

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: P456583

Luminaire Tested: **GALN-SA7D-760-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-760-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46445 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

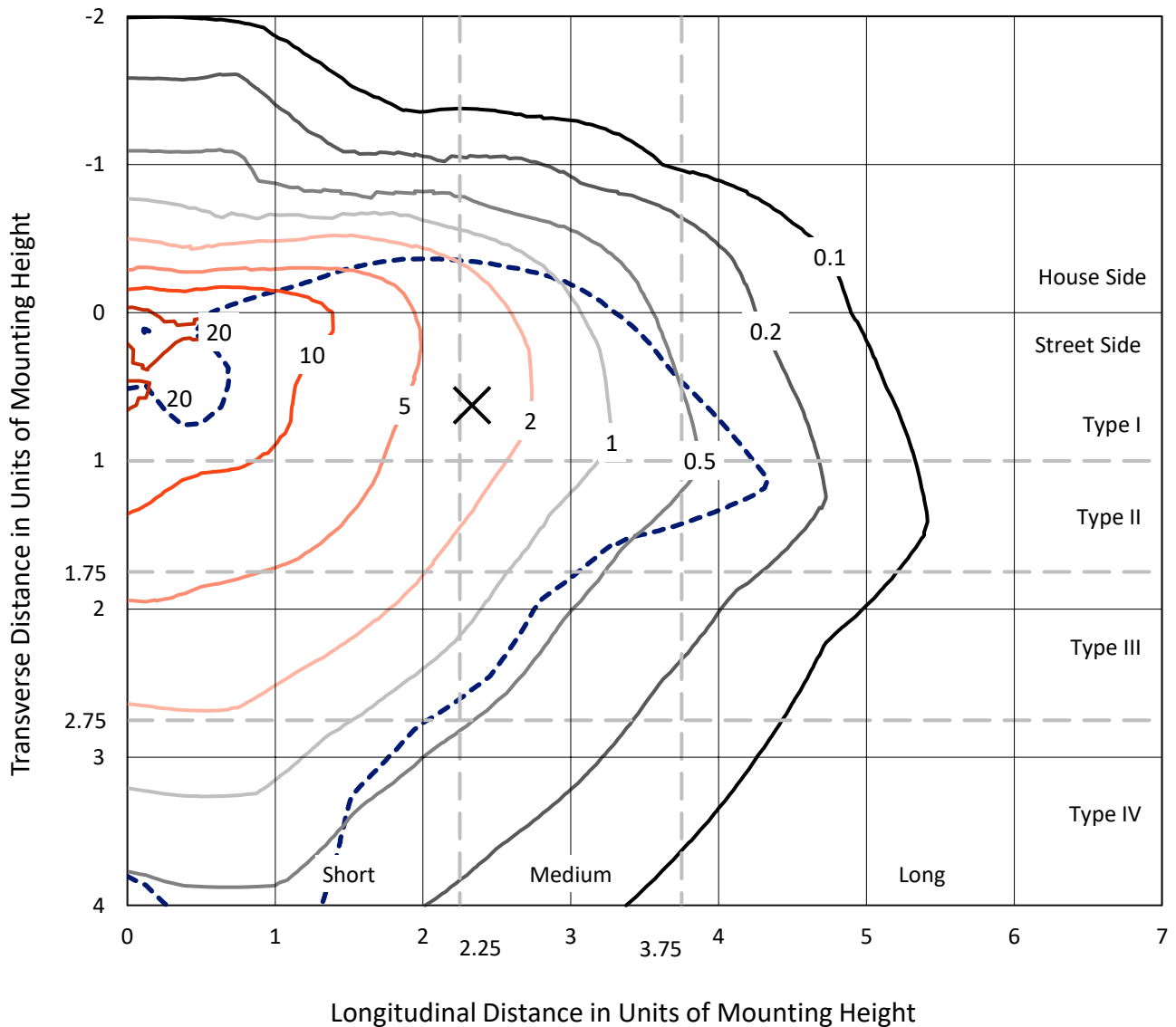
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

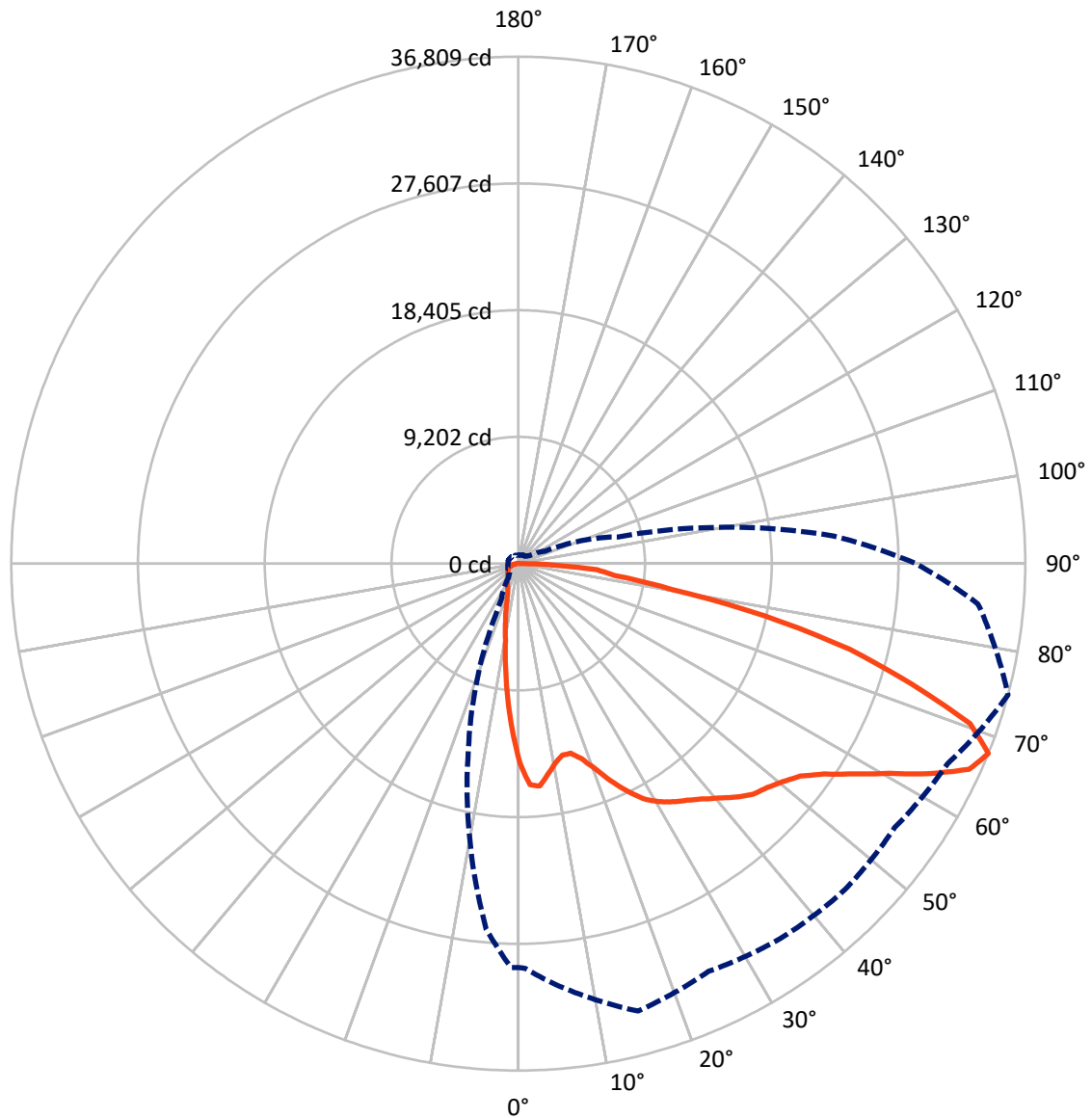
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7850.2   | 0.0    | 7850.2  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 38594.8  | 0.0    | 38594.8 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 46445.0  | 0.0    | 46445.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1100.6  | 2.4       |
| 10°-20°   | 2295.3  | 4.9       |
| 20°-30°   | 3303.0  | 7.1       |
| 30°-40°   | 4757.2  | 10.2      |
| 40°-50°   | 6682.6  | 14.4      |
| 50°-60°   | 9319.8  | 20.1      |
| 60°-70°   | 11080.7 | 23.9      |
| 70°-80°   | 6525.9  | 14.1      |
| 80°-90°   | 1380.0  | 3.0       |
| 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°    | 46445.0 | 100.0     |
| 0°-180°   | 46445.0 | 100.0     |

**Coefficient of Utilization**



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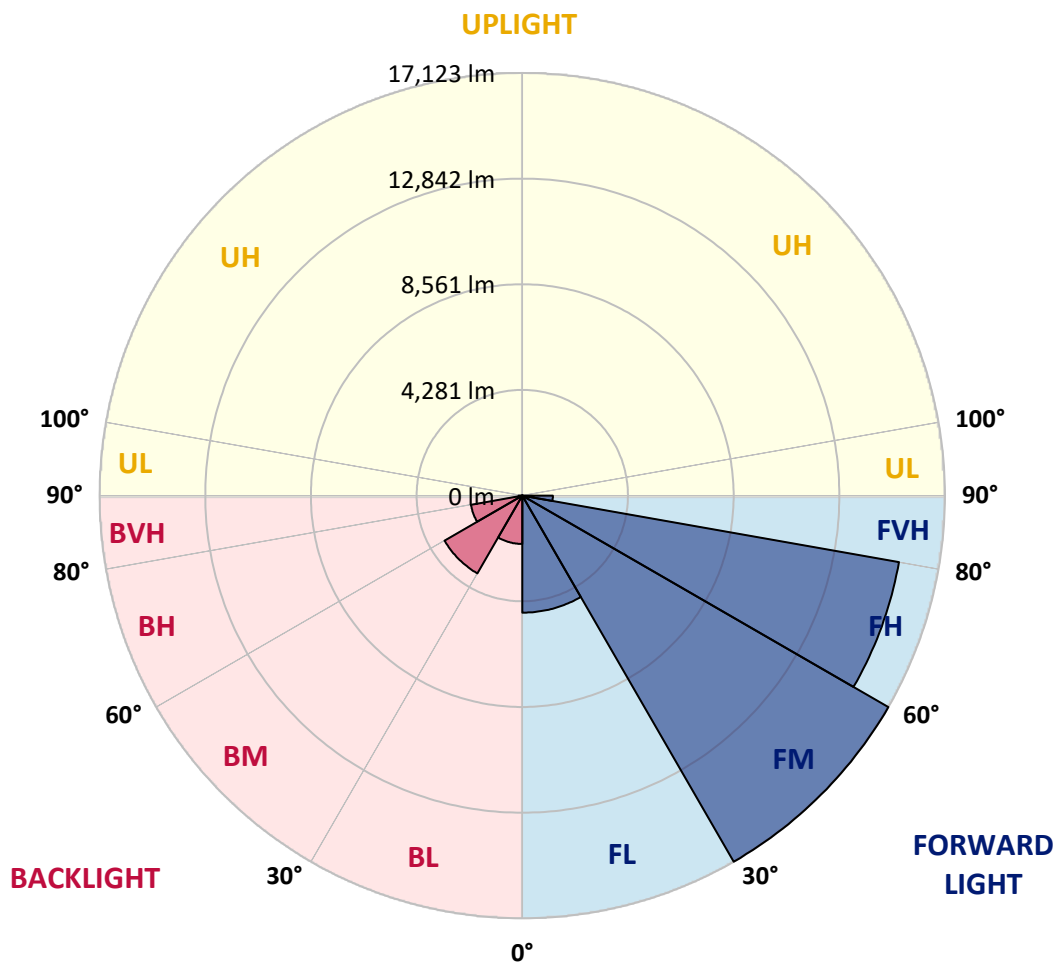
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4740.8  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 17122.6 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 15494.2 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 1237.2  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 1958.1  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3637.0  | 7.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2112.3  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 142.7   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 |
| 2.5°  | 15645.3 | 15666.1 | 15800.1 | 16190.3 | 16458.4 | 16556.6 | 16625.1 | 16497.1 | 16372.0 | 16068.2 | 15609.5 |
| 5°    | 15597.6 | 15719.7 | 16068.2 | 16943.8 | 17634.8 | 17932.6 | 18022.0 | 17637.8 | 17003.4 | 16223.1 | 15284.9 |
| 7.5°  | 14686.2 | 14850.0 | 15386.2 | 16854.5 | 18072.6 | 18769.6 | 18677.2 | 17983.3 | 16839.6 | 15448.7 | 14138.2 |
| 10°   | 13605.1 | 13786.8 | 14433.1 | 16208.2 | 17777.8 | 18736.8 | 18736.8 | 17890.9 | 16372.0 | 14719.0 | 13209.0 |
| 12.5° | 12747.3 | 12937.9 | 13676.6 | 15544.0 | 17164.2 | 18072.6 | 18224.5 | 17497.8 | 16035.4 | 14257.4 | 12598.4 |
| 15°   | 12464.4 | 12649.0 | 13444.3 | 15141.9 | 16514.9 | 17068.9 | 17119.6 | 16881.3 | 15871.6 | 14290.1 | 12571.6 |
| 17.5° | 12815.8 | 13054.1 | 13858.3 | 15261.1 | 15919.3 | 15952.0 | 15990.8 | 16178.4 | 15889.5 | 14888.8 | 13113.7 |
| 20°   | 13831.5 | 14087.6 | 14927.5 | 15645.3 | 15398.1 | 15058.5 | 15079.4 | 15561.9 | 16101.0 | 15877.6 | 14409.3 |
| 22.5° | 15296.8 | 15520.2 | 16380.9 | 16321.4 | 15177.7 | 14477.8 | 14331.8 | 15004.9 | 16413.7 | 17110.6 | 15788.2 |
| 25°   | 16878.3 | 17140.4 | 18129.2 | 17325.1 | 15240.2 | 14132.3 | 14039.9 | 14677.3 | 16738.3 | 18263.2 | 17381.6 |
| 27.5° | 18689.1 | 18945.3 | 19725.6 | 18337.7 | 15567.8 | 14105.5 | 13995.3 | 14647.5 | 17030.2 | 19329.5 | 18903.6 |
| 30°   | 20035.4 | 20270.6 | 20800.8 | 19189.5 | 15969.9 | 14284.2 | 14147.2 | 14882.8 | 17280.4 | 20059.2 | 20386.8 |
| 32.5° | 21092.7 | 21336.9 | 21625.8 | 19719.6 | 16500.1 | 14608.8 | 14355.6 | 15311.7 | 17608.0 | 20616.1 | 21485.8 |
| 35°   | 22194.7 | 22483.6 | 22462.7 | 20190.2 | 16994.5 | 14984.1 | 14736.9 | 15931.2 | 18123.3 | 21101.6 | 22879.7 |
| 37.5° | 23591.5 | 23707.7 | 23558.7 | 20613.2 | 17587.2 | 15660.2 | 15523.2 | 16851.5 | 18855.9 | 21688.3 | 24508.8 |
| 40°   | 25009.2 | 25241.5 | 24476.1 | 21125.4 | 18307.9 | 16931.9 | 16917.0 | 18212.6 | 19725.6 | 22376.3 | 26087.4 |
| 42.5° | 26224.4 | 26420.9 | 25333.8 | 21572.2 | 19180.6 | 18483.6 | 18596.8 | 20038.3 | 20866.3 | 23174.5 | 27356.1 |
| 45°   | 27138.7 | 27314.4 | 26126.1 | 22004.0 | 20330.2 | 20276.6 | 20943.8 | 21995.1 | 22304.9 | 23892.3 | 28100.7 |
| 47.5° | 27916.1 | 28085.8 | 26677.1 | 22659.3 | 21750.9 | 22418.0 | 23579.6 | 24035.3 | 23534.9 | 24303.3 | 28934.7 |
| 50°   | 28571.3 | 28621.9 | 27055.3 | 23439.6 | 23514.1 | 25042.0 | 26167.8 | 26462.6 | 24750.1 | 24893.0 | 29658.4 |
| 52.5° | 29253.3 | 29187.8 | 27707.6 | 24422.5 | 25420.2 | 27531.9 | 28350.9 | 28657.7 | 25914.6 | 25619.8 | 30712.7 |
| 55°   | 30781.2 | 30843.8 | 29170.0 | 25661.5 | 27347.2 | 29977.1 | 31055.2 | 30760.4 | 27204.2 | 26957.0 | 32053.0 |
| 57.5° | 32627.8 | 32574.2 | 31228.0 | 27600.4 | 29309.9 | 32252.5 | 33056.7 | 32583.1 | 28925.7 | 28794.7 | 33411.1 |
| 60°   | 33345.6 | 33417.1 | 32949.5 | 29685.2 | 31245.9 | 34245.1 | 35067.1 | 34331.4 | 30989.7 | 30930.2 | 34435.7 |
| 62.5° | 32624.8 | 33026.9 | 33342.6 | 31540.7 | 32895.9 | 35710.4 | 36526.5 | 35686.6 | 33143.1 | 33574.9 | 35153.5 |
| 65°   | 31189.3 | 31275.6 | 32350.8 | 33113.3 | 33691.1 | 35951.7 | 36377.6 | 35930.8 | 34942.0 | 35984.4 | 35120.7 |
| 67.5° | 29324.8 | 29399.3 | 30659.1 | 33628.5 | 32666.5 | 33211.6 | 33509.4 | 33378.4 | 34385.0 | 36809.4 | 33503.4 |
| 70°   | 27549.7 | 27490.2 | 28821.5 | 32315.1 | 28437.3 | 27609.3 | 27856.5 | 27445.5 | 29670.3 | 34793.1 | 30331.5 |
| 72.5° | 24094.8 | 24309.3 | 25738.9 | 28663.6 | 22516.3 | 21170.1 | 21709.2 | 20645.9 | 22820.1 | 29798.4 | 24619.0 |
| 75°   | 18873.8 | 18924.4 | 21310.1 | 24056.1 | 16985.5 | 14862.0 | 15591.7 | 15147.9 | 17479.9 | 24857.3 | 17000.4 |
| 77.5° | 13069.0 | 12955.8 | 15520.2 | 18373.4 | 12112.9 | 10879.9 | 10891.8 | 10680.4 | 12205.3 | 18302.0 | 11550.0 |
| 80°   | 8300.7  | 8127.9  | 9715.4  | 11350.5 | 8324.5  | 8905.3  | 8613.4  | 8604.5  | 7946.2  | 11290.9 | 6984.2  |
| 82.5° | 4485.4  | 4676.0  | 6138.4  | 7115.3  | 5971.6  | 6883.0  | 6308.1  | 6123.5  | 5453.4  | 7067.6  | 4467.5  |
| 85°   | 2043.1  | 2221.8  | 3273.2  | 4839.8  | 4536.0  | 4586.7  | 3064.7  | 3615.7  | 4512.2  | 5739.3  | 2385.7  |
| 87.5° | 199.5   | 256.1   | 676.1   | 2284.4  | 1548.7  | 1221.1  | 455.7   | 878.6   | 1134.8  | 2040.2  | 190.6   |
| 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°    | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 |
| 2.5°  | 15421.9 | 15267.0 | 14739.8 | 14305.0 | 13843.4 | 13491.9 | 13033.3 | 12726.5 | 12515.0 | 12196.3 | 12157.6 |
| 5°    | 14713.0 | 14334.8 | 13417.5 | 12482.3 | 11675.1 | 11067.5 | 10451.0 | 9885.1  | 9551.6  | 9447.3  | 9313.3  |
| 7.5°  | 13518.7 | 12881.4 | 11701.9 | 10629.7 | 9703.5  | 8798.0  | 8101.1  | 7606.7  | 7276.1  | 7082.5  | 6850.2  |
| 10°   | 12535.9 | 11797.2 | 10361.7 | 9048.2  | 8285.8  | 7722.9  | 7109.3  | 6579.2  | 6171.1  | 5822.7  | 5632.1  |
| 12.5° | 11874.7 | 11040.7 | 9426.5  | 8360.2  | 7770.5  | 7171.9  | 6454.1  | 5858.4  | 5256.8  | 4860.7  | 4690.9  |
| 15°   | 11675.1 | 10793.5 | 9137.6  | 8017.7  | 7171.9  | 6388.6  | 5584.4  | 4807.1  | 4211.4  | 3836.1  | 3711.0  |
| 17.5° | 12163.6 | 11097.3 | 9134.6  | 7562.0  | 6469.0  | 5533.8  | 4503.3  | 3773.6  | 3163.0  | 2883.0  | 2793.7  |
| 20°   | 13075.0 | 11681.1 | 9161.4  | 7112.3  | 5706.5  | 4390.1  | 3276.2  | 2677.5  | 2385.7  | 2266.5  | 2221.8  |
| 22.5° | 14346.7 | 12571.6 | 9241.8  | 6668.5  | 4872.6  | 3371.5  | 2454.2  | 2150.4  | 2046.1  | 2025.3  | 2016.3  |
| 25°   | 15913.3 | 13673.6 | 9512.8  | 6269.4  | 4169.7  | 2573.3  | 2052.1  | 1915.1  | 1855.5  | 1834.7  | 1831.7  |
| 27.5° | 17354.8 | 15097.3 | 9840.5  | 5926.9  | 3490.6  | 2218.9  | 1855.5  | 1739.4  | 1679.8  | 1676.8  | 1682.8  |
| 30°   | 18656.4 | 16288.6 | 10114.5 | 5542.7  | 2975.4  | 1971.7  | 1727.4  | 1611.3  | 1554.7  | 1551.7  | 1569.6  |
| 32.5° | 19782.2 | 17268.5 | 10317.0 | 5164.5  | 2689.4  | 1819.8  | 1611.3  | 1486.2  | 1438.5  | 1429.6  | 1438.5  |
| 35°   | 20985.4 | 18245.4 | 10224.7 | 4869.6  | 2525.6  | 1694.7  | 1524.9  | 1402.8  | 1346.2  | 1319.4  | 1319.4  |
| 37.5° | 22358.5 | 19252.0 | 10066.8 | 4625.4  | 2451.2  | 1590.4  | 1450.5  | 1331.3  | 1274.7  | 1247.9  | 1244.9  |
| 40°   | 23856.6 | 20258.7 | 9849.4  | 4408.0  | 2376.7  | 1527.9  | 1399.8  | 1274.7  | 1206.2  | 1179.4  | 1173.5  |
| 42.5° | 25179.0 | 21119.5 | 9670.7  | 4265.0  | 2254.6  | 1539.8  | 1355.1  | 1233.0  | 1146.7  | 1110.9  | 1107.9  |
| 45°   | 26328.6 | 21986.2 | 9637.9  | 4181.6  | 2153.3  | 1521.9  | 1343.2  | 1200.3  | 1099.0  | 1060.3  | 1054.3  |
| 47.5° | 27228.1 | 22888.6 | 9825.6  | 4133.9  | 2043.1  | 1426.6  | 1420.7  | 1179.4  | 1057.3  | 1015.6  | 1009.7  |
| 50°   | 28324.1 | 24169.3 | 10254.5 | 4035.7  | 1941.9  | 1337.3  | 1501.1  | 1176.4  | 1024.6  | 970.9   | 956.1   |
| 52.5° | 29783.5 | 25837.2 | 10835.2 | 3859.9  | 1795.9  | 1253.9  | 1432.6  | 1176.4  | 985.8   | 932.2   | 914.4   |
| 55°   | 31990.4 | 27963.7 | 11404.1 | 3612.7  | 1590.4  | 1143.7  | 1292.6  | 1140.7  | 929.2   | 881.6   | 869.7   |
| 57.5° | 33452.8 | 29518.4 | 11767.5 | 3270.2  | 1334.3  | 1063.3  | 1113.9  | 1084.1  | 872.7   | 822.0   | 822.0   |
| 60°   | 33527.3 | 29935.4 | 11594.7 | 2838.4  | 1173.5  | 988.8   | 968.0   | 1093.1  | 822.0   | 768.4   | 762.5   |
| 62.5° | 32669.5 | 28913.8 | 10695.3 | 2451.2  | 1087.1  | 908.4   | 875.6   | 959.0   | 771.4   | 717.8   | 708.8   |
| 65°   | 31329.3 | 26307.8 | 9134.6  | 2266.5  | 1039.4  | 836.9   | 789.3   | 786.3   | 717.8   | 667.2   | 655.2   |
| 67.5° | 28866.2 | 22989.9 | 7505.4  | 2159.3  | 1015.6  | 756.5   | 711.8   | 696.9   | 655.2   | 613.5   | 607.6   |
| 70°   | 25235.6 | 19255.0 | 6019.2  | 2114.6  | 1003.7  | 673.1   | 637.4   | 619.5   | 583.8   | 551.0   | 548.0   |
| 72.5° | 19633.3 | 15618.5 | 4967.9  | 2084.8  | 997.7   | 595.7   | 557.0   | 533.1   | 512.3   | 482.5   | 482.5   |
| 75°   | 14102.5 | 11490.5 | 3791.4  | 1879.3  | 923.3   | 512.3   | 470.6   | 455.7   | 425.9   | 402.1   | 408.0   |
| 77.5° | 8890.4  | 7737.8  | 2495.9  | 1382.0  | 714.8   | 411.0   | 375.3   | 366.3   | 342.5   | 309.7   | 330.6   |
| 80°   | 6004.4  | 5441.4  | 1456.4  | 869.7   | 449.7   | 300.8   | 288.9   | 285.9   | 259.1   | 223.4   | 226.4   |
| 82.5° | 4086.3  | 4008.9  | 756.5   | 494.4   | 259.1   | 175.7   | 169.8   | 175.7   | 145.9   | 119.1   | 119.1   |
| 85°   | 1596.4  | 2180.2  | 357.4   | 193.6   | 83.4    | 26.8    | 38.7    | 41.7    | 23.8    | 11.9    | 14.9    |
| 87.5° | 29.8    | 223.4   | 8.9     | 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°    | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 |
| 2.5°  | 12098.1 | 12071.2 | 12115.9 | 11925.3 | 11964.0 | 12035.5 | 12071.2 | 12092.1 | 12387.0 | 12318.5 | 12506.1 |
| 5°    | 9438.4  | 9411.6  | 9584.3  | 9608.2  | 9697.5  | 9679.6  | 9766.0  | 9786.9  | 9894.1  | 9932.8  | 10194.9 |
| 7.5°  | 6865.1  | 6981.3  | 7177.8  | 7279.1  | 7431.0  | 7478.6  | 7434.0  | 7544.2  | 7320.8  | 7481.6  | 7529.3  |
| 10°   | 5515.9  | 5375.9  | 5292.5  | 5524.8  | 5554.6  | 5775.0  | 5685.7  | 5614.2  | 5745.2  | 5751.2  | 5876.3  |
| 12.5° | 4592.6  | 4291.8  | 4092.3  | 4157.8  | 4229.3  | 4324.6  | 4339.5  | 4482.4  | 4577.7  | 4667.1  | 4741.5  |
| 15°   | 3600.8  | 3496.6  | 3314.9  | 3225.6  | 3326.8  | 3365.5  | 3457.9  | 3577.0  | 3678.3  | 3705.1  | 3806.3  |
| 17.5° | 2763.9  | 2781.8  | 2752.0  | 2698.4  | 2760.9  | 2790.7  | 2796.7  | 2799.6  | 2826.5  | 2808.6  | 2957.5  |
| 20°   | 2224.8  | 2287.4  | 2361.8  | 2373.7  | 2394.6  | 2409.5  | 2382.7  | 2281.4  | 2284.4  | 2346.9  | 2394.6  |
| 22.5° | 2013.4  | 2025.3  | 2108.7  | 2135.5  | 2201.0  | 2174.2  | 2096.8  | 2049.1  | 2043.1  | 2058.0  | 2081.9  |
| 25°   | 1846.6  | 1864.4  | 1924.0  | 1965.7  | 2016.3  | 1968.7  | 1912.1  | 1867.4  | 1861.5  | 1876.4  | 1900.2  |
| 27.5° | 1697.7  | 1724.5  | 1778.1  | 1819.8  | 1867.4  | 1822.7  | 1769.1  | 1730.4  | 1727.4  | 1724.5  | 1739.4  |
| 30°   | 1578.5  | 1608.3  | 1647.0  | 1694.7  | 1727.4  | 1688.7  | 1638.1  | 1617.2  | 1614.3  | 1608.3  | 1614.3  |
| 32.5° | 1459.4  | 1507.0  | 1545.8  | 1569.6  | 1602.4  | 1572.6  | 1533.8  | 1521.9  | 1501.1  | 1483.2  | 1474.3  |
| 35°   | 1325.4  | 1376.0  | 1435.6  | 1465.3  | 1498.1  | 1468.3  | 1441.5  | 1390.9  | 1355.1  | 1352.2  | 1358.1  |
| 37.5° | 1247.9  | 1268.8  | 1316.4  | 1367.1  | 1399.8  | 1384.9  | 1334.3  | 1283.7  | 1274.7  | 1274.7  | 1280.7  |
| 40°   | 1179.4  | 1188.4  | 1209.2  | 1274.7  | 1334.3  | 1289.6  | 1227.1  | 1212.2  | 1212.2  | 1209.2  | 1212.2  |
| 42.5° | 1110.9  | 1119.9  | 1119.9  | 1170.5  | 1265.8  | 1194.3  | 1146.7  | 1146.7  | 1146.7  | 1149.6  | 1158.6  |
| 45°   | 1048.4  | 1051.4  | 1048.4  | 1084.1  | 1173.5  | 1113.9  | 1081.1  | 1090.1  | 1096.0  | 1102.0  | 1107.9  |
| 47.5° | 994.8   | 997.7   | 994.8   | 1024.6  | 1069.2  | 1045.4  | 1027.5  | 1039.4  | 1051.4  | 1060.3  | 1066.2  |
| 50°   | 947.1   | 944.1   | 950.1   | 968.0   | 988.8   | 994.8   | 982.9   | 1000.7  | 1006.7  | 1018.6  | 1033.5  |
| 52.5° | 905.4   | 902.4   | 908.4   | 917.3   | 947.1   | 947.1   | 947.1   | 962.0   | 973.9   | 985.8   | 1006.7  |
| 55°   | 857.8   | 860.7   | 869.7   | 881.6   | 920.3   | 914.4   | 917.3   | 929.2   | 941.2   | 959.0   | 970.9   |
| 57.5° | 813.1   | 819.0   | 831.0   | 848.8   | 887.5   | 884.6   | 887.5   | 893.5   | 908.4   | 917.3   | 929.2   |
| 60°   | 762.5   | 774.4   | 789.3   | 801.2   | 839.9   | 836.9   | 851.8   | 863.7   | 872.7   | 872.7   | 878.6   |
| 62.5° | 711.8   | 729.7   | 744.6   | 753.5   | 795.2   | 798.2   | 819.0   | 828.0   | 833.9   | 828.0   | 836.9   |
| 65°   | 661.2   | 688.0   | 694.0   | 705.9   | 747.6   | 750.5   | 774.4   | 795.2   | 789.3   | 783.3   | 798.2   |
| 67.5° | 610.6   | 643.3   | 640.3   | 655.2   | 696.9   | 702.9   | 723.7   | 759.5   | 747.6   | 741.6   | 753.5   |
| 70°   | 554.0   | 577.8   | 580.8   | 589.7   | 646.3   | 637.4   | 670.1   | 702.9   | 694.0   | 696.9   | 696.9   |
| 72.5° | 491.4   | 512.3   | 512.3   | 530.1   | 589.7   | 574.8   | 601.6   | 637.4   | 637.4   | 634.4   | 634.4   |
| 75°   | 417.0   | 428.9   | 440.8   | 467.6   | 530.1   | 512.3   | 530.1   | 562.9   | 568.9   | 562.9   | 562.9   |
| 77.5° | 336.6   | 354.4   | 360.4   | 396.1   | 440.8   | 437.8   | 455.7   | 470.6   | 482.5   | 476.5   | 476.5   |
| 80°   | 238.3   | 256.1   | 280.0   | 318.7   | 345.5   | 354.4   | 363.4   | 375.3   | 381.2   | 381.2   | 387.2   |
| 82.5° | 134.0   | 160.8   | 181.7   | 220.4   | 232.3   | 277.0   | 274.0   | 282.9   | 274.0   | 241.2   | 268.1   |
| 85°   | 29.8    | 56.6    | 80.4    | 101.3   | 116.2   | 160.8   | 169.8   | 190.6   | 157.9   | 145.9   | 145.9   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 23.8    | 47.7    | 65.5    | 56.6    | 47.7    | 47.7    |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 | 14510.5 |
| 2.5°  | 12663.9 | 12923.1 | 13235.8 | 13774.9 | 14153.1 | 14561.1 | 14972.2 | 15410.0 | 15526.1 | 15645.3 |
| 5°    | 10266.4 | 10775.7 | 11052.7 | 11776.4 | 12535.9 | 13500.9 | 14290.1 | 15153.8 | 15514.2 | 15597.6 |
| 7.5°  | 7776.5  | 8122.0  | 8848.7  | 9581.3  | 10522.5 | 11535.1 | 12744.4 | 14090.6 | 14510.5 | 14686.2 |
| 10°   | 6165.2  | 6635.8  | 7273.1  | 8059.4  | 8884.4  | 9974.5  | 11338.6 | 12911.1 | 13506.8 | 13605.1 |
| 12.5° | 5247.9  | 5772.0  | 6466.0  | 7297.0  | 8077.3  | 8899.3  | 10275.3 | 11898.5 | 12535.9 | 12747.3 |
| 15°   | 4196.5  | 4830.9  | 5632.1  | 6507.7  | 7356.5  | 8256.0  | 9649.9  | 11481.5 | 12217.2 | 12464.4 |
| 17.5° | 3297.0  | 3809.3  | 4676.0  | 5626.1  | 6632.8  | 7770.5  | 9518.8  | 11681.1 | 12586.5 | 12815.8 |
| 20°   | 2522.7  | 2889.0  | 3618.7  | 4622.4  | 5801.8  | 7291.0  | 9551.6  | 12434.6 | 13518.7 | 13831.5 |
| 22.5° | 2180.2  | 2367.8  | 2811.6  | 3767.6  | 5087.0  | 6874.0  | 9685.6  | 13468.1 | 14775.6 | 15296.8 |
| 25°   | 1974.6  | 2072.9  | 2323.1  | 2948.6  | 4405.0  | 6469.0  | 9992.4  | 14859.0 | 16532.8 | 16878.3 |
| 27.5° | 1798.9  | 1870.4  | 2025.3  | 2475.0  | 3785.5  | 6093.7  | 10349.8 | 16401.8 | 18173.9 | 18689.1 |
| 30°   | 1632.1  | 1727.4  | 1873.4  | 2198.0  | 3389.4  | 5751.2  | 10799.5 | 17652.7 | 19555.8 | 20035.4 |
| 32.5° | 1504.1  | 1599.4  | 1733.4  | 2004.4  | 3052.8  | 5390.8  | 11067.5 | 18751.7 | 20684.6 | 21092.7 |
| 35°   | 1399.8  | 1480.2  | 1620.2  | 1849.6  | 2796.7  | 5116.8  | 11013.9 | 19624.3 | 21777.7 | 22194.7 |
| 37.5° | 1325.4  | 1393.9  | 1533.8  | 1703.6  | 2603.1  | 4830.9  | 10987.1 | 20777.0 | 23109.0 | 23591.5 |
| 40°   | 1256.9  | 1328.3  | 1456.4  | 1608.3  | 2409.5  | 4494.3  | 11002.0 | 21920.6 | 24526.7 | 25009.2 |
| 42.5° | 1203.3  | 1283.7  | 1387.9  | 1581.5  | 2209.9  | 4223.3  | 11002.0 | 22915.4 | 25759.7 | 26224.4 |
| 45°   | 1158.6  | 1244.9  | 1346.2  | 1578.5  | 2052.1  | 4017.8  | 10927.6 | 23770.2 | 26742.6 | 27138.7 |
| 47.5° | 1119.9  | 1215.2  | 1361.1  | 1524.9  | 2013.4  | 3868.9  | 10862.0 | 24455.2 | 27543.8 | 27916.1 |
| 50°   | 1093.1  | 1206.2  | 1447.5  | 1462.4  | 2025.3  | 3824.2  | 11177.7 | 25318.9 | 28249.6 | 28571.3 |
| 52.5° | 1072.2  | 1209.2  | 1444.5  | 1370.0  | 2004.4  | 3854.0  | 11836.0 | 26668.1 | 29229.5 | 29253.3 |
| 55°   | 1030.5  | 1206.2  | 1370.0  | 1265.8  | 1918.1  | 3904.6  | 12681.8 | 28627.9 | 30763.4 | 30781.2 |
| 57.5° | 988.8   | 1173.5  | 1271.8  | 1176.4  | 1742.3  | 3904.6  | 13700.4 | 30483.4 | 32612.9 | 32627.8 |
| 60°   | 947.1   | 1221.1  | 1116.9  | 1099.0  | 1513.0  | 3833.1  | 14775.6 | 31299.5 | 33193.7 | 33345.6 |
| 62.5° | 905.4   | 1230.1  | 997.7   | 1030.5  | 1346.2  | 3660.4  | 15576.8 | 30397.0 | 32407.4 | 32624.8 |
| 65°   | 857.8   | 991.8   | 920.3   | 959.0   | 1259.8  | 3371.5  | 15323.6 | 28744.0 | 30930.2 | 31189.3 |
| 67.5° | 801.2   | 839.9   | 836.9   | 884.6   | 1230.1  | 2945.6  | 13989.3 | 26653.2 | 29339.7 | 29324.8 |
| 70°   | 732.7   | 753.5   | 762.5   | 813.1   | 1173.5  | 2615.0  | 11657.3 | 23940.0 | 27216.2 | 27549.7 |
| 72.5° | 661.2   | 679.1   | 688.0   | 732.7   | 1116.9  | 2427.4  | 9048.2  | 20202.1 | 23573.6 | 24094.8 |
| 75°   | 583.8   | 595.7   | 607.6   | 646.3   | 1057.3  | 2150.4  | 6445.1  | 15421.9 | 18054.8 | 18873.8 |
| 77.5° | 503.3   | 503.3   | 518.2   | 557.0   | 890.5   | 1775.1  | 4324.6  | 10817.4 | 12232.1 | 13069.0 |
| 80°   | 408.0   | 411.0   | 405.1   | 446.8   | 655.2   | 1215.2  | 2457.1  | 7225.5  | 8139.8  | 8300.7  |
| 82.5° | 312.7   | 303.8   | 306.8   | 327.6   | 488.4   | 828.0   | 1310.5  | 4488.4  | 4574.7  | 4485.4  |
| 85°   | 196.6   | 196.6   | 190.6   | 214.4   | 312.7   | 431.9   | 714.8   | 2749.0  | 2147.4  | 2043.1  |
| 87.5° | 80.4    | 65.5    | 74.5    | 86.4    | 148.9   | 175.7   | 280.0   | 565.9   | 217.4   | 199.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)