

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: P200386

Luminaire Tested: **GAP-AF-02-LED-U-5MQ-7060-1200**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-02-LED-U-5MQ-7060-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14315 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 129  
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



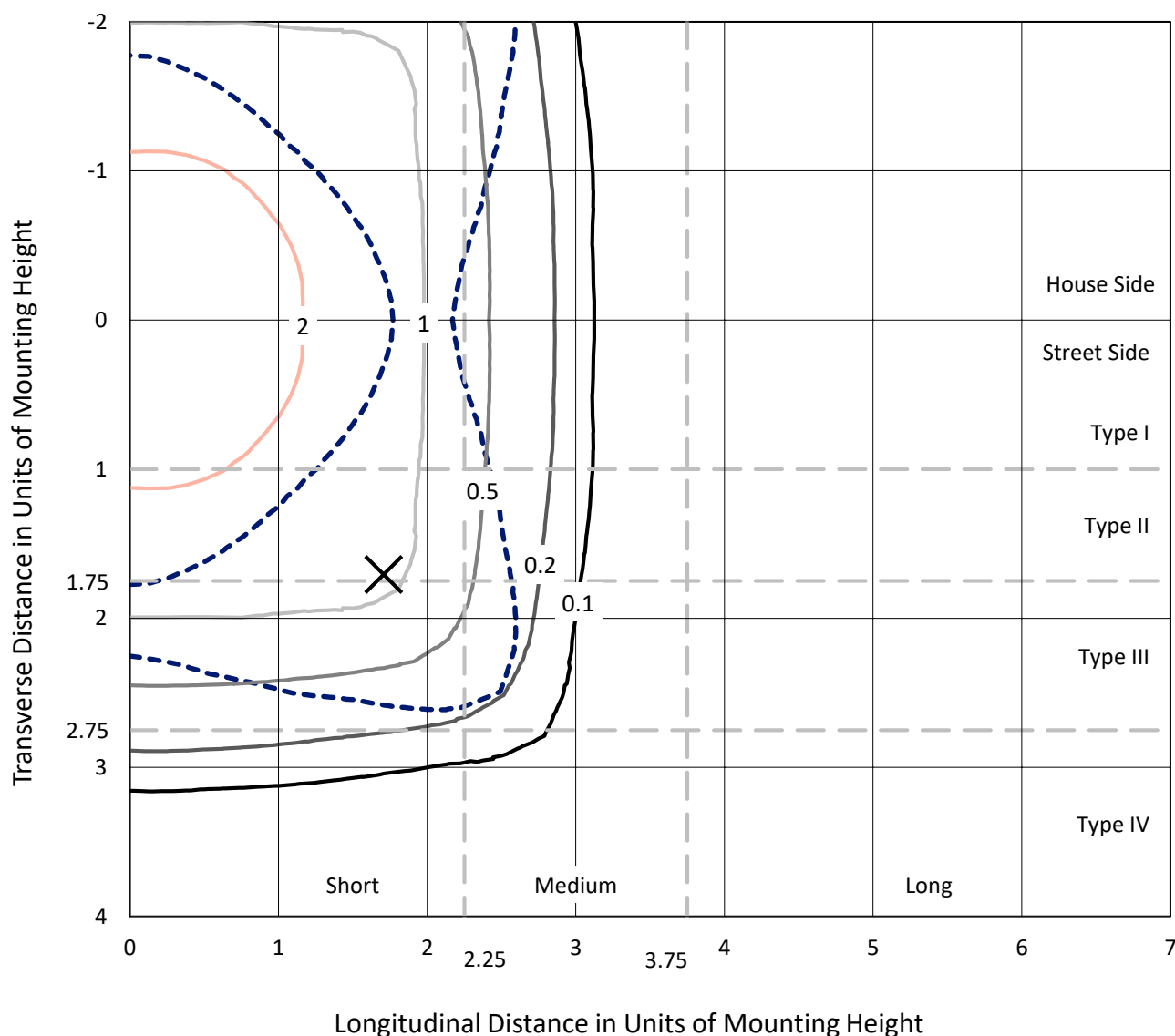
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

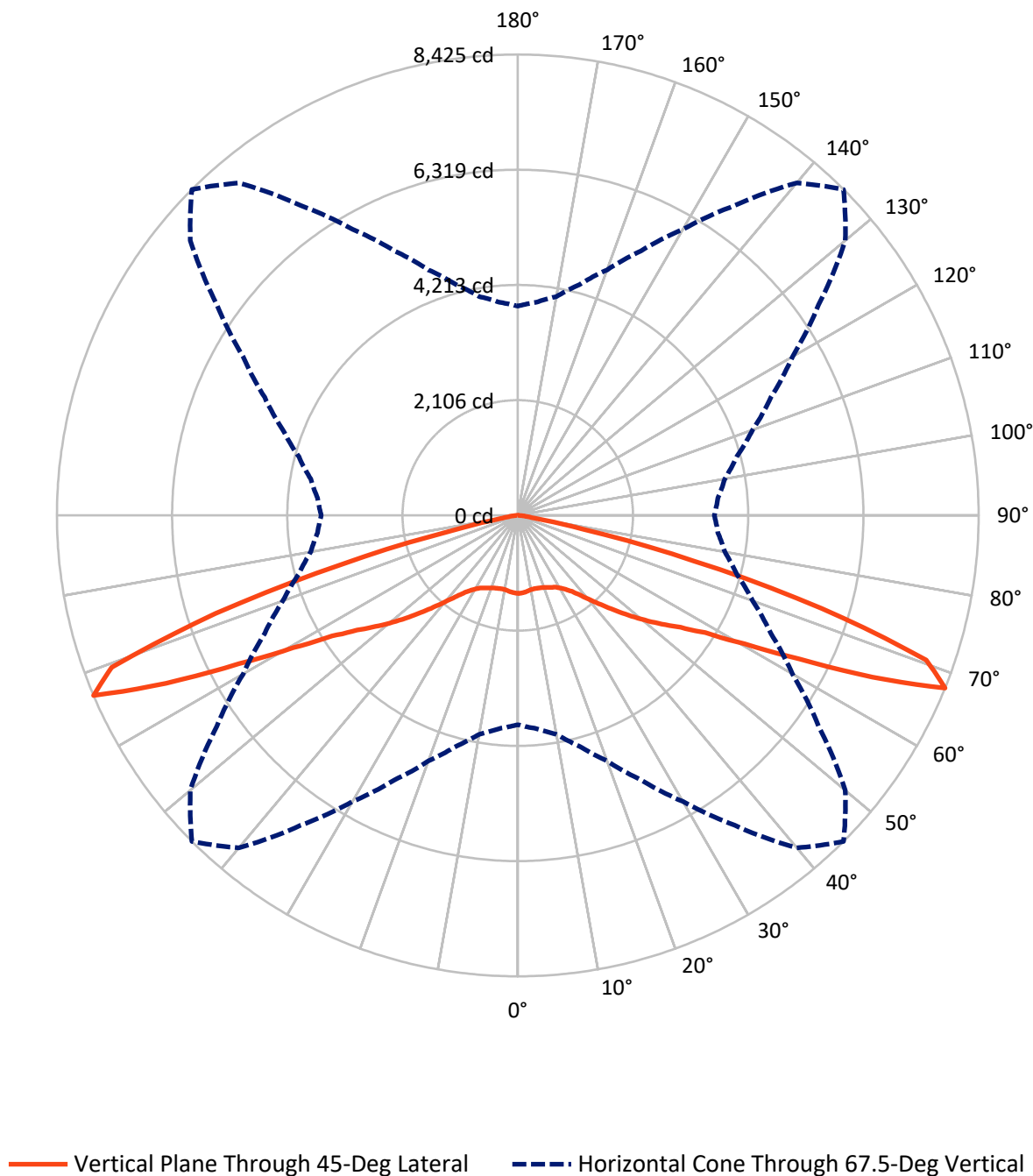


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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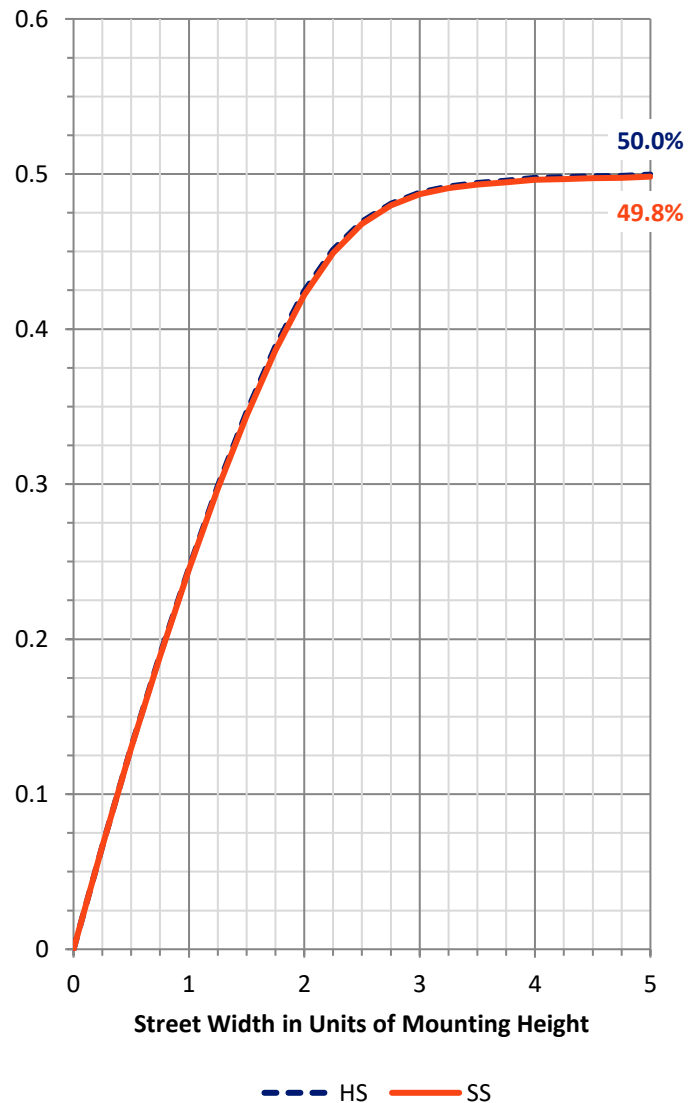
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7157.5   | 0.0    | 7157.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7157.5   | 0.0    | 7157.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14315.0  | 0.0    | 14315.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 133.5   | 0.9       |
| 10°-20°   | 387.4   | 2.7       |
| 20°-30°   | 658.6   | 4.6       |
| 30°-40°   | 1076.7  | 7.5       |
| 40°-50°   | 1922.1  | 13.4      |
| 50°-60°   | 3240.7  | 22.6      |
| 60°-70°   | 5029.1  | 35.1      |
| 70°-80°   | 1767.0  | 12.3      |
| 80°-90°   | 99.9    | 0.7       |
| 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°    | 14315.0 | 100.0     |
| 0°-180°   | 14315.0 | 100.0     |

**Coefficient of Utilization**



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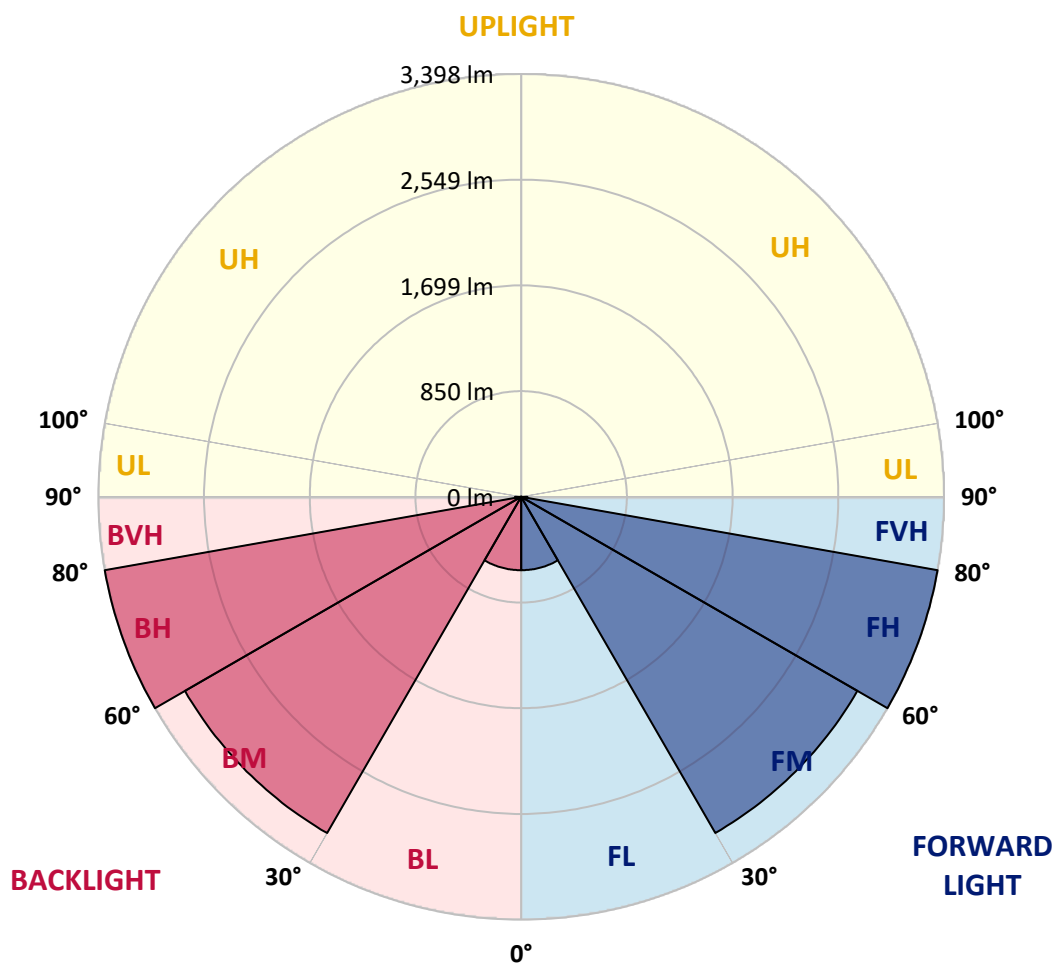
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 589.8  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 3119.7 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 3398.0 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 49.9   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 589.8  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3119.7 | 21.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3398.0 | 23.7      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 49.9   | 0.3       |                         |      | G1/100  |
| 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°    | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 |
| 2.5°  | 1421.3 | 1422.6 | 1422.6 | 1422.6 | 1421.9 | 1421.9 | 1420.6 | 1421.9 | 1421.3 | 1419.3 | 1420.0 |
| 5°    | 1409.4 | 1410.8 | 1410.8 | 1410.1 | 1412.1 | 1411.4 | 1409.4 | 1410.8 | 1410.1 | 1408.8 | 1409.4 |
| 7.5°  | 1392.3 | 1394.3 | 1394.3 | 1393.6 | 1395.6 | 1395.0 | 1393.6 | 1394.3 | 1394.3 | 1392.3 | 1392.3 |
| 10°   | 1373.2 | 1374.5 | 1374.5 | 1373.9 | 1377.2 | 1377.2 | 1376.5 | 1378.5 | 1379.2 | 1377.2 | 1375.9 |
| 12.5° | 1355.5 | 1357.4 | 1357.4 | 1360.1 | 1363.4 | 1364.7 | 1368.0 | 1370.6 | 1373.2 | 1372.6 | 1369.9 |
| 15°   | 1344.9 | 1346.2 | 1348.9 | 1352.2 | 1357.4 | 1362.0 | 1367.3 | 1373.2 | 1378.5 | 1379.8 | 1375.9 |
| 17.5° | 1338.3 | 1340.3 | 1344.3 | 1348.9 | 1356.1 | 1364.0 | 1371.9 | 1379.8 | 1387.1 | 1389.7 | 1385.1 |
| 20°   | 1336.4 | 1337.7 | 1341.6 | 1349.5 | 1359.4 | 1371.3 | 1382.4 | 1391.7 | 1401.5 | 1404.8 | 1401.5 |
| 22.5° | 1340.3 | 1342.9 | 1347.6 | 1356.8 | 1369.9 | 1385.1 | 1398.2 | 1410.8 | 1423.3 | 1429.2 | 1424.6 |
| 25°   | 1358.1 | 1360.7 | 1366.6 | 1378.5 | 1393.0 | 1408.8 | 1423.9 | 1438.4 | 1449.6 | 1455.5 | 1452.2 |
| 27.5° | 1391.0 | 1394.3 | 1401.5 | 1413.4 | 1429.2 | 1446.3 | 1462.8 | 1474.6 | 1483.8 | 1485.8 | 1481.8 |
| 30°   | 1440.4 | 1447.6 | 1456.2 | 1469.3 | 1487.8 | 1502.3 | 1518.7 | 1529.2 | 1540.4 | 1540.4 | 1537.1 |
| 32.5° | 1517.4 | 1524.6 | 1533.9 | 1546.4 | 1560.8 | 1576.6 | 1591.1 | 1600.3 | 1612.2 | 1612.9 | 1605.0 |
| 35°   | 1632.6 | 1635.9 | 1643.8 | 1651.7 | 1664.9 | 1678.7 | 1691.2 | 1697.1 | 1707.0 | 1707.6 | 1700.4 |
| 37.5° | 1784.7 | 1785.3 | 1790.6 | 1793.2 | 1805.1 | 1820.2 | 1832.1 | 1836.0 | 1845.2 | 1843.9 | 1836.7 |
| 40°   | 1961.8 | 1965.0 | 1967.0 | 1971.0 | 1983.5 | 1998.0 | 2010.5 | 2012.4 | 2022.3 | 2020.3 | 2011.1 |
| 42.5° | 2166.5 | 2167.8 | 2179.0 | 2184.9 | 2196.8 | 2204.0 | 2219.8 | 2221.8 | 2233.6 | 2228.4 | 2217.8 |
| 45°   | 2396.2 | 2408.1 | 2418.6 | 2430.5 | 2443.0 | 2451.5 | 2464.0 | 2461.4 | 2469.3 | 2461.4 | 2455.5 |
| 47.5° | 2637.8 | 2646.4 | 2670.1 | 2688.5 | 2708.9 | 2716.2 | 2733.9 | 2726.0 | 2733.9 | 2722.8 | 2720.8 |
| 50°   | 2903.8 | 2918.9 | 2939.3 | 2960.4 | 2982.1 | 2994.0 | 3017.0 | 3007.1 | 3017.7 | 3007.1 | 3001.2 |
| 52.5° | 3165.8 | 3169.7 | 3214.5 | 3245.5 | 3275.7 | 3289.6 | 3303.4 | 3298.8 | 3299.4 | 3298.8 | 3292.8 |
| 55°   | 3414.6 | 3423.9 | 3468.6 | 3510.7 | 3563.4 | 3602.3 | 3626.0 | 3623.3 | 3617.4 | 3611.5 | 3601.6 |
| 57.5° | 3695.1 | 3704.3 | 3755.6 | 3807.6 | 3867.6 | 3922.8 | 3970.9 | 4020.3 | 4039.4 | 4044.6 | 4022.9 |
| 60°   | 4074.3 | 4073.6 | 4142.1 | 4205.3 | 4290.8 | 4373.1 | 4478.5 | 4585.8 | 4708.9 | 4766.1 | 4690.4 |
| 62.5° | 4460.0 | 4475.8 | 4574.6 | 4686.5 | 4862.9 | 5034.7 | 5228.9 | 5419.8 | 5614.7 | 5773.3 | 5604.8 |
| 65°   | 4413.9 | 4474.5 | 4621.3 | 4874.8 | 5200.6 | 5587.7 | 6006.4 | 6449.4 | 6849.7 | 7124.9 | 6816.1 |
| 67.5° | 3825.4 | 3911.7 | 4061.1 | 4369.2 | 4776.7 | 5334.9 | 6038.0 | 6914.2 | 7932.6 | 8425.0 | 7814.8 |
| 70°   | 2772.8 | 2870.2 | 3026.9 | 3327.7 | 3731.3 | 4261.9 | 5025.5 | 6077.5 | 7425.7 | 7922.1 | 7249.9 |
| 72.5° | 1379.8 | 1432.5 | 1529.2 | 1720.8 | 2026.3 | 2456.8 | 3149.3 | 4160.5 | 5353.3 | 5808.9 | 5194.7 |
| 75°   | 468.7  | 493.1  | 509.5  | 572.1  | 668.8  | 838.0  | 1182.3 | 1818.9 | 2774.8 | 3326.4 | 2735.3 |
| 77.5° | 270.6  | 271.2  | 282.4  | 293.6  | 310.1  | 328.5  | 374.6  | 491.8  | 850.5  | 1208.0 | 880.2  |
| 80°   | 175.1  | 174.5  | 183.7  | 192.2  | 203.4  | 212.6  | 215.3  | 227.8  | 262.7  | 311.4  | 278.5  |
| 82.5° | 90.8   | 102.0  | 122.4  | 133.6  | 154.7  | 158.7  | 153.4  | 148.8  | 157.3  | 163.3  | 167.2  |
| 85°   | 50.0   | 43.4   | 65.2   | 84.3   | 93.5   | 94.8   | 94.8   | 89.5   | 92.8   | 90.8   | 98.7   |
| 87.5° | 23.0   | 21.1   | 25.7   | 41.5   | 44.1   | 37.5   | 39.5   | 34.9   | 25.0   | 24.4   | 27.6   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 | 1426.6 |
| 2.5°  | 1420.0 | 1420.6 | 1420.6 | 1422.6 | 1423.3 | 1424.6 | 1425.9 | 1426.6 |
| 5°    | 1408.8 | 1410.8 | 1409.4 | 1411.4 | 1411.4 | 1412.7 | 1412.7 | 1413.4 |
| 7.5°  | 1392.3 | 1394.3 | 1394.3 | 1394.3 | 1393.6 | 1395.6 | 1395.6 | 1395.6 |
| 10°   | 1375.2 | 1376.5 | 1375.9 | 1374.5 | 1373.2 | 1375.2 | 1374.5 | 1373.9 |
| 12.5° | 1369.9 | 1366.6 | 1364.0 | 1362.7 | 1360.1 | 1360.7 | 1358.7 | 1358.7 |
| 15°   | 1373.2 | 1367.3 | 1362.7 | 1360.7 | 1358.1 | 1356.8 | 1355.5 | 1356.1 |
| 17.5° | 1381.8 | 1374.5 | 1368.6 | 1365.3 | 1362.0 | 1360.1 | 1357.4 | 1358.1 |
| 20°   | 1396.9 | 1388.4 | 1379.8 | 1373.2 | 1367.3 | 1364.0 | 1362.0 | 1361.4 |
| 22.5° | 1419.3 | 1406.8 | 1394.3 | 1384.4 | 1376.5 | 1371.9 | 1369.9 | 1368.6 |
| 25°   | 1445.0 | 1431.2 | 1416.7 | 1405.5 | 1397.6 | 1391.7 | 1387.7 | 1387.7 |
| 27.5° | 1477.2 | 1466.0 | 1452.9 | 1439.7 | 1432.5 | 1426.6 | 1423.9 | 1422.6 |
| 30°   | 1531.2 | 1520.7 | 1510.2 | 1497.6 | 1488.4 | 1482.5 | 1477.9 | 1473.9 |
| 32.5° | 1600.3 | 1591.8 | 1583.2 | 1574.0 | 1565.5 | 1557.6 | 1550.3 | 1547.0 |
| 35°   | 1697.8 | 1691.2 | 1685.3 | 1674.7 | 1671.4 | 1666.8 | 1662.9 | 1659.6 |
| 37.5° | 1832.1 | 1829.4 | 1829.4 | 1818.2 | 1815.6 | 1813.6 | 1809.7 | 1810.3 |
| 40°   | 2008.5 | 2011.1 | 2007.8 | 2003.9 | 2001.9 | 1996.6 | 1996.6 | 2001.3 |
| 42.5° | 2217.2 | 2219.2 | 2226.4 | 2219.8 | 2227.1 | 2220.5 | 2216.5 | 2219.8 |
| 45°   | 2459.4 | 2466.7 | 2481.2 | 2474.6 | 2479.2 | 2468.0 | 2454.2 | 2454.8 |
| 47.5° | 2731.3 | 2737.9 | 2743.8 | 2739.2 | 2739.9 | 2721.4 | 2703.0 | 2698.4 |
| 50°   | 3013.7 | 3016.4 | 3019.7 | 3013.1 | 3014.4 | 2994.0 | 2972.9 | 2973.6 |
| 52.5° | 3292.8 | 3305.4 | 3318.5 | 3300.7 | 3296.8 | 3273.8 | 3244.1 | 3232.3 |
| 55°   | 3612.1 | 3629.9 | 3614.8 | 3583.8 | 3552.9 | 3521.9 | 3483.1 | 3476.5 |
| 57.5° | 4005.8 | 3975.5 | 3928.1 | 3869.5 | 3826.7 | 3783.3 | 3743.8 | 3727.3 |
| 60°   | 4553.5 | 4439.6 | 4354.0 | 4267.1 | 4212.5 | 4159.2 | 4107.2 | 4099.3 |
| 62.5° | 5327.7 | 5130.8 | 4960.3 | 4780.6 | 4633.8 | 4519.3 | 4427.8 | 4402.1 |
| 65°   | 6298.0 | 5832.6 | 5429.1 | 5052.5 | 4725.3 | 4478.5 | 4323.1 | 4254.6 |
| 67.5° | 6715.4 | 5796.4 | 5104.5 | 4570.0 | 4142.1 | 3843.2 | 3675.3 | 3591.7 |
| 70°   | 5901.1 | 4807.0 | 4054.5 | 3519.3 | 3129.6 | 2811.0 | 2658.9 | 2569.4 |
| 72.5° | 4059.8 | 3057.8 | 2418.0 | 1973.6 | 1662.2 | 1395.6 | 1290.3 | 1282.4 |
| 75°   | 1822.9 | 1207.3 | 832.1  | 641.2  | 539.8  | 469.4  | 447.6  | 431.2  |
| 77.5° | 510.2  | 377.2  | 336.4  | 314.7  | 293.6  | 269.2  | 260.0  | 262.0  |
| 80°   | 248.2  | 234.4  | 225.1  | 211.3  | 192.2  | 171.8  | 162.6  | 166.6  |
| 82.5° | 164.6  | 162.6  | 168.5  | 158.7  | 131.0  | 111.3  | 93.5   | 85.6   |
| 85°   | 100.1  | 101.4  | 103.4  | 104.0  | 88.2   | 61.9   | 42.1   | 47.4   |
| 87.5° | 39.5   | 45.4   | 49.4   | 51.3   | 48.1   | 29.6   | 23.7   | 24.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)