

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: HALO

Report Number: P407862

Luminaire Tested: **ALP5A30-DL**

Issue Date: 08/27/2020

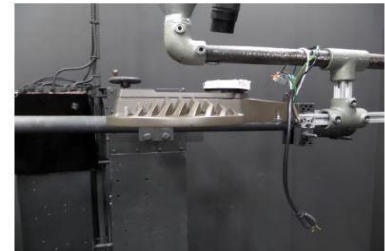
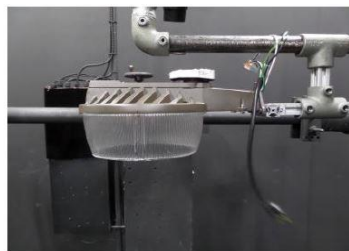
Test Information

Test Method: LM-79-08
Report Number: P407862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2006-852-17)
Test Lab: INNOVATIONS CENTER(G1)
Issue Date: 08/27/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ALP5A30-DL
Description: HALO OUTDOOR BARN LIGHT PREMIUM 5000LM W/ DROP LENS
Light Source: (60) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5135.4 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.25')
IES Classification: Type V - Short - Cutoff
BUG Rating: B2 - U3 - G1

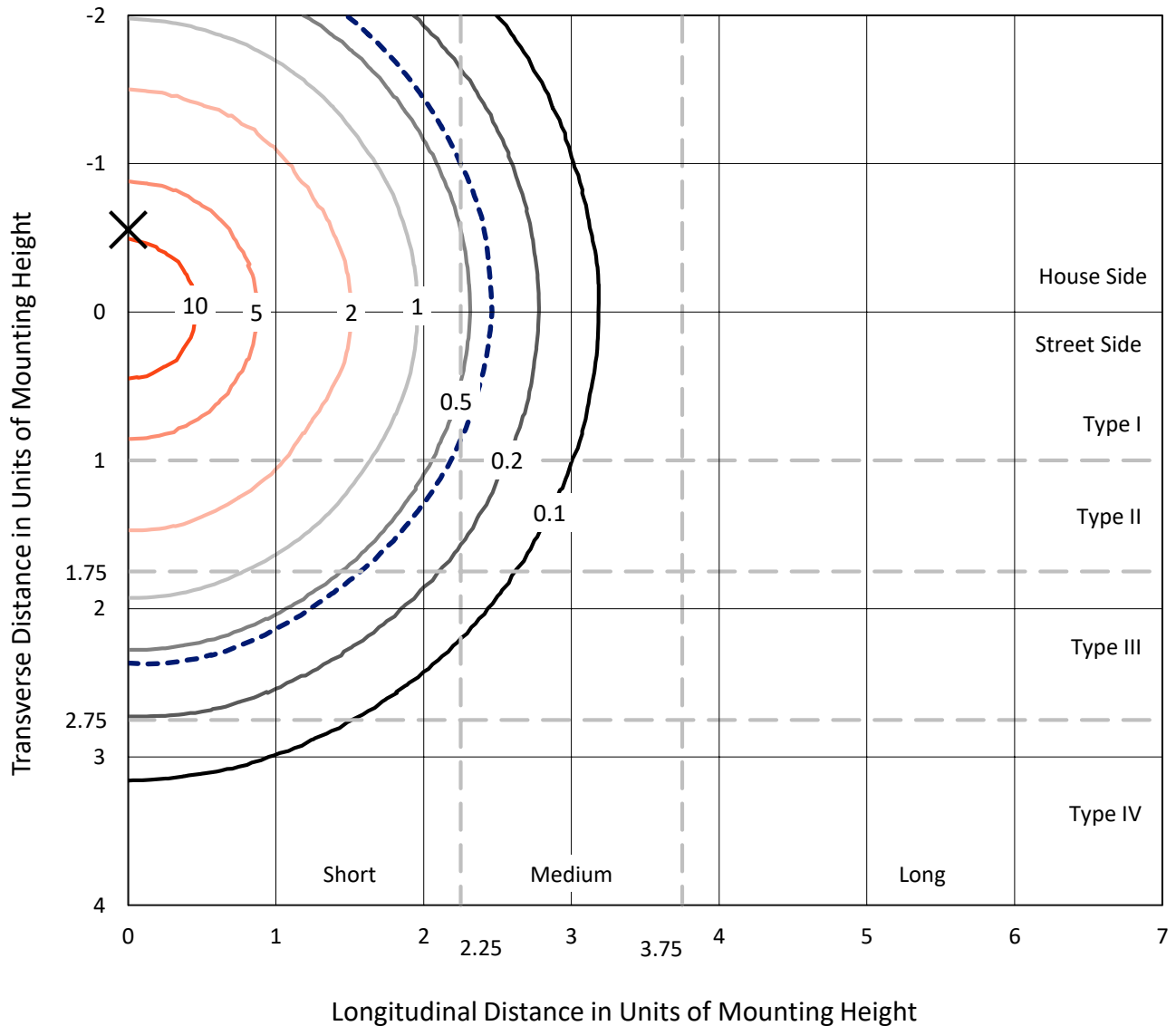
Input Watts (W): 36.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.313
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

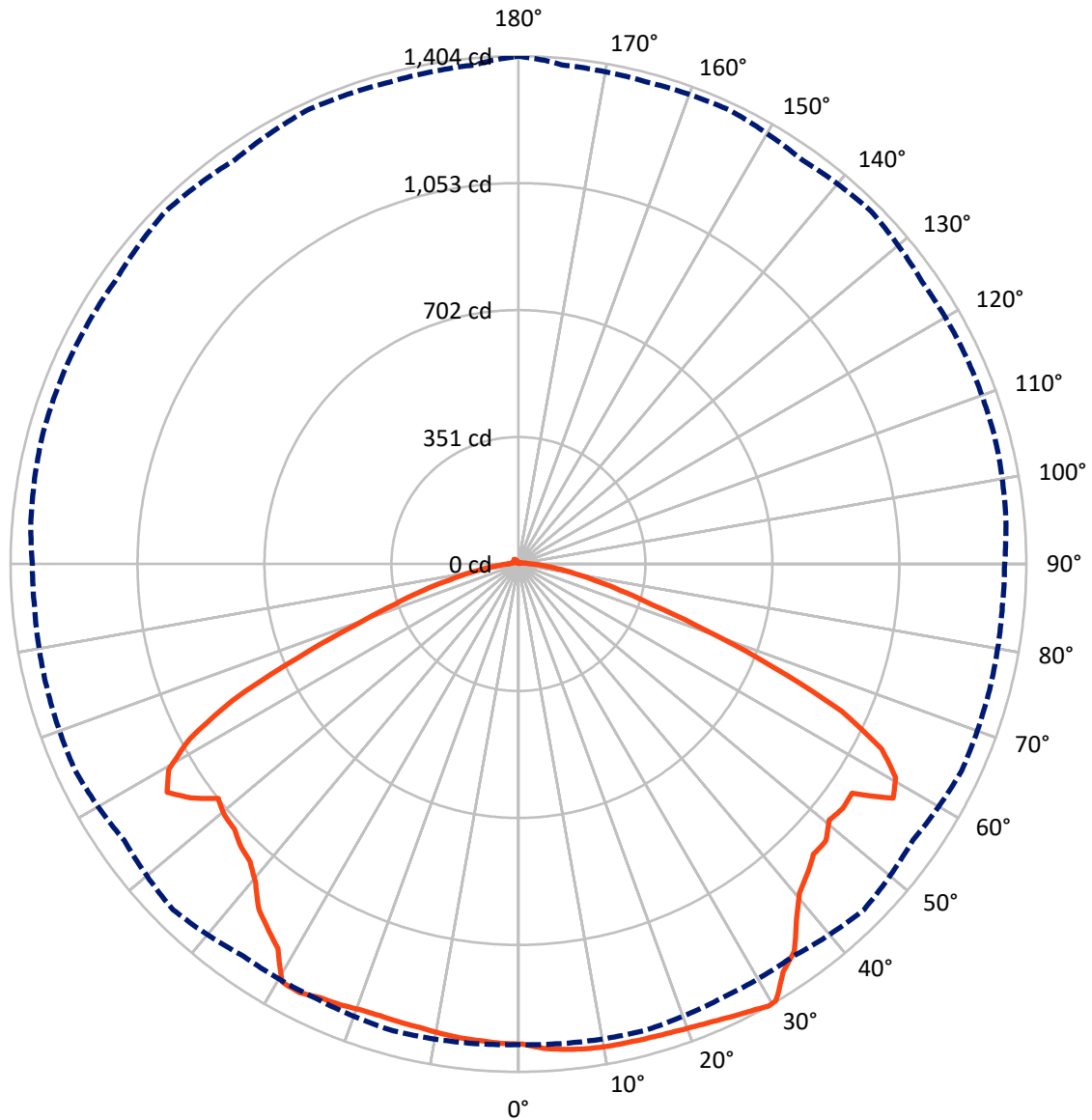
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 29-Deg Vertical

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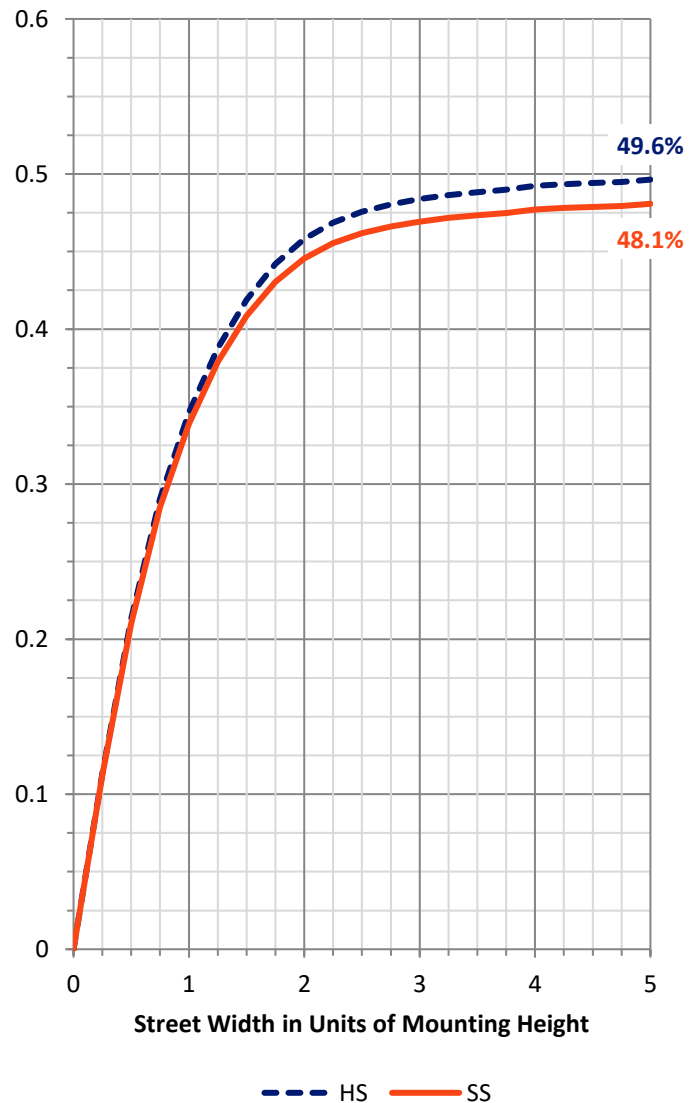
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2573.7	36.7	2610.4
	% Fixture	50.1	0.7	50.8
Street Side	Lumens	2482.5	42.4	2525.0
	% Fixture	48.3	0.8	49.2
Total	Lumens	5056.3	79.1	5135.4
	% Fixture	98.5	1.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	2.5
10°-20°	375.8	7.3
20°-30°	620.7	12.1
30°-40°	789.4	15.4
40°-50°	872.4	17.0
50°-60°	1010.0	19.7
60°-70°	867.9	16.9
70°-80°	309.7	6.0
80°-90°	83.7	1.6
90°-100°	25.5	0.5
100°-110°	14.8	0.3
110°-120°	8.7	0.2
120°-130°	8.5	0.2
130°-140°	9.6	0.2
140°-150°	8.0	0.2
150°-160°	3.5	0.1
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-90°	5056.3	98.5
0°-180°	5135.4	100.0



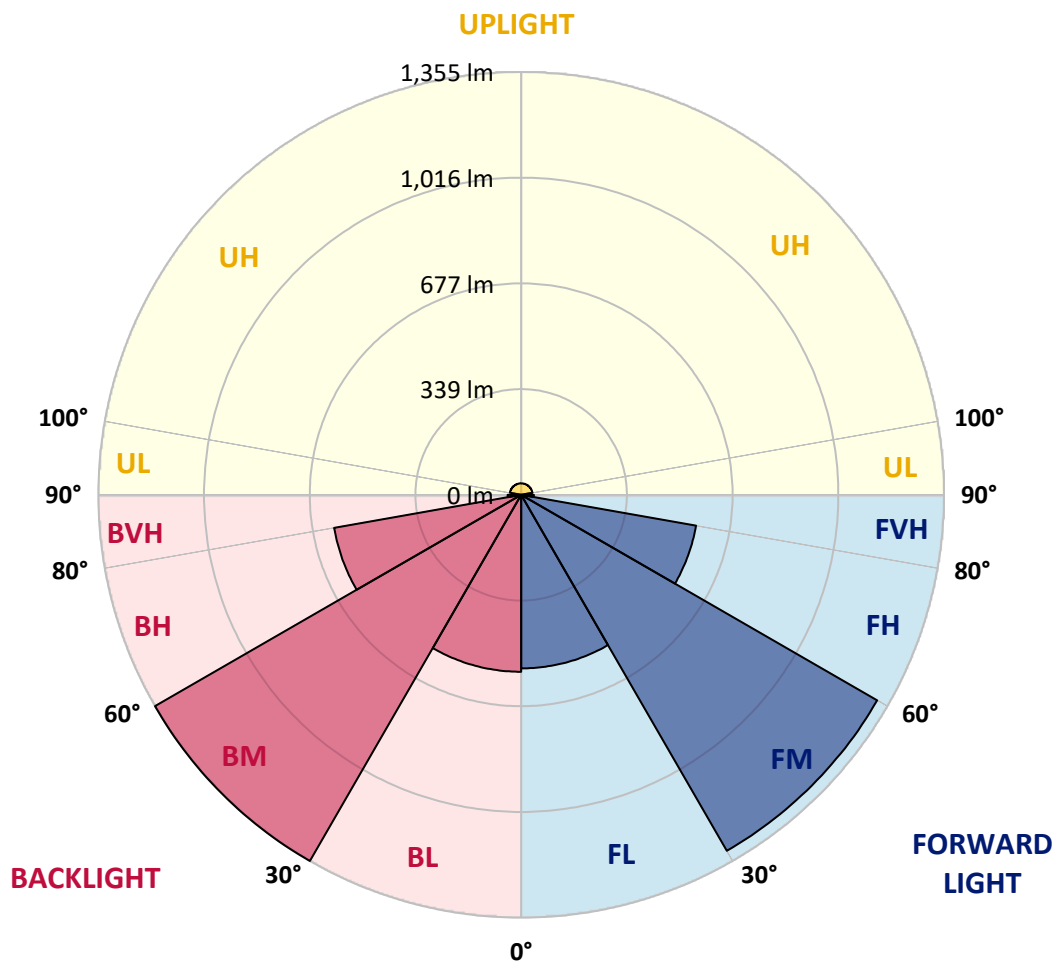
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	556.2	10.8			
FM	(30°-60°)	1317.1	25.6			
FH	(60°-80°)	568.9	11.1			G0/660
FVH	(80°-90°)	40.4	0.8			G1/100
BL	(0°-30°)	567.0	11.0	B2/1000		
BM	(30°-60°)	1354.7	26.4	B2/2500		
BH	(60°-80°)	608.6	11.9	B2/1000		G0/660
BVH	(80°-90°)	43.4	0.8			G1/100
UL	(90°-100°)	25.5	0.5		U2/50	
UH	(100°-180°)	36.7	0.7		U2/50	

BUG Rating: B2-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327
2.5°	1326	1321	1322	1319	1315	1336	1319	1335	1323	1319	1321
5°	1322	1318	1319	1317	1313	1335	1318	1335	1323	1319	1322
7.5°	1320	1316	1317	1314	1310	1332	1314	1332	1321	1318	1320
10°	1315	1312	1315	1311	1307	1330	1313	1329	1321	1316	1319
12.5°	1310	1309	1312	1307	1304	1329	1310	1327	1321	1315	1319
15°	1308	1306	1311	1304	1302	1326	1308	1327	1320	1315	1318
17.5°	1306	1305	1310	1303	1301	1326	1307	1327	1321	1316	1318
20°	1307	1307	1312	1302	1300	1327	1306	1327	1321	1316	1320
22.5°	1314	1312	1316	1307	1302	1329	1311	1329	1325	1321	1321
25°	1318	1320	1323	1311	1311	1337	1316	1336	1331	1328	1328
27.5°	1330	1332	1336	1324	1321	1346	1325	1348	1341	1336	1337
29°	1329	1331	1336	1325	1324	1351	1331	1352	1348	1343	1344
30°	1327	1329	1334	1323	1324	1351	1331	1353	1349	1345	1346
32.5°	1254	1257	1264	1262	1256	1283	1272	1297	1289	1289	1290
35°	1223	1218	1230	1215	1229	1252	1236	1248	1260	1267	1261
37.5°	1193	1197	1209	1194	1186	1219	1198	1219	1217	1231	1226
40°	1142	1149	1138	1155	1143	1154	1147	1173	1162	1183	1171
42.5°	1108	1118	1105	1120	1125	1127	1105	1131	1144	1157	1148
45°	1095	1090	1121	1103	1109	1133	1094	1103	1157	1137	1143
47.5°	1074	1075	1096	1061	1070	1097	1075	1087	1134	1116	1139
50°	1069	1068	1077	1055	1069	1075	1060	1071	1113	1116	1122
52.5°	1053	1064	1066	1051	1056	1053	1029	1064	1094	1107	1117
55°	1113	1112	1116	1094	1093	1089	1065	1081	1128	1139	1142
57.5°	1158	1166	1171	1150	1140	1143	1127	1151	1204	1223	1227
60°	1122	1129	1131	1106	1101	1104	1093	1120	1169	1188	1185
62.5°	1029	1036	1030	1006	1013	1017	1003	1032	1072	1090	1086
65°	876	880	872	861	851	857	861	880	909	918	927
67.5°	661	673	672	656	646	655	668	686	700	716	726
70°	478	482	488	472	470	476	494	493	511	522	527
72.5°	358	357	355	349	349	353	353	357	368	370	369
75°	273	272	266	265	265	268	267	268	267	276	273
77.5°	195	200	198	198	196	197	198	199	197	202	201
80°	144	145	146	141	146	146	144	143	143	144	145
82.5°	98	97	99	95	97	95	97	98	100	98	98
85°	65	66	64	64	65	65	64	65	66	66	66
87.5°	46	46	45	45	45	46	46	46	47	46	48
90°	32	32	32	32	32	32	33	33	33	34	35
92.5°	25	25	26	26	26	26	26	26	26	27	27
95°	21	21	22	21	22	21	22	22	22	22	22
97.5°	19	19	20	20	20	20	20	20	20	20	20
100°	18	18	18	18	19	19	19	19	19	19	19
102.5°	17	17	17	17	17	17	17	17	17	17	17
105°	14	14	15	14	15	14	15	15	15	15	15
107.5°	12	12	12	12	12	12	12	12	12	13	12



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	10	10	10	11	11	11	11	10	10	10	11
112.5°	9	10	10	10	11	10	10	10	9	9	9
115°	9	9	10	10	10	10	10	10	9	9	8
117.5°	9	10	9	10	10	10	10	9	9	9	9
120°	11	11	10	10	10	10	10	10	9	9	9
122.5°	13	12	12	11	11	11	11	10	10	9	9
125°	14	14	14	13	12	11	11	11	10	9	9
127.5°	15	15	15	14	13	11	12	12	12	10	10
130°	15	16	16	15	14	12	12	12	13	11	10
132.5°	16	16	15	16	15	14	14	13	13	13	12
135°	17	16	16	16	16	15	14	14	13	14	13
137.5°	15	16	16	15	15	16	14	14	14	14	14
140°	17	16	15	15	16	15	15	14	15	14	13
142.5°	15	15	15	14	15	15	14	14	14	13	14
145°	14	14	13	14	14	14	14	14	14	14	15
147.5°	12	12	12	12	13	13	13	14	13	13	14
150°	10	10	11	10	11	11	11	11	11	12	12
152.5°	9	9	8	9	9	9	9	9	9	10	10
155°	6	7	7	7	7	8	8	8	7	8	8
157.5°	4	5	5	5	5	5	6	5	6	6	6
160°	3	3	3	3	3	3	4	3	4	4	4
162.5°	2	2	2	2	2	2	2	2	2	2	2
165°	1	1	1	1	1	1	1	1	1	1	1
167.5°	1	1	1	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1	1	1	1
172.5°	1	1	1	1	1	1	1	1	1	1	1
175°	1	1	1	1	1	1	1	1	1	1	1
177.5°	1	1	1	1	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
0°	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327	1327
2.5°	1329	1339	1322	1326	1341	1322	1330	1324	1323	1334	1341
5°	1329	1339	1323	1326	1345	1325	1336	1330	1329	1339	1348
7.5°	1329	1338	1327	1329	1347	1327	1338	1334	1331	1343	1353
10°	1327	1338	1329	1330	1350	1329	1341	1334	1334	1345	1356
12.5°	1326	1338	1330	1331	1350	1330	1343	1337	1337	1347	1357
15°	1327	1338	1330	1331	1350	1331	1345	1338	1339	1348	1359
17.5°	1326	1337	1332	1333	1352	1333	1349	1341	1342	1352	1362
20°	1327	1340	1336	1335	1354	1336	1351	1345	1346	1356	1367
22.5°	1331	1342	1341	1339	1358	1341	1356	1351	1354	1362	1374
25°	1337	1347	1346	1346	1363	1347	1365	1360	1363	1372	1384
27.5°	1345	1356	1355	1355	1371	1358	1376	1370	1376	1384	1395
29°	1353	1363	1364	1362	1379	1365	1384	1379	1385	1394	1404
30°	1353	1363	1366	1361	1378	1364	1381	1377	1381	1390	1402
32.5°	1306	1309	1312	1307	1323	1314	1328	1329	1324	1334	1344
35°	1263	1276	1285	1292	1294	1284	1302	1285	1302	1302	1314
37.5°	1225	1235	1234	1226	1234	1225	1241	1222	1236	1242	1248
40°	1180	1182	1181	1174	1190	1176	1190	1185	1181	1184	1196
42.5°	1164	1153	1154	1137	1175	1147	1157	1166	1153	1159	1171
45°	1157	1150	1132	1119	1151	1121	1134	1136	1136	1139	1144
47.5°	1136	1132	1127	1119	1121	1134	1129	1115	1142	1145	1144
50°	1120	1116	1122	1100	1103	1126	1118	1111	1113	1107	1113
52.5°	1114	1111	1101	1078	1095	1106	1099	1098	1109	1112	1123
55°	1139	1130	1109	1089	1101	1110	1110	1103	1111	1107	1119
57.5°	1221	1213	1190	1178	1195	1205	1209	1206	1212	1216	1222
60°	1189	1185	1168	1151	1171	1185	1193	1192	1198	1198	1198
62.5°	1093	1088	1086	1062	1085	1100	1107	1107	1120	1117	1127
65°	938	935	936	921	933	945	958	960	968	970	983
67.5°	721	738	725	726	737	746	745	762	763	770	758
70°	529	528	531	531	525	538	535	536	556	560	550
72.5°	375	366	375	381	378	382	384	386	390	392	388
75°	273	270	277	282	282	285	283	287	293	292	291
77.5°	201	199	200	209	210	212	212	212	217	216	215
80°	144	144	147	155	152	155	156	158	161	159	157
82.5°	98	100	104	102	106	108	111	112	112	112	110
85°	67	67	69	68	69	71	73	74	75	75	76
87.5°	47	47	49	48	48	50	50	51	51	51	52
90°	35	34	34	34	34	35	34	34	35	35	34
92.5°	27	27	27	27	26	27	26	26	26	26	26
95°	23	22	23	22	22	22	21	21	21	21	21
97.5°	20	20	20	20	20	19	19	18	18	18	18
100°	19	19	19	19	18	18	16	15	15	15	15
102.5°	17	17	17	17	17	16	14	12	13	13	13
105°	15	15	15	15	14	13	12	11	11	11	11
107.5°	13	12	13	12	12	11	10	9	10	10	10



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
110°	11	10	10	10	10	9	8	7	8	8	8
112.5°	9	9	9	9	9	9	7	6	6	6	6
115°	8	8	8	8	8	8	6	5	5	5	5
117.5°	8	8	8	8	8	8	7	5	4	4	4
120°	8	8	8	8	8	7	7	5	4	4	4
122.5°	8	8	8	8	8	8	6	5	4	4	4
125°	9	8	8	8	8	8	6	5	4	4	4
127.5°	9	9	9	9	8	8	7	5	4	4	4
130°	10	9	9	9	9	9	7	5	4	4	4
132.5°	12	11	11	10	10	10	9	7	5	4	4
135°	13	12	11	12	11	11	10	8	5	5	4
137.5°	13	13	13	12	12	12	11	8	6	5	5
140°	14	14	13	14	13	13	12	9	6	6	6
142.5°	14	13	14	14	13	13	12	9	6	6	6
145°	15	13	14	15	14	13	12	9	6	5	5
147.5°	14	13	14	15	14	13	11	8	6	5	4
150°	13	12	13	14	13	11	10	7	5	4	4
152.5°	11	11	11	11	11	10	8	6	5	4	4
155°	9	9	9	9	9	8	6	5	4	4	4
157.5°	6	7	7	7	7	6	5	4	3	3	3
160°	4	4	4	4	4	4	3	2	2	2	2
162.5°	2	2	2	3	2	2	2	2	1	1	1
165°	1	1	1	1	1	1	1	1	1	1	1
167.5°	1	1	1	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1	1	1	1
172.5°	1	1	1	1	1	1	1	1	1	1	1
175°	1	1	1	1	1	1	1	1	1	1	1
177.5°	1	1	1	1	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1

(END OF REPORT)