

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: P776086

Luminaire Tested: HCDJBL51525CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B013)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K
Description: 6 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

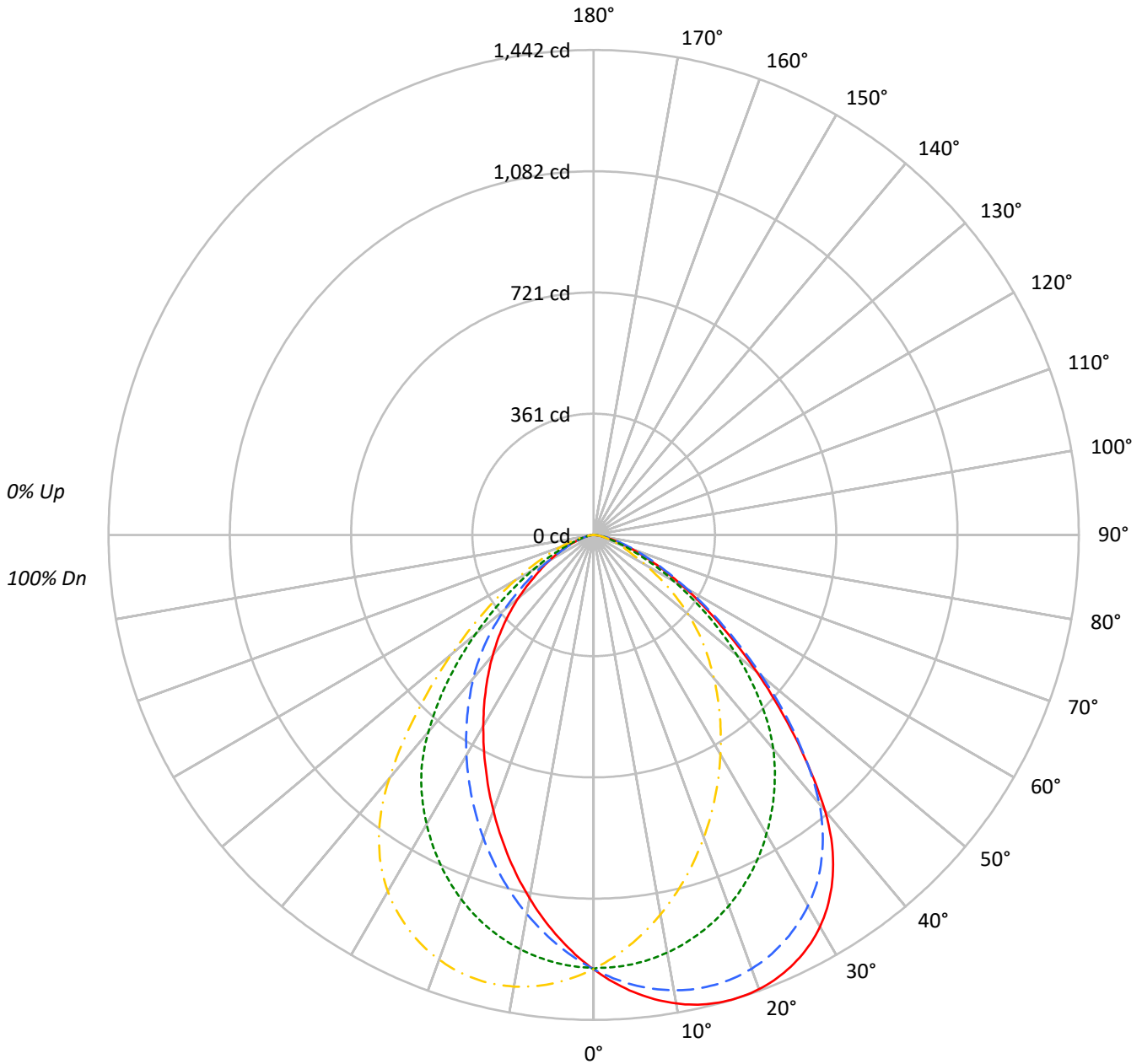
Lumens per Lamp: N/A
Luminaire Lumens: 2537.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.23
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): 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: P776086
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Luminous Intensity Polar Plot





TEST NUMBER: P776086

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89				
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68				
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60				
5	82	70	63	57	80	69	62	56	67	61	56	66	60	55	64	59	55	53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	49	58	53	49	47				
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42				
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	70756	70756	70756	70756
5°	75104	70553	66107	70278
10°	78750	70200	61065	69649
15°	81692	69507	55925	68638
20°	83844	68483	50871	67200
25°	85106	66984	46019	65266
30°	85140	65016	41532	62858
35°	82924	62573	37363	59829
40°	76493	59433	33355	54695
45°	65325	54316	29298	47416
50°	53823	47384	24946	39103
55°	43181	39052	20214	30546
60°	33934	30250	16687	22915
65°	25800	22168	13036	16370
70°	19042	15564	9697	11284
75°	13492	10823	7223	7434
80°	8492	7735	5146	4672
85°	2768	6038	2642	2327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 67162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	4.8
10°-20°	342.3	13.5
20°-30°	500.4	19.7
30°-40°	562.3	22.2
40°-50°	485.0	19.1
50°-60°	311.5	12.3
60°-70°	151.1	6.0
70°-80°	54.1	2.1
80°-90°	9.3	0.4
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°	964.2	38.0
0°-40°	1526.5	60.2
0°-60°	2323.0	91.5
0°-90°	2537.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1291	1291	1291	1291	1291	
5°	1365	1282	1201	1277	1365	132
15°	1439	1225	985	1209	1439	407
25°	1407	1107	761	1079	1407	648
35°	1239	935	558	894	1239	768
45°	843	701	378	612	843	650
55°	452	409	212	320	452	408
65°	199	171	100	126	199	201
75°	64	51	34	35	64	70
85°	4	10	4	4	4	9
90°	0	0	0	0	0	



TEST NUMBER: P776086

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7
0.5°	1300.3	1299.3	1297.4	1294.4	1287.5	1285.8	1284.8	1284.3	1283.8	1284.0	1285.5
1°	1308.0	1306.8	1303.1	1297.4	1287.5	1282.8	1278.8	1276.6	1275.1	1275.9	1279.1
1.5°	1315.9	1314.2	1308.5	1300.3	1287.5	1279.1	1272.7	1268.5	1266.5	1267.7	1272.9
2°	1323.6	1321.3	1313.9	1303.3	1287.2	1275.6	1266.5	1260.3	1257.8	1259.8	1266.2
2.5°	1331.0	1328.0	1319.4	1305.8	1286.7	1271.9	1259.8	1251.9	1248.7	1251.2	1259.6
3°	1338.1	1334.7	1324.0	1308.2	1286.0	1268.2	1253.4	1243.5	1239.3	1242.5	1252.7
3.5°	1345.0	1341.1	1329.2	1310.7	1285.3	1264.3	1246.5	1234.6	1230.2	1233.9	1246.0
4°	1351.7	1347.8	1333.7	1312.7	1284.3	1260.1	1239.6	1225.7	1220.5	1225.0	1238.8
4.5°	1358.4	1353.4	1338.4	1314.7	1283.3	1255.6	1232.4	1216.8	1210.9	1216.1	1231.7
5°	1364.8	1359.6	1342.6	1316.4	1282.1	1251.4	1225.2	1207.7	1201.3	1206.7	1224.3
5.5°	1370.7	1365.1	1346.8	1318.1	1280.6	1246.5	1217.8	1198.6	1191.4	1197.6	1216.8
6°	1376.7	1370.5	1350.7	1319.6	1279.1	1241.8	1210.4	1188.9	1181.0	1188.2	1209.2
6.5°	1382.1	1375.7	1354.4	1320.8	1277.4	1237.1	1202.5	1179.5	1171.1	1178.6	1201.5
7°	1387.5	1380.6	1357.9	1322.1	1275.4	1231.9	1194.9	1169.9	1160.8	1169.2	1193.6
7.5°	1392.7	1385.3	1361.3	1322.8	1273.4	1226.7	1186.9	1160.0	1150.4	1159.5	1185.7
8°	1397.4	1390.0	1364.3	1323.6	1271.2	1221.5	1178.8	1150.4	1139.8	1149.4	1177.6
8.5°	1402.1	1394.4	1367.3	1324.3	1269.0	1216.1	1170.4	1140.0	1129.4	1139.5	1169.4
9°	1406.6	1398.4	1370.0	1324.5	1266.5	1210.4	1162.2	1130.1	1118.5	1129.6	1161.3
9.5°	1410.8	1402.4	1372.5	1325.0	1263.8	1204.7	1153.8	1120.0	1107.7	1119.3	1152.6
10°	1414.7	1406.1	1374.7	1325.0	1261.1	1198.8	1145.4	1109.9	1097.0	1109.1	1144.5
10.5°	1418.4	1409.5	1376.9	1324.8	1258.1	1192.9	1136.8	1099.5	1086.4	1099.0	1135.8
11°	1421.9	1412.5	1378.9	1324.5	1255.1	1186.7	1127.9	1088.9	1075.0	1088.6	1127.2
11.5°	1424.8	1415.4	1380.4	1324.0	1251.7	1180.3	1119.0	1078.5	1063.9	1078.3	1118.3
12°	1427.8	1417.9	1381.9	1323.3	1248.5	1174.1	1110.1	1067.9	1053.1	1067.9	1109.6
12.5°	1430.5	1420.4	1383.1	1322.6	1244.8	1167.4	1101.2	1057.3	1041.9	1057.0	1100.7
13°	1432.7	1422.4	1384.1	1321.6	1241.3	1161.0	1092.1	1046.6	1030.6	1046.6	1091.6
13.5°	1435.0	1424.3	1384.8	1320.1	1237.3	1154.3	1083.0	1036.0	1019.5	1036.0	1082.7
14°	1436.7	1425.8	1385.3	1318.9	1233.4	1147.4	1073.6	1024.9	1008.1	1025.4	1073.6
14.5°	1438.2	1427.3	1385.3	1317.1	1229.2	1140.5	1064.2	1014.0	997.0	1014.3	1064.2
15°	1439.4	1428.3	1385.6	1315.2	1224.7	1133.3	1054.8	1003.2	985.4	1003.7	1054.8
15.5°	1440.4	1429.0	1385.3	1313.2	1220.5	1126.2	1045.2	992.5	974.3	993.0	1045.4
16°	1441.1	1429.8	1384.8	1311.2	1215.9	1119.0	1035.8	981.4	962.9	982.2	1036.0
16.5°	1441.6	1429.8	1384.3	1308.7	1211.2	1111.4	1025.9	970.3	951.5	971.3	1026.6
17°	1441.9	1429.8	1383.3	1306.0	1206.2	1103.9	1016.5	959.4	940.2	960.4	1017.0
17.5°	1441.6	1429.8	1382.1	1303.1	1201.3	1096.3	1006.6	948.3	928.6	949.3	1007.4
18°	1441.4	1429.3	1380.9	1300.3	1196.1	1088.6	996.7	937.2	917.4	938.7	997.7
18.5°	1440.6	1428.5	1378.9	1296.9	1190.7	1080.7	986.9	926.3	906.1	927.6	987.8
19°	1439.9	1427.6	1377.2	1293.7	1185.0	1072.8	977.0	915.2	894.7	916.5	978.2
19.5°	1438.7	1426.3	1374.9	1290.0	1179.5	1064.9	967.3	904.1	883.4	905.8	968.6
20°	1437.2	1424.8	1372.7	1286.0	1173.9	1056.8	957.5	893.2	872.0	895.0	958.7
20.5°	1435.5	1422.9	1370.0	1282.1	1167.7	1048.6	947.1	882.4	861.1	883.9	948.8
21°	1433.5	1420.9	1367.3	1277.9	1161.5	1040.2	937.0	871.3	849.5	873.0	938.7



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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°	1425.8	1413.2	1357.4	1263.8	1142.5	1014.8	907.1	838.6	816.2	840.4	908.8
23°	1422.6	1410.0	1353.4	1258.8	1135.8	1006.1	896.7	827.5	804.8	829.5	898.7
23.5°	1419.4	1406.6	1349.5	1253.6	1128.9	997.5	886.6	816.9	793.9	818.6	888.5
24°	1415.4	1402.8	1345.0	1248.0	1122.0	988.6	876.4	805.8	782.8	807.8	878.7
24.5°	1411.5	1398.9	1340.6	1242.5	1114.8	979.9	866.1	795.2	771.7	796.9	868.5
25°	1407.0	1394.7	1335.7	1236.6	1107.4	971.1	855.7	784.1	760.8	786.3	858.4
25.5°	1402.4	1390.0	1330.7	1230.7	1100.2	961.9	845.8	773.7	750.2	775.7	848.3
26°	1397.7	1385.3	1325.5	1224.3	1092.6	952.8	835.7	762.8	739.6	765.0	837.9
26.5°	1392.2	1380.1	1319.8	1218.1	1084.9	943.6	825.3	752.2	728.7	754.2	827.8
27°	1386.8	1374.7	1313.9	1211.2	1077.3	934.5	814.9	741.6	718.1	743.8	817.6
27.5°	1380.9	1369.0	1308.0	1204.5	1069.1	925.1	804.8	731.4	707.5	733.2	807.5
28°	1374.7	1362.8	1301.6	1197.3	1061.0	915.7	794.7	720.8	697.1	722.8	797.4
28.5°	1368.0	1356.7	1294.9	1190.2	1052.8	906.3	784.5	710.4	686.7	712.4	787.3
29°	1360.9	1350.0	1288.0	1182.5	1044.4	896.9	774.2	699.8	676.6	702.0	776.9
29.5°	1353.2	1342.8	1281.1	1175.1	1036.0	887.3	764.0	689.9	666.2	691.4	766.8
30°	1345.0	1335.4	1273.7	1167.4	1027.1	877.9	753.7	679.6	656.1	681.3	756.4
30.5°	1336.6	1327.5	1266.0	1159.0	1018.5	868.3	743.8	669.4	646.0	670.9	746.3
31°	1328.0	1319.1	1258.1	1150.9	1009.8	858.4	733.7	659.6	636.1	660.8	736.1
31.5°	1318.6	1310.2	1249.9	1142.5	1000.4	848.8	723.5	649.4	626.0	650.7	725.8
32°	1309.2	1300.8	1241.3	1133.8	991.6	839.1	713.4	639.5	616.3	640.5	715.9
32.5°	1298.9	1290.9	1232.2	1124.9	982.4	829.3	703.3	629.7	606.4	630.7	705.7
33°	1287.5	1280.8	1222.8	1116.1	973.0	819.1	693.1	620.0	596.8	620.8	695.1
33.5°	1275.6	1270.2	1212.9	1106.9	963.9	809.3	683.3	610.4	587.2	610.6	685.0
34°	1264.3	1259.3	1202.5	1097.3	954.3	799.4	673.1	600.5	577.5	601.3	675.1
34.5°	1251.7	1247.5	1191.6	1087.4	944.6	789.5	663.3	590.9	567.7	591.4	665.0
35°	1239.1	1235.4	1180.5	1077.5	935.0	779.6	653.4	581.2	558.3	581.5	654.9
35.5°	1225.5	1223.0	1168.9	1067.1	925.4	769.5	643.5	571.9	548.9	572.1	644.7
36°	1210.9	1209.7	1157.1	1056.5	915.5	759.6	633.9	562.5	539.7	562.5	634.9
36.5°	1196.1	1196.1	1144.7	1045.2	905.1	749.5	624.0	552.8	530.1	552.8	624.7
37°	1180.3	1181.8	1131.9	1033.8	895.2	739.6	614.1	543.5	521.0	543.2	614.8
37.5°	1164.0	1166.7	1118.5	1021.7	884.8	729.2	604.5	534.3	511.6	533.8	604.7
38°	1146.9	1151.4	1104.7	1009.6	874.2	719.1	594.6	524.9	502.4	524.4	594.8
38.5°	1128.7	1135.3	1090.4	997.0	863.6	709.2	585.0	515.8	493.6	515.0	585.0
39°	1110.1	1118.5	1075.5	983.9	853.0	698.8	575.6	506.4	484.4	505.7	575.3
39.5°	1090.1	1100.2	1060.2	970.3	841.9	688.9	565.9	497.5	475.3	496.3	565.7
40°	1068.9	1081.2	1043.9	956.2	830.5	678.6	556.1	488.4	466.1	487.1	555.8
40.5°	1046.9	1061.7	1026.6	941.9	818.6	668.4	546.7	479.2	457.2	478.0	546.2
41°	1024.7	1041.5	1008.8	926.8	806.8	658.6	537.0	470.1	448.3	468.6	536.8
41.5°	1002.2	1019.7	990.6	911.5	794.4	648.4	527.6	460.9	439.2	459.7	526.9
42°	978.7	998.2	972.0	895.7	782.1	638.3	518.0	452.1	430.6	450.6	517.0
42.5°	956.0	976.5	953.0	879.9	769.0	627.9	508.9	443.2	421.7	441.7	506.9
43°	933.3	954.5	933.5	863.6	755.4	617.3	499.5	434.3	412.8	432.8	496.5
43.5°	910.3	932.5	913.5	847.0	742.1	606.4	490.3	425.4	404.1	423.9	486.1



TEST NUMBER: P776086

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	842.6	866.3	854.5	796.4	700.6	572.6	462.9	398.9	377.9	397.5	454.5
45.5°	821.1	844.6	834.0	779.1	686.0	560.7	453.8	390.3	369.3	388.8	443.7
46°	799.1	822.6	813.7	762.1	671.9	549.1	444.4	381.4	360.7	379.9	432.8
46.5°	776.4	800.4	793.4	744.3	657.3	537.3	435.0	372.8	351.8	371.0	422.4
47°	755.4	778.6	773.2	726.7	642.8	525.4	425.1	364.1	343.4	361.9	411.5
47.5°	733.2	757.1	752.4	708.7	628.2	513.3	415.5	355.5	334.7	353.0	400.4
48°	712.4	735.9	732.2	691.2	613.9	501.5	405.9	347.1	326.3	343.9	389.6
48.5°	692.2	715.1	711.9	673.1	599.0	489.6	396.0	338.2	317.7	334.7	378.9
49°	671.2	694.4	691.7	655.6	584.5	477.5	386.1	329.5	309.0	325.6	368.1
49.5°	651.4	673.6	672.2	637.6	569.6	465.4	376.2	321.1	300.6	316.4	357.2
50°	631.1	653.1	651.6	619.5	555.6	453.3	366.6	312.7	292.5	307.5	346.3
50.5°	610.9	633.1	632.4	601.5	540.5	440.9	356.5	303.8	284.1	298.2	336.0
51°	592.4	613.4	613.1	584.2	525.4	428.6	346.3	294.9	275.4	288.8	325.1
51.5°	573.3	594.1	594.1	566.7	510.8	417.0	336.4	286.5	267.3	279.9	315.0
52°	554.3	575.1	575.3	549.4	496.3	404.9	326.6	278.1	259.1	270.7	304.3
52.5°	537.0	556.3	556.8	531.6	481.2	392.8	316.4	269.3	250.7	261.8	294.0
53°	518.5	538.3	538.5	514.8	466.4	380.7	306.8	260.6	242.6	252.7	283.6
53.5°	501.5	520.2	520.7	498.0	451.8	368.8	296.9	252.2	234.2	243.8	273.5
54°	483.9	502.4	503.2	481.4	437.5	356.9	286.8	243.6	226.3	234.9	263.3
54.5°	467.1	485.4	486.4	464.9	422.9	345.3	277.2	234.9	218.1	226.3	253.4
55°	451.8	468.6	469.1	448.6	408.6	334.0	267.5	226.8	211.5	218.1	243.6
55.5°	435.5	452.3	452.8	432.8	394.3	322.1	257.9	218.4	205.0	209.7	234.2
56°	420.7	436.2	436.7	417.2	380.2	310.5	248.3	210.7	198.4	201.6	224.5
56.5°	405.1	420.7	420.9	401.7	366.6	299.4	238.9	203.1	191.7	193.4	215.7
57°	390.8	405.4	405.6	386.6	353.0	288.0	229.7	195.4	187.0	185.3	206.8
57.5°	376.7	390.5	390.3	372.0	339.7	276.7	220.6	187.7	181.3	177.4	197.6
58°	362.6	376.2	375.7	357.7	326.1	266.0	211.9	183.3	175.4	170.0	188.7
58.5°	349.3	362.1	361.6	343.9	313.2	255.2	203.1	178.1	169.5	163.5	179.8
59°	335.7	348.3	347.8	330.0	300.6	244.6	194.4	172.4	163.5	158.6	171.4
59.5°	322.9	335.5	334.5	316.7	288.0	234.2	185.8	166.5	157.8	153.4	163.3
60°	309.5	322.4	321.1	303.8	275.9	224.1	177.1	160.8	152.2	148.2	155.4
60.5°	296.9	309.5	308.3	291.0	263.8	214.2	169.0	154.9	146.5	142.8	148.0
61°	285.1	296.9	295.9	278.9	252.5	204.5	161.1	149.2	141.1	137.3	140.8
61.5°	273.2	285.1	283.8	266.8	241.3	194.7	153.9	143.5	135.9	132.2	133.6
62°	261.6	273.2	272.5	255.2	230.5	185.0	146.7	138.1	130.7	127.0	127.2
62.5°	250.2	261.8	261.1	244.1	220.3	176.4	139.8	132.9	125.5	122.0	120.8
63°	239.6	250.7	250.0	233.2	210.2	167.5	133.1	127.7	120.3	117.1	114.6
63.5°	229.0	240.1	239.4	222.6	200.1	159.1	127.7	122.8	115.4	112.4	108.9
64°	218.4	229.5	229.0	211.9	190.0	150.9	123.0	117.8	110.4	107.7	103.5
64.5°	208.2	219.9	219.1	202.1	180.1	143.0	118.3	113.1	105.5	103.0	98.3
65°	198.9	210.0	209.2	192.4	170.9	135.6	113.6	108.4	100.5	98.3	93.6
65.5°	189.7	200.6	199.8	183.3	162.3	128.2	109.2	104.0	96.1	93.9	89.2
66°	180.3	191.2	190.7	174.4	153.6	121.0	104.5	99.3	91.6	89.4	85.2



TEST NUMBER: P776086

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	155.4	165.8	165.3	149.4	130.2	102.3	91.9	86.7	78.8	76.8	74.6
68°	147.5	157.8	157.4	141.5	123.0	96.6	87.9	82.8	74.8	72.9	71.4
68.5°	140.1	150.2	149.4	134.1	115.9	91.2	84.0	78.8	71.1	69.2	68.2
69°	132.7	143.0	142.0	127.0	109.4	86.2	80.3	75.1	67.4	65.5	65.0
69.5°	125.5	135.9	135.1	120.1	103.0	81.3	76.8	71.4	64.0	62.0	62.0
70°	118.8	128.7	128.0	113.4	97.1	76.8	73.4	67.9	60.5	58.5	58.8
70.5°	112.4	122.3	121.5	107.2	91.2	72.6	70.2	64.7	57.6	55.3	55.8
71°	106.0	115.9	115.1	101.0	86.0	68.7	66.9	61.5	54.3	52.4	53.1
71.5°	99.8	109.9	108.9	95.4	80.8	64.7	63.7	58.3	51.4	49.4	50.4
72°	94.1	103.8	103.0	89.9	75.8	61.3	60.5	55.3	48.7	46.7	47.4
72.5°	87.9	98.1	97.3	85.2	71.1	57.8	57.8	52.6	45.9	44.2	45.0
73°	83.0	92.4	91.6	80.3	66.7	54.6	54.8	49.9	43.5	41.5	42.5
73.5°	78.1	88.4	87.0	75.6	62.5	51.6	52.1	47.2	41.0	39.3	40.0
74°	73.1	83.2	82.0	70.6	58.5	48.9	49.4	44.7	38.5	36.8	37.5
74.5°	68.2	78.3	77.3	65.7	54.8	46.2	46.9	42.2	36.3	34.6	35.3
75°	63.7	73.4	72.4	61.5	51.1	43.7	44.2	39.8	34.1	32.6	33.1
75.5°	59.0	68.4	67.7	57.6	47.7	41.5	42.0	37.5	32.1	30.4	31.1
76°	54.8	64.0	63.2	53.6	44.5	39.3	39.8	35.3	29.9	28.4	29.1
76.5°	50.9	59.8	59.0	49.9	41.5	37.1	37.5	33.3	27.9	26.4	27.2
77°	46.9	55.8	55.1	46.4	38.5	35.1	35.3	31.1	26.2	24.7	25.4
77.5°	43.2	52.1	51.1	43.2	35.8	33.1	33.3	29.1	24.5	23.0	23.7
78°	39.8	48.4	47.4	40.0	33.1	31.1	31.4	27.2	22.7	21.2	22.0
78.5°	36.3	45.0	44.0	36.8	30.6	29.4	29.4	25.2	21.0	19.8	20.5
79°	33.1	41.7	40.5	34.1	28.4	27.7	27.4	23.5	19.5	18.3	19.0
79.5°	29.9	38.5	37.3	31.4	26.2	25.9	25.7	21.7	18.0	16.6	17.5
80°	26.9	35.6	34.3	28.7	24.5	24.2	24.0	20.3	16.3	15.1	15.8
80.5°	24.2	32.6	31.6	26.4	22.5	22.7	22.2	18.5	14.8	13.6	14.3
81°	21.5	29.9	28.9	24.2	21.0	21.2	20.8	16.8	13.6	12.4	13.1
81.5°	18.8	27.2	26.2	22.0	19.3	19.8	19.0	15.1	12.1	11.1	11.9
82°	16.3	24.7	23.7	20.0	17.8	18.0	17.5	13.6	10.9	9.9	10.6
82.5°	14.1	22.2	21.5	18.3	16.1	16.6	15.8	12.4	9.6	8.6	9.4
83°	11.9	20.0	19.3	16.6	14.6	15.1	14.3	10.9	8.4	7.4	8.4
83.5°	9.6	17.8	17.3	14.8	13.3	13.8	12.8	9.6	7.4	6.4	7.4
84°	7.9	15.6	15.3	13.1	11.9	12.6	11.6	8.4	6.4	5.2	6.4
84.5°	6.2	13.6	13.6	11.6	10.9	11.4	10.4	7.2	5.2	4.4	5.4
85°	4.4	11.6	11.9	10.4	9.6	10.1	9.1	6.2	4.2	3.5	4.7
85.5°	2.7	9.6	10.1	8.9	8.4	8.9	7.9	5.2	3.5	3.0	3.7
86°	2.0	8.4	8.9	7.9	7.4	7.9	6.9	4.4	2.7	2.5	3.0
86.5°	1.5	6.9	7.7	6.7	6.4	6.7	5.9	3.7	2.2	2.0	2.2
87°	1.2	5.4	6.2	5.4	5.4	5.7	4.9	3.0	1.7	1.5	1.5
87.5°	0.7	4.2	4.9	4.4	4.4	4.7	4.0	2.5	1.2	1.0	0.7
88°	0.5	3.0	3.7	3.5	3.7	3.7	3.2	1.7	0.7	0.5	0.2
88.5°	0.2	1.7	2.5	2.5	3.0	2.7	2.2	1.2	0.5	0.2	0.0



TEST NUMBER: P776086

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.2	0.5	0.5	0.2	0.0	0.0	0.0	0.0



TEST NUMBER: P776086

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1290.7	1290.7	1290.7	1290.7	1290.7	1290.7
0.5°	1287.7	1287.0	1291.7	1295.9	1299.3	1300.3
1°	1284.3	1286.7	1294.4	1301.6	1306.8	1308.0
1.5°	1280.6	1286.0	1296.9	1306.5	1313.7	1315.9
2°	1276.6	1285.3	1299.3	1311.7	1320.6	1323.6
2.5°	1272.7	1284.3	1301.3	1316.6	1327.0	1331.0
3°	1268.7	1283.3	1303.3	1321.1	1333.7	1338.1
3.5°	1264.3	1282.1	1305.3	1325.5	1339.6	1345.0
4°	1259.8	1280.6	1306.8	1329.7	1345.8	1351.7
4.5°	1255.1	1278.8	1308.2	1333.7	1351.5	1358.4
5°	1250.4	1277.1	1309.5	1337.6	1357.1	1364.8
5.5°	1245.7	1275.4	1310.7	1341.1	1362.6	1370.7
6°	1240.6	1273.4	1311.7	1344.6	1367.5	1376.7
6.5°	1235.6	1271.2	1312.2	1347.8	1372.5	1382.1
7°	1230.4	1268.7	1312.7	1350.7	1376.9	1387.5
7.5°	1225.0	1266.2	1313.2	1353.4	1381.4	1392.7
8°	1219.6	1263.5	1313.2	1355.9	1385.6	1397.4
8.5°	1213.9	1260.6	1313.2	1358.1	1389.5	1402.1
9°	1208.2	1257.8	1312.9	1360.1	1393.2	1406.6
9.5°	1202.3	1254.4	1312.4	1362.1	1396.7	1410.8
10°	1196.3	1251.2	1311.7	1363.6	1399.9	1414.7
10.5°	1190.4	1248.0	1311.0	1364.8	1402.8	1418.4
11°	1184.0	1244.3	1309.7	1366.0	1405.6	1421.9
11.5°	1177.8	1240.3	1308.5	1366.8	1407.8	1424.8
12°	1171.1	1236.4	1307.0	1367.5	1410.0	1427.8
12.5°	1164.5	1232.2	1305.3	1367.8	1412.0	1430.5
13°	1157.8	1228.0	1303.5	1368.0	1413.5	1432.7
13.5°	1151.1	1223.8	1301.3	1367.8	1414.7	1435.0
14°	1144.2	1219.1	1299.1	1367.5	1415.9	1436.7
14.5°	1137.1	1214.4	1296.6	1366.8	1416.7	1438.2
15°	1129.9	1209.4	1293.7	1366.0	1417.2	1439.4
15.5°	1122.7	1204.2	1290.7	1364.8	1417.4	1440.4
16°	1115.3	1199.3	1287.7	1363.6	1417.4	1441.1
16.5°	1107.9	1193.9	1284.5	1361.8	1417.2	1441.6
17°	1100.2	1188.4	1280.8	1360.1	1416.7	1441.9
17.5°	1092.6	1182.8	1277.1	1357.9	1415.9	1441.6
18°	1084.7	1176.8	1273.2	1355.7	1415.0	1441.4
18.5°	1076.8	1170.9	1269.0	1352.9	1413.5	1440.6
19°	1068.9	1164.7	1264.5	1350.2	1412.0	1439.9
19.5°	1060.7	1158.5	1260.1	1347.0	1410.0	1438.7
20°	1052.6	1151.9	1255.1	1343.8	1408.0	1437.2
20.5°	1044.4	1145.4	1250.2	1340.1	1405.6	1435.5
21°	1035.8	1138.8	1245.0	1336.4	1402.8	1433.5

TEST NUMBER: P776086

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1010.3	1117.3	1228.2	1323.6	1393.2	1425.8
23°	1001.4	1110.1	1222.0	1318.6	1389.5	1422.6
23.5°	993.0	1102.7	1215.9	1313.7	1385.6	1419.4
24°	983.9	1095.1	1209.4	1308.5	1381.1	1415.4
24.5°	974.8	1087.4	1202.8	1302.8	1376.4	1411.5
25°	965.9	1079.0	1195.8	1296.9	1371.5	1407.0
25.5°	957.0	1071.1	1188.9	1290.7	1366.0	1402.4
26°	947.8	1062.9	1181.8	1284.5	1360.9	1397.7
26.5°	938.2	1055.0	1174.6	1277.9	1354.9	1392.2
27°	929.1	1046.1	1166.9	1270.9	1349.0	1386.8
27.5°	919.7	1037.3	1159.0	1264.0	1342.6	1380.9
28°	910.3	1029.1	1150.9	1256.6	1335.7	1374.7
28.5°	900.6	1020.2	1142.7	1249.0	1328.5	1368.0
29°	891.0	1011.3	1134.3	1241.0	1321.1	1360.9
29.5°	881.6	1002.4	1125.4	1232.6	1312.9	1353.2
30°	871.7	993.0	1117.0	1224.0	1304.5	1345.0
30.5°	861.9	983.9	1107.7	1214.9	1295.4	1336.6
31°	852.2	974.3	1098.8	1205.5	1286.0	1328.0
31.5°	842.4	965.4	1089.1	1195.3	1275.9	1318.6
32°	832.5	955.0	1079.2	1185.0	1265.8	1309.2
32.5°	822.6	945.4	1068.9	1174.4	1255.1	1298.9
33°	812.5	935.2	1058.0	1163.0	1244.3	1287.5
33.5°	802.6	925.6	1047.4	1151.4	1232.6	1275.6
34°	792.5	915.2	1035.5	1138.8	1219.8	1264.3
34.5°	782.6	904.6	1023.4	1125.9	1206.5	1251.7
35°	772.2	894.0	1011.1	1112.8	1192.9	1239.1
35.5°	762.3	882.6	998.2	1099.3	1179.0	1225.5
36°	752.2	870.8	985.1	1084.9	1164.5	1210.9
36.5°	741.8	859.1	971.5	1070.1	1149.2	1196.1
37°	731.4	846.8	957.0	1054.3	1132.9	1180.3
37.5°	720.8	833.5	942.4	1038.0	1115.8	1164.0
38°	710.4	820.4	926.3	1021.2	1097.8	1146.9
38.5°	699.8	807.0	910.8	1003.4	1079.2	1128.7
39°	688.9	793.2	893.7	984.6	1059.7	1110.1
39.5°	677.6	778.6	877.4	964.9	1039.0	1090.1
40°	666.0	764.3	859.6	944.6	1017.2	1068.9
40.5°	653.6	749.5	842.4	925.1	995.5	1046.9
41°	641.5	734.6	824.8	904.4	973.3	1024.7
41.5°	628.9	720.1	807.0	883.9	950.8	1002.2
42°	616.1	704.5	789.5	863.3	927.8	978.7
42.5°	603.7	689.2	771.5	842.8	905.8	956.0
43°	590.9	673.9	752.9	821.8	883.9	933.3
43.5°	578.0	658.8	734.9	801.1	861.4	910.3

TEST NUMBER: P776086

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	539.3	611.6	679.8	739.6	795.9	842.6
45.5°	526.4	596.6	661.5	719.6	774.7	821.1
46°	513.3	580.8	643.3	699.1	753.2	799.1
46.5°	500.5	565.7	625.5	679.8	732.7	776.4
47°	487.1	550.1	607.7	660.3	711.7	755.4
47.5°	473.8	534.3	589.2	641.3	690.9	733.2
48°	460.9	519.0	571.6	622.3	670.7	712.4
48.5°	448.1	503.7	554.6	604.2	651.2	692.2
49°	434.8	489.1	537.8	585.7	631.4	671.2
49.5°	422.2	473.5	520.7	567.7	612.6	651.4
50°	409.3	458.5	503.7	550.1	593.1	631.1
50.5°	396.5	443.4	488.1	532.6	575.1	610.9
51°	383.9	428.8	471.8	515.8	556.8	592.4
51.5°	372.0	414.0	456.5	499.0	538.8	573.3
52°	358.9	400.2	441.4	482.9	521.5	554.3
52.5°	346.6	386.3	426.4	467.1	504.4	537.0
53°	334.5	372.0	411.5	451.3	487.6	518.5
53.5°	322.6	358.4	397.2	436.2	471.6	501.5
54°	310.5	345.6	383.4	420.9	455.3	483.9
54.5°	299.1	332.5	369.5	406.8	439.9	467.1
55°	287.5	319.6	356.2	392.3	424.9	451.8
55.5°	275.9	307.5	343.4	378.7	410.1	435.5
56°	264.8	295.4	330.3	365.1	395.7	420.7
56.5°	253.9	283.6	317.9	352.0	381.2	405.1
57°	243.3	272.2	305.6	338.9	367.6	390.8
57.5°	232.9	260.9	294.0	326.3	354.2	376.7
58°	222.8	250.0	282.3	314.5	341.4	362.6
58.5°	213.4	239.1	270.7	302.4	328.5	349.3
59°	203.8	229.0	260.4	290.7	316.2	335.7
59.5°	194.2	218.9	249.0	279.4	304.6	322.9
60°	184.8	209.0	239.1	268.5	292.7	309.5
60.5°	176.1	199.6	229.0	257.6	281.9	296.9
61°	167.7	190.2	219.1	247.0	270.2	285.1
61.5°	159.3	181.3	209.7	237.4	259.6	273.2
62°	151.2	172.7	200.6	227.5	249.2	261.6
62.5°	143.5	164.3	191.4	217.9	238.9	250.2
63°	136.1	155.9	182.8	208.5	228.7	239.6
63.5°	128.9	148.0	174.2	199.8	218.9	229.0
64°	122.0	140.6	166.0	190.9	209.2	218.4
64.5°	115.6	133.1	158.3	182.6	200.3	208.2
65°	109.4	126.2	150.7	174.2	191.2	198.9
65.5°	103.3	119.6	143.3	166.5	182.6	189.7
66°	97.6	112.9	135.9	158.8	173.9	180.3



TEST NUMBER: P776086

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	82.0	94.9	116.3	137.3	150.4	155.4
68°	77.3	89.7	109.9	130.4	143.3	147.5
68.5°	72.6	84.7	104.0	124.0	136.1	140.1
69°	68.7	80.0	98.3	117.6	129.4	132.7
69.5°	64.5	75.3	92.9	111.7	122.5	125.5
70°	60.8	70.4	87.9	105.7	116.3	118.8
70.5°	57.1	65.7	83.0	100.0	110.2	112.4
71°	53.9	61.8	78.3	94.6	104.5	106.0
71.5°	50.4	57.8	73.6	89.4	98.6	99.8
72°	47.4	53.9	68.7	84.7	93.1	94.1
72.5°	44.5	50.4	64.5	80.0	87.7	87.9
73°	41.7	46.9	60.3	75.3	83.0	83.0
73.5°	39.0	44.0	56.6	70.6	78.3	78.1
74°	36.6	40.8	52.9	66.0	73.4	73.1
74.5°	34.1	37.8	49.4	61.8	68.7	68.2
75°	31.9	35.1	45.7	57.8	64.5	63.7
75.5°	29.9	32.4	42.5	53.9	60.3	59.0
76°	27.9	29.9	39.3	50.1	56.1	54.8
76.5°	26.2	27.4	36.3	46.4	52.1	50.9
77°	24.5	25.4	33.6	43.0	48.7	46.9
77.5°	22.7	23.5	30.9	39.8	45.2	43.2
78°	21.2	21.5	28.4	36.8	41.7	39.8
78.5°	19.8	19.8	25.9	33.8	38.5	36.3
79°	18.5	18.0	23.7	30.9	35.3	33.1
79.5°	17.0	16.3	21.7	28.2	32.4	29.9
80°	15.6	14.8	19.5	25.7	29.6	26.9
80.5°	14.3	13.6	17.8	23.2	26.9	24.2
81°	13.1	12.1	15.8	21.0	24.2	21.5
81.5°	11.9	10.9	14.3	18.8	21.7	18.8
82°	10.6	9.6	12.6	16.6	19.5	16.3
82.5°	9.6	8.6	11.1	14.8	17.3	14.1
83°	8.4	7.7	9.6	12.8	15.3	11.9
83.5°	7.4	6.4	8.4	11.1	13.3	9.6
84°	6.4	5.4	7.2	9.6	11.6	7.9
84.5°	5.4	4.4	5.9	8.2	9.9	6.2
85°	4.4	3.7	4.7	6.9	8.6	4.4
85.5°	3.5	2.7	3.7	5.4	7.2	2.7
86°	2.7	2.0	2.7	4.0	5.7	2.0
86.5°	2.0	1.2	1.7	2.7	4.4	1.5
87°	1.0	0.5	0.7	1.7	3.0	1.2
87.5°	0.5	0.2	0.2	0.7	1.7	0.7
88°	0.0	0.0	0.0	0.0	0.7	0.5
88.5°	0.0	0.0	0.0	0.0	0.0	0.2



TEST NUMBER: P776086
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-HCD6TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

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



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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°	1431.3	1418.7	1364.3	1273.4	1155.3	1031.8	927.1	860.4	838.4	861.9	928.8
22°	1428.8	1415.9	1360.9	1268.7	1149.2	1023.4	917.0	849.3	827.0	851.2	918.7



44°	887.8	910.5	893.7	830.2	728.2	595.3	481.2	416.5	395.2	415.0	475.5
44.5°	865.6	888.3	874.5	813.4	714.4	584.2	472.1	407.6	386.3	406.1	465.1



66.5°	171.4	182.6	182.1	165.5	145.5	114.6	100.0	94.9	87.0	85.0	81.5
67°	163.3	174.2	173.2	157.4	137.8	108.2	95.8	90.9	82.8	81.0	78.1



89°	0.0	0.7	1.5	1.5	2.0	2.0	1.5	0.7	0.0	0.0	0.0
89.5°	0.0	0.2	0.5	0.7	1.2	1.2	0.7	0.2	0.0	0.0	0.0

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21.5°	1027.6	1131.4	1239.6	1332.2	1400.1	1431.3
22°	1018.7	1124.9	1233.9	1328.0	1396.7	1428.8



44°	564.9	643.3	716.6	780.3	839.1	887.8
44.5°	552.1	627.4	698.3	759.8	817.6	865.6

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66.5°	91.9	106.7	129.2	151.4	166.0	171.4
67°	86.7	100.5	122.5	144.0	158.1	163.3

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

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Scaled Data Report



(END OF REPORT)