

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: INVUE

Report Number: P401860

Luminaire Tested: **ENC-SA1F-740-U-SLL**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENC-SA1F-740-U-SLL  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6885 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

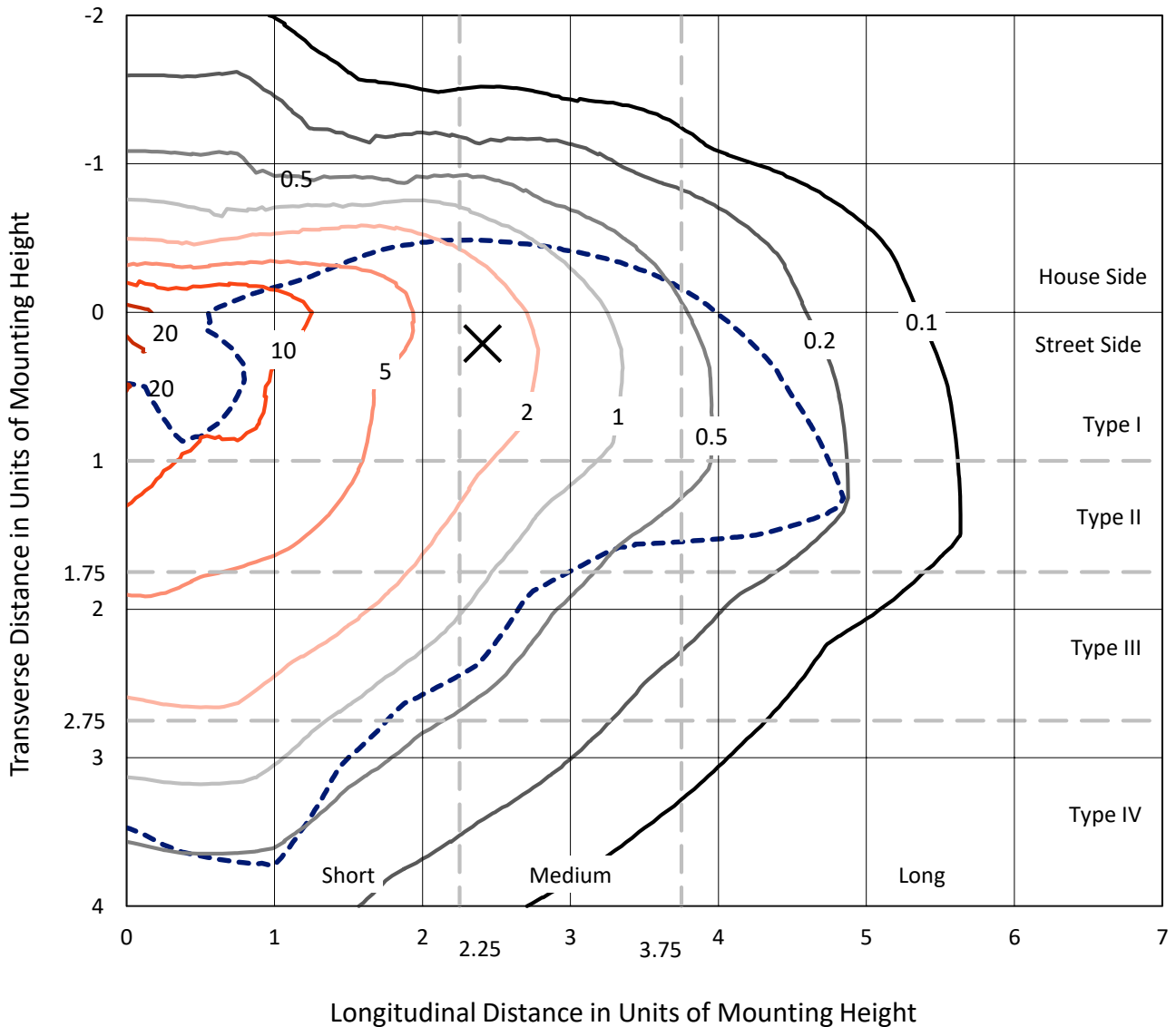
Input Watts (W): 66.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

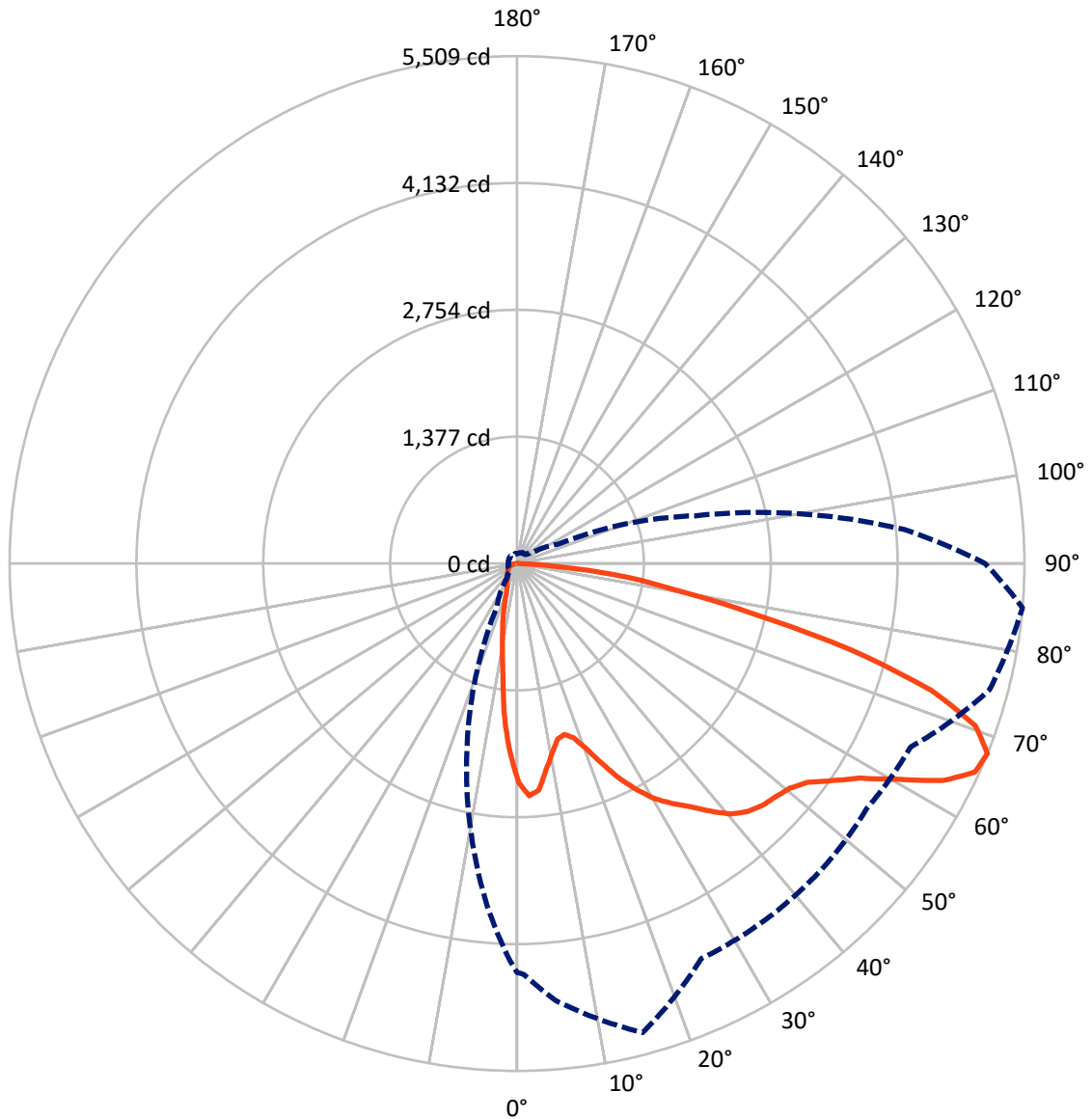
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1387.2   | 0.0    | 1387.2 |
|                    | % Fixture | 20.1     | 0.0    | 20.1   |
| <b>Street Side</b> | Lumens    | 5497.8   | 0.0    | 5497.8 |
|                    | % Fixture | 79.9     | 0.0    | 79.9   |
| <b>Total</b>       | Lumens    | 6885.0   | 0.0    | 6885.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 180.9  | 2.6       |
| 10°-20°   | 356.7  | 5.2       |
| 20°-30°   | 498.3  | 7.2       |
| 30°-40°   | 702.5  | 10.2      |
| 40°-50°   | 973.4  | 14.1      |
| 50°-60°   | 1367.8 | 19.9      |
| 60°-70°   | 1672.2 | 24.3      |
| 70°-80°   | 982.7  | 14.3      |
| 80°-90°   | 150.5  | 2.2       |
| 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°    | 6885.0 | 100.0     |
| 0°-180°   | 6885.0 | 100.0     |



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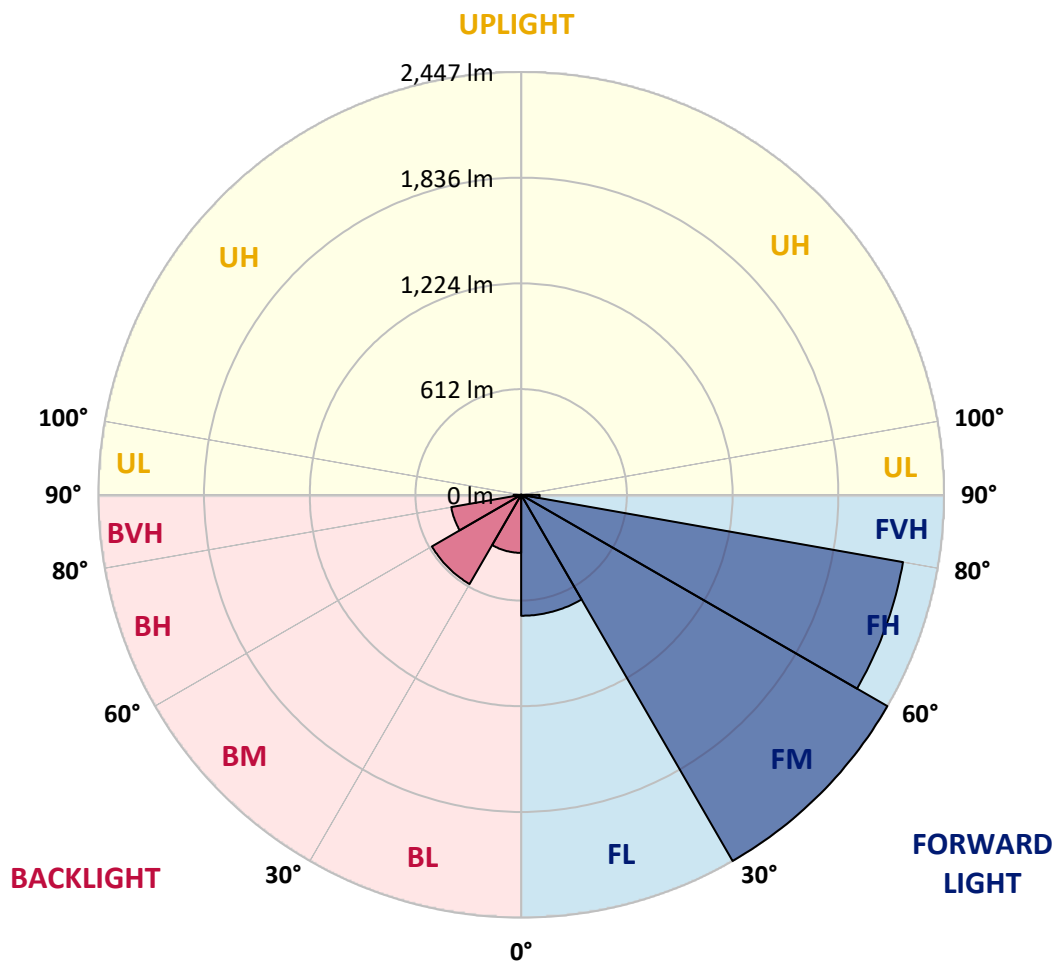
CATALOG NUMBER: ENC-SA1F-740-U-SLL

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 699.9  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 2447.3 | 35.5      |                         |      |         |
| FH   | (60°-80°)   | 2244.0 | 32.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 106.5  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 336.0  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 596.4  | 8.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 410.9  | 6.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 44.0   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 |
| 2.5°  | 2443.9 | 2432.9 | 2470.5 | 2525.8 | 2563.5 | 2590.0 | 2598.9 | 2597.8 | 2590.0 | 2569.0 | 2524.7 |
| 5°    | 2335.5 | 2325.5 | 2401.9 | 2524.7 | 2632.1 | 2709.6 | 2731.7 | 2700.7 | 2662.0 | 2580.1 | 2471.6 |
| 7.5°  | 2129.6 | 2145.1 | 2242.5 | 2415.2 | 2587.8 | 2710.7 | 2740.6 | 2691.9 | 2612.2 | 2445.0 | 2262.4 |
| 10°   | 1973.5 | 1981.3 | 2090.9 | 2298.9 | 2482.7 | 2608.9 | 2660.9 | 2617.7 | 2513.7 | 2302.3 | 2090.9 |
| 12.5° | 1877.2 | 1885.0 | 1991.2 | 2183.8 | 2379.7 | 2478.3 | 2493.8 | 2492.6 | 2406.3 | 2201.5 | 1956.9 |
| 15°   | 1890.5 | 1900.5 | 2006.7 | 2166.1 | 2276.8 | 2320.0 | 2321.1 | 2333.3 | 2307.8 | 2151.7 | 1924.8 |
| 17.5° | 2018.9 | 2018.9 | 2120.7 | 2217.0 | 2191.6 | 2160.6 | 2183.8 | 2206.0 | 2250.2 | 2181.6 | 1990.1 |
| 20°   | 2221.5 | 2230.3 | 2324.4 | 2307.8 | 2152.8 | 2075.4 | 2047.7 | 2086.4 | 2223.7 | 2271.3 | 2144.0 |
| 22.5° | 2440.6 | 2463.9 | 2562.4 | 2440.6 | 2146.2 | 1995.7 | 1964.7 | 2006.7 | 2227.0 | 2413.0 | 2355.4 |
| 25°   | 2683.0 | 2711.8 | 2778.2 | 2595.6 | 2166.1 | 1951.4 | 1930.4 | 1970.2 | 2235.9 | 2543.6 | 2583.4 |
| 27.5° | 2904.4 | 2906.6 | 2971.9 | 2726.2 | 2218.1 | 1955.8 | 1920.4 | 1972.4 | 2260.2 | 2646.5 | 2784.9 |
| 30°   | 3061.6 | 3061.6 | 3090.3 | 2792.6 | 2282.3 | 1983.5 | 1929.3 | 2005.6 | 2294.5 | 2702.9 | 2967.5 |
| 32.5° | 3205.5 | 3213.2 | 3198.8 | 2862.3 | 2343.2 | 2023.3 | 1950.3 | 2072.0 | 2348.8 | 2749.4 | 3108.1 |
| 35°   | 3388.1 | 3387.0 | 3322.8 | 2917.7 | 2399.7 | 2066.5 | 2002.3 | 2156.2 | 2427.3 | 2818.1 | 3242.0 |
| 37.5° | 3613.9 | 3602.8 | 3466.7 | 2967.5 | 2468.3 | 2140.7 | 2100.8 | 2271.3 | 2532.5 | 2898.9 | 3411.3 |
| 40°   | 3818.7 | 3801.0 | 3598.4 | 3014.0 | 2522.5 | 2284.6 | 2261.3 | 2414.1 | 2665.3 | 2999.6 | 3576.3 |
| 42.5° | 3978.0 | 3951.5 | 3710.2 | 3047.2 | 2604.4 | 2510.4 | 2530.3 | 2670.8 | 2799.2 | 3089.2 | 3679.2 |
| 45°   | 4112.0 | 4084.3 | 3794.3 | 3063.8 | 2802.6 | 2832.4 | 2871.2 | 2988.5 | 2942.0 | 3113.6 | 3742.3 |
| 47.5° | 4208.3 | 4162.9 | 3830.8 | 3112.5 | 3070.4 | 3208.8 | 3328.3 | 3336.1 | 3143.5 | 3112.5 | 3781.0 |
| 50°   | 4264.7 | 4214.9 | 3865.1 | 3233.1 | 3381.5 | 3636.0 | 3763.3 | 3703.5 | 3352.7 | 3132.4 | 3836.4 |
| 52.5° | 4378.7 | 4326.7 | 4007.9 | 3429.0 | 3700.2 | 4068.8 | 4137.4 | 4041.1 | 3569.6 | 3235.3 | 3947.1 |
| 55°   | 4665.4 | 4642.2 | 4284.6 | 3692.5 | 4013.5 | 4418.6 | 4449.6 | 4353.3 | 3796.5 | 3413.6 | 4158.5 |
| 57.5° | 4989.7 | 4938.8 | 4658.8 | 4023.4 | 4313.4 | 4692.0 | 4741.8 | 4609.0 | 4034.5 | 3663.7 | 4394.2 |
| 60°   | 5080.5 | 5070.5 | 4975.3 | 4409.7 | 4623.3 | 4984.2 | 4987.5 | 4818.2 | 4312.3 | 3961.4 | 4754.0 |
| 62.5° | 4947.7 | 4979.8 | 5107.0 | 4767.2 | 4883.5 | 5180.1 | 5152.4 | 4976.4 | 4603.4 | 4435.2 | 5191.2 |
| 65°   | 4716.3 | 4761.7 | 5017.4 | 5104.8 | 4943.2 | 5141.4 | 5082.7 | 4970.9 | 4787.2 | 4945.4 | 5462.3 |
| 67.5° | 4438.5 | 4462.9 | 4760.6 | 5273.1 | 4734.0 | 4715.2 | 4687.5 | 4636.6 | 4714.1 | 5308.5 | 5508.8 |
| 70°   | 4149.6 | 4170.6 | 4445.1 | 5041.7 | 4106.4 | 3890.6 | 3867.4 | 3823.1 | 4125.3 | 5304.1 | 5280.8 |
| 72.5° | 3497.7 | 3484.4 | 3737.9 | 4208.3 | 3135.7 | 2842.4 | 3039.4 | 2943.1 | 3337.2 | 4765.0 | 4704.1 |
| 75°   | 2172.8 | 2245.8 | 2563.5 | 2950.9 | 2148.4 | 1947.0 | 2219.3 | 2194.9 | 2709.6 | 4103.1 | 3745.6 |
| 77.5° | 1323.8 | 1338.2 | 1517.5 | 1839.6 | 1293.9 | 1349.3 | 1426.7 | 1577.3 | 2008.9 | 3326.1 | 2611.1 |
| 80°   | 692.9  | 644.2  | 775.9  | 1009.5 | 768.2  | 905.4  | 1046.0 | 1212.0 | 1275.1 | 2168.3 | 1745.5 |
| 82.5° | 200.3  | 199.2  | 262.3  | 422.8  | 364.2  | 445.0  | 528.0  | 761.5  | 835.7  | 1289.5 | 1195.4 |
| 85°   | 1.1    | 1.1    | 1.1    | 2.2    | 3.3    | 5.5    | 23.2   | 195.9  | 259.0  | 597.7  | 491.4  |
| 87.5° | 0.0    | 0.0    | 1.1    | 2.2    | 2.2    | 4.4    | 6.6    | 8.9    | 11.1   | 13.3   | 48.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 |
| 2.5°  | 2510.4 | 2493.8 | 2458.3 | 2410.7 | 2377.5 | 2320.0 | 2307.8 | 2271.3 | 2234.7 | 2204.9 | 2206.0 |
| 5°    | 2419.6 | 2363.1 | 2276.8 | 2177.2 | 2082.0 | 1996.8 | 1980.2 | 1930.4 | 1916.0 | 1901.6 | 1861.7 |
| 7.5°  | 2181.6 | 2115.2 | 1994.6 | 1847.3 | 1727.8 | 1647.0 | 1560.7 | 1508.6 | 1462.2 | 1409.0 | 1422.3 |
| 10°   | 1999.0 | 1903.8 | 1737.8 | 1565.1 | 1415.7 | 1307.2 | 1212.0 | 1163.3 | 1095.8 | 1047.1 | 1040.4 |
| 12.5° | 1858.4 | 1755.5 | 1556.2 | 1353.7 | 1213.1 | 1150.0 | 1089.1 | 1012.8 | 937.5  | 873.3  | 840.1  |
| 15°   | 1811.9 | 1695.7 | 1464.4 | 1262.9 | 1152.2 | 1075.9 | 990.6  | 903.2  | 811.3  | 742.7  | 716.1  |
| 17.5° | 1866.2 | 1728.9 | 1463.3 | 1224.2 | 1085.8 | 974.0  | 867.8  | 769.3  | 660.8  | 592.2  | 571.1  |
| 20°   | 2015.6 | 1844.0 | 1494.3 | 1187.7 | 1005.0 | 853.4  | 704.0  | 597.7  | 487.0  | 438.3  | 416.2  |
| 22.5° | 2223.7 | 2000.1 | 1541.9 | 1143.4 | 915.4  | 706.2  | 537.9  | 404.0  | 349.8  | 325.4  | 319.9  |
| 25°   | 2437.3 | 2198.2 | 1609.4 | 1105.8 | 816.9  | 562.3  | 386.3  | 323.2  | 297.7  | 286.7  | 286.7  |
| 27.5° | 2672.0 | 2396.3 | 1682.4 | 1060.4 | 715.0  | 418.4  | 314.3  | 284.5  | 271.2  | 264.5  | 263.4  |
| 30°   | 2862.3 | 2557.9 | 1765.4 | 1007.2 | 623.2  | 343.1  | 278.9  | 259.0  | 246.8  | 243.5  | 243.5  |
| 32.5° | 2999.6 | 2678.6 | 1852.9 | 954.1  | 539.0  | 309.9  | 259.0  | 241.3  | 228.0  | 225.8  | 225.8  |
| 35°   | 3160.1 | 2793.7 | 1892.7 | 924.2  | 488.1  | 288.9  | 244.6  | 226.9  | 214.7  | 209.2  | 209.2  |
| 37.5° | 3352.7 | 2931.0 | 1914.9 | 895.4  | 466.0  | 269.0  | 234.7  | 214.7  | 202.6  | 195.9  | 195.9  |
| 40°   | 3597.3 | 3087.0 | 1938.1 | 866.7  | 452.7  | 252.4  | 223.6  | 203.7  | 193.7  | 186.0  | 186.0  |
| 42.5° | 3772.2 | 3230.9 | 1955.8 | 842.3  | 429.5  | 244.6  | 214.7  | 195.9  | 183.7  | 177.1  | 176.0  |
| 45°   | 3864.0 | 3364.8 | 1963.6 | 827.9  | 402.9  | 251.3  | 208.1  | 189.3  | 174.9  | 168.2  | 167.1  |
| 47.5° | 3926.0 | 3475.5 | 1973.5 | 816.9  | 381.9  | 239.1  | 207.0  | 182.6  | 168.2  | 159.4  | 159.4  |
| 50°   | 4024.5 | 3621.6 | 1999.0 | 795.8  | 369.7  | 223.6  | 223.6  | 179.3  | 160.5  | 152.7  | 151.6  |
| 52.5° | 4200.5 | 3830.8 | 2067.6 | 772.6  | 356.4  | 208.1  | 230.2  | 180.4  | 155.0  | 146.1  | 143.9  |
| 55°   | 4466.2 | 4164.0 | 2181.6 | 739.4  | 337.6  | 189.3  | 214.7  | 181.5  | 149.4  | 141.7  | 138.4  |
| 57.5° | 4811.5 | 4566.9 | 2314.4 | 712.8  | 305.5  | 173.8  | 195.9  | 176.0  | 142.8  | 136.1  | 133.9  |
| 60°   | 5044.0 | 4835.9 | 2398.6 | 678.5  | 260.1  | 163.8  | 168.2  | 170.5  | 136.1  | 128.4  | 127.3  |
| 62.5° | 5169.0 | 4840.3 | 2399.7 | 630.9  | 218.1  | 155.0  | 150.5  | 173.8  | 130.6  | 120.6  | 119.5  |
| 65°   | 5177.9 | 4604.5 | 2279.0 | 570.0  | 203.7  | 145.0  | 138.4  | 153.9  | 125.1  | 115.1  | 114.0  |
| 67.5° | 5081.6 | 4220.4 | 2003.4 | 500.3  | 209.2  | 137.3  | 128.4  | 129.5  | 118.4  | 109.6  | 108.5  |
| 70°   | 4736.2 | 3723.5 | 1607.2 | 445.0  | 210.3  | 127.3  | 120.6  | 117.3  | 111.8  | 104.0  | 101.8  |
| 72.5° | 4086.5 | 3111.4 | 1217.5 | 427.2  | 213.6  | 119.5  | 111.8  | 108.5  | 104.0  | 97.4   | 95.2   |
| 75°   | 3083.7 | 2427.3 | 914.3  | 398.5  | 215.8  | 110.7  | 101.8  | 99.6   | 95.2   | 88.5   | 87.4   |
| 77.5° | 2130.7 | 1799.8 | 635.3  | 336.5  | 192.6  | 100.7  | 91.9   | 89.7   | 86.3   | 79.7   | 78.6   |
| 80°   | 1438.9 | 1234.1 | 389.6  | 252.4  | 146.1  | 88.5   | 79.7   | 79.7   | 76.4   | 69.7   | 69.7   |
| 82.5° | 1001.7 | 922.0  | 224.7  | 164.9  | 106.3  | 73.1   | 69.7   | 69.7   | 66.4   | 59.8   | 58.7   |
| 85°   | 418.4  | 557.9  | 100.7  | 89.7   | 74.2   | 57.6   | 57.6   | 58.7   | 55.3   | 49.8   | 48.7   |
| 87.5° | 14.4   | 59.8   | 39.8   | 42.1   | 44.3   | 39.8   | 44.3   | 44.3   | 43.2   | 38.7   | 37.6   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 | 2378.6 |
| 2.5°  | 2173.9 | 2159.5 | 2115.2 | 2109.7 | 2076.5 | 2074.3 | 2088.6 | 2064.3 | 2066.5 | 2096.4 | 2092.0 |
| 5°    | 1870.6 | 1837.4 | 1836.3 | 1799.8 | 1758.8 | 1748.8 | 1713.4 | 1700.1 | 1694.6 | 1682.4 | 1726.7 |
| 7.5°  | 1463.3 | 1447.8 | 1461.1 | 1456.6 | 1419.0 | 1398.0 | 1322.7 | 1265.1 | 1236.4 | 1248.5 | 1251.9 |
| 10°   | 1040.4 | 1063.7 | 1099.1 | 1133.4 | 1106.9 | 1037.1 | 1005.0 | 958.5  | 953.0  | 949.7  | 971.8  |
| 12.5° | 824.6  | 798.0  | 814.6  | 826.8  | 801.4  | 771.5  | 758.2  | 738.3  | 749.3  | 774.8  | 789.2  |
| 15°   | 685.1  | 638.7  | 617.6  | 603.2  | 609.9  | 592.2  | 598.8  | 592.2  | 599.9  | 607.7  | 634.2  |
| 17.5° | 541.3  | 524.7  | 484.8  | 466.0  | 467.1  | 459.3  | 461.6  | 460.5  | 456.0  | 473.7  | 494.8  |
| 20°   | 407.3  | 402.9  | 394.0  | 380.8  | 383.0  | 377.4  | 374.1  | 355.3  | 347.6  | 353.1  | 370.8  |
| 22.5° | 317.7  | 323.2  | 328.7  | 327.6  | 333.2  | 318.8  | 305.5  | 288.9  | 286.7  | 287.8  | 292.2  |
| 25°   | 284.5  | 286.7  | 291.1  | 296.6  | 300.0  | 286.7  | 267.9  | 257.9  | 256.8  | 259.0  | 259.0  |
| 27.5° | 264.5  | 262.3  | 267.9  | 274.5  | 278.9  | 262.3  | 246.8  | 238.0  | 235.8  | 233.5  | 232.4  |
| 30°   | 243.5  | 243.5  | 247.9  | 254.6  | 257.9  | 243.5  | 230.2  | 221.4  | 215.8  | 212.5  | 211.4  |
| 32.5° | 228.0  | 229.1  | 231.3  | 235.8  | 241.3  | 226.9  | 215.8  | 208.1  | 198.1  | 194.8  | 192.6  |
| 35°   | 210.3  | 214.7  | 218.1  | 219.2  | 223.6  | 213.6  | 202.6  | 190.4  | 181.5  | 178.2  | 178.2  |
| 37.5° | 195.9  | 199.2  | 204.8  | 203.7  | 207.0  | 200.3  | 188.2  | 174.9  | 170.5  | 169.3  | 168.2  |
| 40°   | 184.8  | 184.8  | 189.3  | 193.7  | 198.1  | 186.0  | 171.6  | 164.9  | 161.6  | 159.4  | 160.5  |
| 42.5° | 174.9  | 173.8  | 173.8  | 181.5  | 189.3  | 171.6  | 159.4  | 155.0  | 153.9  | 151.6  | 152.7  |
| 45°   | 166.0  | 164.9  | 161.6  | 164.9  | 176.0  | 157.2  | 149.4  | 146.1  | 145.0  | 145.0  | 145.0  |
| 47.5° | 158.3  | 156.1  | 151.6  | 152.7  | 160.5  | 146.1  | 139.5  | 138.4  | 137.3  | 137.3  | 138.4  |
| 50°   | 149.4  | 147.2  | 143.9  | 142.8  | 145.0  | 138.4  | 132.8  | 130.6  | 130.6  | 130.6  | 132.8  |
| 52.5° | 141.7  | 140.6  | 136.1  | 135.0  | 136.1  | 131.7  | 126.2  | 125.1  | 125.1  | 125.1  | 128.4  |
| 55°   | 136.1  | 133.9  | 131.7  | 129.5  | 131.7  | 126.2  | 121.8  | 119.5  | 119.5  | 121.8  | 124.0  |
| 57.5° | 130.6  | 128.4  | 127.3  | 125.1  | 127.3  | 121.8  | 117.3  | 115.1  | 116.2  | 117.3  | 117.3  |
| 60°   | 125.1  | 122.9  | 121.8  | 119.5  | 122.9  | 117.3  | 112.9  | 111.8  | 111.8  | 110.7  | 110.7  |
| 62.5° | 119.5  | 118.4  | 116.2  | 114.0  | 118.4  | 111.8  | 108.5  | 106.3  | 105.2  | 105.2  | 105.2  |
| 65°   | 112.9  | 111.8  | 110.7  | 109.6  | 111.8  | 106.3  | 102.9  | 101.8  | 99.6   | 98.5   | 99.6   |
| 67.5° | 107.4  | 107.4  | 105.2  | 102.9  | 106.3  | 99.6   | 97.4   | 96.3   | 93.0   | 91.9   | 93.0   |
| 70°   | 100.7  | 100.7  | 98.5   | 97.4   | 101.8  | 93.0   | 90.8   | 89.7   | 87.4   | 86.3   | 86.3   |
| 72.5° | 94.1   | 94.1   | 91.9   | 90.8   | 96.3   | 86.3   | 84.1   | 83.0   | 79.7   | 78.6   | 78.6   |
| 75°   | 87.4   | 86.3   | 85.2   | 84.1   | 90.8   | 79.7   | 76.4   | 74.2   | 70.8   | 69.7   | 68.6   |
| 77.5° | 79.7   | 78.6   | 76.4   | 77.5   | 81.9   | 70.8   | 66.4   | 65.3   | 62.0   | 60.9   | 59.8   |
| 80°   | 69.7   | 68.6   | 67.5   | 69.7   | 69.7   | 62.0   | 56.4   | 54.2   | 50.9   | 48.7   | 47.6   |
| 82.5° | 59.8   | 58.7   | 58.7   | 60.9   | 57.6   | 54.2   | 47.6   | 43.2   | 37.6   | 34.3   | 33.2   |
| 85°   | 48.7   | 50.9   | 48.7   | 50.9   | 43.2   | 43.2   | 33.2   | 25.5   | 17.7   | 14.4   | 13.3   |
| 87.5° | 37.6   | 38.7   | 37.6   | 38.7   | 29.9   | 28.8   | 15.5   | 8.9    | 1.1    | 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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| 27.5° | 235.8  | 244.6  | 271.2  | 388.5  | 669.6  | 1023.8 | 1713.4 | 2579.0 | 2834.7 | 2904.4 |
| 30°   | 212.5  | 223.6  | 245.7  | 325.4  | 602.1  | 961.9  | 1783.1 | 2766.0 | 3008.4 | 3061.6 |
| 32.5° | 194.8  | 207.0  | 226.9  | 294.4  | 544.6  | 915.4  | 1823.0 | 2905.5 | 3156.8 | 3205.5 |
| 35°   | 182.6  | 193.7  | 213.6  | 266.8  | 493.7  | 883.3  | 1835.2 | 3043.9 | 3338.3 | 3388.1 |
| 37.5° | 171.6  | 182.6  | 200.3  | 239.1  | 458.2  | 841.2  | 1854.0 | 3208.8 | 3548.6 | 3613.9 |
| 40°   | 163.8  | 172.7  | 189.3  | 220.3  | 409.5  | 795.8  | 1876.1 | 3401.4 | 3753.4 | 3818.7 |
| 42.5° | 156.1  | 166.0  | 180.4  | 221.4  | 360.8  | 757.1  | 1890.5 | 3549.7 | 3916.1 | 3978.0 |
| 45°   | 149.4  | 160.5  | 177.1  | 216.9  | 324.3  | 721.7  | 1883.9 | 3673.7 | 4064.4 | 4112.0 |
| 47.5° | 142.8  | 156.1  | 186.0  | 208.1  | 313.2  | 689.6  | 1889.4 | 3793.2 | 4170.6 | 4208.3 |
| 50°   | 138.4  | 155.0  | 199.2  | 194.8  | 315.5  | 675.2  | 1942.5 | 3936.0 | 4250.3 | 4264.7 |
| 52.5° | 135.0  | 158.3  | 188.2  | 176.0  | 315.5  | 668.5  | 2044.4 | 4166.2 | 4388.7 | 4378.7 |
| 55°   | 129.5  | 157.2  | 176.0  | 159.4  | 302.2  | 671.9  | 2140.7 | 4470.6 | 4720.7 | 4665.4 |
| 57.5° | 125.1  | 150.5  | 158.3  | 147.2  | 271.2  | 673.0  | 2283.4 | 4727.4 | 4982.0 | 4989.7 |
| 60°   | 119.5  | 161.6  | 137.3  | 137.3  | 232.4  | 667.4  | 2409.6 | 4723.0 | 5029.6 | 5080.5 |
| 62.5° | 114.0  | 158.3  | 122.9  | 127.3  | 205.9  | 646.4  | 2486.0 | 4447.4 | 4853.6 | 4947.7 |
| 65°   | 107.4  | 125.1  | 112.9  | 118.4  | 194.8  | 594.4  | 2377.5 | 4105.3 | 4615.6 | 4716.3 |
| 67.5° | 99.6   | 102.9  | 102.9  | 109.6  | 190.4  | 515.8  | 2104.1 | 3727.9 | 4316.7 | 4438.5 |
| 70°   | 90.8   | 91.9   | 94.1   | 104.0  | 177.1  | 443.9  | 1713.4 | 3326.1 | 3995.8 | 4149.6 |
| 72.5° | 81.9   | 83.0   | 83.0   | 94.1   | 166.0  | 383.0  | 1213.1 | 2635.4 | 3336.1 | 3497.7 |
| 75°   | 71.9   | 73.1   | 71.9   | 81.9   | 145.0  | 286.7  | 720.6  | 1666.9 | 1990.1 | 2172.8 |
| 77.5° | 60.9   | 60.9   | 58.7   | 64.2   | 99.6   | 181.5  | 394.0  | 1012.8 | 1210.9 | 1323.8 |
| 80°   | 49.8   | 45.4   | 37.6   | 38.7   | 54.2   | 104.0  | 176.0  | 581.1  | 664.1  | 692.9  |
| 82.5° | 33.2   | 25.5   | 15.5   | 14.4   | 17.7   | 28.8   | 41.0   | 230.2  | 211.4  | 200.3  |
| 85°   | 6.6    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    |
| 87.5° | 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    |

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