

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: P455654

Luminaire Tested: **GALN-SA6D-760-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-760-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32944 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

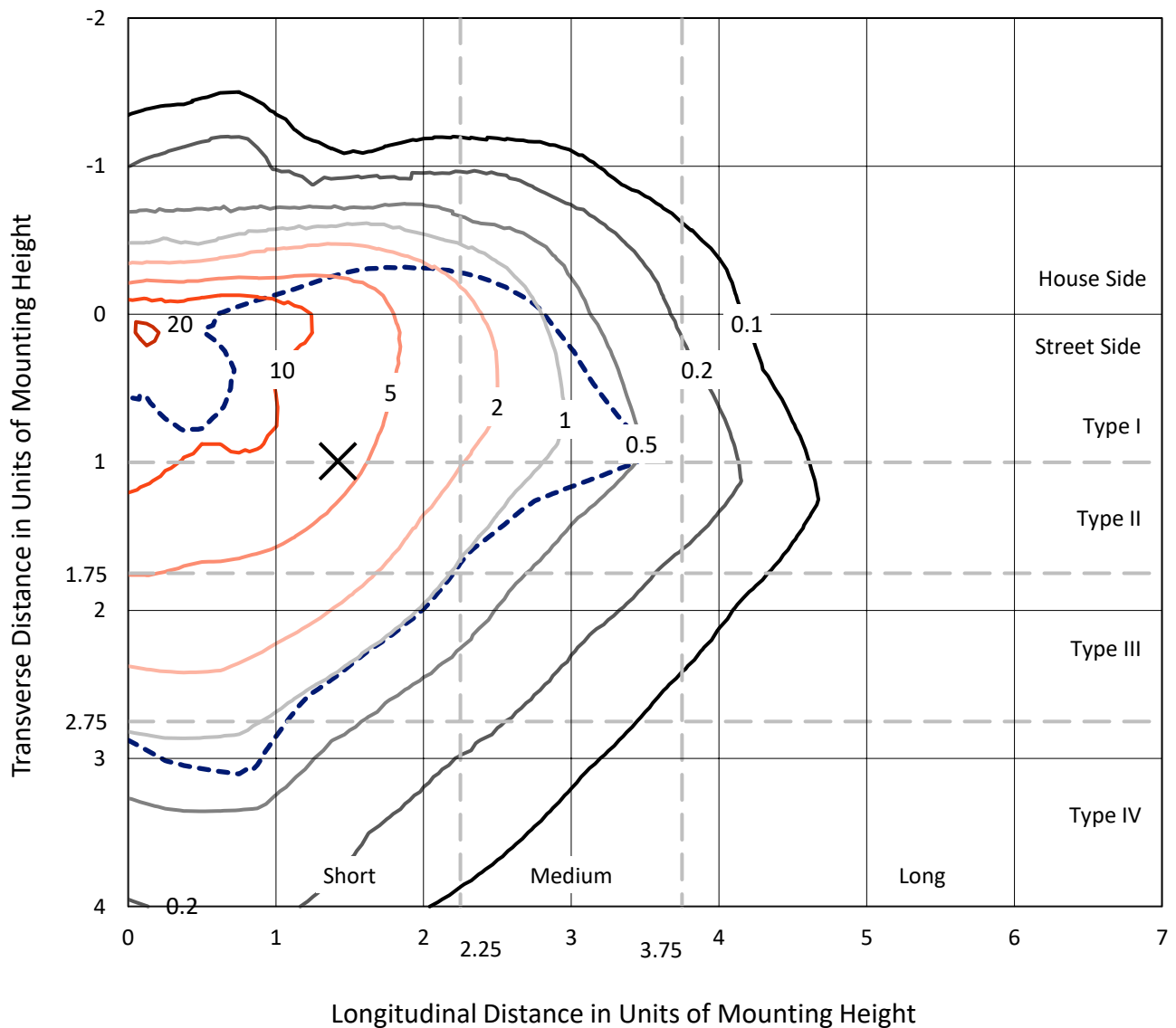
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

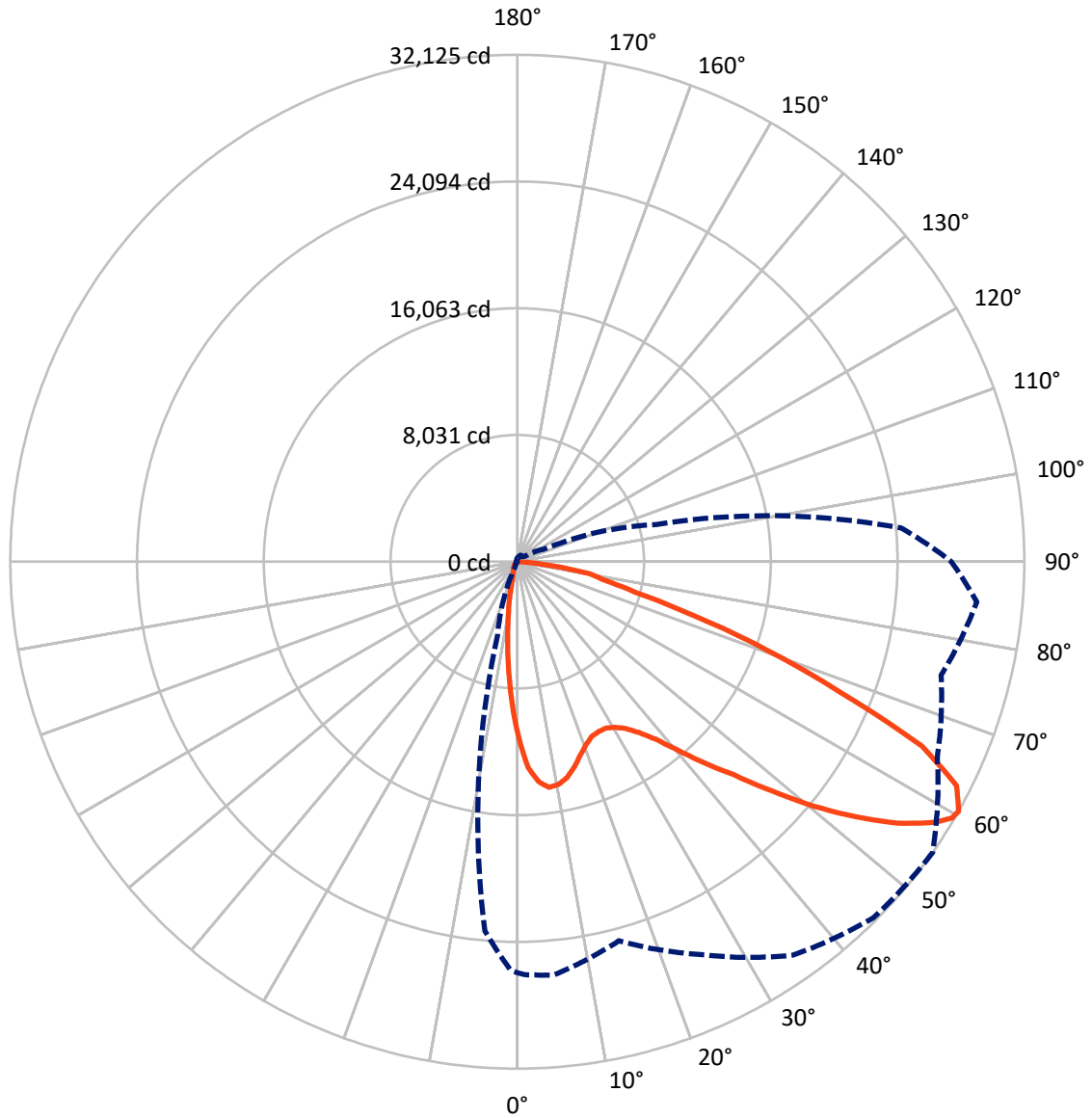
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4889.2   | 0.0    | 4889.2  |
|                    | % Fixture | 14.8     | 0.0    | 14.8    |
| <b>Street Side</b> | Lumens    | 28054.8  | 0.0    | 28054.8 |
|                    | % Fixture | 85.2     | 0.0    | 85.2    |
| <b>Total</b>       | Lumens    | 32944.0  | 0.0    | 32944.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 826.0   | 2.5       |
| 10°-20°   | 1626.6  | 4.9       |
| 20°-30°   | 2407.7  | 7.3       |
| 30°-40°   | 3588.9  | 10.9      |
| 40°-50°   | 5256.1  | 16.0      |
| 50°-60°   | 7588.1  | 23.0      |
| 60°-70°   | 7982.3  | 24.2      |
| 70°-80°   | 3283.6  | 10.0      |
| 80°-90°   | 384.6   | 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°    | 32944.0 | 100.0     |
| 0°-180°   | 32944.0 | 100.0     |

**Coefficient of Utilization**



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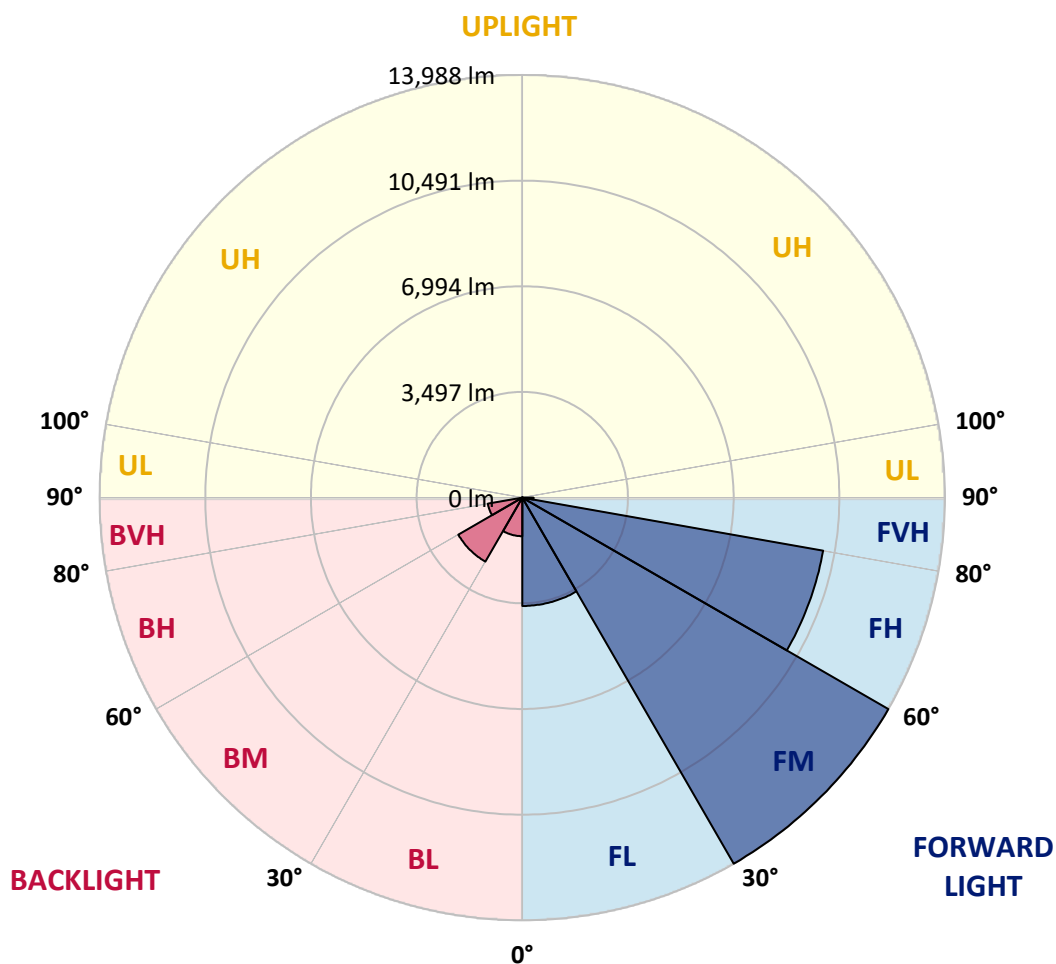
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3584.8  | 10.9      |                         |      |          |
| FM   | (30°-60°)   | 13988.1 | 42.5      |                         |      |          |
| FH   | (60°-80°)   | 10108.7 | 30.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 373.3   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1275.6  | 3.9       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2445.0  | 7.4       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1157.2  | 3.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 11.3    | 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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 |
| 2.5°  | 12186.8 | 12166.5 | 12346.5 | 12640.7 | 12937.4 | 13092.1 | 13061.6 | 13048.9 | 12803.0 | 12622.9 | 12245.1 |
| 5°    | 12161.4 | 12265.4 | 12587.4 | 13383.7 | 13987.2 | 14278.8 | 14365.0 | 14002.4 | 13523.1 | 12828.3 | 11971.3 |
| 7.5°  | 11433.7 | 11563.0 | 12087.9 | 13333.0 | 14405.6 | 15039.5 | 15016.7 | 14436.0 | 13447.1 | 12371.9 | 11149.7 |
| 10°   | 10531.0 | 10683.1 | 11299.3 | 12810.6 | 14202.7 | 15039.5 | 15085.2 | 14349.8 | 13120.0 | 11740.5 | 10454.9 |
| 12.5° | 9894.5  | 10074.5 | 10756.6 | 12323.7 | 13680.4 | 14504.5 | 14557.7 | 14025.2 | 12874.0 | 11497.1 | 10077.1 |
| 15°   | 9678.9  | 9848.8  | 10541.1 | 12077.8 | 13125.0 | 13568.8 | 13556.1 | 13500.3 | 12777.6 | 11555.4 | 10097.3 |
| 17.5° | 10049.2 | 10188.6 | 10969.6 | 12189.3 | 12605.2 | 12559.6 | 12625.5 | 12894.3 | 12797.9 | 12044.8 | 10736.3 |
| 20°   | 11005.1 | 11147.1 | 11986.5 | 12531.7 | 12207.1 | 11918.0 | 11948.4 | 12397.3 | 12985.6 | 12965.3 | 11735.4 |
| 22.5° | 12321.2 | 12562.1 | 13322.8 | 13196.0 | 12153.8 | 11519.9 | 11456.5 | 12039.7 | 13305.1 | 14025.2 | 13084.5 |
| 25°   | 13987.2 | 14230.6 | 14824.0 | 14256.0 | 12415.0 | 11426.1 | 11367.7 | 11930.7 | 13693.0 | 15059.8 | 14603.4 |
| 27.5° | 15386.9 | 15572.0 | 16162.8 | 15288.0 | 12800.4 | 11466.6 | 11370.3 | 11945.9 | 14007.5 | 15939.7 | 15883.9 |
| 30°   | 16507.7 | 16644.6 | 16992.0 | 15769.8 | 13132.6 | 11644.1 | 11532.6 | 12169.0 | 14146.9 | 16368.2 | 16921.0 |
| 32.5° | 17410.4 | 17641.2 | 17750.2 | 16284.6 | 13609.3 | 11978.9 | 11788.7 | 12597.6 | 14486.7 | 16898.2 | 18008.9 |
| 35°   | 18442.5 | 18708.7 | 18569.3 | 16776.5 | 14238.2 | 12501.2 | 12267.9 | 13292.4 | 15001.5 | 17387.6 | 19271.7 |
| 37.5° | 19750.9 | 20057.8 | 19512.6 | 17293.8 | 14902.6 | 13287.3 | 13178.3 | 14268.6 | 15782.5 | 18087.5 | 20625.8 |
| 40°   | 21105.0 | 21282.5 | 20428.0 | 17922.7 | 15719.1 | 14430.9 | 14534.9 | 15719.1 | 16804.4 | 18926.8 | 22066.1 |
| 42.5° | 22162.4 | 22329.8 | 21368.7 | 18450.1 | 16553.4 | 15787.6 | 16221.2 | 17468.8 | 17975.9 | 19786.4 | 23141.2 |
| 45°   | 22971.3 | 23113.3 | 22020.4 | 19025.7 | 17679.2 | 17752.8 | 18571.8 | 19271.7 | 19150.0 | 20311.3 | 23970.4 |
| 47.5° | 23600.2 | 23721.9 | 22522.5 | 19644.4 | 19365.5 | 20156.6 | 21409.3 | 21706.0 | 20367.1 | 20879.3 | 24721.0 |
| 50°   | 23858.8 | 23894.3 | 22679.7 | 20433.0 | 21280.0 | 23219.8 | 24525.7 | 24345.7 | 21761.8 | 21510.7 | 25519.7 |
| 52.5° | 24196.1 | 24188.5 | 23128.5 | 21183.6 | 23080.4 | 25958.4 | 27261.8 | 26853.6 | 23339.0 | 22456.6 | 26417.4 |
| 55°   | 25081.1 | 25091.2 | 24089.6 | 22248.6 | 24614.5 | 28169.6 | 29564.3 | 29267.6 | 25002.5 | 24054.1 | 27464.7 |
| 57.5° | 26156.2 | 26194.3 | 25456.4 | 23493.7 | 26080.1 | 29772.2 | 31283.5 | 31169.4 | 27251.7 | 25831.6 | 28453.6 |
| 59°   | 26295.7 | 26371.8 | 26103.0 | 24371.1 | 26949.9 | 30264.1 | 31871.8 | 31983.4 | 28456.1 | 27003.2 | 28988.6 |
| 60°   | 26042.1 | 26168.9 | 26290.6 | 24868.1 | 27459.6 | 30441.6 | 31907.3 | 32125.4 | 29361.4 | 27799.4 | 29232.1 |
| 62.5° | 24936.5 | 25136.9 | 25748.0 | 26397.1 | 28096.1 | 29888.8 | 30773.8 | 31230.2 | 30482.2 | 29891.4 | 29254.9 |
| 65°   | 23488.6 | 23592.6 | 24475.0 | 26668.4 | 26861.2 | 27307.5 | 27581.3 | 28167.1 | 29135.7 | 30697.7 | 28207.6 |
| 67.5° | 21115.2 | 21422.0 | 22502.2 | 25093.7 | 23217.3 | 22689.9 | 22621.4 | 22038.2 | 24553.6 | 28775.6 | 25626.3 |
| 70°   | 17443.4 | 17580.3 | 18911.6 | 20572.5 | 17522.0 | 16710.6 | 17035.1 | 16817.1 | 19033.3 | 24771.7 | 20625.8 |
| 72.5° | 13191.0 | 13500.3 | 14801.2 | 16398.7 | 11923.1 | 10870.7 | 11765.9 | 11684.7 | 14296.5 | 19908.1 | 14169.7 |
| 75°   | 9384.8  | 9585.1  | 11243.5 | 12833.4 | 8350.2  | 7074.7  | 7396.8  | 7698.5  | 9980.7  | 15719.1 | 8373.0  |
| 77.5° | 6448.4  | 6620.8  | 7865.9  | 8487.1  | 6090.9  | 5834.8  | 5337.7  | 5629.4  | 6539.7  | 9326.5  | 4556.7  |
| 80°   | 3889.8  | 3882.2  | 4701.3  | 4853.4  | 4242.3  | 4927.0  | 4133.3  | 4640.4  | 3953.2  | 3991.3  | 1764.9  |
| 82.5° | 2525.6  | 2500.2  | 2875.5  | 3134.2  | 2360.8  | 2482.5  | 1666.0  | 2401.4  | 2576.3  | 1113.2  | 557.9   |
| 85°   | 1130.9  | 1179.1  | 1382.0  | 1823.2  | 1034.6  | 550.3   | 339.8   | 737.9   | 1098.0  | 560.4   | 0.0     |
| 87.5° | 116.6   | 91.3    | 243.4   | 443.8   | 142.0   | 15.2    | 50.7    | 25.4    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 |
| 2.5°  | 12070.2 | 11923.1 | 11484.4 | 11073.6 | 10721.1 | 10290.1 | 10011.1 | 9572.4  | 9306.2  | 9225.0  | 9237.7  |
| 5°    | 11585.8 | 11162.4 | 10328.1 | 9661.2  | 8918.2  | 8494.7  | 7850.7  | 7231.9  | 6897.2  | 6773.0  | 6717.2  |
| 7.5°  | 10571.5 | 10117.6 | 9110.9  | 8063.7  | 7267.4  | 6524.5  | 6045.2  | 5500.0  | 5127.3  | 4820.5  | 4767.2  |
| 10°   | 9818.4  | 9222.5  | 7974.9  | 6849.1  | 6220.2  | 5662.3  | 5183.1  | 4637.9  | 4199.2  | 3849.3  | 3752.9  |
| 12.5° | 9367.0  | 8700.1  | 7308.0  | 6364.7  | 5768.8  | 5195.7  | 4572.0  | 3940.5  | 3491.7  | 3113.9  | 2938.9  |
| 15°   | 9285.9  | 8512.5  | 7120.4  | 6017.3  | 5282.0  | 4589.7  | 3760.5  | 3078.4  | 2616.9  | 2259.3  | 2150.3  |
| 17.5° | 9775.3  | 8849.8  | 7092.5  | 5654.7  | 4645.5  | 3664.2  | 2802.0  | 2236.5  | 1716.7  | 1516.4  | 1437.8  |
| 20°   | 10647.6 | 9445.7  | 7089.9  | 5233.8  | 3991.3  | 2822.3  | 1967.7  | 1458.1  | 1247.6  | 1151.2  | 1105.6  |
| 22.5° | 11836.9 | 10257.1 | 7224.3  | 4871.2  | 3311.7  | 2081.8  | 1404.8  | 1161.4  | 1039.7  | 961.0   | 943.3   |
| 25°   | 13289.8 | 11459.0 | 7554.0  | 4625.2  | 2791.9  | 1633.0  | 1158.8  | 994.0   | 892.6   | 857.1   | 841.9   |
| 27.5° | 14580.5 | 12610.3 | 7916.6  | 4371.6  | 2419.1  | 1445.4  | 1075.2  | 910.3   | 829.2   | 801.3   | 778.5   |
| 30°   | 15693.7 | 13655.0 | 8091.6  | 4036.9  | 2119.9  | 1323.7  | 1090.4  | 973.7   | 867.2   | 783.5   | 745.5   |
| 32.5° | 16621.8 | 14456.3 | 8205.7  | 3732.6  | 1866.3  | 1082.8  | 862.2   | 753.1   | 704.9   | 674.5   | 649.2   |
| 35°   | 17783.2 | 15323.5 | 8137.2  | 3560.2  | 1737.0  | 986.4   | 786.1   | 649.2   | 568.0   | 507.1   | 481.8   |
| 37.5° | 19000.3 | 16190.7 | 8018.0  | 3418.2  | 1678.7  | 915.4   | 748.0   | 616.2   | 527.4   | 464.0   | 431.1   |
| 40°   | 20260.6 | 16994.6 | 7878.6  | 3286.3  | 1625.4  | 869.8   | 725.2   | 588.3   | 499.5   | 431.1   | 395.6   |
| 42.5° | 21414.4 | 17778.1 | 7822.8  | 3200.1  | 1539.2  | 877.4   | 707.5   | 575.6   | 471.6   | 400.6   | 370.2   |
| 45°   | 22347.5 | 18521.1 | 7898.8  | 3154.5  | 1445.4  | 864.7   | 712.5   | 560.4   | 448.8   | 380.4   | 349.9   |
| 47.5° | 23344.1 | 19570.9 | 8144.8  | 3108.8  | 1354.1  | 803.8   | 750.6   | 557.9   | 438.7   | 367.7   | 334.7   |
| 50°   | 24502.9 | 20914.8 | 8707.8  | 2997.3  | 1242.5  | 737.9   | 798.8   | 555.3   | 426.0   | 352.5   | 319.5   |
| 52.5° | 26047.2 | 22441.4 | 9288.4  | 2802.0  | 1080.2  | 674.5   | 763.3   | 547.7   | 400.6   | 334.7   | 301.8   |
| 55°   | 27434.2 | 24049.0 | 9780.4  | 2571.2  | 874.8   | 583.2   | 687.2   | 514.8   | 357.5   | 304.3   | 273.9   |
| 57.5° | 28007.3 | 24956.8 | 9765.2  | 2251.7  | 699.9   | 512.2   | 565.5   | 471.6   | 311.9   | 268.8   | 243.4   |
| 59°   | 27796.8 | 24842.7 | 9438.0  | 2015.9  | 639.0   | 474.2   | 469.1   | 466.6   | 291.6   | 243.4   | 223.1   |
| 60°   | 27500.2 | 24426.8 | 9085.6  | 1899.3  | 601.0   | 448.8   | 431.1   | 461.5   | 273.9   | 228.2   | 207.9   |
| 62.5° | 26364.2 | 22702.5 | 7916.6  | 1701.5  | 550.3   | 380.4   | 344.9   | 390.5   | 243.4   | 197.8   | 180.0   |
| 65°   | 24718.5 | 20052.7 | 6702.0  | 1645.7  | 535.0   | 314.4   | 286.5   | 278.9   | 207.9   | 167.4   | 152.1   |
| 67.5° | 21508.2 | 16969.2 | 5429.0  | 1607.7  | 540.1   | 263.7   | 251.0   | 210.5   | 172.4   | 139.5   | 129.3   |
| 70°   | 17220.3 | 13231.5 | 4445.2  | 1564.6  | 545.2   | 215.5   | 210.5   | 167.4   | 139.5   | 116.6   | 106.5   |
| 72.5° | 10462.5 | 7843.1  | 3499.3  | 1359.2  | 530.0   | 172.4   | 187.6   | 126.8   | 101.4   | 83.7    | 78.6    |
| 75°   | 6468.7  | 5368.2  | 2170.6  | 1057.4  | 349.9   | 126.8   | 131.9   | 78.6    | 68.5    | 53.3    | 53.3    |
| 77.5° | 3747.8  | 3390.3  | 775.9   | 380.4   | 154.7   | 76.1    | 58.3    | 40.6    | 38.0    | 22.8    | 22.8    |
| 80°   | 1554.4  | 1245.1  | 268.8   | 129.3   | 83.7    | 35.5    | 12.7    | 2.5     | 0.0     | 0.0     | 0.0     |
| 82.5° | 453.9   | 403.2   | 73.5    | 58.3    | 25.4    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 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     |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 |
| 2.5°  | 9022.2  | 8938.5  | 8900.5  | 9029.8  | 8910.6  | 9062.8  | 8946.1  | 8996.8  | 9146.4  | 9212.4  | 9382.3  |
| 5°    | 6752.7  | 6666.5  | 6625.9  | 6821.2  | 6811.0  | 6907.4  | 6897.2  | 6986.0  | 7062.1  | 6892.2  | 7067.1  |
| 7.5°  | 4703.8  | 4645.5  | 4741.8  | 4894.0  | 5056.3  | 5003.0  | 5003.0  | 4883.8  | 4924.4  | 4899.1  | 4891.5  |
| 10°   | 3577.9  | 3377.6  | 3326.9  | 3321.8  | 3382.7  | 3395.4  | 3326.9  | 3162.1  | 3222.9  | 3240.7  | 3347.2  |
| 12.5° | 2814.7  | 2660.0  | 2424.2  | 2317.7  | 2289.8  | 2312.6  | 2086.9  | 1942.4  | 2010.8  | 1970.3  | 2074.2  |
| 15°   | 2018.5  | 1891.7  | 1752.2  | 1633.0  | 1600.1  | 1554.4  | 1308.4  | 1136.0  | 1115.7  | 1123.3  | 1141.1  |
| 17.5° | 1440.3  | 1354.1  | 1354.1  | 1227.3  | 1158.8  | 1021.9  | 897.7   | 821.6   | 814.0   | 821.6   | 834.3   |
| 20°   | 1062.5  | 1016.8  | 1011.8  | 978.8   | 902.7   | 811.4   | 725.2   | 710.0   | 704.9   | 717.6   | 722.7   |
| 22.5° | 915.4   | 867.2   | 826.7   | 824.1   | 753.1   | 677.0   | 636.5   | 616.2   | 618.7   | 623.8   | 636.5   |
| 25°   | 819.0   | 768.3   | 725.2   | 699.9   | 649.2   | 595.9   | 557.9   | 547.7   | 547.7   | 555.3   | 557.9   |
| 27.5° | 750.6   | 687.2   | 649.2   | 613.7   | 568.0   | 522.4   | 489.4   | 481.8   | 476.7   | 481.8   | 494.5   |
| 30°   | 702.4   | 639.0   | 590.8   | 537.6   | 502.1   | 459.0   | 431.1   | 420.9   | 418.4   | 420.9   | 431.1   |
| 32.5° | 601.0   | 562.9   | 524.9   | 476.7   | 433.6   | 405.7   | 375.3   | 357.5   | 357.5   | 362.6   | 372.8   |
| 35°   | 453.9   | 433.6   | 431.1   | 418.4   | 382.9   | 352.5   | 317.0   | 299.2   | 299.2   | 309.4   | 314.4   |
| 37.5° | 400.6   | 362.6   | 357.5   | 352.5   | 337.3   | 296.7   | 263.7   | 248.5   | 246.0   | 253.6   | 263.7   |
| 40°   | 365.1   | 322.0   | 299.2   | 294.1   | 296.7   | 251.0   | 215.5   | 200.3   | 200.3   | 202.9   | 213.0   |
| 42.5° | 337.3   | 286.5   | 246.0   | 240.9   | 251.0   | 210.5   | 175.0   | 159.8   | 159.8   | 159.8   | 172.4   |
| 45°   | 314.4   | 256.1   | 207.9   | 182.6   | 197.8   | 172.4   | 142.0   | 126.8   | 121.7   | 126.8   | 131.9   |
| 47.5° | 299.2   | 233.3   | 182.6   | 147.1   | 147.1   | 136.9   | 114.1   | 96.4    | 91.3    | 93.8    | 101.4   |
| 50°   | 286.5   | 213.0   | 154.7   | 119.2   | 106.5   | 109.0   | 86.2    | 73.5    | 68.5    | 68.5    | 76.1    |
| 52.5° | 266.3   | 192.7   | 134.4   | 101.4   | 81.1    | 73.5    | 63.4    | 53.3    | 50.7    | 53.3    | 58.3    |
| 55°   | 240.9   | 175.0   | 116.6   | 83.7    | 63.4    | 50.7    | 45.6    | 38.0    | 35.5    | 38.0    | 45.6    |
| 57.5° | 213.0   | 147.1   | 93.8    | 65.9    | 43.1    | 33.0    | 30.4    | 25.4    | 20.3    | 22.8    | 27.9    |
| 59°   | 195.3   | 131.9   | 81.1    | 53.3    | 33.0    | 22.8    | 22.8    | 17.8    | 12.7    | 15.2    | 22.8    |
| 60°   | 187.6   | 121.7   | 68.5    | 45.6    | 27.9    | 17.8    | 17.8    | 12.7    | 7.6     | 10.1    | 17.8    |
| 62.5° | 159.8   | 101.4   | 53.3    | 27.9    | 12.7    | 2.5     | 7.6     | 2.5     | 0.0     | 2.5     | 7.6     |
| 65°   | 134.4   | 81.1    | 35.5    | 12.7    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 2.5     |
| 67.5° | 111.6   | 60.9    | 17.8    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 70°   | 88.8    | 40.6    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72.5° | 60.9    | 22.8    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 75°   | 38.0    | 7.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 15.2    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 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     |



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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 | 11154.7 |
| 2.5°  | 9392.4  | 9755.0  | 9978.2  | 10399.1 | 10830.2 | 11162.4 | 11578.2 | 11951.0 | 12105.7 | 12186.8 |
| 5°    | 7244.6  | 7749.2  | 8177.8  | 8819.3  | 9415.2  | 10140.4 | 10875.8 | 11743.0 | 12075.2 | 12161.4 |
| 7.5°  | 5084.2  | 5598.9  | 6047.8  | 6790.7  | 7640.2  | 8611.4  | 9711.9  | 10812.4 | 11296.7 | 11433.7 |
| 10°   | 3671.8  | 4222.0  | 4769.7  | 5512.7  | 6306.4  | 7358.7  | 8504.9  | 9866.6  | 10424.5 | 10531.0 |
| 12.5° | 2317.7  | 2908.5  | 3798.5  | 4716.5  | 5555.8  | 6402.8  | 7602.2  | 9083.0  | 9699.2  | 9894.5  |
| 15°   | 1343.9  | 1785.2  | 2457.1  | 3654.0  | 4721.6  | 5842.4  | 7150.8  | 8788.9  | 9478.6  | 9678.9  |
| 17.5° | 900.2   | 1052.3  | 1513.8  | 2429.2  | 3839.1  | 5325.1  | 7036.7  | 9029.8  | 9793.1  | 10049.2 |
| 20°   | 758.2   | 826.7   | 988.9   | 1480.9  | 2956.7  | 4863.6  | 7067.1  | 9684.0  | 10685.6 | 11005.1 |
| 22.5° | 666.9   | 730.3   | 834.3   | 1065.0  | 2064.1  | 4290.5  | 7211.7  | 10619.7 | 11912.9 | 12321.2 |
| 25°   | 588.3   | 651.7   | 743.0   | 882.4   | 1387.1  | 3628.7  | 7528.6  | 11989.0 | 13538.3 | 13987.2 |
| 27.5° | 522.4   | 580.7   | 659.3   | 778.5   | 1067.5  | 2890.8  | 7810.1  | 13322.8 | 15021.8 | 15386.9 |
| 30°   | 461.5   | 509.7   | 585.8   | 677.0   | 887.5   | 2228.9  | 7952.1  | 14489.3 | 16102.0 | 16507.7 |
| 32.5° | 400.6   | 446.3   | 519.8   | 593.4   | 730.3   | 1698.9  | 7853.2  | 15346.3 | 17151.8 | 17410.4 |
| 35°   | 342.3   | 390.5   | 451.4   | 519.8   | 631.4   | 1371.8  | 7358.7  | 16309.9 | 18239.6 | 18442.5 |
| 37.5° | 294.1   | 334.7   | 398.1   | 451.4   | 570.5   | 1098.0  | 6760.3  | 17177.1 | 19459.3 | 19750.9 |
| 40°   | 248.5   | 289.1   | 352.5   | 400.6   | 524.9   | 864.7   | 6220.2  | 18140.7 | 20744.9 | 21105.0 |
| 42.5° | 202.9   | 251.0   | 306.8   | 385.4   | 451.4   | 659.3   | 5566.0  | 18921.7 | 21711.1 | 22162.4 |
| 45°   | 162.3   | 215.5   | 276.4   | 382.9   | 393.0   | 502.1   | 4934.6  | 19530.3 | 22565.6 | 22971.3 |
| 47.5° | 129.3   | 182.6   | 266.3   | 357.5   | 322.0   | 398.1   | 4574.5  | 20166.8 | 23275.6 | 23600.2 |
| 50°   | 104.0   | 152.1   | 278.9   | 314.4   | 268.8   | 337.3   | 4564.3  | 20876.8 | 23643.3 | 23858.8 |
| 52.5° | 83.7    | 124.3   | 235.8   | 240.9   | 228.2   | 296.7   | 4838.2  | 21675.6 | 24018.6 | 24196.1 |
| 55°   | 71.0    | 104.0   | 154.7   | 177.5   | 205.4   | 268.8   | 5043.6  | 22905.4 | 24913.7 | 25081.1 |
| 57.5° | 55.8    | 88.8    | 119.2   | 142.0   | 182.6   | 246.0   | 5071.5  | 23853.8 | 26047.2 | 26156.2 |
| 59°   | 48.2    | 76.1    | 106.5   | 126.8   | 167.4   | 230.8   | 4957.4  | 23912.1 | 26120.7 | 26295.7 |
| 60°   | 40.6    | 68.5    | 93.8    | 119.2   | 154.7   | 218.1   | 4833.1  | 23488.6 | 25846.9 | 26042.1 |
| 62.5° | 30.4    | 53.3    | 68.5    | 96.4    | 126.8   | 187.6   | 4244.8  | 22010.3 | 24799.6 | 24936.5 |
| 65°   | 20.3    | 38.0    | 50.7    | 71.0    | 98.9    | 162.3   | 3458.8  | 20093.3 | 23181.8 | 23488.6 |
| 67.5° | 12.7    | 27.9    | 40.6    | 53.3    | 81.1    | 136.9   | 2464.7  | 17230.4 | 20917.4 | 21115.2 |
| 70°   | 7.6     | 17.8    | 30.4    | 43.1    | 63.4    | 109.0   | 1463.1  | 13619.5 | 17402.8 | 17443.4 |
| 72.5° | 5.1     | 12.7    | 20.3    | 30.4    | 50.7    | 98.9    | 710.0   | 8877.6  | 12706.6 | 13191.0 |
| 75°   | 2.5     | 7.6     | 12.7    | 22.8    | 40.6    | 81.1    | 339.8   | 5931.1  | 9245.3  | 9384.8  |
| 77.5° | 0.0     | 2.5     | 7.6     | 15.2    | 30.4    | 63.4    | 197.8   | 3894.9  | 6303.9  | 6448.4  |
| 80°   | 0.0     | 0.0     | 5.1     | 12.7    | 22.8    | 40.6    | 119.2   | 2297.4  | 3818.8  | 3889.8  |
| 82.5° | 0.0     | 0.0     | 2.5     | 10.1    | 15.2    | 30.4    | 60.9    | 1009.2  | 2500.2  | 2525.6  |
| 85°   | 0.0     | 0.0     | 2.5     | 10.1    | 12.7    | 20.3    | 22.8    | 136.9   | 1110.7  | 1130.9  |
| 87.5° | 0.0     | 0.0     | 2.5     | 12.7    | 12.7    | 12.7    | 12.7    | 7.6     | 93.8    | 116.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)