

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: P776123

Luminaire Tested: HCDJBL51525CSD-HCD6TSQMW-2500lm-4000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD6TSQMW-2500lm-4000K  
Description: 6 INCH SQUARE MEDIUM MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

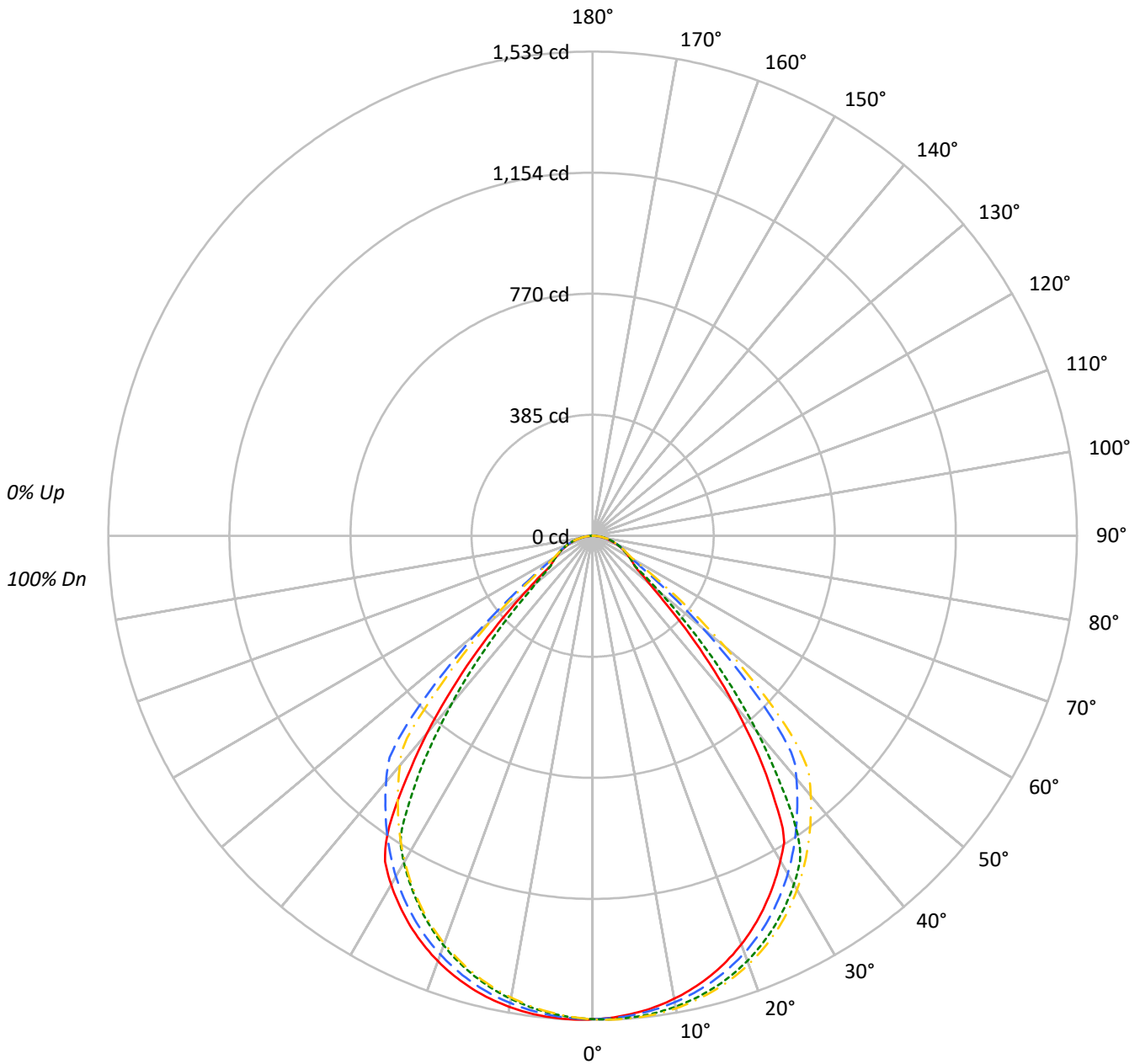
Lumens per Lamp: N/A  
Luminaire Lumens: 2696.1 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





TEST NUMBER: P776123

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	78	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	67	57	49	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	66164	66164	66164	66164
5°	65842	66360	66403	65855
10°	65326	66437	66480	65348
15°	64531	66318	66354	64597
20°	63326	65878	65910	63464
25°	61597	65003	65056	61816
30°	59332	63607	63657	59635
35°	52319	59000	59184	52503
40°	38984	45729	45998	39113
45°	25373	31334	31535	25513
50°	15634	18668	18869	15734
55°	12063	12101	12101	12063
60°	11582	11539	11539	11582
65°	11033	11135	11033	11186
70°	10461	10788	10524	10851
75°	9682	10447	9931	10397
80°	8331	10017	9025	9645
85°	4644	9040	6768	7805

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 54149 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	5.4
10°-20°	414.1	15.4
20°-30°	614.9	22.8
30°-40°	679.8	25.2
40°-50°	460.7	17.1
50°-60°	187.8	7.0
60°-70°	110.8	4.1
70°-80°	65.5	2.4
80°-90°	17.3	0.6
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°	1174.2	43.6
0°-40°	1854.0	68.8
0°-60°	2502.5	92.8
0°-90°	2696.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2696.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1537	1537	1537	1537	1537	
5°	1523	1535	1536	1524	1523	145
15°	1448	1488	1489	1449	1448	408
25°	1297	1368	1369	1301	1297	596
35°	995	1122	1126	999	995	609
45°	417	515	518	419	417	329
55°	161	161	161	161	161	151
65°	108	109	108	110	108	107
75°	58	63	60	62	58	61
85°	9	18	14	16	9	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1536.7	1536.7	1536.7	1536.7	1536.7	1536.7	1536.7	1536.7	1536.7	1536.7	1536.7
0.5°	1536.7	1536.1	1536.1	1536.7	1536.9	1537.2	1537.7	1537.9	1537.9	1536.9	1536.1
1°	1535.6	1535.6	1535.6	1536.7	1537.4	1537.7	1538.4	1538.4	1538.2	1536.9	1536.1
1.5°	1534.6	1534.9	1535.4	1536.4	1537.7	1538.2	1538.9	1538.9	1538.4	1537.2	1535.6
2°	1533.6	1534.1	1534.9	1536.1	1537.7	1538.2	1539.2	1539.2	1538.7	1536.9	1535.4
2.5°	1532.3	1532.8	1534.1	1535.9	1537.7	1538.4	1539.4	1539.4	1538.7	1536.7	1534.6
3°	1530.8	1531.6	1533.1	1535.4	1537.4	1538.4	1539.4	1539.4	1538.4	1536.4	1533.9
3.5°	1529.3	1530.3	1532.1	1534.6	1537.2	1538.2	1539.4	1539.2	1538.2	1535.9	1533.1
4°	1527.5	1528.8	1531.1	1533.9	1536.7	1537.9	1539.2	1538.9	1537.7	1535.1	1532.1
4.5°	1525.5	1527.2	1529.8	1532.8	1536.1	1537.7	1538.7	1538.7	1537.2	1534.4	1531.1
5°	1523.4	1525.5	1528.3	1531.6	1535.4	1537.2	1538.2	1538.2	1536.4	1533.3	1529.8
5.5°	1521.4	1523.7	1526.7	1530.6	1534.4	1536.4	1537.7	1537.4	1535.6	1532.3	1528.3
6°	1518.9	1521.4	1525.0	1529.0	1533.3	1535.6	1536.9	1536.7	1534.6	1531.1	1526.7
6.5°	1516.6	1519.4	1522.9	1527.5	1532.3	1534.6	1535.9	1535.6	1533.3	1529.5	1525.0
7°	1513.8	1516.8	1520.9	1525.7	1531.1	1533.6	1534.9	1534.4	1532.1	1527.8	1522.9
7.5°	1511.0	1514.5	1518.9	1523.9	1529.3	1532.3	1533.6	1533.1	1530.6	1526.0	1520.9
8°	1507.9	1511.7	1516.6	1521.9	1527.8	1530.8	1532.3	1531.6	1528.8	1524.2	1518.9
8.5°	1504.6	1508.9	1514.0	1519.9	1526.0	1529.0	1530.8	1530.0	1527.0	1522.2	1516.3
9°	1501.3	1505.6	1511.2	1517.3	1523.9	1527.5	1529.0	1528.0	1525.0	1519.9	1513.8
9.5°	1498.0	1502.6	1508.4	1515.0	1521.9	1525.5	1527.2	1526.2	1522.9	1517.6	1511.0
10°	1494.2	1499.3	1505.6	1512.2	1519.6	1523.4	1525.2	1523.9	1520.6	1515.3	1508.2
10.5°	1490.4	1495.7	1502.3	1509.4	1517.3	1521.1	1522.9	1521.9	1518.1	1512.5	1505.1
11°	1486.3	1491.9	1499.3	1506.7	1514.5	1518.9	1520.6	1519.4	1515.5	1509.4	1502.1
11.5°	1482.0	1488.1	1495.7	1503.6	1511.7	1516.1	1518.1	1516.8	1512.8	1506.4	1498.8
12°	1477.7	1484.0	1492.2	1500.3	1508.9	1513.5	1515.5	1514.0	1510.0	1503.3	1495.2
12.5°	1473.1	1480.0	1488.3	1497.0	1505.9	1510.5	1512.5	1511.2	1506.7	1500.0	1491.7
13°	1468.5	1475.6	1484.3	1493.2	1502.6	1507.4	1509.4	1507.9	1503.6	1496.5	1487.8
13.5°	1463.7	1471.1	1480.2	1489.4	1499.0	1504.4	1506.4	1504.6	1500.0	1492.9	1483.8
14°	1458.6	1466.2	1476.1	1485.5	1495.5	1500.8	1503.1	1501.3	1496.5	1488.9	1479.7
14.5°	1453.3	1461.4	1471.6	1481.5	1491.7	1497.2	1499.5	1497.8	1492.7	1485.0	1475.1
15°	1447.7	1456.3	1467.0	1477.2	1487.8	1493.7	1496.0	1493.9	1488.6	1480.7	1470.8
15.5°	1442.1	1451.0	1461.9	1472.6	1483.8	1489.6	1492.2	1489.9	1484.5	1476.4	1466.2
16°	1436.2	1445.4	1457.1	1468.0	1479.4	1485.3	1488.1	1485.8	1480.0	1471.8	1461.1
16.5°	1430.1	1439.8	1452.0	1463.4	1474.9	1481.2	1484.0	1481.7	1475.6	1467.2	1456.3
17°	1423.8	1433.9	1446.9	1458.3	1470.0	1476.7	1479.7	1477.2	1470.8	1462.2	1451.0
17.5°	1417.4	1427.8	1441.3	1453.0	1465.5	1472.1	1475.1	1472.3	1466.0	1457.1	1445.6
18°	1410.5	1421.5	1435.5	1447.7	1460.1	1467.2	1470.5	1467.5	1460.9	1451.7	1440.0
18.5°	1403.9	1415.1	1429.4	1442.1	1455.0	1462.4	1465.5	1462.4	1455.5	1446.4	1434.4
19°	1396.8	1408.5	1423.5	1436.5	1449.4	1457.1	1460.4	1457.1	1450.0	1440.5	1428.1
19.5°	1389.4	1401.6	1417.2	1430.4	1443.6	1451.7	1455.3	1451.7	1444.4	1435.0	1422.2
20°	1382.1	1394.8	1410.8	1424.3	1437.8	1445.9	1449.7	1446.1	1438.5	1428.9	1416.1
20.5°	1374.4	1387.2	1404.2	1417.7	1431.9	1440.0	1444.1	1440.3	1432.4	1422.8	1409.5
21°	1366.6	1379.8	1397.3	1411.1	1425.3	1433.9	1438.3	1434.2	1426.3	1416.1	1402.9



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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°	1341.6	1356.1	1375.5	1390.5	1405.5	1414.9	1419.4	1415.1	1406.5	1396.3	1381.8
23°	1333.0	1348.0	1367.8	1383.1	1398.3	1408.0	1412.8	1408.5	1399.4	1388.7	1374.2
23.5°	1324.4	1339.6	1360.0	1375.5	1391.2	1401.1	1406.2	1401.6	1392.2	1381.3	1366.6
24°	1315.5	1331.2	1352.1	1367.8	1383.6	1394.0	1399.1	1394.5	1384.6	1373.9	1358.7
24.5°	1306.1	1322.3	1343.7	1360.0	1376.0	1386.6	1391.7	1387.2	1377.0	1366.3	1350.8
25°	1296.6	1313.4	1335.3	1351.8	1368.3	1379.0	1384.4	1379.5	1369.4	1358.4	1342.4
25.5°	1287.0	1304.0	1326.6	1343.4	1360.2	1371.4	1377.0	1371.9	1361.2	1350.3	1334.3
26°	1277.3	1294.9	1317.7	1335.0	1351.8	1363.3	1369.1	1363.8	1353.1	1341.9	1325.9
26.5°	1267.4	1285.5	1308.6	1326.4	1343.4	1355.1	1361.0	1355.6	1344.4	1333.5	1317.0
27°	1257.2	1275.8	1299.4	1317.7	1334.8	1346.7	1352.6	1347.2	1336.1	1324.9	1307.8
27.5°	1246.8	1265.4	1290.0	1308.8	1326.1	1338.3	1344.4	1338.9	1327.4	1316.2	1299.2
28°	1236.4	1255.5	1280.4	1299.7	1316.7	1329.4	1335.5	1330.0	1318.3	1306.8	1289.5
28.5°	1226.0	1245.3	1270.5	1290.0	1307.8	1320.5	1326.6	1321.3	1308.8	1297.9	1280.1
29°	1215.3	1235.1	1261.1	1280.6	1298.4	1311.4	1317.5	1311.9	1299.7	1288.3	1270.2
29.5°	1204.4	1224.4	1250.6	1271.0	1289.0	1302.2	1308.6	1302.7	1290.3	1279.4	1260.3
30°	1193.4	1214.3	1240.2	1261.1	1279.4	1292.6	1298.9	1293.3	1280.4	1268.9	1250.4
30.5°	1182.2	1203.3	1229.8	1251.1	1269.2	1283.2	1289.3	1283.9	1270.2	1259.3	1240.2
31°	1171.0	1192.4	1219.1	1241.0	1258.8	1273.5	1279.6	1273.8	1260.0	1248.8	1229.8
31.5°	1159.9	1181.2	1208.2	1230.5	1248.6	1263.6	1269.7	1263.8	1249.9	1238.7	1219.1
32°	1148.9	1170.0	1197.2	1220.1	1237.4	1253.2	1259.3	1253.9	1238.9	1228.5	1208.4
32.5°	1129.4	1158.6	1186.0	1209.4	1226.7	1243.0	1249.4	1243.5	1228.0	1217.8	1197.7
33°	1109.0	1147.2	1175.1	1198.5	1211.2	1232.3	1238.7	1232.8	1211.2	1206.9	1186.6
33.5°	1082.1	1136.0	1163.4	1187.3	1193.2	1221.6	1228.0	1222.2	1193.9	1196.5	1175.4
34°	1053.1	1125.0	1152.0	1175.6	1172.6	1210.2	1216.8	1211.2	1173.8	1184.8	1163.9
34.5°	1023.6	1106.2	1140.3	1164.4	1149.2	1199.0	1206.1	1199.0	1151.0	1172.6	1152.7
35°	995.4	1085.9	1128.6	1147.9	1122.5	1186.3	1195.2	1185.8	1126.0	1157.1	1141.0
35.5°	967.4	1060.7	1116.6	1130.1	1094.3	1167.0	1184.0	1167.0	1097.8	1139.5	1129.4
36°	939.2	1032.5	1104.9	1110.5	1062.7	1149.7	1172.6	1150.2	1066.8	1121.0	1117.7
36.5°	909.9	1004.8	1092.7	1087.7	1031.2	1127.3	1161.4	1128.8	1035.8	1098.8	1106.0
37°	878.7	977.1	1080.8	1062.7	997.4	1102.4	1149.9	1105.2	1003.5	1074.4	1093.5
37.5°	847.1	949.3	1068.6	1035.8	965.6	1075.5	1138.0	1079.8	971.0	1048.8	1081.6
38°	815.4	921.4	1056.4	1006.3	934.1	1046.7	1126.3	1051.8	939.9	1020.0	1069.6
38.5°	784.1	893.4	1044.4	975.8	904.3	1016.5	1114.4	1022.3	909.4	990.3	1057.7
39°	753.3	864.4	1032.0	945.8	874.1	985.2	1102.9	991.6	879.2	959.8	1045.2
39.5°	723.3	834.4	1020.0	915.5	844.3	952.9	1090.7	960.8	849.2	929.3	1033.0
40°	693.6	802.9	1007.3	885.0	813.6	922.1	1079.0	930.0	818.4	899.0	1020.8
40.5°	665.1	772.1	994.9	856.3	782.6	892.4	1066.6	900.3	787.4	869.5	1008.6
41°	635.9	742.4	982.4	827.8	750.5	863.4	1054.4	870.5	755.1	840.8	995.9
41.5°	607.1	712.6	970.7	799.3	719.0	834.2	1041.4	841.5	723.6	812.6	982.9
42°	577.9	683.7	952.4	771.4	688.0	804.9	1028.4	812.6	692.3	784.1	969.7
42.5°	549.4	656.5	933.1	742.6	658.0	775.4	1016.0	783.3	661.8	754.9	954.4
43°	520.7	628.0	906.6	712.6	628.7	745.2	993.3	753.1	632.3	725.4	928.2
43.5°	494.0	600.0	877.7	683.9	599.5	714.9	971.0	722.3	603.3	695.4	905.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	416.7	516.1	781.0	598.2	514.6	625.9	889.3	633.1	517.9	608.9	808.8
45.5°	392.3	489.2	748.5	571.5	486.1	597.7	857.1	603.8	490.4	581.2	774.7
46°	368.9	462.7	714.2	544.8	458.9	569.8	822.2	575.9	463.0	554.3	740.1
46.5°	346.8	437.8	679.8	518.1	432.7	541.5	786.6	548.2	436.5	527.8	705.5
47°	325.2	412.4	645.5	492.0	407.3	514.1	750.3	520.4	411.4	501.4	671.2
47.5°	305.3	388.7	611.2	466.0	382.9	487.1	713.4	493.2	387.0	475.4	637.4
48°	287.3	365.6	577.9	440.6	360.0	460.7	678.3	467.0	363.8	450.5	603.8
48.5°	271.5	343.2	546.6	416.2	337.9	434.8	643.5	440.4	341.5	425.4	571.3
49°	257.5	321.6	516.6	392.6	317.0	408.8	610.9	414.9	320.3	401.7	539.8
49.5°	245.1	302.0	487.1	369.9	297.2	384.7	579.2	390.5	300.5	378.1	509.3
50°	233.4	283.2	458.4	347.0	278.7	361.0	548.2	366.9	281.7	355.7	480.0
50.5°	223.7	266.4	431.7	325.7	261.4	338.7	517.9	343.7	263.9	333.8	452.0
51°	214.3	251.2	405.8	305.6	245.3	317.6	488.4	322.4	247.9	313.7	424.3
51.5°	205.4	238.5	380.9	286.8	232.9	297.2	459.2	302.0	234.9	294.2	398.9
52°	196.3	226.8	356.7	268.7	220.2	278.4	431.7	282.5	221.7	276.1	374.2
52.5°	187.6	216.6	334.3	251.7	207.7	260.3	403.7	264.2	208.7	258.3	350.6
53°	179.0	207.0	313.0	235.9	195.0	244.3	377.3	246.9	195.5	241.8	328.5
53.5°	172.1	198.1	292.9	221.2	182.5	231.4	352.1	233.4	182.5	228.3	307.1
54°	166.8	189.4	274.3	208.0	172.6	218.1	329.8	219.9	172.6	214.8	287.6
54.5°	163.5	181.0	256.8	195.8	165.3	204.9	306.9	206.4	165.0	201.4	269.2
55°	160.7	172.1	240.8	184.3	161.2	191.7	286.3	193.0	161.2	187.9	252.5
55.5°	157.9	165.0	225.8	173.6	158.1	178.7	266.4	179.5	157.9	176.7	236.7
56°	155.1	159.2	212.5	164.0	155.3	168.3	248.7	168.8	155.1	166.8	224.2
56.5°	152.5	155.9	200.1	156.9	152.5	159.7	234.4	159.9	152.3	159.2	211.8
57°	150.0	153.1	188.9	153.1	149.7	154.3	219.9	154.1	149.7	154.8	199.3
57.5°	147.2	150.3	178.7	150.3	147.2	151.0	205.7	150.8	147.0	151.8	186.9
58°	144.7	147.7	170.3	147.5	144.4	148.2	191.2	148.0	144.4	149.0	177.0
58.5°	142.1	144.9	162.7	144.7	141.9	145.7	177.0	145.4	141.6	146.4	168.6
59°	139.6	142.4	155.9	142.1	139.3	142.9	167.0	142.9	139.1	143.6	161.2
59.5°	137.0	139.8	150.0	139.3	136.8	140.3	158.6	140.1	136.5	141.1	154.6
60°	134.5	137.3	144.9	136.8	134.0	137.8	151.5	137.5	134.0	138.6	148.7
60.5°	131.7	134.7	140.1	134.2	131.4	135.0	145.7	135.0	131.4	135.8	143.6
61°	129.2	132.2	135.8	131.4	129.2	132.5	140.1	132.5	128.6	133.2	139.1
61.5°	126.6	129.7	132.0	129.2	126.6	129.9	135.5	129.9	126.1	130.7	134.7
62°	124.1	127.1	128.4	126.6	124.1	127.6	131.2	127.4	123.6	128.1	130.9
62.5°	121.3	124.6	125.1	123.8	121.5	125.1	127.4	124.8	121.0	125.6	127.6
63°	118.7	122.0	122.3	121.3	119.0	122.5	124.1	122.0	118.2	122.8	124.3
63.5°	116.2	119.2	119.5	118.7	116.7	120.0	120.8	119.5	115.9	120.3	121.5
64°	113.6	116.7	116.7	116.2	114.2	117.5	118.2	117.0	113.4	117.7	119.0
64.5°	110.9	114.2	114.2	113.6	111.9	114.9	115.4	114.4	110.9	115.2	116.2
65°	108.3	111.6	111.6	111.4	109.3	112.6	112.9	111.9	108.3	112.6	113.6
65.5°	105.8	108.8	108.8	108.8	107.0	110.1	110.3	109.3	105.8	110.1	111.1
66°	103.2	106.3	106.3	106.3	104.5	107.5	107.5	106.8	103.2	107.5	108.3





TEST NUMBER: P776123

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	95.6	98.6	98.6	98.9	97.4	100.2	99.9	99.2	95.9	99.9	100.7
68°	93.1	96.1	96.1	96.4	95.1	97.9	97.4	96.6	93.3	97.1	98.1
68.5°	90.5	93.6	93.6	93.8	92.8	95.3	95.1	94.3	90.8	94.8	95.6
69°	88.0	91.0	91.0	92.5	90.5	93.1	92.5	91.8	88.5	92.3	93.1
69.5°	85.7	88.5	88.5	90.0	88.2	90.5	89.7	89.2	85.9	89.7	90.5
70°	83.1	85.9	85.9	87.5	85.7	88.2	87.5	86.7	83.6	87.2	88.0
70.5°	80.6	83.4	83.4	84.7	83.4	85.9	84.9	84.4	81.1	84.7	85.4
71°	78.3	81.1	80.8	82.1	81.1	83.4	82.4	81.9	78.8	82.1	82.9
71.5°	75.8	78.3	78.6	79.8	78.8	81.1	79.8	79.3	76.3	79.6	80.3
72°	73.2	76.0	76.0	77.3	76.5	78.6	77.3	77.0	74.0	77.3	77.8
72.5°	70.7	73.2	73.5	75.0	74.2	76.3	75.0	74.5	71.4	74.7	75.3
73°	68.1	70.9	70.9	72.5	72.0	74.0	72.5	72.0	69.2	72.2	72.7
73.5°	65.6	68.4	68.4	70.2	69.7	71.7	69.9	69.7	66.9	69.7	70.2
74°	63.1	65.8	65.8	67.6	67.4	69.2	67.6	67.1	64.3	67.4	67.6
74.5°	60.8	63.3	63.3	65.3	65.1	66.9	65.1	64.8	62.0	64.8	65.3
75°	58.2	60.8	61.0	63.1	62.8	64.6	62.8	62.3	59.7	62.3	62.8
75.5°	55.7	58.2	58.5	60.8	60.5	62.3	60.3	60.0	57.2	60.0	60.3
76°	53.4	55.7	55.9	58.2	58.2	60.0	57.7	57.5	54.9	57.5	57.7
76.5°	50.8	53.1	53.4	55.9	55.9	57.7	55.4	54.9	52.6	54.9	55.4
77°	48.3	50.6	50.8	53.6	53.9	55.4	53.1	52.6	50.3	52.6	52.9
77.5°	45.8	48.1	48.6	51.1	51.6	53.1	50.6	50.1	48.1	50.1	50.3
78°	43.5	45.5	46.0	48.8	49.3	50.6	48.3	47.8	45.8	47.5	48.1
78.5°	40.9	43.2	43.5	46.5	47.0	48.3	45.8	45.3	43.2	45.3	45.5
79°	38.4	40.7	41.2	44.0	44.7	46.0	43.5	43.0	40.9	42.7	43.0
79.5°	35.8	38.1	38.6	41.7	42.5	43.7	41.2	40.4	38.9	40.2	40.7
80°	33.6	35.6	36.1	39.2	40.4	41.4	38.6	38.1	36.4	37.9	38.1
80.5°	31.0	33.1	33.8	36.9	38.1	39.2	36.4	35.6	34.1	35.3	35.8
81°	28.7	30.5	31.3	34.6	35.8	36.6	34.1	33.3	31.8	33.1	33.3
81.5°	26.2	28.0	29.0	32.3	33.6	34.3	31.8	30.8	29.5	30.5	31.0
82°	23.9	25.7	26.4	30.0	31.5	32.0	29.5	28.5	27.2	28.0	28.5
82.5°	21.4	23.1	24.2	27.7	29.2	30.0	27.2	25.9	24.9	25.7	26.2
83°	19.1	20.6	21.9	25.4	27.2	27.7	25.2	23.6	22.6	23.1	23.9
83.5°	16.5	18.1	19.8	23.1	24.9	25.4	23.1	21.4	20.3	20.8	21.9
84°	14.2	15.5	17.5	20.8	22.6	23.1	21.1	18.8	18.1	18.3	19.8
84.5°	11.7	13.2	15.5	18.8	20.6	21.1	18.8	16.5	15.8	16.0	17.8
85°	9.4	10.7	13.7	16.5	18.3	18.8	16.8	14.2	13.7	13.5	15.8
85.5°	7.9	9.2	11.7	14.2	16.3	16.8	14.7	12.2	11.4	11.4	13.7
86°	6.4	7.6	9.9	12.2	14.0	14.5	13.0	10.4	9.2	9.4	11.7
86.5°	5.1	5.8	8.1	9.9	11.9	12.2	10.9	8.6	7.4	7.9	9.9
87°	3.6	4.3	6.1	7.9	9.7	10.2	9.2	7.1	6.1	6.4	7.9
87.5°	2.3	2.8	4.3	5.8	7.6	8.1	7.4	5.6	4.8	5.1	6.1
88°	1.0	1.5	2.5	3.8	5.6	6.1	5.6	4.3	3.8	3.8	4.3
88.5°	0.3	0.5	1.0	1.8	3.6	3.8	3.8	3.1	2.5	2.3	2.3



TEST NUMBER: P776123

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0



TEST NUMBER: P776123

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1536.7	1536.7	1536.7	1536.7	1536.7	1536.7
0.5°	1536.1	1535.6	1535.6	1536.1	1536.1	1536.7
1°	1535.6	1534.9	1534.6	1535.1	1535.1	1535.6
1.5°	1534.9	1533.9	1533.3	1533.6	1534.1	1534.6
2°	1534.1	1532.6	1532.1	1532.3	1532.8	1533.6
2.5°	1533.3	1531.6	1530.8	1530.8	1531.3	1532.3
3°	1532.3	1530.3	1529.0	1529.0	1529.8	1530.8
3.5°	1531.1	1529.0	1527.5	1527.5	1528.0	1529.3
4°	1529.8	1527.2	1525.7	1525.5	1526.0	1527.5
4.5°	1528.3	1525.5	1523.7	1523.4	1523.9	1525.5
5°	1526.7	1523.7	1521.4	1521.1	1521.9	1523.4
5.5°	1525.0	1521.4	1519.4	1518.6	1519.6	1521.4
6°	1523.2	1518.9	1517.1	1516.3	1517.1	1518.9
6.5°	1521.1	1516.6	1514.3	1513.8	1514.3	1516.6
7°	1518.9	1514.0	1511.5	1510.7	1511.5	1513.8
7.5°	1516.3	1511.2	1508.7	1507.7	1508.7	1511.0
8°	1513.8	1508.2	1505.6	1504.6	1505.4	1507.9
8.5°	1511.2	1505.1	1502.3	1501.3	1502.3	1504.6
9°	1508.2	1501.8	1498.8	1497.8	1498.8	1501.3
9.5°	1505.1	1498.3	1495.2	1494.2	1495.0	1498.0
10°	1502.1	1494.7	1491.4	1490.4	1491.4	1494.2
10.5°	1498.5	1490.9	1487.8	1486.6	1487.6	1490.4
11°	1495.0	1487.1	1483.5	1482.5	1483.3	1486.3
11.5°	1491.4	1483.0	1479.2	1478.2	1479.2	1482.0
12°	1487.6	1478.7	1475.1	1473.6	1474.6	1477.7
12.5°	1483.5	1474.4	1470.5	1469.0	1470.0	1473.1
13°	1479.2	1469.5	1465.7	1464.2	1465.0	1468.5
13.5°	1474.9	1464.7	1460.9	1459.4	1460.1	1463.7
14°	1470.5	1459.6	1455.8	1454.3	1455.0	1458.6
14.5°	1465.7	1454.5	1450.5	1449.2	1449.7	1453.3
15°	1460.6	1449.2	1445.1	1443.6	1444.1	1447.7
15.5°	1455.5	1443.6	1439.5	1438.0	1438.5	1442.1
16°	1450.2	1437.8	1433.7	1432.2	1432.4	1436.2
16.5°	1444.6	1431.9	1427.6	1426.3	1426.3	1430.1
17°	1439.0	1425.8	1421.5	1420.0	1420.2	1423.8
17.5°	1433.2	1419.7	1415.1	1413.6	1413.9	1417.4
18°	1427.3	1413.1	1408.5	1407.0	1407.0	1410.5
18.5°	1421.0	1406.5	1401.9	1400.1	1400.1	1403.9
19°	1414.6	1399.4	1394.8	1393.3	1393.0	1396.8
19.5°	1408.0	1392.2	1387.7	1386.1	1385.9	1389.4
20°	1401.1	1385.1	1380.3	1379.3	1378.5	1382.1
20.5°	1394.3	1377.5	1372.7	1371.6	1370.9	1374.4
21°	1386.9	1370.1	1365.0	1364.0	1363.0	1366.6



TEST NUMBER: P776123

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1364.3	1346.0	1340.9	1339.9	1338.3	1341.6
23°	1356.4	1337.3	1332.5	1331.5	1329.7	1333.0
23.5°	1348.3	1328.7	1323.6	1322.8	1321.1	1324.4
24°	1339.9	1319.8	1315.0	1313.9	1311.9	1315.5
24.5°	1331.5	1310.6	1306.1	1304.8	1302.7	1306.1
25°	1322.8	1301.2	1297.2	1295.9	1293.6	1296.6
25.5°	1313.9	1291.8	1287.2	1286.5	1284.2	1287.0
26°	1304.8	1282.4	1278.1	1277.1	1274.5	1277.3
26.5°	1295.6	1272.7	1268.4	1267.4	1264.6	1267.4
27°	1286.0	1262.8	1258.5	1257.7	1254.7	1257.2
27.5°	1276.3	1252.4	1248.6	1247.6	1244.5	1246.8
28°	1266.6	1242.2	1238.2	1237.2	1234.4	1236.4
28.5°	1257.0	1231.6	1227.7	1226.7	1223.7	1226.0
29°	1246.6	1221.1	1217.3	1216.3	1213.3	1215.3
29.5°	1236.4	1210.5	1206.6	1205.6	1202.6	1204.4
30°	1225.7	1199.5	1196.0	1194.7	1191.6	1193.4
30.5°	1215.0	1188.1	1184.8	1183.5	1180.7	1182.2
31°	1204.1	1176.6	1173.8	1172.3	1169.5	1171.0
31.5°	1193.7	1164.7	1162.2	1160.9	1158.1	1159.9
32°	1182.5	1153.5	1150.7	1149.4	1146.9	1148.9
32.5°	1171.3	1134.4	1139.3	1137.7	1135.5	1129.4
33°	1159.9	1114.1	1127.6	1126.3	1123.8	1109.0
33.5°	1148.2	1086.1	1114.9	1114.4	1111.8	1082.1
34°	1136.0	1057.1	1103.7	1102.4	1100.9	1053.1
34.5°	1124.5	1027.9	1082.8	1090.2	1087.7	1023.6
35°	1106.5	998.9	1063.0	1078.0	1065.3	995.4
35.5°	1086.4	970.7	1034.5	1065.8	1044.4	967.4
36°	1060.5	942.5	1008.6	1053.6	1017.7	939.2
36.5°	1031.7	913.0	980.4	1041.4	989.5	909.9
37°	1004.5	882.2	953.2	1028.7	962.1	878.7
37.5°	976.0	850.7	925.4	1016.2	935.6	847.1
38°	948.1	817.9	898.5	1003.8	908.9	815.4
38.5°	920.4	786.1	870.8	991.3	881.5	784.1
39°	893.2	755.4	842.1	978.8	854.3	753.3
39.5°	862.9	725.1	811.8	966.1	825.3	723.3
40°	832.6	695.9	782.1	953.4	795.8	693.6
40.5°	801.4	667.4	752.3	940.7	766.0	665.1
41°	771.6	638.4	722.3	928.2	736.3	635.9
41.5°	740.6	608.9	693.1	914.8	707.8	607.1
42°	711.1	579.7	666.6	895.2	680.1	577.9
42.5°	682.6	551.5	639.7	874.1	653.4	549.4
43°	655.4	522.7	612.0	843.1	625.9	520.7
43.5°	626.5	496.0	585.3	812.6	598.7	494.0

TEST NUMBER: P776123

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	543.8	419.0	503.4	709.8	517.4	416.7
45.5°	515.4	394.1	478.5	678.1	492.0	392.3
46°	488.7	370.7	452.8	647.3	466.5	368.9
46.5°	462.5	348.1	428.7	617.3	441.6	346.8
47°	437.3	326.7	404.2	587.3	417.5	325.2
47.5°	412.6	306.9	381.4	557.3	394.3	305.3
48°	388.7	288.6	358.5	527.6	370.9	287.3
48.5°	365.6	272.5	336.9	499.6	349.1	271.5
49°	343.2	258.3	316.8	472.4	328.2	257.5
49.5°	322.1	245.9	298.0	446.2	308.7	245.1
50°	301.8	234.9	279.7	420.5	289.3	233.4
50.5°	283.0	224.5	264.2	397.4	272.5	223.7
51°	266.2	215.1	249.7	375.0	257.3	214.3
51.5°	251.4	206.2	237.2	353.4	243.8	205.4
52°	238.5	197.5	226.0	333.1	231.6	196.3
52.5°	227.0	188.6	216.1	313.5	220.9	187.6
53°	217.6	180.0	207.0	294.9	211.0	179.0
53.5°	208.2	172.6	197.8	277.6	201.9	172.1
54°	198.8	167.0	189.2	261.1	193.0	166.8
54.5°	189.7	163.5	180.5	245.9	184.6	163.5
55°	181.0	160.7	172.1	231.9	175.9	160.7
55.5°	172.1	157.9	165.3	218.7	168.1	157.9
56°	164.8	155.3	159.9	206.7	161.7	155.1
56.5°	158.9	152.5	156.9	196.0	157.9	152.5
57°	155.3	150.0	154.1	185.9	154.8	150.0
57.5°	152.5	147.2	151.3	176.7	152.0	147.2
58°	150.0	144.7	148.7	168.6	149.5	144.7
58.5°	147.2	142.1	145.9	161.2	146.7	142.1
59°	144.7	139.6	143.4	155.1	144.2	139.6
59.5°	142.1	137.0	140.9	149.5	141.6	137.0
60°	139.6	134.5	138.3	144.4	138.8	134.5
60.5°	137.0	132.0	135.8	140.1	136.3	131.7
61°	134.5	129.4	133.2	136.0	133.7	129.2
61.5°	132.0	127.1	130.7	132.2	131.2	126.6
62°	129.4	124.6	128.1	128.9	128.4	124.1
62.5°	126.9	122.0	125.6	125.9	125.9	121.3
63°	124.3	119.7	123.1	123.3	123.3	118.7
63.5°	121.8	117.2	120.5	120.5	120.5	116.2
64°	119.2	114.7	118.0	118.0	118.0	113.6
64.5°	116.7	112.4	115.4	115.2	115.2	110.9
65°	114.4	109.8	112.9	112.6	112.6	108.3
65.5°	111.9	107.5	110.3	109.8	109.8	105.8
66°	109.3	105.0	107.8	107.3	107.3	103.2



TEST NUMBER: P776123

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	102.0	97.9	100.4	99.7	99.4	95.6
68°	99.4	95.3	97.9	97.1	96.6	93.1
68.5°	96.9	93.1	95.3	94.3	94.1	90.5
69°	94.3	90.8	93.1	91.3	92.8	88.0
69.5°	92.0	88.5	90.5	89.0	90.0	85.7
70°	89.5	86.2	88.2	86.4	87.2	83.1
70.5°	87.0	83.6	85.7	84.2	84.2	80.6
71°	84.7	81.4	83.1	81.9	81.4	78.3
71.5°	82.1	79.1	80.8	79.1	78.8	75.8
72°	79.8	76.8	78.3	76.5	76.3	73.2
72.5°	77.3	74.2	76.0	74.0	73.7	70.7
73°	74.7	72.0	73.5	71.4	70.9	68.1
73.5°	72.5	69.4	70.9	68.9	68.4	65.6
74°	69.9	67.1	68.4	66.4	65.8	63.1
74.5°	67.6	64.8	66.1	63.8	63.3	60.8
75°	65.1	62.5	63.6	61.3	60.8	58.2
75.5°	62.8	60.0	61.0	58.7	58.2	55.7
76°	60.3	57.7	58.7	56.2	55.4	53.4
76.5°	58.0	55.4	56.2	53.6	52.9	50.8
77°	55.4	53.1	53.9	51.1	50.3	48.3
77.5°	53.1	50.6	51.4	48.6	47.8	45.8
78°	50.6	48.3	48.8	46.0	45.3	43.5
78.5°	48.3	46.0	46.5	43.5	42.7	40.9
79°	45.8	43.5	44.0	40.9	40.2	38.4
79.5°	43.2	41.2	41.4	38.4	37.6	35.8
80°	40.9	38.9	38.9	36.1	34.8	33.6
80.5°	38.4	36.6	36.6	33.6	32.3	31.0
81°	36.1	34.3	34.1	31.3	29.7	28.7
81.5°	33.6	32.0	31.8	28.7	27.2	26.2
82°	31.3	29.5	29.2	26.4	24.7	23.9
82.5°	29.0	27.2	26.9	24.2	22.1	21.4
83°	26.7	24.9	24.7	21.9	19.6	19.1
83.5°	24.4	22.6	22.1	19.6	17.0	16.5
84°	21.9	20.3	19.8	17.5	14.7	14.2
84.5°	19.6	18.1	17.5	15.3	12.7	11.7
85°	17.3	15.8	15.3	13.2	10.7	9.4
85.5°	15.0	13.5	12.7	11.2	8.9	7.9
86°	12.7	11.2	10.4	9.2	7.4	6.4
86.5°	10.4	8.9	8.4	7.1	5.8	5.1
87°	8.4	6.9	6.4	5.1	4.1	3.6
87.5°	6.1	4.8	4.3	3.3	2.5	2.3
88°	4.1	2.5	2.3	1.3	1.0	1.0
88.5°	1.8	0.5	0.3	0.3	0.3	0.3



TEST NUMBER: P776123  
CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

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





21.5°	1358.2	1372.2	1390.2	1404.4	1418.7	1427.8	1431.9	1427.8	1419.7	1409.5	1396.1
22°	1350.0	1364.3	1382.8	1397.6	1412.1	1421.5	1425.8	1421.7	1413.1	1402.9	1388.9



44°	467.0	571.3	846.4	654.7	570.5	684.2	947.6	691.8	574.3	665.9	874.6
44.5°	441.6	543.8	814.6	626.5	542.3	654.7	919.1	662.1	546.1	637.1	842.1



66.5°	100.7	103.7	103.7	103.7	102.2	105.0	105.0	104.2	100.7	105.0	105.8
67°	98.1	101.2	101.2	101.4	99.9	102.7	102.5	101.7	98.1	102.5	103.2



89°	0.0	0.3	0.3	0.5	1.5	2.0	2.0	1.5	1.3	1.0	0.8
89.5°	0.0	0.0	0.3	0.3	0.3	0.5	0.8	0.5	0.3	0.3	0.3



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21.5°	1379.5	1362.2	1357.2	1356.1	1354.9	1358.2
22°	1372.2	1354.1	1349.0	1348.3	1347.0	1350.0



44°	598.5	468.8	557.6	776.0	571.5	467.0
44.5°	570.8	443.9	530.6	743.2	544.6	441.6

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66.5°	106.8	102.7	105.3	104.7	104.5	100.7
67°	104.2	100.2	103.0	102.2	102.0	98.1

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89°	0.5	0.0	0.3	0.3	0.3	0.0
89.5°	0.0	0.0	0.0	0.3	0.3	0.0

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Scaled Data Report



(END OF REPORT)