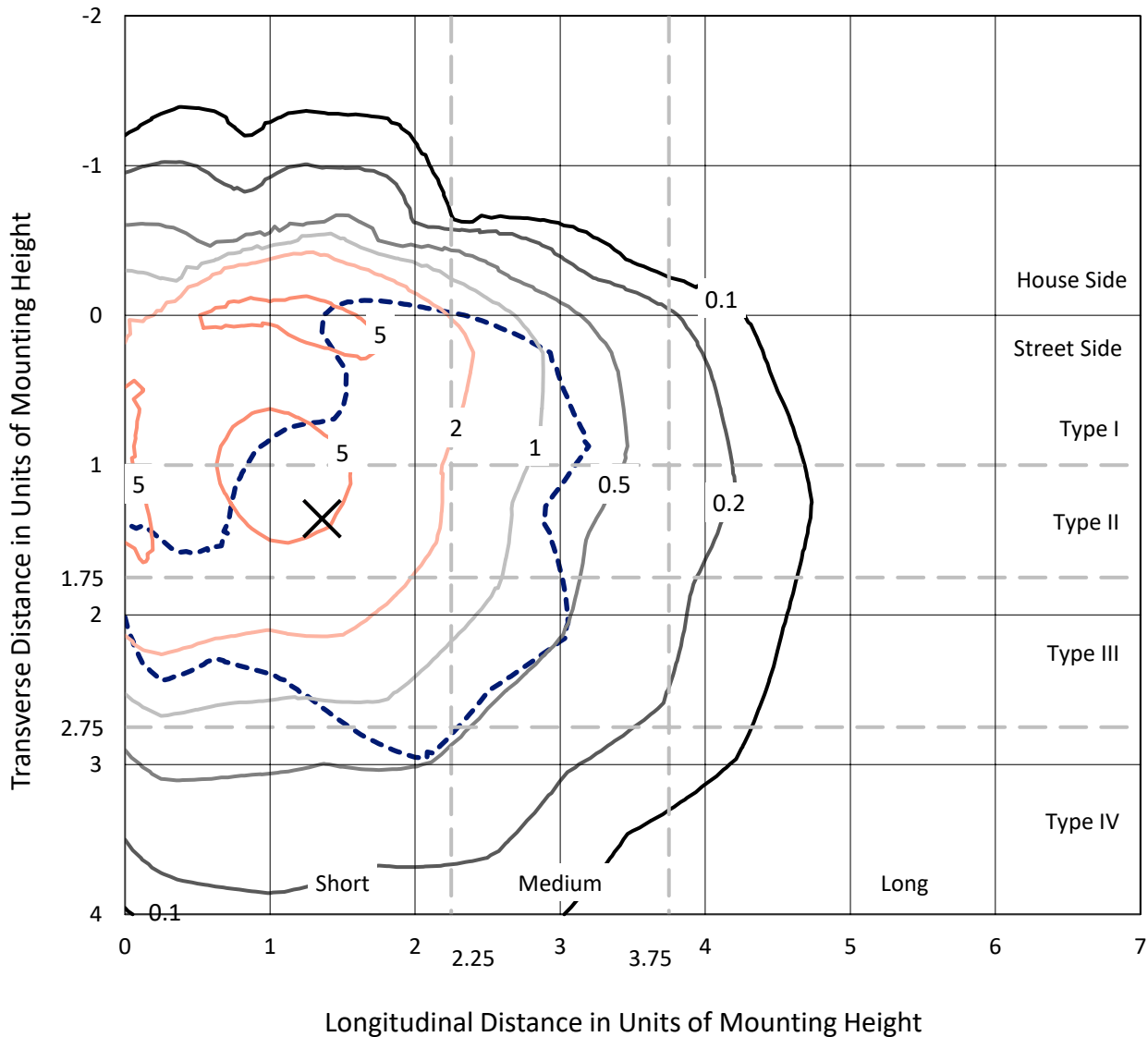
Lumens per Lamp: N/A  
Luminaire Lumens: 13460.8 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

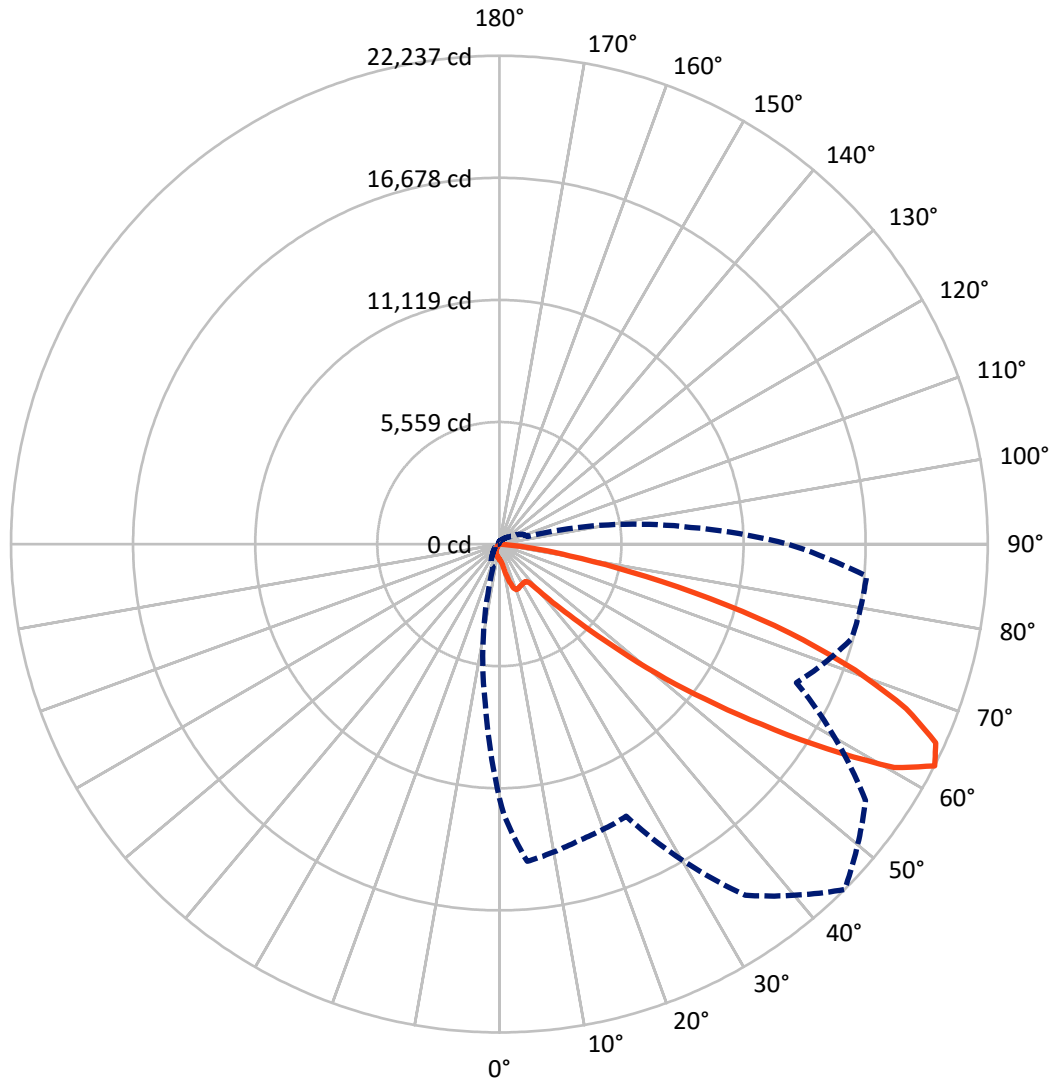
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1661.0   | 0.0    | 1661.0  |
|                    | % Fixture | 12.3     | 0.0    | 12.3    |
| <b>Street Side</b> | Lumens    | 11799.8  | 0.0    | 11799.8 |
|                    | % Fixture | 87.7     | 0.0    | 87.7    |
| <b>Total</b>       | Lumens    | 13460.8  | 0.0    | 13460.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 62.1    | 0.5       |
| 10°-20°   | 234.7   | 1.7       |
| 20°-30°   | 510.2   | 3.8       |
| 30°-40°   | 837.3   | 6.2       |
| 40°-50°   | 1539.3  | 11.4      |
| 50°-60°   | 3305.8  | 24.6      |
| 60°-70°   | 4440.2  | 33.0      |
| 70°-80°   | 2312.0  | 17.2      |
| 80°-90°   | 219.2   | 1.6       |
| 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°    | 13460.8 | 100.0     |
| 0°-180°   | 13460.8 | 100.0     |

**Coefficient of Utilization**



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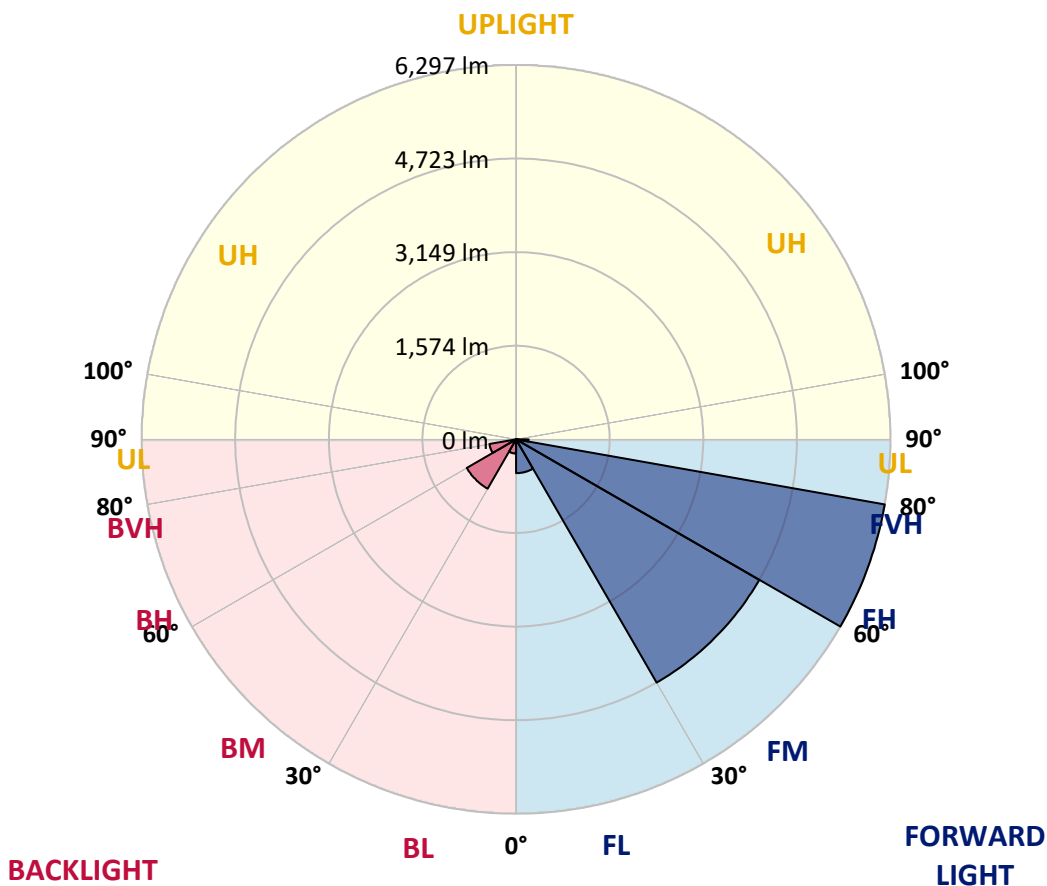
CATALOG NUMBER: GWS-SA3E-735-U-SLR-W-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 568.7  | 4.2       |                         |      |         |
| FM (30°-60°)   | 4724.6 | 35.1      |                         |      |         |
| FH (60°-80°)   | 6297.1 | 46.8      |                         |      | G3/7500 |
| FVH (80°-90°)  | 209.4  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 238.3  | 1.8       | B1/500                  |      |         |
| BM (30°-60°)   | 957.9  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 455.1  | 3.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 9.8    | 0.1       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 699.7   | 699.7   | 699.7   | 699.7   | 699.7   | 699.7   | 699.7   | 699.7   | 699.7   | 699.7   | 699.7   |
| 2.5°  | 713.7   | 716.8   | 719.9   | 730.8   | 738.6   | 744.8   | 746.3   | 741.7   | 730.8   | 719.9   | 704.3   |
| 5°    | 691.9   | 695.0   | 705.9   | 735.4   | 765.0   | 788.3   | 796.1   | 791.4   | 765.0   | 730.8   | 695.0   |
| 7.5°  | 690.4   | 696.6   | 723.0   | 785.2   | 848.9   | 897.1   | 909.6   | 898.7   | 848.9   | 780.5   | 707.5   |
| 10°   | 746.3   | 757.2   | 796.1   | 908.0   | 1024.6  | 1110.2  | 1144.4  | 1097.7  | 1018.4  | 894.0   | 774.3   |
| 12.5° | 892.5   | 911.1   | 985.8   | 1149.0  | 1329.4  | 1442.9  | 1489.5  | 1432.0  | 1307.6  | 1127.3  | 937.6   |
| 15°   | 1122.6  | 1150.6  | 1262.5  | 1506.6  | 1719.7  | 1820.7  | 1836.3  | 1803.6  | 1659.0  | 1460.0  | 1205.0  |
| 17.5° | 1447.6  | 1488.0  | 1662.1  | 1910.9  | 2064.8  | 2100.6  | 2095.9  | 2061.7  | 1956.0  | 1819.2  | 1578.2  |
| 20°   | 1836.3  | 1884.5  | 2055.5  | 2260.7  | 2276.3  | 2234.3  | 2211.0  | 2190.8  | 2155.0  | 2131.7  | 1943.6  |
| 22.5° | 2228.1  | 2287.2  | 2466.0  | 2517.3  | 2377.4  | 2256.1  | 2198.5  | 2214.1  | 2267.0  | 2382.0  | 2305.8  |
| 25°   | 2618.4  | 2674.3  | 2842.3  | 2703.9  | 2424.0  | 2221.9  | 2148.8  | 2186.1  | 2312.1  | 2560.8  | 2658.8  |
| 27.5° | 3073.9  | 3115.9  | 3215.4  | 2831.4  | 2431.8  | 2193.9  | 2122.4  | 2179.9  | 2333.8  | 2672.8  | 3045.9  |
| 30°   | 3548.2  | 3573.0  | 3524.8  | 2865.6  | 2405.3  | 2151.9  | 2095.9  | 2179.9  | 2371.1  | 2747.4  | 3336.7  |
| 32.5° | 3896.4  | 3901.1  | 3744.1  | 2868.7  | 2391.4  | 2117.7  | 2071.1  | 2170.6  | 2406.9  | 2809.6  | 3618.1  |
| 35°   | 4255.6  | 4232.3  | 3954.0  | 2915.3  | 2428.7  | 2130.1  | 2089.7  | 2197.0  | 2462.9  | 2882.7  | 3865.3  |
| 37.5° | 4619.4  | 4577.5  | 4188.8  | 2991.5  | 2525.1  | 2265.4  | 2240.5  | 2332.3  | 2553.1  | 2983.7  | 4137.4  |
| 40°   | 4992.6  | 4935.1  | 4432.9  | 3106.6  | 2739.6  | 2725.6  | 2811.2  | 2800.3  | 2800.3  | 3112.8  | 4417.3  |
| 42.5° | 5448.2  | 5381.3  | 4793.6  | 3431.5  | 3240.3  | 3552.8  | 3786.0  | 3641.4  | 3374.0  | 3409.8  | 4781.1  |
| 45°   | 6049.9  | 5992.4  | 5418.6  | 4053.5  | 4025.5  | 4743.8  | 5057.9  | 4771.8  | 4106.3  | 4095.5  | 5389.1  |
| 47.5° | 7012.3  | 7001.5  | 6415.3  | 4774.9  | 4986.4  | 6259.8  | 6866.2  | 6315.8  | 4941.3  | 4821.6  | 6539.7  |
| 50°   | 8365.1  | 8332.4  | 7657.6  | 5620.8  | 6129.2  | 8138.1  | 9220.2  | 8302.9  | 5950.4  | 5669.0  | 8080.5  |
| 52.5° | 9888.8  | 9923.0  | 9397.5  | 6544.3  | 7343.5  | 10227.8 | 11734.4 | 10579.2 | 7046.6  | 6746.5  | 10019.4 |
| 55°   | 11323.9 | 11519.8 | 11381.5 | 7625.0  | 8529.9  | 12535.2 | 14495.8 | 13076.2 | 8403.9  | 8156.7  | 12193.1 |
| 57.5° | 12446.5 | 12998.5 | 13968.7 | 9195.3  | 9924.6  | 15234.4 | 17579.1 | 15783.2 | 9988.3  | 10447.0 | 15152.0 |
| 60°   | 12508.7 | 13239.5 | 15492.5 | 12480.7 | 11718.9 | 17549.5 | 20657.7 | 18428.0 | 12479.2 | 14335.7 | 17470.2 |
| 62.5° | 11571.1 | 12354.8 | 14500.5 | 13973.4 | 13673.3 | 19519.5 | 22237.4 | 20356.0 | 14929.6 | 16613.5 | 16783.0 |
| 65°   | 10498.3 | 11289.7 | 13393.4 | 12280.2 | 13446.3 | 19435.6 | 21836.2 | 20401.1 | 15152.0 | 15064.9 | 15553.1 |
| 67.5° | 8876.6  | 9587.2  | 11491.9 | 10869.9 | 12393.7 | 18498.0 | 19982.9 | 19115.3 | 13959.4 | 14090.0 | 14307.7 |
| 70°   | 6479.0  | 7163.2  | 8931.0  | 8962.1  | 10823.3 | 16807.9 | 17170.1 | 17050.4 | 12855.5 | 12993.8 | 12371.9 |
| 72.5° | 4680.1  | 5256.9  | 6782.2  | 7349.7  | 8640.3  | 14094.7 | 13844.3 | 14306.1 | 11030.1 | 11572.7 | 9937.0  |
| 75°   | 3364.7  | 3796.9  | 4975.5  | 6393.5  | 6849.1  | 10467.2 | 9910.6  | 11079.8 | 8850.2  | 9965.0  | 7471.0  |
| 77.5° | 1365.2  | 1517.5  | 1957.5  | 4306.9  | 4501.3  | 7041.9  | 6067.0  | 8047.9  | 6309.6  | 6547.4  | 3621.2  |
| 80°   | 56.0    | 62.2    | 80.9    | 2223.4  | 3086.4  | 3961.7  | 3246.5  | 4302.3  | 4167.0  | 2637.0  | 855.2   |
| 82.5° | 6.2     | 6.2     | 14.0    | 640.6   | 1351.2  | 2186.1  | 1530.0  | 2478.4  | 2109.9  | 1117.9  | 388.7   |
| 85°   | 1.6     | 1.6     | 3.1     | 73.1    | 317.2   | 349.8   | 206.8   | 760.3   | 981.1   | 457.1   | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 7.8     | 14.0    | 15.5    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|---------|---------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 699.7   | 699.7   | 699.7  | 699.7  | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 |
| 2.5°  | 704.3   | 696.6   | 687.2  | 677.9  | 673.2 | 660.8 | 656.1 | 653.0 | 649.9 | 651.5 | 651.5 |
| 5°    | 681.0   | 663.9   | 643.7  | 623.5  | 612.6 | 600.2 | 594.0 | 590.8 | 592.4 | 598.6 | 598.6 |
| 7.5°  | 677.9   | 645.3   | 601.7  | 575.3  | 562.9 | 553.5 | 547.3 | 544.2 | 545.8 | 553.5 | 556.6 |
| 10°   | 729.2   | 671.7   | 594.0  | 548.9  | 534.9 | 525.5 | 519.3 | 514.7 | 511.5 | 517.8 | 519.3 |
| 12.5° | 839.6   | 760.3   | 631.3  | 545.8  | 520.9 | 508.4 | 503.8 | 494.4 | 489.8 | 492.9 | 494.4 |
| 15°   | 1068.2  | 931.4   | 705.9  | 558.2  | 508.4 | 494.4 | 486.7 | 478.9 | 471.1 | 469.6 | 471.1 |
| 17.5° | 1366.7  | 1170.8  | 819.4  | 587.7  | 499.1 | 482.0 | 471.1 | 460.2 | 449.3 | 447.8 | 446.2 |
| 20°   | 1736.8  | 1464.7  | 978.0  | 634.4  | 491.3 | 471.1 | 455.6 | 440.0 | 426.0 | 421.4 | 421.4 |
| 22.5° | 2074.2  | 1819.2  | 1181.7 | 691.9  | 480.4 | 455.6 | 436.9 | 418.3 | 402.7 | 394.9 | 393.4 |
| 25°   | 2486.2  | 2195.4  | 1425.8 | 758.8  | 464.9 | 435.4 | 415.1 | 396.5 | 380.9 | 371.6 | 368.5 |
| 27.5° | 2901.3  | 2591.9  | 1702.6 | 845.8  | 446.2 | 415.1 | 396.5 | 379.4 | 362.3 | 351.4 | 348.3 |
| 30°   | 3304.0  | 3019.5  | 2013.5 | 954.7  | 432.2 | 394.9 | 379.4 | 362.3 | 346.7 | 329.6 | 325.0 |
| 32.5° | 3736.3  | 3456.4  | 2361.8 | 1076.0 | 421.4 | 380.9 | 363.8 | 348.3 | 328.1 | 312.5 | 304.7 |
| 35°   | 4153.0  | 3907.3  | 2745.9 | 1194.1 | 410.5 | 368.5 | 349.8 | 334.3 | 312.5 | 295.4 | 284.5 |
| 37.5° | 4572.8  | 4366.0  | 3147.0 | 1265.6 | 394.9 | 351.4 | 334.3 | 321.9 | 297.0 | 276.8 | 264.3 |
| 40°   | 5017.5  | 4840.2  | 3580.8 | 1236.1 | 380.9 | 332.7 | 323.4 | 309.4 | 281.4 | 258.1 | 242.6 |
| 42.5° | 5505.7  | 5292.7  | 4022.4 | 1122.6 | 368.5 | 317.2 | 307.9 | 293.9 | 267.4 | 239.4 | 219.2 |
| 45°   | 6119.9  | 5788.7  | 4384.7 | 951.6  | 374.7 | 301.6 | 283.0 | 279.9 | 255.0 | 219.2 | 194.4 |
| 47.5° | 7175.6  | 6550.6  | 4666.1 | 841.2  | 416.7 | 284.5 | 262.8 | 270.5 | 244.1 | 199.0 | 171.0 |
| 50°   | 8791.1  | 7813.1  | 4928.9 | 833.4  | 480.4 | 276.8 | 244.1 | 264.3 | 233.2 | 178.8 | 150.8 |
| 52.5° | 10330.4 | 9095.8  | 5096.8 | 901.8  | 536.4 | 297.0 | 225.5 | 256.5 | 225.5 | 164.8 | 136.8 |
| 55°   | 11802.8 | 9835.9  | 4796.7 | 951.6  | 589.3 | 357.6 | 211.5 | 244.1 | 216.1 | 157.0 | 132.2 |
| 57.5° | 13390.3 | 10165.6 | 3776.7 | 1052.6 | 626.6 | 408.9 | 214.6 | 225.5 | 203.7 | 152.4 | 130.6 |
| 60°   | 13864.5 | 9744.2  | 2279.4 | 1184.8 | 606.4 | 424.5 | 237.9 | 200.6 | 186.6 | 143.0 | 125.9 |
| 62.5° | 13127.5 | 8744.4  | 1344.9 | 1079.1 | 589.3 | 401.1 | 272.1 | 185.0 | 169.5 | 130.6 | 116.6 |
| 65°   | 12025.2 | 7387.1  | 876.9  | 911.1  | 625.0 | 357.6 | 289.2 | 177.3 | 153.9 | 118.2 | 102.6 |
| 67.5° | 10765.7 | 5950.4  | 614.2  | 538.0  | 576.8 | 321.9 | 244.1 | 175.7 | 138.4 | 99.5  | 84.0  |
| 70°   | 9067.9  | 4456.2  | 432.2  | 356.1  | 480.4 | 286.1 | 189.7 | 171.0 | 121.3 | 80.9  | 65.3  |
| 72.5° | 7006.1  | 2789.4  | 321.9  | 230.1  | 342.1 | 233.2 | 150.8 | 144.6 | 98.0  | 66.9  | 49.8  |
| 75°   | 5166.7  | 1590.6  | 227.0  | 166.4  | 225.5 | 177.3 | 111.9 | 102.6 | 84.0  | 63.7  | 45.1  |
| 77.5° | 2697.7  | 796.1   | 141.5  | 127.5  | 129.1 | 110.4 | 80.9  | 74.6  | 77.7  | 63.7  | 42.0  |
| 80°   | 517.8   | 158.6   | 85.5   | 93.3   | 70.0  | 70.0  | 59.1  | 62.2  | 68.4  | 51.3  | 35.8  |
| 82.5° | 216.1   | 34.2    | 46.6   | 52.9   | 43.5  | 48.2  | 48.2  | 49.8  | 48.2  | 37.3  | 26.4  |
| 85°   | 0.0     | 0.0     | 20.2   | 21.8   | 29.5  | 29.5  | 24.9  | 24.9  | 24.9  | 21.8  | 15.5  |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 1.6   | 4.7   | 9.3   | 10.9  | 12.4  | 9.3   | 6.2   |
| 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):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  | 275°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 |
| 2.5°  | 649.9 | 646.8 | 651.5 | 654.6 | 657.7 | 657.7 | 654.6 | 651.5 | 646.8 | 651.5 | 646.8 |
| 5°    | 600.2 | 604.8 | 612.6 | 615.7 | 618.8 | 612.6 | 609.5 | 600.2 | 592.4 | 594.0 | 590.8 |
| 7.5°  | 561.3 | 566.0 | 575.3 | 581.5 | 581.5 | 578.4 | 569.1 | 559.7 | 547.3 | 547.3 | 545.8 |
| 10°   | 525.5 | 531.8 | 542.6 | 550.4 | 553.5 | 550.4 | 541.1 | 528.6 | 517.8 | 517.8 | 513.1 |
| 12.5° | 496.0 | 503.8 | 516.2 | 527.1 | 530.2 | 527.1 | 517.8 | 505.3 | 492.9 | 492.9 | 489.8 |
| 15°   | 471.1 | 480.4 | 494.4 | 506.9 | 511.5 | 506.9 | 496.0 | 480.4 | 468.0 | 469.6 | 464.9 |
| 17.5° | 447.8 | 455.6 | 474.2 | 488.2 | 492.9 | 488.2 | 474.2 | 454.0 | 441.6 | 444.7 | 441.6 |
| 20°   | 421.4 | 430.7 | 449.3 | 464.9 | 469.6 | 464.9 | 449.3 | 427.6 | 415.1 | 415.1 | 416.7 |
| 22.5° | 393.4 | 402.7 | 421.4 | 432.2 | 438.5 | 433.8 | 418.3 | 398.0 | 385.6 | 385.6 | 387.2 |
| 25°   | 368.5 | 373.2 | 387.2 | 398.0 | 399.6 | 394.9 | 382.5 | 366.9 | 357.6 | 362.3 | 363.8 |
| 27.5° | 345.2 | 345.2 | 351.4 | 357.6 | 356.1 | 351.4 | 346.7 | 334.3 | 332.7 | 337.4 | 342.1 |
| 30°   | 320.3 | 312.5 | 309.4 | 304.7 | 303.2 | 301.6 | 306.3 | 306.3 | 309.4 | 315.6 | 320.3 |
| 32.5° | 298.5 | 283.0 | 269.0 | 255.0 | 247.2 | 253.4 | 265.9 | 276.8 | 287.6 | 297.0 | 301.6 |
| 35°   | 273.7 | 248.8 | 225.5 | 206.8 | 194.4 | 203.7 | 223.9 | 244.1 | 262.8 | 275.2 | 283.0 |
| 37.5° | 248.8 | 213.0 | 185.0 | 161.7 | 152.4 | 160.1 | 181.9 | 209.9 | 237.9 | 253.4 | 264.3 |
| 40°   | 222.3 | 177.3 | 144.6 | 125.9 | 116.6 | 124.4 | 146.2 | 174.1 | 211.5 | 231.7 | 245.7 |
| 42.5° | 195.9 | 146.2 | 116.6 | 98.0  | 93.3  | 98.0  | 115.1 | 143.0 | 183.5 | 208.3 | 227.0 |
| 45°   | 169.5 | 121.3 | 93.3  | 79.3  | 74.6  | 79.3  | 93.3  | 116.6 | 157.0 | 185.0 | 206.8 |
| 47.5° | 146.2 | 102.6 | 77.7  | 65.3  | 62.2  | 66.9  | 77.7  | 98.0  | 132.2 | 160.1 | 185.0 |
| 50°   | 127.5 | 90.2  | 66.9  | 56.0  | 52.9  | 57.5  | 66.9  | 82.4  | 111.9 | 136.8 | 163.3 |
| 52.5° | 115.1 | 84.0  | 59.1  | 48.2  | 46.6  | 49.8  | 57.5  | 70.0  | 94.8  | 116.6 | 141.5 |
| 55°   | 111.9 | 84.0  | 54.4  | 43.5  | 42.0  | 45.1  | 51.3  | 60.6  | 82.4  | 101.1 | 122.8 |
| 57.5° | 115.1 | 90.2  | 51.3  | 37.3  | 35.8  | 38.9  | 45.1  | 52.9  | 71.5  | 87.1  | 107.3 |
| 60°   | 115.1 | 91.7  | 45.1  | 29.5  | 28.0  | 31.1  | 37.3  | 46.6  | 63.7  | 76.2  | 93.3  |
| 62.5° | 104.2 | 84.0  | 37.3  | 23.3  | 20.2  | 23.3  | 31.1  | 38.9  | 56.0  | 68.4  | 82.4  |
| 65°   | 90.2  | 71.5  | 31.1  | 17.1  | 14.0  | 17.1  | 24.9  | 32.7  | 48.2  | 59.1  | 74.6  |
| 67.5° | 73.1  | 54.4  | 23.3  | 12.4  | 9.3   | 12.4  | 18.7  | 26.4  | 40.4  | 51.3  | 66.9  |
| 70°   | 54.4  | 38.9  | 18.7  | 10.9  | 9.3   | 10.9  | 17.1  | 24.9  | 35.8  | 46.6  | 62.2  |
| 72.5° | 40.4  | 26.4  | 15.5  | 10.9  | 7.8   | 10.9  | 15.5  | 23.3  | 34.2  | 45.1  | 59.1  |
| 75°   | 34.2  | 21.8  | 14.0  | 9.3   | 7.8   | 9.3   | 14.0  | 21.8  | 31.1  | 42.0  | 56.0  |
| 77.5° | 32.7  | 20.2  | 12.4  | 7.8   | 6.2   | 7.8   | 12.4  | 18.7  | 28.0  | 38.9  | 54.4  |
| 80°   | 28.0  | 17.1  | 10.9  | 6.2   | 4.7   | 6.2   | 10.9  | 15.5  | 21.8  | 29.5  | 42.0  |
| 82.5° | 21.8  | 14.0  | 7.8   | 3.1   | 1.6   | 3.1   | 7.8   | 9.3   | 14.0  | 17.1  | 24.9  |
| 85°   | 14.0  | 7.8   | 3.1   | 0.0   | 0.0   | 0.0   | 3.1   | 6.2   | 6.2   | 7.8   | 12.4  |
| 87.5° | 6.2   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.6   | 3.1   | 4.7   |
| 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):**

|       | 285°  | 295°  | 305°  | 315°  | 325°  | 335°   | 345°   | 355°   | 359°    | 360°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|---------|---------|
| 0°    | 699.7 | 699.7 | 699.7 | 699.7 | 699.7 | 699.7  | 699.7  | 699.7  | 699.7   | 699.7   |
| 2.5°  | 656.1 | 657.7 | 660.8 | 665.5 | 676.4 | 685.7  | 695.0  | 707.5  | 713.7   | 713.7   |
| 5°    | 594.0 | 595.5 | 597.1 | 603.3 | 618.8 | 631.3  | 651.5  | 676.4  | 688.8   | 691.9   |
| 7.5°  | 545.8 | 548.9 | 552.0 | 556.6 | 572.2 | 589.3  | 615.7  | 662.4  | 685.7   | 690.4   |
| 10°   | 517.8 | 522.4 | 528.6 | 538.0 | 552.0 | 570.6  | 615.7  | 699.7  | 738.6   | 746.3   |
| 12.5° | 496.0 | 503.8 | 510.0 | 520.9 | 538.0 | 567.5  | 657.7  | 805.4  | 873.8   | 892.5   |
| 15°   | 474.2 | 483.6 | 492.9 | 503.8 | 522.4 | 578.4  | 738.6  | 995.1  | 1108.6  | 1122.6  |
| 17.5° | 452.5 | 463.3 | 475.8 | 488.2 | 511.5 | 604.8  | 866.0  | 1257.9 | 1416.5  | 1447.6  |
| 20°   | 427.6 | 441.6 | 458.7 | 474.2 | 500.7 | 646.8  | 1043.3 | 1570.4 | 1769.4  | 1836.3  |
| 22.5° | 401.1 | 418.3 | 438.5 | 458.7 | 488.2 | 698.1  | 1257.9 | 1906.2 | 2184.6  | 2228.1  |
| 25°   | 379.4 | 396.5 | 415.1 | 435.4 | 468.0 | 760.3  | 1517.5 | 2322.9 | 2576.4  | 2618.4  |
| 27.5° | 359.2 | 376.3 | 393.4 | 412.0 | 447.8 | 841.2  | 1830.1 | 2766.1 | 3030.4  | 3073.9  |
| 30°   | 337.4 | 357.6 | 374.7 | 393.4 | 429.1 | 940.7  | 2190.8 | 3257.4 | 3507.7  | 3548.2  |
| 32.5° | 318.7 | 339.0 | 356.1 | 374.7 | 415.1 | 1049.5 | 2570.2 | 3692.8 | 3896.4  | 3896.4  |
| 35°   | 303.2 | 325.0 | 337.4 | 362.3 | 404.3 | 1119.5 | 2929.3 | 4107.9 | 4261.8  | 4255.6  |
| 37.5° | 286.1 | 312.5 | 321.9 | 339.0 | 390.3 | 1127.3 | 3266.7 | 4546.4 | 4659.9  | 4619.4  |
| 40°   | 269.0 | 297.0 | 311.0 | 320.3 | 374.7 | 1063.5 | 3636.8 | 4949.1 | 5045.5  | 4992.6  |
| 42.5° | 253.4 | 275.2 | 295.4 | 306.3 | 365.4 | 951.6  | 3933.8 | 5379.8 | 5494.8  | 5448.2  |
| 45°   | 237.9 | 256.5 | 269.0 | 289.2 | 371.6 | 873.8  | 4188.8 | 5882.0 | 6084.1  | 6049.9  |
| 47.5° | 222.3 | 237.9 | 245.7 | 276.8 | 413.6 | 838.1  | 4344.2 | 6659.4 | 7040.3  | 7012.3  |
| 50°   | 205.2 | 223.9 | 223.9 | 273.7 | 475.8 | 850.5  | 4479.5 | 7785.1 | 8374.4  | 8365.1  |
| 52.5° | 188.1 | 208.3 | 205.2 | 297.0 | 524.0 | 908.0  | 4633.4 | 8778.6 | 9803.3  | 9888.8  |
| 55°   | 171.0 | 189.7 | 192.8 | 343.6 | 552.0 | 957.8  | 4037.9 | 9196.9 | 11023.8 | 11323.9 |
| 57.5° | 152.4 | 163.3 | 200.6 | 379.4 | 542.6 | 1102.4 | 2766.1 | 9273.1 | 11802.8 | 12446.5 |
| 60°   | 132.2 | 141.5 | 227.0 | 371.6 | 513.1 | 1018.4 | 1741.4 | 8589.0 | 11692.4 | 12508.7 |
| 62.5° | 115.1 | 130.6 | 239.4 | 328.1 | 522.4 | 883.2  | 1110.2 | 7320.2 | 10639.8 | 11571.1 |
| 65°   | 101.1 | 125.9 | 217.7 | 297.0 | 528.6 | 598.6  | 749.4  | 5955.1 | 9612.0  | 10498.3 |
| 67.5° | 90.2  | 139.9 | 178.8 | 264.3 | 454.0 | 421.4  | 514.7  | 4627.2 | 8082.1  | 8876.6  |
| 70°   | 82.4  | 143.0 | 146.2 | 227.0 | 351.4 | 270.5  | 339.0  | 3114.4 | 5571.0  | 6479.0  |
| 72.5° | 74.6  | 105.7 | 110.4 | 181.9 | 227.0 | 164.8  | 219.2  | 1781.9 | 4061.3  | 4680.1  |
| 75°   | 71.5  | 71.5  | 76.2  | 118.2 | 125.9 | 119.7  | 141.5  | 1063.5 | 2912.2  | 3364.7  |
| 77.5° | 66.9  | 54.4  | 48.2  | 76.2  | 68.4  | 85.5   | 84.0   | 472.7  | 1262.5  | 1365.2  |
| 80°   | 52.9  | 38.9  | 32.7  | 48.2  | 46.6  | 57.5   | 49.8   | 38.9   | 57.5    | 56.0    |
| 82.5° | 32.7  | 24.9  | 23.3  | 29.5  | 26.4  | 29.5   | 23.3   | 6.2    | 6.2     | 6.2     |
| 85°   | 15.5  | 14.0  | 12.4  | 12.4  | 14.0  | 12.4   | 9.3    | 3.1    | 1.6     | 1.6     |
| 87.5° | 7.8   | 7.8   | 6.2   | 4.7   | 6.2   | 6.2    | 4.7    | 1.6    | 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     |

(END OF REPORT)