

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: P95433

Luminaire Tested: **VFS-K-B40-3-LED-E1-WST**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P95433  
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-B40-3-LED-E1-WST  
Description: ARCHITECTURAL FLOOD LUMINAIRE  
WIDE SYMMETRIC RECTANGULAR DISTRIBUTION  
WITH 40 LED'S, 350mA DRIVE CURRENT  
Light Source: -  
Ballast/Driver: -

**Summary**

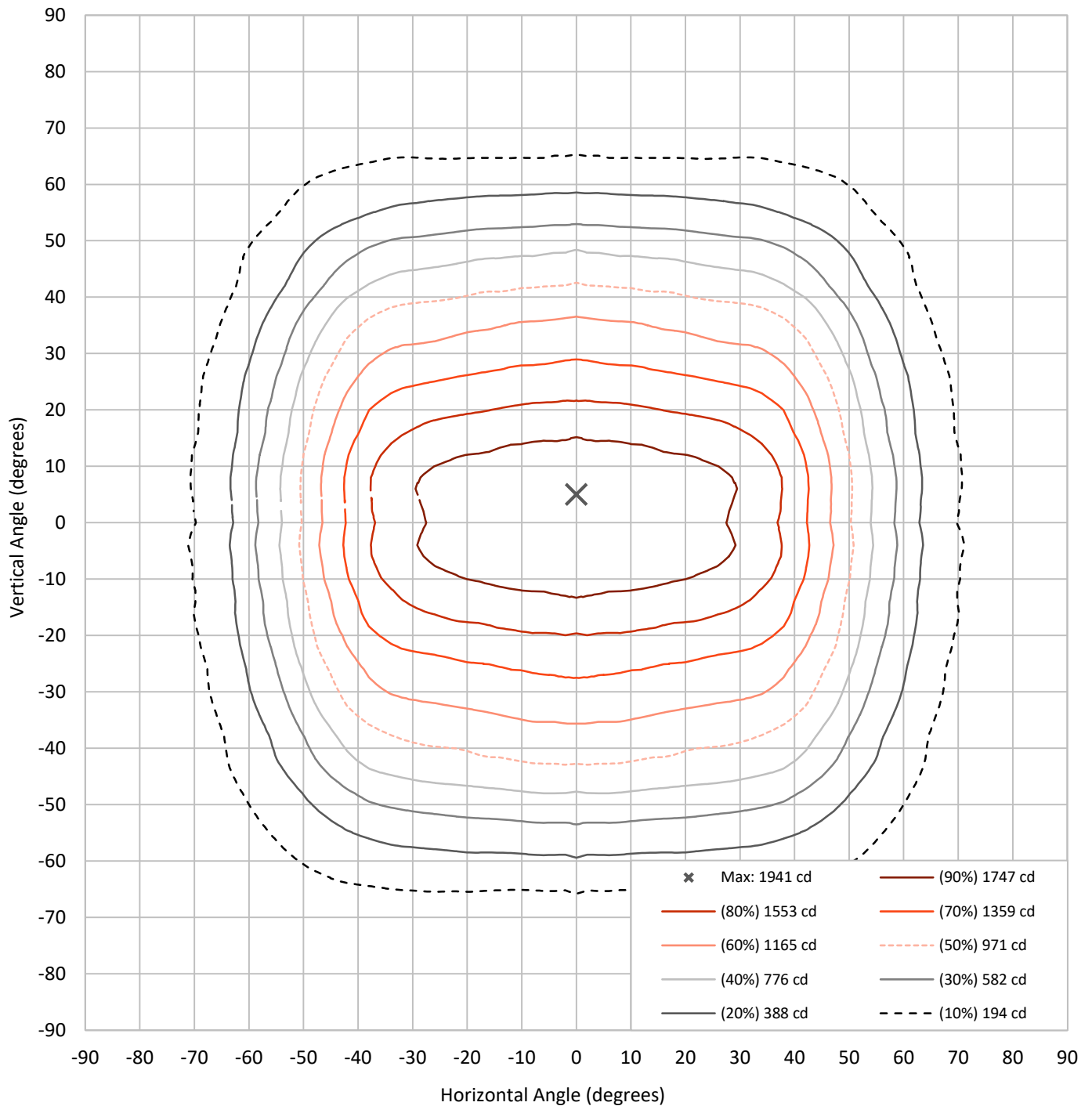
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	4132.7 lumens	Max Intensity:	1941 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	91.8 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	101.1°H x 85.4°V	Field Angle (10%):	140.9°H x 130.5°V
Beam Lumens:	2890.7 lumens	Field Lumens:	3986.9 lumens
Beam Efficiency:	69.9%	Field Efficiency:	96.5%
Input Watts (W):	45		
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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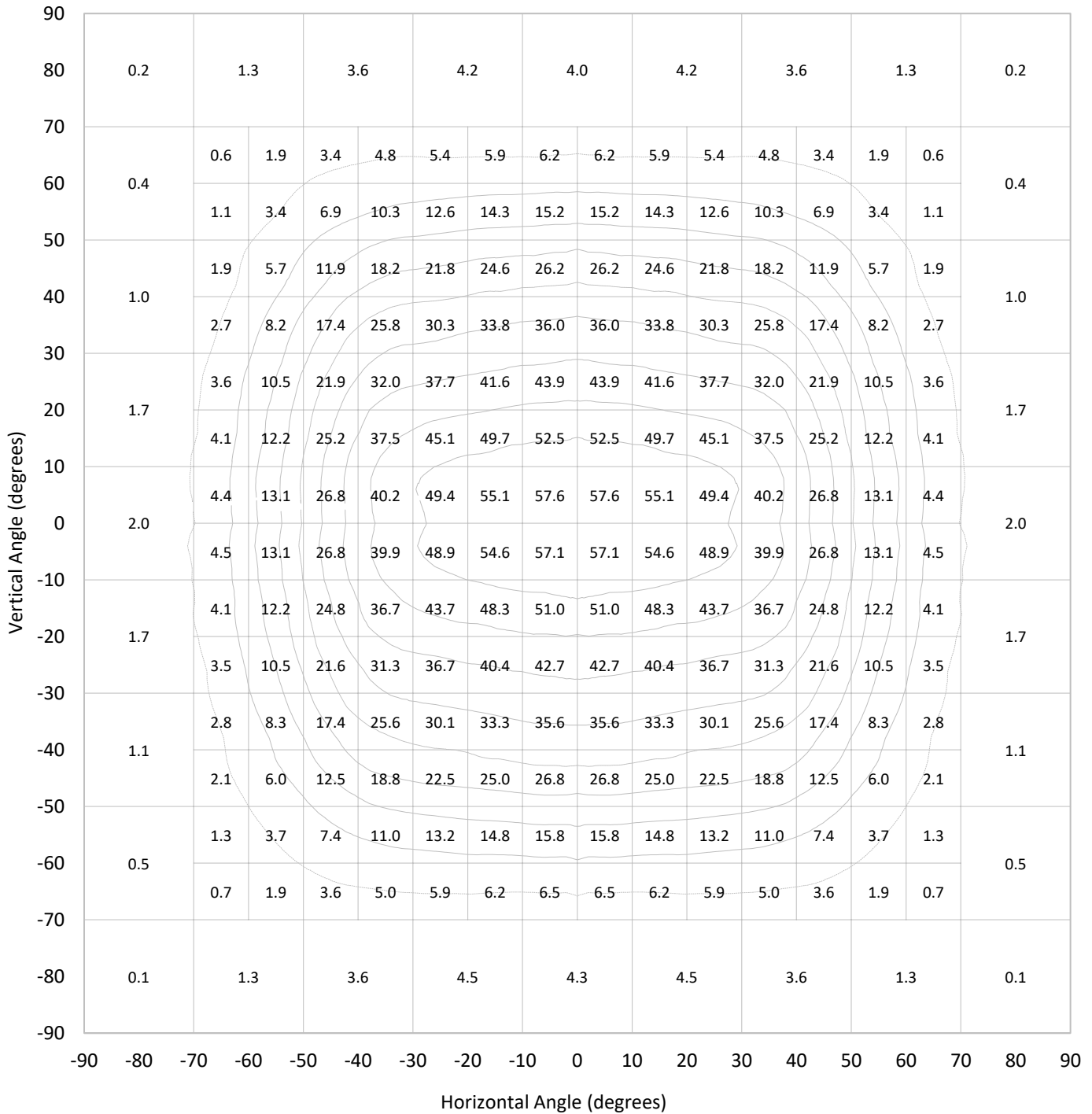
### Iso-Candela Plot





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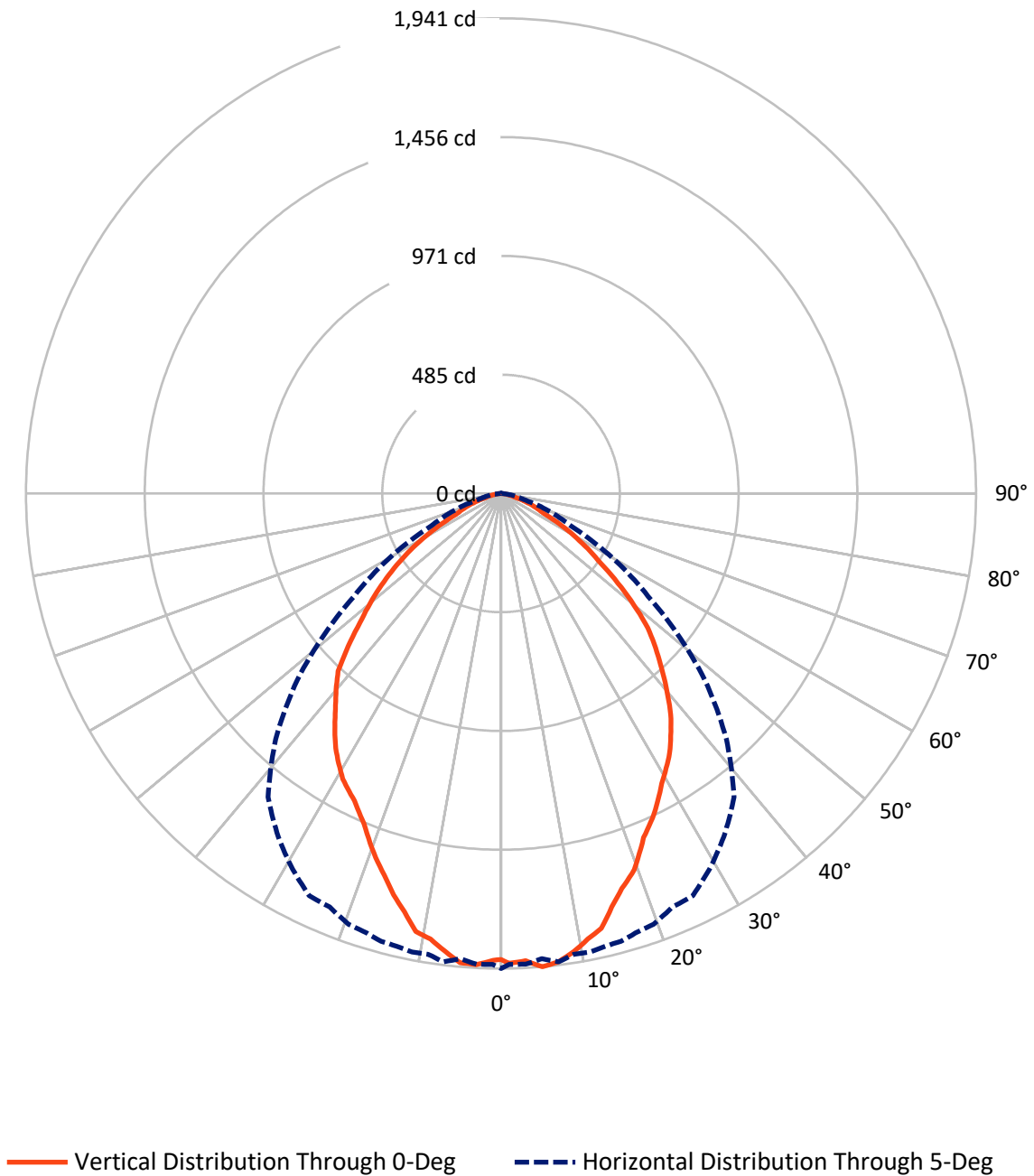
### Lumen Table



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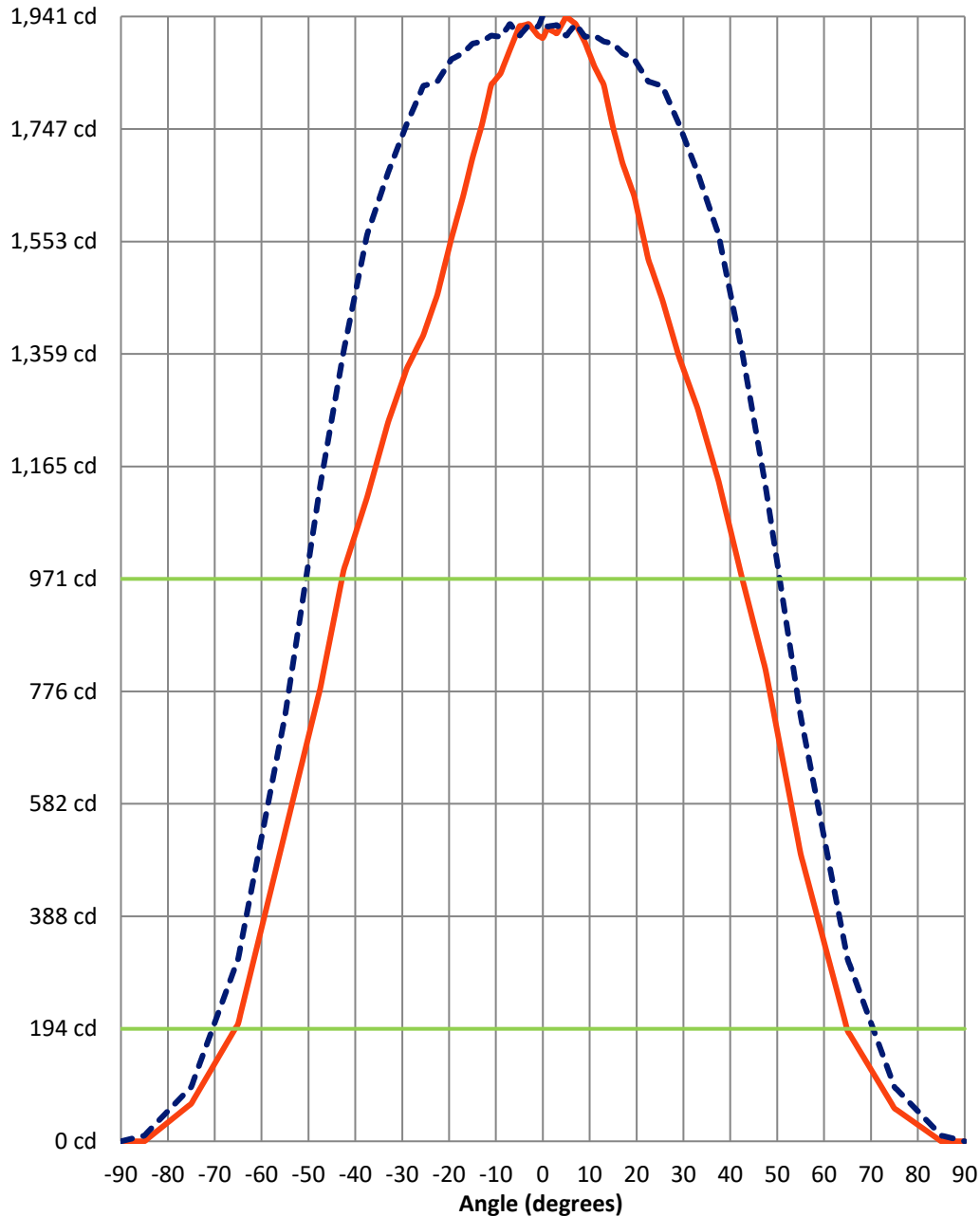
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 101.1°  
 V Angle: 85.4°  
 Lumens: 2890.7  
 Efficiency: 69.9%

**Field:**  
 H Angle: 140.9°  
 V Angle: 130.5°  
 Lumens: 3986.9  
 Efficiency: 96.5%

**Spill:**  
 Lumens: 145.8  
 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
85°	0	0	0	0	0	0	0	2	6	10	2
75°	57	43	59	45	49	47	55	51	53	57	55
65°	191	181	191	185	171	183	177	179	179	179	179
55°	496	492	494	494	492	482	482	476	480	474	468
47.5°	814	793	791	791	769	771	773	761	757	755	743
42.5°	972	960	952	954	944	940	940	915	919	928	895
37.5°	1139	1137	1125	1121	1117	1117	1109	1092	1084	1080	1068
33°	1265	1263	1253	1243	1241	1231	1239	1225	1200	1194	1188
29°	1355	1357	1351	1337	1332	1328	1332	1314	1302	1296	1273
25.5°	1452	1438	1436	1426	1430	1420	1420	1408	1398	1393	1381
22.5°	1522	1532	1520	1513	1516	1511	1499	1493	1483	1471	1461
19.5°	1631	1615	1619	1613	1609	1603	1593	1583	1570	1560	1550
17°	1688	1678	1678	1686	1684	1660	1664	1662	1636	1623	1619
15°	1749	1739	1729	1725	1735	1713	1703	1701	1678	1662	1660
13°	1823	1802	1794	1792	1794	1784	1782	1782	1751	1737	1733
11°	1855	1843	1833	1821	1831	1821	1815	1808	1788	1776	1768
9°	1896	1886	1884	1872	1886	1884	1869	1867	1853	1829	1819
7°	1928	1922	1916	1898	1908	1894	1900	1894	1880	1865	1865
5°	1941	1924	1926	1908	1928	1906	1908	1898	1894	1878	1867
3°	1912	1910	1906	1898	1914	1898	1898	1892	1886	1867	1861
1°	1920	1910	1908	1884	1900	1894	1904	1882	1876	1863	1859
0°	1904	1902	1896	1874	1892	1896	1886	1884	1869	1851	1853
-1°	1908	1900	1892	1884	1900	1886	1892	1896	1878	1857	1847
-3°	1928	1914	1908	1916	1918	1916	1902	1904	1900	1874	1867
-5°	1924	1920	1912	1916	1916	1920	1908	1904	1886	1869	1853
-7°	1884	1872	1874	1861	1869	1863	1861	1855	1851	1813	1808
-9°	1843	1843	1839	1837	1847	1833	1825	1819	1815	1788	1776
-11°	1823	1802	1796	1786	1780	1786	1774	1764	1756	1737	1727
-13°	1754	1745	1749	1723	1719	1719	1711	1707	1684	1668	1668
-15°	1697	1688	1695	1686	1688	1684	1674	1664	1644	1623	1621
-17°	1631	1636	1640	1625	1631	1629	1621	1621	1599	1575	1570
-19.5°	1558	1570	1562	1552	1556	1554	1538	1528	1520	1507	1507
-22.5°	1461	1479	1469	1461	1463	1463	1448	1442	1430	1418	1414
-25.5°	1391	1402	1389	1383	1387	1373	1371	1369	1349	1345	1343
-29°	1334	1330	1328	1322	1318	1312	1298	1298	1265	1271	1265
-33°	1241	1245	1231	1225	1235	1223	1212	1204	1188	1180	1168
-37.5°	1111	1115	1107	1101	1107	1098	1088	1070	1062	1056	1040
-42.5°	985	993	989	978	989	974	966	950	950	950	928
-47.5°	781	791	795	795	795	783	779	767	763	753	747
-55°	533	519	509	519	513	515	498	502	492	494	492
-65°	203	189	189	195	189	187	187	187	191	191	197
-75°	65	47	61	47	53	59	63	59	61	63	59
-85°	0	0	0	0	2	0	0	2	2	0	0
-90°	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
85°	4	4	2	6	6	12	10	12	10	10	14
75°	57	55	61	65	61	53	53	39	16	12	12
65°	177	177	183	185	173	157	140	108	37	18	8
55°	456	448	431	419	380	336	287	183	77	18	4
47.5°	726	710	694	688	635	545	448	287	132	37	10
42.5°	875	865	852	832	779	679	533	338	134	20	0
37.5°	1048	1029	1025	1005	948	842	665	423	177	55	8
33°	1170	1145	1129	1123	1072	956	771	484	207	69	10
29°	1263	1247	1241	1223	1157	1035	848	527	230	75	10
25.5°	1367	1349	1332	1312	1245	1103	926	580	258	77	10
22.5°	1446	1432	1410	1385	1310	1164	966	606	266	77	6
19.5°	1538	1524	1501	1465	1387	1212	1009	645	275	83	10
17°	1603	1585	1560	1513	1420	1257	1037	657	279	83	8
15°	1650	1617	1589	1548	1452	1280	1054	659	279	79	2
13°	1719	1684	1656	1597	1511	1324	1094	698	303	102	10
11°	1754	1735	1695	1621	1524	1336	1115	708	307	102	8
9°	1790	1772	1725	1662	1560	1357	1123	728	315	100	12
7°	1817	1808	1760	1676	1566	1367	1137	738	328	98	14
5°	1829	1821	1756	1672	1564	1363	1131	734	315	94	10
3°	1823	1796	1727	1660	1556	1351	1125	728	305	85	6
1°	1823	1796	1727	1656	1558	1359	1133	726	313	85	8
0°	1804	1782	1721	1638	1544	1351	1121	720	299	77	4
-1°	1804	1786	1725	1648	1550	1359	1131	724	311	85	6
-3°	1825	1798	1756	1672	1556	1367	1151	743	328	110	20
-5°	1819	1802	1751	1670	1570	1373	1153	740	328	110	26
-7°	1774	1758	1715	1648	1548	1349	1119	718	303	90	14
-9°	1754	1737	1688	1619	1524	1341	1119	718	313	96	20
-11°	1707	1682	1638	1589	1505	1316	1096	712	301	96	18
-13°	1640	1619	1587	1542	1454	1273	1062	677	285	81	6
-15°	1609	1585	1564	1532	1436	1257	1050	673	297	98	10
-17°	1564	1540	1518	1483	1406	1247	1031	667	295	98	12
-19.5°	1497	1473	1450	1420	1349	1188	997	647	277	85	8
-22.5°	1398	1381	1371	1349	1280	1141	970	612	264	77	6
-25.5°	1328	1310	1296	1278	1210	1082	907	576	240	67	2
-29°	1249	1233	1221	1214	1149	1027	846	541	234	73	12
-33°	1157	1143	1135	1107	1062	952	777	484	216	63	10
-37.5°	1025	1019	1009	985	932	832	665	421	181	47	2
-42.5°	913	913	899	867	826	722	580	378	171	61	22
-47.5°	740	728	712	684	651	563	456	291	140	37	8
-55°	480	468	458	448	417	370	303	207	94	26	10
-65°	193	197	193	189	179	171	146	106	49	14	6
-75°	65	65	63	67	73	61	51	31	22	10	6
-85°	2	2	0	2	6	0	2	10	10	2	6
-90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)