

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: P144200

Luminaire Tested: **RDG-E03-LED-E-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144200  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: RDG-E03-LED-E-U-5WQ  
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9196.7 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 75.2  
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



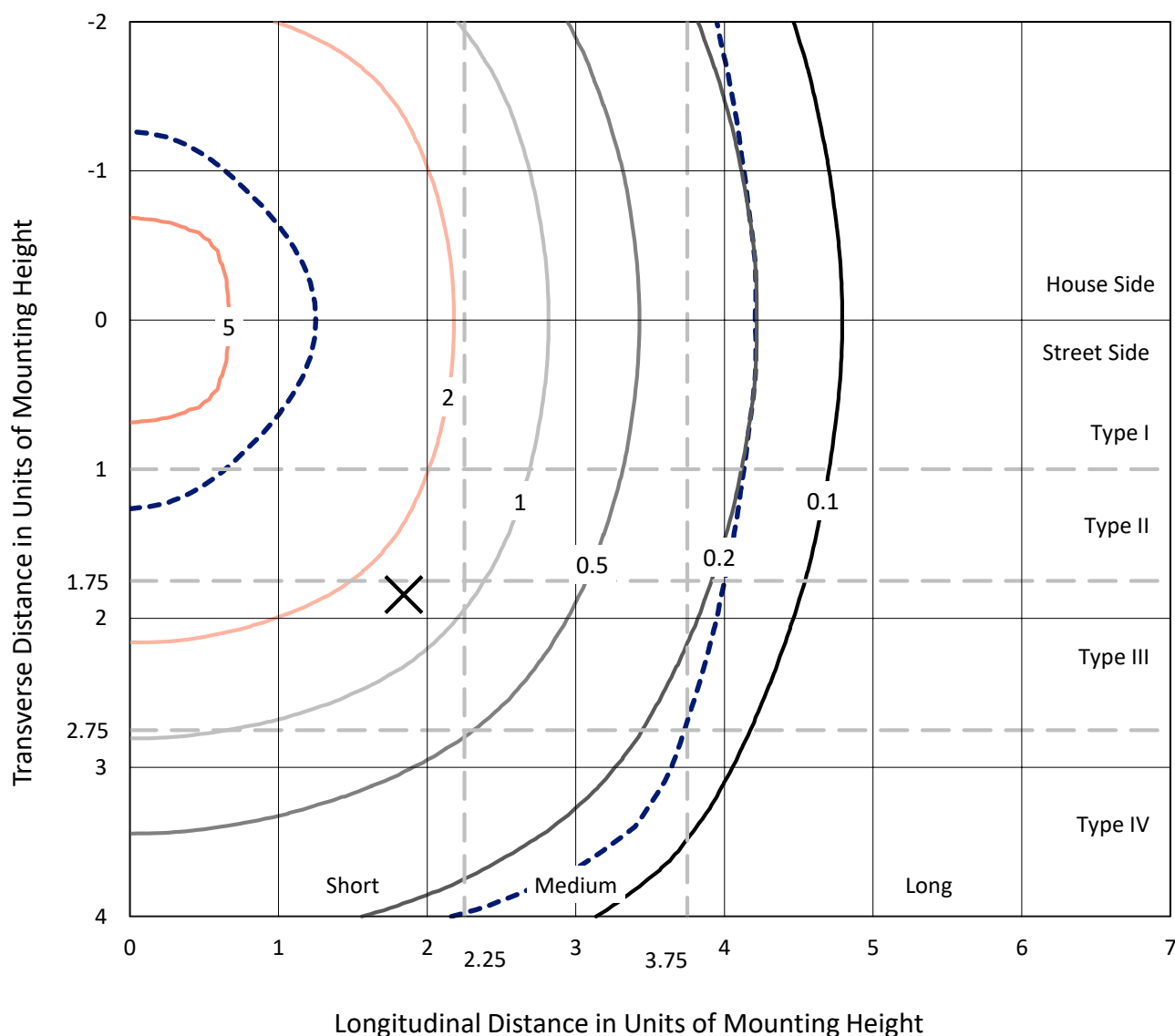
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

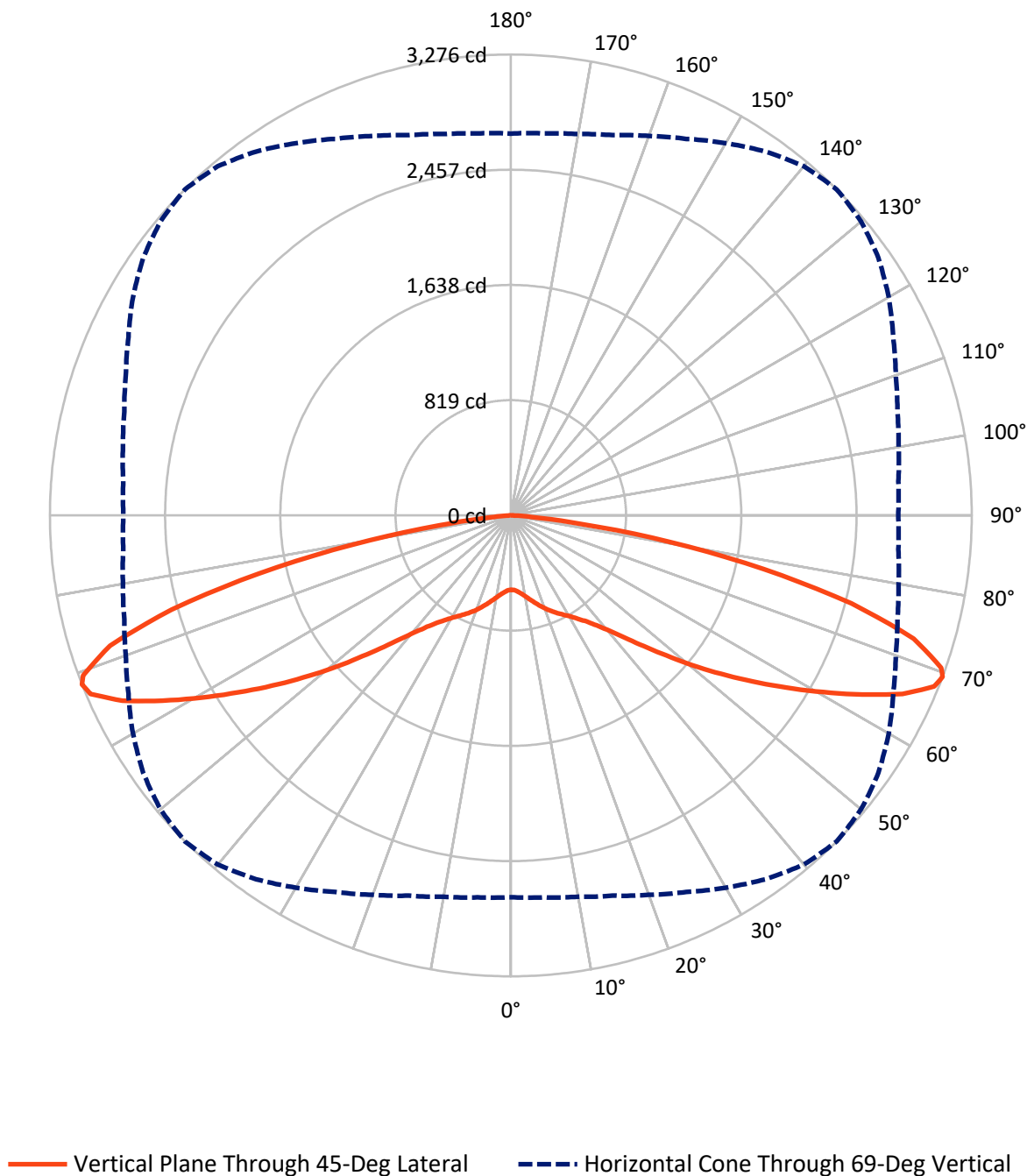


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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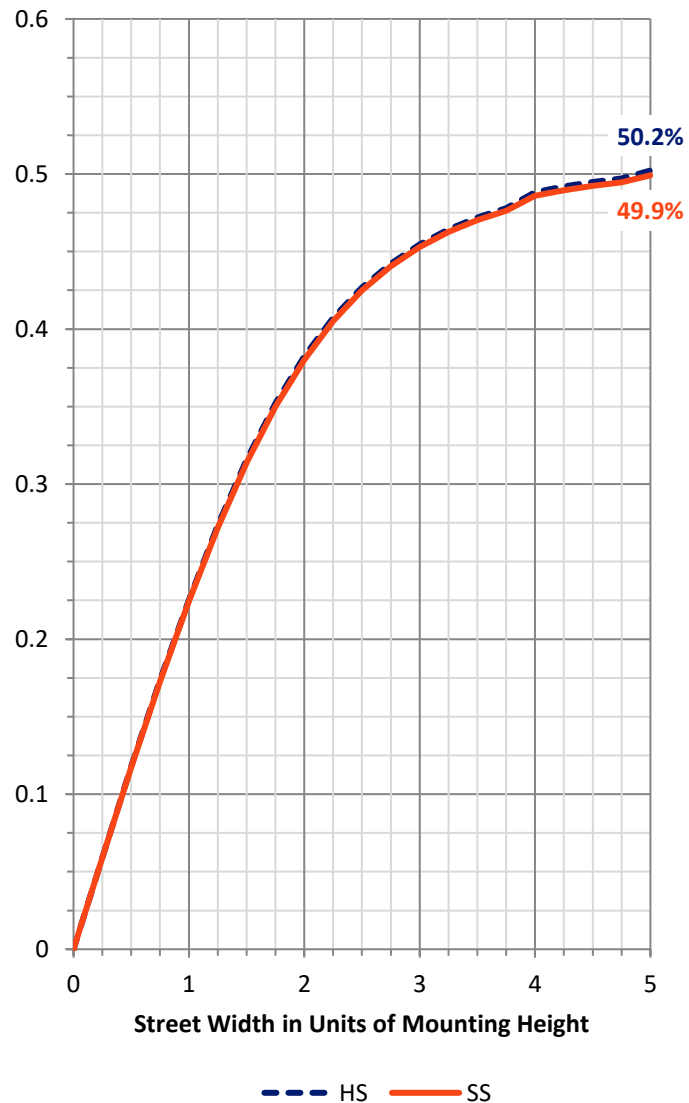
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4598.3   | 0.0    | 4598.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4598.3   | 0.0    | 4598.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9196.7   | 0.0    | 9196.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.3   | 0.6       |
| 10°-20°   | 183.8  | 2.0       |
| 20°-30°   | 354.3  | 3.9       |
| 30°-40°   | 580.5  | 6.3       |
| 40°-50°   | 1009.4 | 11.0      |
| 50°-60°   | 1793.1 | 19.5      |
| 60°-70°   | 2783.8 | 30.3      |
| 70°-80°   | 2218.0 | 24.1      |
| 80°-90°   | 220.6  | 2.4       |
| 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°    | 9196.7 | 100.0     |
| 0°-180°   | 9196.7 | 100.0     |

**Coefficient of Utilization**



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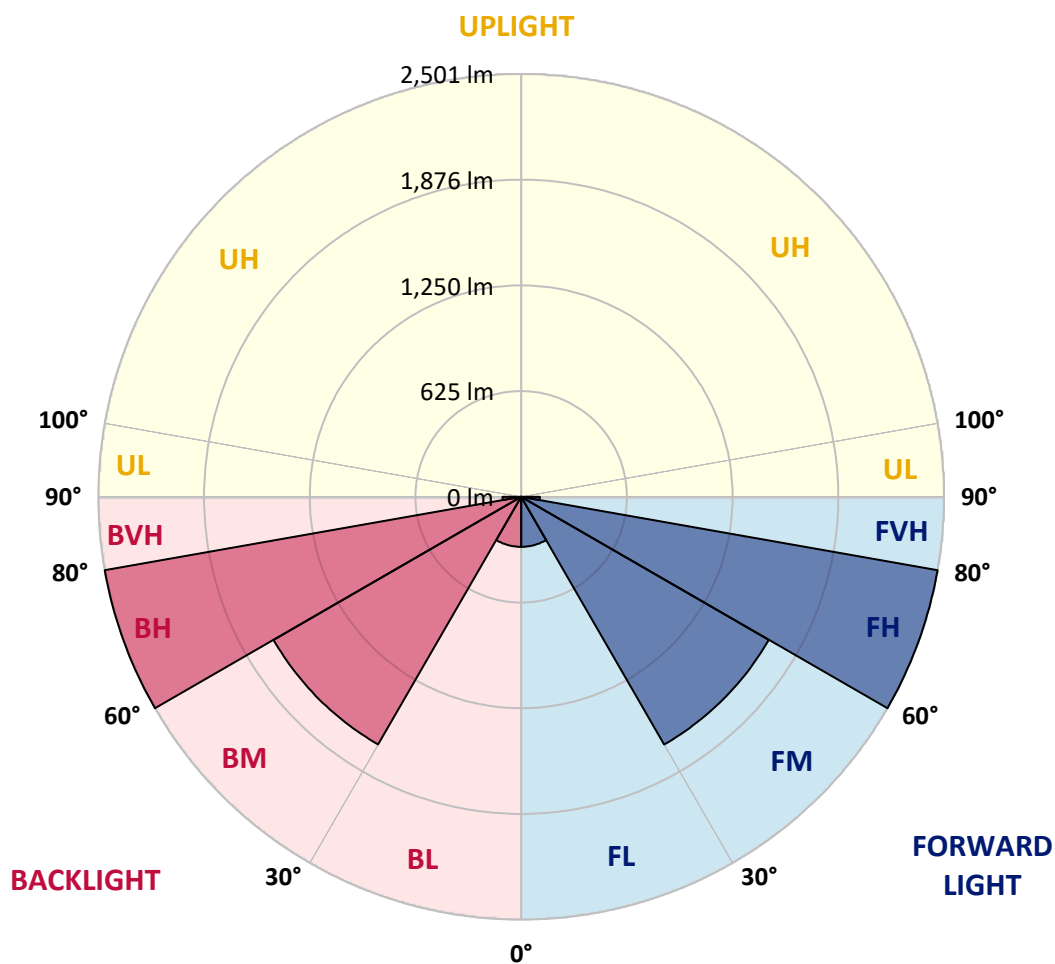
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 295.7  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 1691.5 | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 2500.9 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 110.3  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 295.7  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1691.5 | 18.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2500.9 | 27.2      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 110.3  | 1.2       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  |
| 2.5°  | 532.8  | 532.8  | 532.8  | 532.2  | 532.2  | 531.6  | 532.2  | 531.6  | 531.6  | 531.6  | 531.6  |
| 5°    | 546.6  | 545.4  | 545.4  | 544.8  | 546.0  | 546.0  | 544.8  | 545.4  | 544.8  | 545.4  | 545.4  |
| 7.5°  | 564.0  | 564.0  | 564.0  | 563.4  | 564.6  | 564.0  | 563.4  | 564.0  | 564.0  | 563.4  | 563.4  |
| 10°   | 585.6  | 586.2  | 585.6  | 585.6  | 587.4  | 586.8  | 587.4  | 587.4  | 588.0  | 587.4  | 587.4  |
| 12.5° | 610.8  | 610.8  | 611.4  | 612.0  | 612.6  | 613.2  | 615.0  | 614.4  | 615.6  | 614.4  | 614.4  |
| 15°   | 640.2  | 641.4  | 640.2  | 640.2  | 642.0  | 643.2  | 643.8  | 643.8  | 645.0  | 644.4  | 643.2  |
| 17.5° | 671.4  | 672.0  | 671.4  | 670.8  | 672.6  | 674.4  | 675.0  | 675.0  | 676.8  | 675.6  | 675.6  |
| 20°   | 703.2  | 703.8  | 702.6  | 702.0  | 704.4  | 704.4  | 705.6  | 706.2  | 708.0  | 708.6  | 706.8  |
| 22.5° | 732.6  | 733.2  | 732.6  | 732.0  | 734.4  | 734.4  | 736.2  | 736.8  | 739.2  | 738.6  | 738.6  |
| 25°   | 761.4  | 761.4  | 760.8  | 760.8  | 763.2  | 763.8  | 765.6  | 766.8  | 769.2  | 769.2  | 769.2  |
| 27.5° | 787.8  | 788.4  | 787.2  | 786.6  | 791.4  | 793.2  | 794.4  | 796.8  | 798.6  | 799.8  | 799.2  |
| 30°   | 817.8  | 817.8  | 817.2  | 819.0  | 822.0  | 824.4  | 826.8  | 830.4  | 834.0  | 832.8  | 832.8  |
| 32.5° | 853.2  | 854.4  | 853.8  | 856.2  | 859.8  | 863.4  | 866.4  | 870.6  | 872.4  | 875.4  | 873.0  |
| 35°   | 900.6  | 903.0  | 901.8  | 904.2  | 907.2  | 909.6  | 916.2  | 920.4  | 923.4  | 925.2  | 924.0  |
| 37.5° | 960.0  | 958.8  | 961.2  | 961.8  | 967.8  | 970.8  | 978.6  | 984.6  | 989.4  | 991.2  | 990.0  |
| 40°   | 1033.8 | 1032.0 | 1035.0 | 1038.0 | 1045.8 | 1048.8 | 1057.8 | 1066.8 | 1073.4 | 1075.8 | 1074.6 |
| 42.5° | 1122.0 | 1124.4 | 1129.2 | 1133.4 | 1144.2 | 1152.6 | 1162.8 | 1176.0 | 1183.2 | 1186.2 | 1182.0 |
| 45°   | 1237.8 | 1233.6 | 1242.6 | 1253.4 | 1259.4 | 1278.0 | 1294.8 | 1308.6 | 1320.6 | 1325.4 | 1320.6 |
| 47.5° | 1369.8 | 1369.2 | 1380.0 | 1393.2 | 1408.8 | 1426.2 | 1446.0 | 1464.0 | 1485.0 | 1486.2 | 1480.2 |
| 50°   | 1515.6 | 1527.6 | 1533.6 | 1546.8 | 1575.6 | 1597.2 | 1622.4 | 1649.4 | 1668.6 | 1674.6 | 1663.8 |
| 52.5° | 1691.4 | 1700.4 | 1704.0 | 1726.2 | 1752.6 | 1779.0 | 1814.4 | 1846.8 | 1869.0 | 1871.4 | 1866.0 |
| 55°   | 1882.2 | 1889.4 | 1896.0 | 1923.0 | 1951.8 | 1975.2 | 2020.2 | 2052.0 | 2074.2 | 2082.6 | 2079.0 |
| 57.5° | 2079.6 | 2086.2 | 2094.6 | 2124.0 | 2153.4 | 2186.4 | 2229.0 | 2266.2 | 2292.0 | 2307.6 | 2303.4 |
| 60°   | 2298.6 | 2298.6 | 2317.8 | 2347.2 | 2371.2 | 2410.2 | 2454.6 | 2497.8 | 2526.0 | 2550.6 | 2544.0 |
| 62.5° | 2529.0 | 2535.6 | 2554.2 | 2578.2 | 2603.4 | 2639.4 | 2689.8 | 2741.4 | 2784.6 | 2803.2 | 2802.6 |
| 65°   | 2703.6 | 2715.6 | 2740.2 | 2767.8 | 2809.8 | 2852.4 | 2916.0 | 2980.2 | 3032.4 | 3059.4 | 3059.4 |
| 67.5° | 2754.6 | 2762.4 | 2793.0 | 2835.0 | 2895.6 | 2963.4 | 3049.8 | 3139.2 | 3210.6 | 3246.0 | 3223.8 |
| 69°   | 2713.8 | 2725.2 | 2752.2 | 2797.8 | 2869.8 | 2952.6 | 3055.2 | 3156.6 | 3239.4 | 3276.0 | 3250.2 |
| 70°   | 2666.4 | 2679.0 | 2706.0 | 2751.0 | 2825.4 | 2913.6 | 3016.2 | 3125.4 | 3214.2 | 3245.4 | 3216.0 |
| 72.5° | 2473.2 | 2488.8 | 2508.0 | 2547.0 | 2614.2 | 2697.0 | 2789.4 | 2885.4 | 2970.6 | 2995.2 | 2958.6 |
| 75°   | 2143.8 | 2146.8 | 2156.4 | 2185.2 | 2209.2 | 2268.0 | 2346.6 | 2422.8 | 2487.0 | 2501.4 | 2462.4 |
| 77.5° | 1517.4 | 1501.2 | 1485.0 | 1509.6 | 1528.8 | 1604.4 | 1689.6 | 1752.0 | 1819.2 | 1839.6 | 1800.0 |
| 80°   | 665.4  | 659.4  | 682.2  | 714.6  | 799.2  | 849.6  | 933.0  | 1022.4 | 1079.4 | 1146.0 | 1074.6 |
| 82.5° | 131.4  | 138.6  | 160.2  | 198.0  | 244.2  | 307.2  | 361.8  | 423.6  | 479.4  | 504.6  | 478.8  |
| 85°   | 53.4   | 58.2   | 66.0   | 73.8   | 79.2   | 88.8   | 104.4  | 129.6  | 142.8  | 144.6  | 137.4  |
| 87.5° | 22.2   | 25.8   | 34.8   | 41.4   | 42.0   | 40.2   | 41.4   | 42.6   | 34.8   | 28.2   | 35.4   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  | 528.6  |
| 2.5°  | 531.6  | 532.2  | 531.6  | 532.2  | 531.6  | 531.6  | 532.2  | 531.6  |
| 5°    | 544.8  | 545.4  | 544.8  | 544.2  | 543.6  | 544.2  | 544.2  | 544.2  |
| 7.5°  | 563.4  | 562.8  | 562.2  | 562.2  | 561.6  | 561.0  | 562.2  | 562.2  |
| 10°   | 586.2  | 585.6  | 584.4  | 584.4  | 583.8  | 583.8  | 583.8  | 583.8  |
| 12.5° | 613.8  | 612.0  | 611.4  | 609.6  | 609.0  | 608.4  | 608.4  | 609.0  |
| 15°   | 642.6  | 640.8  | 640.2  | 637.2  | 637.2  | 636.6  | 636.6  | 636.6  |
| 17.5° | 673.2  | 671.4  | 669.0  | 669.0  | 667.2  | 666.0  | 666.6  | 665.4  |
| 20°   | 704.4  | 702.0  | 700.8  | 700.2  | 697.8  | 697.8  | 697.8  | 697.2  |
| 22.5° | 735.0  | 733.2  | 731.4  | 729.0  | 726.6  | 726.0  | 726.0  | 725.4  |
| 25°   | 766.2  | 763.2  | 759.6  | 757.2  | 754.8  | 753.0  | 753.0  | 753.0  |
| 27.5° | 797.4  | 793.8  | 788.4  | 785.4  | 781.8  | 780.0  | 780.0  | 779.4  |
| 30°   | 830.4  | 826.2  | 821.4  | 817.2  | 812.4  | 810.6  | 810.0  | 808.8  |
| 32.5° | 870.0  | 865.8  | 861.0  | 855.0  | 850.2  | 847.2  | 847.2  | 845.4  |
| 35°   | 920.4  | 915.6  | 912.0  | 904.2  | 898.2  | 893.4  | 894.0  | 895.2  |
| 37.5° | 986.4  | 980.4  | 977.4  | 967.8  | 960.0  | 955.2  | 955.2  | 954.6  |
| 40°   | 1070.4 | 1064.4 | 1057.8 | 1048.8 | 1039.2 | 1032.6 | 1030.8 | 1030.8 |
| 42.5° | 1177.2 | 1171.8 | 1162.8 | 1150.2 | 1138.8 | 1131.6 | 1125.6 | 1126.2 |
| 45°   | 1311.0 | 1304.4 | 1291.8 | 1276.2 | 1262.4 | 1252.2 | 1243.8 | 1243.8 |
| 47.5° | 1473.6 | 1459.8 | 1442.4 | 1428.6 | 1405.2 | 1389.6 | 1383.6 | 1382.4 |
| 50°   | 1659.0 | 1633.2 | 1611.6 | 1591.8 | 1567.2 | 1551.0 | 1542.0 | 1539.6 |
| 52.5° | 1853.4 | 1826.4 | 1799.4 | 1773.6 | 1743.6 | 1726.8 | 1712.4 | 1711.2 |
| 55°   | 2064.6 | 2030.4 | 1996.2 | 1971.0 | 1935.6 | 1918.2 | 1903.8 | 1895.4 |
| 57.5° | 2280.0 | 2241.6 | 2217.0 | 2181.0 | 2143.8 | 2131.2 | 2117.4 | 2107.2 |
| 60°   | 2522.4 | 2480.4 | 2448.0 | 2410.2 | 2386.2 | 2359.2 | 2346.0 | 2338.2 |
| 62.5° | 2770.2 | 2731.2 | 2689.8 | 2653.8 | 2620.2 | 2601.6 | 2583.6 | 2574.6 |
| 65°   | 3022.2 | 2958.0 | 2908.8 | 2859.0 | 2819.4 | 2785.8 | 2757.6 | 2754.0 |
| 67.5° | 3177.0 | 3096.0 | 3013.8 | 2941.2 | 2883.0 | 2835.6 | 2806.8 | 2796.6 |
| 69°   | 3189.6 | 3101.4 | 2998.8 | 2911.8 | 2844.6 | 2799.0 | 2764.8 | 2754.0 |
| 70°   | 3154.8 | 3066.0 | 2958.0 | 2864.4 | 2794.8 | 2745.0 | 2716.8 | 2698.8 |
| 72.5° | 2900.4 | 2822.4 | 2718.6 | 2626.2 | 2563.2 | 2505.0 | 2476.8 | 2469.6 |
| 75°   | 2392.8 | 2310.0 | 2214.6 | 2170.2 | 2126.4 | 2089.8 | 2070.6 | 2068.8 |
| 77.5° | 1699.2 | 1614.6 | 1542.0 | 1483.8 | 1436.4 | 1413.0 | 1418.4 | 1398.6 |
| 80°   | 972.6  | 862.2  | 774.6  | 723.0  | 652.8  | 610.8  | 563.4  | 597.6  |
| 82.5° | 418.2  | 337.8  | 257.4  | 209.4  | 159.6  | 126.6  | 104.4  | 97.2   |
| 85°   | 117.0  | 95.4   | 79.8   | 73.2   | 66.0   | 58.8   | 49.8   | 46.2   |
| 87.5° | 39.6   | 37.8   | 33.6   | 33.6   | 30.6   | 25.8   | 18.0   | 16.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)