

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: P776030

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B036)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD61TRH-2500lm-2700K  
Description: 6 INCH ROUND SHALLOW-WIDE HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

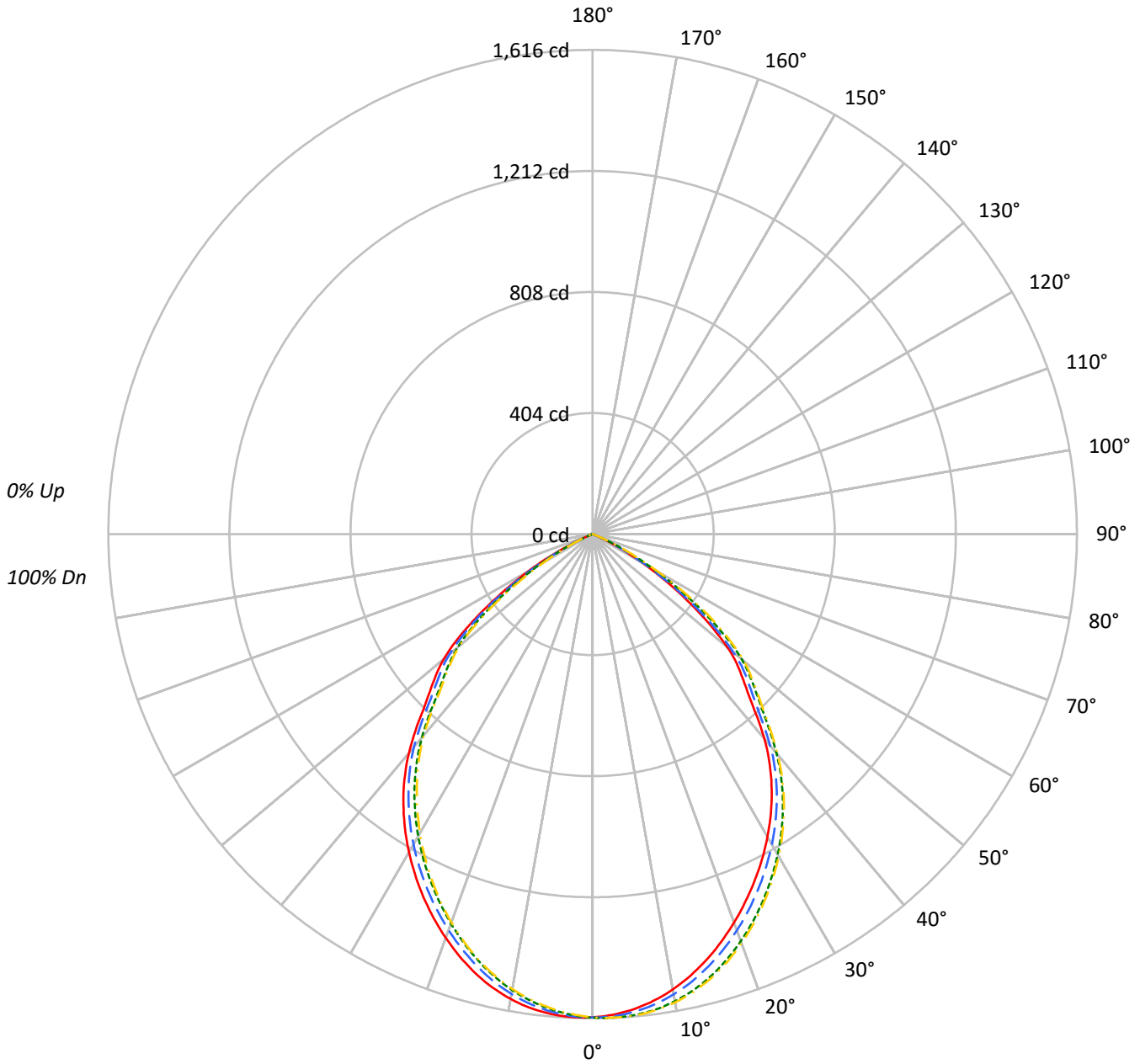
Lumens per Lamp: N/A  
Luminaire Lumens: 2880.6 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-2700K

### Luminous Intensity Polar Plot





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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								
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90								
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80								
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71								
4	90	80	73	68	88	79	72	67	77	71	66	74	70	65	72	68	65	63								
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50								
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45								
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41								
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34								

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

	0°	90°	180°	270°
0°	88425	88425	88425	88425
5°	87563	88669	88471	87618
10°	85892	88119	87702	86043
15°	83445	86652	86045	83655
20°	80489	84363	83640	80676
25°	77303	81489	80817	77345
30°	73885	78196	77601	73689
35°	69734	74064	73676	69346
40°	63798	68307	68206	63440
45°	56138	60851	60650	55742
50°	49943	55376	55171	50165
55°	36816	42627	42933	37810
60°	21040	26270	26906	22575
65°	6071	9871	9301	7887
70°	160	240	160	465
75°	106	106	106	106
80°	63	63	63	63
85°	126	0	0	126

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 61440 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.5	5.3
10°-20°	421.0	14.6
20°-30°	602.3	20.9
30°-40°	666.7	23.1
40°-50°	585.8	20.3
50°-60°	373.0	12.9
60°-70°	79.4	2.8
70°-80°	0.6	0.0
80°-90°	0.3	0.0
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°	1174.9	40.8
0°-40°	1841.6	63.9
0°-60°	2800.3	97.2
0°-90°	2880.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1613	1613	1613	1613	1613	
5°	1591	1611	1608	1592	1591	150
15°	1470	1527	1516	1474	1470	413
25°	1278	1347	1336	1279	1278	588
35°	1042	1107	1101	1036	1042	648
45°	724	785	782	719	724	563
55°	385	446	449	396	385	343
65°	47	76	72	61	47	62
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	1	0	



TEST NUMBER: P776030

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0
0.5°	1611.8	1612.5	1613.3	1613.0	1614.7	1614.5	1613.7	1613.5	1613.5	1613.5	1613.3
1°	1610.6	1611.6	1613.0	1613.0	1615.2	1615.2	1614.5	1614.2	1614.0	1613.5	1612.8
1.5°	1609.1	1610.6	1612.3	1613.0	1615.7	1615.9	1615.2	1614.7	1614.0	1613.3	1612.0
2°	1607.2	1609.1	1611.3	1612.5	1615.7	1616.2	1615.7	1615.0	1614.0	1612.5	1611.1
2.5°	1605.3	1607.4	1610.1	1611.8	1615.7	1616.4	1615.7	1615.0	1613.5	1611.8	1609.9
3°	1603.1	1605.5	1608.7	1611.1	1615.2	1616.2	1615.7	1614.5	1613.0	1610.8	1608.4
3.5°	1600.4	1603.3	1607.0	1609.9	1614.7	1615.7	1615.4	1614.0	1612.0	1609.4	1606.5
4°	1597.5	1600.9	1605.0	1608.4	1613.7	1615.2	1614.7	1613.3	1610.8	1607.9	1604.3
4.5°	1594.4	1598.2	1602.6	1606.5	1612.8	1614.5	1614.0	1612.3	1609.4	1606.0	1602.1
5°	1591.2	1595.1	1599.9	1604.5	1611.3	1613.3	1612.8	1610.8	1607.7	1603.8	1599.7
5.5°	1587.6	1591.7	1597.0	1602.4	1609.9	1611.8	1611.6	1609.4	1605.5	1601.4	1596.8
6°	1583.5	1588.1	1594.1	1599.9	1607.9	1610.3	1609.9	1607.4	1603.3	1598.5	1593.4
6.5°	1579.6	1584.2	1590.7	1597.0	1605.7	1608.4	1607.9	1605.3	1600.9	1595.6	1590.2
7°	1575.2	1580.1	1587.1	1593.9	1603.3	1606.2	1605.7	1602.8	1598.2	1592.4	1586.6
7.5°	1570.4	1575.7	1583.2	1590.5	1600.4	1603.8	1603.3	1600.2	1595.1	1588.8	1582.5
8°	1565.5	1570.9	1578.9	1586.8	1597.8	1601.1	1600.7	1597.0	1591.7	1585.2	1578.4
8.5°	1560.2	1566.0	1574.5	1583.2	1594.4	1598.2	1597.8	1593.9	1588.1	1581.0	1573.8
9°	1554.9	1560.7	1569.9	1578.9	1590.7	1594.8	1594.4	1590.2	1583.9	1576.7	1568.9
9.5°	1549.1	1555.4	1564.8	1574.5	1586.8	1591.5	1590.7	1586.6	1579.8	1572.1	1564.1
10°	1543.0	1549.3	1559.5	1569.9	1583.0	1587.6	1587.1	1582.5	1575.5	1567.2	1558.7
10.5°	1536.7	1543.2	1554.1	1564.8	1578.6	1583.5	1583.0	1578.1	1570.9	1562.1	1553.2
11°	1530.2	1537.2	1548.3	1559.5	1574.0	1579.1	1578.6	1573.3	1565.5	1556.8	1547.4
11.5°	1523.4	1530.6	1542.3	1553.9	1568.9	1574.3	1573.8	1568.4	1560.2	1551.0	1541.3
12°	1516.6	1523.9	1536.2	1548.1	1563.8	1569.4	1568.9	1563.1	1554.9	1544.9	1535.0
12.5°	1509.3	1517.1	1529.7	1542.3	1558.3	1564.1	1563.6	1557.8	1549.1	1538.9	1528.5
13°	1501.8	1510.1	1522.9	1536.0	1552.4	1558.7	1558.0	1552.0	1542.8	1532.3	1521.7
13.5°	1494.3	1502.5	1515.9	1529.4	1546.4	1552.9	1552.2	1545.9	1536.7	1525.8	1514.9
14°	1486.6	1495.0	1508.8	1522.4	1540.1	1546.9	1546.1	1539.6	1529.9	1518.8	1507.6
14.5°	1478.6	1487.0	1501.3	1515.9	1533.6	1540.3	1539.6	1533.1	1522.9	1511.7	1499.9
15°	1470.3	1479.0	1493.8	1508.4	1526.8	1533.8	1533.1	1526.0	1516.1	1504.2	1492.4
15.5°	1462.1	1471.0	1485.8	1501.1	1519.7	1526.8	1526.0	1519.0	1508.8	1496.7	1484.6
16°	1453.4	1462.6	1477.8	1492.8	1512.5	1520.0	1518.8	1511.7	1500.8	1489.0	1476.4
16.5°	1444.9	1454.1	1469.8	1485.6	1504.7	1512.5	1511.3	1504.2	1493.3	1481.0	1468.1
17°	1435.7	1445.4	1461.4	1477.3	1497.0	1505.0	1503.8	1496.5	1485.3	1473.0	1459.9
17.5°	1426.7	1436.6	1452.6	1468.9	1489.0	1496.7	1496.0	1488.2	1477.3	1464.5	1451.4
18°	1417.5	1427.7	1444.2	1460.1	1480.7	1488.7	1487.5	1480.0	1468.9	1456.0	1442.2
18.5°	1408.3	1418.5	1435.2	1451.9	1472.3	1480.3	1479.3	1471.8	1460.1	1447.3	1433.7
19°	1398.9	1409.5	1426.2	1442.9	1463.5	1471.8	1470.8	1463.1	1451.7	1438.6	1424.5
19.5°	1389.6	1400.3	1417.0	1434.2	1454.8	1463.1	1462.1	1454.6	1442.7	1429.6	1415.6
20°	1379.7	1390.6	1407.6	1424.8	1446.1	1454.1	1453.1	1445.6	1433.7	1420.4	1406.1
20.5°	1370.0	1380.9	1398.1	1415.3	1436.6	1445.1	1444.2	1436.4	1424.8	1411.2	1396.9
21°	1360.1	1371.5	1388.7	1406.1	1427.4	1435.7	1434.7	1427.2	1415.3	1401.8	1387.0



TEST NUMBER: P776030

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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°	1329.8	1341.7	1359.1	1376.6	1398.4	1406.6	1405.9	1398.1	1386.7	1372.7	1357.7
23°	1319.9	1331.7	1348.9	1366.6	1388.2	1396.7	1395.9	1388.4	1376.8	1362.8	1347.2
23.5°	1309.5	1321.6	1338.8	1356.5	1378.3	1386.7	1385.8	1378.5	1366.6	1352.8	1337.3
24°	1299.0	1311.1	1328.1	1346.0	1368.3	1376.6	1375.8	1368.1	1356.7	1342.6	1326.9
24.5°	1288.6	1300.7	1317.9	1335.9	1357.9	1365.7	1365.4	1357.7	1346.3	1332.0	1316.7
25°	1278.0	1290.3	1307.3	1325.0	1347.2	1355.2	1354.8	1347.2	1336.1	1321.8	1306.1
25.5°	1267.5	1279.9	1296.9	1314.5	1336.6	1344.6	1344.1	1336.8	1325.7	1311.1	1295.6
26°	1256.6	1269.5	1286.2	1303.9	1325.9	1333.4	1333.2	1326.4	1315.0	1300.5	1284.7
26.5°	1245.7	1258.6	1275.1	1293.0	1315.0	1322.8	1322.5	1315.5	1304.1	1289.6	1274.1
27°	1235.1	1247.9	1264.1	1282.1	1304.1	1311.4	1311.6	1304.1	1293.5	1278.7	1263.2
27.5°	1223.9	1237.0	1253.2	1270.4	1292.7	1300.2	1300.5	1293.2	1282.6	1267.8	1252.0
28°	1212.8	1225.9	1241.9	1259.3	1281.6	1289.3	1288.9	1282.3	1271.4	1256.6	1240.6
28.5°	1201.4	1214.5	1230.5	1247.7	1270.0	1277.2	1277.2	1270.9	1260.3	1245.3	1229.7
29°	1190.0	1203.6	1219.1	1236.3	1258.6	1265.6	1265.8	1259.1	1248.9	1233.9	1218.4
29.5°	1178.6	1192.0	1207.7	1224.4	1246.9	1253.7	1254.2	1247.4	1237.5	1222.5	1207.0
30°	1167.2	1180.6	1196.1	1212.8	1235.3	1242.3	1242.1	1236.0	1225.9	1210.9	1195.1
30.5°	1155.1	1168.9	1184.2	1201.2	1222.7	1229.7	1229.7	1224.2	1213.8	1199.0	1183.2
31°	1143.0	1157.1	1172.3	1188.8	1210.9	1217.4	1217.9	1211.6	1202.1	1187.4	1171.6
31.5°	1131.1	1145.2	1160.0	1176.4	1198.3	1205.0	1205.3	1199.7	1189.8	1175.2	1159.7
32°	1119.0	1133.3	1147.9	1164.1	1185.9	1192.9	1192.7	1187.4	1177.9	1162.9	1147.6
32.5°	1106.7	1120.7	1135.5	1151.7	1173.3	1179.8	1179.6	1175.0	1165.5	1150.8	1135.0
33°	1094.1	1108.4	1122.9	1139.1	1160.5	1166.8	1167.2	1162.2	1152.9	1138.4	1122.7
33.5°	1081.5	1095.5	1110.3	1126.1	1147.1	1153.7	1153.9	1149.3	1139.9	1126.1	1110.3
34°	1068.4	1082.9	1097.5	1113.5	1134.1	1140.8	1140.6	1136.2	1127.0	1113.0	1097.5
34.5°	1055.3	1070.1	1084.4	1099.7	1120.7	1126.5	1127.0	1122.7	1113.9	1099.9	1084.6
35°	1042.0	1056.8	1071.3	1086.3	1106.7	1113.2	1113.5	1109.1	1100.9	1087.1	1071.3
35.5°	1028.2	1043.4	1058.0	1072.5	1093.1	1098.9	1099.4	1095.5	1087.1	1074.0	1058.0
36°	1014.4	1030.1	1044.2	1058.7	1079.1	1085.1	1085.4	1081.7	1073.7	1060.6	1045.1
36.5°	1000.1	1015.8	1030.4	1044.4	1065.0	1070.1	1071.1	1067.2	1059.7	1046.6	1031.6
37°	986.0	1001.5	1016.3	1030.1	1049.7	1055.6	1056.0	1052.7	1045.9	1032.8	1017.5
37.5°	971.5	986.8	1001.8	1015.6	1035.0	1040.1	1040.8	1037.9	1031.1	1019.0	1003.5
38°	956.2	972.2	987.0	1000.1	1019.7	1024.8	1025.8	1022.6	1016.1	1004.4	989.9
38.5°	941.0	957.0	971.7	984.6	1004.0	1009.3	1010.3	1006.9	1001.3	989.7	974.6
39°	925.0	941.4	956.0	969.1	988.0	992.8	994.0	991.1	986.0	974.6	959.4
39.5°	908.5	924.2	939.3	952.1	971.2	976.3	977.5	974.9	970.0	958.7	943.1
40°	891.5	907.3	921.8	934.9	954.5	959.6	960.6	958.4	953.1	942.4	927.9
40.5°	873.1	889.4	904.1	917.2	936.6	941.9	943.6	941.2	936.1	925.5	910.2
41°	855.4	871.4	886.2	899.5	919.2	924.5	925.7	923.5	918.9	907.8	892.5
41.5°	838.0	853.5	868.3	881.9	901.7	906.8	908.5	905.8	901.0	889.6	874.6
42°	820.3	835.6	850.4	863.9	884.0	890.1	891.5	889.1	883.8	872.6	858.1
42.5°	800.9	816.7	831.7	845.5	866.3	872.2	874.1	871.9	866.3	855.2	839.9
43°	783.5	799.0	814.3	827.8	848.2	854.2	856.2	853.5	848.2	836.5	822.0
43.5°	767.3	782.5	797.8	811.4	831.2	837.3	839.0	835.8	829.5	817.9	803.4



TEST NUMBER: P776030

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	724.1	739.2	753.7	766.5	784.9	790.8	792.5	789.1	782.3	770.4	756.6
45.5°	710.6	725.8	740.4	753.0	770.9	776.5	778.2	774.8	768.0	756.6	742.5
46°	698.0	713.2	727.3	739.9	757.3	762.7	764.4	761.0	754.4	743.0	729.2
46.5°	685.4	700.6	714.4	726.8	744.0	749.6	751.3	748.1	741.3	730.0	716.1
47°	673.0	688.0	702.1	714.2	730.9	736.5	738.2	735.0	728.3	717.4	703.8
47.5°	660.7	675.7	689.5	701.6	718.1	723.9	725.6	722.0	715.4	704.8	691.2
48°	648.1	663.1	676.4	689.0	705.2	711.3	712.7	709.4	703.1	692.4	678.8
48.5°	634.0	648.8	662.8	675.7	692.6	698.7	700.4	697.2	690.5	679.8	666.5
49°	618.8	632.6	646.9	660.9	678.8	685.4	687.6	684.2	676.9	665.7	652.9
49.5°	603.2	616.3	630.9	645.4	664.3	671.3	673.3	669.4	662.1	650.5	637.4
50°	585.6	598.2	612.7	628.4	649.3	657.0	659.0	654.8	646.9	635.2	622.1
50.5°	566.9	579.7	594.8	611.0	632.8	640.8	642.5	639.6	630.9	619.2	605.2
51°	547.8	561.1	575.1	592.1	615.1	622.4	625.0	622.1	613.9	601.5	587.7
51.5°	528.4	541.5	555.8	572.2	596.5	604.2	607.6	603.5	596.2	583.4	569.6
52°	508.5	521.4	535.4	551.4	576.1	585.3	588.7	584.8	577.1	564.5	550.9
52.5°	488.4	501.0	515.5	530.3	555.3	565.9	569.3	565.5	556.7	544.6	531.8
53°	467.8	480.4	494.0	508.3	533.7	545.8	550.2	545.1	535.2	523.8	512.4
53.5°	447.2	459.3	473.1	486.2	511.9	525.7	530.8	525.2	514.1	503.4	492.0
54°	426.4	438.3	451.1	463.7	489.9	504.4	510.5	503.4	492.5	482.1	471.5
54.5°	405.8	418.2	429.3	441.7	468.1	483.3	489.4	482.1	470.5	460.8	450.6
55°	385.2	396.8	407.0	419.4	446.0	462.7	469.0	461.3	449.2	439.5	430.3
55.5°	364.4	375.8	385.4	397.3	424.7	440.9	448.4	440.0	428.3	417.7	408.9
56°	344.0	354.4	363.6	374.8	402.6	419.1	426.6	417.7	406.8	395.6	387.9
56.5°	323.9	334.1	341.6	353.2	381.1	398.0	405.3	396.6	385.7	374.1	366.8
57°	304.0	313.0	319.8	331.7	359.5	375.8	383.8	375.5	364.6	353.0	346.2
57.5°	284.2	292.7	299.0	311.1	339.2	354.7	362.7	354.9	344.5	331.9	324.9
58°	264.8	272.3	278.6	290.2	318.6	333.1	340.9	333.8	323.9	310.8	304.5
58.5°	245.9	252.7	258.3	270.6	298.7	312.5	319.6	313.7	304.5	291.0	284.7
59°	227.2	232.8	238.4	251.0	278.6	291.7	298.2	293.1	284.4	271.3	264.6
59.5°	209.8	214.2	219.5	231.6	259.0	271.6	277.2	274.0	264.6	252.4	245.4
60°	191.9	195.0	200.8	213.2	239.6	251.5	256.8	253.7	245.4	234.8	227.2
60.5°	174.7	177.3	182.9	195.3	221.4	232.8	237.7	235.2	227.5	217.1	209.3
61°	158.2	159.9	165.2	177.1	203.5	214.2	218.5	217.1	209.6	199.4	191.4
61.5°	142.2	143.7	148.8	161.3	185.3	195.5	199.4	198.7	191.6	181.7	173.5
62°	126.5	127.4	133.2	144.9	167.2	176.9	180.2	180.2	173.7	164.0	155.5
62.5°	111.9	112.4	118.0	129.4	150.2	158.2	161.1	161.8	155.8	148.0	139.8
63°	97.6	97.9	103.9	114.8	134.0	141.2	143.9	144.9	137.4	132.8	124.5
63.5°	83.1	84.8	90.1	100.8	118.2	124.5	127.4	128.2	120.2	118.0	110.2
64°	71.0	74.1	79.5	87.2	103.4	109.3	111.9	112.7	103.4	103.7	96.7
64.5°	58.9	63.7	68.8	76.3	89.2	94.5	97.1	97.4	87.2	90.4	83.8
65°	46.8	53.5	58.1	65.4	76.1	80.4	83.3	83.3	71.7	77.3	72.0
65.5°	34.6	43.1	47.5	54.5	63.5	67.6	70.3	69.8	57.9	65.4	61.3
66°	25.4	32.7	36.8	43.6	51.8	55.5	58.1	57.2	45.1	54.0	50.6





TEST NUMBER: P776030  
 CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	8.0	13.8	16.0	17.7	27.1	29.3	31.5	30.8	20.6	30.0	28.3
68°	6.3	9.4	11.1	11.9	20.1	21.8	23.5	23.3	12.4	23.0	22.0
68.5°	4.6	7.3	6.8	7.5	12.8	14.3	15.7	15.7	4.1	16.0	15.5
69°	2.9	5.3	5.3	5.8	5.8	7.0	8.0	8.2	1.9	9.2	9.2
69.5°	1.2	3.1	3.9	4.1	2.9	3.6	4.1	4.6	1.2	5.6	5.3
70°	1.0	1.2	2.4	2.4	1.5	1.7	1.9	2.2	1.0	2.9	2.9
70.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.0	1.5	1.5
71°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0
72°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
73°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
73.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
74°	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7
74.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.5
78°	0.5	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
78.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
85.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
86°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
86.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
87°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
87.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
88°	0.2	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2
88.5°	0.2	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2



TEST NUMBER: P776030

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.2	0.7	0.7	0.5	0.2	0.0	0.0	0.2	0.0	0.5	0.2



TEST NUMBER: P776030

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0
0.5°	1612.0	1612.8	1612.0	1611.1	1611.3	1611.8
1°	1611.3	1611.6	1610.6	1609.6	1609.9	1610.6
1.5°	1610.1	1609.9	1608.7	1607.7	1607.9	1609.1
2°	1608.9	1608.2	1606.7	1605.7	1606.2	1607.2
2.5°	1607.2	1606.0	1604.5	1603.3	1603.8	1605.3
3°	1605.3	1603.8	1602.1	1600.9	1601.4	1603.1
3.5°	1603.3	1601.1	1599.4	1598.2	1598.7	1600.4
4°	1600.9	1598.5	1596.5	1595.3	1595.8	1597.5
4.5°	1598.2	1595.3	1593.4	1591.9	1592.7	1594.4
5°	1595.3	1592.2	1590.2	1588.8	1589.3	1591.2
5.5°	1592.2	1588.5	1586.6	1584.9	1585.4	1587.6
6°	1588.8	1584.9	1582.7	1581.3	1581.5	1583.5
6.5°	1584.9	1581.0	1578.9	1577.2	1577.2	1579.6
7°	1581.0	1576.7	1574.5	1572.8	1573.0	1575.2
7.5°	1576.9	1572.1	1569.9	1568.2	1568.4	1570.4
8°	1572.3	1567.5	1565.0	1563.3	1563.3	1565.5
8.5°	1567.5	1562.4	1560.2	1558.3	1558.3	1560.2
9°	1562.4	1557.1	1554.9	1553.2	1552.7	1554.9
9.5°	1557.1	1551.5	1549.3	1547.6	1547.1	1549.1
10°	1551.5	1545.7	1543.5	1541.8	1541.1	1543.0
10.5°	1545.7	1539.6	1537.4	1535.7	1535.0	1536.7
11°	1539.4	1533.3	1531.1	1529.4	1528.5	1530.2
11.5°	1533.1	1526.5	1524.6	1522.9	1521.9	1523.4
12°	1526.8	1520.0	1517.8	1516.1	1514.9	1516.6
12.5°	1519.7	1512.7	1510.8	1509.1	1507.9	1509.3
13°	1512.7	1505.4	1503.8	1502.1	1500.4	1501.8
13.5°	1505.2	1497.7	1496.2	1494.3	1492.8	1494.3
14°	1497.7	1489.9	1488.5	1486.6	1485.1	1486.6
14.5°	1490.2	1482.2	1480.7	1478.8	1477.1	1478.6
15°	1481.9	1474.0	1472.5	1470.6	1468.6	1470.3
15.5°	1473.7	1465.7	1464.0	1462.3	1460.4	1462.1
16°	1465.5	1457.0	1455.3	1453.6	1451.9	1453.4
16.5°	1457.0	1448.3	1446.8	1445.1	1442.9	1444.9
17°	1448.5	1439.6	1437.9	1436.2	1434.2	1435.7
17.5°	1439.8	1430.3	1428.6	1427.0	1424.8	1426.7
18°	1430.6	1421.1	1419.4	1417.7	1415.6	1417.5
18.5°	1421.4	1411.7	1409.8	1408.3	1406.1	1408.3
19°	1411.9	1402.2	1400.3	1398.6	1396.7	1398.9
19.5°	1402.7	1392.8	1390.6	1388.9	1387.0	1389.6
20°	1393.3	1382.9	1380.4	1378.7	1377.0	1379.7
20.5°	1383.6	1372.9	1370.5	1368.8	1367.1	1370.0
21°	1373.9	1362.5	1360.3	1358.4	1356.9	1360.1



TEST NUMBER: P776030

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1343.9	1332.0	1328.8	1326.9	1326.2	1329.8
23°	1333.7	1321.3	1318.2	1315.5	1315.8	1319.9
23.5°	1323.5	1310.7	1307.3	1305.1	1305.1	1309.5
24°	1313.1	1300.0	1296.1	1293.7	1294.4	1299.0
24.5°	1302.4	1289.3	1285.2	1282.8	1283.3	1288.6
25°	1292.0	1278.7	1273.8	1271.2	1272.4	1278.0
25.5°	1281.4	1267.8	1262.7	1260.3	1261.7	1267.5
26°	1270.4	1256.6	1251.1	1248.2	1250.6	1256.6
26.5°	1259.5	1245.3	1239.9	1237.0	1239.4	1245.7
27°	1248.6	1234.1	1228.1	1225.1	1228.1	1235.1
27.5°	1237.7	1222.7	1216.4	1213.3	1216.4	1223.9
28°	1226.6	1211.1	1204.6	1201.4	1204.8	1212.8
28.5°	1215.2	1199.5	1192.7	1189.3	1193.2	1201.4
29°	1203.8	1187.8	1180.6	1176.9	1181.5	1190.0
29.5°	1192.4	1176.0	1168.5	1164.8	1169.4	1178.6
30°	1180.8	1164.1	1155.9	1152.7	1157.3	1167.2
30.5°	1168.9	1152.0	1143.5	1140.1	1145.2	1155.1
31°	1157.3	1139.6	1130.9	1127.3	1132.8	1143.0
31.5°	1145.0	1127.3	1118.3	1114.7	1120.2	1131.1
32°	1132.6	1114.9	1105.2	1101.8	1107.9	1119.0
32.5°	1120.5	1102.3	1092.4	1089.0	1095.0	1106.7
33°	1107.9	1089.2	1079.5	1076.2	1082.2	1094.1
33.5°	1095.3	1076.2	1066.5	1062.8	1069.4	1081.5
34°	1082.2	1063.1	1053.4	1049.5	1056.3	1068.4
34.5°	1069.1	1049.7	1039.6	1036.2	1043.0	1055.3
35°	1056.0	1036.2	1026.0	1022.6	1029.4	1042.0
35.5°	1042.7	1022.4	1012.7	1009.0	1015.8	1028.2
36°	1029.4	1008.3	998.6	995.2	1002.0	1014.4
36.5°	1015.3	994.3	984.8	981.2	988.2	1000.1
37°	1001.0	979.7	970.3	967.1	973.9	986.0
37.5°	986.8	964.9	955.7	952.8	959.4	971.5
38°	972.0	950.2	941.2	938.1	944.6	956.2
38.5°	957.0	934.7	925.9	923.0	929.3	941.0
39°	941.2	919.2	910.9	908.0	914.3	925.0
39.5°	925.7	902.9	894.7	892.3	897.6	908.5
40°	909.5	886.5	878.0	875.6	880.6	891.5
40.5°	892.3	869.3	860.8	858.4	863.0	873.1
41°	874.6	851.6	843.3	840.7	845.8	855.4
41.5°	856.9	833.9	825.6	823.5	827.8	838.0
42°	839.9	817.2	808.7	806.0	810.9	820.3
42.5°	822.5	799.7	791.0	787.6	792.2	800.9
43°	804.8	781.6	773.1	770.4	774.5	783.5
43.5°	786.6	763.9	755.6	753.0	757.6	767.3



TEST NUMBER: P776030

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	739.9	719.0	711.3	709.1	714.0	724.1
45.5°	726.1	705.2	697.5	695.8	700.6	710.6
46°	713.0	692.4	684.9	683.0	688.0	698.0
46.5°	699.9	680.0	672.3	670.6	675.4	685.4
47°	688.0	667.9	659.9	658.2	663.1	673.0
47.5°	675.4	655.1	647.8	645.9	651.0	660.7
48°	663.3	643.5	635.7	633.8	638.6	648.1
48.5°	651.2	630.6	623.6	621.2	625.8	634.0
49°	637.9	617.8	610.3	607.6	611.5	618.8
49.5°	623.1	602.8	596.5	593.6	596.2	603.2
50°	607.8	588.2	581.4	578.5	580.0	585.6
50.5°	591.4	571.3	565.5	561.6	562.1	566.9
51°	573.4	553.8	547.5	543.4	543.6	547.8
51.5°	555.5	534.9	528.9	523.8	524.8	528.4
52°	537.3	516.0	509.0	503.7	504.2	508.5
52.5°	518.2	495.9	488.7	483.3	483.6	488.4
53°	498.8	476.1	468.1	462.2	462.7	467.8
53.5°	478.7	455.7	447.0	441.2	441.7	447.2
54°	458.9	435.6	426.1	420.1	420.6	426.4
54.5°	438.7	415.7	405.6	399.0	399.5	405.8
55°	419.1	395.6	384.5	377.7	378.7	385.2
55.5°	398.8	375.0	364.1	356.1	358.3	364.4
56°	378.2	355.2	343.5	335.3	338.0	344.0
56.5°	358.3	335.5	323.7	314.9	318.1	323.9
57°	337.7	316.2	303.3	294.6	298.0	304.0
57.5°	318.1	297.0	283.9	275.0	278.4	284.2
58°	298.5	278.1	265.0	256.1	259.2	264.8
58.5°	278.6	259.2	246.6	237.2	241.1	245.9
59°	259.2	241.1	228.7	219.3	222.2	227.2
59.5°	241.1	223.4	210.8	201.8	205.0	209.8
60°	223.1	205.9	193.6	184.8	188.0	191.9
60.5°	205.2	188.2	177.1	168.9	171.3	174.7
61°	187.3	171.8	160.9	153.6	154.8	158.2
61.5°	169.3	155.5	145.8	139.3	140.3	142.2
62°	152.6	139.5	131.1	124.8	125.5	126.5
62.5°	136.6	124.3	117.0	111.7	111.2	111.9
63°	121.1	109.7	103.7	98.8	97.6	97.6
63.5°	106.4	95.9	91.3	87.2	85.5	83.1
64°	92.3	82.6	80.9	77.5	75.6	71.0
64.5°	79.7	71.7	70.7	67.6	65.7	58.9
65°	67.4	60.8	60.6	57.9	55.5	46.8
65.5°	56.2	50.1	50.1	48.2	45.5	34.6
66°	46.0	39.2	40.0	38.5	35.4	25.4



TEST NUMBER: P776030

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	25.2	17.7	18.7	18.4	15.3	8.0
68°	19.4	12.6	13.6	13.1	10.7	6.3
68.5°	13.6	8.7	9.0	8.7	8.7	4.6
69°	7.8	6.8	7.0	6.8	6.8	2.9
69.5°	4.6	4.8	5.1	4.8	4.8	1.2
70°	2.4	2.9	2.9	2.9	2.9	1.0
70.5°	1.2	1.0	1.0	1.0	1.0	1.0
71°	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	1.0	0.7	0.7	0.7	0.7	0.7
72°	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.7
73°	0.7	0.7	0.7	0.7	0.7	0.7
73.5°	0.7	0.7	0.7	0.7	0.7	0.7
74°	0.7	0.7	0.7	0.7	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5
78°	0.5	0.5	0.5	0.5	0.5	0.5
78.5°	0.2	0.5	0.5	0.5	0.5	0.2
79°	0.2	0.2	0.5	0.5	0.5	0.2
79.5°	0.2	0.2	0.5	0.5	0.2	0.2
80°	0.2	0.2	0.5	0.5	0.2	0.2
80.5°	0.2	0.2	0.5	0.5	0.2	0.2
81°	0.2	0.2	0.5	0.5	0.2	0.2
81.5°	0.2	0.2	0.5	0.5	0.2	0.2
82°	0.2	0.2	0.5	0.5	0.2	0.2
82.5°	0.2	0.2	0.5	0.5	0.2	0.2
83°	0.2	0.2	0.5	0.5	0.2	0.2
83.5°	0.2	0.2	0.5	0.5	0.2	0.2
84°	0.2	0.2	0.5	0.5	0.2	0.2
84.5°	0.2	0.2	0.5	0.5	0.2	0.2
85°	0.2	0.2	0.5	0.5	0.5	0.2
85.5°	0.2	0.2	0.5	0.5	0.5	0.2
86°	0.2	0.2	0.5	0.5	0.5	0.2
86.5°	0.2	0.2	0.5	0.7	0.5	0.2
87°	0.2	0.2	0.7	0.7	0.7	0.2
87.5°	0.2	0.5	0.7	1.0	0.7	0.2
88°	0.2	0.5	1.0	1.2	1.0	0.2
88.5°	0.2	0.5	1.2	1.5	1.2	0.2



TEST NUMBER: P776030  
CATALOG NUMBER: HCDJBL1525CSD-HCD61TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	1.0	1.7	1.2	1.7	0.2



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Scaled Data Report





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

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1350.2	1361.5	1378.7	1396.2	1418.0	1426.0	1425.0	1417.5	1405.6	1392.3	1377.3
22°	1340.0	1351.6	1368.8	1386.7	1408.3	1416.5	1415.6	1407.8	1396.2	1382.6	1367.4



44°	752.0	767.5	782.3	795.8	815.2	821.3	822.7	819.3	812.6	800.7	786.9
44.5°	737.7	753.0	767.7	780.8	799.7	805.5	807.0	804.1	797.1	785.2	770.7



66.5°	18.4	25.2	28.8	32.7	41.4	44.3	47.0	45.8	36.8	43.9	41.4
67°	12.6	18.9	22.0	24.7	34.4	36.8	39.2	38.3	28.6	36.8	34.9



89°	0.2	0.5	0.7	0.5	0.0	0.0	0.0	0.2	0.0	0.2	0.2
89.5°	0.2	0.7	0.7	0.5	0.2	0.0	0.0	0.2	0.0	0.2	0.2



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21.5°	1364.2	1352.3	1349.9	1348.0	1347.0	1350.2
22°	1353.8	1342.2	1339.5	1337.1	1336.3	1340.0



44°	769.9	748.1	740.4	737.5	742.5	752.0
44.5°	754.4	733.3	725.3	723.2	728.0	737.7



66.5°	37.1	30.8	32.2	31.0	27.9	18.4
67°	31.0	23.5	25.0	24.2	21.1	12.6



89°	0.2	0.7	1.2	1.7	1.2	0.2
89.5°	0.2	0.7	1.5	1.7	1.5	0.2

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Scaled Data Report



(END OF REPORT)