

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: P407852

Luminaire Tested: **ALP5A30**

Issue Date: 08/27/2020

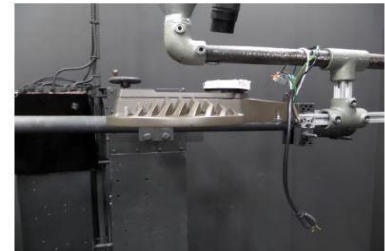
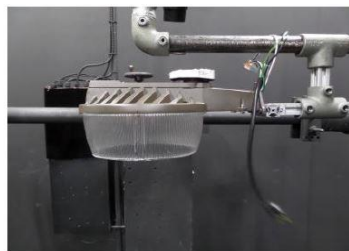
Test Information

Test Method: LM-79-08
Report Number: P407852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2006-852-5)
Test Lab: INNOVATIONS CENTER(G1)
Issue Date: 08/27/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ALP5A30
Description: HALO OUTDOOR BARN LIGHT PREMIUM 5000LM
Light Source: (60) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5213.3 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Circular (Dia: 0.67' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G0

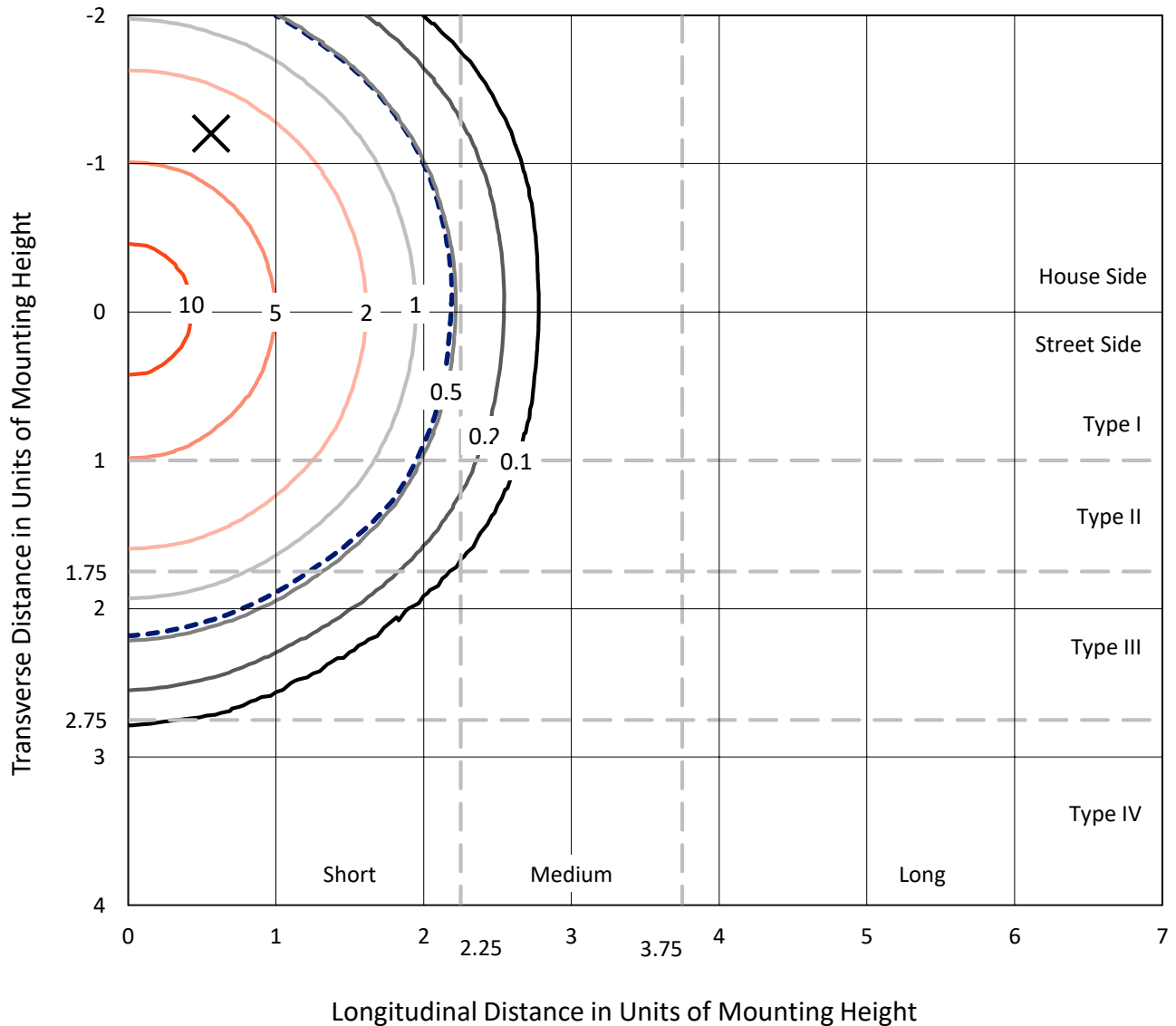
Input Watts (W): 36.9
Input Voltage (V): 120.0
Input Current (Ain): 0.313
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

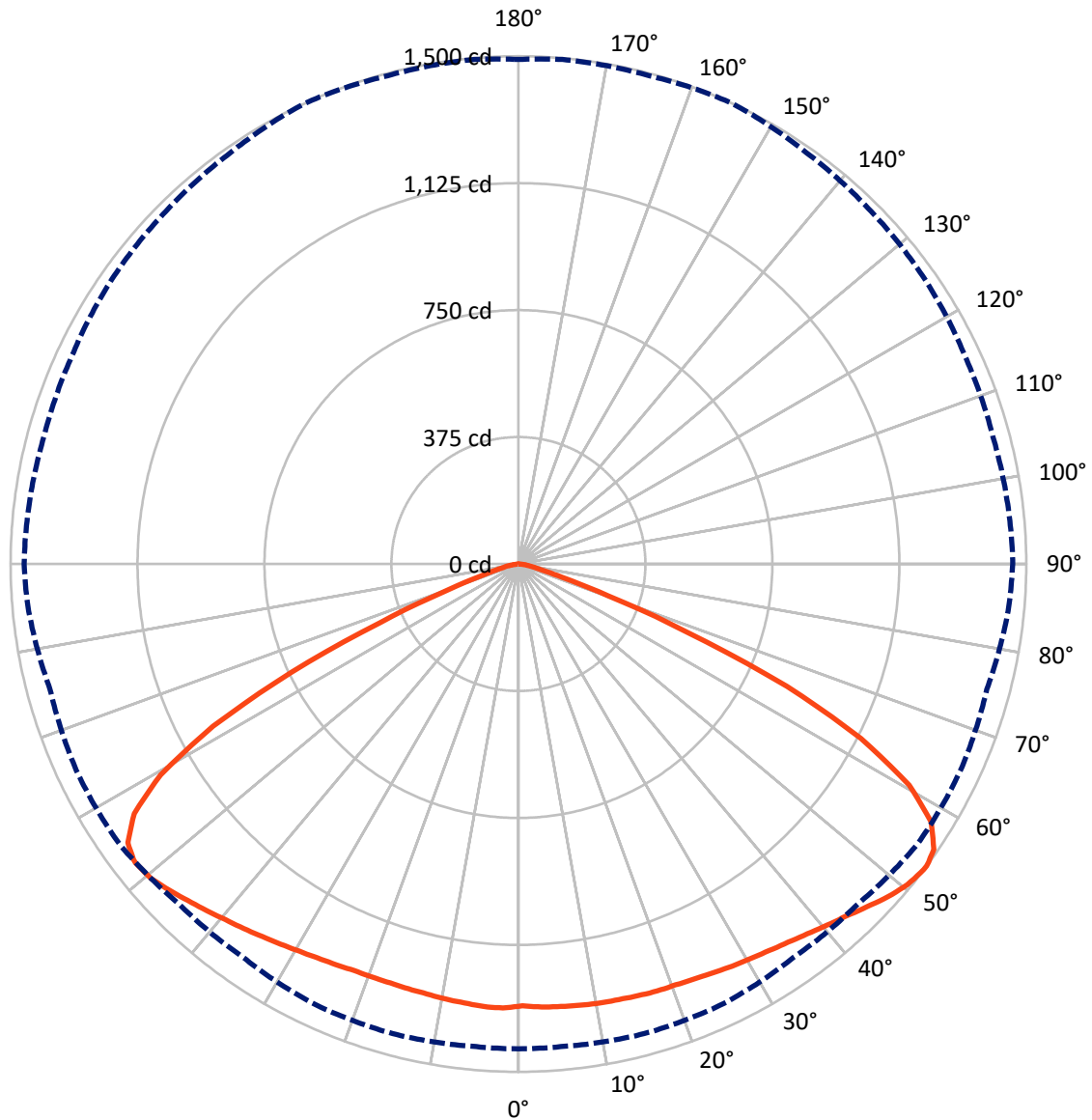
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 53-Deg Vertical

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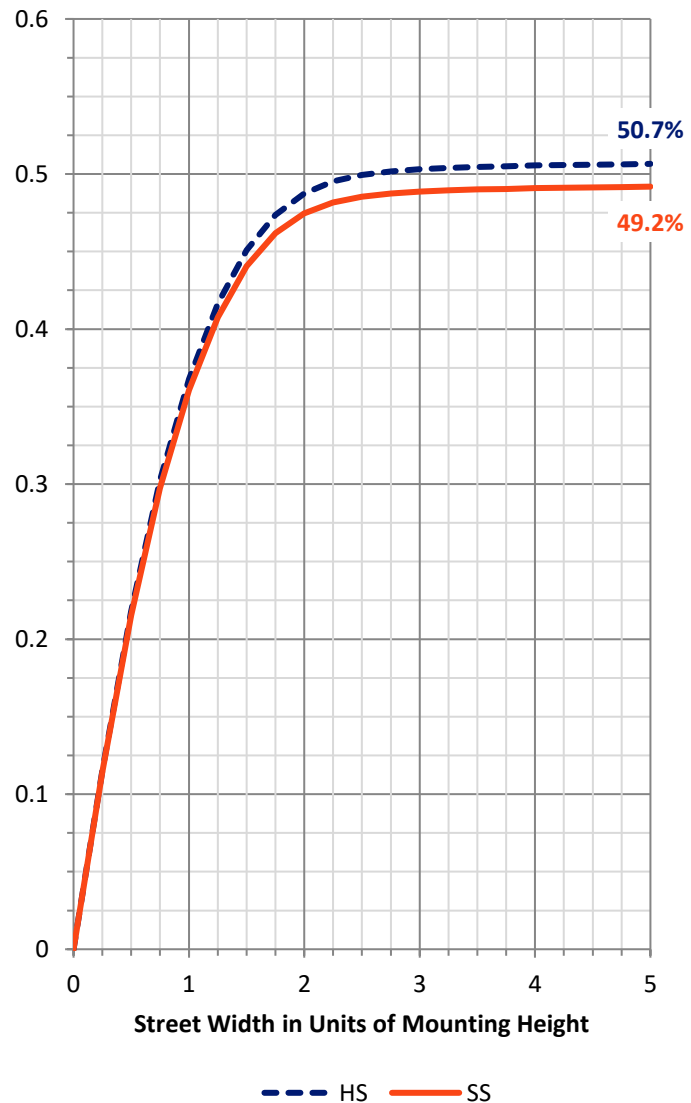
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2651.2	0.0	2651.2
	% Fixture	50.9	0.0	50.9
Street Side	Lumens	2562.1	0.0	2562.1
	% Fixture	49.1	0.0	49.1
Total	Lumens	5213.3	0.0	5213.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	2.4
10°-20°	368.7	7.1
20°-30°	605.7	11.6
30°-40°	843.9	16.2
40°-50°	1090.8	20.9
50°-60°	1265.3	24.3
60°-70°	785.3	15.1
70°-80°	116.5	2.2
80°-90°	12.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5213.3	100.0
0°-180°	5213.3	100.0

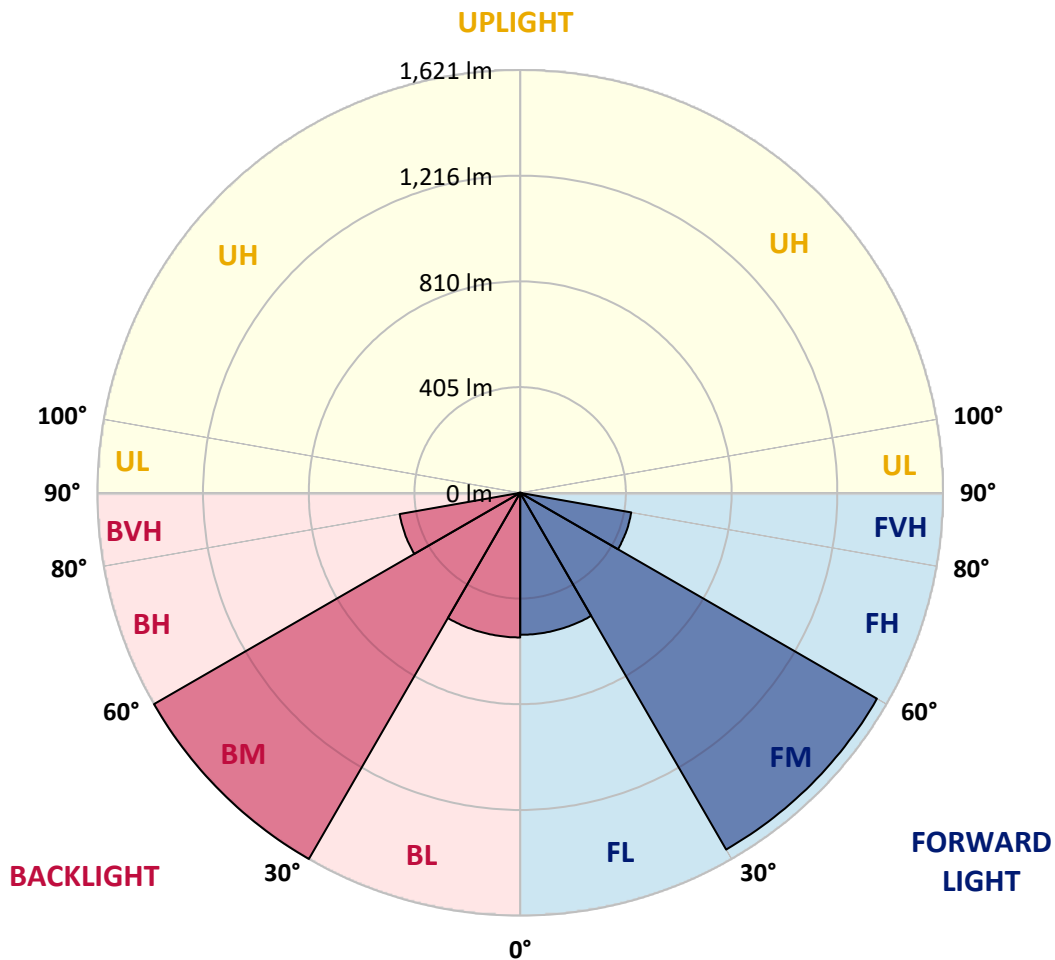


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.4	10.4			
FM	(30°-60°)	1579.1	30.3			
FH	(60°-80°)	432.6	8.3			G0/660
FVH	(80°-90°)	5.9	0.1			G0/10
BL	(0°-30°)	554.5	10.6	B2/1000		
BM	(30°-60°)	1620.9	31.1	B2/2500		
BH	(60°-80°)	469.2	9.0	B1/500		G0/660
BVH	(80°-90°)	6.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305
2.5°	1294	1303	1300	1312	1297	1298	1300	1309	1298	1305	1301
5°	1292	1300	1298	1311	1295	1295	1298	1307	1296	1304	1300
7.5°	1289	1296	1294	1306	1291	1293	1296	1305	1294	1304	1300
10°	1285	1292	1290	1303	1286	1289	1293	1302	1292	1302	1299
12.5°	1280	1287	1287	1298	1282	1286	1289	1300	1290	1299	1298
15°	1277	1285	1285	1296	1281	1283	1288	1297	1287	1299	1297
17.5°	1276	1283	1284	1294	1278	1281	1287	1295	1287	1298	1296
20°	1278	1283	1285	1294	1278	1280	1287	1296	1287	1298	1297
22.5°	1281	1286	1287	1295	1279	1281	1289	1296	1287	1300	1299
25°	1286	1291	1293	1300	1283	1286	1293	1300	1290	1303	1302
27.5°	1295	1298	1301	1306	1288	1291	1299	1306	1296	1308	1308
30°	1304	1307	1310	1314	1295	1298	1309	1314	1302	1316	1316
32.5°	1314	1316	1320	1324	1307	1309	1318	1322	1312	1325	1326
35°	1324	1327	1332	1335	1316	1319	1331	1333	1324	1338	1338
37.5°	1337	1340	1344	1348	1330	1332	1344	1346	1338	1353	1353
40°	1349	1352	1358	1361	1344	1346	1360	1362	1353	1369	1371
42.5°	1368	1369	1374	1377	1360	1361	1376	1380	1370	1389	1390
45°	1385	1385	1392	1393	1378	1380	1395	1399	1389	1408	1412
47.5°	1404	1406	1411	1412	1395	1396	1413	1416	1409	1428	1433
50°	1423	1423	1430	1428	1410	1412	1429	1432	1425	1446	1450
52.5°	1433	1432	1438	1435	1418	1420	1441	1441	1433	1455	1459
53°	1432	1431	1436	1433	1418	1419	1440	1441	1432	1454	1460
55°	1418	1417	1422	1417	1403	1405	1427	1428	1422	1444	1449
57.5°	1361	1356	1362	1353	1341	1345	1372	1378	1366	1391	1399
60°	1236	1229	1236	1227	1219	1225	1255	1265	1247	1274	1281
62.5°	1039	1031	1036	1021	1012	1031	1066	1061	1059	1071	1085
65°	793	778	756	743	737	767	810	799	801	785	797
67.5°	512	504	476	445	449	481	513	522	514	499	502
70°	271	263	257	235	237	255	286	295	280	268	267
72.5°	150	151	135	124	126	140	154	159	144	133	132
75°	94	90	80	75	73	81	92	94	84	77	77
77.5°	61	58	52	47	47	50	60	61	54	49	48
80°	39	37	33	31	30	33	37	40	34	32	32
82.5°	21	21	20	18	18	20	21	22	20	19	19
85°	7	6	5	5	5	6	8	8	8	7	8
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	159°	165°	175°	180°
0°	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305
2.5°	1298	1294	1307	1311	1308	1302	1310	1311	1319	1315	1315
5°	1298	1294	1308	1313	1310	1305	1313	1316	1322	1318	1317
7.5°	1298	1296	1308	1314	1312	1309	1316	1319	1325	1320	1319
10°	1297	1294	1308	1314	1312	1310	1319	1320	1327	1322	1320
12.5°	1297	1293	1306	1313	1312	1311	1320	1321	1327	1322	1321
15°	1296	1292	1305	1313	1314	1311	1323	1322	1328	1325	1323
17.5°	1296	1293	1305	1313	1313	1313	1326	1325	1330	1325	1324
20°	1296	1293	1305	1314	1316	1315	1327	1327	1332	1328	1326
22.5°	1297	1294	1307	1316	1317	1319	1331	1332	1335	1331	1330
25°	1301	1297	1309	1319	1321	1324	1337	1336	1341	1335	1336
27.5°	1306	1302	1314	1323	1327	1331	1345	1343	1347	1343	1340
30°	1313	1310	1321	1330	1334	1337	1352	1350	1354	1349	1348
32.5°	1325	1319	1329	1338	1343	1347	1361	1359	1361	1358	1356
35°	1337	1331	1342	1349	1355	1359	1372	1370	1371	1367	1365
37.5°	1351	1346	1355	1363	1367	1371	1386	1383	1383	1379	1375
40°	1369	1363	1370	1379	1384	1388	1403	1399	1399	1395	1390
42.5°	1389	1382	1389	1397	1403	1408	1421	1419	1417	1413	1406
45°	1409	1403	1410	1420	1424	1431	1444	1440	1438	1434	1431
47.5°	1431	1424	1430	1440	1446	1453	1469	1463	1460	1458	1454
50°	1446	1442	1447	1458	1466	1472	1489	1485	1480	1480	1476
52.5°	1456	1451	1455	1466	1474	1483	1499	1498	1493	1493	1487
53°	1457	1451	1455	1466	1473	1483	1500	1498	1493	1496	1490
55°	1447	1440	1445	1455	1462	1471	1489	1491	1487	1490	1484
57.5°	1396	1394	1394	1405	1414	1418	1437	1440	1440	1444	1437
60°	1280	1285	1282	1296	1296	1307	1326	1328	1331	1336	1326
62.5°	1074	1082	1093	1117	1110	1116	1136	1126	1127	1140	1153
65°	813	826	851	861	860	853	871	859	867	885	901
67.5°	514	536	565	567	560	528	535	562	572	596	585
70°	270	297	321	325	298	282	281	289	312	327	331
72.5°	132	152	170	172	154	137	134	142	147	170	167
75°	77	86	99	100	87	77	75	79	81	95	95
77.5°	49	54	63	62	55	48	48	50	52	60	60
80°	33	35	40	41	36	33	32	33	34	39	40
82.5°	20	22	23	24	23	21	20	21	22	23	23
85°	8	9	10	10	10	10	10	9	9	9	11
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)