

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: P95434

Luminaire Tested: **VFS-K-B40-5-LED-E1-WST**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P95434  
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22641)  
Test Lab: INNOVATION CENTER  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VFS-K-B40-5-LED-E1-WST  
Description: ARCHITECTURAL FLOOD LUMINAIRE  
WIDE SYMMETRIC RECTANGULAR DISTRIBUTION  
WITH 40 LED'S, 525mA DRIVE CURRENT  
Light Source: -  
Ballast/Driver: -

**Summary**

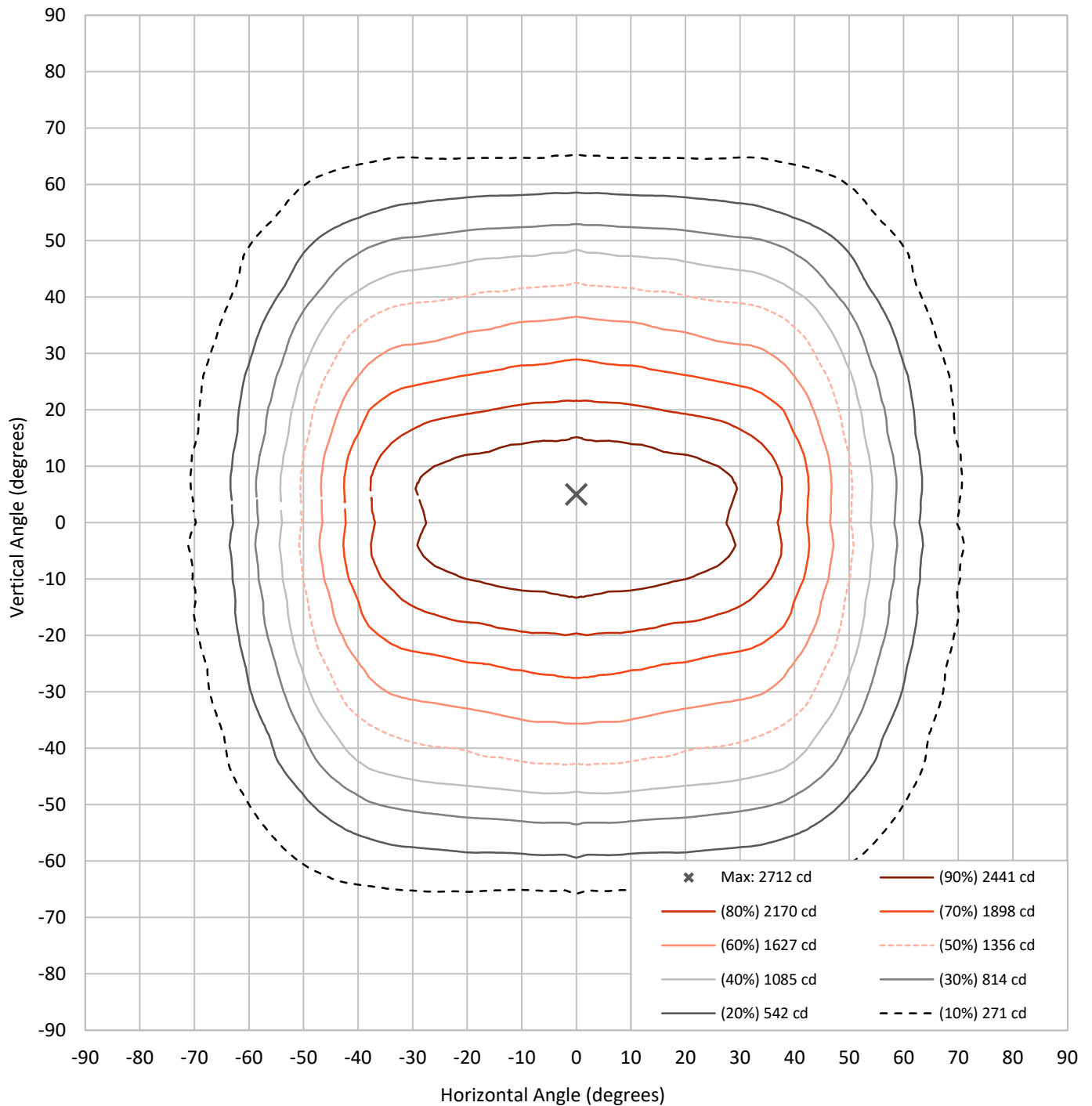
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	5774.3 lumens	Max Intensity:	2712 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	87.2 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	101.1°H x 85.4°V	Field Angle (10%):	140.9°H x 130.5°V
Beam Lumens:	4038.9 lumens	Field Lumens:	5570.6 lumens
Beam Efficiency:	69.9%	Field Efficiency:	96.5%
Input Watts (W):	66.2		
Input Voltage (V):	NR		
Input Current (A <sub>in</sub> ):	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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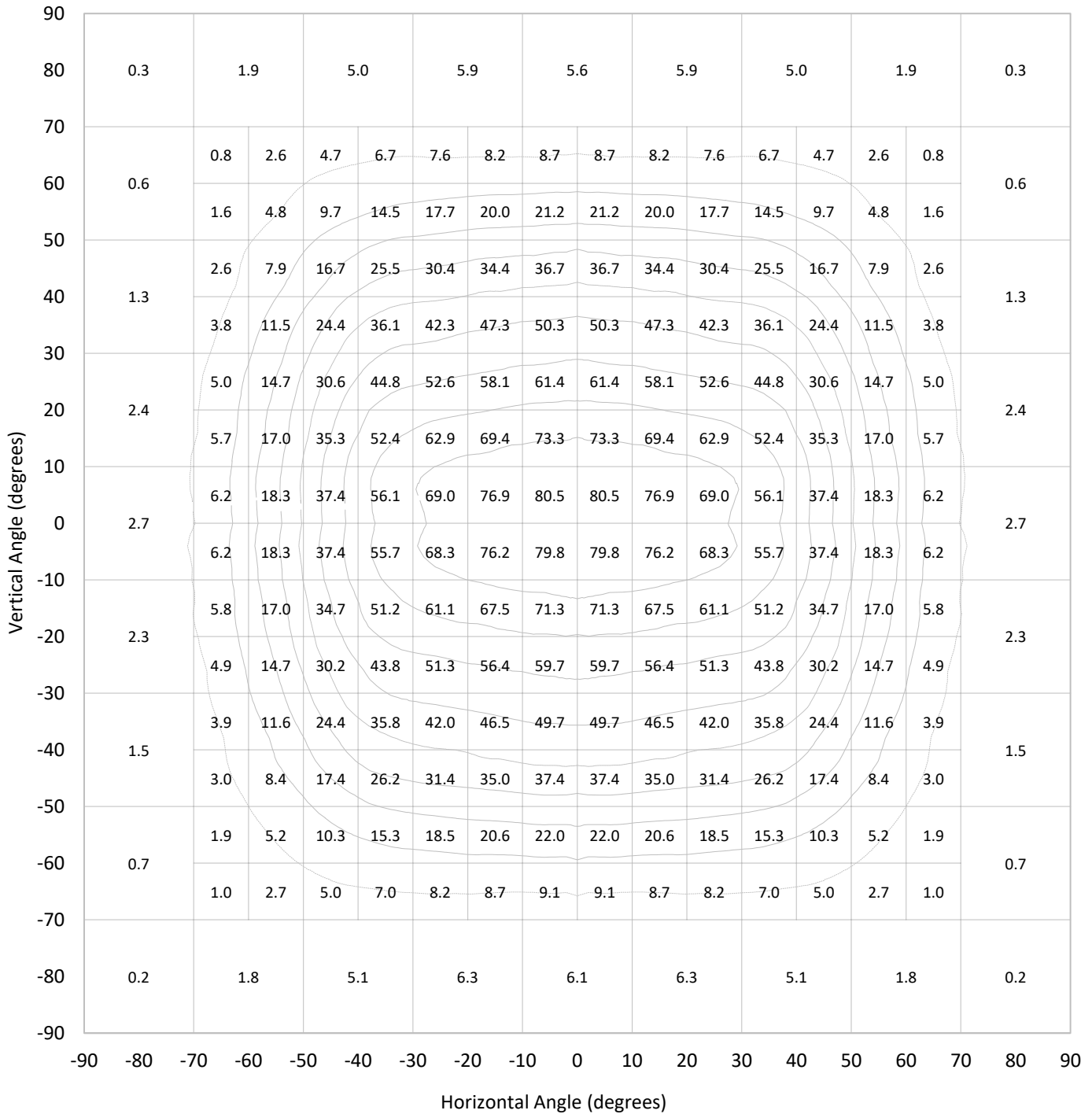
### Iso-Candela Plot





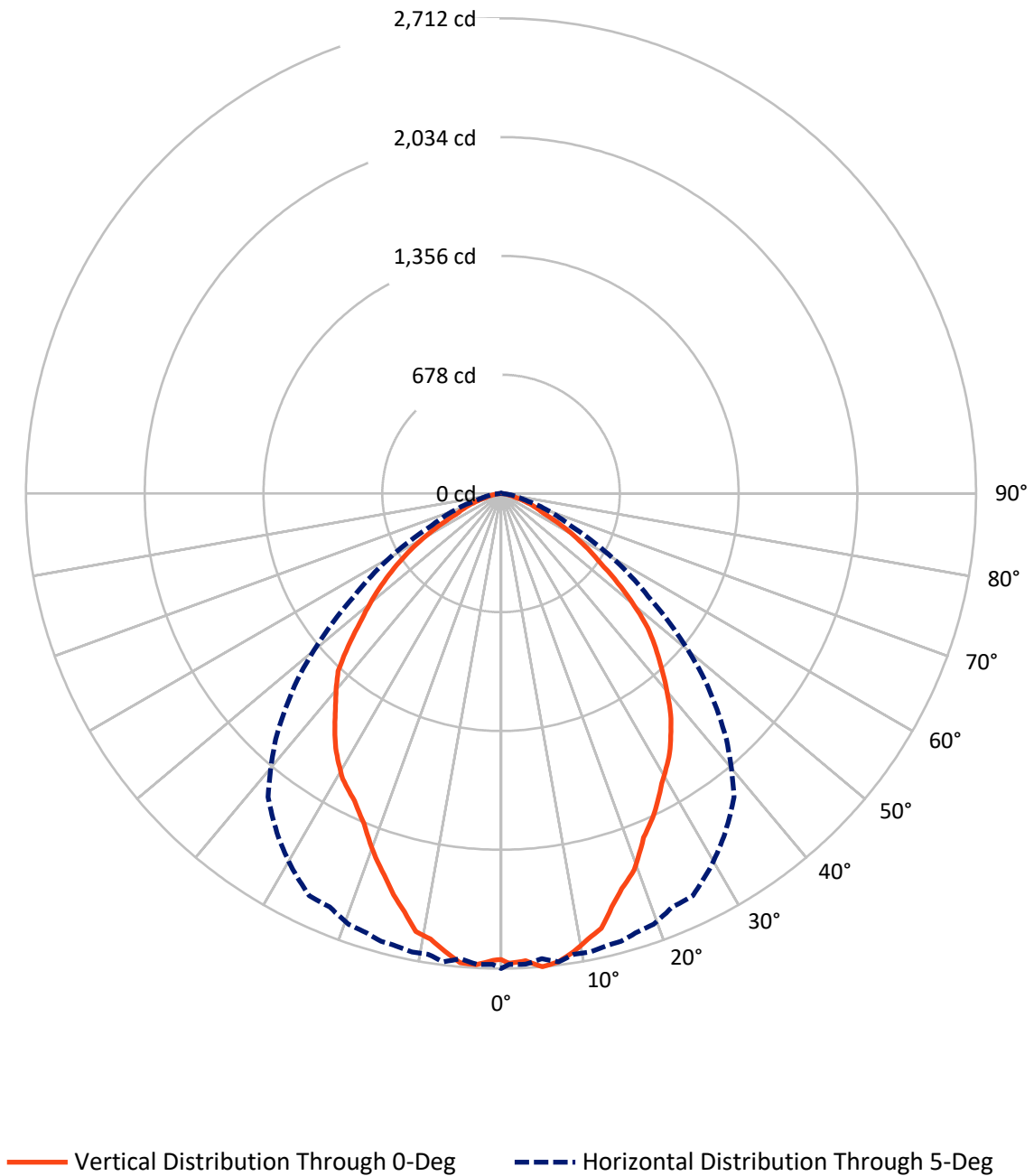
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### Lumen Table



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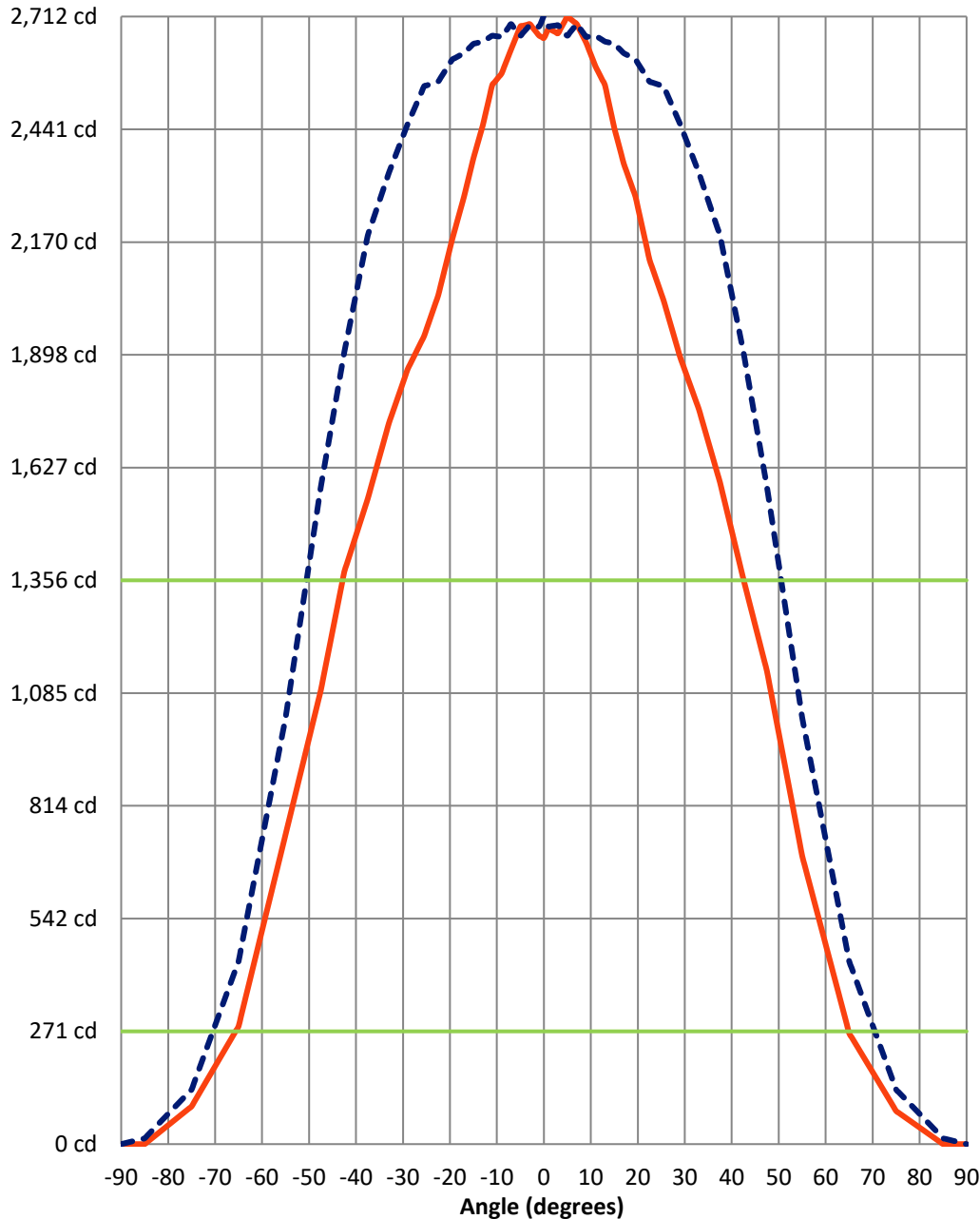
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 101.1°  
 V Angle: 85.4°  
 Lumens: 4038.9  
 Efficiency: 69.9%

**Field:**  
 H Angle: 140.9°  
 V Angle: 130.5°  
 Lumens: 5570.6  
 Efficiency: 96.5%

**Spill:**  
 Lumens: 203.7  
 Efficiency: 3.5%

— Vertical Distribution through 0-Deg  
 - - - Horizontal Distribution through 5-Deg



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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.4	14.0	2.8
75°	79.6	60.1	82.4	62.9	68.5	65.7	76.8	71.3	74.1	79.6	76.8
65°	266.9	252.9	266.9	258.5	238.9	255.7	247.3	250.1	250.1	250.1	250.1
55°	693.0	687.4	690.2	690.2	687.4	673.5	673.5	665.1	670.7	662.3	653.9
47.5°	1137.3	1108.0	1105.2	1105.2	1074.5	1077.3	1080.1	1063.3	1057.7	1054.9	1038.1
42.5°	1358.1	1341.3	1330.2	1333.0	1319.0	1313.4	1313.4	1278.5	1284.1	1296.6	1250.5
37.5°	1591.4	1588.6	1571.9	1566.3	1560.7	1560.7	1549.5	1525.8	1514.6	1509.0	1492.2
33°	1767.5	1764.7	1750.7	1736.8	1734.0	1720.0	1731.2	1711.6	1676.7	1668.3	1659.9
29°	1893.2	1896.0	1887.7	1868.1	1861.1	1855.5	1861.1	1836.0	1819.2	1810.8	1778.7
25.5°	2028.8	2009.2	2006.4	1992.4	1998.0	1984.1	1984.1	1967.3	1953.3	1946.3	1929.6
22.5°	2126.6	2140.6	2123.8	2114.0	2118.2	2111.2	2094.4	2086.1	2072.1	2055.3	2041.3
19.5°	2278.9	2256.5	2262.1	2253.7	2248.1	2239.8	2225.8	2211.8	2193.6	2179.7	2165.7
17°	2358.5	2344.5	2344.5	2355.7	2352.9	2319.4	2325.0	2322.2	2285.9	2267.7	2262.1
15°	2443.7	2429.8	2415.8	2410.2	2424.2	2393.4	2379.5	2376.7	2344.5	2322.2	2319.4
13°	2547.1	2517.8	2506.6	2503.8	2506.6	2492.7	2489.9	2489.9	2446.5	2427.0	2421.4
11°	2591.9	2575.1	2561.1	2544.3	2558.3	2544.3	2536.0	2526.2	2498.2	2481.5	2470.3
9°	2649.1	2635.2	2632.4	2615.6	2635.2	2632.4	2611.4	2608.6	2589.1	2555.5	2541.6
7°	2693.9	2685.5	2677.1	2651.9	2665.9	2646.3	2654.7	2646.3	2626.8	2605.8	2605.8
5°	2712.0	2688.3	2691.1	2665.9	2693.9	2663.1	2665.9	2651.9	2646.3	2624.0	2608.6
3°	2671.5	2668.7	2663.1	2651.9	2674.3	2651.9	2651.9	2643.6	2635.2	2608.6	2600.2
1°	2682.7	2668.7	2665.9	2632.4	2654.7	2646.3	2660.3	2629.6	2621.2	2603.0	2597.4
0°	2660.3	2657.5	2649.1	2618.4	2643.6	2649.1	2635.2	2632.4	2611.4	2586.3	2589.1
-1°	2665.9	2654.7	2643.6	2632.4	2654.7	2635.2	2643.6	2649.1	2624.0	2594.6	2580.7
-3°	2693.9	2674.3	2665.9	2677.1	2679.9	2677.1	2657.5	2660.3	2654.7	2618.4	2608.6
-5°	2688.3	2682.7	2671.5	2677.1	2677.1	2682.7	2665.9	2660.3	2635.2	2611.4	2589.1
-7°	2632.4	2615.6	2618.4	2600.2	2611.4	2603.0	2600.2	2591.9	2586.3	2533.2	2526.2
-9°	2575.1	2575.1	2569.5	2566.7	2580.7	2561.1	2549.9	2541.6	2536.0	2498.2	2481.5
-11°	2547.1	2517.8	2509.4	2495.4	2487.1	2495.4	2478.7	2464.7	2453.5	2427.0	2413.0
-13°	2450.7	2438.2	2443.7	2407.4	2401.8	2401.8	2390.7	2385.1	2352.9	2330.6	2330.6
-15°	2371.1	2358.5	2368.3	2355.7	2358.5	2352.9	2339.0	2325.0	2297.0	2267.7	2264.9
-17°	2278.9	2285.9	2291.5	2270.5	2278.9	2276.1	2264.9	2264.9	2234.2	2200.6	2193.6
-19.5°	2176.9	2193.6	2182.5	2168.5	2174.1	2171.3	2148.9	2135.0	2123.8	2105.6	2105.6
-22.5°	2041.3	2066.5	2052.5	2041.3	2044.1	2044.1	2023.2	2014.8	1998.0	1981.3	1975.7
-25.5°	1943.5	1958.9	1940.7	1932.4	1938.0	1918.4	1915.6	1912.8	1884.9	1879.3	1876.5
-29°	1863.9	1858.3	1855.5	1847.1	1841.5	1833.2	1813.6	1813.6	1767.5	1775.9	1767.5
-33°	1734.0	1739.5	1720.0	1711.6	1725.6	1708.8	1693.4	1682.3	1659.9	1648.7	1632.0
-37.5°	1552.3	1557.9	1546.7	1538.3	1546.7	1534.2	1520.2	1495.0	1483.9	1475.5	1453.1
-42.5°	1376.3	1387.4	1381.9	1366.5	1381.9	1360.9	1349.7	1327.4	1327.4	1327.4	1296.6
-47.5°	1091.2	1105.2	1110.8	1110.8	1110.8	1094.0	1088.4	1071.7	1066.1	1052.1	1043.7
-55°	744.7	725.2	711.2	725.2	716.8	719.6	695.8	701.4	687.4	690.2	687.4
-65°	283.6	264.1	264.1	272.5	264.1	261.3	261.3	261.3	266.9	266.9	275.3
-75°	90.8	65.7	85.2	65.7	74.1	82.4	88.0	82.4	85.2	88.0	82.4
-85°	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.8	2.8	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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**CANDELA DISTRIBUTION (continued):**

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	5.6	2.8	8.4	8.4	16.8	14.0	16.8	14.0	14.0	19.6
75°	79.6	76.8	85.2	90.8	85.2	74.1	74.1	54.5	22.4	16.8	16.8
65°	247.3	247.3	255.7	258.5	241.7	219.4	195.6	150.9	51.7	25.2	11.2
55°	637.1	626.0	602.2	585.4	530.9	469.5	401.0	255.7	107.6	25.2	5.6
47.5°	1014.4	992.0	969.7	961.3	887.2	761.5	626.0	401.0	184.4	51.7	14.0
42.5°	1222.6	1208.6	1190.4	1162.5	1088.4	948.7	744.7	472.3	187.2	27.9	0.0
37.5°	1464.3	1437.7	1432.2	1404.2	1324.6	1176.5	929.2	591.0	247.3	76.8	11.2
33°	1634.8	1599.8	1577.5	1569.1	1497.8	1335.7	1077.3	676.3	289.2	96.4	14.0
29°	1764.7	1742.3	1734.0	1708.8	1616.6	1446.1	1184.8	736.3	321.4	104.8	14.0
25.5°	1910.0	1884.9	1861.1	1833.2	1739.5	1541.1	1293.8	810.4	360.5	107.6	14.0
22.5°	2020.4	2000.8	1970.1	1935.2	1830.4	1626.4	1349.7	846.7	371.7	107.6	8.4
19.5°	2148.9	2129.4	2097.2	2046.9	1938.0	1693.4	1409.8	901.2	384.2	116.0	14.0
17°	2239.8	2214.6	2179.7	2114.0	1984.1	1756.3	1448.9	918.0	389.8	116.0	11.2
15°	2305.4	2259.3	2220.2	2162.9	2028.8	1788.4	1472.7	920.8	389.8	110.4	2.8
13°	2401.8	2352.9	2313.8	2231.4	2111.2	1849.9	1528.6	975.3	423.4	142.5	14.0
11°	2450.7	2424.2	2368.3	2264.9	2129.4	1866.7	1557.9	989.2	428.9	142.5	11.2
9°	2501.0	2475.9	2410.2	2322.2	2179.7	1896.0	1569.1	1017.2	440.1	139.7	16.8
7°	2538.8	2526.2	2459.1	2341.8	2188.1	1910.0	1588.6	1031.2	458.3	136.9	19.6
5°	2555.5	2544.3	2453.5	2336.2	2185.3	1904.4	1580.3	1025.6	440.1	131.3	14.0
3°	2547.1	2509.4	2413.0	2319.4	2174.1	1887.7	1571.9	1017.2	426.2	118.8	8.4
1°	2547.1	2509.4	2413.0	2313.8	2176.9	1898.8	1583.1	1014.4	437.3	118.8	11.2
0°	2520.6	2489.9	2404.6	2288.7	2157.3	1887.7	1566.3	1006.0	417.8	107.6	5.6
-1°	2520.6	2495.4	2410.2	2302.6	2165.7	1898.8	1580.3	1011.6	434.5	118.8	8.4
-3°	2549.9	2512.2	2453.5	2336.2	2174.1	1910.0	1608.2	1038.1	458.3	153.7	27.9
-5°	2541.6	2517.8	2446.5	2333.4	2193.6	1918.4	1611.0	1033.9	458.3	153.7	36.3
-7°	2478.7	2456.3	2396.2	2302.6	2162.9	1884.9	1563.5	1003.2	423.4	125.8	19.6
-9°	2450.7	2427.0	2358.5	2262.1	2129.4	1873.7	1563.5	1003.2	437.3	134.1	27.9
-11°	2385.1	2350.1	2288.7	2220.2	2102.8	1838.7	1531.4	994.8	420.6	134.1	25.2
-13°	2291.5	2262.1	2217.4	2154.5	2031.6	1778.7	1483.9	945.9	398.2	113.2	8.4
-15°	2248.1	2214.6	2185.3	2140.6	2006.4	1756.3	1467.1	940.3	415.0	136.9	14.0
-17°	2185.3	2151.7	2121.0	2072.1	1964.5	1742.3	1440.5	932.0	412.2	136.9	16.8
-19.5°	2091.6	2058.1	2026.0	1984.1	1884.9	1659.9	1393.0	904.0	387.0	118.8	11.2
-22.5°	1953.3	1929.6	1915.6	1884.9	1788.4	1594.2	1355.3	855.1	368.9	107.6	8.4
-25.5°	1855.5	1830.4	1810.8	1785.7	1690.6	1511.8	1267.3	804.8	335.3	93.6	2.8
-29°	1745.1	1722.8	1706.0	1696.2	1605.4	1435.0	1182.1	755.9	327.0	102.0	16.8
-33°	1616.6	1597.0	1585.9	1546.7	1483.9	1330.2	1085.6	676.3	301.8	88.0	14.0
-37.5°	1432.2	1423.8	1409.8	1376.3	1302.2	1162.5	929.2	588.2	252.9	65.7	2.8
-42.5°	1275.7	1275.7	1256.1	1211.4	1154.1	1008.8	810.4	528.2	238.9	85.2	30.7
-47.5°	1033.9	1017.2	994.8	955.7	909.6	786.6	637.1	406.6	195.6	51.7	11.2
-55°	670.7	653.9	639.9	626.0	582.6	517.0	423.4	289.2	131.3	36.3	14.0
-65°	269.7	275.3	269.7	264.1	250.1	238.9	204.0	148.1	68.5	19.6	8.4
-75°	90.8	90.8	88.0	93.6	102.0	85.2	71.3	43.3	30.7	14.0	8.4
-85°	2.8	2.8	0.0	2.8	8.4	0.0	2.8	14.0	14.0	2.8	8.4
-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):**

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)