

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: P457185

Luminaire Tested: **GALN-SA8C-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42314 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

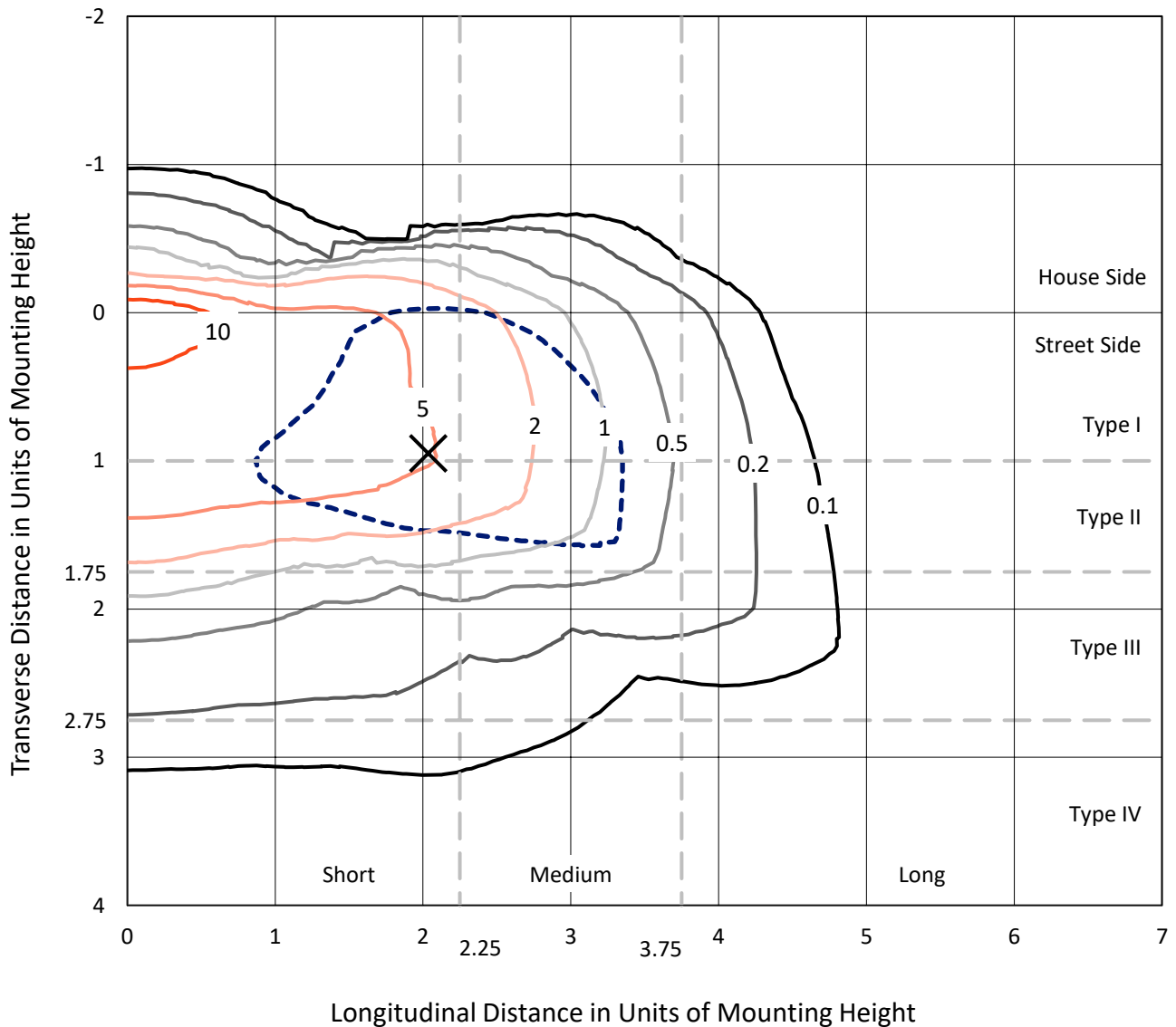
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

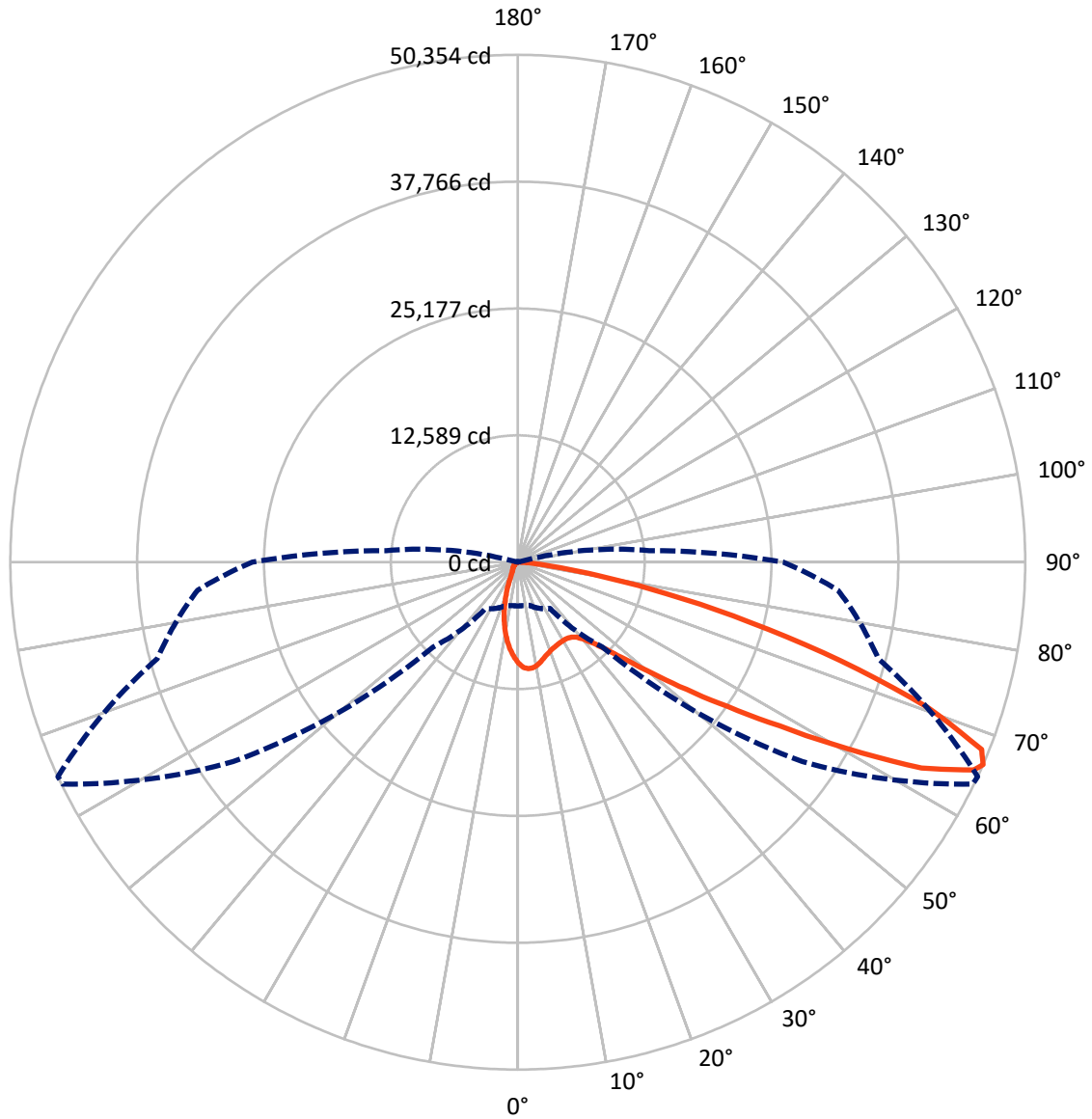
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4375.9   | 0.0    | 4375.9  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 37938.1  | 0.0    | 37938.1 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 42314.0  | 0.0    | 42314.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 820.6   | 1.9       |
| 10°-20°   | 1788.1  | 4.2       |
| 20°-30°   | 2561.4  | 6.1       |
| 30°-40°   | 3741.2  | 8.8       |
| 40°-50°   | 6273.3  | 14.8      |
| 50°-60°   | 10469.1 | 24.7      |
| 60°-70°   | 11112.6 | 26.3      |
| 70°-80°   | 5032.9  | 11.9      |
| 80°-90°   | 515.0   | 1.2       |
| 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°    | 42314.0 | 100.0     |
| 0°-180°   | 42314.0 | 100.0     |

**Coefficient of Utilization**

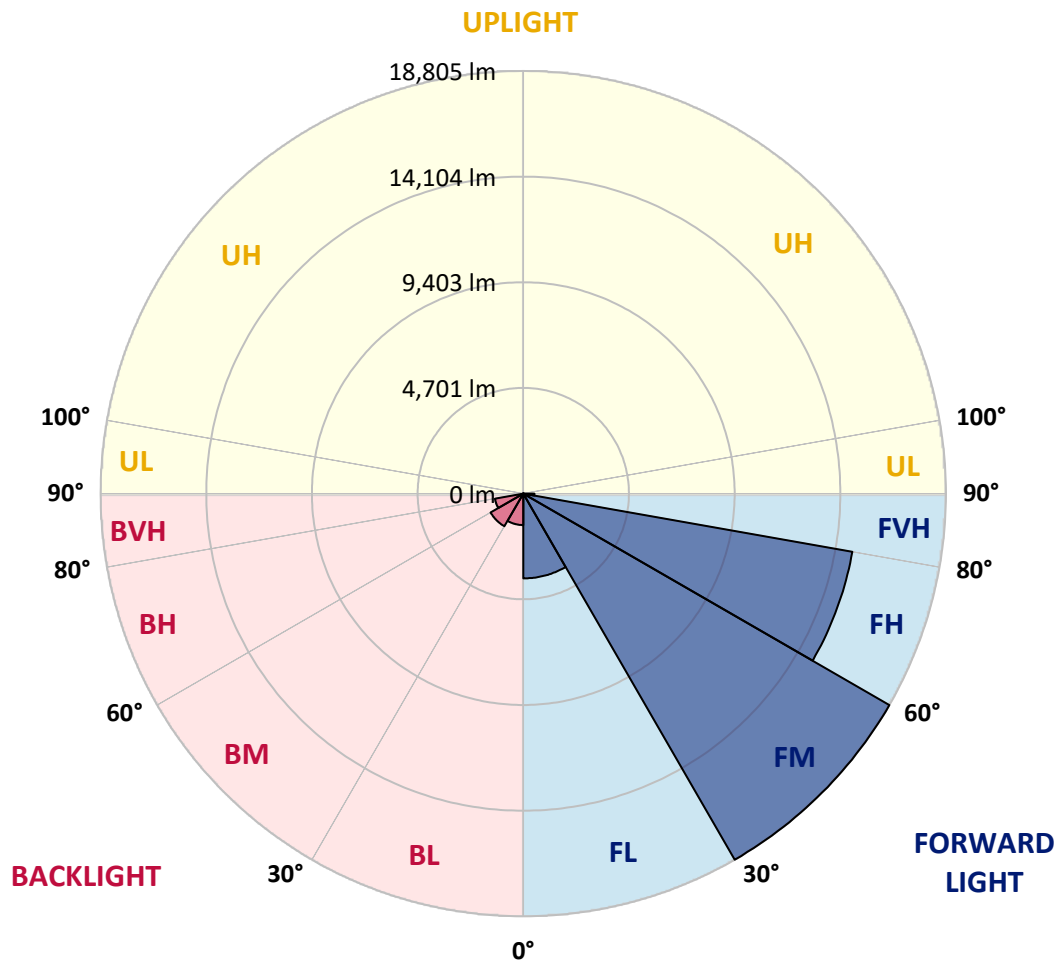


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3770.3  | 8.9       |                         |      |         |
| FM (30°-60°)   | 18805.3 | 44.4      |                         |      |         |
| FH (60°-80°)   | 14863.9 | 35.1      |                         |      | G5      |
| FVH (80°-90°)  | 498.6   | 1.2       |                         |      | G3/500  |
| BL (0°-30°)    | 1399.8  | 3.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 1678.2  | 4.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 1281.5  | 3.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 16.4    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 |
| 2.5°  | 10574.4 | 10585.8 | 10600.1 | 10620.1 | 10634.4 | 10591.5 | 10531.5 | 10462.9 | 10448.6 | 10302.9 | 10125.7 |
| 5°    | 10008.5 | 10025.6 | 10151.4 | 10220.0 | 10374.3 | 10514.3 | 10602.9 | 10614.4 | 10608.7 | 10471.5 | 10188.5 |
| 7.5°  | 9202.6  | 9251.1  | 9374.0  | 9494.1  | 9782.7  | 10048.5 | 10362.9 | 10582.9 | 10597.2 | 10560.1 | 10208.5 |
| 10°   | 8548.1  | 8579.5  | 8642.4  | 8879.6  | 9119.7  | 9525.5  | 9965.6  | 10380.0 | 10414.3 | 10562.9 | 10191.4 |
| 12.5° | 8036.5  | 8082.2  | 8159.4  | 8342.3  | 8631.0  | 9013.9  | 9514.1  | 10071.4 | 10142.8 | 10508.6 | 10142.8 |
| 15°   | 7679.3  | 7702.1  | 7779.3  | 7959.3  | 8239.4  | 8593.8  | 9099.7  | 9748.4  | 9811.3  | 10437.2 | 10134.2 |
| 17.5° | 7510.7  | 7536.4  | 7590.7  | 7733.6  | 7965.1  | 8293.7  | 8788.2  | 9488.3  | 9568.4  | 10391.5 | 10165.7 |
| 20°   | 7556.4  | 7579.2  | 7582.1  | 7656.4  | 7813.6  | 8090.8  | 8559.5  | 9245.4  | 9348.3  | 10362.9 | 10217.1 |
| 22.5° | 7816.5  | 7819.3  | 7785.0  | 7750.7  | 7805.0  | 8005.1  | 8419.5  | 9091.1  | 9196.8  | 10357.2 | 10277.1 |
| 25°   | 8205.1  | 8213.7  | 8156.5  | 8036.5  | 7927.9  | 8030.8  | 8388.0  | 8991.1  | 9085.4  | 10342.9 | 10314.3 |
| 27.5° | 8742.4  | 8739.6  | 8722.4  | 8522.4  | 8213.7  | 8145.1  | 8413.8  | 8936.8  | 9016.8  | 10302.9 | 10328.6 |
| 30°   | 9494.1  | 9471.2  | 9434.0  | 9208.3  | 8736.7  | 8422.3  | 8522.4  | 8902.5  | 8976.8  | 10245.7 | 10291.4 |
| 32.5° | 10234.3 | 10320.0 | 10314.3 | 10099.9 | 9511.2  | 8916.8  | 8748.1  | 8948.2  | 9002.5  | 10208.5 | 10237.1 |
| 35°   | 11097.4 | 11094.5 | 11314.6 | 11234.5 | 10545.8 | 9548.4  | 9134.0  | 9099.7  | 9142.5  | 10234.3 | 10211.4 |
| 37.5° | 11897.6 | 11971.9 | 12314.8 | 12397.7 | 11769.0 | 10440.0 | 9679.8  | 9425.5  | 9439.8  | 10408.6 | 10274.3 |
| 40°   | 12895.0 | 13037.9 | 13549.5 | 13826.7 | 13272.3 | 11763.3 | 10485.8 | 10022.8 | 10025.6 | 10837.3 | 10511.5 |
| 42.5° | 14181.1 | 14406.9 | 14884.1 | 15347.1 | 15049.9 | 13329.4 | 11694.7 | 10968.8 | 10963.0 | 11591.8 | 11054.5 |
| 45°   | 15744.4 | 15901.6 | 16444.6 | 17179.0 | 16990.4 | 15515.7 | 13455.2 | 12434.9 | 12360.6 | 12829.3 | 12017.6 |
| 47.5° | 17093.3 | 17307.7 | 17859.2 | 18696.6 | 19554.0 | 18185.0 | 15558.6 | 14449.7 | 14401.1 | 14798.4 | 13669.5 |
| 50°   | 17682.0 | 17870.7 | 18450.8 | 19625.4 | 21703.2 | 21688.9 | 18690.9 | 17390.5 | 17307.7 | 17522.0 | 16224.5 |
| 52.5° | 17036.2 | 17213.3 | 17799.2 | 19262.5 | 22714.9 | 25958.6 | 23229.3 | 21080.1 | 20980.1 | 20705.7 | 19276.8 |
| 55°   | 14824.1 | 14969.9 | 15835.8 | 17516.3 | 22326.2 | 28805.1 | 29482.5 | 25638.5 | 25249.9 | 24183.8 | 22732.0 |
| 57.5° | 11803.3 | 11729.0 | 12266.3 | 14218.2 | 20045.6 | 29759.7 | 35901.4 | 31317.3 | 30622.8 | 27190.4 | 25655.7 |
| 60°   | 8179.4  | 8408.0  | 8625.2  | 9911.3  | 15072.7 | 28104.9 | 39893.9 | 38456.4 | 37541.8 | 30148.4 | 28456.5 |
| 62.5° | 6013.1  | 6164.6  | 6307.5  | 6901.9  | 9476.9  | 22440.5 | 40599.8 | 45789.8 | 44978.2 | 33289.2 | 31128.6 |
| 65°   | 4755.6  | 4767.0  | 4824.2  | 5410.1  | 6244.6  | 14592.6 | 37207.5 | 49925.3 | 49716.6 | 36312.9 | 32211.8 |
| 66°   | 4332.6  | 4335.5  | 4424.1  | 5052.8  | 5604.4  | 11883.3 | 34489.6 | 50239.6 | 50354.0 | 37038.8 | 31894.6 |
| 67.5° | 3786.8  | 3775.3  | 3903.9  | 4541.3  | 5104.3  | 8568.1  | 29625.4 | 48965.0 | 49642.3 | 37596.1 | 30754.2 |
| 70°   | 2935.1  | 2920.8  | 3078.0  | 3809.6  | 4701.3  | 5715.9  | 19691.2 | 42043.1 | 43134.8 | 36455.8 | 27210.4 |
| 72.5° | 1954.8  | 1966.3  | 2234.9  | 3006.5  | 4487.0  | 5032.8  | 11846.1 | 31983.2 | 33526.4 | 30105.5 | 21405.9 |
| 75°   | 1140.3  | 1160.3  | 1466.1  | 2234.9  | 3895.4  | 4798.5  | 6704.7  | 22806.3 | 23792.3 | 20788.6 | 13335.1 |
| 77.5° | 597.3   | 605.9   | 820.2   | 1474.7  | 2986.5  | 4455.5  | 4467.0  | 14569.8 | 15032.7 | 10102.8 | 5278.6  |
| 80°   | 317.2   | 308.7   | 440.1   | 888.8   | 2054.9  | 3912.5  | 3623.9  | 7713.6  | 8019.4  | 3000.8  | 1334.7  |
| 82.5° | 120.0   | 131.5   | 234.4   | 583.0   | 1214.6  | 2809.4  | 3120.9  | 3409.5  | 3303.8  | 660.2   | 560.2   |
| 85°   | 22.9    | 28.6    | 100.0   | 345.8   | 611.6   | 1174.6  | 2300.6  | 1671.9  | 1549.0  | 248.6   | 322.9   |
| 87.5° | 2.9     | 5.7     | 28.6    | 82.9    | 88.6    | 397.3   | 680.2   | 463.0   | 400.1   | 91.5    | 134.3   |
| 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°    | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 | 10034.2 |
| 2.5°  | 10039.9 | 9962.8  | 9705.5  | 9451.2  | 9191.1  | 8956.8  | 8796.7  | 8536.7  | 8470.9  | 8376.6  | 8322.3  |
| 5°    | 10019.9 | 9839.9  | 9345.4  | 8805.3  | 8302.3  | 7759.3  | 7344.9  | 6944.8  | 6730.4  | 6621.8  | 6581.8  |
| 7.5°  | 9962.8  | 9677.0  | 8905.3  | 8059.4  | 7253.4  | 6441.8  | 5735.9  | 5198.6  | 4852.8  | 4615.6  | 4455.5  |
| 10°   | 9848.4  | 9454.0  | 8393.8  | 7230.6  | 6013.1  | 4941.4  | 4046.8  | 3366.6  | 2840.8  | 2675.0  | 2680.7  |
| 12.5° | 9731.3  | 9205.4  | 7822.2  | 6310.3  | 4801.3  | 3449.5  | 2500.7  | 1963.4  | 1711.9  | 1629.0  | 1611.9  |
| 15°   | 9622.7  | 8968.2  | 7262.0  | 5418.6  | 3575.3  | 2234.9  | 1611.9  | 1423.3  | 1354.7  | 1340.4  | 1337.5  |
| 17.5° | 9565.5  | 8748.1  | 6664.7  | 4398.4  | 2495.0  | 1517.6  | 1291.8  | 1240.3  | 1220.3  | 1206.0  | 1200.3  |
| 20°   | 9516.9  | 8556.7  | 6093.1  | 3443.8  | 1706.2  | 1243.2  | 1157.5  | 1108.9  | 1074.6  | 1060.3  | 1051.7  |
| 22.5° | 9482.6  | 8359.5  | 5501.5  | 2666.5  | 1306.1  | 1103.2  | 1026.0  | 963.1   | 914.5   | 897.4   | 886.0   |
| 25°   | 9431.2  | 8142.3  | 4904.2  | 1949.1  | 1100.3  | 980.3   | 891.7   | 817.4   | 754.5   | 723.1   | 717.3   |
| 27.5° | 9356.9  | 7896.5  | 4249.7  | 1443.3  | 983.1   | 871.7   | 763.1   | 671.6   | 608.7   | 574.4   | 577.3   |
| 30°   | 9236.8  | 7639.3  | 3595.3  | 1146.0  | 888.8   | 760.2   | 643.0   | 554.4   | 494.4   | 468.7   | 465.8   |
| 32.5° | 9093.9  | 7327.7  | 2995.1  | 983.1   | 803.1   | 660.2   | 537.3   | 460.1   | 414.4   | 394.4   | 391.5   |
| 35°   | 8959.6  | 7013.4  | 2383.5  | 883.1   | 714.5   | 568.7   | 451.6   | 385.8   | 351.5   | 334.4   | 337.2   |
| 37.5° | 8885.3  | 6733.3  | 1857.7  | 803.1   | 643.0   | 488.7   | 388.7   | 331.5   | 300.1   | 285.8   | 282.9   |
| 40°   | 8933.9  | 6504.7  | 1477.6  | 731.6   | 563.0   | 420.1   | 334.4   | 285.8   | 254.4   | 234.4   | 234.4   |
| 42.5° | 9162.5  | 6404.6  | 1191.8  | 663.0   | 488.7   | 363.0   | 291.5   | 245.8   | 211.5   | 191.5   | 194.3   |
| 45°   | 9859.9  | 6510.4  | 997.4   | 600.2   | 420.1   | 314.4   | 251.5   | 202.9   | 171.5   | 157.2   | 154.3   |
| 47.5° | 11017.3 | 6907.6  | 863.1   | 534.4   | 360.1   | 268.6   | 211.5   | 168.6   | 137.2   | 125.7   | 122.9   |
| 50°   | 13040.8 | 7727.9  | 763.1   | 468.7   | 305.8   | 228.6   | 174.3   | 134.3   | 108.6   | 97.2    | 97.2    |
| 52.5° | 15824.4 | 9516.9  | 691.6   | 394.4   | 257.2   | 194.3   | 142.9   | 108.6   | 85.7    | 77.2    | 74.3    |
| 55°   | 18733.8 | 11403.2 | 654.5   | 331.5   | 214.3   | 160.0   | 114.3   | 85.7    | 65.7    | 57.2    | 54.3    |
| 57.5° | 21531.7 | 12883.6 | 611.6   | 268.6   | 171.5   | 122.9   | 88.6    | 65.7    | 45.7    | 40.0    | 37.2    |
| 60°   | 24215.3 | 14081.0 | 520.1   | 214.3   | 134.3   | 88.6    | 65.7    | 45.7    | 31.4    | 25.7    | 25.7    |
| 62.5° | 26615.9 | 14778.4 | 408.7   | 171.5   | 102.9   | 62.9    | 42.9    | 34.3    | 22.9    | 17.1    | 17.1    |
| 65°   | 26896.0 | 13872.4 | 308.7   | 131.5   | 74.3    | 40.0    | 25.7    | 25.7    | 17.1    | 11.4    | 11.4    |
| 66°   | 26333.0 | 13103.6 | 271.5   | 120.0   | 65.7    | 34.3    | 22.9    | 20.0    | 14.3    | 8.6     | 8.6     |
| 67.5° | 25075.5 | 11791.8 | 234.4   | 102.9   | 54.3    | 25.7    | 17.1    | 17.1    | 11.4    | 5.7     | 5.7     |
| 70°   | 21666.0 | 9631.2  | 185.8   | 77.2    | 40.0    | 20.0    | 11.4    | 11.4    | 8.6     | 5.7     | 5.7     |
| 72.5° | 16513.1 | 7190.6  | 151.5   | 57.2    | 28.6    | 14.3    | 8.6     | 8.6     | 8.6     | 5.7     | 5.7     |
| 75°   | 9959.9  | 3872.5  | 117.2   | 42.9    | 25.7    | 11.4    | 5.7     | 8.6     | 11.4    | 8.6     | 5.7     |
| 77.5° | 3669.6  | 1317.5  | 91.5    | 34.3    | 20.0    | 11.4    | 5.7     | 5.7     | 11.4    | 8.6     | 8.6     |
| 80°   | 900.2   | 343.0   | 65.7    | 28.6    | 20.0    | 11.4    | 5.7     | 5.7     | 11.4    | 11.4    | 11.4    |
| 82.5° | 417.3   | 145.8   | 45.7    | 25.7    | 20.0    | 11.4    | 5.7     | 5.7     | 8.6     | 11.4    | 11.4    |
| 85°   | 240.1   | 68.6    | 37.2    | 28.6    | 20.0    | 11.4    | 5.7     | 5.7     | 8.6     | 11.4    | 11.4    |
| 87.5° | 97.2    | 34.3    | 34.3    | 28.6    | 22.9    | 14.3    | 5.7     | 5.7     | 5.7     | 8.6     | 8.6     |
| 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)