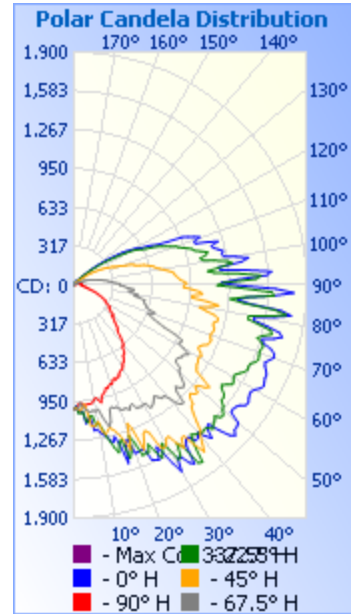


Photometrics Pro

Luminaire Photometric Report

Filename: IES_CWP40H150KPG1-120V
Manufacturer: Ningbo Vance Lighting Co.,Ltd
Luminaire: CWP40/H1/50K/P/G1
Lamp Output: 1 lamp, rated Lumens/lamp: 5308.7
Max Candela: 1,817.4 at Horizontal: 337.5Å°, Vertical: 36Å°
Input Wattage: 40.54
Luminous Opening: Point
Test Lab: Belling Test Laboratory Co., LTD
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	1,339.8	
Max Cd, 80 to <90 Deg:	1,800.2	
	Lumens	% Lamp
Downward Street Side:	3,690.9	69.5%
Downward House Side:	488.2	9.2%
Downward Total:	4,179.1	78.7%
Upward Street Side:	1,101.8	20.8%
Upward House Side:	27.9	0.5%
Upward Total:	1,129.7	21.3%
Total Lumens:	5,308.8	100%

Zonal Lumen Summary

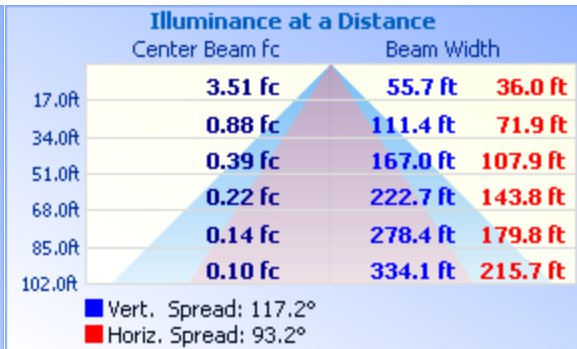
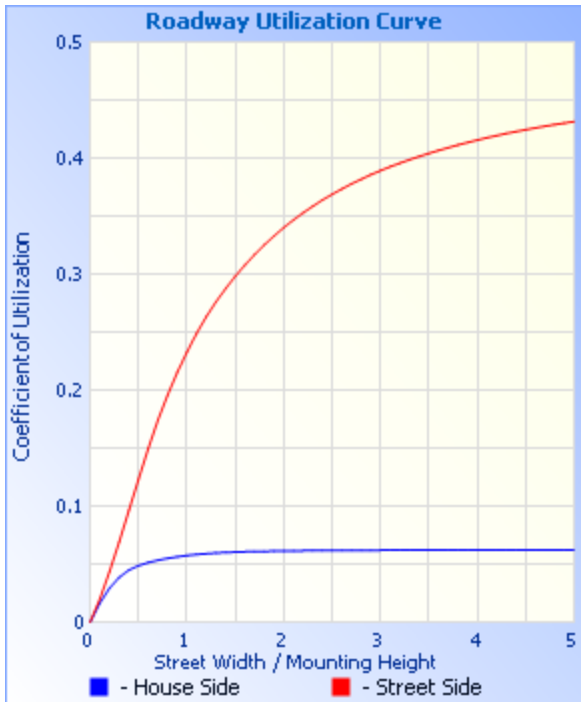
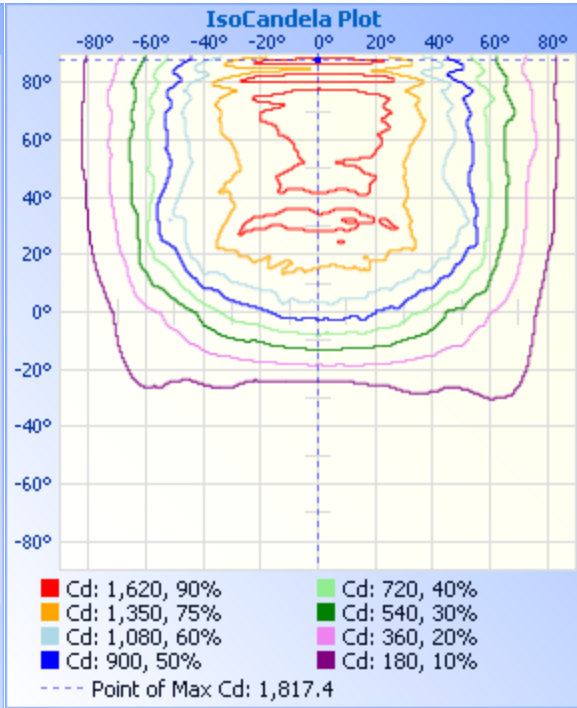
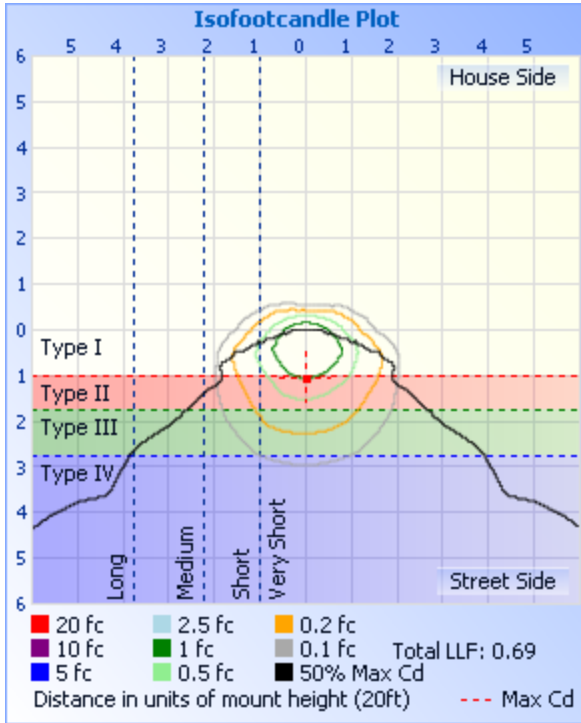
Zone	Lumens	% Lamp	% Luminaire
0-30	740.3	13.9%	13.9%
0-40	1,251.7	23.6%	23.6%
0-60	2,437.6	45.9%	45.9%
60-90	1,741.4	32.8%	32.8%
70-100	1,571.6	29.6%	29.6%
90-120	989.6	18.6%	18.6%
0-90	4,179.0	78.7%	78.7%
90-180	1,130.0	21.3%	21.3%
0-180	5,309.0	100%	100%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.4%	5,064.8	164.5	157
Beam (50%):	71.8%	3,809.9	93.2	117.2
Total:	100.1%	5,312.0		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	90.8	1.7%	90-100	443.1	8.3%
10-20	257.7	4.9%	100-110	334.5	6.3%
20-30	391.8	7.4%	110-120	212.0	4%
30-40	511.4	9.6%	120-130	98.3	1.9%
40-50	581.2	10.9%	130-140	28.6	0.5%
50-60	604.7	11.4%	140-150	8.8	0.2%
60-70	612.9	11.5%	150-160	3.3	0.1%
70-80	590.4	11.1%	160-170	1.0	0%
80-90	538.1	10.1%	170-180	0.3	0%



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	0	0	0	0
RCR: 0	1.14	1.14	1.14	1.14	1.09	1.09	1.09	.79	.99	.99	.99		.91	.91	.91		.82	.82	.82		.79			

1	.99	.93	.87	.82	.94	.88	.83	.58	.80	.76	.72	.72	.69	.66	.65	.63	.60	.56
2	.89	.79	.70	.63	.84	.75	.67	.45	.68	.61	.56	.61	.56	.52	.55	.51	.47	.44
3	.80	.68	.58	.51	.76	.65	.56	.37	.58	.51	.45	.53	.47	.42	.47	.43	.38	.35
4	.73	.59	.49	.42	.69	.56	.47	.31	.51	.44	.38	.46	.40	.35	.42	.36	.32	.29
5	.67	.52	.43	.35	.63	.50	.41	.26	.45	.38	.32	.41	.35	.30	.37	.32	.27	.24
6	.61	.47	.37	.30	.58	.45	.36	.23	.41	.33	.27	.37	.30	.26	.33	.28	.24	.21
7	.57	.42	.33	.26	.53	.40	.32	.20	.37	.29	.24	.34	.27	.22	.30	.25	.21	.18
8	.52	.38	.29	.23	.50	.37	.28	.18	.34	.26	.21	.31	.24	.20	.28	.22	.18	.16
9	.49	.35	.26	.21	.46	.34	.26	.16	.31	.24	.19	.28	.22	.18	.26	.20	.16	.14
10	.46	.32	.24	.19	.43	.31	.23	.14	.28	.22	.17	.26	.20	.16	.24	.19	.15	.13

Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014
1	992	998	1009	1023	1001	975	910	887	895	887	903	984	1003	1007	1000	993	992
2	1043	1048	1021	1012	978	910	903	903	907	939	915	912	984	994	995	1030	1043
3	1027	1049	1028	964	968	885	885	886	889	878	901	900	983	967	1043	1034	1027
4	1046	1045	988	994	973	880	852	868	850	862	859	929	1006	1020	1042	1014	1046
5	1136	1114	982	1018	990	890	877	766	792	763	875	933	984	1061	1027	1108	1136
6	1102	1132	1058	1031	983	888	808	765	769	783	829	910	963	1050	1088	1163	1102
7	1098	1077	1159	1048	979	882	773	742	746	716	769	890	975	1021	1144	1115	1098
8	1203	1086	1170	1040	979	867	756	703	717	689	794	879	1002	1033	1132	1166	1203
9	1197	1162	1157	1041	970	860	743	673	656	705	736	882	987	1043	1095	1264	1197
10	1222	1149	1132	1047	948	822	730	652	665	649	715	850	943	1032	1135	1270	1222
11	1247	1192	1218	1034	938	788	669	640	603	647	696	793	952	1028	1242	1250	1247
12	1254	1266	1249	1098	963	759	651	576	550	601	682	786	943	1070	1267	1275	1254
13	1299	1312	1221	1147	988	753	635	545	556	553	628	747	930	1087	1220	1247	1299
14	1326	1371	1203	1193	936	772	599	521	504	535	593	733	964	1077	1179	1308	1326
15	1285	1420	1223	1160	919	754	561	476	460	494	581	760	991	1075	1213	1347	1285
16	1356	1342	1249	1057	909	706	549	441	432	448	556	777	968	1110	1231	1238	1356
17	1525	1321	1292	1044	881	683	520	419	393	418	522	743	935	1135	1227	1257	1525
18	1362	1491	1349	1058	888	672	503	387	354	393	487	714	933	1102	1269	1417	1362
19	1334	1437	1422	1054	870	656	493	356	330	365	482	679	921	1077	1344	1408	1334
20	1463	1310	1320	1077	860	604	453	328	293	334	470	659	879	1138	1309	1393	1463
21	1464	1382	1212	1095	867	594	424	308	262	313	451	647	863	1102	1359	1446	1464
22	1458	1504	1268	1092	843	576	395	278	233	284	431	615	863	1084	1369	1585	1458
23	1452	1493	1464	1094	831	544	371	248	196	250	403	586	875	1107	1476	1558	1452
24	1564	1502	1413	1119	844	530	346	219	161	223	368	571	866	1103	1428	1455	1564
25	1580	1438	1341	1088	831	520	318	186	137	191	334	574	844	1084	1290	1453	1580
26	1590	1518	1326	1080	834	519	292	151	119	162	318	561	857	1152	1351	1664	1590
27	1488	1586	1359	1133	811	502	268	130	107	142	288	538	870	1163	1385	1600	1488
28	1563	1547	1498	1130	798	489	244	117	100	126	269	520	847	1151	1473	1532	1563
29	1669	1480	1523	1137	795	462	220	107	94	114	245	491	800	1123	1471	1510	1669
30	1761	1549	1509	1130	790	447	200	100	90	106	226	475	784	1154	1469	1559	1761

31	1645	1665	1464	1129	773	431	184	95	86	100	213	446	754	1144	1435	1667	1645
32	1663	1644	1460	1185	751	408	168	91	85	96	201	428	738	1129	1401	1706	1663
33	1734	1544	1542	1175	748	385	151	89	86	92	184	411	728	1167	1435	1572	1734
34	1763	1596	1606	1162	726	380	137	87	85	91	172	396	737	1178	1481	1540	1763
35	1602	1777	1534	1135	699	363	128	86	85	88	163	387	714	1143	1520	1659	1602
36	1556	1790	1524	1120	699	344	122	84	84	88	154	372	688	1128	1515	1817	1556
37	1557	1631	1635	1148	682	327	117	83	83	88	145	348	693	1124	1581	1676	1557
38	1613	1554	1730	1175	643	314	113	83	84	85	138	338	684	1116	1607	1541	1613
39	1612	1573	1671	1163	639	301	110	82	84	85	132	316	650	1170	1754	1506	1612
40	1576	1582	1606	1203	627	283	106	81	84	84	126	299	631	1233	1641	1598	1576
41	1637	1601	1578	1278	599	268	102	81	83	83	120	297	624	1212	1429	1596	1637
42	1685	1589	1497	1310	565	253	99	80	80	81	115	282	620	1195	1351	1594	1685
43	1593	1596	1430	1314	527	238	94	78	77	79	110	266	569	1189	1399	1599	1593
44	1582	1636	1383	1204	510	223	91	76	74	77	105	247	548	1153	1438	1630	1582
45	1680	1610	1376	1175	507	216	88	73	70	75	100	236	519	1121	1381	1675	1680
46	1768	1600	1317	1209	488	204	84	71	64	73	96	227	514	1182	1318	1647	1768
47	1804	1574	1299	1223	466	196	81	67	60	70	93	216	499	1266	1295	1656	1804
48	1768	1616	1331	1213	449	186	79	64	55	67	90	204	493	1240	1323	1632	1768
49	1767	1620	1339	1168	433	174	77	61	50	63	87	197	494	1137	1315	1607	1767
50	1753	1587	1292	1129	419	164	74	56	46	60	85	188	509	1106	1301	1686	1753
51	1656	1573	1306	1105	395	157	72	52	42	57	82	179	480	1169	1305	1699	1656
52	1648	1530	1360	1104	405	151	69	48	38	52	80	172	449	1151	1283	1565	1648
53	1657	1531	1386	1042	403	144	67	45	35	49	78	165	437	1110	1276	1530	1657
54	1673	1519	1301	1035	374	139	65	41	31	45	76	159	418	1062	1249	1540	1673
55	1713	1474	1223	1037	363	137	62	37	28	41	73	157	396	1086	1247	1595	1713
56	1722	1458	1212	1058	345	133	60	34	25	38	70	152	407	1071	1197	1639	1722
57	1705	1493	1197	1058	342	129	58	31	23	34	68	146	381	1122	1180	1637	1705
58	1693	1531	1195	1072	345	129	55	27	20	30	64	143	395	1119	1159	1606	1693
59	1690	1523	1184	1097	339	129	51	24	19	27	60	139	382	1096	1132	1607	1690
60	1709	1507	1180	1037	324	125	49	20	16	24	59	136	357	975	1133	1660	1709
61	1742	1509	1191	979	303	121	47	18	14	21	55	132	346	916	1141	1711	1742
62	1760	1533	1173	991	292	121	44	15	12	18	50	132	341	912	1137	1700	1760
63	1748	1565	1140	991	287	120	40	13	9	15	47	129	332	884	1153	1639	1748
64	1737	1579	1141	920	284	117	38	10	7	13	44	124	332	812	1163	1608	1737
65	1737	1576	1161	810	266	114	35	8	5	10	41	123	317	776	1168	1656	1737
66	1721	1580	1197	754	255	109	32	5	3	8	38	115	299	769	1173	1713	1721
67	1697	1611	1204	707	244	104	28	4	3	6	34	111	290	753	1178	1746	1697
68	1687	1628	1210	678	229	99	25	3	4	5	31	107	281	748	1199	1711	1687
69	1712	1622	1196	647	215	93	22	3	3	4	29	104	272	727	1224	1628	1712
70	1739	1615	1188	675	206	88	19	3	3	2	26	100	264	691	1239	1622	1739
71	1734	1616	1196	700	191	83	16	3	3	4	22	96	248	649	1258	1680	1734
72	1696	1628	1203	650	176	78	14	2	4	4	19	92	234	637	1229	1716	1696
73	1619	1604	1200	619	164	73	13	3	4	4	17	86	220	639	1200	1696	1619

74	1603	1560	1184	615	148	69	13	3	4	4	17	82	205	616	1159	1624	1603
75	1693	1600	1184	602	136	64	12	3	4	4	16	76	188	585	1107	1598	1693
76	1756	1668	1210	593	127	60	12	3	3	4	15	71	173	561	1115	1682	1756
77	1725	1654	1210	587	120	56	11	3	4	4	15	66	158	541	1172	1705	1725
78	1616	1551	1175	592	111	52	11	3	4	4	14	61	144	528	1176	1596	1616
79	1498	1450	1103	549	105	49	10	3	4	4	13	57	133	527	1109	1491	1498
80	1500	1453	1041	502	100	46	11	4	4	4	13	53	121	525	1031	1469	1500
81	1659	1618	1132	533	94	42	10	3	4	4	13	50	109	540	1043	1592	1659
82	1794	1754	1195	508	89	40	9	3	4	4	13	48	101	585	1137	1735	1794
83	1707	1656	1099	475	84	38	8	3	4	4	12	45	92	589	1135	1705	1707
84	1449	1393	971	448	78	37	9	4	4	4	12	44	83	522	973	1435	1449
85	1345	1283	972	487	73	35	8	3	5	4	12	42	77	492	886	1317	1345
86	1421	1400	1054	495	69	34	8	4	3	4	11	41	71	509	921	1417	1421
87	1636	1640	1037	450	65	32	8	3	4	4	11	38	66	488	1037	1582	1636
88	1800	1621	964	418	62	31	7	4	5	4	11	37	63	412	1031	1657	1800
89	1653	1381	897	408	60	30	7	3	4	3	11	35	61	420	910	1481	1653
90	1340	1172	899	374	60	29	7	4	4	4	10	34	60	441	869	1267	1340
91	1208	1225	924	371	59	28	6	3	4	4	9	33	58	418	912	1269	1208
92	1335	1494	898	375	59	27	6	4	4	5	9	32	57	392	992	1389	1335
93	1582	1533	868	341	59	26	4	4	4	4	9	30	57	378	937	1498	1582
94	1620	1363	857	318	59	24	6	3	4	3	9	30	57	365	817	1457	1620
95	1431	1154	840	315	59	24	6	4	5	4	8	28	56	356	774	1297	1431
96	1206	1099	829	293	59	23	5	3	4	4	8	28	56	319	796	1201	1206
97	1186	1193	822	278	59	21	5	4	4	5	8	26	56	305	797	1210	1186
98	1383	1306	802	270	58	20	5	3	5	4	7	25	57	299	767	1284	1383
99	1445	1268	771	249	59	18	5	4	5	5	8	24	57	292	719	1303	1445
100	1348	1164	742	236	58	18	6	3	5	4	7	23	58	259	692	1238	1348
101	1247	1074	713	225	56	18	5	3	5	4	7	23	59	242	663	1165	1247
102	1235	1056	686	208	54	16	5	4	4	4	6	22	60	236	646	1138	1235
103	1252	1111	673	194	53	15	4	4	5	4	7	20	60	227	654	1106	1252
104	1218	1125	655	186	51	15	5	3	4	4	7	19	59	208	651	1106	1218
105	1180	1075	624	171	50	14	4	4	4	5	6	18	58	194	594	1091	1180
106	1169	1027	598	163	47	13	4	3	4	4	6	17	58	184	558	1085	1169
107	1230	1013	560	154	44	12	4	4	5	4	7	15	56	172	542	1054	1230
108	1145	979	527	139	42	10	4	3	4	4	6	15	54	166	533	972	1145
109	1050	942	515	134	40	10	4	3	4	4	5	14	52	155	506	921	1050
110	1047	908	495	124	37	10	4	4	4	3	6	14	49	143	477	926	1047
111	1100	890	451	111	36	10	3	3	4	4	6	13	47	133	451	908	1100
112	1063	847	424	102	34	9	4	3	4	4	4	12	44	124	439	882	1063
113	1013	820	401	94	32	8	4	3	4	4	5	12	41	112	427	827	1013
114	969	783	370	87	30	8	4	3	4	4	5	11	38	102	407	816	969
115	843	751	358	80	28	8	3	3	3	4	6	12	36	95	374	765	843
116	756	704	344	73	27	8	4	3	3	4	4	10	34	89	364	718	756

117	721	658	318	68	25	7	3	3	4	4	5	10	31	82	362	693	721
118	688	626	303	64	24	7	2	2	3	4	5	10	29	75	340	657	688
119	636	602	286	58	22	7	3	3	4	4	5	10	27	69	334	611	636
120	607	579	266	53	21	6	3	3	4	4	5	9	24	63	303	595	607
121	582	539	250	47	19	6	3	3	3	3	4	9	23	56	276	544	582
122	546	496	228	42	18	5	3	3	4	4	5	8	21	50	257	505	546
123	514	454	208	38	17	6	3	3	4	4	4	8	19	44	238	476	514
124	476	415	192	35	16	6	3	3	4	4	4	7	18	39	218	433	476
125	440	379	177	33	15	6	3	3	4	4	4	7	17	36	200	397	440
126	398	347	167	30	14	5	3	3	4	4	4	7	15	32	184	352	398
127	362	319	151	28	12	5	3	3	4	4	4	7	14	28	165	313	362
128	335	281	131	26	11	5	3	3	4	3	4	7	13	25	144	275	335
129	299	252	110	24	11	4	3	3	4	4	3	7	12	23	128	247	299
130	268	222	98	22	10	4	2	4	4	4	4	6	11	22	106	213	268
131	239	198	84	20	9	4	3	3	3	4	4	6	11	20	92	185	239
132	212	176	75	19	9	4	3	2	3	3	4	6	10	19	79	161	212
133	185	155	65	18	8	4	3	3	4	4	4	6	9	17	69	139	185
134	162	132	58	16	8	4	3	3	4	4	4	6	9	16	61	120	162
135	136	118	53	14	8	4	3	3	4	4	3	6	8	16	55	104	136
136	116	101	47	13	7	4	3	4	4	4	4	6	8	15	50	93	116
137	101	89	42	13	5	4	3	4	4	4	4	6	7	15	45	82	101
138	88	78	39	12	6	4	4	4	4	4	4	6	6	15	41	71	88
139	79	67	36	11	6	4	3	4	4	4	4	5	7	14	37	63	79
140	70	59	32	10	6	4	3	3	4	4	4	5	7	13	34	57	70
141	62	51	30	10	5	4	2	4	3	3	4	5	6	12	30	51	62
142	56	46	27	9	5	3	3	3	4	4	4	5	6	9	28	46	56
143	51	42	25	8	5	3	2	3	3	4	4	5	5	9	26	42	51
144	48	40	24	8	4	3	2	3	4	4	4	5	5	8	25	39	48
145	45	36	23	8	4	3	4	4	4	4	4	5	4	7	24	36	45
146	43	34	21	8	4	3	3	4	5	4	4	4	4	6	23	33	43
147	40	31	20	7	4	3	3	4	3	4	4	4	4	5	22	30	40
148	37	28	19	7	3	3	3	4	5	3	4	4	3	5	22	28	37
149	34	27	18	7	3	3	4	4	4	4	4	5	4	5	21	26	34
150	31	24	18	5	3	3	3	5	4	5	5	4	4	4	20	25	31
151	28	23	16	6	3	3	3	4	4	5	5	4	4	4	18	24	28
152	26	21	15	5	3	3	4	3	5	4	4	4	3	4	16	22	26
153	25	19	12	5	2	3	4	4	5	4	4	4	3	3	14	20	25
154	22	18	10	5	2	3	4	4	4	4	4	3	3	4	12	19	22
155	20	16	8	4	2	3	4	4	3	4	4	4	2	3	9	16	20
156	17	14	7	4	2	3	3	3	4	4	4	3	3	3	8	15	17
157	15	12	6	4	2	2	4	4	4	4	5	4	3	4	5	13	15
158	13	10	5	3	1	3	4	4	4	5	5	4	3	3	5	11	13
159	11	9	5	4	2	3	4	4	4	5	4	4	2	3	4	9	11

160	10	8	4	3	2	3	4	3	5	4	5	4	2	3	3	8	10
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162	7	5	4	4	2	3	2	2	5	4	4	5	2	3	3	5	7
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164	4	4	4	3	2	3	3	3	4	4	5	5	3	3	3	3	4
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179	3	3	4	4	2	3	3	3	3	3	4	4	2	4	3	3	3
180	3	3	4	3	2	3	3	3	3	3	3	4	3	3	3	3	3

Luminaire Report Summary

IESNA:LM-63-1995
 [TEST]
 [ISSUEDATE] 2019-2-21 15:09
 [MANUFAC] Ningbo Vance Lighting Co.,Ltd
 [LUMCAT]
 [LUMINAIRE] CWP40/H1/50K/P/G1
 [LAMPCAT]
 [LAMP]
 [TESTLAB] Belling Test Laboratory Co., LTD
 [_TESTINST] GPM-3000
 [_TESTDIST] 14.040 m [K=1.0000]
 [_TESTTEMPERATURE] 24.6 'C
 [_TESTHUMIDITY]
 [_TESTOPERATOR]
 [BALLAST]
 [BALLASTCAT]
 FILE: CANDELA MULTIPLIER: 1.0505
 FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17
 FILE: COORDINATE SYSTEM: TYPE C
 FILE: UNIT OF MEASURE: METRIC
 FILE: BALLAST FACTOR: 1

