

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: P26558

Luminaire Tested: **LDWP-GL-6B-ED-7040**

Test Date: 08/10/15

Test Information

Test Method: LM-79-08
Report Number: P26558
Test Lab: INNOVATION CENTER-P2
Test Date: 08/10/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDWP-GL-6B-ED-7040
Description: LUMARK WALPAK GLASS 4LED 4000K
Light Source: (4) COB 4000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5827.6 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 0.38' x H: 0.42')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G4

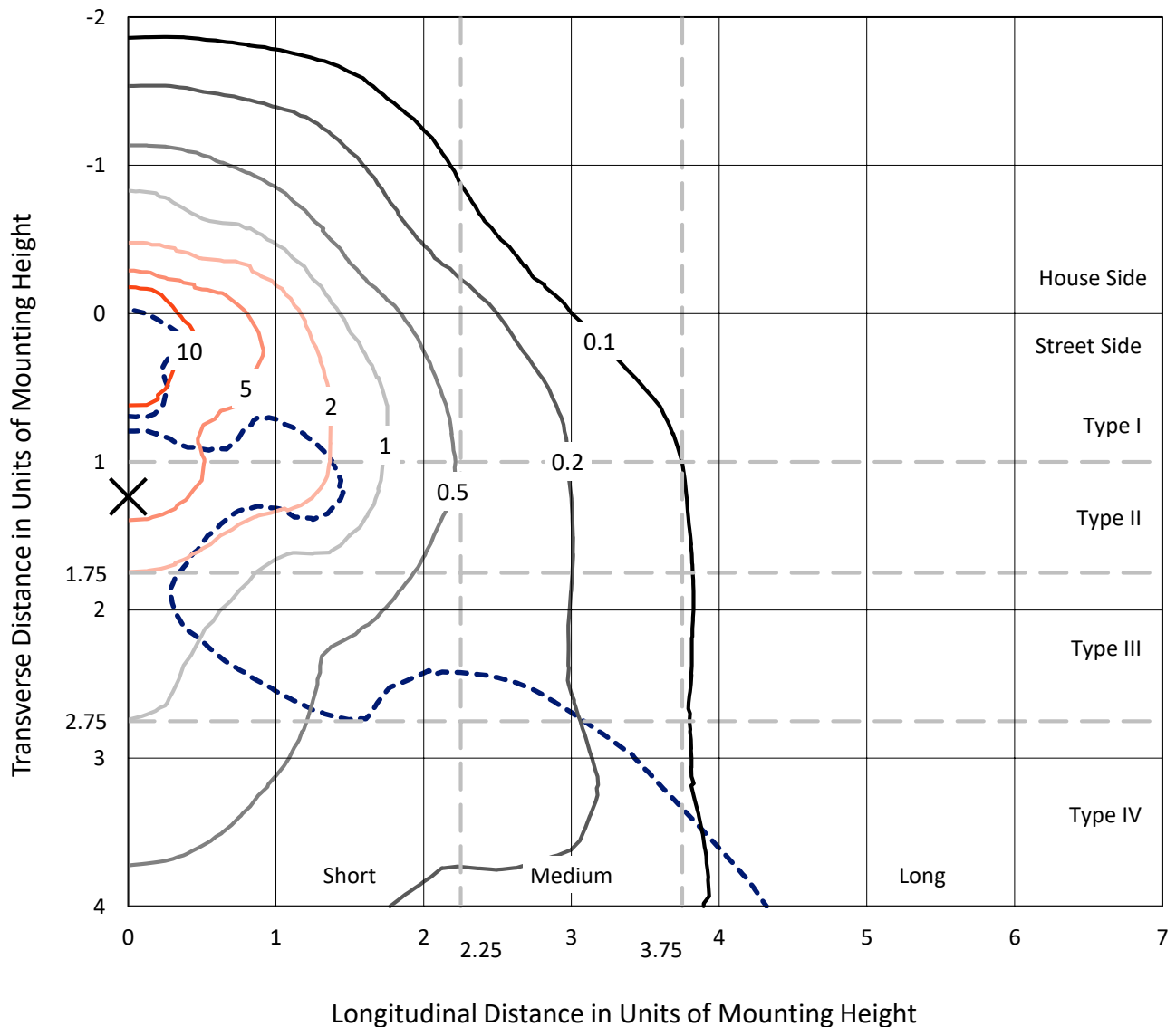
Input Watts (W): 46
Input Voltage (V): 120.02
Input Current (Ain): 0.38468
Voltage Rise (V): NR
Power Factor: 0.9984
Total Harmonic Distortion (THDi): 4.83%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): 25.2
Test Distance: 25 FT



REPORT NUMBER: P26558
 CATALOG NUMBER: LDWP-GL-6B-ED-7040

Iso-Footcandle Lines of Horizontal Illumination

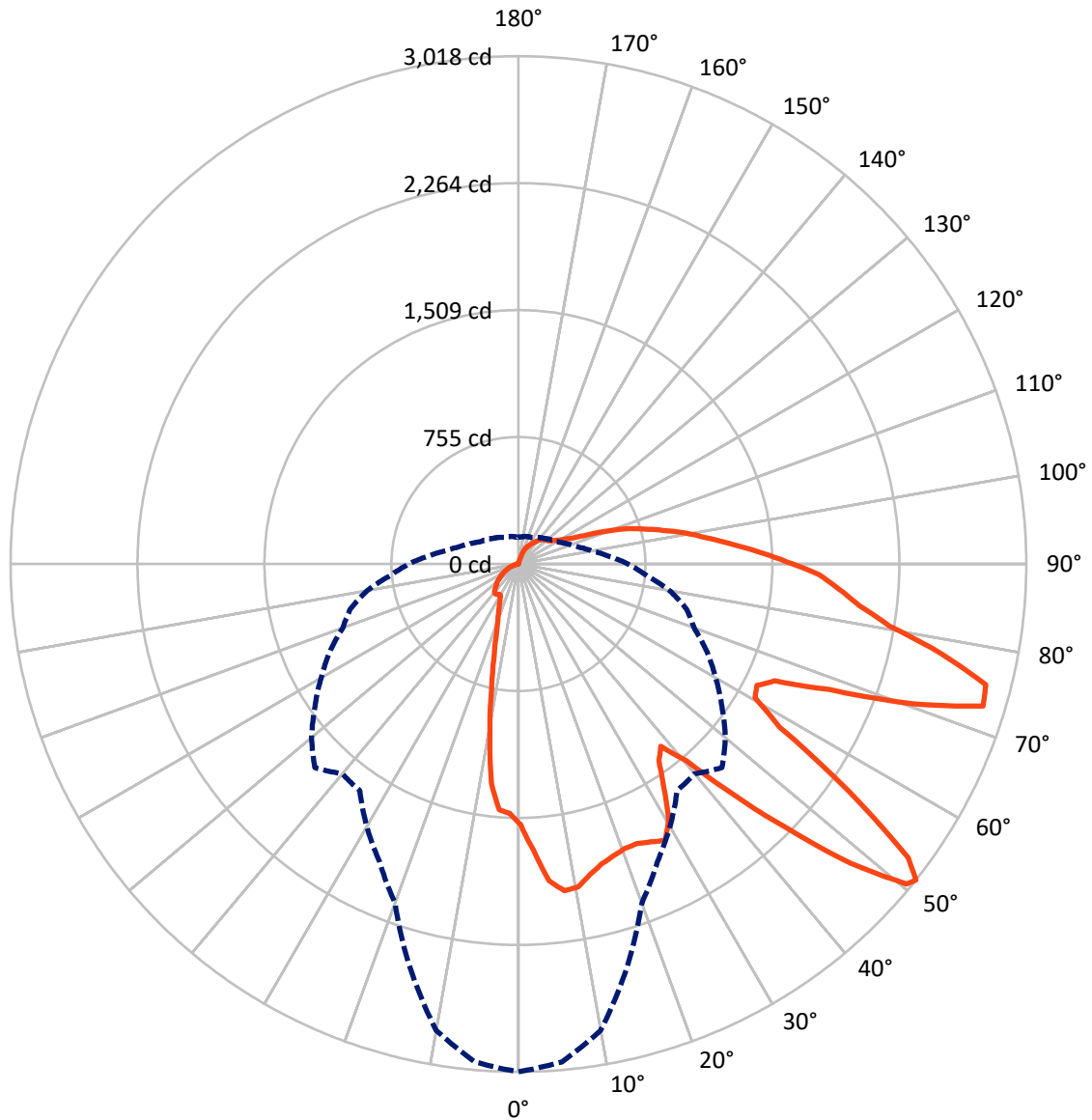
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P26558
CATALOG NUMBER: LDWP-GL-6B-ED-7040

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 51-Deg Vertical

REPORT NUMBER: P26558

CATALOG NUMBER: LDWP-GL-6B-ED-7040

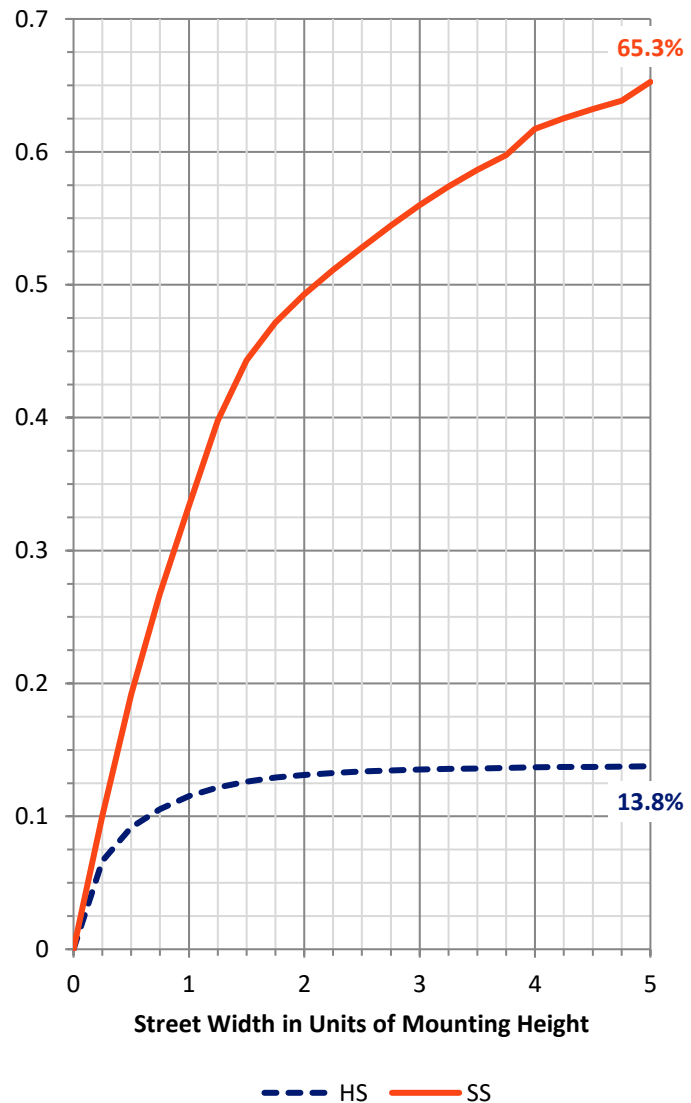
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.6	49.0	863.6
	% Fixture	14.0	0.8	14.8
Street Side	Lumens	4144.9	819.1	4964.0
	% Fixture	71.1	14.1	85.2
Total	Lumens	4959.5	868.1	5827.6
	% Fixture	85.1	14.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	2.6
10°-20°	361.2	6.2
20°-30°	456.1	7.8
30°-40°	536.6	9.2
40°-50°	698.9	12.0
50°-60°	781.8	13.4
60°-70°	640.0	11.0
70°-80°	786.6	13.5
80°-90°	547.1	9.4
90°-100°	337.2	5.8
100°-110°	215.4	3.7
110°-120°	126.1	2.2
120°-130°	85.1	1.5
130°-140°	57.7	1.0
140°-150°	31.4	0.5
150°-160°	12.4	0.2
160°-170°	2.2	0.0
170°-180°	0.4	0.0
0°-90°	4959.5	85.1
0°-180°	5827.6	100.0



REPORT NUMBER: P26558

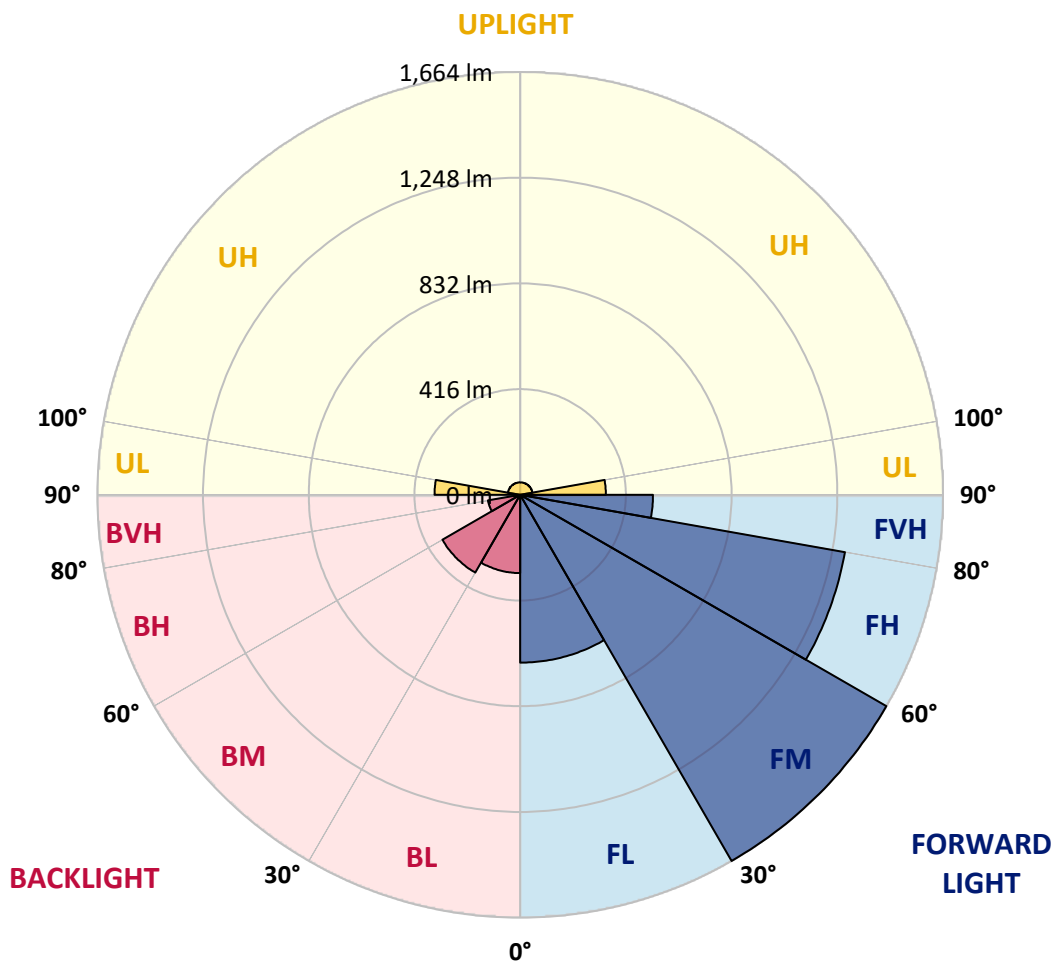
CATALOG NUMBER: LDWP-GL-6B-ED-7040

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.5	11.3			
FM	(30°-60°)	1664.0	28.6			
FH	(60°-80°)	1297.9	22.3			G1/1800
FVH	(80°-90°)	522.5	9.0			G4/750
BL	(0°-30°)	308.0	5.3	B1/500		
BM	(30°-60°)	353.3	6.1	B1/1000		
BH	(60°-80°)	128.6	2.2	B1/500		G1/500
BVH	(80°-90°)	24.6	0.4			G1/100
UL	(90°-100°)	337.2	5.8		U3/500	
UH	(100°-180°)	49.0	0.8		U2/50	

BUG Rating: B1-U4-G4

Type IV Short





REPORT NUMBER: P26558

CATALOG NUMBER: LDWP-GL-6B-ED-7040

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549
2.5°	1703	1697	1693	1699	1687	1683	1679	1675	1667	1657	1641
5°	1890	1875	1876	1880	1874	1869	1847	1837	1822	1800	1775
7.5°	1961	1953	1957	1962	1961	1958	1943	1931	1911	1882	1851
10°	1951	1944	1952	1962	1965	1966	1952	1936	1919	1887	1843
12.5°	1893	1887	1899	1910	1915	1920	1910	1897	1879	1833	1788
15°	1850	1837	1848	1859	1852	1847	1833	1812	1788	1759	1735
17.5°	1824	1805	1807	1800	1783	1764	1725	1697	1680	1670	1674
20°	1805	1782	1782	1763	1730	1679	1616	1578	1548	1552	1574
22.5°	1805	1781	1774	1745	1687	1609	1530	1476	1442	1447	1463
25°	1829	1809	1804	1766	1677	1578	1481	1416	1379	1364	1359
27.5°	1859	1839	1849	1801	1691	1566	1454	1378	1323	1294	1294
30°	1759	1754	1782	1761	1680	1553	1443	1348	1284	1243	1231
32.5°	1587	1588	1640	1628	1572	1494	1419	1339	1264	1211	1175
35°	1437	1436	1481	1481	1418	1372	1337	1299	1249	1193	1146
37.5°	1375	1370	1388	1355	1289	1239	1237	1228	1217	1187	1168
40°	1538	1519	1504	1399	1269	1209	1194	1198	1197	1191	1219
42.5°	1873	1839	1827	1658	1423	1299	1254	1226	1208	1232	1299
45°	2241	2215	2183	1969	1680	1481	1374	1305	1297	1323	1382
47.5°	2658	2604	2526	2256	1937	1712	1539	1449	1434	1466	1467
50°	2989	2944	2804	2463	2119	1915	1738	1593	1577	1654	1562
51°	3018	2970	2814	2486	2144	1953	1802	1644	1628	1711	1605
52.5°	2900	2868	2715	2410	2105	1946	1828	1697	1670	1799	1676
55°	2376	2399	2255	2047	1853	1744	1710	1690	1702	1856	1751
57.5°	1829	1843	1783	1654	1517	1421	1405	1533	1685	1842	1733
60°	1615	1607	1547	1428	1309	1163	1142	1285	1570	1694	1647
62.5°	1590	1556	1460	1317	1200	1071	1006	1089	1435	1482	1491
65°	1673	1626	1488	1317	1172	1040	954	978	1239	1262	1254
67.5°	1991	1928	1735	1491	1287	1117	986	982	1092	1123	1099
70°	2493	2437	2166	1822	1561	1352	1175	1195	1153	1089	1058
72.5°	2888	2817	2524	2143	1857	1631	1488	1569	1508	1270	1124
75°	2869	2806	2556	2236	1986	1818	1728	1968	2048	1677	1269
77.5°	2574	2513	2302	2083	1892	1772	1712	2066	2302	1978	1351
80°	2236	2173	2001	1843	1667	1548	1473	1720	1961	1785	1246
82.5°	2043	1973	1805	1641	1431	1295	1200	1285	1392	1323	1007
85°	1912	1846	1680	1471	1270	1109	1020	1054	1059	968	813
87.5°	1786	1718	1527	1303	1123	971	898	925	892	799	701
90°	1592	1535	1346	1147	987	858	797	818	781	704	622
92.5°	1423	1367	1205	1025	879	770	722	730	706	639	574
95°	1262	1210	1071	927	793	699	668	662	642	584	548
97.5°	1124	1081	965	839	721	638	607	602	575	533	521
100°	1010	969	865	750	654	580	553	541	515	489	487
102.5°	886	851	760	659	581	523	495	473	454	449	449
105°	776	746	666	578	516	463	428	410	401	411	417
107.5°	681	651	578	501	447	394	361	355	359	375	382



REPORT NUMBER: P26558

CATALOG NUMBER: LDWP-GL-6B-ED-7040

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	559	535	478	416	371	330	308	310	324	346	343
112.5°	437	424	387	341	311	286	273	280	295	318	305
115°	359	350	327	297	277	260	250	256	268	287	269
117.5°	312	307	292	271	256	243	233	236	251	259	248
120°	280	276	266	251	239	228	221	220	234	238	239
122.5°	257	254	249	239	228	218	210	210	220	231	225
125°	238	235	233	226	214	206	201	202	212	225	214
127.5°	223	220	218	213	204	199	196	197	205	218	210
130°	219	216	213	207	198	194	190	191	195	207	200
132.5°	211	209	206	201	193	187	183	182	184	189	184
135°	205	202	196	192	185	178	174	172	172	171	166
137.5°	193	192	188	183	176	171	167	162	158	153	146
140°	179	178	176	175	168	163	156	149	142	135	128
142.5°	164	163	163	161	156	150	143	136	128	120	111
145°	150	149	148	145	141	135	130	122	113	105	95
147.5°	137	137	135	131	126	122	116	108	99	90	77
150°	125	124	123	119	114	108	102	94	85	73	59
152.5°	113	113	111	107	103	97	91	80	67	56	43
155°	101	100	100	96	90	83	75	62	51	40	27
157.5°	84	84	82	78	71	63	55	44	33	23	15
160°	61	58	57	53	47	40	33	24	16	12	8
162.5°	32	31	30	27	22	17	14	11	8	6	4
165°	10	10	10	10	9	8	6	4	3	3	3
167.5°	3	3	3	4	3	2	2	2	3	3	3
170°	0	1	1	2	2	2	2	2	3	3	3
172.5°	0	1	1	2	2	2	2	2	3	3	3
175°	0	1	1	2	2	2	2	2	3	3	3
177.5°	0	1	1	2	2	2	2	2	3	3	3
180°	4	4	4	4	4	4	4	4	4	4	4



REPORT NUMBER: P26558

CATALOG NUMBER: LDWP-GL-6B-ED-7040

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549
2.5°	1633	1618	1610	1597	1584	1571	1560	1548	1535	1524	1519
5°	1750	1715	1686	1649	1617	1585	1563	1541	1517	1503	1495
7.5°	1816	1766	1721	1669	1609	1554	1511	1485	1455	1436	1432
10°	1797	1740	1682	1627	1558	1490	1432	1399	1368	1353	1355
12.5°	1742	1691	1633	1568	1504	1430	1370	1319	1283	1268	1272
15°	1703	1671	1622	1557	1481	1395	1321	1262	1220	1205	1198
17.5°	1671	1647	1595	1521	1438	1348	1263	1196	1156	1141	1121
20°	1597	1591	1539	1474	1389	1288	1199	1130	1092	1068	1029
22.5°	1483	1502	1483	1430	1355	1249	1154	1083	1046	1010	945
25°	1381	1405	1420	1381	1310	1203	1106	1038	998	947	862
27.5°	1294	1314	1334	1327	1270	1182	1087	1015	973	902	796
30°	1221	1228	1276	1312	1280	1200	1107	1028	983	904	773
32.5°	1162	1196	1265	1325	1320	1240	1145	1071	1014	915	762
35°	1142	1183	1260	1344	1350	1265	1172	1094	1018	895	732
37.5°	1164	1192	1255	1347	1361	1280	1174	1078	982	829	677
40°	1225	1218	1262	1343	1356	1277	1149	1033	903	737	590
42.5°	1294	1266	1284	1328	1335	1239	1098	976	820	652	527
45°	1382	1329	1297	1298	1295	1181	1028	896	744	593	483
47.5°	1441	1367	1272	1217	1189	1075	925	796	655	530	448
50°	1465	1364	1239	1135	1073	959	809	691	572	470	399
51°	1476	1354	1237	1111	1034	913	760	650	538	444	380
52.5°	1503	1342	1233	1091	986	849	695	592	491	407	354
55°	1509	1324	1219	1070	931	766	621	524	432	361	316
57.5°	1520	1298	1194	1059	890	708	579	484	393	326	284
60°	1453	1222	1125	1015	830	663	556	471	378	300	254
62.5°	1320	1119	1027	934	760	635	538	452	364	280	232
65°	1156	1045	950	848	715	603	517	433	331	250	216
67.5°	1030	1006	925	788	704	587	482	402	295	227	195
70°	1002	982	903	752	689	578	453	355	251	208	175
72.5°	1040	952	841	733	664	554	419	294	217	176	159
75°	1077	937	810	721	649	547	382	241	192	150	144
77.5°	1073	916	815	711	629	533	339	209	151	130	131
80°	958	835	771	676	606	478	294	187	126	115	121
82.5°	780	723	670	617	576	394	245	144	102	103	109
85°	636	639	582	522	498	331	204	106	87	89	96
87.5°	570	572	516	448	399	274	161	83	74	77	84
90°	536	526	464	392	310	216	110	68	65	67	71
92.5°	509	495	423	334	261	180	96	61	59	60	63
95°	486	465	385	283	224	130	80	58	56	55	57
97.5°	466	430	339	251	197	120	73	57	54	52	54
100°	437	400	296	233	164	108	74	58	52	51	52
102.5°	411	359	266	220	148	104	75	58	51	49	49
105°	373	314	252	194	140	102	76	58	51	48	47
107.5°	333	278	239	176	137	104	74	57	50	46	45



REPORT NUMBER: P26558

CATALOG NUMBER: LDWP-GL-6B-ED-7040

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
110°	294	262	217	165	135	103	71	55	49	45	43
112.5°	265	250	195	157	131	100	68	54	47	43	40
115°	253	223	180	153	127	94	65	53	45	40	37
117.5°	241	203	172	147	120	85	61	50	43	38	34
120°	218	190	166	140	109	76	56	46	40	34	31
122.5°	204	183	160	131	99	68	51	42	36	32	28
125°	198	177	152	122	89	62	47	38	33	29	26
127.5°	192	167	141	112	80	56	42	35	31	26	24
130°	180	157	131	102	73	51	37	31	28	24	21
132.5°	167	145	120	91	64	43	32	28	25	22	19
135°	150	131	108	79	52	35	29	25	23	20	17
137.5°	134	116	93	64	42	31	26	23	21	18	15
140°	118	100	75	49	34	27	23	20	18	16	14
142.5°	101	82	60	39	28	23	20	18	16	14	12
145°	83	65	46	30	21	19	17	16	15	12	10
147.5°	64	48	31	21	17	16	15	14	13	11	9
150°	46	30	21	13	13	13	13	12	11	9	8
152.5°	30	19	13	10	10	11	11	10	9	8	7
155°	17	11	7	7	8	9	9	9	8	7	7
157.5°	10	6	5	5	6	7	8	8	8	7	7
160°	5	4	4	5	6	7	8	8	8	7	7
162.5°	4	4	4	5	6	7	8	8	8	7	7
165°	4	4	4	5	6	7	8	8	8	7	7
167.5°	4	4	4	5	6	7	8	8	8	7	7
170°	4	4	4	5	6	7	8	8	8	7	6
172.5°	4	4	4	5	6	7	8	8	8	7	6
175°	4	4	4	5	6	7	8	8	7	7	6
177.5°	4	4	4	5	6	7	8	8	7	7	6
180°	4	4	4	4	4	4	4	4	4	4	4



REPORT NUMBER: P26558

CATALOG NUMBER: LDWP-GL-6B-ED-7040

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549	1549
2.5°	1508	1504	1500	1494	1491	1490	1483	1484	1487	1485	1485
5°	1484	1487	1487	1490	1486	1486	1476	1473	1472	1469	1464
7.5°	1432	1440	1442	1443	1433	1431	1417	1396	1385	1359	1336
10°	1355	1361	1349	1339	1308	1275	1249	1200	1173	1125	1083
12.5°	1264	1243	1210	1175	1102	1057	1006	944	909	864	827
15°	1162	1114	1051	981	896	826	777	722	696	660	631
17.5°	1063	988	899	810	719	651	605	560	537	511	491
20°	948	851	753	665	586	525	480	445	424	409	398
22.5°	845	731	627	551	482	436	401	370	354	342	336
25°	750	631	530	462	407	372	347	325	309	299	292
27.5°	665	545	459	401	355	328	309	294	277	262	256
30°	617	490	406	356	321	298	280	263	249	235	227
32.5°	592	460	375	327	296	272	254	240	227	216	213
35°	565	444	362	313	277	253	238	221	213	207	209
37.5°	530	429	359	306	267	241	222	211	206	207	213
40°	489	412	352	302	266	232	213	204	206	212	217
42.5°	445	387	336	296	264	228	208	204	209	214	219
45°	412	358	312	280	251	224	209	204	206	211	212
47.5°	380	329	290	262	240	221	208	201	200	198	193
50°	347	304	271	250	233	217	205	196	187	180	177
51°	334	295	264	246	231	215	204	193	182	175	172
52.5°	314	280	254	239	226	212	201	187	174	169	163
55°	283	257	241	227	216	205	190	176	165	155	146
57.5°	253	237	224	213	203	193	179	166	152	141	132
60°	230	216	208	199	191	181	170	152	138	129	122
62.5°	212	199	193	185	175	170	157	139	127	116	107
65°	193	185	181	171	160	155	141	126	113	99	89
67.5°	179	174	168	157	145	136	125	110	96	82	74
70°	166	164	155	143	128	118	108	92	79	66	60
72.5°	154	152	141	126	111	100	90	75	62	52	47
75°	142	139	126	110	94	82	71	59	48	38	33
77.5°	130	126	112	94	78	65	55	45	34	25	19
80°	119	112	99	82	64	50	40	29	19	10	6
82.5°	106	98	88	71	51	36	28	21	12	7	6
85°	92	85	77	61	43	31	24	17	10	6	5
87.5°	80	75	68	52	37	26	20	14	8	5	5
90°	69	65	58	44	32	23	17	12	7	5	5
92.5°	60	57	49	38	28	21	15	10	7	6	5
95°	54	50	41	34	25	19	14	9	6	5	5
97.5°	50	44	36	30	23	17	13	8	6	5	5
100°	48	41	33	27	21	16	11	7	5	5	5
102.5°	45	39	30	25	20	15	10	7	5	5	5
105°	43	36	28	24	18	13	9	6	5	5	4
107.5°	40	33	26	22	17	12	8	5	5	4	4



REPORT NUMBER: P26558
 CATALOG NUMBER: LDWP-GL-6B-ED-7040

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
110°	37	30	25	21	16	11	7	5	5	4	4	0°
112.5°	35	28	24	20	15	10	7	5	5	5	4	2.5°
115°	32	27	23	19	14	10	7	5	5	5	5	5°
117.5°	29	25	22	18	13	9	7	5	5	5	5	7.5°
120°	27	23	20	17	12	8	6	5	5	5	5	10°
122.5°	25	22	18	15	11	8	6	5	5	5	5	12.5°
125°	23	20	17	13	10	7	6	5	5	5	5	15°
127.5°	21	18	15	12	9	7	6	5	5	5	5	17.5°
130°	19	16	13	10	8	6	6	5	5	5	5	20°
132.5°	17	14	12	10	8	7	6	5	5	5	5	22.5°
135°	15	12	10	9	7	6	6	5	5	5	5	25°
137.5°	13	11	9	8	7	6	6	5	5	5	5	27.5°
140°	11	10	8	7	7	6	6	5	5	5	5	30°
142.5°	10	8	7	7	7	6	6	5	5	5	5	32.5°
145°	9	8	7	7	7	7	6	5	5	5	5	35°
147.5°	8	7	7	7	7	7	6	5	5	5	5	37.5°
150°	7	7	7	7	7	6	6	5	5	5	5	40°
152.5°	7	7	7	7	7	7	6	5	5	5	5	42.5°
155°	7	7	7	7	7	6	6	5	5	5	4	45°
157.5°	7	7	7	7	7	6	6	5	5	5	5	47.5°
160°	7	7	7	7	7	6	6	5	5	5	4	50°
162.5°	6	7	7	7	7	6	6	5	5	4	4	51°
165°	6	6	7	7	7	6	6	5	4	4	4	52.5°
167.5°	6	7	7	7	7	6	5	5	4	4	4	55°
170°	6	6	7	7	7	6	5	5	4	4	4	57.5°
172.5°	6	6	7	7	6	6	5	5	4	4	4	60°
175°	6	6	7	7	6	6	5	5	4	4	4	62.5°
177.5°	6	6	7	7	6	6	5	4	4	4	4	65°
180°	4	4	4	4	4	4	4	4	4	4	4	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P26558
 NUMBER: LDWP-GL-6B-ED-7040

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
1549	1549	1549	1549
1486	1486	1488	1483
1467	1466	1461	1464
1327	1315	1296	1313
1063	1029	1010	1026
806	778	761	772
613	598	575	582
478	465	449	453
388	379	367	368
331	326	317	316
289	284	276	274
253	248	242	239
224	222	219	217
213	214	214	212
213	216	218	219
218	221	224	224
220	220	223	222
219	213	212	210
207	199	194	192
189	183	180	178
176	171	167	166
170	165	161	159
159	154	149	146
142	137	133	131
129	126	122	120
117	113	108	105
100	96	91	89
84	81	78	76
71	70	68	67
58	57	54	53
44	42	40	41
31	30	27	27
17	16	14	15
6	6	5	5
6	6	5	5
5	5	5	4
5	5	4	4
5	5	5	4
5	5	5	4
5	5	5	4
5	5	5	4
5	5	4	4
5	5	4	4
4	4	4	4
4	4	4	3
4	4	3	3

CANDELA DISTRIBUTION:

	165°
110°	4
112.5°	4
115°	5
117.5°	5
120°	5
122.5°	5
125°	5
127.5°	5
130°	4
132.5°	5
135°	4
137.5°	4
140°	5
142.5°	4
145°	5
147.5°	5
150°	4
152.5°	5
155°	4
157.5°	4
160°	4
162.5°	4
165°	4
167.5°	4
170°	4
172.5°	4
175°	3
177.5°	3
180°	4



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LDWP-GL-6B-ED-7040

TION (continued):

170°	175°	180°
4	3	3
4	3	3
4	4	4
5	4	4
5	4	4
5	4	4
5	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	4	3
4	3	3
4	3	3
4	3	3
4	3	3
4	3	3
3	3	2
3	3	2
3	2	2
4	4	4

(END OF REPORT)