

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: P95427

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P95427  
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22787)  
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-SG  
Description: ARCHITECTURAL FLOOD LUMINAIRE  
VERTICAL ASYMMETRIC RECTANGULAR WITH SOFTENING GLASS 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:	4237.5 lumens	Max Intensity:	2594 candela
Efficiency:	N/A	Max Intensity Angle:	19.5°H x 22.5°V
Efficacy:	94.2 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	88.1°H x 67.9°V	Field Angle (10%):	126°H x 116.1°V
Beam Lumens:	2673.5 lumens	Field Lumens:	4046.5 lumens
Beam Efficiency:	63.1%	Field Efficiency:	95.5%

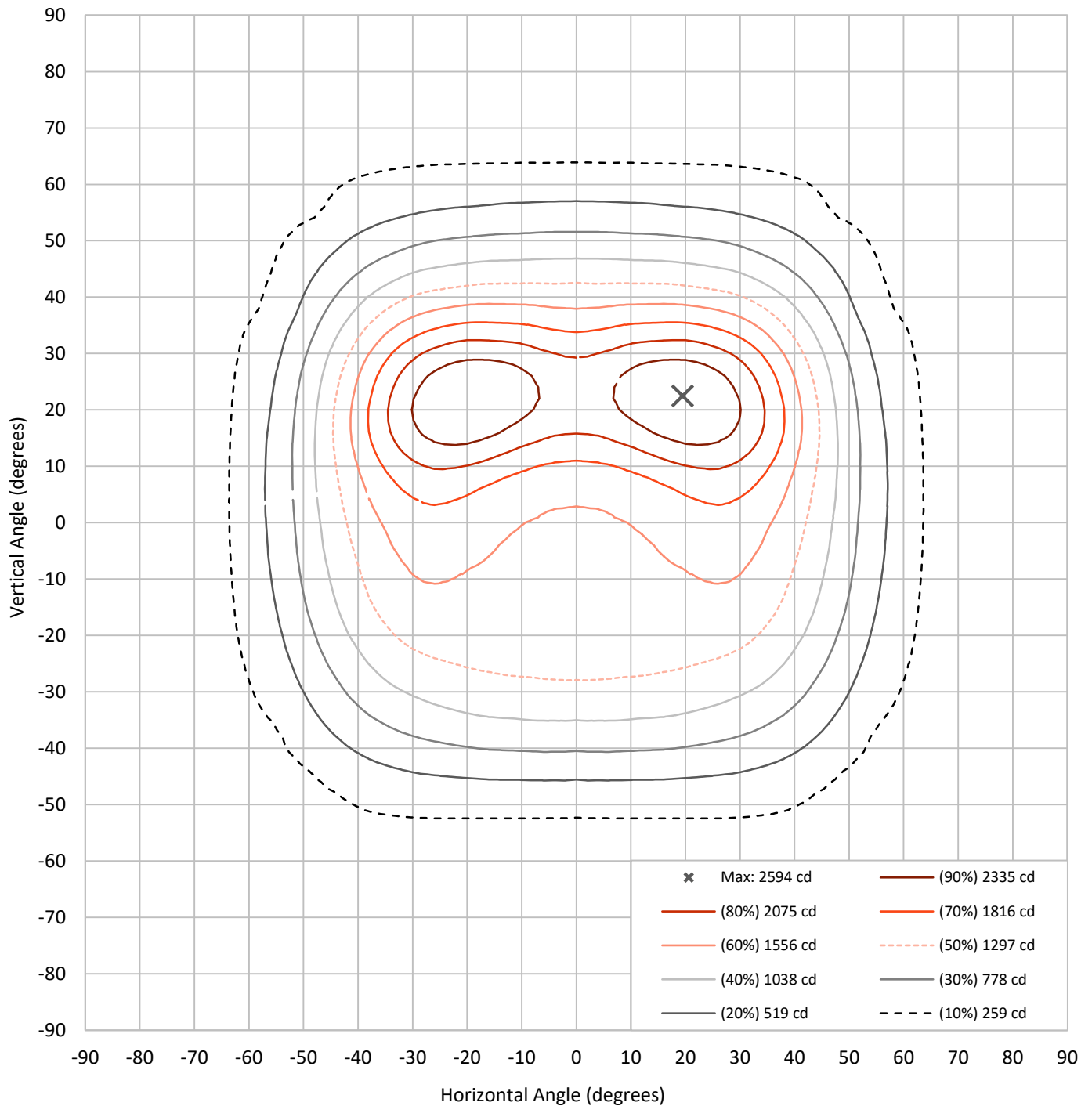
Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P95427

CATALOG NUMBER: VFS-K-B40-3-LED-E1-VAT-SG

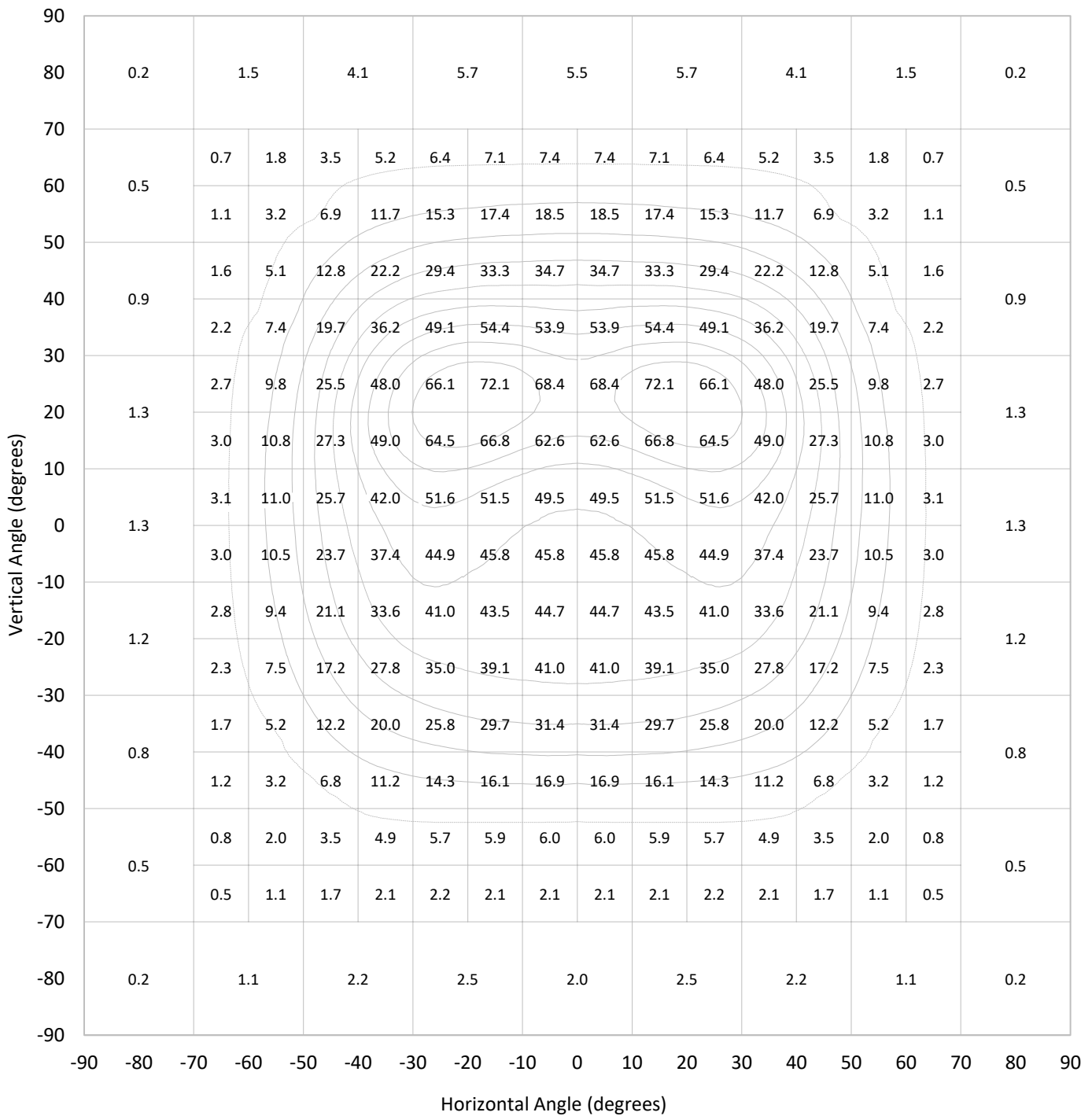
### Iso-Candela Plot





REPORT NUMBER: P95427  
 CATALOG NUMBER: VFS-K-B40-3-LED-E1-VAT-SG

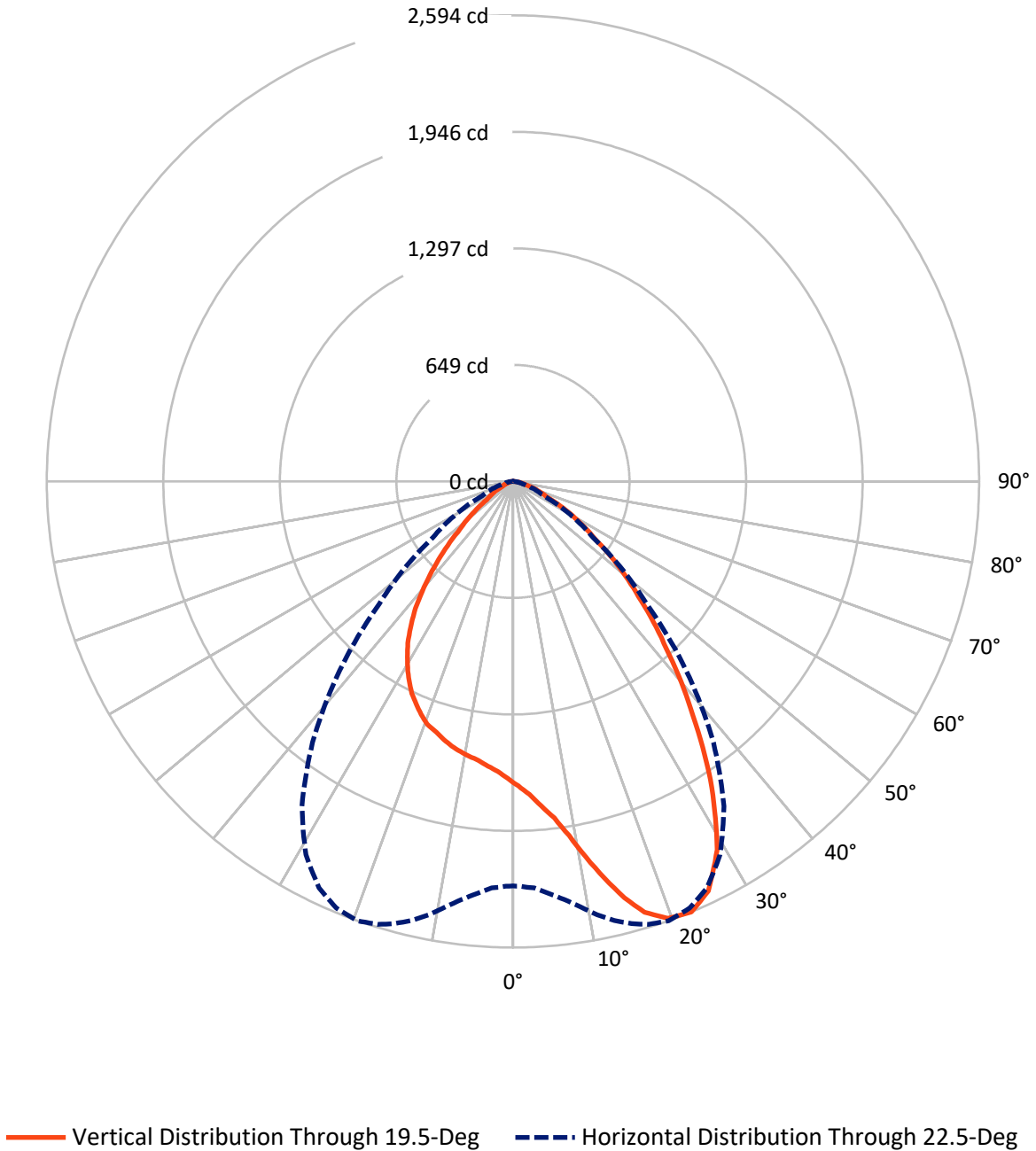
### Lumen Table



REPORT NUMBER: P95427

CATALOG NUMBER: VFS-K-B40-3-LED-E1-VAT-SG

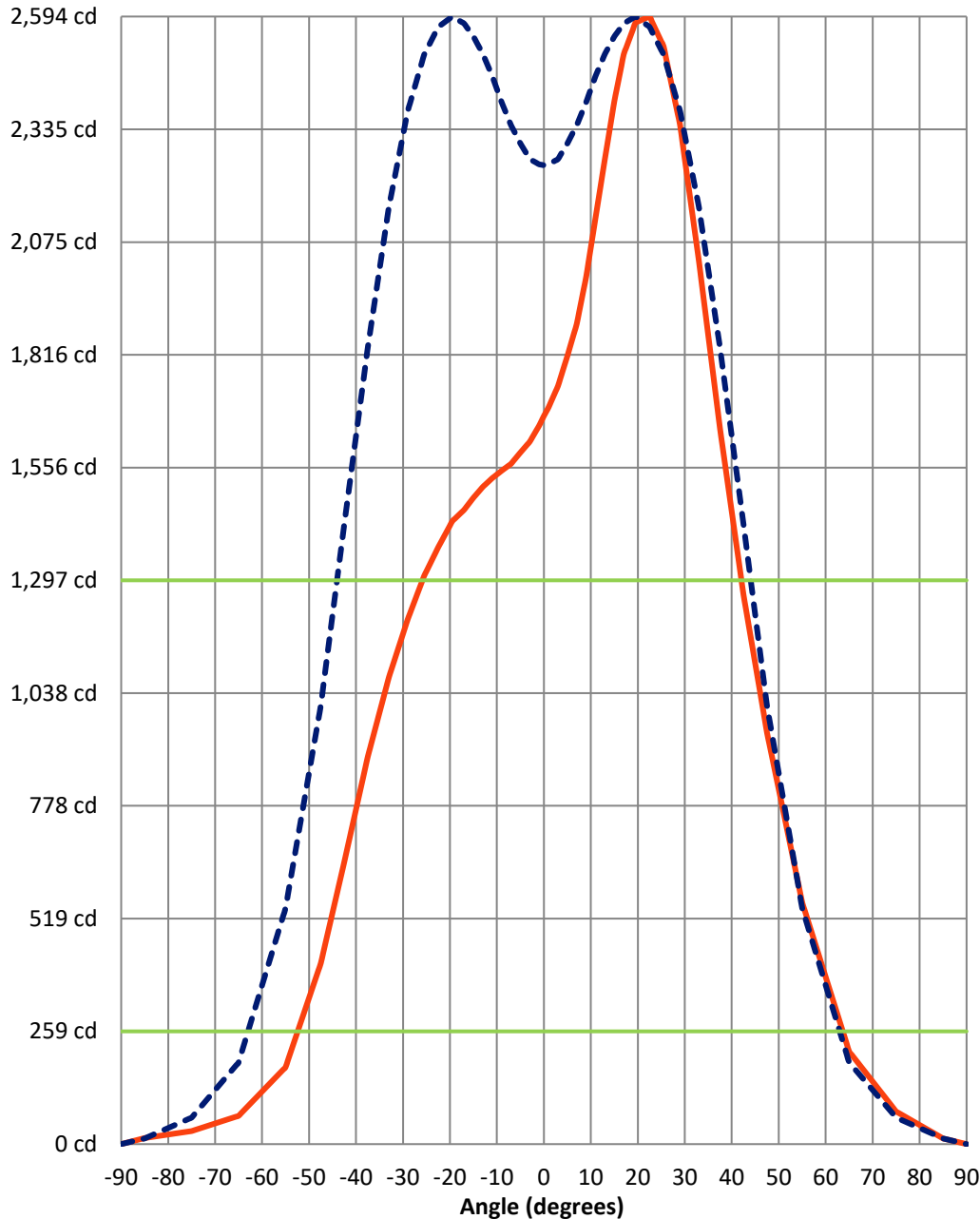
### Luminous Intensity Polar Plot



REPORT NUMBER: P95427

CATALOG NUMBER: VFS-K-B40-3-LED-E1-VAT-SG

### Luminous Intensity Plot



**Beam:**  
 H Angle: 88.1°  
 V Angle: 67.9°  
 Lumens: 2673.5  
 Efficiency: 63.1%

**Field:**  
 H Angle: 126°  
 V Angle: 116.1°  
 Lumens: 4046.5  
 Efficiency: 95.5%

**Spill:**  
 Lumens: 191  
 Efficiency: 4.5%

— Vertical Distribution through 19.5-Deg  
 - - - Horizontal Distribution through 22.5-Deg



REPORT NUMBER: P95427

CATALOG NUMBER: VFS-K-B40-3-LED-E1-VAT-SG

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	6	10	11	12	12	13	13	13
75°	69	68	68	68	69	69	70	72	73	74	75
65°	218	218	216	214	216	219	215	211	215	213	213
55°	596	593	595	592	590	582	582	580	570	562	556
47.5°	996	992	1000	992	994	981	978	975	973	964	947
42.5°	1301	1295	1291	1287	1294	1291	1289	1288	1286	1285	1264
37.5°	1581	1583	1594	1599	1625	1636	1644	1647	1650	1654	1646
33°	1866	1865	1885	1907	1940	1977	1999	2008	2018	2025	2032
29°	2100	2097	2120	2155	2189	2242	2283	2313	2339	2343	2344
25.5°	2221	2222	2236	2270	2324	2376	2438	2479	2506	2518	2525
22.5°	2252	2254	2266	2302	2344	2397	2457	2508	2548	2578	2594
19.5°	2196	2206	2218	2250	2304	2356	2408	2462	2511	2553	2580
17°	2133	2134	2143	2166	2214	2256	2305	2367	2420	2470	2507
15°	2037	2041	2046	2066	2106	2145	2193	2249	2304	2349	2399
13°	1927	1934	1930	1951	1995	2026	2065	2119	2168	2213	2267
11°	1805	1813	1818	1837	1864	1901	1938	1986	2032	2081	2131
9°	1724	1728	1730	1740	1763	1788	1827	1865	1909	1946	1995
7°	1648	1652	1652	1658	1682	1699	1729	1763	1797	1835	1887
5°	1591	1595	1602	1612	1631	1650	1671	1698	1736	1765	1813
3°	1554	1556	1558	1566	1581	1598	1623	1646	1665	1706	1744
1°	1531	1536	1534	1539	1556	1566	1588	1605	1624	1660	1695
0°	1521	1526	1526	1532	1545	1551	1570	1588	1606	1643	1675
-1°	1509	1512	1517	1524	1533	1541	1558	1576	1591	1622	1653
-3°	1502	1502	1504	1513	1520	1527	1539	1554	1569	1589	1616
-5°	1493	1495	1501	1506	1516	1520	1527	1541	1555	1574	1591
-7°	1493	1494	1498	1503	1504	1513	1521	1529	1539	1556	1565
-9°	1502	1503	1499	1502	1507	1513	1517	1522	1525	1536	1549
-11°	1487	1487	1487	1483	1490	1500	1504	1510	1514	1521	1532
-13°	1479	1483	1480	1481	1485	1489	1493	1498	1496	1500	1512
-15°	1467	1470	1475	1480	1484	1485	1484	1485	1481	1483	1487
-17°	1457	1462	1465	1466	1472	1465	1464	1470	1472	1465	1459
-19.5°	1447	1447	1446	1448	1449	1458	1451	1444	1438	1436	1433
-22.5°	1408	1408	1401	1406	1407	1408	1405	1399	1390	1384	1373
-25.5°	1356	1357	1353	1353	1348	1347	1344	1342	1329	1320	1307
-29°	1270	1274	1268	1269	1260	1254	1248	1240	1231	1222	1207
-33°	1122	1129	1127	1125	1125	1120	1107	1105	1102	1094	1074
-37.5°	934	939	935	940	938	934	928	920	914	907	891
-42.5°	673	681	680	685	679	675	672	671	669	667	649
-47.5°	420	428	428	424	430	427	422	423	424	419	416
-55°	168	171	169	170	172	172	173	174	172	176	177
-65°	57	58	57	59	58	59	59	59	61	62	65
-75°	21	21	21	21	22	23	25	26	28	29	30
-85°	2	2	5	10	14	15	15	15	15	15	14
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P95427

CATALOG NUMBER: VFS-K-B40-3-LED-E1-VAT-SG

**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°	13	12	13	13	13	12	11	12	12	11	10
75°	75	76	75	74	70	64	56	41	25	14	11
65°	211	211	206	199	188	169	143	97	49	22	12
55°	546	530	507	475	424	361	239	179	78	32	13
47.5°	930	907	868	801	706	582	448	251	107	38	13
42.5°	1237	1209	1167	1071	940	760	568	288	122	45	13
37.5°	1620	1579	1512	1392	1198	950	701	320	138	50	13
33°	2000	1938	1844	1692	1440	1126	819	430	157	54	14
29°	2310	2240	2126	1927	1641	1270	908	479	170	57	13
25.5°	2493	2423	2295	2078	1766	1367	970	518	181	59	14
22.5°	2570	2506	2376	2156	1832	1426	1009	543	188	61	13
19.5°	2569	2517	2400	2187	1873	1463	1042	562	193	62	14
17°	2505	2467	2363	2168	1867	1469	1056	575	196	63	13
15°	2415	2385	2297	2116	1842	1464	1063	586	198	64	13
13°	2286	2280	2203	2053	1797	1442	1067	593	201	64	13
11°	2156	2162	2104	1971	1745	1415	1065	594	203	64	13
9°	2031	2051	2007	1889	1692	1393	1054	598	205	64	13
7°	1931	1962	1914	1825	1640	1364	1048	602	204	65	13
5°	1851	1877	1855	1769	1595	1336	1042	600	204	65	13
3°	1788	1813	1793	1704	1556	1317	1030	598	206	65	13
1°	1733	1756	1745	1653	1524	1291	1014	595	206	65	13
0°	1706	1728	1723	1636	1505	1276	1008	591	205	65	13
-1°	1684	1707	1700	1620	1487	1265	1002	588	205	65	13
-3°	1642	1669	1664	1594	1461	1251	987	582	203	65	13
-5°	1617	1648	1636	1569	1435	1227	978	576	201	64	13
-7°	1592	1614	1607	1533	1407	1198	956	569	198	63	13
-9°	1562	1582	1578	1505	1376	1178	938	557	195	63	13
-11°	1548	1557	1545	1482	1350	1154	918	545	191	62	13
-13°	1521	1526	1514	1457	1319	1123	895	530	187	61	13
-15°	1492	1495	1483	1420	1289	1097	871	514	183	60	13
-17°	1461	1460	1442	1371	1251	1062	841	498	179	59	12
-19.5°	1424	1416	1390	1319	1198	1015	801	475	172	58	13
-22.5°	1360	1345	1312	1243	1123	953	753	443	163	56	12
-25.5°	1286	1261	1222	1156	1042	885	697	404	155	54	13
-29°	1179	1150	1109	1048	952	798	625	361	142	52	13
-33°	1049	1019	975	915	827	699	541	309	127	48	13
-37.5°	865	839	803	755	677	569	443	234	110	44	13
-42.5°	637	618	599	558	507	426	300	202	95	39	13
-47.5°	411	404	394	374	344	282	224	159	81	34	13
-55°	181	184	184	184	180	169	149	108	58	28	12
-65°	68	70	73	76	78	78	73	59	37	20	11
-75°	31	32	32	33	34	33	32	28	20	14	11
-85°	14	13	13	13	12	12	12	12	12	11	10
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P95427

CATALOG NUMBER: VFS-K-B40-3-LED-E1-VAT-SG

**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)