

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P775988

Luminaire Tested: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B004)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K
Description: 4 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

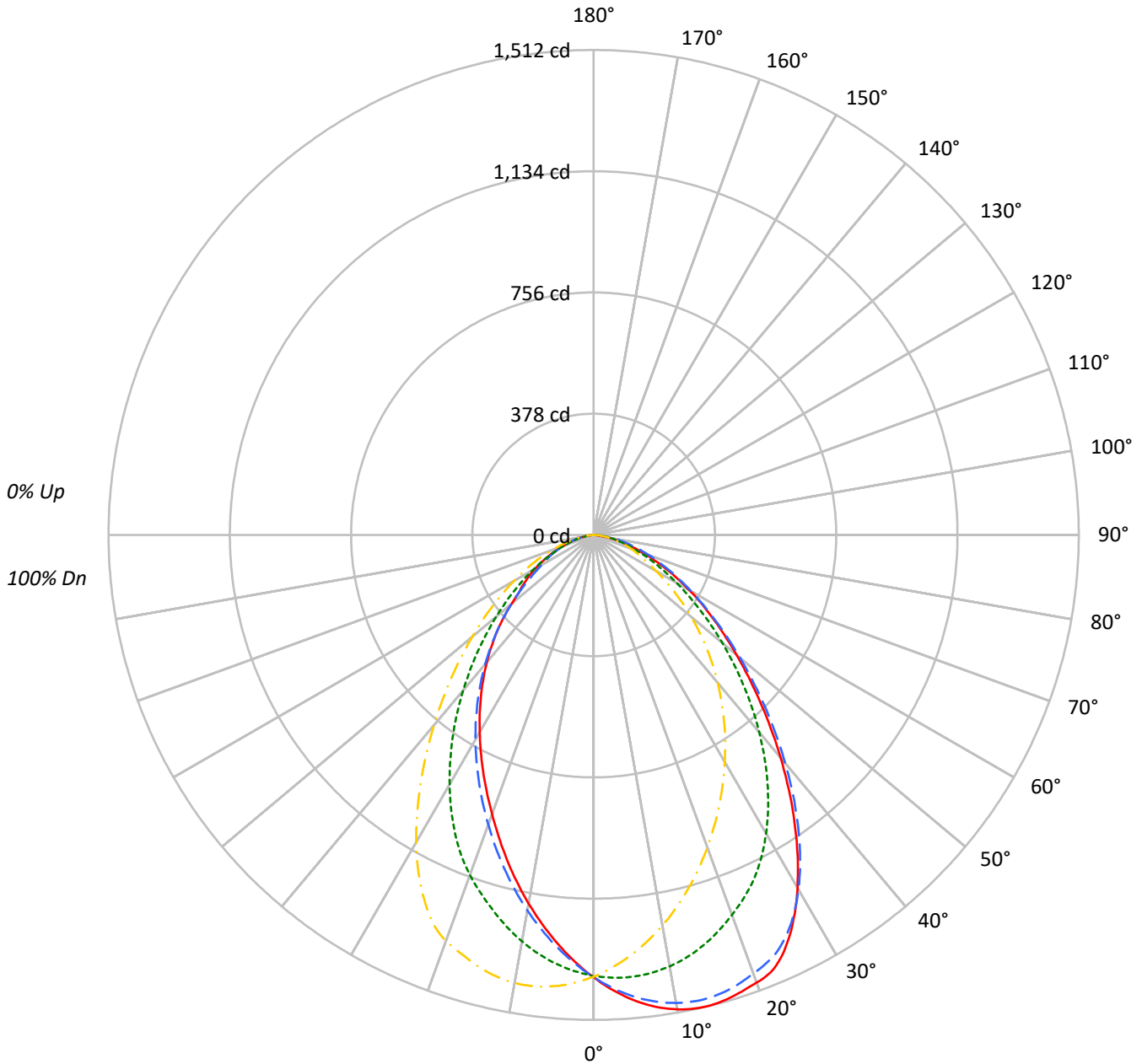
Lumens per Lamp: N/A
Luminaire Lumens: 2586.9 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.09 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT



TEST NUMBER: P775988
CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88		
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76		
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58		
5	81	70	62	56	79	69	61	55	67	60	55	65	59	54	63	58	54	52		
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46		
7	70	58	50	45	69	57	50	44	56	49	44	54	48	44	53	48	44	42		
8	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38		
9	62	49	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35		
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	173408	173408	173408	173408
5°	184064	174652	161728	169536
10°	191981	174524	149132	164442
15°	196685	172529	136335	157885
20°	198948	168868	124029	151083
25°	196737	164243	113129	142137
30°	184671	156247	103234	130525
35°	167615	145092	94070	117469
40°	148892	131839	85083	103976
45°	130423	117306	75694	90413
50°	113694	102397	65530	77591
55°	99460	88116	58539	65911
60°	86761	75032	53008	55122
65°	73553	63548	45591	45293
70°	60456	53244	37532	36502
75°	46485	44540	30439	28689
80°	29714	37034	21597	21235
85°	8808	32345	8519	9963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 134854 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	5.0
10°-20°	358.2	13.8
20°-30°	507.6	19.6
30°-40°	530.3	20.5
40°-50°	446.4	17.3
50°-60°	317.0	12.3
60°-70°	192.3	7.4
70°-80°	88.2	3.4
80°-90°	17.7	0.7
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°-30°	995.0	38.5
0°-40°	1525.4	59.0
0°-60°	2288.7	88.5
0°-90°	2586.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2586.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1378	1378	1378	1378	1378	
5°	1457	1382	1280	1342	1457	141
15°	1510	1324	1046	1212	1510	426
25°	1417	1183	815	1024	1417	647
35°	1091	944	612	765	1091	680
45°	733	659	425	508	733	567
55°	453	402	267	300	453	408
65°	247	213	153	152	247	246
75°	96	92	63	59	96	103
85°	6	22	6	7	6	12
90°	0	1	0	0	0	



TEST NUMBER: P775988

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9
0.5°	1388.6	1388.6	1387.0	1384.0	1376.6	1373.8	1372.0	1370.8	1370.8	1370.5	1371.5
1°	1397.5	1397.2	1394.2	1388.8	1378.1	1372.0	1366.9	1362.9	1361.4	1360.8	1363.4
1.5°	1405.9	1405.9	1401.5	1393.7	1379.7	1369.7	1361.1	1354.7	1351.9	1351.4	1355.0
2°	1414.0	1414.0	1408.7	1398.0	1380.9	1367.5	1355.2	1346.3	1342.0	1341.5	1346.3
2.5°	1421.9	1422.1	1415.3	1402.3	1382.0	1364.7	1349.4	1337.7	1332.1	1331.6	1337.4
3°	1429.3	1429.8	1421.9	1406.1	1382.5	1361.9	1343.3	1329.0	1322.2	1321.4	1328.8
3.5°	1436.6	1437.2	1428.0	1409.7	1383.0	1358.6	1336.7	1320.1	1312.0	1311.0	1319.9
4°	1443.8	1444.5	1433.8	1413.2	1383.0	1355.2	1330.1	1311.0	1301.3	1300.6	1310.5
4.5°	1450.4	1451.4	1439.4	1416.5	1383.0	1351.4	1323.2	1301.6	1290.6	1290.4	1301.1
5°	1457.0	1458.0	1444.8	1419.3	1382.5	1347.6	1316.1	1292.2	1280.2	1279.4	1291.7
5.5°	1462.8	1464.4	1449.9	1421.9	1382.2	1343.5	1309.0	1282.5	1269.3	1268.3	1282.0
6°	1468.7	1470.5	1454.7	1424.4	1381.2	1339.2	1301.3	1272.8	1258.3	1257.3	1272.1
6.5°	1474.0	1476.1	1459.0	1426.5	1380.2	1334.9	1293.9	1263.2	1247.4	1246.4	1262.1
7°	1479.1	1481.4	1463.4	1428.2	1378.9	1330.1	1286.3	1253.0	1235.9	1235.4	1252.2
7.5°	1484.0	1486.5	1467.2	1429.8	1377.1	1325.0	1278.2	1242.8	1224.8	1224.0	1241.8
8°	1488.3	1491.1	1470.7	1430.8	1375.3	1319.9	1270.0	1232.6	1213.3	1212.5	1231.4
8.5°	1492.1	1495.4	1474.0	1431.8	1373.3	1314.3	1261.6	1222.2	1201.9	1201.1	1220.9
9°	1495.9	1499.5	1477.1	1432.6	1371.0	1309.0	1253.5	1211.8	1190.2	1189.4	1210.5
9.5°	1499.2	1503.0	1479.6	1433.1	1368.5	1303.1	1244.6	1201.1	1178.5	1178.0	1199.8
10°	1502.3	1506.3	1481.9	1433.1	1365.7	1297.0	1235.9	1190.4	1167.0	1166.0	1188.9
10.5°	1504.8	1509.1	1483.7	1432.8	1362.6	1290.6	1226.8	1179.7	1155.1	1154.0	1178.0
11°	1506.8	1511.7	1485.5	1432.6	1359.3	1284.3	1218.4	1168.5	1143.1	1142.3	1167.0
11.5°	1508.6	1513.7	1486.5	1431.6	1355.8	1277.9	1208.7	1157.6	1131.4	1130.6	1156.1
12°	1509.9	1515.5	1487.5	1430.5	1351.9	1271.1	1199.3	1146.4	1119.2	1118.4	1144.9
12.5°	1510.9	1516.8	1488.0	1429.3	1347.9	1264.2	1189.7	1135.5	1107.2	1106.5	1133.4
13°	1511.4	1517.8	1488.3	1427.5	1343.5	1257.1	1180.5	1124.0	1095.3	1094.3	1122.5
13.5°	1511.7	1518.3	1488.0	1425.5	1339.0	1249.7	1170.8	1113.1	1083.1	1082.3	1111.1
14°	1511.2	1518.5	1487.5	1423.2	1334.4	1242.1	1160.9	1101.4	1070.9	1069.9	1099.6
14.5°	1510.7	1518.3	1486.5	1420.6	1329.0	1234.4	1151.0	1089.9	1058.9	1057.6	1088.2
15°	1509.6	1517.5	1485.2	1417.6	1324.2	1226.8	1140.8	1078.2	1046.4	1045.7	1076.5
15.5°	1508.1	1516.5	1483.7	1414.5	1318.6	1218.7	1130.9	1066.8	1034.2	1033.5	1065.0
16°	1506.6	1515.0	1481.7	1411.0	1312.8	1210.5	1120.7	1055.4	1022.0	1021.0	1053.6
16.5°	1504.3	1513.2	1479.4	1407.1	1306.9	1202.1	1110.3	1043.9	1010.1	1008.8	1042.1
17°	1502.0	1511.2	1476.6	1403.1	1300.8	1194.0	1100.1	1032.2	997.6	996.6	1030.4
17.5°	1499.2	1508.9	1473.8	1398.7	1294.2	1185.1	1089.4	1020.5	985.4	984.6	1019.0
18°	1496.4	1506.1	1470.5	1394.2	1287.8	1176.4	1079.0	1008.8	973.4	972.2	1007.3
18.5°	1493.1	1503.0	1466.9	1389.3	1281.2	1167.5	1068.3	996.8	961.5	960.2	995.6
19°	1490.3	1499.7	1463.1	1384.5	1274.6	1158.9	1058.2	985.1	949.5	948.0	984.1
19.5°	1488.0	1496.7	1459.3	1379.2	1267.7	1150.0	1047.0	973.7	938.1	936.3	972.4
20°	1485.5	1494.1	1455.2	1373.8	1260.9	1141.1	1036.3	962.0	926.1	924.4	961.0
20.5°	1482.7	1491.3	1451.4	1368.7	1253.8	1131.9	1025.6	950.3	914.9	912.9	949.3
21°	1479.4	1488.3	1447.8	1363.6	1246.6	1122.8	1014.9	939.1	903.2	901.2	937.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1465.4	1476.3	1434.6	1346.9	1224.5	1095.0	982.1	905.3	869.7	867.1	903.5
23°	1457.5	1470.5	1429.3	1340.7	1216.6	1085.6	971.4	894.3	858.2	855.9	892.1
23.5°	1448.6	1463.6	1423.4	1334.1	1208.5	1076.0	960.2	883.1	847.5	845.2	880.9
24°	1439.2	1455.2	1415.8	1326.8	1200.1	1066.3	949.3	872.2	836.6	833.8	869.4
24.5°	1428.8	1445.5	1407.4	1319.1	1191.4	1056.1	938.1	861.5	825.7	822.6	858.2
25°	1416.8	1435.9	1398.5	1310.5	1182.8	1045.9	927.4	850.3	814.7	811.9	847.0
25.5°	1404.6	1425.7	1388.8	1301.3	1173.1	1035.8	916.5	839.9	804.3	801.2	835.8
26°	1392.4	1414.3	1378.6	1291.7	1163.7	1025.3	905.5	829.0	793.6	790.6	824.6
26.5°	1378.9	1401.5	1368.0	1281.2	1153.3	1014.7	894.1	818.5	782.9	779.6	813.5
27°	1364.7	1389.3	1356.8	1270.3	1143.1	1004.2	883.1	807.6	772.2	769.2	802.3
27.5°	1349.7	1376.1	1344.6	1259.1	1132.2	993.3	872.2	797.2	762.1	758.8	791.6
28°	1335.4	1361.9	1331.8	1247.1	1121.5	982.4	861.3	786.5	751.4	748.3	780.4
28.5°	1319.4	1347.4	1318.9	1235.2	1110.0	971.4	850.1	776.3	741.5	737.9	769.4
29°	1303.4	1332.6	1305.4	1222.5	1098.6	960.0	839.1	765.9	731.0	727.5	758.5
29.5°	1287.1	1317.1	1291.1	1209.8	1086.6	949.0	828.5	755.5	720.6	717.3	747.6
30°	1270.8	1301.3	1276.6	1196.5	1075.2	937.3	817.3	745.3	710.4	707.1	736.9
30.5°	1253.2	1285.0	1261.6	1182.8	1062.7	925.6	806.3	735.1	700.5	697.0	726.0
31°	1235.9	1268.3	1246.1	1169.1	1050.3	914.2	795.4	724.7	690.3	686.8	715.0
31.5°	1218.4	1251.0	1230.4	1154.6	1037.5	902.2	784.5	714.3	680.7	676.4	704.1
32°	1200.6	1233.9	1214.3	1140.1	1025.1	890.5	773.5	704.1	670.5	666.4	693.6
32.5°	1182.5	1216.4	1197.5	1125.6	1011.9	878.8	762.8	694.2	660.8	656.5	682.7
33°	1164.7	1198.6	1181.0	1110.8	998.6	866.6	751.6	684.0	650.9	646.6	672.0
33.5°	1146.7	1180.2	1164.0	1095.3	985.4	854.7	741.0	674.1	641.2	636.7	661.1
34°	1128.4	1162.4	1146.7	1079.8	971.9	842.5	729.8	664.1	631.6	626.8	650.7
34.5°	1109.3	1143.4	1128.4	1064.3	958.2	830.2	719.1	654.0	621.9	616.8	640.0
35°	1091.0	1125.0	1110.8	1048.2	944.4	818.0	708.1	644.0	612.3	607.2	629.3
35.5°	1072.6	1106.2	1093.0	1032.2	930.7	806.1	697.5	634.1	603.1	597.5	618.9
36°	1054.3	1088.2	1074.9	1015.9	916.7	793.9	686.5	624.5	593.2	587.6	608.7
36.5°	1035.5	1069.3	1056.6	999.6	902.7	781.1	675.8	614.5	584.0	577.9	598.0
37°	1016.4	1050.0	1038.8	983.1	888.5	768.9	664.9	604.6	574.1	568.2	587.6
37.5°	998.4	1031.2	1020.5	966.6	874.2	757.0	654.2	595.0	564.9	558.6	577.4
38°	979.8	1012.4	1002.2	949.8	860.0	744.3	643.3	585.3	555.3	549.2	567.0
38.5°	961.2	993.3	983.4	933.0	845.8	732.1	633.1	575.6	545.9	539.5	556.5
39°	942.4	975.0	965.6	916.2	831.5	719.6	622.2	565.7	536.7	530.1	546.6
39.5°	924.6	956.2	947.0	899.4	817.0	707.4	611.7	556.0	527.5	520.4	536.2
40°	906.3	937.1	928.9	882.6	802.5	694.7	601.1	546.4	517.9	511.0	526.3
40.5°	887.7	918.3	910.4	865.9	788.0	682.5	590.4	536.5	508.5	501.3	515.8
41°	869.7	900.2	892.8	848.8	773.5	670.0	579.9	527.0	499.3	491.7	506.2
41.5°	852.1	881.9	874.5	832.3	759.5	657.8	569.5	517.4	490.2	482.3	496.0
42°	834.6	863.3	856.9	815.7	744.8	645.3	558.8	507.7	480.7	473.1	486.1
42.5°	816.8	845.0	839.1	799.0	730.5	633.4	548.4	498.3	471.3	463.7	476.4
43°	799.7	827.7	821.3	782.9	716.3	621.2	538.2	488.9	462.2	454.3	466.5
43.5°	782.9	809.9	803.8	766.1	701.8	608.9	527.5	479.2	453.0	444.9	456.3

TEST NUMBER: P775988

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	732.8	757.7	752.7	718.1	659.1	572.6	497.0	450.7	425.3	417.2	427.6
45.5°	716.8	741.0	735.9	701.8	645.1	560.6	486.6	441.1	416.4	408.0	417.9
46°	700.5	724.2	719.3	686.3	631.1	548.7	476.4	431.9	407.2	398.8	408.3
46.5°	684.2	707.9	703.3	670.8	617.3	537.0	466.2	422.5	398.1	389.4	398.8
47°	669.2	691.9	686.8	655.5	603.1	525.0	456.1	413.1	388.9	380.5	389.9
47.5°	654.0	675.6	670.8	640.0	589.4	513.3	446.2	403.9	379.5	371.4	380.0
48°	638.5	659.6	655.2	625.0	575.9	501.9	436.0	394.8	370.9	362.5	370.9
48.5°	623.7	644.8	640.0	610.5	562.7	490.4	426.3	385.4	361.7	353.3	361.7
49°	609.7	629.5	625.0	596.0	549.2	478.7	416.4	376.5	352.5	344.7	353.1
49.5°	595.2	614.3	610.0	581.5	535.9	467.8	406.5	367.3	343.6	335.8	343.6
50°	580.7	599.5	595.0	567.5	523.0	456.3	396.8	358.1	334.7	327.1	335.0
50.5°	567.5	585.5	580.5	553.0	510.0	445.1	387.1	349.0	325.6	318.5	326.1
51°	553.7	571.6	566.0	539.5	497.5	434.2	377.5	340.1	316.9	309.6	317.4
51.5°	540.0	557.1	552.2	525.8	485.1	423.3	368.1	331.2	308.5	301.4	308.8
52°	527.3	543.8	538.7	512.5	472.4	412.6	358.7	322.5	299.6	293.3	300.4
52.5°	514.8	530.9	525.0	499.6	460.1	401.6	349.2	313.6	291.8	284.9	291.8
53°	501.6	517.1	511.8	486.3	448.2	391.2	340.1	305.0	287.4	276.7	283.6
53.5°	488.9	504.4	498.8	473.6	436.2	380.8	330.7	296.6	282.9	269.1	275.5
54°	477.4	491.9	485.8	461.2	424.3	370.4	321.8	288.2	277.8	264.5	267.6
54.5°	465.5	479.7	473.4	449.0	412.8	360.2	312.9	280.1	272.2	259.7	259.7
55°	453.3	467.5	461.2	436.7	401.6	350.3	304.2	272.2	266.8	254.6	252.1
55.5°	442.6	455.6	449.2	425.0	390.4	340.3	295.6	264.0	261.0	249.3	244.7
56°	431.1	443.9	437.3	413.1	379.3	330.7	286.9	258.2	255.4	243.9	237.3
56.5°	419.7	432.4	425.8	401.9	368.3	321.0	278.3	253.6	249.8	238.3	230.2
57°	408.8	421.0	414.4	390.7	357.9	311.6	270.1	248.5	243.9	233.0	223.3
57.5°	398.1	410.3	403.2	379.8	347.5	302.2	262.0	243.4	238.3	227.7	217.2
58°	386.6	399.3	392.2	368.8	337.3	293.3	254.1	238.1	233.0	222.3	211.1
58.5°	376.2	388.4	381.5	358.4	327.1	284.4	246.5	232.7	227.4	217.0	205.0
59°	365.3	378.0	370.9	348.0	317.2	275.5	238.8	227.1	221.8	211.9	198.9
59.5°	354.6	367.3	360.7	337.8	307.5	266.8	231.2	221.8	216.2	206.8	192.8
60°	344.7	356.9	350.5	327.6	298.1	258.4	223.8	216.7	210.6	201.5	188.2
60.5°	333.5	346.7	340.6	318.0	288.7	250.3	217.2	211.4	205.0	196.4	183.7
61°	323.8	335.8	330.4	308.3	279.8	242.2	210.6	206.0	199.4	191.0	179.1
61.5°	313.6	326.3	321.3	299.1	270.6	234.0	204.0	200.9	193.8	185.9	174.5
62°	304.0	316.4	311.8	289.7	262.0	226.6	197.4	195.6	188.0	180.9	169.9
62.5°	294.0	306.5	302.4	280.8	253.3	219.3	190.8	190.0	182.1	175.5	165.3
63°	284.1	297.1	293.3	271.7	245.0	212.1	184.4	184.7	176.3	170.2	160.8
63.5°	274.7	287.4	284.4	263.0	236.6	204.8	178.8	179.1	170.4	165.1	156.2
64°	265.0	278.3	275.7	254.4	228.4	197.6	173.5	173.7	164.6	159.7	152.1
64.5°	256.1	268.9	267.1	246.2	221.0	190.3	168.9	168.4	158.7	154.4	147.8
65°	247.0	260.2	258.7	238.1	213.4	183.9	164.6	163.3	153.1	149.3	143.5
65.5°	238.3	251.1	250.3	230.2	205.8	177.3	160.2	157.7	147.5	144.0	139.1
66°	229.2	242.7	242.2	222.3	198.4	170.4	155.7	152.6	141.9	138.9	135.1



TEST NUMBER: P775988

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	204.0	217.2	218.2	199.7	177.0	152.6	142.7	137.1	125.7	123.9	122.6
68°	195.6	209.1	210.6	192.6	169.9	146.8	138.4	132.0	120.6	118.8	118.5
68.5°	187.5	201.2	203.2	185.2	163.6	141.2	134.3	127.2	115.7	114.2	114.5
69°	179.8	193.3	195.9	178.3	157.2	135.8	130.0	122.1	110.9	109.4	110.4
69.5°	171.9	185.4	188.2	171.4	150.8	130.5	125.7	117.3	106.6	105.1	106.3
70°	164.3	178.1	181.4	165.1	144.7	125.4	121.6	112.4	102.0	100.7	102.3
70.5°	156.7	170.7	174.5	158.2	138.6	120.6	117.5	108.1	97.7	96.4	98.2
71°	149.3	163.3	167.6	152.1	133.0	115.7	113.4	103.5	93.6	92.3	94.4
71.5°	142.2	156.2	160.5	145.8	127.2	111.2	109.4	99.2	89.5	88.3	90.3
72°	135.3	149.1	154.1	139.6	121.8	106.6	105.3	95.1	85.5	84.2	86.5
72.5°	128.2	142.4	147.5	133.8	116.2	102.3	101.2	91.1	81.4	80.4	82.7
73°	121.3	135.8	141.2	127.7	111.2	98.2	97.4	87.0	77.6	76.6	78.9
73.5°	114.7	129.0	134.8	122.1	105.8	93.9	93.4	83.2	73.8	72.7	75.0
74°	108.1	122.9	128.7	116.8	101.0	89.8	89.5	79.4	69.9	68.9	71.5
74.5°	101.7	116.5	122.9	111.2	96.1	86.0	86.0	75.5	66.4	65.4	68.2
75°	95.6	110.4	116.8	105.8	91.6	82.2	81.9	72.0	62.6	61.6	64.6
75.5°	89.8	104.3	110.9	100.7	87.0	78.3	78.3	68.4	59.0	58.0	61.3
76°	83.9	98.7	105.3	95.6	82.7	74.8	74.5	64.6	55.7	54.4	58.0
76.5°	78.3	92.8	99.7	90.8	78.3	71.2	71.2	61.0	52.1	51.1	54.7
77°	72.5	87.5	94.4	86.2	74.3	67.9	67.7	57.7	48.8	47.6	51.4
77.5°	66.9	82.4	89.3	81.4	69.9	64.6	64.4	54.4	45.5	44.3	48.3
78°	61.6	77.1	84.4	76.8	66.1	61.3	60.8	50.9	42.2	41.0	45.0
78.5°	56.0	71.7	79.4	72.2	62.1	58.2	57.7	47.6	38.9	37.6	42.0
79°	50.9	66.6	74.3	67.9	58.5	55.5	54.4	44.3	35.9	34.6	38.9
79.5°	45.8	61.8	69.4	63.6	54.7	52.4	51.1	41.2	32.8	31.5	35.9
80°	41.0	57.0	64.6	59.5	51.1	49.6	48.1	37.9	29.8	28.5	33.1
80.5°	36.1	52.1	60.3	55.5	47.8	46.8	45.0	34.8	26.7	25.7	30.3
81°	31.5	47.8	56.0	51.6	44.5	44.0	42.0	31.8	23.9	23.1	27.7
81.5°	27.0	43.5	51.4	47.8	41.5	41.2	39.2	29.0	21.1	20.6	24.9
82°	22.4	39.4	47.3	44.3	38.4	38.4	36.1	25.9	18.3	18.1	22.6
82.5°	18.3	35.4	43.5	40.7	35.4	35.6	33.3	23.7	15.5	15.5	20.3
83°	14.2	31.5	39.7	37.4	32.6	33.1	30.5	21.1	12.7	13.0	18.1
83.5°	10.4	28.0	36.1	34.1	29.8	30.5	28.0	18.6	10.2	11.2	15.8
84°	9.2	24.7	32.6	30.8	27.2	27.7	25.4	16.3	8.1	9.7	13.5
84.5°	7.6	21.9	29.3	27.7	24.7	25.4	23.1	13.7	6.6	8.4	11.4
85°	6.1	19.3	25.9	24.7	22.4	22.9	20.6	12.2	5.9	7.1	9.4
85.5°	4.6	16.8	22.9	21.9	19.8	20.6	18.3	10.7	4.8	5.9	7.4
86°	3.3	14.5	19.8	19.1	17.6	18.1	16.0	9.2	4.1	4.6	5.6
86.5°	2.5	12.2	16.8	16.3	15.0	15.5	13.5	7.6	3.3	3.6	3.6
87°	1.8	9.9	14.0	13.7	12.7	13.2	11.4	6.4	2.5	2.3	1.8
87.5°	1.3	7.6	11.2	11.2	10.7	10.9	9.2	4.8	1.5	1.3	0.5
88°	0.5	5.6	8.6	8.9	8.6	8.9	7.1	3.6	0.8	0.5	0.3
88.5°	0.3	3.6	6.6	6.9	6.6	6.6	5.1	2.0	0.3	0.3	0.0



TEST NUMBER: P775988

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.3	0.3	0.8	1.3	1.0	0.5	0.3	0.0	0.3	0.0



TEST NUMBER: P775988

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1377.9	1377.9	1377.9	1377.9	1377.9	1377.9
0.5°	1373.3	1372.3	1376.9	1381.7	1385.8	1388.6
1°	1367.7	1370.0	1378.1	1386.3	1392.9	1397.5
1.5°	1361.9	1367.5	1378.9	1390.3	1399.8	1405.9
2°	1355.8	1364.1	1379.4	1394.4	1406.6	1414.0
2.5°	1349.4	1361.4	1379.9	1398.2	1412.7	1421.9
3°	1343.0	1358.0	1379.9	1401.5	1418.8	1429.3
3.5°	1336.2	1354.5	1379.9	1404.8	1424.7	1436.6
4°	1329.3	1350.7	1379.4	1407.6	1430.0	1443.8
4.5°	1322.4	1346.3	1378.6	1410.2	1435.4	1450.4
5°	1314.8	1342.0	1377.9	1412.5	1440.2	1457.0
5.5°	1307.4	1337.7	1376.6	1414.5	1445.0	1462.8
6°	1299.8	1332.9	1375.3	1416.0	1449.1	1468.7
6.5°	1292.2	1327.8	1373.3	1417.6	1453.2	1474.0
7°	1284.0	1322.7	1371.5	1418.6	1456.5	1479.1
7.5°	1275.9	1317.1	1369.2	1419.3	1459.8	1484.0
8°	1267.5	1311.5	1366.4	1419.9	1462.6	1488.3
8.5°	1258.8	1305.4	1363.6	1419.9	1465.1	1492.1
9°	1250.2	1299.5	1360.6	1419.9	1467.4	1495.9
9.5°	1241.5	1293.2	1357.3	1419.3	1469.2	1499.2
10°	1232.6	1286.8	1353.7	1418.3	1470.7	1502.3
10.5°	1223.5	1280.0	1349.9	1417.3	1472.0	1504.8
11°	1214.1	1273.3	1345.6	1415.8	1472.8	1506.8
11.5°	1204.7	1266.0	1341.0	1414.0	1473.0	1508.6
12°	1195.3	1258.8	1336.4	1411.7	1473.0	1509.9
12.5°	1185.6	1251.2	1331.3	1409.2	1472.5	1510.9
13°	1176.2	1243.6	1326.2	1406.4	1471.7	1511.4
13.5°	1166.5	1235.7	1320.9	1403.3	1470.5	1511.7
14°	<i>1156.3</i>	<i>1228.1</i>	<i>1315.3</i>	<i>1400.0</i>	<i>1468.9</i>	<i>1511.2</i>
14.5°	1146.2	1219.9	1309.5	1396.5	1467.2	1510.7
15°	1136.2	1211.8	1303.6	1392.4	1464.9	1509.6
15.5°	1126.3	1203.6	1297.5	1388.1	1462.3	1508.1
16°	1116.1	1195.8	1291.4	1383.7	1459.5	1506.6
16.5°	1106.0	1187.4	1285.0	1379.4	1456.5	1504.3
17°	1096.3	1179.2	1278.9	1374.6	1453.2	1502.0
17.5°	1085.9	1171.1	1272.8	1369.7	1449.6	1499.2
18°	1075.4	1162.7	1266.7	1365.7	1445.8	1496.4
18.5°	1065.0	1154.3	1260.1	1361.4	1442.7	1493.1
19°	1054.8	1145.7	1254.0	1356.8	1439.9	1490.3
19.5°	1044.7	1137.3	1246.9	1351.7	1436.9	1488.0
20°	1034.5	1128.1	1239.5	1346.3	1433.1	1485.5
20.5°	1024.1	1118.9	1232.1	1340.7	1429.0	1482.7
21°	1013.4	1109.3	1224.0	1334.4	1424.4	1479.4

TEST NUMBER: P775988

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	981.1	1079.5	1196.0	1309.2	1404.3	1465.4
23°	969.9	1069.1	1185.6	1298.8	1395.2	1457.5
23.5°	958.9	1058.2	1174.4	1288.1	1385.3	1448.6
24°	947.8	1046.7	1162.9	1276.6	1374.6	1439.2
24.5°	936.8	1035.3	1150.5	1264.2	1363.4	1428.8
25°	925.4	1023.6	1138.5	1251.7	1351.2	1416.8
25.5°	913.9	1011.6	1126.1	1239.3	1337.9	1404.6
26°	902.2	999.4	1113.1	1226.0	1324.7	1392.4
26.5°	890.5	987.4	1099.9	1212.0	1311.0	1378.9
27°	879.1	975.2	1086.6	1198.3	1296.2	1364.7
27.5°	867.1	962.5	1073.2	1183.6	1280.7	1349.7
28°	855.2	949.5	1059.4	1168.3	1265.2	1335.4
28.5°	843.2	937.3	1045.4	1153.3	1249.7	1319.4
29°	831.3	924.1	1031.2	1138.0	1233.7	1303.4
29.5°	819.3	911.4	1017.2	1121.7	1216.9	1287.1
30°	807.1	898.2	1003.0	1106.0	1200.6	1270.8
30.5°	794.9	885.2	987.9	1089.4	1183.0	1253.2
31°	782.7	872.0	973.4	1073.2	1166.0	1235.9
31.5°	770.7	858.7	958.4	1056.9	1148.4	1218.4
32°	758.8	845.0	943.2	1039.6	1130.9	1200.6
32.5°	746.3	832.0	928.4	1023.0	1112.8	1182.5
33°	734.3	818.3	913.2	1006.3	1095.5	1164.7
33.5°	722.4	805.3	898.2	989.5	1077.7	1146.7
34°	710.7	791.6	882.4	972.7	1059.9	1128.4
34.5°	698.5	778.4	867.1	955.4	1041.9	1109.3
35°	686.3	764.6	851.6	938.6	1024.1	1091.0
35.5°	674.3	751.6	836.6	921.8	1006.0	1072.6
36°	662.6	738.7	821.1	905.0	988.7	1054.3
36.5°	650.7	724.9	805.8	888.5	970.6	1035.5
37°	639.0	711.5	790.8	871.7	953.1	1016.4
37.5°	627.0	698.5	775.3	855.2	934.8	998.4
38°	615.6	685.3	760.3	838.6	917.2	979.8
38.5°	603.9	672.0	745.3	822.6	899.9	961.2
39°	592.7	658.8	730.3	806.3	882.1	942.4
39.5°	581.0	645.8	715.8	790.3	865.3	924.6
40°	569.3	632.9	700.5	774.0	847.8	906.3
40.5°	558.1	619.9	686.5	758.5	831.0	887.7
41°	546.9	606.9	672.0	742.5	813.2	869.7
41.5°	535.7	593.9	657.8	727.5	797.2	852.1
42°	524.5	581.5	643.5	712.2	780.9	834.6
42.5°	513.6	569.0	629.8	697.2	764.4	816.8
43°	502.4	556.5	616.1	681.9	747.6	799.7
43.5°	491.7	544.3	602.3	667.4	732.1	782.9

TEST NUMBER: P775988

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	459.4	508.0	562.7	624.5	684.7	732.8
45.5°	448.7	496.3	549.9	610.5	670.2	716.8
46°	438.5	484.6	537.2	596.5	655.5	700.5
46.5°	428.1	472.9	524.5	583.3	640.7	684.2
47°	417.4	461.7	512.3	569.8	625.5	669.2
47.5°	407.5	450.2	500.1	556.5	611.5	654.0
48°	397.6	439.0	488.1	543.3	597.8	638.5
48.5°	387.6	428.1	476.2	530.9	584.0	623.7
49°	378.0	417.4	464.5	518.4	570.0	609.7
49.5°	368.1	407.0	453.0	506.2	557.1	595.2
50°	358.4	396.3	441.8	493.5	543.6	580.7
50.5°	349.0	386.1	430.4	481.8	530.6	567.5
51°	339.6	375.9	419.7	469.8	517.6	553.7
51.5°	330.7	366.0	408.8	458.4	505.7	540.0
52°	321.5	356.4	398.3	447.2	493.2	527.3
52.5°	312.6	346.7	387.6	435.5	481.0	514.8
53°	303.7	337.0	377.7	424.5	469.3	501.6
53.5°	295.3	327.6	367.3	413.6	457.6	488.9
54°	286.9	318.5	357.4	402.9	445.9	477.4
54.5°	278.3	309.1	347.2	392.5	435.0	465.5
55°	270.1	300.4	338.0	382.1	423.8	453.3
55.5°	262.2	291.5	328.6	371.9	412.8	442.6
56°	254.4	282.9	319.2	362.0	401.9	431.1
56.5°	246.5	274.5	310.1	352.0	391.7	419.7
57°	238.8	266.1	301.2	342.4	381.3	408.8
57.5°	231.7	257.7	292.0	332.7	371.1	398.1
58°	224.3	250.0	283.4	323.5	361.4	386.6
58.5°	217.5	241.9	274.7	314.4	351.5	376.2
59°	210.9	234.3	266.3	305.5	341.9	365.3
59.5°	204.0	226.6	258.2	296.3	332.2	354.6
60°	197.1	219.0	250.0	287.4	322.5	344.7
60.5°	190.3	211.6	241.9	279.0	313.1	333.5
61°	183.9	204.5	234.3	270.6	303.7	323.8
61.5°	177.5	197.4	226.4	262.2	294.3	313.6
62°	171.7	190.5	219.0	254.1	285.1	304.0
62.5°	165.8	183.9	211.4	246.0	275.7	294.0
63°	159.7	177.3	204.3	238.1	266.8	284.1
63.5°	154.1	170.7	196.9	230.5	257.9	274.7
64°	148.8	164.3	190.0	222.8	249.3	265.0
64.5°	143.5	158.2	183.1	215.2	240.9	256.1
65°	138.4	152.1	176.5	208.1	232.2	247.0
65.5°	133.3	146.0	169.7	200.4	224.1	238.3
66°	128.2	140.4	163.3	193.3	215.7	229.2



TEST NUMBER: P775988

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	114.5	123.9	144.5	172.7	192.3	204.0
68°	110.1	118.8	138.6	166.1	184.7	195.6
68.5°	106.1	113.4	132.8	159.2	177.3	187.5
69°	102.0	108.6	127.2	152.9	169.9	179.8
69.5°	97.9	103.8	121.6	146.5	162.8	171.9
70°	94.4	99.2	116.2	140.4	155.4	164.3
70.5°	90.8	94.6	110.9	134.0	148.5	156.7
71°	87.5	91.6	105.8	128.2	141.7	149.3
71.5°	83.9	87.2	100.7	122.3	135.1	142.2
72°	80.6	82.9	95.9	116.5	128.7	135.3
72.5°	77.3	78.3	90.6	110.9	122.3	128.2
73°	74.3	74.0	86.2	105.3	116.0	121.3
73.5°	71.0	70.2	81.9	100.0	109.9	114.7
74°	67.9	66.4	77.6	94.6	104.0	108.1
74.5°	64.9	62.8	73.3	89.8	98.2	101.7
75°	61.6	59.0	69.2	84.7	92.8	95.6
75.5°	58.8	55.7	65.1	79.9	87.5	89.8
76°	55.7	52.4	61.0	74.8	82.4	83.9
76.5°	52.7	49.1	57.0	69.9	77.1	78.3
77°	49.6	46.0	53.4	65.4	72.0	72.5
77.5°	46.8	43.0	49.6	61.0	66.6	66.9
78°	44.0	40.2	46.3	56.7	62.1	61.6
78.5°	41.2	37.4	42.7	52.4	57.2	56.0
79°	38.4	34.6	39.4	48.6	52.7	50.9
79.5°	35.6	31.8	36.4	44.5	48.3	45.8
80°	32.8	29.3	33.1	40.7	44.0	41.0
80.5°	30.3	26.7	30.3	37.1	40.2	36.1
81°	27.7	24.2	27.5	33.6	36.4	31.5
81.5°	25.2	21.9	24.4	30.3	32.6	27.0
82°	22.6	19.6	21.9	27.0	29.0	22.4
82.5°	20.3	17.3	19.3	23.9	25.9	18.3
83°	17.8	15.0	16.8	21.1	22.6	14.2
83.5°	15.5	12.7	14.2	18.3	19.8	10.4
84°	13.0	10.7	12.0	15.5	17.3	9.2
84.5°	10.7	8.6	9.7	13.0	15.0	7.6
85°	8.4	6.9	7.6	10.4	12.7	6.1
85.5°	6.4	5.1	5.6	8.4	10.4	4.6
86°	4.3	3.3	3.8	6.4	8.4	3.3
86.5°	2.3	1.3	1.8	4.3	6.6	2.5
87°	0.8	0.3	0.5	2.3	4.6	1.8
87.5°	0.3	0.0	0.3	0.5	2.5	1.3
88°	0.0	0.0	0.0	0.0	0.5	0.5
88.5°	0.0	0.0	0.0	0.0	0.3	0.3



TEST NUMBER: P775988
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.3	0.0



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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°

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Scaled Data Report



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Scaled Data Report





21.5°	1475.6	1484.7	1443.8	1358.3	1239.5	1113.6	1004.0	927.7	892.1	889.8	926.1
22°	1471.2	1480.9	1439.4	1352.7	1231.9	1104.2	992.8	916.5	880.9	878.3	914.7



44°	765.6	792.1	787.0	749.9	687.3	596.5	517.4	469.6	443.6	435.7	446.7
44.5°	748.8	774.3	769.7	733.8	673.0	584.5	507.2	460.1	434.5	426.3	437.3



66.5°	220.8	234.0	234.0	214.7	190.8	164.3	151.3	147.5	136.3	133.8	130.7
67°	212.1	225.4	226.1	206.8	183.9	158.5	147.0	142.2	131.0	128.7	126.7



89°	0.0	1.5	4.6	4.8	4.6	4.6	3.1	1.0	0.0	0.3	0.0
89.5°	0.0	0.3	2.5	2.8	2.8	2.5	1.5	0.3	0.0	0.3	0.0

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21.5°	1002.7	1099.6	1215.6	1327.0	1419.1	1475.6
22°	992.0	1089.9	1206.2	1318.9	1412.2	1471.2



44°	480.7	531.6	588.9	652.7	716.5	765.6
44.5°	470.1	519.7	575.6	638.7	701.0	748.8



66.5°	123.6	134.8	156.9	186.4	207.8	220.8
67°	119.0	129.2	150.6	179.3	199.9	212.1

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89°	0.0	0.0	0.0	0.0	0.3	0.0
89.5°	0.0	0.0	0.0	0.0	0.3	0.0

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(END OF REPORT)