

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: P95421

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95421
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22788)
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-VAT
Description: ARCHITECTURAL FLOOD LUMINAIRE
VERTICAL ASYMMETRIC RECTANGULAR DISTRIBUTION
WITH 40 LED'S, 350mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

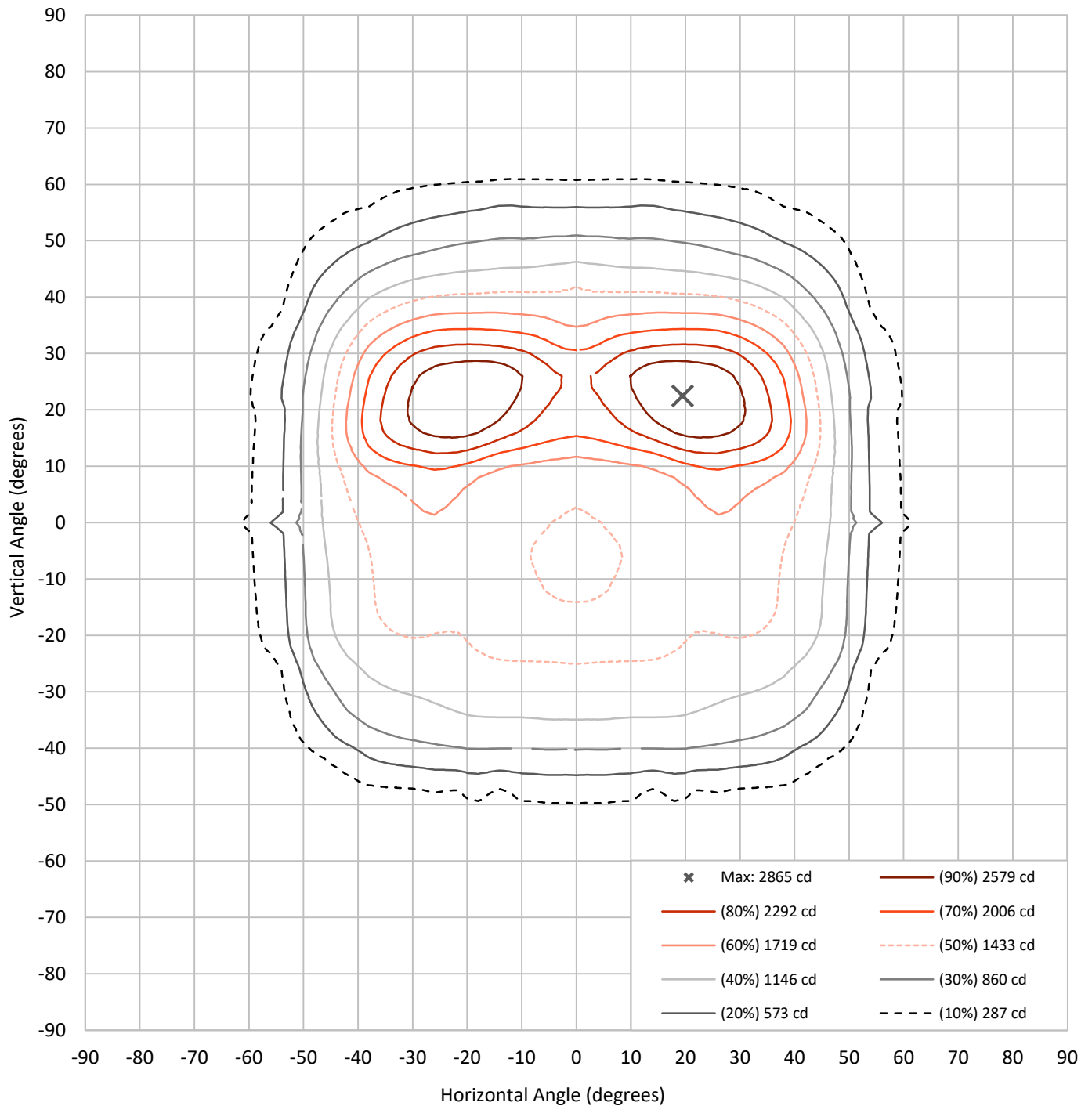
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	4177.3 lumens	Max Intensity:	2865 candela
Efficiency:	N/A	Max Intensity Angle:	19.5°H x 22.5°V
Efficacy:	92.8 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	88.4°H x 62.2°V	Field Angle (10%):	119.7°H x 109.7°V
Beam Lumens:	2532.8 lumens	Field Lumens:	4013.2 lumens
Beam Efficiency:	60.6%	Field Efficiency:	96.1%
Input Watts (W):	45		
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:	25 FT		



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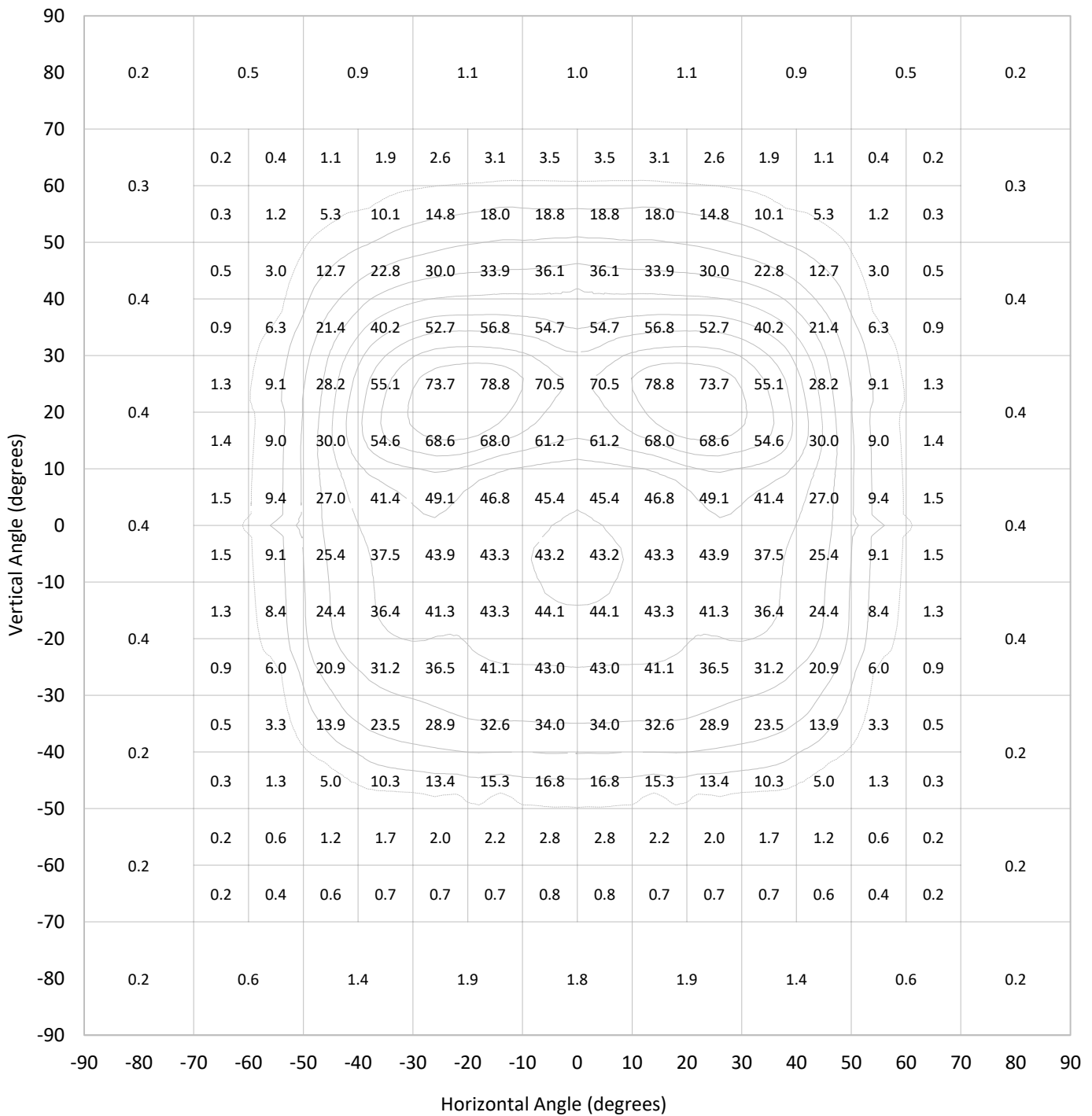
Iso-Candela Plot





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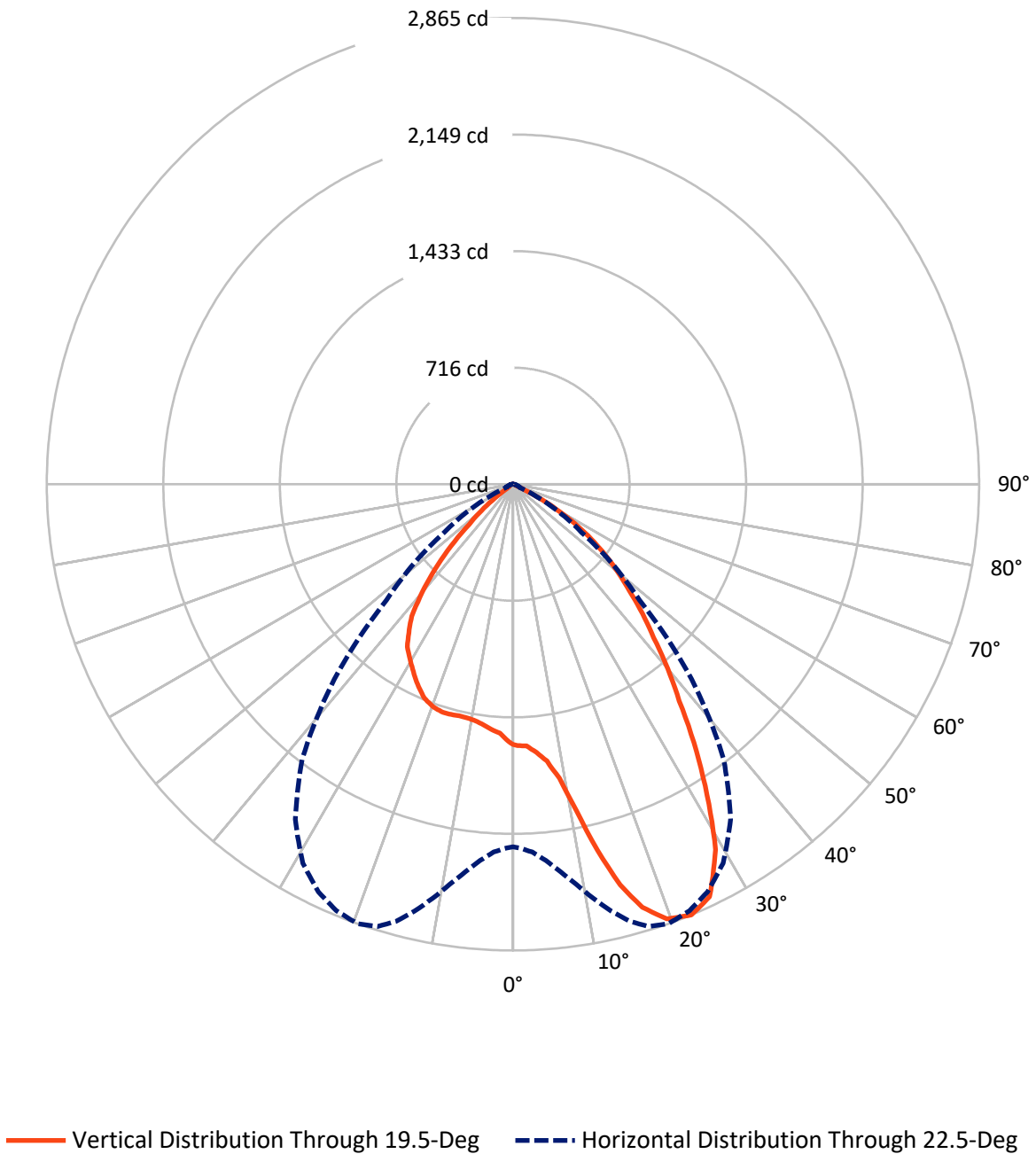
Lumen Table



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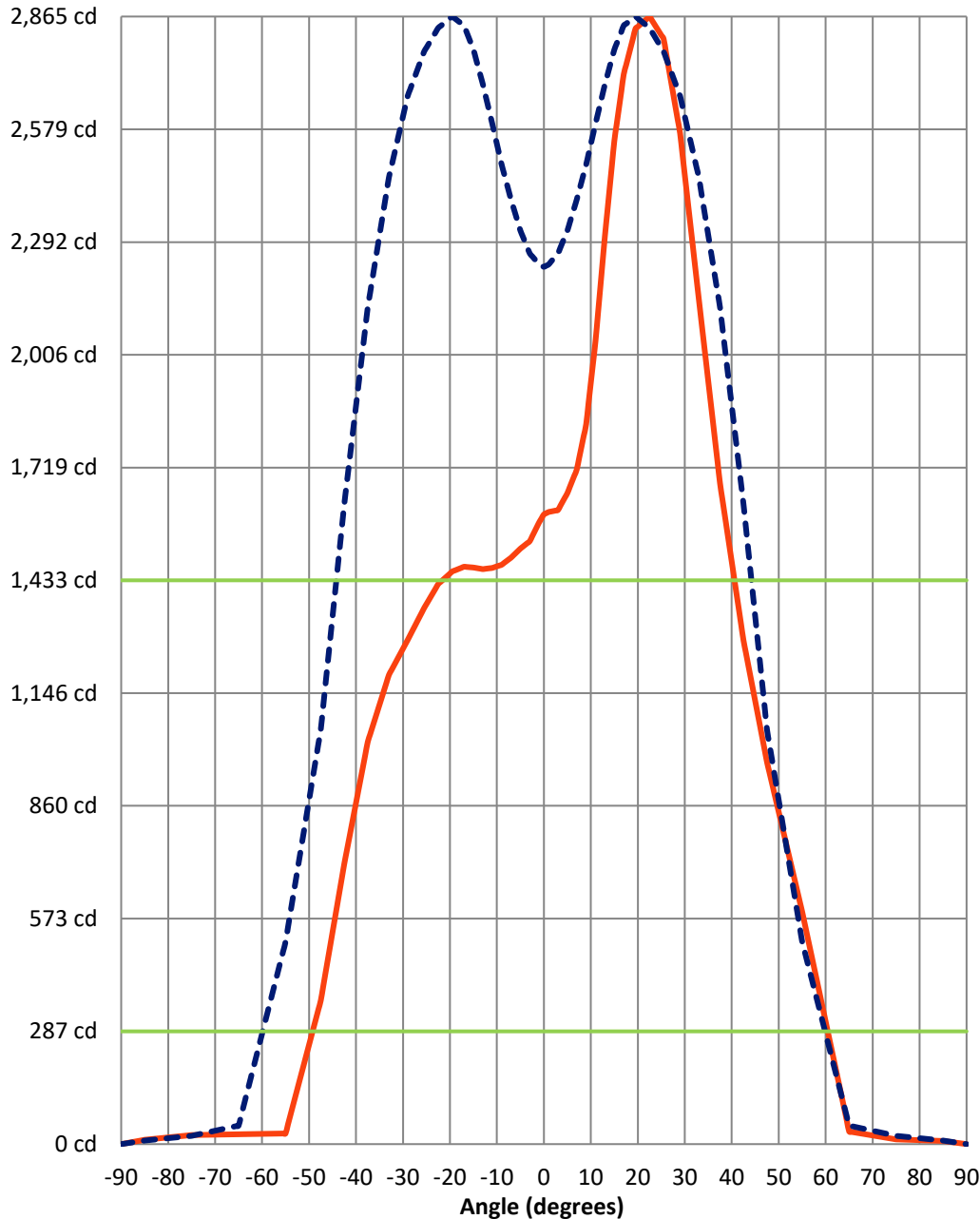
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 88.4°
 V Angle: 62.2°
 Lumens: 2532.8
 Efficiency: 60.6%

Field:
 H Angle: 119.7°
 V Angle: 109.7°
 Lumens: 4013.2
 Efficiency: 96.1%

Spill:
 Lumens: 164.1
 Efficiency: 3.9%

— Vertical Distribution through 19.5-Deg
 - - - Horizontal Distribution through 22.5-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	2	5	7	8	8	8	8	8	8
75°	8	9	12	11	7	6	8	9	10	11	12
65°	36	36	46	51	51	48	40	37	30	27	32
55°	631	627	624	626	625	629	645	655	640	608	590
47.5°	1057	1045	1038	1041	1018	1001	998	998	993	984	971
42.5°	1413	1403	1367	1343	1327	1326	1323	1322	1307	1283	1280
37.5°	1551	1556	1589	1632	1650	1659	1670	1685	1693	1692	1679
33°	1825	1825	1861	1939	2005	2047	2075	2098	2117	2133	2146
29°	2127	2127	2161	2233	2318	2403	2471	2522	2557	2572	2568
25.5°	2276	2280	2314	2382	2466	2561	2658	2732	2788	2813	2808
22.5°	2229	2235	2263	2321	2400	2489	2593	2693	2781	2842	2865
19.5°	2173	2178	2203	2250	2316	2393	2487	2592	2692	2777	2834
17°	2103	2109	2132	2173	2232	2304	2379	2461	2553	2641	2718
15°	1992	2000	2027	2059	2102	2160	2217	2281	2364	2455	2549
13°	1825	1834	1858	1881	1914	1966	2007	2052	2120	2207	2308
11°	1655	1665	1685	1701	1722	1757	1780	1812	1865	1940	2041
9°	1530	1535	1550	1563	1579	1609	1623	1644	1682	1737	1829
7°	1475	1480	1496	1509	1520	1546	1556	1569	1601	1638	1714
5°	1449	1452	1473	1481	1493	1518	1526	1535	1558	1586	1654
3°	1433	1436	1451	1462	1477	1496	1500	1510	1525	1548	1611
1°	1420	1421	1430	1442	1455	1469	1476	1486	1499	1534	1606
0°	1416	1417	1424	1434	1445	1457	1465	1475	1488	1527	1600
-1°	1413	1414	1420	1430	1439	1448	1456	1467	1479	1516	1580
-3°	1411	1411	1416	1423	1432	1438	1445	1455	1466	1488	1532
-5°	1408	1408	1412	1419	1427	1434	1442	1453	1465	1480	1513
-7°	1406	1406	1412	1418	1428	1435	1443	1454	1463	1470	1490
-9°	1411	1412	1417	1423	1432	1438	1445	1453	1460	1463	1472
-11°	1417	1417	1422	1429	1435	1441	1447	1456	1462	1462	1464
-13°	1422	1423	1426	1430	1438	1448	1456	1465	1469	1464	1461
-15°	1441	1440	1442	1446	1455	1467	1473	1477	1477	1471	1465
-17°	1474	1473	1475	1477	1485	1494	1500	1502	1495	1482	1467
-19.5°	1482	1483	1486	1487	1492	1497	1502	1503	1496	1481	1455
-22.5°	1477	1477	1475	1473	1475	1475	1477	1476	1468	1455	1423
-25.5°	1427	1425	1423	1418	1418	1412	1412	1410	1403	1389	1362
-29°	1340	1338	1336	1331	1327	1319	1320	1319	1313	1301	1281
-33°	1236	1234	1233	1231	1226	1216	1211	1212	1209	1205	1192
-37.5°	1027	1024	1026	1030	1021	1011	1014	1016	1019	1024	1022
-42.5°	724	721	719	727	715	707	706	706	704	714	712
-47.5°	394	388	386	395	372	372	366	242	241	378	365
-55°	38	37	39	40	37	33	29	27	26	27	27
-65°	22	22	22	23	24	24	24	24	25	26	25
-75°	24	24	24	23	24	27	30	30	28	25	23
-85°	0	1	3	8	11	13	13	12	12	11	11
-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°	8	8	8	8	8	8	8	8	8	9	9
75°	13	13	13	12	13	11	10	10	12	10	9
65°	36	34	32	32	35	31	31	18	19	13	9
55°	561	537	497	438	320	280	170	44	25	18	9
47.5°	949	912	867	804	696	575	423	77	28	22	9
42.5°	1266	1237	1199	1125	994	786	589	148	30	22	9
37.5°	1676	1663	1603	1498	1323	1016	742	214	31	22	9
33°	2147	2125	2042	1884	1658	1264	878	378	36	22	9
29°	2546	2515	2416	2202	1915	1454	973	436	40	21	9
25.5°	2775	2729	2610	2380	2062	1567	1020	479	43	21	9
22.5°	2836	2776	2663	2456	2126	1626	1054	514	47	21	9
19.5°	2826	2772	2670	2491	2177	1680	1094	422	52	21	9
17°	2738	2707	2624	2477	2193	1698	1119	433	55	21	9
15°	2596	2577	2499	2371	2132	1674	1132	440	58	21	9
13°	2371	2380	2303	2214	2021	1621	1137	448	59	21	9
11°	2120	2157	2098	2037	1877	1548	1128	454	60	20	9
9°	1912	1962	1911	1845	1735	1476	1116	460	62	20	8
7°	1802	1855	1817	1750	1642	1427	1108	465	64	20	8
5°	1741	1791	1763	1684	1589	1403	1106	468	66	20	8
3°	1699	1747	1729	1637	1552	1384	1105	469	67	20	8
1°	1665	1714	1699	1596	1517	1365	1100	467	67	19	8
0°	1651	1699	1684	1578	1502	1355	1097	632	68	20	8
-1°	1636	1683	1669	1560	1487	1344	1093	464	68	20	8
-3°	1600	1645	1639	1539	1460	1324	1080	460	67	19	8
-5°	1562	1609	1621	1537	1443	1306	1067	454	66	20	8
-7°	1528	1581	1612	1550	1435	1295	1057	447	64	20	8
-9°	1503	1561	1603	1559	1427	1284	1047	441	61	20	8
-11°	1490	1547	1596	1562	1417	1276	1040	433	60	21	8
-13°	1481	1532	1586	1559	1414	1269	1032	426	58	20	8
-15°	1474	1511	1560	1543	1411	1263	1031	418	57	19	8
-17°	1461	1482	1522	1505	1396	1255	1034	409	55	18	8
-19.5°	1427	1432	1463	1441	1355	1227	1015	390	52	17	8
-22.5°	1380	1370	1382	1364	1294	1167	960	351	46	15	8
-25.5°	1325	1302	1292	1271	1208	1077	865	207	41	14	8
-29°	1254	1220	1191	1170	1115	972	747	182	34	14	8
-33°	1163	1127	1093	1065	1009	859	614	147	27	13	8
-37.5°	993	964	929	887	817	676	449	106	20	12	9
-42.5°	693	676	647	613	546	344	219	69	18	11	9
-47.5°	241	304	247	236	230	179	125	42	16	11	9
-55°	31	33	40	41	40	36	34	32	14	10	9
-65°	25	25	24	23	25	27	24	25	12	9	9
-75°	21	21	24	25	23	22	17	14	10	9	9
-85°	11	10	10	10	10	10	9	9	9	9	9
-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)