

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: P155841

Luminaire Tested: **AVS-E04-LED-E-U-T3-7050**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P155841  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-E04-LED-E-U-T3-7050  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA  
Light Source: (84) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12657.7 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

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



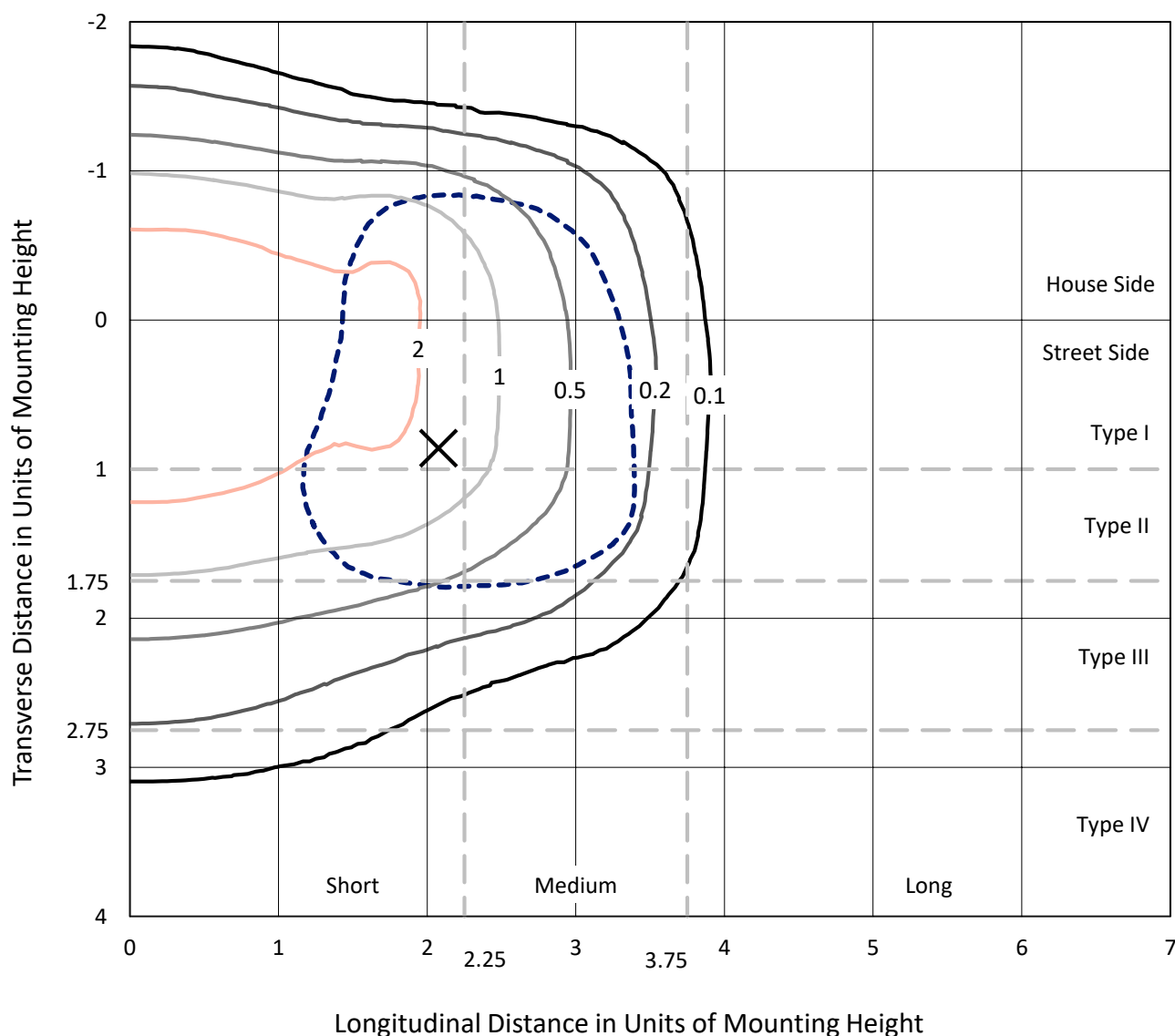
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

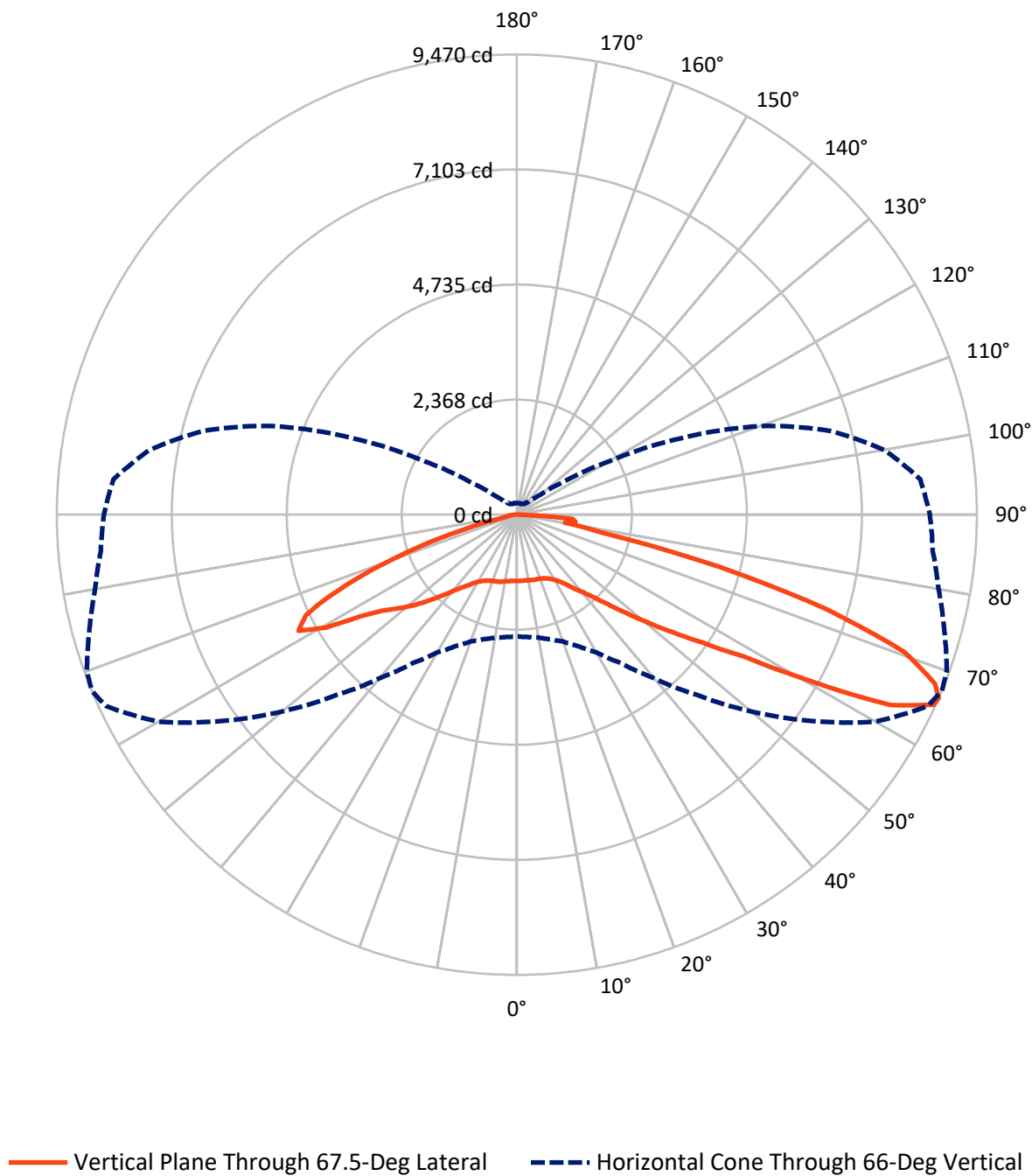


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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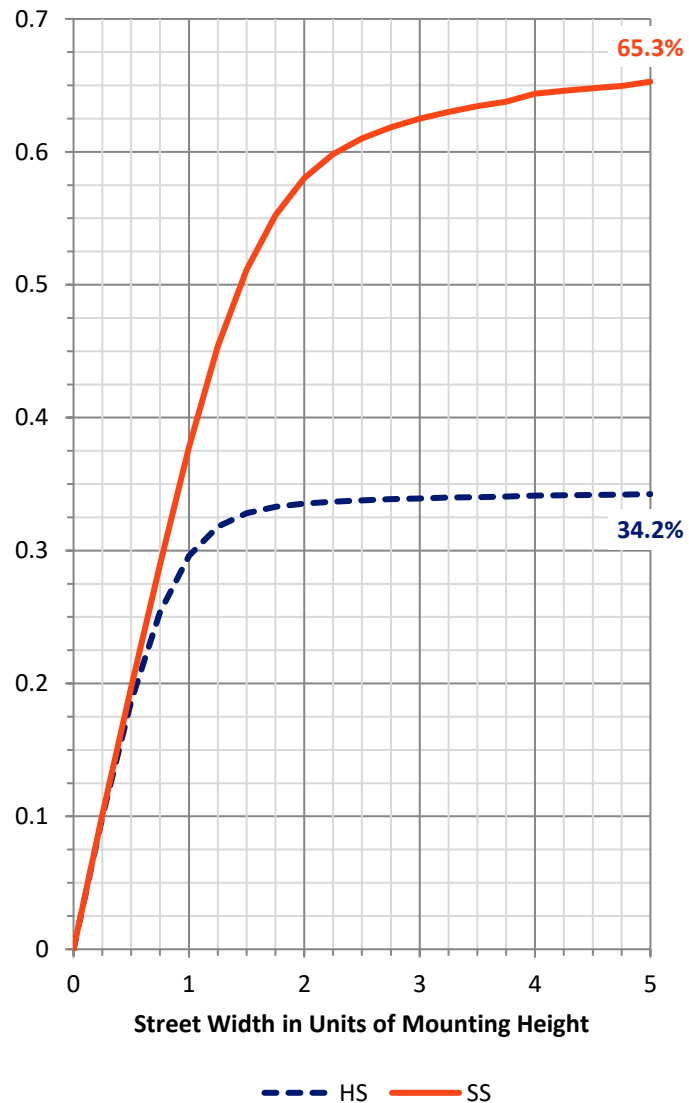
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4371.1   | 0.0    | 4371.1  |
|                    | % Fixture | 34.5     | 0.0    | 34.5    |
| <b>Street Side</b> | Lumens    | 8286.6   | 0.0    | 8286.6  |
|                    | % Fixture | 65.5     | 0.0    | 65.5    |
| <b>Total</b>       | Lumens    | 12657.7  | 0.0    | 12657.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 130.7   | 1.0       |
| 10°-20°   | 385.6   | 3.0       |
| 20°-30°   | 662.7   | 5.2       |
| 30°-40°   | 1076.0  | 8.5       |
| 40°-50°   | 1796.3  | 14.2      |
| 50°-60°   | 2828.6  | 22.3      |
| 60°-70°   | 3857.1  | 30.5      |
| 70°-80°   | 1669.7  | 13.2      |
| 80°-90°   | 251.1   | 2.0       |
| 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°    | 12657.7 | 100.0     |
| 0°-180°   | 12657.7 | 100.0     |

**Coefficient of Utilization**



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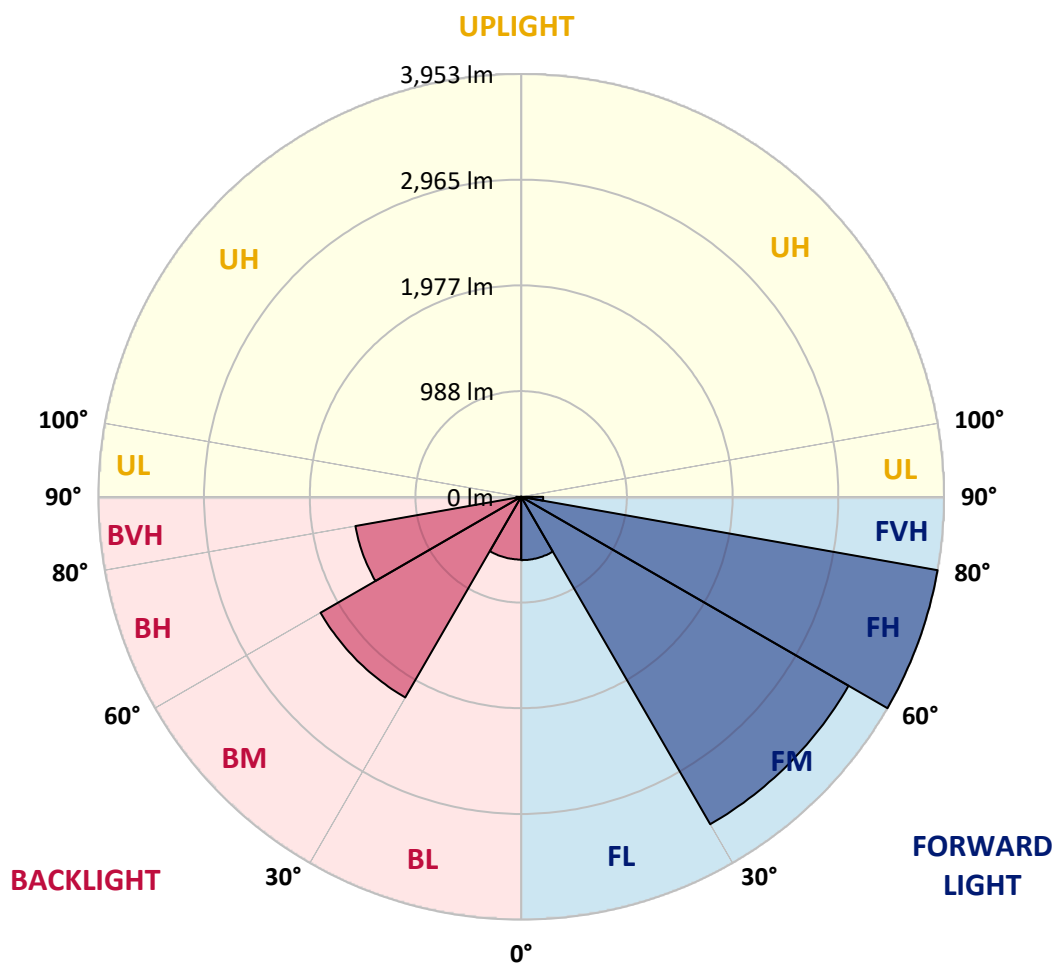
CATALOG NUMBER: AVS-E04-LED-E-U-T3-7050

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 592.1  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 3534.9 | 27.9      |                         |      |         |
| FH   | (60°-80°)   | 3953.4 | 31.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 206.1  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 586.7  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2166.1 | 17.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1573.4 | 12.4      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 44.9   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 |
| 2.5°  | 1369.5 | 1375.0 | 1369.5 | 1370.9 | 1372.2 | 1370.9 | 1369.5 | 1369.5 | 1365.4 | 1368.2 | 1370.9 |
| 5°    | 1364.0 | 1368.2 | 1366.7 | 1368.2 | 1369.5 | 1368.2 | 1366.7 | 1368.2 | 1365.4 | 1366.7 | 1370.9 |
| 7.5°  | 1357.2 | 1355.9 | 1357.2 | 1359.9 | 1362.7 | 1362.7 | 1362.7 | 1364.0 | 1362.7 | 1362.7 | 1366.7 |
| 10°   | 1336.7 | 1338.0 | 1340.8 | 1344.9 | 1346.2 | 1350.4 | 1350.4 | 1354.5 | 1355.9 | 1358.5 | 1364.0 |
| 12.5° | 1310.7 | 1312.0 | 1314.8 | 1317.5 | 1324.4 | 1331.2 | 1331.2 | 1340.8 | 1344.9 | 1351.7 | 1361.3 |
| 15°   | 1291.5 | 1292.8 | 1295.6 | 1298.3 | 1303.8 | 1310.7 | 1314.8 | 1325.7 | 1332.5 | 1344.9 | 1358.5 |
| 17.5° | 1302.5 | 1301.1 | 1303.8 | 1305.2 | 1305.2 | 1310.7 | 1310.7 | 1318.9 | 1327.0 | 1338.0 | 1355.9 |
| 20°   | 1333.9 | 1333.9 | 1336.7 | 1336.7 | 1335.3 | 1338.0 | 1332.5 | 1332.5 | 1333.9 | 1339.4 | 1351.7 |
| 22.5° | 1365.4 | 1364.0 | 1369.5 | 1372.2 | 1373.6 | 1377.7 | 1372.2 | 1370.9 | 1364.0 | 1359.9 | 1364.0 |
| 25°   | 1395.5 | 1394.1 | 1400.9 | 1405.1 | 1411.9 | 1416.1 | 1416.1 | 1416.1 | 1410.6 | 1403.7 | 1399.6 |
| 27.5° | 1442.0 | 1442.0 | 1448.9 | 1453.0 | 1458.4 | 1466.6 | 1470.8 | 1470.8 | 1472.1 | 1462.6 | 1455.8 |
| 30°   | 1520.0 | 1521.3 | 1522.7 | 1528.2 | 1533.7 | 1536.4 | 1541.9 | 1546.0 | 1550.1 | 1544.7 | 1533.7 |
| 32.5° | 1613.1 | 1604.9 | 1604.9 | 1613.1 | 1619.9 | 1628.1 | 1630.8 | 1636.3 | 1644.5 | 1640.4 | 1639.1 |
| 35°   | 1723.8 | 1721.1 | 1718.3 | 1721.1 | 1729.3 | 1738.9 | 1749.8 | 1759.4 | 1754.0 | 1762.2 | 1758.0 |
| 37.5° | 1888.1 | 1890.8 | 1892.1 | 1892.1 | 1890.8 | 1893.5 | 1899.0 | 1908.6 | 1905.8 | 1908.6 | 1914.0 |
| 40°   | 2159.0 | 2149.3 | 2139.8 | 2141.1 | 2127.5 | 2130.2 | 2108.3 | 2117.9 | 2119.3 | 2109.6 | 2113.8 |
| 42.5° | 2429.8 | 2435.3 | 2439.4 | 2450.4 | 2440.7 | 2435.3 | 2414.8 | 2414.8 | 2403.8 | 2394.2 | 2391.5 |
| 45°   | 2722.6 | 2733.6 | 2734.9 | 2756.8 | 2748.6 | 2766.4 | 2781.5 | 2777.3 | 2759.6 | 2758.1 | 2739.1 |
| 47.5° | 2956.6 | 2974.3 | 2993.5 | 3019.5 | 3040.0 | 3079.7 | 3126.2 | 3149.4 | 3163.1 | 3174.1 | 3152.2 |
| 50°   | 3131.7 | 3139.9 | 3189.1 | 3230.2 | 3275.3 | 3341.0 | 3405.3 | 3488.8 | 3555.8 | 3587.3 | 3617.4 |
| 52.5° | 3226.1 | 3246.6 | 3300.0 | 3364.2 | 3443.6 | 3542.1 | 3646.1 | 3778.8 | 3893.7 | 3970.4 | 4038.8 |
| 55°   | 3246.6 | 3267.2 | 3327.4 | 3409.4 | 3517.5 | 3650.2 | 3799.3 | 3979.9 | 4152.3 | 4300.1 | 4443.7 |
| 57.5° | 3189.1 | 3212.4 | 3276.7 | 3371.1 | 3498.3 | 3659.8 | 3847.3 | 4083.9 | 4322.0 | 4561.3 | 4773.5 |
| 60°   | 3083.8 | 3112.5 | 3171.4 | 3264.4 | 3405.3 | 3587.3 | 3811.6 | 4108.5 | 4442.4 | 4809.0 | 5215.3 |
| 62.5° | 2910.1 | 2940.1 | 2994.8 | 3097.5 | 3242.5 | 3443.6 | 3703.5 | 4073.0 | 4545.0 | 5122.3 | 5843.3 |
| 65°   | 2631.0 | 2644.7 | 2711.6 | 2815.6 | 2944.2 | 3165.9 | 3451.8 | 3897.8 | 4512.1 | 5315.2 | 6308.5 |
| 66°   | 2505.1 | 2528.3 | 2569.3 | 2652.8 | 2776.0 | 2983.9 | 3271.2 | 3724.0 | 4387.7 | 5248.2 | 6296.2 |
| 67.5° | 2308.1 | 2325.8 | 2353.2 | 2409.3 | 2484.6 | 2637.8 | 2910.1 | 3338.2 | 4007.3 | 4908.9 | 6034.8 |
| 70°   | 1866.1 | 1874.4 | 1911.3 | 1930.5 | 1956.5 | 2007.0 | 2105.6 | 2351.8 | 2873.1 | 3720.0 | 4870.6 |
| 72.5° | 1272.3 | 1295.6 | 1335.3 | 1390.1 | 1461.1 | 1529.5 | 1576.1 | 1607.6 | 1719.8 | 2219.2 | 3245.2 |
| 75°   | 933.1  | 957.7  | 1008.3 | 1080.8 | 1205.3 | 1347.7 | 1495.3 | 1563.8 | 1517.3 | 1453.0 | 1807.4 |
| 77.5° | 541.8  | 574.6  | 617.0  | 686.8  | 801.8  | 990.6  | 1243.6 | 1468.0 | 1619.9 | 1629.4 | 1547.4 |
| 80°   | 228.5  | 232.5  | 258.5  | 294.2  | 365.3  | 498.0  | 695.0  | 1017.9 | 1354.5 | 1581.6 | 1634.9 |
| 82.5° | 52.0   | 64.4   | 82.1   | 97.1   | 119.1  | 164.1  | 243.5  | 405.0  | 731.9  | 1147.9 | 1496.8 |
| 85°   | 19.2   | 19.2   | 26.0   | 38.3   | 43.7   | 49.2   | 64.4   | 102.6  | 175.1  | 322.9  | 673.2  |
| 87.5° | 0.0    | 1.3    | 2.7    | 2.7    | 5.5    | 6.8    | 11.0   | 15.0   | 13.7   | 12.3   | 41.0   |
| 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):**

|       | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 |
| 2.5°  | 1368.2 | 1366.7 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1361.3 | 1362.7 | 1359.9 | 1361.3 | 1361.3 |
| 5°    | 1366.7 | 1366.7 | 1365.4 | 1362.7 | 1364.0 | 1364.0 | 1365.4 | 1362.7 | 1362.7 | 1364.0 | 1362.7 |
| 7.5°  | 1366.7 | 1365.4 | 1365.4 | 1365.4 | 1366.7 | 1365.4 | 1366.7 | 1366.7 | 1366.7 | 1368.2 | 1368.2 |
| 10°   | 1366.7 | 1366.7 | 1369.5 | 1370.9 | 1370.9 | 1372.2 | 1376.4 | 1376.4 | 1377.7 | 1379.1 | 1381.9 |
| 12.5° | 1368.2 | 1373.6 | 1377.7 | 1381.9 | 1383.2 | 1385.9 | 1392.7 | 1392.7 | 1395.5 | 1399.6 | 1400.9 |
| 15°   | 1369.5 | 1377.7 | 1385.9 | 1388.7 | 1391.4 | 1396.9 | 1403.7 | 1406.4 | 1410.6 | 1414.6 | 1417.4 |
| 17.5° | 1368.2 | 1379.1 | 1388.7 | 1392.7 | 1396.9 | 1403.7 | 1411.9 | 1414.6 | 1420.1 | 1425.6 | 1431.1 |
| 20°   | 1366.7 | 1381.9 | 1396.9 | 1402.4 | 1407.8 | 1417.4 | 1428.3 | 1435.1 | 1440.6 | 1448.9 | 1454.3 |
| 22.5° | 1375.0 | 1392.7 | 1413.3 | 1421.5 | 1431.1 | 1443.4 | 1458.4 | 1466.6 | 1473.5 | 1481.7 | 1485.8 |
| 25°   | 1400.9 | 1414.6 | 1439.3 | 1453.0 | 1465.3 | 1485.8 | 1506.3 | 1515.9 | 1524.1 | 1531.0 | 1532.3 |
| 27.5° | 1444.8 | 1448.9 | 1479.0 | 1496.8 | 1514.5 | 1547.4 | 1572.0 | 1578.9 | 1593.9 | 1599.4 | 1598.0 |
| 30°   | 1515.9 | 1509.0 | 1533.7 | 1561.0 | 1587.0 | 1632.2 | 1662.3 | 1680.1 | 1693.8 | 1693.8 | 1682.8 |
| 32.5° | 1618.5 | 1607.6 | 1614.4 | 1645.9 | 1676.0 | 1741.7 | 1777.2 | 1800.5 | 1810.1 | 1807.4 | 1784.0 |
| 35°   | 1752.5 | 1745.7 | 1741.7 | 1766.3 | 1814.2 | 1890.8 | 1937.3 | 1949.6 | 1964.7 | 1961.9 | 1931.8 |
| 37.5° | 1911.3 | 1905.8 | 1905.8 | 1934.5 | 1981.0 | 2094.6 | 2145.3 | 2153.5 | 2152.1 | 2130.2 | 2074.1 |
| 40°   | 2098.8 | 2096.0 | 2083.6 | 2100.1 | 2139.8 | 2287.6 | 2356.0 | 2366.8 | 2351.8 | 2316.3 | 2250.6 |
| 42.5° | 2368.3 | 2351.8 | 2313.6 | 2323.1 | 2353.2 | 2496.9 | 2585.8 | 2615.9 | 2600.8 | 2565.3 | 2458.5 |
| 45°   | 2719.9 | 2702.1 | 2637.8 | 2629.5 | 2646.0 | 2771.8 | 2886.7 | 2893.6 | 2890.9 | 2845.7 | 2719.9 |
| 47.5° | 3133.1 | 3105.7 | 3037.3 | 3015.3 | 3009.9 | 3126.2 | 3237.0 | 3248.0 | 3241.1 | 3174.1 | 3005.8 |
| 50°   | 3580.4 | 3540.7 | 3495.6 | 3480.5 | 3458.7 | 3542.1 | 3654.3 | 3655.6 | 3628.3 | 3535.2 | 3377.9 |
| 52.5° | 4057.9 | 4044.2 | 4036.1 | 4020.9 | 4011.4 | 4083.9 | 4152.3 | 4111.3 | 4070.3 | 3973.1 | 3836.3 |
| 55°   | 4539.5 | 4595.5 | 4653.1 | 4658.5 | 4674.9 | 4753.0 | 4751.5 | 4639.4 | 4609.2 | 4556.0 | 4420.4 |
| 57.5° | 5051.2 | 5259.2 | 5439.7 | 5495.9 | 5550.6 | 5695.5 | 5681.9 | 5571.1 | 5532.7 | 5467.0 | 5354.9 |
| 60°   | 5747.6 | 6308.5 | 6829.7 | 6954.3 | 7040.4 | 7214.2 | 7197.8 | 7026.7 | 7106.1 | 7100.6 | 6955.6 |
| 62.5° | 6723.0 | 7656.2 | 8437.3 | 8628.9 | 8689.0 | 8708.2 | 8604.2 | 8419.6 | 8497.5 | 8585.1 | 8139.1 |
| 65°   | 7383.8 | 8481.1 | 9282.8 | 9430.6 | 9438.8 | 9210.4 | 8979.1 | 8761.6 | 8742.4 | 8667.2 | 8029.6 |
| 66°   | 7398.9 | 8522.2 | 9326.6 | 9470.3 | 9419.7 | 9107.7 | 8814.9 | 8596.1 | 8501.7 | 8336.1 | 7675.2 |
| 67.5° | 7133.5 | 8266.3 | 9132.3 | 9284.2 | 9173.4 | 8731.5 | 8327.9 | 8046.0 | 7861.3 | 7593.2 | 7010.4 |
| 70°   | 5991.1 | 7114.3 | 8181.5 | 8464.7 | 8500.2 | 7840.8 | 7281.2 | 6950.2 | 6701.1 | 6333.2 | 5831.0 |
| 72.5° | 4454.7 | 5469.8 | 6411.1 | 6682.0 | 6820.2 | 6293.5 | 5821.5 | 5569.7 | 5229.0 | 4841.9 | 4484.8 |
| 75°   | 2792.3 | 3509.3 | 4140.0 | 4330.2 | 4200.2 | 3792.4 | 3509.3 | 3403.9 | 3068.7 | 2837.5 | 2674.7 |
| 77.5° | 1596.6 | 1821.0 | 1871.6 | 1799.1 | 1645.9 | 1260.1 | 896.2  | 663.5  | 576.0  | 637.5  | 703.2  |
| 80°   | 1558.3 | 1428.3 | 1138.3 | 1001.5 | 907.0  | 623.8  | 366.6  | 251.7  | 209.3  | 214.8  | 232.5  |
| 82.5° | 1688.3 | 1811.4 | 1491.3 | 1216.3 | 1020.6 | 689.5  | 380.3  | 202.5  | 136.8  | 161.5  | 182.0  |
| 85°   | 1097.2 | 1526.8 | 1375.0 | 1158.9 | 938.5  | 589.6  | 313.3  | 105.4  | 69.7   | 91.7   | 125.9  |
| 87.5° | 110.8  | 121.8  | 103.9  | 140.9  | 105.4  | 49.2   | 24.7   | 15.0   | 13.7   | 16.4   | 24.7   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 |
| 2.5°  | 1362.7 | 1362.7 | 1364.0 | 1365.4 | 1366.7 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1370.9 | 1369.5 |
| 5°    | 1365.4 | 1368.2 | 1370.9 | 1372.2 | 1375.0 | 1375.0 | 1379.1 | 1377.7 | 1377.7 | 1381.9 | 1383.2 |
| 7.5°  | 1370.9 | 1375.0 | 1380.4 | 1379.1 | 1384.6 | 1383.2 | 1385.9 | 1385.9 | 1381.9 | 1383.2 | 1380.4 |
| 10°   | 1383.2 | 1388.7 | 1391.4 | 1387.3 | 1388.7 | 1383.2 | 1381.9 | 1375.0 | 1366.7 | 1362.7 | 1357.2 |
| 12.5° | 1403.7 | 1409.2 | 1409.2 | 1402.4 | 1394.1 | 1381.9 | 1372.2 | 1357.2 | 1344.9 | 1338.0 | 1331.2 |
| 15°   | 1421.5 | 1426.9 | 1425.6 | 1414.6 | 1402.4 | 1383.2 | 1369.5 | 1351.7 | 1333.9 | 1323.0 | 1316.2 |
| 17.5° | 1435.1 | 1437.9 | 1433.8 | 1418.8 | 1405.1 | 1387.3 | 1373.6 | 1354.5 | 1333.9 | 1320.2 | 1308.0 |
| 20°   | 1455.8 | 1453.0 | 1443.4 | 1424.2 | 1409.2 | 1392.7 | 1381.9 | 1365.4 | 1342.2 | 1324.4 | 1306.5 |
| 22.5° | 1485.8 | 1474.8 | 1457.1 | 1436.6 | 1421.5 | 1406.4 | 1395.5 | 1377.7 | 1354.5 | 1332.5 | 1312.0 |
| 25°   | 1525.5 | 1503.6 | 1479.0 | 1457.1 | 1443.4 | 1426.9 | 1414.6 | 1395.5 | 1370.9 | 1346.2 | 1321.7 |
| 27.5° | 1582.9 | 1544.7 | 1513.2 | 1494.0 | 1479.0 | 1458.4 | 1443.4 | 1418.8 | 1392.7 | 1364.0 | 1336.7 |
| 30°   | 1647.3 | 1595.2 | 1565.2 | 1550.1 | 1533.7 | 1511.8 | 1488.5 | 1457.1 | 1426.9 | 1395.5 | 1362.7 |
| 32.5° | 1730.7 | 1667.8 | 1639.1 | 1623.9 | 1602.1 | 1574.7 | 1547.4 | 1511.8 | 1469.4 | 1428.3 | 1388.7 |
| 35°   | 1840.1 | 1775.9 | 1745.7 | 1722.5 | 1692.4 | 1656.8 | 1617.1 | 1569.2 | 1511.8 | 1457.1 | 1406.4 |
| 37.5° | 1957.8 | 1888.1 | 1859.3 | 1834.7 | 1789.5 | 1743.0 | 1686.9 | 1617.1 | 1539.2 | 1466.6 | 1403.7 |
| 40°   | 2106.9 | 2042.6 | 2005.7 | 1963.3 | 1909.9 | 1829.2 | 1741.7 | 1640.4 | 1540.5 | 1451.6 | 1377.7 |
| 42.5° | 2295.8 | 2231.4 | 2176.7 | 2109.6 | 2016.7 | 1892.1 | 1767.7 | 1636.3 | 1515.9 | 1414.6 | 1335.3 |
| 45°   | 2546.1 | 2468.1 | 2373.7 | 2256.1 | 2105.6 | 1931.8 | 1769.0 | 1610.3 | 1469.4 | 1357.2 | 1272.3 |
| 47.5° | 2852.5 | 2733.6 | 2579.0 | 2380.5 | 2164.4 | 1942.8 | 1747.2 | 1558.3 | 1396.9 | 1275.1 | 1180.7 |
| 50°   | 3216.5 | 3029.0 | 2774.6 | 2483.2 | 2194.5 | 1926.3 | 1692.4 | 1480.3 | 1294.3 | 1164.2 | 1052.1 |
| 52.5° | 3632.4 | 3325.9 | 2951.1 | 2557.1 | 2193.2 | 1871.6 | 1599.4 | 1362.7 | 1160.2 | 1015.1 | 908.4  |
| 55°   | 4120.8 | 3665.3 | 3133.1 | 2611.8 | 2154.8 | 1770.4 | 1457.1 | 1197.1 | 994.6  | 860.5  | 762.1  |
| 57.5° | 4836.4 | 4215.2 | 3450.5 | 2696.6 | 2078.2 | 1614.4 | 1264.1 | 998.8  | 820.9  | 693.7  | 610.2  |
| 60°   | 6144.4 | 5133.3 | 4022.4 | 2867.7 | 1960.5 | 1385.9 | 1038.4 | 786.6  | 637.5  | 534.9  | 478.9  |
| 62.5° | 7129.4 | 5843.3 | 4331.5 | 2829.3 | 1723.8 | 1104.0 | 770.3  | 573.3  | 469.2  | 399.5  | 363.9  |
| 65°   | 6988.5 | 5623.1 | 4001.8 | 2436.7 | 1351.7 | 778.4  | 511.7  | 389.9  | 322.9  | 290.1  | 269.5  |
| 66°   | 6669.6 | 5335.8 | 3715.9 | 2193.2 | 1168.4 | 647.2  | 421.3  | 326.9  | 277.7  | 254.5  | 240.8  |
| 67.5° | 6065.0 | 4802.2 | 3204.1 | 1797.7 | 897.5  | 469.2  | 317.4  | 258.5  | 225.7  | 216.2  | 206.6  |
| 70°   | 5041.6 | 3829.4 | 2249.2 | 1046.6 | 458.3  | 261.3  | 201.1  | 180.6  | 172.4  | 171.0  | 168.3  |
| 72.5° | 3863.6 | 2710.3 | 1324.4 | 495.2  | 238.0  | 173.8  | 156.0  | 149.1  | 146.4  | 146.4  | 147.8  |
| 75°   | 2368.3 | 1522.7 | 585.6  | 242.2  | 166.9  | 146.4  | 138.1  | 135.4  | 134.1  | 135.4  | 134.1  |
| 77.5° | 790.8  | 484.4  | 250.4  | 183.3  | 151.8  | 135.4  | 129.9  | 127.3  | 127.3  | 127.3  | 127.3  |
| 80°   | 242.2  | 210.7  | 191.5  | 169.6  | 143.6  | 128.6  | 120.4  | 119.1  | 120.4  | 121.8  | 117.6  |
| 82.5° | 182.0  | 172.4  | 161.5  | 150.5  | 129.9  | 114.9  | 112.2  | 112.2  | 112.2  | 108.1  | 102.6  |
| 85°   | 134.1  | 132.7  | 109.4  | 102.6  | 95.8   | 95.8   | 95.8   | 95.8   | 91.7   | 84.9   | 79.4   |
| 87.5° | 24.7   | 23.2   | 24.7   | 26.0   | 38.3   | 41.0   | 41.0   | 43.7   | 47.9   | 45.2   | 45.2   |
| 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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|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1364.0 | 1364.0 | 1364.0 | 1364.0 | 1364.0 |
| 2.5°  | 1369.5 | 1368.2 | 1372.2 | 1369.5 | 1370.9 |
| 5°    | 1381.9 | 1380.4 | 1383.2 | 1380.4 | 1384.6 |
| 7.5°  | 1377.7 | 1375.0 | 1373.6 | 1375.0 | 1376.4 |
| 10°   | 1349.0 | 1346.2 | 1344.9 | 1343.5 | 1344.9 |
| 12.5° | 1324.4 | 1318.9 | 1318.9 | 1316.2 | 1317.5 |
| 15°   | 1306.5 | 1302.5 | 1301.1 | 1298.3 | 1299.7 |
| 17.5° | 1298.3 | 1291.5 | 1288.8 | 1286.0 | 1286.0 |
| 20°   | 1292.8 | 1284.7 | 1280.6 | 1277.8 | 1276.5 |
| 22.5° | 1292.8 | 1280.6 | 1275.1 | 1272.3 | 1271.0 |
| 25°   | 1298.3 | 1283.3 | 1275.1 | 1271.0 | 1269.6 |
| 27.5° | 1309.3 | 1290.2 | 1280.6 | 1275.1 | 1275.1 |
| 30°   | 1328.5 | 1303.8 | 1290.2 | 1283.3 | 1282.0 |
| 32.5° | 1347.7 | 1314.8 | 1295.6 | 1287.5 | 1284.7 |
| 35°   | 1357.2 | 1314.8 | 1291.5 | 1277.8 | 1275.1 |
| 37.5° | 1346.2 | 1297.0 | 1268.3 | 1247.8 | 1243.6 |
| 40°   | 1312.0 | 1260.1 | 1228.6 | 1209.4 | 1206.7 |
| 42.5° | 1266.9 | 1216.3 | 1179.4 | 1165.7 | 1161.6 |
| 45°   | 1205.3 | 1145.2 | 1108.2 | 1089.0 | 1090.4 |
| 47.5° | 1100.0 | 1038.4 | 1005.6 | 987.8  | 990.6  |
| 50°   | 975.4  | 915.3  | 886.5  | 867.4  | 871.5  |
| 52.5° | 838.7  | 783.9  | 756.6  | 747.0  | 744.2  |
| 55°   | 695.0  | 652.6  | 633.5  | 622.5  | 618.4  |
| 57.5° | 563.6  | 533.6  | 519.9  | 506.2  | 507.6  |
| 60°   | 444.7  | 429.6  | 425.5  | 410.5  | 409.1  |
| 62.5° | 350.3  | 340.6  | 336.6  | 325.6  | 326.9  |
| 65°   | 265.4  | 262.7  | 265.4  | 258.5  | 261.3  |
| 66°   | 239.4  | 240.8  | 240.8  | 236.7  | 239.4  |
| 67.5° | 206.6  | 209.3  | 213.5  | 209.3  | 212.0  |
| 70°   | 171.0  | 173.8  | 176.5  | 176.5  | 176.5  |
| 72.5° | 149.1  | 151.8  | 153.3  | 153.3  | 153.3  |
| 75°   | 136.8  | 138.1  | 139.6  | 136.8  | 136.8  |
| 77.5° | 128.6  | 128.6  | 125.9  | 124.5  | 123.1  |
| 80°   | 116.3  | 114.9  | 110.8  | 108.1  | 108.1  |
| 82.5° | 97.1   | 94.4   | 91.7   | 87.6   | 87.6   |
| 85°   | 73.9   | 71.2   | 68.4   | 62.9   | 60.2   |
| 87.5° | 38.3   | 39.7   | 38.3   | 31.5   | 27.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)