

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: P383222

Luminaire Tested: **GLEON-SA5C-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5C-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28133.7 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

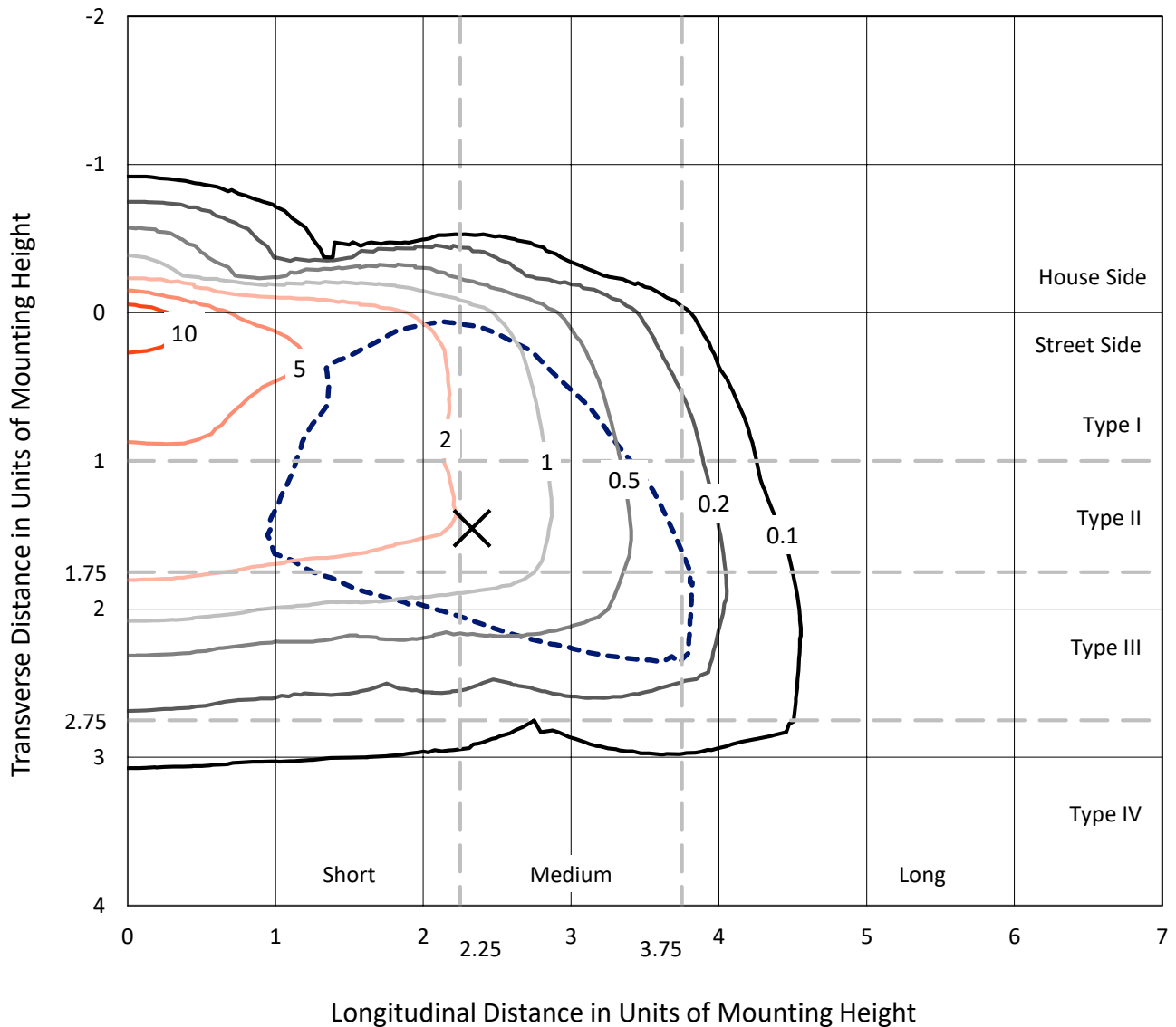
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

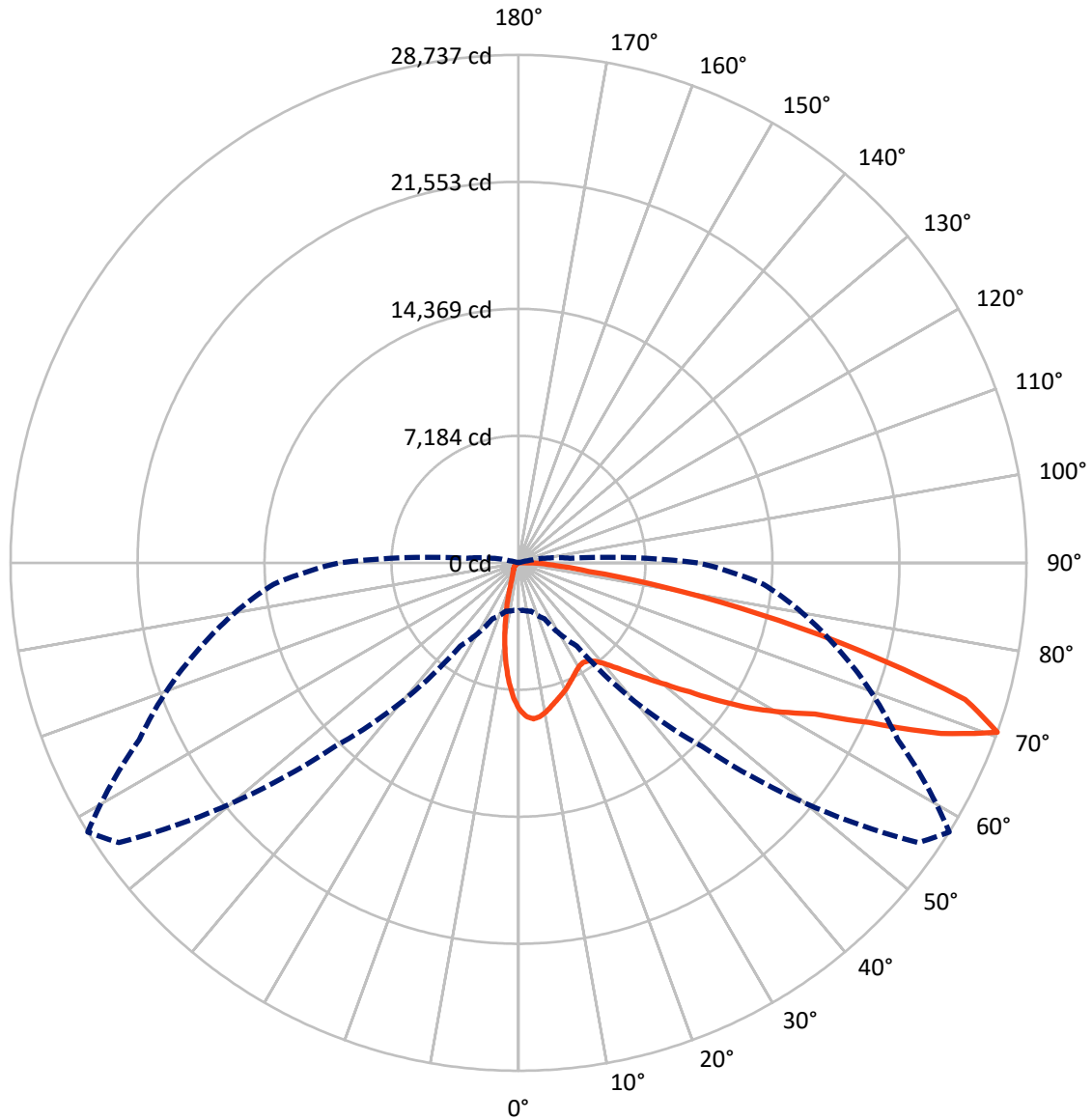
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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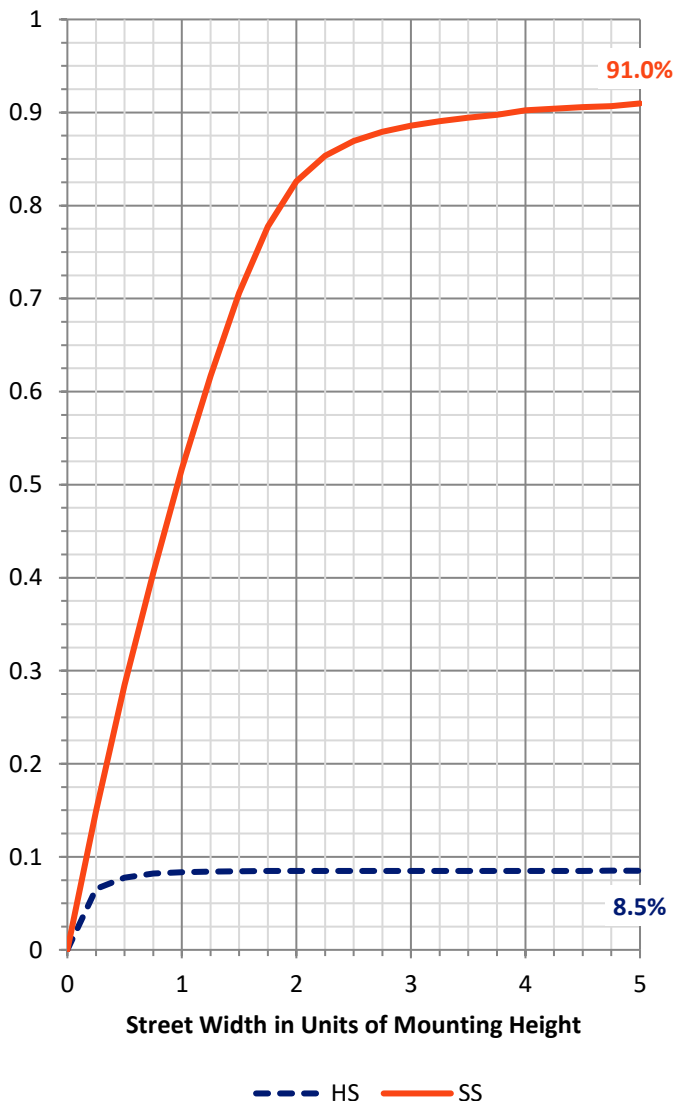
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2407.6   | 0.0    | 2407.6  |
|                    | % Fixture | 8.6      | 0.0    | 8.6     |
| <b>Street Side</b> | Lumens    | 25726.0  | 0.0    | 25726.0 |
|                    | % Fixture | 91.4     | 0.0    | 91.4    |
| <b>Total</b>       | Lumens    | 28133.7  | 0.0    | 28133.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 679.6   | 2.4       |
| 10°-20°   | 1426.3  | 5.1       |
| 20°-30°   | 1875.1  | 6.7       |
| 30°-40°   | 2483.3  | 8.8       |
| 40°-50°   | 3711.8  | 13.2      |
| 50°-60°   | 5946.2  | 21.1      |
| 60°-70°   | 7495.2  | 26.6      |
| 70°-80°   | 4042.9  | 14.4      |
| 80°-90°   | 473.2   | 1.7       |
| 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°    | 28133.7 | 100.0     |
| 0°-180°   | 28133.7 | 100.0     |

**Coefficient of Utilization**

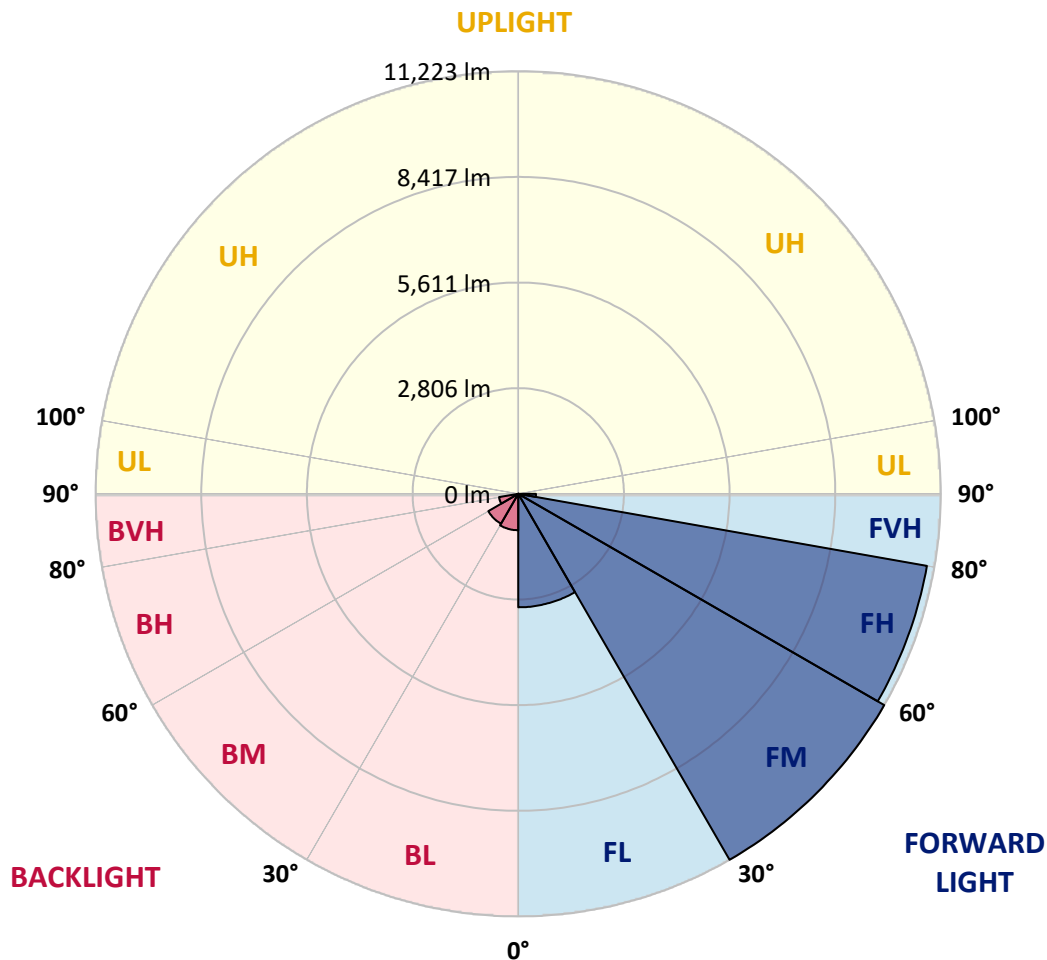


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3013.7  | 10.7      |                         |      |          |
| FM (30°-60°)   | 11223.0 | 39.9      |                         |      |          |
| FH (60°-80°)   | 11020.2 | 39.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 469.1   | 1.7       |                         |      | G3/500   |
| BL (0°-30°)    | 967.3   | 3.4       | B2/1000                 |      |          |
| BM (30°-60°)   | 918.5   | 3.3       | B1/1000                 |      |          |
| BH (60°-80°)   | 517.8   | 1.8       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 4.1     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8310.5  | 8310.5  | 8310.5  | 8310.5  | 8310.5  | 8310.5  | 8310.5  | 8310.5  | 8310.5  | 8310.5  | 8310.5  |
| 2.5°  | 8999.6  | 8977.3  | 8969.2  | 8955.2  | 8901.3  | 8848.7  | 8744.5  | 8715.3  | 8649.8  | 8494.2  | 8329.2  |
| 5°    | 9006.6  | 9005.5  | 9030.0  | 9024.2  | 9005.5  | 8980.9  | 8906.0  | 8867.4  | 8756.3  | 8534.0  | 8232.2  |
| 7.5°  | 8572.6  | 8594.8  | 8649.8  | 8694.2  | 8745.7  | 8812.4  | 8821.8  | 8784.3  | 8693.1  | 8453.2  | 8053.2  |
| 10°   | 7990.0  | 8025.1  | 8102.3  | 8190.1  | 8324.6  | 8458.0  | 8577.3  | 8572.6  | 8541.0  | 8304.7  | 7837.9  |
| 12.5° | 7406.3  | 7447.2  | 7536.1  | 7666.0  | 7856.7  | 8074.3  | 8287.1  | 8316.4  | 8369.0  | 8171.3  | 7639.1  |
| 15°   | 6895.0  | 6930.2  | 7017.9  | 7177.0  | 7413.3  | 7705.8  | 8018.1  | 8071.9  | 8207.6  | 8067.2  | 7473.0  |
| 17.5° | 6461.0  | 6483.3  | 6547.6  | 6724.3  | 6998.0  | 7352.4  | 7758.4  | 7863.7  | 8066.1  | 7985.3  | 7329.0  |
| 20°   | 6158.1  | 6161.5  | 6203.6  | 6327.6  | 6601.4  | 6998.0  | 7489.4  | 7640.3  | 7916.3  | 7915.2  | 7180.5  |
| 22.5° | 6008.3  | 5996.7  | 6004.8  | 6076.1  | 6277.3  | 6659.9  | 7220.2  | 7399.3  | 7781.8  | 7855.5  | 7029.6  |
| 25°   | 5980.3  | 5970.8  | 5947.5  | 5956.9  | 6078.5  | 6364.0  | 6948.9  | 7156.0  | 7663.7  | 7819.2  | 6898.6  |
| 27.5° | 6068.0  | 6077.3  | 6037.5  | 5995.4  | 6004.8  | 6172.1  | 6707.9  | 6947.7  | 7567.7  | 7819.2  | 6806.2  |
| 30°   | 6244.6  | 6249.3  | 6220.0  | 6165.1  | 6091.4  | 6118.3  | 6540.6  | 6780.4  | 7519.7  | 7873.1  | 6747.7  |
| 32.5° | 6440.0  | 6465.7  | 6462.2  | 6417.7  | 6312.4  | 6203.6  | 6500.8  | 6719.5  | 7516.2  | 7992.4  | 6741.8  |
| 35°   | 6682.2  | 6711.3  | 6760.5  | 6751.1  | 6641.2  | 6462.2  | 6636.5  | 6808.5  | 7585.2  | 8188.9  | 6805.0  |
| 37.5° | 6939.5  | 6984.0  | 7089.3  | 7139.6  | 7068.2  | 6865.8  | 6940.7  | 7063.5  | 7770.1  | 8507.1  | 6965.3  |
| 40°   | 7188.7  | 7239.0  | 7430.9  | 7628.5  | 7574.7  | 7366.5  | 7401.6  | 7499.9  | 8098.8  | 8964.5  | 7269.4  |
| 42.5° | 7433.2  | 7508.1  | 7790.0  | 8115.2  | 8179.5  | 8013.5  | 8032.2  | 8110.5  | 8586.6  | 9593.8  | 7766.6  |
| 45°   | 7725.6  | 7809.8  | 8227.5  | 8628.7  | 8800.7  | 8728.2  | 8807.7  | 8859.2  | 9224.2  | 10425.6 | 8436.9  |
| 47.5° | 8155.0  | 8252.0  | 8764.5  | 9221.9  | 9523.7  | 9570.4  | 9730.8  | 9764.7  | 10030.3 | 11394.2 | 9310.7  |
| 50°   | 8992.6  | 9019.4  | 9482.7  | 9898.1  | 10333.2 | 10614.0 | 10796.5 | 10822.2 | 11005.9 | 12452.9 | 10402.2 |
| 52.5° | 10046.6 | 10064.2 | 10326.2 | 10604.6 | 11099.5 | 11672.7 | 12099.7 | 12135.9 | 12174.6 | 13484.8 | 11479.6 |
| 55°   | 11093.6 | 11091.3 | 11264.4 | 11428.2 | 11994.4 | 12827.3 | 13753.8 | 13776.0 | 13498.8 | 14464.0 | 12303.2 |
| 57.5° | 11747.6 | 11810.7 | 12074.0 | 12284.5 | 13075.3 | 14143.4 | 15429.0 | 15510.9 | 14889.8 | 15189.3 | 13117.4 |
| 60°   | 11539.4 | 11569.7 | 12153.4 | 12932.6 | 14421.8 | 16014.0 | 17124.2 | 17145.2 | 15935.6 | 15913.3 | 14146.9 |
| 62.5° | 9831.4  | 9847.8  | 10764.9 | 12371.0 | 15103.8 | 18440.2 | 19169.0 | 18826.3 | 17138.1 | 16918.2 | 15378.7 |
| 65°   | 6738.3  | 6844.7  | 7611.0  | 9596.2  | 13850.9 | 19962.1 | 22334.6 | 21767.2 | 18971.3 | 18366.5 | 16492.4 |
| 67.5° | 3968.1  | 3945.8  | 4324.9  | 5787.2  | 10173.0 | 18951.4 | 26338.9 | 25775.1 | 21471.2 | 19336.3 | 16166.1 |
| 70°   | 2710.5  | 2695.3  | 2840.4  | 3503.6  | 5742.7  | 14701.4 | 27598.9 | 28737.1 | 23678.7 | 18683.5 | 13912.9 |
| 72.5° | 1934.9  | 1943.1  | 2157.2  | 2722.3  | 3605.5  | 8565.6  | 23733.8 | 26427.9 | 22987.4 | 16287.7 | 10575.4 |
| 75°   | 1313.8  | 1335.9  | 1642.4  | 2233.2  | 3160.9  | 4357.7  | 16842.2 | 20089.7 | 18718.6 | 11837.6 | 6078.5  |
| 77.5° | 706.6   | 731.2   | 1092.6  | 1799.2  | 2857.9  | 3027.5  | 10833.9 | 13826.3 | 11758.1 | 5321.7  | 1761.7  |
| 80°   | 294.8   | 308.8   | 511.2   | 1307.9  | 2469.5  | 2659.0  | 6374.5  | 8384.2  | 5010.4  | 1049.4  | 393.1   |
| 82.5° | 127.5   | 134.5   | 213.0   | 780.3   | 1846.0  | 2244.9  | 3375.0  | 4033.6  | 1518.4  | 230.5   | 197.7   |
| 85°   | 24.6    | 25.7    | 87.8    | 413.0   | 1178.0  | 1266.9  | 2187.6  | 2144.3  | 682.0   | 99.4    | 143.9   |
| 87.5° | 0.0     | 0.0     | 21.1    | 129.9   | 346.3   | 690.2   | 1334.8  | 1318.4  | 231.6   | 48.0    | 53.8    |
| 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°    | 8310.5  | 8310.5 | 8310.5 | 8310.5 | 8310.5 | 8310.5 | 8310.5 | 8310.5 | 8310.5 | 8310.5 | 8310.5 |
| 2.5°  | 8245.0  | 8164.4 | 7994.7 | 7785.3 | 7625.0 | 7448.4 | 7308.0 | 7130.2 | 7052.9 | 7056.5 | 7014.4 |
| 5°    | 8060.2  | 7894.1 | 7518.6 | 7044.8 | 6679.8 | 6303.1 | 5979.0 | 5656.2 | 5465.5 | 5403.5 | 5345.0 |
| 7.5°  | 7795.8  | 7532.6 | 6933.7 | 6203.6 | 5586.0 | 4982.4 | 4457.1 | 3995.0 | 3702.5 | 3559.8 | 3507.2 |
| 10°   | 7497.5  | 7127.8 | 6261.0 | 5299.4 | 4417.3 | 3600.8 | 2919.9 | 2328.0 | 2091.7 | 1931.4 | 1890.5 |
| 12.5° | 7235.4  | 6734.8 | 5603.5 | 4371.7 | 3324.7 | 2339.7 | 1690.4 | 1322.0 | 1161.6 | 1098.5 | 1088.0 |
| 15°   | 6988.7  | 6367.4 | 4970.6 | 3531.8 | 2302.2 | 1440.1 | 1075.1 | 949.9  | 912.5  | 901.9  | 901.9  |
| 17.5° | 6755.9  | 6017.7 | 4351.8 | 2704.7 | 1523.2 | 1009.6 | 890.3  | 862.1  | 850.5  | 849.3  | 850.5  |
| 20°   | 6512.5  | 5667.9 | 3743.5 | 1981.7 | 1063.4 | 855.2  | 822.4  | 807.2  | 803.6  | 803.6  | 803.6  |
| 22.5° | 6279.7  | 5318.1 | 3151.5 | 1415.5 | 852.8  | 780.3  | 763.9  | 753.3  | 749.9  | 748.7  | 746.4  |
| 25°   | 6056.3  | 4985.8 | 2573.7 | 1000.2 | 748.7  | 714.8  | 700.7  | 686.7  | 676.2  | 670.3  | 666.8  |
| 27.5° | 5872.6  | 4689.9 | 2035.5 | 802.5  | 676.2  | 647.0  | 629.4  | 608.3  | 582.6  | 570.9  | 566.2  |
| 30°   | 5726.4  | 4419.6 | 1568.7 | 677.3  | 608.3  | 579.0  | 552.1  | 515.9  | 478.4  | 458.6  | 457.4  |
| 32.5° | 5611.7  | 4154.1 | 1190.9 | 599.0  | 547.5  | 511.2  | 472.6  | 427.0  | 383.7  | 361.4  | 360.3  |
| 35°   | 5555.6  | 3920.1 | 910.1  | 541.6  | 493.6  | 448.1  | 400.1  | 349.8  | 307.7  | 286.6  | 284.3  |
| 37.5° | 5593.0  | 3722.5 | 710.1  | 493.6  | 448.1  | 395.4  | 339.3  | 286.6  | 249.2  | 230.5  | 229.3  |
| 40°   | 5729.9  | 3596.1 | 576.7  | 452.7  | 409.4  | 345.1  | 284.3  | 235.1  | 203.5  | 188.4  | 187.1  |
| 42.5° | 6021.2  | 3549.3 | 492.5  | 418.8  | 372.0  | 298.3  | 236.3  | 194.2  | 165.0  | 154.5  | 152.1  |
| 45°   | 6507.8  | 3618.3 | 435.2  | 386.0  | 333.4  | 253.8  | 195.3  | 159.1  | 133.4  | 125.2  | 124.0  |
| 47.5° | 7156.0  | 3799.7 | 394.2  | 354.5  | 298.3  | 214.1  | 162.6  | 128.6  | 108.8  | 100.6  | 99.4   |
| 50°   | 7991.2  | 4087.4 | 360.3  | 322.9  | 265.6  | 181.3  | 134.5  | 101.8  | 84.2   | 78.3   | 78.3   |
| 52.5° | 8900.2  | 4430.2 | 329.9  | 293.6  | 232.8  | 150.9  | 108.8  | 78.3   | 66.7   | 59.6   | 59.6   |
| 55°   | 9651.2  | 4729.7 | 297.2  | 271.4  | 193.0  | 125.2  | 83.1   | 59.6   | 49.1   | 45.6   | 45.6   |
| 57.5° | 10401.1 | 5049.1 | 259.7  | 232.8  | 154.5  | 101.8  | 63.2   | 44.4   | 36.2   | 33.9   | 33.9   |
| 60°   | 11373.2 | 5439.8 | 223.5  | 189.5  | 121.7  | 77.2   | 46.8   | 31.6   | 26.9   | 25.7   | 25.7   |
| 62.5° | 12442.4 | 5669.0 | 190.7  | 152.1  | 94.7   | 57.3   | 33.9   | 21.1   | 19.8   | 19.8   | 18.7   |
| 65°   | 13096.3 | 5345.0 | 160.2  | 121.7  | 73.7   | 43.3   | 22.3   | 15.2   | 17.5   | 16.4   | 14.1   |
| 67.5° | 12262.2 | 4184.5 | 131.1  | 94.7   | 57.3   | 32.8   | 14.1   | 10.5   | 18.7   | 15.2   | 11.7   |
| 70°   | 10153.0 | 2929.3 | 101.8  | 66.7   | 45.6   | 28.0   | 9.3    | 7.0    | 19.8   | 15.2   | 9.3    |
| 72.5° | 7598.1  | 1960.6 | 80.8   | 44.4   | 33.9   | 24.6   | 8.2    | 3.5    | 17.5   | 12.9   | 8.2    |
| 75°   | 4151.7  | 789.7  | 64.4   | 28.0   | 21.1   | 17.5   | 5.9    | 2.3    | 11.7   | 9.3    | 5.9    |
| 77.5° | 1092.6  | 208.2  | 46.8   | 18.7   | 11.7   | 7.0    | 3.5    | 1.2    | 5.9    | 4.7    | 2.3    |
| 80°   | 278.4   | 80.8   | 30.5   | 12.9   | 8.2    | 3.5    | 0.0    | 0.0    | 1.2    | 0.0    | 0.0    |
| 82.5° | 148.6   | 33.9   | 18.7   | 9.3    | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 112.3   | 22.3   | 10.5   | 5.9    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 43.3    | 7.0    | 3.5    | 0.0    | 0.0    | 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)