

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: LUMARK

Report Number: P27505

Luminaire Tested: **XTOR4B-FLD-KNC**

Test Date: 03/07/16

**Test Information**

Test Method: LM-79-08  
Report Number: P27505  
Test Lab: INNOVATION CENTER-P2  
Test Date: 03/07/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: XTOR4B-FLD-KNC  
Description: CROSSTOUR 41W FLOOD LED WITH BRONZE HOUSING AND VISOR  
Light Source: (1) 5000K CITIZEN LED  
CLL038-1208C4-50AL7K3  
Ballast/Driver: (1) ERP ELECTRONIC DRIVER  
ESP040W-0940-43-CPLV

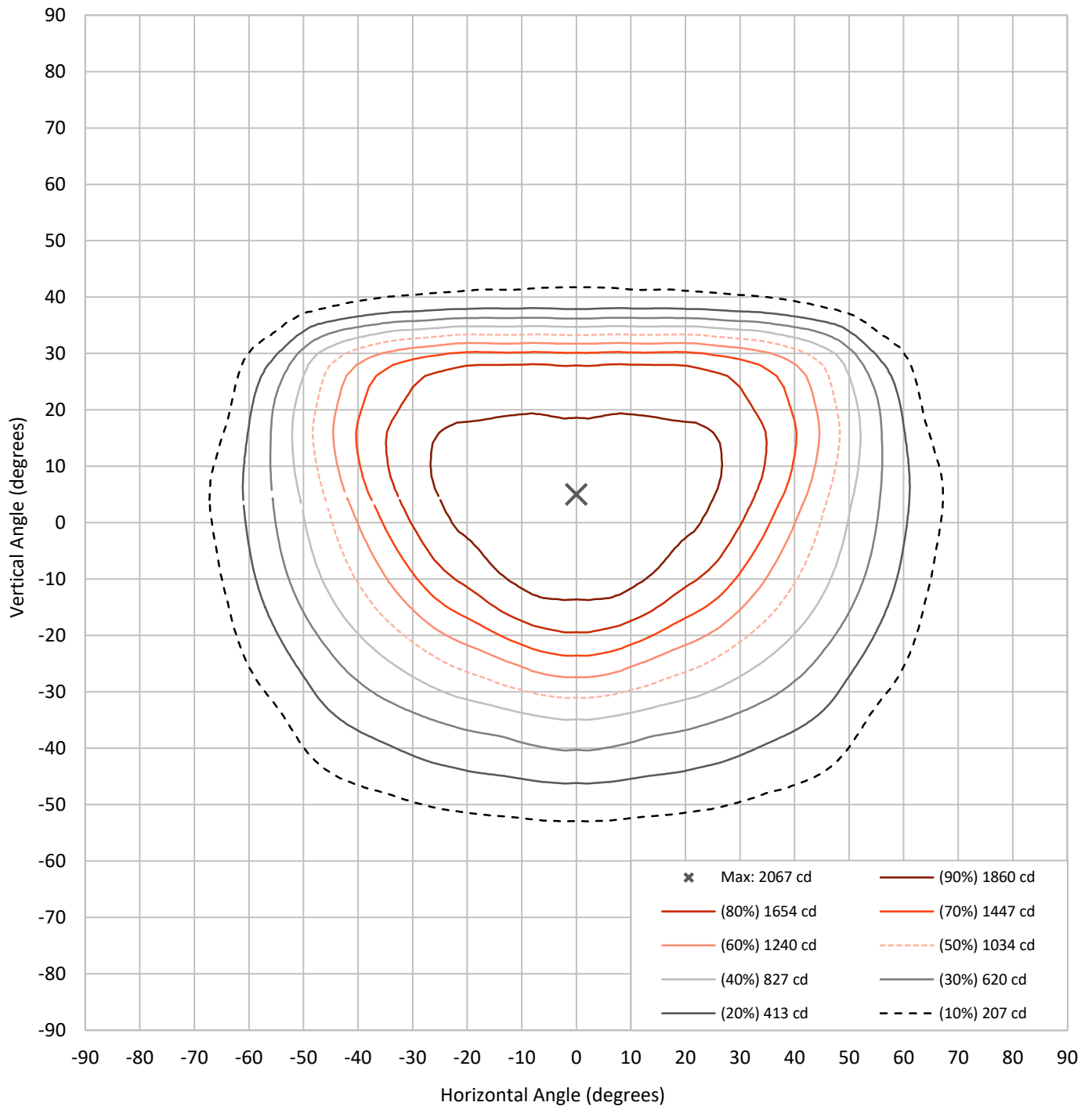
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 5V
Luminaire Lumens:	3168.3 lumens	Max Intensity:	2067 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	84.0 lumens/watt		
Luminous Opening:	(L: 0' x W: 0.56' x H: 0.21')		
Beam Angle (50%):	92.5°H x 64.3°V	Field Angle (10%):	134.5°H x 94.7°V
Beam Lumens:	2292.4 lumens	Field Lumens:	3043.3 lumens
Beam Efficiency:	72.4%	Field Efficiency:	96.1%
Input Watts (W):	37.7		
Input Voltage (V):	120.1		
Input Current (A <sub>in</sub> ):	0.320		
Voltage Rise (V):	NR		
Power Factor:	0.9879		
Total Harmonic Distortion (THDi):	13.6%		
Frequency (hertz):	60		
Stabilization Time:	0.5 HR		
Operation Time:	24 HR		
Ambient Temperature (°C):	25.0		
Test Distance:	25 FT		



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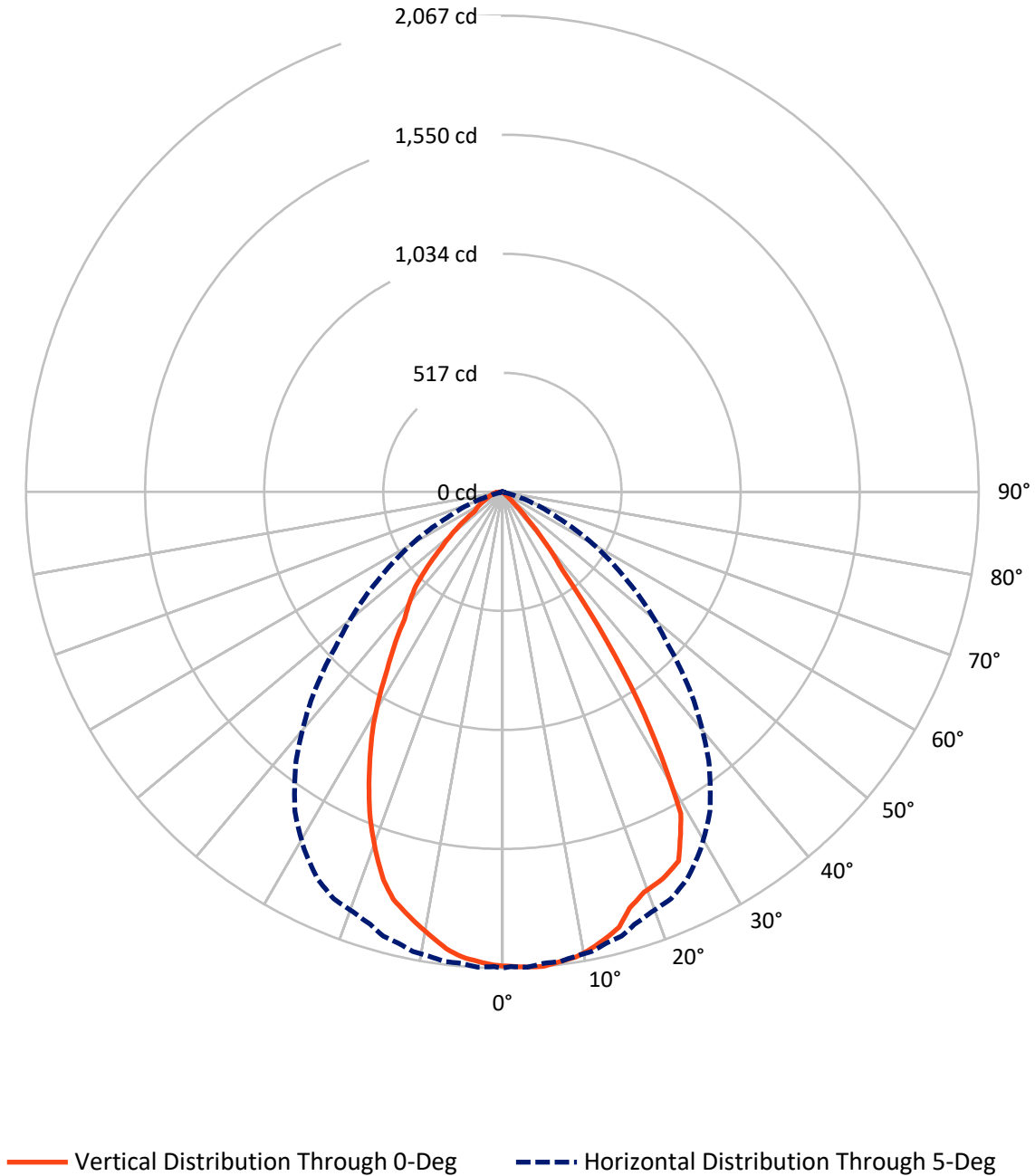
### Iso-Candela Plot





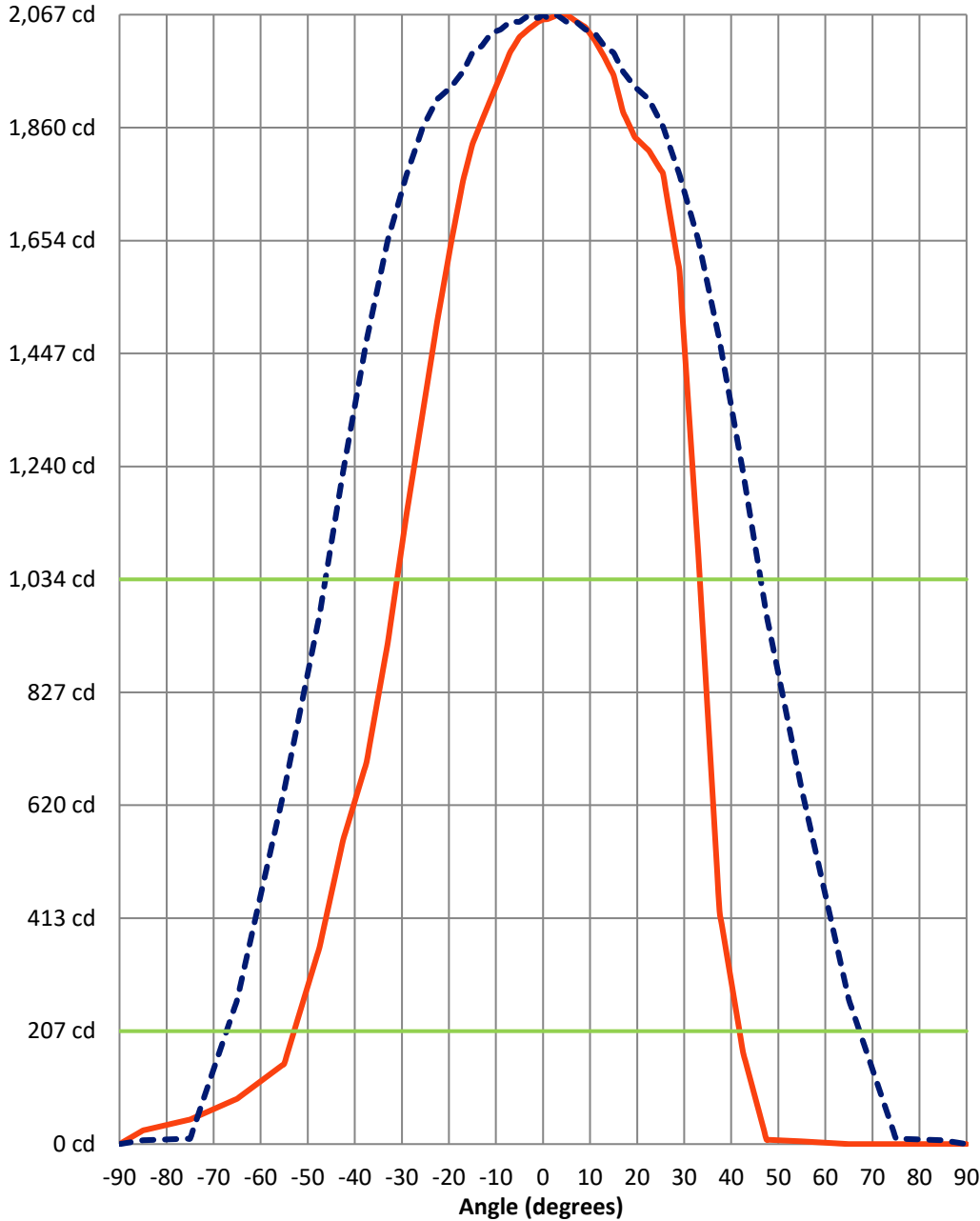
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 92.5°  
 V Angle: 64.3°  
 Lumens: 2292.4  
 Efficiency: 72.4%

**Field:**  
 H Angle: 134.5°  
 V Angle: 94.7°  
 Lumens: 3043.3  
 Efficiency: 96.1%

**Spill:**  
 Lumens: 125  
 Efficiency: 3.9%

— 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	1	2	3	3	4	4	5	5	5	5
75°	0	0	1	2	2	2	3	2	2	2	3
65°	0	0	1	1	1	2	2	2	2	2	2
55°	5	5	5	5	5	4	4	4	4	4	4
47.5°	8	8	8	8	8	7	7	7	7	7	7
42.5°	168	171	165	162	156	144	132	130	133	141	125
37.5°	427	423	433	439	448	445	442	442	447	445	433
33°	1079	1085	1078	1089	1100	1093	1084	1074	1083	1090	1099
29°	1597	1585	1597	1598	1615	1605	1600	1600	1604	1612	1610
25.5°	1776	1766	1776	1778	1796	1788	1790	1786	1773	1760	1755
22.5°	1818	1808	1816	1813	1826	1818	1815	1810	1801	1788	1786
19.5°	1843	1833	1843	1840	1855	1850	1847	1839	1833	1823	1821
17°	1889	1882	1896	1897	1915	1913	1916	1912	1905	1893	1884
15°	1956	1949	1961	1962	1978	1973	1977	1972	1965	1943	1928
13°	1990	1983	1992	1990	2006	2000	2002	1992	1984	1959	1941
11°	2020	2015	2026	2019	2026	2019	2022	2008	1998	1970	1950
9°	2044	2037	2042	2035	2041	2029	2027	2013	2002	1972	1949
7°	2055	2050	2058	2044	2047	2036	2032	2013	2002	1967	1944
5°	2067	2061	2066	2054	2054	2040	2033	2010	1997	1963	1935
3°	2066	2061	2065	2053	2055	2035	2027	2002	1985	1949	1920
1°	2059	2056	2061	2048	2049	2030	2019	1991	1970	1931	1933
0°	2058	2054	2060	2046	2048	2028	2016	1989	1965	1926	1923
-1°	2054	2049	2056	2044	2045	2025	2012	1983	1960	1919	1892
-3°	2041	2039	2046	2032	2030	2009	1996	1970	1946	1901	1865
-5°	2026	2023	2025	2011	2007	1987	1975	1948	1922	1873	1829
-7°	1998	1996	1998	1983	1984	1962	1947	1919	1889	1835	1787
-9°	1956	1957	1963	1955	1956	1932	1912	1880	1847	1789	1735
-11°	1915	1914	1924	1920	1924	1891	1868	1831	1794	1735	1677
-13°	1873	1875	1880	1874	1875	1838	1812	1770	1730	1671	1615
-15°	1830	1831	1828	1814	1810	1774	1740	1699	1656	1596	1536
-17°	1763	1773	1760	1743	1730	1695	1658	1617	1570	1512	1454
-19.5°	1651	1660	1646	1621	1610	1571	1539	1495	1446	1393	1342
-22.5°	1505	1514	1501	1479	1463	1421	1382	1342	1295	1254	1214
-25.5°	1342	1346	1342	1316	1304	1262	1218	1190	1155	1124	1083
-29°	1153	1159	1151	1133	1120	1081	1054	1038	995	963	929
-33°	917	927	916	901	888	867	845	823	799	785	765
-37.5°	699	706	702	689	679	667	654	635	621	610	595
-42.5°	556	562	557	552	542	530	518	500	492	482	470
-47.5°	360	367	360	359	351	341	329	321	314	307	294
-55°	147	148	147	147	144	140	136	135	134	132	129
-65°	83	84	83	82	80	79	79	77	75	74	73
-75°	45	45	45	44	46	45	45	44	44	44	43
-85°	25	25	26	27	28	29	30	30	30	30	29
-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°	5	5	5	5	5	6	6	7	7	7	7
75°	3	3	4	4	4	4	5	6	6	7	7
65°	2	2	2	3	3	4	4	5	6	7	7
55°	4	5	5	5	5	5	5	6	6	8	7
47.5°	7	7	7	7	7	7	7	7	7	8	7
42.5°	104	100	83	66	50	36	24	13	9	9	7
37.5°	434	413	385	374	328	269	212	64	11	9	7
33°	1085	1040	1000	972	872	760	603	231	19	9	7
29°	1583	1547	1505	1416	1310	1113	902	442	37	9	7
25.5°	1740	1708	1657	1570	1448	1247	980	564	65	9	7
22.5°	1779	1747	1693	1614	1489	1291	1017	626	96	10	7
19.5°	1819	1789	1733	1653	1529	1330	1055	658	132	10	7
17°	1875	1839	1778	1694	1565	1356	1079	667	166	10	7
15°	1914	1873	1806	1714	1576	1355	1079	669	192	10	7
13°	1926	1882	1807	1713	1568	1342	1064	669	214	10	7
11°	1933	1888	1810	1711	1557	1324	1045	667	234	10	7
9°	1932	1888	1805	1700	1539	1298	1023	663	250	10	7
7°	1925	1880	1793	1682	1511	1267	998	656	260	10	7
5°	1912	1862	1774	1654	1471	1230	968	648	264	10	7
3°	1894	1845	1750	1617	1426	1187	941	639	262	10	7
1°	1876	1823	1717	1578	1380	1148	920	629	255	10	7
0°	1866	1810	1701	1560	1358	1130	912	624	250	10	7
-1°	1856	1797	1680	1537	1338	1114	903	618	246	10	7
-3°	1824	1757	1639	1488	1291	1084	884	605	236	10	8
-5°	1782	1712	1592	1437	1247	1050	861	590	226	10	8
-7°	1735	1664	1539	1385	1202	1017	838	573	215	10	8
-9°	1681	1606	1483	1333	1154	984	812	553	204	11	8
-11°	1620	1546	1423	1278	1109	947	782	530	192	11	8
-13°	1551	1475	1356	1217	1062	909	750	504	179	11	8
-15°	1473	1399	1288	1157	1013	867	715	476	166	11	8
-17°	1393	1326	1217	1092	963	824	677	447	154	11	8
-19.5°	1290	1223	1120	1010	896	767	627	409	138	12	8
-22.5°	1164	1097	1007	918	815	699	567	363	118	12	8
-25.5°	1035	974	904	825	734	630	508	316	99	12	8
-29°	897	845	788	720	644	553	445	258	77	12	8
-33°	735	697	652	600	542	470	378	193	55	13	8
-37.5°	570	542	508	468	426	368	294	132	35	13	8
-42.5°	445	425	394	360	318	266	208	88	28	13	8
-47.5°	280	266	243	222	198	171	139	50	27	12	8
-55°	127	124	121	118	110	101	83	39	22	12	8
-65°	71	69	66	63	59	52	40	26	17	12	8
-75°	42	41	40	38	36	31	26	20	15	11	8
-85°	28	28	27	25	24	22	20	17	13	11	8
-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)