

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: STREETWORKS

Report Number: P144809

Luminaire Tested: **RDG-E04-LED-E-U-RW-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144809  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: RDG-E04-LED-E-U-RW-7030  
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (84) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10973.6 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 97.2  
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: 28.75 FT

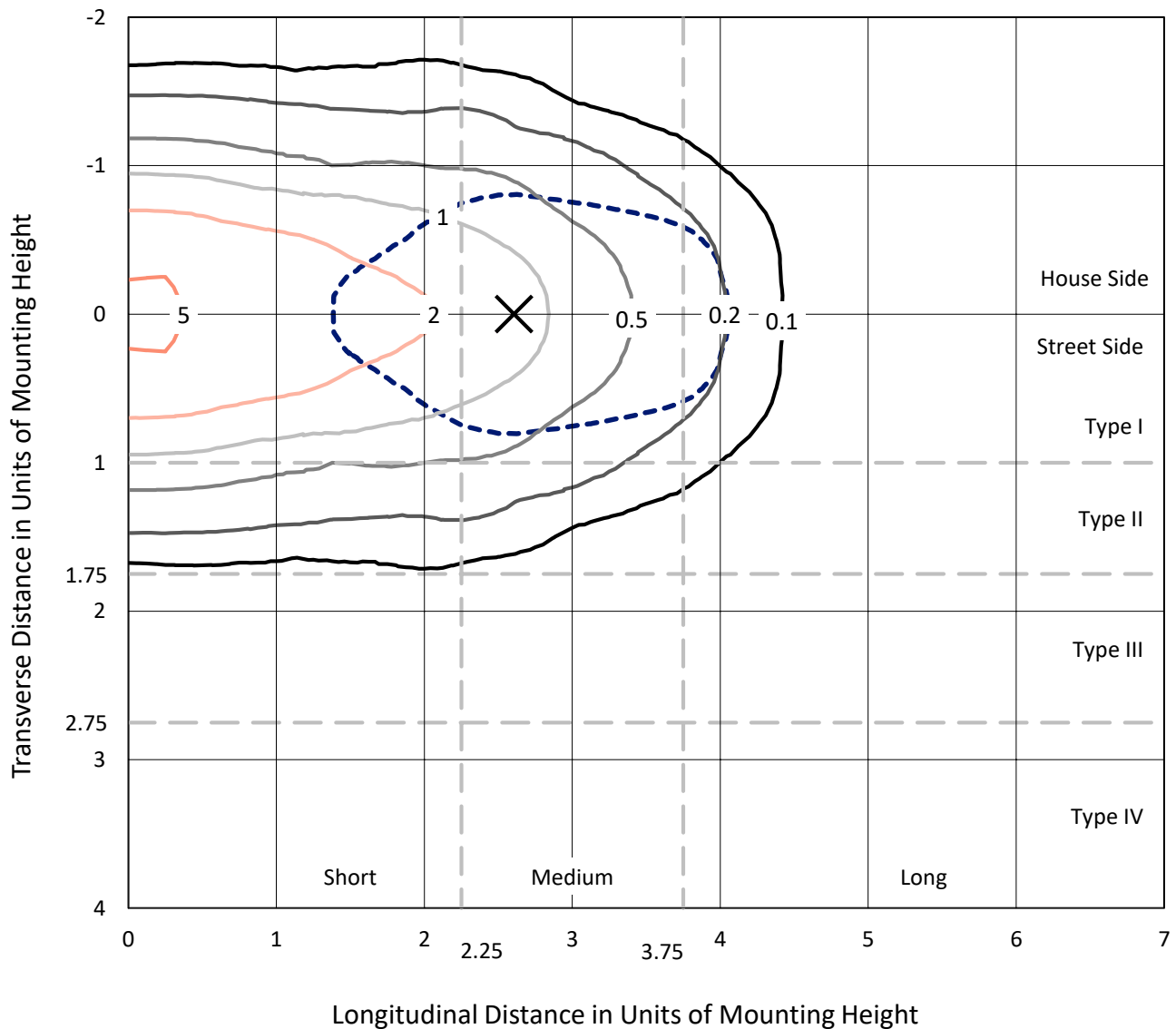


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

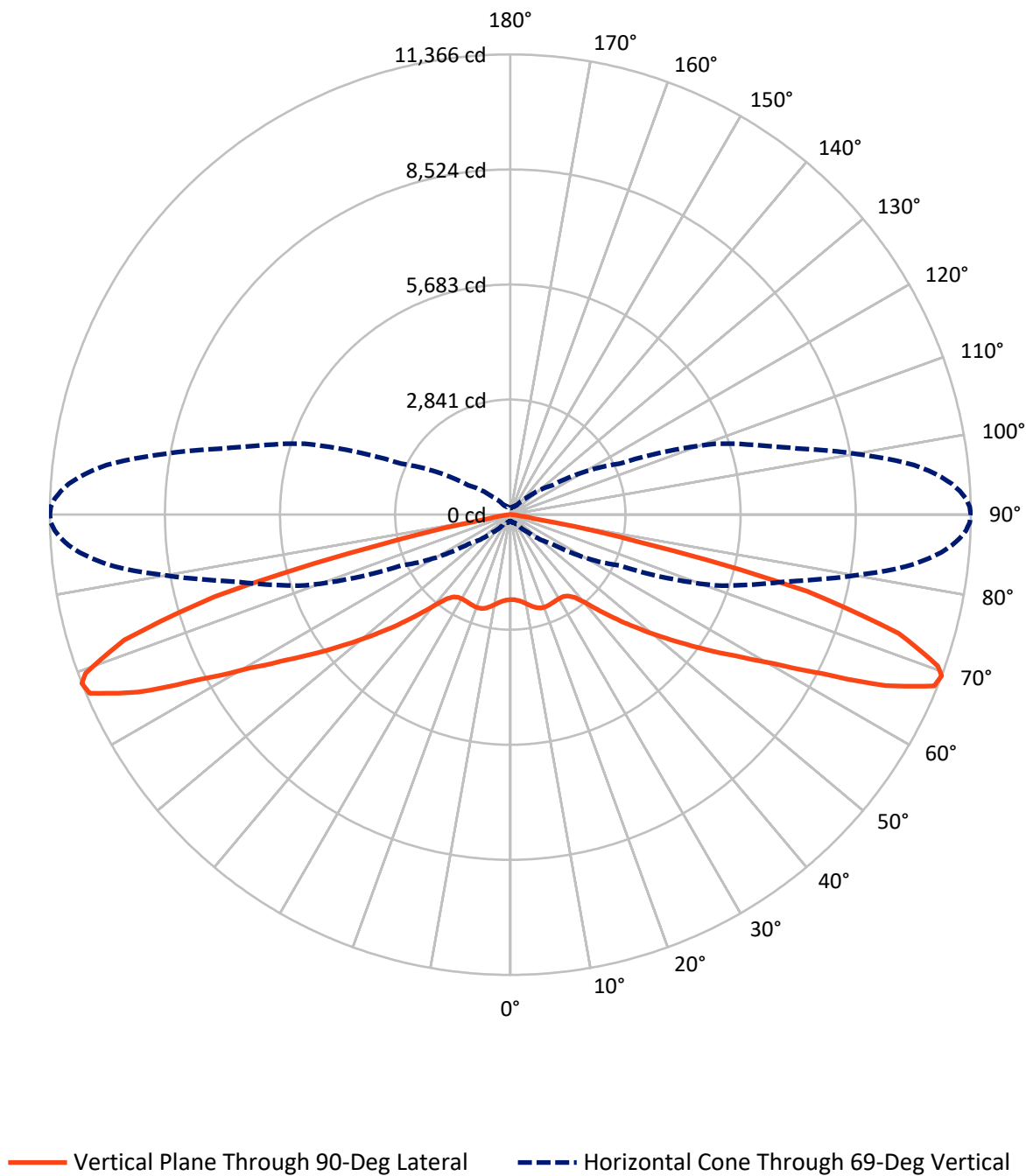


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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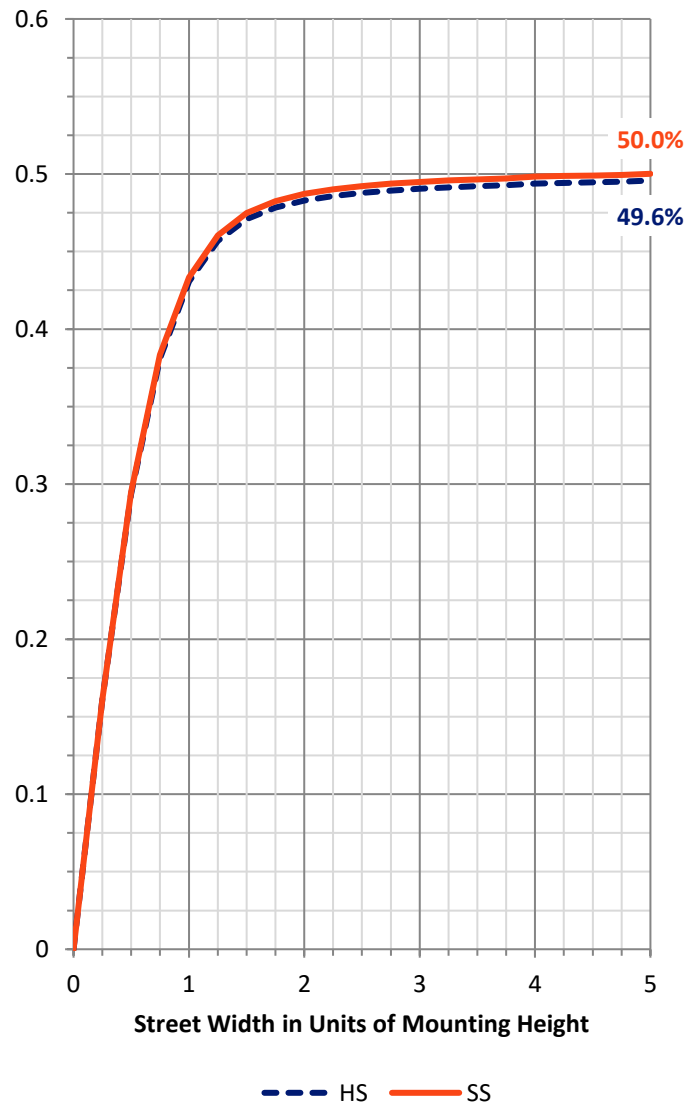
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5486.8   | 0.0    | 5486.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5486.8   | 0.0    | 5486.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10973.6  | 0.0    | 10973.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 205.6   | 1.9       |
| 10°-20°   | 647.5   | 5.9       |
| 20°-30°   | 1048.7  | 9.6       |
| 30°-40°   | 1306.4  | 11.9      |
| 40°-50°   | 1626.4  | 14.8      |
| 50°-60°   | 1995.6  | 18.2      |
| 60°-70°   | 2461.2  | 22.4      |
| 70°-80°   | 1530.1  | 13.9      |
| 80°-90°   | 152.0   | 1.4       |
| 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°    | 10973.6 | 100.0     |
| 0°-180°   | 10973.6 | 100.0     |

**Coefficient of Utilization**



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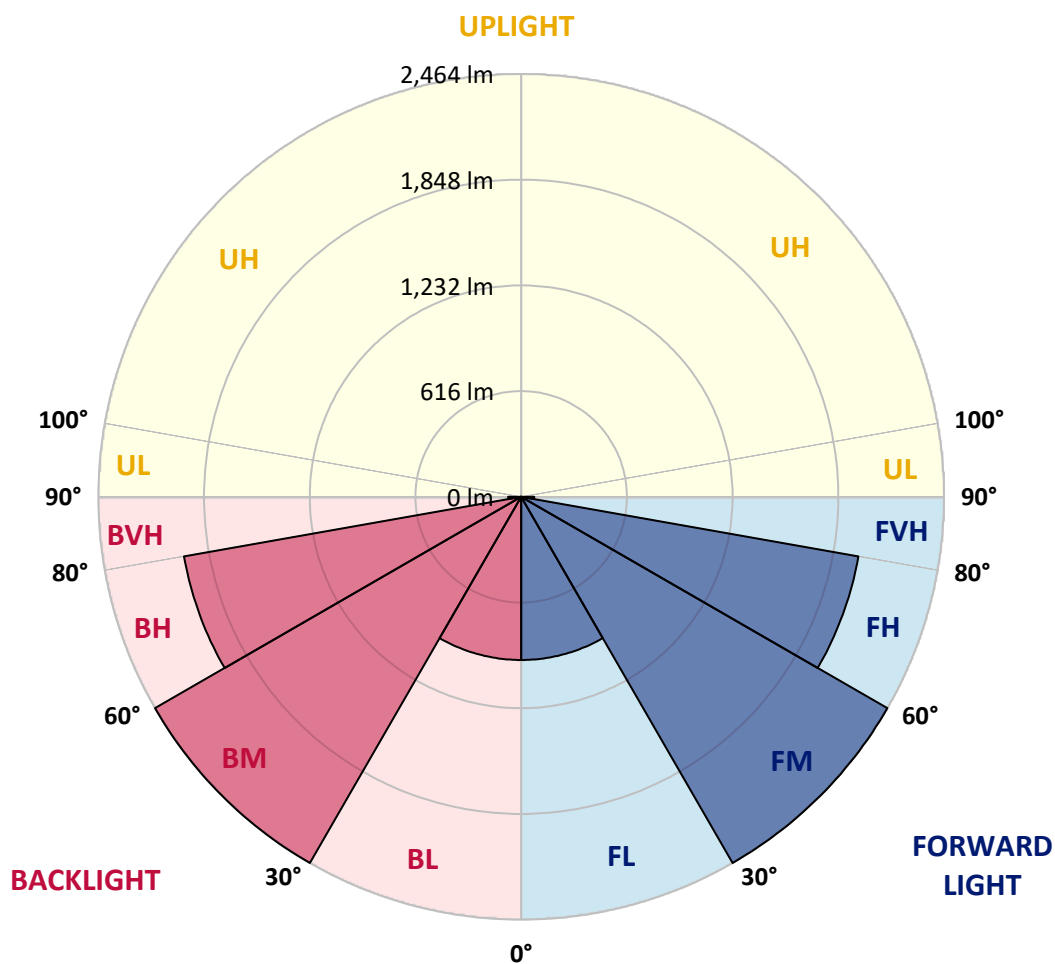
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 950.9  | 8.7       |                         |      |         |
| FM   | (30°-60°)   | 2464.2 | 22.5      |                         |      |         |
| FH   | (60°-80°)   | 1995.7 | 18.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 76.0   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 950.9  | 8.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2464.2 | 22.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1995.7 | 18.2      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 76.0   | 0.7       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 |
| 2.5°  | 2107.0 | 2104.8 | 2108.8 | 2112.4 | 2111.3 | 2112.0 | 2110.6 | 2108.8 | 2108.9 | 2109.0 | 2109.2 |
| 5°    | 2123.4 | 2121.2 | 2124.8 | 2128.1 | 2129.2 | 2131.8 | 2132.5 | 2131.4 | 2131.9 | 2132.4 | 2132.9 |
| 7.5°  | 2143.1 | 2141.3 | 2146.0 | 2150.4 | 2158.8 | 2163.2 | 2167.6 | 2172.0 | 2172.3 | 2172.7 | 2173.1 |
| 10°   | 2161.7 | 2160.6 | 2168.2 | 2177.8 | 2191.3 | 2201.6 | 2214.0 | 2226.0 | 2227.0 | 2227.9 | 2228.8 |
| 12.5° | 2173.8 | 2173.8 | 2185.4 | 2202.6 | 2226.0 | 2246.8 | 2268.0 | 2288.5 | 2290.4 | 2292.3 | 2294.2 |
| 15°   | 2173.0 | 2174.5 | 2192.4 | 2223.8 | 2264.0 | 2300.9 | 2326.8 | 2349.1 | 2350.9 | 2352.8 | 2354.6 |
| 17.5° | 2158.0 | 2158.4 | 2184.0 | 2234.0 | 2296.9 | 2351.7 | 2385.3 | 2397.4 | 2398.0 | 2398.7 | 2399.4 |
| 20°   | 2116.0 | 2119.0 | 2155.1 | 2227.8 | 2322.4 | 2398.1 | 2429.9 | 2424.8 | 2423.6 | 2422.6 | 2421.4 |
| 22.5° | 2044.0 | 2047.8 | 2096.0 | 2193.5 | 2327.2 | 2428.0 | 2461.0 | 2437.9 | 2434.4 | 2430.9 | 2427.4 |
| 25°   | 1944.0 | 1950.2 | 2002.5 | 2127.4 | 2295.1 | 2436.8 | 2481.0 | 2444.2 | 2438.7 | 2433.2 | 2427.7 |
| 27.5° | 1828.2 | 1831.0 | 1892.8 | 2024.0 | 2220.1 | 2407.6 | 2490.2 | 2456.9 | 2450.0 | 2443.2 | 2436.3 |
| 30°   | 1694.0 | 1701.8 | 1766.1 | 1903.1 | 2114.6 | 2339.6 | 2486.5 | 2481.8 | 2474.1 | 2466.4 | 2458.7 |
| 32.5° | 1560.8 | 1567.3 | 1630.6 | 1778.1 | 1993.0 | 2245.0 | 2468.2 | 2519.4 | 2512.9 | 2506.5 | 2500.1 |
| 35°   | 1426.2 | 1434.3 | 1499.4 | 1657.9 | 1872.0 | 2137.6 | 2439.4 | 2573.1 | 2570.3 | 2567.5 | 2564.8 |
| 37.5° | 1308.3 | 1313.4 | 1377.3 | 1542.1 | 1766.0 | 2039.3 | 2401.8 | 2645.0 | 2651.3 | 2657.6 | 2663.9 |
| 40°   | 1188.1 | 1193.2 | 1260.0 | 1428.8 | 1668.5 | 1955.3 | 2367.0 | 2735.7 | 2752.9 | 2770.0 | 2787.2 |
| 42.5° | 1072.6 | 1077.0 | 1141.7 | 1310.1 | 1560.0 | 1882.6 | 2346.2 | 2845.2 | 2878.2 | 2911.2 | 2944.1 |
| 45°   | 954.3  | 957.2  | 1017.9 | 1181.8 | 1436.2 | 1797.8 | 2340.8 | 2968.4 | 3016.0 | 3063.5 | 3111.1 |
| 47.5° | 837.8  | 844.6  | 907.2  | 1062.8 | 1294.8 | 1676.6 | 2332.7 | 3104.6 | 3167.7 | 3230.8 | 3293.8 |
| 50°   | 726.3  | 734.0  | 798.3  | 945.9  | 1158.2 | 1532.6 | 2291.8 | 3259.2 | 3336.1 | 3412.9 | 3489.8 |
| 52.5° | 612.7  | 620.3  | 684.7  | 825.7  | 1031.4 | 1370.4 | 2177.8 | 3421.4 | 3512.8 | 3604.2 | 3695.6 |
| 55°   | 491.4  | 494.3  | 560.4  | 701.8  | 904.6  | 1234.5 | 1996.2 | 3570.1 | 3680.8 | 3791.5 | 3902.2 |
| 57.5° | 357.3  | 367.2  | 432.6  | 564.0  | 775.2  | 1114.2 | 1765.4 | 3646.1 | 3784.3 | 3922.4 | 4060.6 |
| 60°   | 258.0  | 264.5  | 321.8  | 425.2  | 628.8  | 996.2  | 1560.4 | 3590.6 | 3775.0 | 3959.4 | 4143.8 |
| 62.5° | 203.8  | 211.2  | 255.4  | 320.4  | 486.3  | 866.6  | 1426.6 | 3438.2 | 3696.9 | 3955.7 | 4214.4 |
| 65°   | 180.4  | 187.0  | 228.0  | 260.2  | 371.9  | 733.2  | 1342.6 | 3287.4 | 3636.5 | 3985.7 | 4334.9 |
| 67.5° | 164.8  | 171.7  | 207.5  | 229.4  | 307.2  | 647.4  | 1302.8 | 3173.4 | 3576.6 | 3979.9 | 4383.1 |
| 69°   | 157.4  | 163.6  | 196.6  | 217.0  | 289.8  | 618.2  | 1260.1 | 2980.4 | 3380.3 | 3780.1 | 4179.9 |
| 70°   | 153.4  | 158.9  | 188.9  | 209.4  | 282.8  | 594.0  | 1196.8 | 2751.0 | 3136.8 | 3522.6 | 3908.4 |
| 72.5° | 142.1  | 145.8  | 171.0  | 190.0  | 258.7  | 474.2  | 902.8  | 1941.0 | 2268.1 | 2595.2 | 2922.2 |
| 75°   | 126.0  | 130.4  | 152.7  | 170.2  | 197.3  | 285.0  | 565.2  | 1126.7 | 1350.8 | 1574.9 | 1799.0 |
| 77.5° | 108.1  | 113.2  | 131.6  | 159.3  | 158.9  | 185.6  | 343.0  | 647.0  | 755.9  | 864.8  | 973.7  |
| 80°   | 92.8   | 97.2   | 113.6  | 157.4  | 133.0  | 146.9  | 255.7  | 482.6  | 526.4  | 570.3  | 614.1  |
| 82.5° | 72.7   | 76.4   | 95.4   | 130.0  | 106.3  | 111.8  | 194.7  | 439.5  | 469.2  | 499.0  | 528.7  |
| 85°   | 45.6   | 47.2   | 69.4   | 89.9   | 75.6   | 67.6   | 125.4  | 338.3  | 359.9  | 381.6  | 403.2  |
| 87.5° | 18.2   | 22.3   | 33.6   | 32.2   | 32.6   | 27.0   | 40.6   | 122.0  | 133.1  | 144.2  | 155.3  |
| 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):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 | 2101.4 |
| 2.5°  | 2109.4 | 2109.5 | 2108.8 | 2107.6 | 2108.8 | 2107.6 | 2108.0 | 2109.1 | 2108.7 | 2108.8 | 2108.0 |
| 5°    | 2133.4 | 2134.0 | 2134.0 | 2131.8 | 2132.9 | 2133.2 | 2133.6 | 2132.8 | 2133.2 | 2134.0 | 2132.4 |
| 7.5°  | 2173.4 | 2173.8 | 2174.8 | 2176.0 | 2175.2 | 2175.6 | 2176.3 | 2175.6 | 2174.5 | 2177.0 | 2175.2 |
| 10°   | 2229.8 | 2230.8 | 2230.8 | 2234.0 | 2232.6 | 2233.7 | 2237.0 | 2237.0 | 2235.2 | 2237.7 | 2237.0 |
| 12.5° | 2296.1 | 2298.0 | 2297.6 | 2297.2 | 2298.8 | 2299.8 | 2303.5 | 2304.2 | 2305.0 | 2309.0 | 2307.5 |
| 15°   | 2356.4 | 2358.2 | 2359.8 | 2360.4 | 2363.0 | 2363.8 | 2366.0 | 2367.4 | 2368.5 | 2370.0 | 2370.7 |
| 17.5° | 2400.0 | 2400.6 | 2402.8 | 2401.8 | 2405.4 | 2404.6 | 2407.2 | 2408.3 | 2409.4 | 2411.2 | 2412.4 |
| 20°   | 2420.4 | 2419.2 | 2419.6 | 2418.6 | 2418.6 | 2419.2 | 2419.6 | 2421.2 | 2420.4 | 2422.2 | 2423.6 |
| 22.5° | 2423.9 | 2420.4 | 2418.2 | 2415.6 | 2414.5 | 2412.4 | 2412.4 | 2413.1 | 2410.5 | 2412.4 | 2414.6 |
| 25°   | 2422.2 | 2416.7 | 2412.7 | 2408.4 | 2404.3 | 2400.6 | 2398.4 | 2397.7 | 2395.9 | 2395.9 | 2397.7 |
| 27.5° | 2429.5 | 2422.6 | 2416.8 | 2409.4 | 2404.3 | 2399.2 | 2394.4 | 2390.8 | 2387.1 | 2386.4 | 2386.4 |
| 30°   | 2451.1 | 2443.4 | 2436.8 | 2427.7 | 2419.6 | 2413.1 | 2406.5 | 2401.4 | 2394.4 | 2391.6 | 2388.2 |
| 32.5° | 2493.7 | 2487.2 | 2478.1 | 2470.0 | 2460.6 | 2452.6 | 2443.8 | 2435.7 | 2427.6 | 2420.4 | 2417.4 |
| 35°   | 2562.0 | 2559.2 | 2554.0 | 2548.6 | 2539.4 | 2529.2 | 2522.0 | 2512.4 | 2503.4 | 2492.7 | 2489.8 |
| 37.5° | 2670.2 | 2676.4 | 2673.6 | 2669.6 | 2667.0 | 2663.7 | 2653.8 | 2647.6 | 2641.4 | 2632.6 | 2630.8 |
| 40°   | 2804.4 | 2821.6 | 2838.6 | 2850.0 | 2846.0 | 2859.5 | 2861.7 | 2862.8 | 2857.4 | 2864.6 | 2866.1 |
| 42.5° | 2977.1 | 3010.0 | 3041.1 | 3063.8 | 3090.0 | 3109.8 | 3135.4 | 3146.3 | 3167.1 | 3188.6 | 3201.1 |
| 45°   | 3158.7 | 3206.2 | 3250.8 | 3297.2 | 3342.8 | 3393.0 | 3441.5 | 3475.8 | 3525.8 | 3563.2 | 3586.6 |
| 47.5° | 3356.9 | 3420.0 | 3473.3 | 3542.7 | 3608.8 | 3668.0 | 3753.2 | 3821.5 | 3882.4 | 3940.6 | 4001.6 |
| 50°   | 3566.7 | 3643.6 | 3709.3 | 3794.0 | 3874.4 | 3967.2 | 4067.0 | 4154.0 | 4249.6 | 4342.0 | 4424.2 |
| 52.5° | 3787.0 | 3878.4 | 3967.2 | 4054.2 | 4151.8 | 4252.5 | 4360.7 | 4486.4 | 4601.0 | 4740.3 | 4840.0 |
| 55°   | 4012.9 | 4123.6 | 4218.2 | 4309.2 | 4412.6 | 4524.4 | 4653.0 | 4801.7 | 4947.4 | 5099.8 | 5251.0 |
| 57.5° | 4198.8 | 4337.0 | 4440.4 | 4546.6 | 4658.0 | 4768.8 | 4928.4 | 5080.8 | 5265.6 | 5452.7 | 5642.0 |
| 60°   | 4328.3 | 4512.7 | 4638.0 | 4772.5 | 4901.4 | 5035.8 | 5207.9 | 5400.4 | 5631.8 | 5858.2 | 6115.4 |
| 62.5° | 4473.2 | 4731.9 | 4907.6 | 5087.0 | 5243.7 | 5405.2 | 5635.4 | 5857.1 | 6154.2 | 6415.0 | 6738.7 |
| 65°   | 4684.1 | 5033.2 | 5292.0 | 5533.8 | 5744.2 | 5964.2 | 6237.1 | 6514.4 | 6854.2 | 7214.8 | 7620.6 |
| 67.5° | 4786.4 | 5189.6 | 5528.4 | 5826.8 | 6095.7 | 6376.0 | 6657.6 | 6985.7 | 7368.6 | 7802.6 | 8248.3 |
| 69°   | 4579.8 | 4979.6 | 5369.0 | 5670.8 | 5954.0 | 6253.2 | 6554.6 | 6885.6 | 7262.6 | 7713.1 | 8185.4 |
| 70°   | 4294.2 | 4680.0 | 5094.0 | 5396.4 | 5682.1 | 5992.6 | 6299.6 | 6633.8 | 6994.4 | 7458.4 | 7936.2 |
| 72.5° | 3249.3 | 3576.4 | 3978.2 | 4297.8 | 4598.2 | 4912.0 | 5228.0 | 5518.1 | 5883.8 | 6330.2 | 6770.5 |
| 75°   | 2023.1 | 2247.2 | 2608.5 | 2929.6 | 3171.2 | 3440.0 | 3736.7 | 4011.4 | 4378.6 | 4695.0 | 5118.4 |
| 77.5° | 1082.5 | 1191.4 | 1402.2 | 1632.4 | 1766.8 | 1898.0 | 2091.2 | 2240.3 | 2394.8 | 2577.9 | 2752.8 |
| 80°   | 658.0  | 701.8  | 773.8  | 823.5  | 804.8  | 751.2  | 734.0  | 680.2  | 699.6  | 666.8  | 643.0  |
| 82.5° | 558.5  | 588.2  | 632.0  | 662.0  | 640.0  | 554.2  | 457.0  | 384.7  | 333.6  | 284.6  | 241.8  |
| 85°   | 424.8  | 446.4  | 469.1  | 482.6  | 481.6  | 438.8  | 348.5  | 270.0  | 210.4  | 163.0  | 135.5  |
| 87.5° | 166.4  | 177.5  | 194.0  | 191.4  | 199.8  | 201.3  | 157.4  | 121.7  | 86.6   | 58.4   | 51.2   |
| 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):**

|       | 80°    | 81°    | 82°    | 83°     | 84°     | 85°     | 86°     | 87°     | 88°     | 89°     | 90°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2101.4 | 2101.4 | 2101.4 | 2101.4  | 2101.4  | 2101.4  | 2101.4  | 2101.4  | 2101.4  | 2101.4  | 2101.4  |
| 2.5°  | 2106.6 | 2106.2 | 2106.6 | 2107.6  | 2107.6  | 2108.4  | 2107.6  | 2108.0  | 2107.0  | 2105.8  | 2106.6  |
| 5°    | 2132.5 | 2131.8 | 2132.5 | 2133.2  | 2133.2  | 2132.5  | 2134.4  | 2134.3  | 2133.6  | 2132.5  | 2132.9  |
| 7.5°  | 2177.0 | 2177.4 | 2176.4 | 2180.0  | 2176.7  | 2177.0  | 2179.2  | 2178.9  | 2178.2  | 2178.5  | 2178.9  |
| 10°   | 2239.2 | 2238.8 | 2239.5 | 2241.7  | 2238.4  | 2240.6  | 2243.2  | 2243.9  | 2242.1  | 2242.1  | 2242.5  |
| 12.5° | 2307.8 | 2310.8 | 2311.2 | 2312.6  | 2312.6  | 2314.4  | 2314.8  | 2315.2  | 2316.6  | 2317.0  | 2314.8  |
| 15°   | 2373.6 | 2375.8 | 2377.2 | 2378.7  | 2376.9  | 2379.4  | 2382.4  | 2382.4  | 2382.0  | 2383.5  | 2381.3  |
| 17.5° | 2414.2 | 2416.0 | 2418.6 | 2418.2  | 2418.6  | 2420.8  | 2422.6  | 2423.3  | 2424.0  | 2424.0  | 2424.4  |
| 20°   | 2427.0 | 2428.0 | 2429.6 | 2431.0  | 2431.7  | 2433.9  | 2435.4  | 2436.4  | 2437.2  | 2436.4  | 2436.8  |
| 22.5° | 2416.7 | 2418.2 | 2421.1 | 2422.2  | 2422.6  | 2425.9  | 2427.3  | 2428.4  | 2429.2  | 2429.9  | 2428.8  |
| 25°   | 2399.2 | 2400.6 | 2403.6 | 2404.6  | 2405.4  | 2408.3  | 2410.1  | 2412.7  | 2413.4  | 2413.8  | 2414.2  |
| 27.5° | 2387.2 | 2387.9 | 2390.0 | 2391.5  | 2391.9  | 2395.2  | 2397.8  | 2399.6  | 2400.0  | 2400.3  | 2400.3  |
| 30°   | 2387.5 | 2387.5 | 2390.1 | 2390.4  | 2390.0  | 2393.0  | 2394.4  | 2395.6  | 2396.2  | 2396.2  | 2396.6  |
| 32.5° | 2412.7 | 2411.2 | 2413.4 | 2410.1  | 2410.5  | 2410.1  | 2409.8  | 2410.9  | 2410.2  | 2410.6  | 2409.1  |
| 35°   | 2484.0 | 2479.9 | 2476.6 | 2478.1  | 2473.0  | 2465.6  | 2469.7  | 2467.9  | 2463.8  | 2464.2  | 2465.3  |
| 37.5° | 2620.6 | 2616.6 | 2620.2 | 2617.0  | 2618.0  | 2607.8  | 2610.4  | 2601.2  | 2598.6  | 2602.0  | 2592.5  |
| 40°   | 2863.2 | 2861.4 | 2868.3 | 2865.4  | 2867.2  | 2870.1  | 2872.6  | 2863.9  | 2849.2  | 2862.5  | 2862.8  |
| 42.5° | 3199.2 | 3215.7 | 3222.3 | 3231.4  | 3241.3  | 3236.9  | 3245.6  | 3248.2  | 3232.2  | 3244.2  | 3247.1  |
| 45°   | 3620.9 | 3638.4 | 3658.9 | 3665.0  | 3681.2  | 3683.4  | 3690.0  | 3691.8  | 3677.2  | 3678.6  | 3681.9  |
| 47.5° | 4062.6 | 4094.7 | 4118.8 | 4135.6  | 4152.4  | 4155.8  | 4159.4  | 4152.4  | 4153.6  | 4156.8  | 4156.8  |
| 50°   | 4496.6 | 4565.3 | 4608.0 | 4641.2  | 4670.2  | 4655.2  | 4668.0  | 4669.0  | 4673.4  | 4664.3  | 4669.8  |
| 52.5° | 4952.9 | 5043.9 | 5115.5 | 5171.4  | 5188.9  | 5242.2  | 5220.4  | 5237.2  | 5248.5  | 5231.6  | 5242.6  |
| 55°   | 5398.6 | 5528.3 | 5643.4 | 5724.5  | 5781.5  | 5835.6  | 5844.0  | 5887.4  | 5882.4  | 5898.8  | 5891.5  |
| 57.5° | 5822.5 | 6003.7 | 6168.0 | 6288.2  | 6370.1  | 6452.6  | 6508.5  | 6556.0  | 6560.8  | 6607.9  | 6581.2  |
| 60°   | 6335.0 | 6587.4 | 6799.0 | 6978.0  | 7099.0  | 7221.7  | 7318.5  | 7396.3  | 7414.2  | 7495.0  | 7468.3  |
| 62.5° | 7026.6 | 7334.6 | 7604.9 | 7815.0  | 8084.2  | 8214.0  | 8402.4  | 8520.1  | 8593.5  | 8613.6  | 8651.3  |
| 65°   | 7998.8 | 8399.9 | 8756.5 | 9092.6  | 9395.4  | 9605.5  | 9823.6  | 9999.0  | 10139.7 | 10128.0 | 10185.7 |
| 67.5° | 8721.0 | 9178.4 | 9607.8 | 10010.7 | 10336.6 | 10606.9 | 10857.6 | 11047.2 | 11172.8 | 11252.8 | 11286.8 |
| 69°   | 8645.8 | 9136.8 | 9610.2 | 10040.6 | 10376.8 | 10678.9 | 10923.0 | 11109.6 | 11253.6 | 11340.5 | 11365.7 |
| 70°   | 8395.6 | 8900.0 | 9393.6 | 9816.0  | 10158.6 | 10490.4 | 10738.8 | 10946.7 | 11083.7 | 11178.7 | 11193.3 |
| 72.5° | 7261.8 | 7808.4 | 8245.0 | 8705.7  | 9035.6  | 9371.3  | 9527.8  | 9785.2  | 9964.0  | 10021.6 | 10020.5 |
| 75°   | 5477.2 | 5933.2 | 6316.8 | 6657.2  | 6952.4  | 7180.0  | 7253.8  | 7437.2  | 7585.6  | 7583.7  | 7569.8  |
| 77.5° | 2949.4 | 3056.8 | 3200.4 | 3248.6  | 3339.6  | 3338.1  | 3246.8  | 3275.6  | 3359.6  | 3196.8  | 3249.3  |
| 80°   | 632.8  | 623.3  | 615.2  | 610.4   | 607.9   | 609.0   | 612.3   | 591.4   | 612.0   | 602.8   | 564.1   |
| 82.5° | 220.3  | 215.2  | 210.1  | 213.8   | 211.2   | 213.4   | 212.6   | 215.2   | 214.8   | 214.1   | 209.0   |
| 85°   | 123.8  | 119.4  | 116.9  | 118.7   | 114.7   | 111.0   | 108.5   | 107.4   | 107.0   | 104.5   | 103.0   |
| 87.5° | 47.1   | 46.8   | 46.4   | 44.6    | 40.2    | 36.9    | 34.7    | 30.4    | 28.5    | 26.0    | 24.1    |
| 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)