

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: P647547

Luminaire Tested: **GALN-SA7D-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42112.9 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

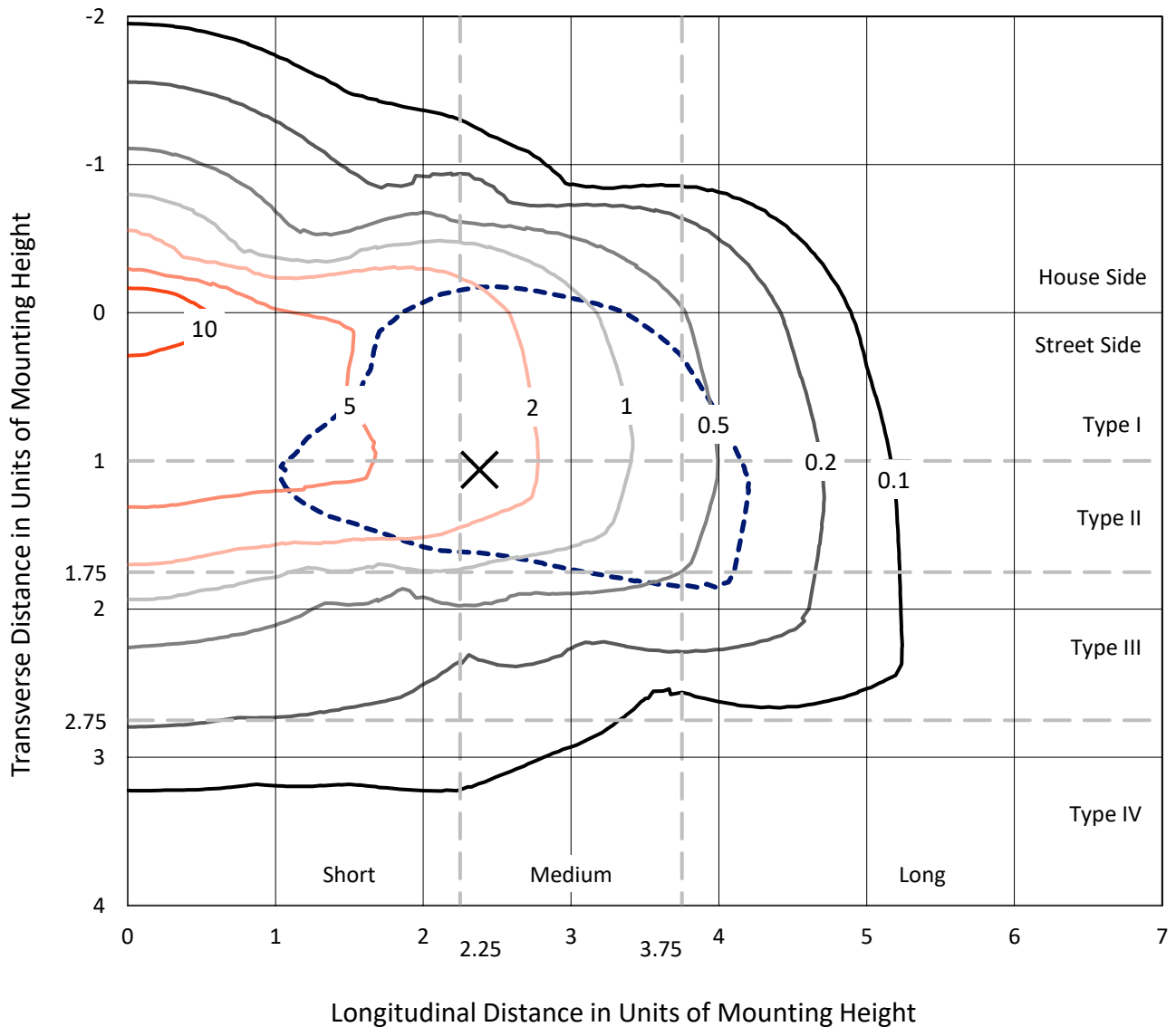
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

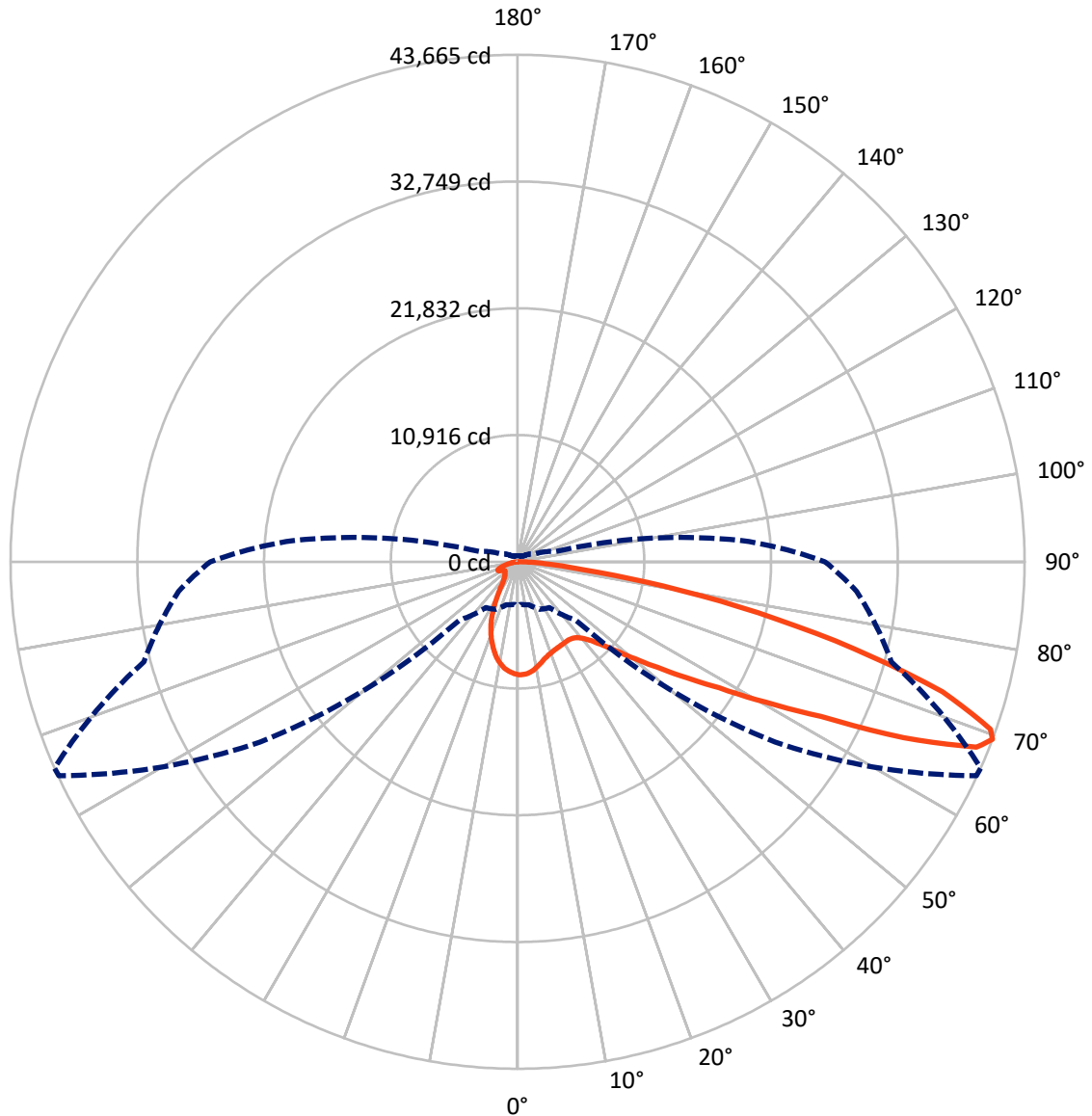
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7919.8   | 0.0    | 7919.8  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 34193.0  | 0.0    | 34193.0 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 42112.9  | 0.0    | 42112.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 844.5   | 2.0       |
| 10°-20°   | 2003.1  | 4.8       |
| 20°-30°   | 2727.0  | 6.5       |
| 30°-40°   | 3664.5  | 8.7       |
| 40°-50°   | 5471.7  | 13.0      |
| 50°-60°   | 8703.6  | 20.7      |
| 60°-70°   | 10704.9 | 25.4      |
| 70°-80°   | 6965.1  | 16.5      |
| 80°-90°   | 1028.5  | 2.4       |
| 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°    | 42112.9 | 100.0     |
| 0°-180°   | 42112.9 | 100.0     |

**Coefficient of Utilization**

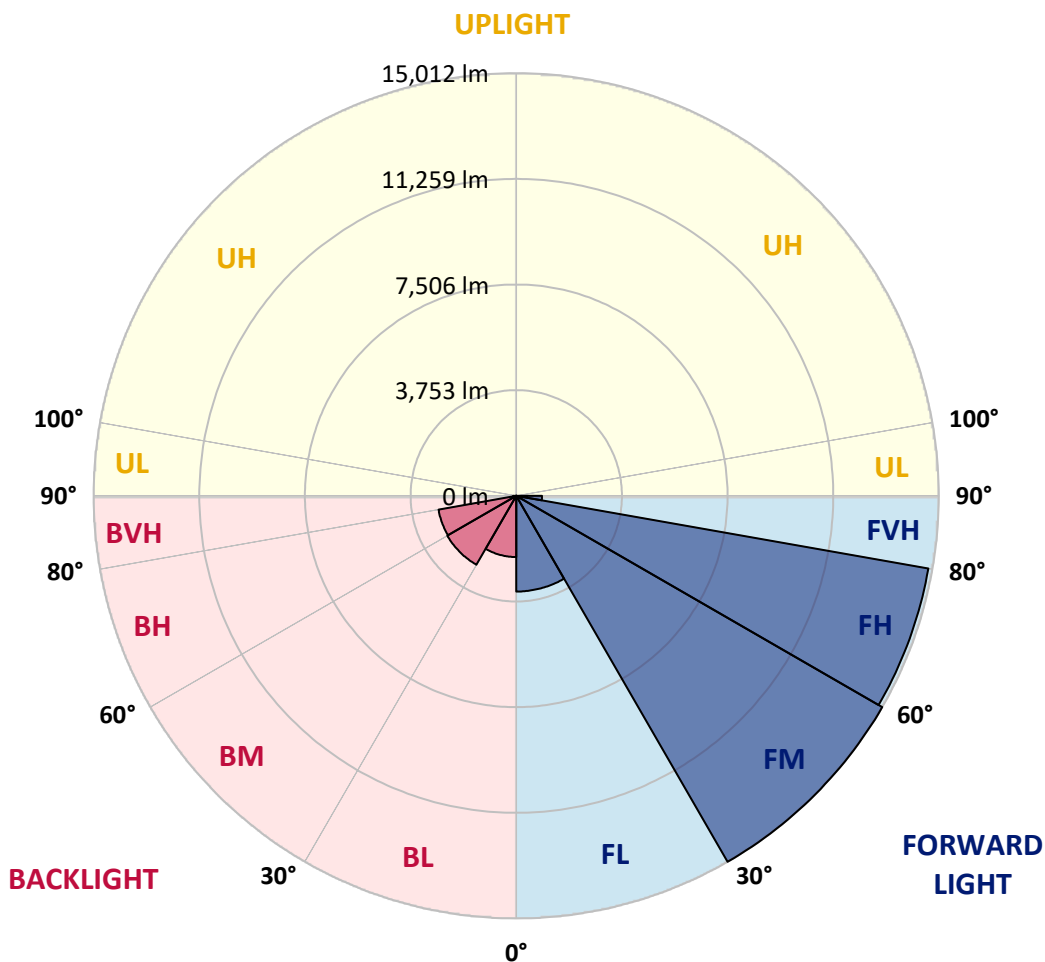


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3400.6  | 8.1       |                         |      |         |
| FM (30°-60°)   | 15012.0 | 35.6      |                         |      |         |
| FH (60°-80°)   | 14866.1 | 35.3      |                         |      | G5      |
| FVH (80°-90°)  | 914.4   | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 2174.0  | 5.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 2827.7  | 6.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 2804.0  | 6.7       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 114.1   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9725.0  | 9725.0  | 9725.0  | 9725.0  | 9725.0  | 9725.0  | 9725.0  | 9725.0  | 9725.0  | 9725.0  | 9725.0  |
| 2.5°  | 9384.6  | 9421.8  | 9463.8  | 9510.5  | 9599.1  | 9648.0  | 9683.0  | 9722.7  | 9727.4  | 9748.4  | 9732.1  |
| 5°    | 8691.9  | 8736.2  | 8799.2  | 8887.8  | 9020.7  | 9228.3  | 9442.8  | 9617.7  | 9638.7  | 9736.7  | 9764.7  |
| 7.5°  | 8113.5  | 8139.2  | 8190.5  | 8332.8  | 8521.6  | 8752.5  | 9065.0  | 9419.5  | 9470.9  | 9704.0  | 9785.7  |
| 10°   | 7642.4  | 7668.1  | 7728.7  | 7875.6  | 8062.2  | 8351.4  | 8694.2  | 9160.6  | 9202.6  | 9603.7  | 9790.3  |
| 12.5° | 7290.3  | 7313.6  | 7378.9  | 7523.5  | 7738.1  | 8008.6  | 8386.4  | 8880.8  | 8941.5  | 9470.9  | 9746.0  |
| 15°   | 7022.1  | 7066.4  | 7120.1  | 7239.0  | 7465.2  | 7726.4  | 8092.5  | 8624.3  | 8673.2  | 9330.9  | 9715.7  |
| 17.5° | 6907.8  | 6928.8  | 6966.1  | 7075.7  | 7241.3  | 7497.9  | 7866.3  | 8423.7  | 8482.0  | 9233.0  | 9708.7  |
| 20°   | 6912.5  | 6933.5  | 6940.4  | 7001.1  | 7120.1  | 7341.6  | 7705.4  | 8265.1  | 8335.1  | 9146.7  | 9720.4  |
| 22.5° | 7071.0  | 7073.4  | 7047.7  | 7026.7  | 7073.4  | 7257.6  | 7591.1  | 8146.2  | 8227.8  | 9109.3  | 9729.7  |
| 25°   | 7316.0  | 7357.9  | 7320.6  | 7222.6  | 7136.3  | 7225.0  | 7546.8  | 8080.9  | 8157.8  | 9055.7  | 9718.0  |
| 27.5° | 7712.4  | 7719.4  | 7689.1  | 7556.1  | 7332.2  | 7266.9  | 7528.2  | 8031.9  | 8097.2  | 9016.1  | 9659.7  |
| 30°   | 8244.1  | 8223.1  | 8195.1  | 8048.2  | 7696.1  | 7427.9  | 7567.8  | 7987.6  | 8055.2  | 8957.8  | 9589.8  |
| 32.5° | 8782.8  | 8848.1  | 8822.5  | 8649.9  | 8192.8  | 7740.3  | 7696.1  | 7982.9  | 8038.9  | 8913.4  | 9512.8  |
| 35°   | 9354.2  | 9384.6  | 9505.8  | 9417.2  | 8948.4  | 8246.5  | 7936.3  | 8055.2  | 8099.5  | 8915.8  | 9459.2  |
| 37.5° | 9802.0  | 9883.7  | 10168.1 | 10245.1 | 9804.3  | 8915.8  | 8325.7  | 8260.4  | 8279.1  | 9030.0  | 9480.2  |
| 40°   | 10343.0 | 10483.0 | 10849.1 | 11163.9 | 10874.8 | 9785.7  | 8988.1  | 8640.6  | 8663.9  | 9305.3  | 9617.7  |
| 42.5° | 11028.7 | 11126.7 | 11618.7 | 12045.5 | 11998.8 | 10935.4 | 9790.3  | 9263.3  | 9274.9  | 9853.3  | 10002.6 |
| 45°   | 11831.0 | 11970.9 | 12523.6 | 13165.0 | 13274.6 | 12236.7 | 10949.4 | 10205.5 | 10198.4 | 10704.5 | 10720.8 |
| 47.5° | 12857.1 | 12943.4 | 13491.4 | 14191.1 | 14634.2 | 13871.5 | 12355.7 | 11558.1 | 11483.5 | 11945.2 | 11812.3 |
| 50°   | 13801.6 | 13936.9 | 14352.0 | 15116.9 | 16220.1 | 15786.3 | 14205.1 | 13311.9 | 13136.9 | 13568.4 | 13344.5 |
| 52.5° | 14198.1 | 14340.3 | 14690.2 | 15639.3 | 17579.7 | 18263.0 | 16553.6 | 15403.8 | 15112.3 | 15443.4 | 15361.8 |
| 55°   | 13510.1 | 13694.4 | 14020.9 | 15175.2 | 18176.7 | 21119.9 | 19720.6 | 17822.3 | 17610.0 | 17467.7 | 17491.0 |
| 57.5° | 11660.7 | 11835.6 | 12276.4 | 13549.7 | 17463.1 | 23193.2 | 24242.6 | 20931.0 | 20476.2 | 19820.9 | 19932.8 |
| 60°   | 8876.2  | 8985.7  | 9214.3  | 10625.2 | 15347.8 | 23731.9 | 29378.0 | 24860.6 | 24571.5 | 22164.7 | 22243.9 |
| 62.5° | 6303.8  | 6427.4  | 6586.0  | 7290.3  | 11236.3 | 22213.6 | 33398.6 | 30348.1 | 29315.1 | 24592.5 | 24515.5 |
| 65°   | 5119.0  | 5035.1  | 5226.4  | 5555.2  | 6592.9  | 17215.9 | 34303.5 | 37964.9 | 36542.3 | 27789.8 | 26721.7 |
| 67.5° | 4209.5  | 4120.9  | 4309.8  | 4895.2  | 5014.1  | 9993.2  | 31043.1 | 42909.1 | 42624.6 | 31267.0 | 28962.9 |
| 69°   | 3726.8  | 3680.1  | 3845.7  | 4512.7  | 4813.6  | 7096.7  | 27043.5 | 43597.0 | 43664.7 | 33317.0 | 29308.0 |
| 70°   | 3358.3  | 3376.9  | 3537.8  | 4319.1  | 4722.6  | 5851.4  | 23113.8 | 42647.9 | 43221.6 | 34340.8 | 28934.9 |
| 72.5° | 2472.1  | 2511.7  | 2735.6  | 3577.5  | 4636.3  | 4965.2  | 13755.0 | 37251.3 | 38265.8 | 34401.4 | 26469.8 |
| 75°   | 1728.1  | 1709.4  | 1907.7  | 2693.6  | 4379.8  | 4920.8  | 8078.5  | 28808.9 | 29958.7 | 29734.8 | 22241.7 |
| 77.5° | 1131.1  | 1161.4  | 1320.0  | 1903.0  | 3684.8  | 4883.5  | 5266.0  | 20438.9 | 21185.2 | 19886.2 | 13155.6 |
| 80°   | 797.6   | 795.3   | 883.9   | 1299.0  | 2733.3  | 4692.3  | 4312.1  | 12882.8 | 12693.8 | 7815.0  | 3901.7  |
| 82.5° | 457.1   | 489.8   | 592.3   | 914.2   | 1828.4  | 4130.2  | 3967.0  | 6161.5  | 5625.2  | 2227.2  | 1317.6  |
| 85°   | 254.2   | 265.8   | 352.1   | 552.7   | 1068.1  | 3111.1  | 3463.2  | 2803.2  | 2644.7  | 930.5   | 566.7   |
| 87.5° | 81.6    | 88.6    | 146.9   | 279.8   | 485.1   | 1469.2  | 1961.3  | 1294.4  | 1194.1  | 335.8   | 228.6   |
| 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°    | 9725.0  | 9725.0  | 9725.0 | 9725.0 | 9725.0 | 9725.0 | 9725.0 | 9725.0 | 9725.0 | 9725.0 | 9725.0 |
| 2.5°  | 9739.0  | 9767.0  | 9692.4 | 9620.1 | 9554.8 | 9463.8 | 9382.2 | 9314.6 | 9267.9 | 9260.9 | 9237.6 |
| 5°    | 9771.7  | 9774.0  | 9631.8 | 9440.5 | 9254.0 | 9048.7 | 8836.5 | 8684.9 | 8542.6 | 8463.4 | 8423.7 |
| 7.5°  | 9795.0  | 9774.0  | 9517.4 | 9207.3 | 8848.1 | 8475.0 | 8101.9 | 7803.4 | 7572.5 | 7481.5 | 7516.5 |
| 10°   | 9785.7  | 9720.4  | 9344.9 | 8848.1 | 8325.7 | 7768.4 | 7231.9 | 6812.2 | 6427.4 | 6229.2 | 6233.9 |
| 12.5° | 9734.3  | 9627.1  | 9088.4 | 8444.7 | 7677.4 | 6931.1 | 6110.2 | 5543.5 | 5098.0 | 4834.6 | 4752.9 |
| 15°   | 9690.0  | 9503.5  | 8787.5 | 7896.6 | 6942.8 | 5877.0 | 4876.5 | 4176.8 | 3803.7 | 3596.2 | 3593.8 |
| 17.5° | 9643.4  | 9384.6  | 8458.7 | 7316.0 | 6098.6 | 4727.3 | 3677.8 | 3143.7 | 2968.8 | 2989.8 | 2954.8 |
| 20°   | 9594.4  | 9244.6  | 8115.9 | 6669.9 | 5070.1 | 3526.2 | 2754.3 | 2537.4 | 2586.3 | 2681.9 | 2695.9 |
| 22.5° | 9538.4  | 9095.3  | 7747.4 | 5958.6 | 3988.0 | 2654.0 | 2234.2 | 2201.6 | 2327.5 | 2476.7 | 2497.7 |
| 25°   | 9452.1  | 8908.8  | 7283.3 | 5214.7 | 3076.1 | 2138.6 | 1956.6 | 1980.0 | 2103.6 | 2229.5 | 2243.5 |
| 27.5° | 9330.9  | 8677.9  | 6814.5 | 4286.5 | 2311.2 | 1835.4 | 1788.8 | 1819.1 | 1879.7 | 1956.6 | 1975.4 |
| 30°   | 9167.7  | 8416.7  | 6275.8 | 3484.2 | 1851.7 | 1683.8 | 1665.1 | 1681.5 | 1716.5 | 1749.1 | 1758.5 |
| 32.5° | 9004.4  | 8164.8  | 5732.4 | 2668.0 | 1651.2 | 1583.5 | 1564.9 | 1564.9 | 1564.9 | 1569.5 | 1571.9 |
| 35°   | 8852.8  | 7926.9  | 5149.4 | 2077.9 | 1546.2 | 1504.2 | 1478.5 | 1450.6 | 1446.0 | 1429.6 | 1429.6 |
| 37.5° | 8768.8  | 7710.0  | 4529.0 | 1739.7 | 1469.2 | 1438.9 | 1403.9 | 1357.3 | 1331.6 | 1334.0 | 1329.3 |
| 40°   | 8785.2  | 7567.8  | 3964.6 | 1548.5 | 1406.3 | 1373.6 | 1320.0 | 1266.3 | 1250.1 | 1250.1 | 1245.4 |
| 42.5° | 8969.4  | 7521.2  | 3423.6 | 1448.2 | 1345.7 | 1308.3 | 1240.7 | 1191.7 | 1182.4 | 1180.1 | 1184.8 |
| 45°   | 9393.9  | 7635.4  | 2938.5 | 1382.9 | 1294.4 | 1238.4 | 1170.7 | 1126.4 | 1117.1 | 1117.1 | 1114.8 |
| 47.5° | 10221.8 | 8006.3  | 2591.0 | 1341.0 | 1257.0 | 1184.8 | 1114.8 | 1070.4 | 1054.2 | 1049.5 | 1049.5 |
| 50°   | 11509.1 | 8810.9  | 2332.2 | 1303.7 | 1210.4 | 1135.7 | 1063.5 | 1012.2 | 986.5  | 984.2  | 981.8  |
| 52.5° | 13297.8 | 10065.5 | 2231.9 | 1275.7 | 1159.1 | 1084.5 | 1005.1 | 956.2  | 923.5  | 916.5  | 911.9  |
| 55°   | 15389.8 | 11817.0 | 2369.4 | 1254.7 | 1105.4 | 1026.1 | 944.5  | 893.2  | 862.9  | 848.9  | 846.6  |
| 57.5° | 17812.9 | 13920.6 | 2891.9 | 1226.7 | 1056.4 | 963.2  | 883.9  | 832.6  | 799.9  | 783.6  | 778.9  |
| 60°   | 19988.8 | 16082.4 | 3803.7 | 1210.4 | 1014.5 | 895.5  | 813.9  | 767.3  | 737.0  | 720.6  | 718.3  |
| 62.5° | 22379.2 | 18144.1 | 4892.8 | 1254.7 | 995.8  | 830.2  | 748.6  | 706.7  | 681.0  | 664.7  | 664.7  |
| 65°   | 24932.9 | 20208.0 | 5613.5 | 1403.9 | 1023.8 | 778.9  | 678.6  | 643.7  | 620.4  | 608.7  | 606.4  |
| 67.5° | 26654.0 | 20921.7 | 4624.6 | 1557.9 | 1093.8 | 722.9  | 611.1  | 583.0  | 569.0  | 557.4  | 557.4  |
| 69°   | 26467.5 | 20019.1 | 3411.9 | 1597.6 | 1114.8 | 695.0  | 573.7  | 552.7  | 534.1  | 529.4  | 524.8  |
| 70°   | 25877.4 | 18990.6 | 2859.2 | 1571.9 | 1098.5 | 669.3  | 550.4  | 524.8  | 508.4  | 503.7  | 501.4  |
| 72.5° | 23048.5 | 16469.6 | 2129.2 | 1366.6 | 935.2  | 580.7  | 487.4  | 464.1  | 450.1  | 443.1  | 443.1  |
| 75°   | 19149.2 | 13461.1 | 1662.8 | 1086.8 | 732.3  | 489.8  | 417.4  | 398.8  | 387.1  | 382.5  | 380.1  |
| 77.5° | 10732.5 | 7516.5  | 1194.1 | 851.2  | 555.1  | 396.4  | 349.8  | 333.5  | 321.8  | 317.2  | 317.2  |
| 80°   | 2989.8  | 2147.9  | 702.0  | 562.0  | 377.8  | 300.8  | 277.5  | 265.8  | 249.5  | 237.9  | 244.8  |
| 82.5° | 1126.4  | 930.5   | 401.1  | 338.2  | 240.2  | 200.5  | 193.6  | 184.2  | 177.3  | 160.9  | 160.9  |
| 85°   | 548.0   | 452.4   | 256.5  | 179.5  | 133.0  | 104.9  | 100.3  | 95.6   | 91.0   | 79.3   | 81.6   |
| 87.5° | 188.9   | 200.5   | 112.0  | 65.3   | 39.6   | 25.7   | 21.0   | 11.7   | 11.7   | 11.7   | 11.7   |
| 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)