

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: P776027

Luminaire Tested: HCDJBS1525CSD-HCD61TRC-2500lm-3500K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776027  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B035-HCD61TRC)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD61TRC-2500lm-3500K  
Description: 6 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

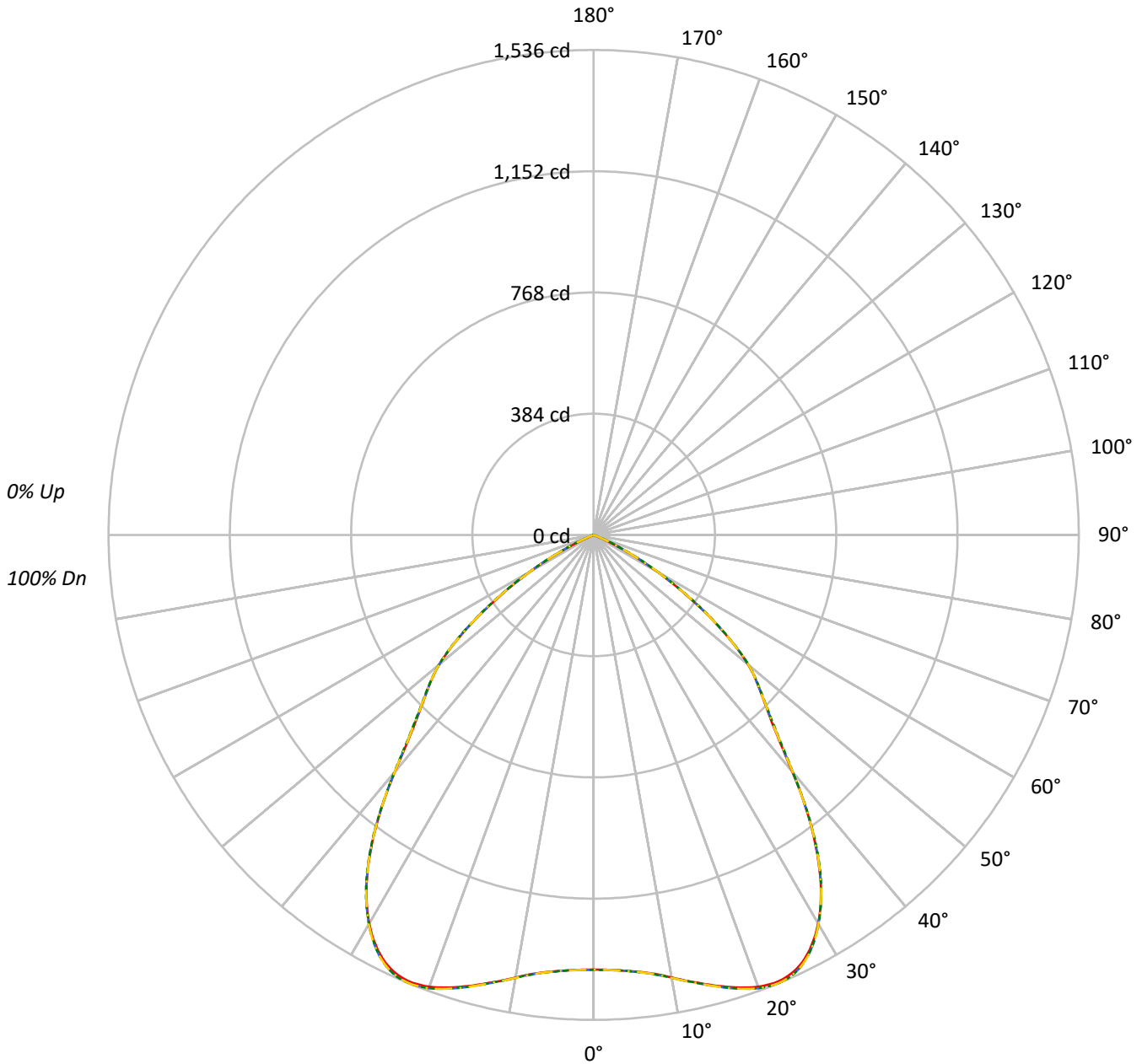
Lumens per Lamp: N/A  
Luminaire Lumens: 3095.0 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.3  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P776027  
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P776027

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRC-2500lm-3500K

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

RF	20									20									20									20									
RC	80									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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80																			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50																			
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45																			
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34																			

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

	0°	90°	180°	270°
0°	75504	75504	75504	75504
5°	76332	76387	76332	76387
10°	79251	79279	79251	79279
15°	83848	83934	83848	83934
20°	88820	89071	88820	89071
25°	91771	92152	91771	92152
30°	89976	90090	89976	90090
35°	82603	82878	82603	82878
40°	70031	70317	70031	70317
45°	59983	60293	59983	60293
50°	54412	54540	54412	54540
55°	41901	42331	41901	42331
60°	25239	26040	25239	26040
65°	7900	10079	7900	10079
70°	48	401	48	401
75°	0	64	0	64
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 60293 cd/sqm



TEST NUMBER: P776027

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	4.3
10°-20°	420.6	13.6
20°-30°	695.4	22.5
30°-40°	763.2	24.7
40°-50°	606.1	19.6
50°-60°	390.4	12.6
60°-70°	85.5	2.8
70°-80°	0.3	0.0
80°-90°	0.0	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°	1249.5	40.4
0°-40°	2012.8	65.0
0°-60°	3009.2	97.2
0°-90°	3095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3095.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1377	1377	1377	1377	1377	
5°	1387	1388	1387	1388	1387	134
15°	1477	1479	1477	1479	1477	420
25°	1517	1524	1517	1524	1517	694
35°	1234	1238	1234	1238	1234	762
45°	774	778	774	778	774	605
55°	438	443	438	443	438	388
65°	61	78	61	78	61	78
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776027

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3
0.5°	1376.8	1377.3	1377.5	1377.8	1377.8	1377.8	1377.5	1377.3	1376.8	1377.3	1377.5
1°	1377.3	1377.5	1377.8	1378.0	1377.8	1378.0	1377.8	1377.5	1377.3	1377.5	1377.8
1.5°	1377.8	1378.0	1378.3	1378.5	1378.3	1378.5	1378.3	1378.0	1377.8	1378.0	1378.3
2°	1378.5	1378.8	1379.0	1379.0	1378.8	1379.0	1379.0	1378.8	1378.5	1378.8	1379.0
2.5°	1379.3	1379.5	1380.1	1380.1	1379.8	1380.1	1380.1	1379.5	1379.3	1379.5	1380.1
3°	1380.6	1380.8	1381.1	1381.1	1380.8	1381.1	1381.1	1380.8	1380.6	1380.8	1381.1
3.5°	1381.8	1382.1	1382.6	1382.6	1382.3	1382.6	1382.6	1382.1	1381.8	1382.1	1382.6
4°	1383.3	1383.6	1384.1	1384.3	1384.1	1384.3	1384.1	1383.6	1383.3	1383.6	1384.1
4.5°	1385.1	1385.3	1385.8	1386.1	1385.8	1386.1	1385.8	1385.3	1385.1	1385.3	1385.8
5°	1387.1	1387.3	1387.8	1388.1	1388.1	1388.1	1387.8	1387.3	1387.1	1387.3	1387.8
5.5°	1389.1	1389.6	1390.1	1390.6	1390.3	1390.6	1390.1	1389.6	1389.1	1389.6	1390.1
6°	1391.6	1391.8	1392.6	1393.1	1392.8	1393.1	1392.6	1391.8	1391.6	1391.8	1392.6
6.5°	1394.3	1394.6	1395.3	1395.6	1395.3	1395.6	1395.3	1394.6	1394.3	1394.6	1395.3
7°	1397.4	1397.6	1398.4	1398.6	1398.4	1398.6	1398.4	1397.6	1397.4	1397.6	1398.4
7.5°	1400.9	1401.1	1401.9	1401.9	1401.6	1401.9	1401.9	1401.1	1400.9	1401.1	1401.9
8°	1404.4	1404.9	1405.6	1405.9	1405.6	1405.9	1405.6	1404.9	1404.4	1404.9	1405.6
8.5°	1408.6	1409.1	1410.1	1410.1	1409.9	1410.1	1410.1	1409.1	1408.6	1409.1	1410.1
9°	1413.4	1413.9	1414.7	1414.9	1414.4	1414.9	1414.7	1413.9	1413.4	1413.9	1414.7
9.5°	1418.4	1418.9	1419.7	1419.9	1419.2	1419.9	1419.7	1418.9	1418.4	1418.9	1419.7
10°	1423.7	1424.2	1424.9	1424.9	1424.2	1424.9	1424.9	1424.2	1423.7	1424.2	1424.9
10.5°	1429.0	1429.5	1430.0	1430.0	1429.5	1430.0	1430.0	1429.5	1429.0	1429.5	1430.0
11°	1434.2	1435.0	1435.5	1435.2	1434.7	1435.2	1435.5	1435.0	1434.2	1435.0	1435.5
11.5°	1439.7	1440.2	1440.7	1440.5	1440.0	1440.5	1440.7	1440.2	1439.7	1440.2	1440.7
12°	1445.0	1445.5	1446.0	1446.0	1445.5	1446.0	1446.0	1445.5	1445.0	1445.5	1446.0
12.5°	1450.3	1451.0	1451.5	1451.5	1451.0	1451.5	1451.5	1451.0	1450.3	1451.0	1451.5
13°	1455.5	1456.5	1457.0	1457.0	1456.5	1457.0	1457.0	1456.5	1455.5	1456.5	1457.0
13.5°	1461.1	1462.1	1462.8	1462.6	1462.1	1462.6	1462.8	1462.1	1461.1	1462.1	1462.8
14°	1466.3	1467.6	1468.6	1468.6	1467.6	1468.6	1468.6	1467.6	1466.3	1467.6	1468.6
14.5°	1471.8	1473.1	1474.1	1474.3	1473.3	1474.3	1474.1	1473.1	1471.8	1473.1	1474.1
15°	1477.4	1478.6	1479.9	1480.1	1478.9	1480.1	1479.9	1478.6	1477.4	1478.6	1479.9
15.5°	1482.6	1484.1	1485.6	1485.6	1484.4	1485.6	1485.6	1484.1	1482.6	1484.1	1485.6
16°	1487.9	1489.6	1491.1	1491.1	1489.9	1491.1	1491.1	1489.6	1487.9	1489.6	1491.1
16.5°	1492.9	1494.7	1496.4	1496.4	1495.2	1496.4	1496.4	1494.7	1492.9	1494.7	1496.4
17°	1498.2	1499.9	1501.7	1501.7	1500.2	1501.7	1501.7	1499.9	1498.2	1499.9	1501.7
17.5°	1502.9	1504.9	1506.7	1506.7	1505.2	1506.7	1506.7	1504.9	1502.9	1504.9	1506.7
18°	1507.4	1509.7	1511.5	1511.5	1510.2	1511.5	1511.5	1509.7	1507.4	1509.7	1511.5
18.5°	1511.7	1514.2	1516.0	1516.0	1514.7	1516.0	1516.0	1514.2	1511.7	1514.2	1516.0
19°	1515.7	1518.2	1520.2	1520.0	1519.0	1520.0	1520.2	1518.2	1515.7	1518.2	1520.2
19.5°	1519.2	1521.7	1524.3	1523.7	1523.0	1523.7	1524.3	1521.7	1519.2	1521.7	1524.3
20°	1522.5	1525.0	1527.8	1527.0	1526.8	1527.0	1527.8	1525.0	1522.5	1525.0	1527.8
20.5°	1525.3	1527.8	1530.5	1529.8	1529.8	1529.8	1530.5	1527.8	1525.3	1527.8	1530.5
21°	1527.3	1529.8	1532.8	1531.8	1532.3	1531.8	1532.8	1529.8	1527.3	1529.8	1532.8



TEST NUMBER: P776027

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1529.8	1532.0	1535.5	1534.3	1535.8	1534.3	1535.5	1532.0	1529.8	1532.0	1535.5
23°	1529.3	1531.3	1535.0	1533.5	1535.3	1533.5	1535.0	1531.3	1529.3	1531.3	1535.0
23.5°	1527.8	1529.8	1533.5	1531.8	1534.0	1531.8	1533.5	1529.8	1527.8	1529.8	1533.5
24°	1525.3	1527.3	1531.0	1529.5	1531.5	1529.5	1531.0	1527.3	1525.3	1527.3	1531.0
24.5°	1521.7	1523.7	1527.5	1526.3	1528.0	1526.3	1527.5	1523.7	1521.7	1523.7	1527.5
25°	1517.2	1519.5	1523.0	1522.0	1523.5	1522.0	1523.0	1519.5	1517.2	1519.5	1523.0
25.5°	1512.2	1514.2	1517.7	1517.0	1517.7	1517.0	1517.7	1514.2	1512.2	1514.2	1517.7
26°	1505.9	1508.0	1511.2	1511.0	1511.2	1511.0	1511.2	1508.0	1505.9	1508.0	1511.2
26.5°	1498.2	1500.4	1503.7	1503.9	1503.4	1503.9	1503.7	1500.4	1498.2	1500.4	1503.7
27°	1490.1	1492.4	1495.2	1495.9	1494.7	1495.9	1495.2	1492.4	1490.1	1492.4	1495.2
27.5°	1480.9	1483.1	1485.6	1486.9	1484.9	1486.9	1485.6	1483.1	1480.9	1483.1	1485.6
28°	1470.6	1472.8	1474.8	1476.9	1474.1	1476.9	1474.8	1472.8	1470.6	1472.8	1474.8
28.5°	1459.8	1461.6	1463.6	1466.1	1462.6	1466.1	1463.6	1461.6	1459.8	1461.6	1463.6
29°	1447.8	1449.5	1451.0	1454.0	1450.3	1454.0	1451.0	1449.5	1447.8	1449.5	1451.0
29.5°	1435.0	1436.5	1438.2	1440.7	1437.2	1440.7	1438.2	1436.5	1435.0	1436.5	1438.2
30°	1421.4	1422.4	1423.7	1426.7	1423.2	1426.7	1423.7	1422.4	1421.4	1422.4	1423.7
30.5°	1406.9	1407.4	1408.9	1411.9	1408.4	1411.9	1408.9	1407.4	1406.9	1407.4	1408.9
31°	1391.1	1391.6	1393.1	1395.9	1392.8	1395.9	1393.1	1391.6	1391.1	1391.6	1393.1
31.5°	1374.8	1374.8	1376.5	1378.8	1376.5	1378.8	1376.5	1374.8	1374.8	1374.8	1376.5
32°	1357.5	1357.2	1358.7	1361.0	1359.5	1361.0	1358.7	1357.2	1357.5	1357.2	1358.7
32.5°	1339.2	1338.7	1340.7	1342.2	1341.7	1342.2	1340.7	1338.7	1339.2	1338.7	1340.7
33°	1320.1	1319.6	1321.4	1322.6	1322.9	1322.6	1321.4	1319.6	1320.1	1319.6	1321.4
33.5°	1300.1	1299.0	1301.3	1302.1	1302.8	1302.1	1301.3	1299.0	1300.1	1299.0	1301.3
34°	1279.2	1278.2	1280.2	1280.5	1282.5	1280.5	1280.2	1278.2	1279.2	1278.2	1280.2
34.5°	1256.9	1256.9	1258.2	1258.4	1260.7	1258.4	1258.2	1256.9	1256.9	1256.9	1258.2
35°	1234.3	1234.1	1235.4	1235.9	1238.4	1235.9	1235.4	1234.1	1234.3	1234.1	1235.4
35.5°	1211.3	1211.3	1212.3	1212.8	1215.3	1212.8	1212.3	1211.3	1211.3	1211.3	1212.3
36°	1187.7	1187.7	1188.5	1189.2	1191.0	1189.2	1188.5	1187.7	1187.7	1187.7	1188.5
36.5°	1163.4	1163.6	1164.1	1164.6	1166.6	1164.6	1164.1	1163.6	1163.4	1163.6	1164.1
37°	1138.0	1138.5	1138.8	1139.6	1141.1	1139.6	1138.8	1138.5	1138.0	1138.5	1138.8
37.5°	1112.7	1113.0	1113.5	1114.2	1115.0	1114.2	1113.5	1113.0	1112.7	1113.0	1113.5
38°	1086.9	1086.9	1087.6	1088.1	1088.9	1088.1	1087.6	1086.9	1086.9	1086.9	1087.6
38.5°	1060.6	1060.6	1061.3	1061.8	1062.3	1061.8	1061.3	1060.6	1060.6	1060.6	1061.3
39°	1033.7	1033.7	1034.7	1035.5	1035.7	1035.5	1034.7	1033.7	1033.7	1033.7	1034.7
39.5°	1006.1	1006.4	1007.4	1008.9	1009.1	1008.9	1007.4	1006.4	1006.1	1006.4	1007.4
40°	978.6	978.8	980.6	981.8	982.6	981.8	980.6	978.8	978.6	978.8	980.6
40.5°	951.5	952.0	954.2	956.5	957.0	956.5	954.2	952.0	951.5	952.0	954.2
41°	925.9	926.6	928.9	931.4	932.4	931.4	928.9	926.6	925.9	926.6	928.9
41.5°	901.8	902.8	904.8	907.3	908.1	907.3	904.8	902.8	901.8	902.8	904.8
42°	879.7	880.2	882.2	884.0	885.5	884.0	882.2	880.2	879.7	880.2	882.2
42.5°	859.2	859.4	861.9	863.7	864.7	863.7	861.9	859.4	859.2	859.4	861.9
43°	839.1	839.4	842.1	844.1	846.4	844.1	842.1	839.4	839.1	839.4	842.1
43.5°	820.6	821.3	823.3	825.3	827.1	825.3	823.3	821.3	820.6	821.3	823.3



TEST NUMBER: P776027

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	773.7	773.7	775.4	776.2	777.7	776.2	775.4	773.7	773.7	773.7	775.4
45.5°	759.4	759.4	761.1	761.9	762.6	761.9	761.1	759.4	759.4	759.4	761.1
46°	745.6	745.8	747.1	748.1	748.6	748.1	747.1	745.8	745.6	745.8	747.1
46.5°	732.3	732.3	733.5	734.3	735.3	734.3	733.5	732.3	732.3	732.3	733.5
47°	719.2	719.2	720.2	721.2	722.0	721.2	720.2	719.2	719.2	719.2	720.2
47.5°	706.2	706.2	707.5	708.2	708.5	708.2	707.5	706.2	706.2	706.2	707.5
48°	693.7	693.4	694.7	695.4	695.9	695.4	694.7	693.4	693.7	693.4	694.7
48.5°	680.6	680.6	681.6	682.6	682.9	682.6	681.6	680.6	680.6	680.6	681.6
49°	667.1	667.3	668.3	669.1	669.6	669.1	668.3	667.3	667.1	667.3	668.3
49.5°	653.3	653.0	654.3	655.0	655.3	655.0	654.3	653.0	653.3	653.0	654.3
50°	638.0	638.0	638.7	639.5	639.5	639.5	638.7	638.0	638.0	638.0	638.7
50.5°	621.2	621.2	621.7	622.7	622.7	622.7	621.7	621.2	621.2	621.2	621.7
51°	603.4	603.1	603.9	604.6	605.4	604.6	603.9	603.1	603.4	603.1	603.9
51.5°	584.6	584.3	585.3	586.3	586.6	586.3	585.3	584.3	584.6	584.3	585.3
52°	565.0	565.3	566.0	566.8	567.3	566.8	566.0	565.3	565.0	565.3	566.0
52.5°	544.9	544.7	546.0	547.0	547.2	547.0	546.0	544.7	544.9	544.7	546.0
53°	523.9	524.1	525.4	526.6	526.4	526.6	525.4	524.1	523.9	524.1	525.4
53.5°	502.8	503.1	504.6	505.6	506.1	505.6	504.6	503.1	502.8	503.1	504.6
54°	481.3	481.8	483.3	484.3	484.5	484.3	483.3	481.8	481.3	481.8	483.3
54.5°	459.9	459.9	461.9	463.2	463.7	463.2	461.9	459.9	459.9	459.9	461.9
55°	438.4	438.6	440.9	441.9	442.9	441.9	440.9	438.6	438.4	438.6	440.9
55.5°	416.3	416.8	419.1	420.6	421.6	420.6	419.1	416.8	416.3	416.8	419.1
56°	394.5	395.2	397.7	399.0	400.2	399.0	397.7	395.2	394.5	395.2	397.7
56.5°	372.9	373.7	376.2	377.7	378.9	377.7	376.2	373.7	372.9	373.7	376.2
57°	351.3	352.6	354.9	356.6	357.9	356.6	354.9	352.6	351.3	352.6	354.9
57.5°	330.3	331.5	333.8	335.8	337.1	335.8	333.8	331.5	330.3	331.5	333.8
58°	309.5	310.5	313.0	315.5	316.5	315.5	313.0	310.5	309.5	310.5	313.0
58.5°	288.6	290.2	292.7	295.7	296.4	295.7	292.7	290.2	288.6	290.2	292.7
59°	268.6	270.3	272.3	275.6	276.4	275.6	272.3	270.3	268.6	270.3	272.3
59.5°	249.3	250.5	252.8	256.0	256.8	256.0	252.8	250.5	249.3	250.5	252.8
60°	230.2	231.2	233.5	236.5	237.5	236.5	233.5	231.2	230.2	231.2	233.5
60.5°	211.2	212.2	214.4	217.4	218.9	217.4	214.4	212.2	211.2	212.2	214.4
61°	192.6	193.6	196.4	199.1	200.6	199.1	196.4	193.6	192.6	193.6	196.4
61.5°	173.8	175.8	178.6	181.3	183.6	181.3	178.6	175.8	173.8	175.8	178.6
62°	156.0	158.5	161.3	164.3	166.5	164.3	161.3	158.5	156.0	158.5	161.3
62.5°	138.2	141.4	144.5	147.5	150.0	147.5	144.5	141.4	138.2	141.4	144.5
63°	120.9	125.4	128.1	131.2	133.9	131.2	128.1	125.4	120.9	125.4	128.1
63.5°	104.3	110.1	113.1	115.9	118.9	115.9	113.1	110.1	104.3	110.1	113.1
64°	88.3	95.8	99.3	101.8	104.8	101.8	99.3	95.8	88.3	95.8	99.3
64.5°	74.0	82.8	86.0	88.3	91.3	88.3	86.0	82.8	74.0	82.8	86.0
65°	60.9	70.2	73.5	75.5	77.7	75.5	73.5	70.2	60.9	70.2	73.5
65.5°	48.7	59.2	61.9	62.9	65.0	62.9	61.9	59.2	48.7	59.2	61.9
66°	38.1	49.2	51.2	52.7	53.7	52.7	51.2	49.2	38.1	49.2	51.2





TEST NUMBER: P776027

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	11.8	22.8	24.6	26.1	27.6	26.1	24.6	22.8	11.8	22.8	24.6
68°	7.0	16.1	17.6	19.6	22.6	19.6	17.6	16.1	7.0	16.1	17.6
68.5°	4.3	10.5	12.5	13.8	17.6	13.8	12.5	10.5	4.3	10.5	12.5
69°	2.5	6.3	7.8	8.8	12.5	8.8	7.8	6.3	2.5	6.3	7.8
69.5°	1.5	4.0	4.5	4.5	7.5	4.5	4.5	4.0	1.5	4.0	4.5
70°	0.3	2.0	2.5	2.5	2.5	2.5	2.5	2.0	0.3	2.0	2.5
70.5°	0.3	0.8	1.5	1.5	1.0	1.5	1.5	0.8	0.3	0.8	1.5
71°	0.3	0.3	0.8	0.8	0.3	0.8	0.8	0.3	0.3	0.3	0.8
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
75.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776027

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-3500K

**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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776027

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3
0.5°	1377.8	1377.5	1377.8	1377.5	1377.3	1376.8
1°	1378.0	1377.8	1378.0	1377.8	1377.5	1377.3
1.5°	1378.5	1378.3	1378.5	1378.3	1378.0	1377.8
2°	1379.0	1378.8	1379.0	1379.0	1378.8	1378.5
2.5°	1380.1	1379.8	1380.1	1380.1	1379.5	1379.3
3°	1381.1	1380.8	1381.1	1381.1	1380.8	1380.6
3.5°	1382.6	1382.3	1382.6	1382.6	1382.1	1381.8
4°	1384.3	1384.1	1384.3	1384.1	1383.6	1383.3
4.5°	1386.1	1385.8	1386.1	1385.8	1385.3	1385.1
5°	1388.1	1388.1	1388.1	1387.8	1387.3	1387.1
5.5°	1390.6	1390.3	1390.6	1390.1	1389.6	1389.1
6°	1393.1	1392.8	1393.1	1392.6	1391.8	1391.6
6.5°	1395.6	1395.3	1395.6	1395.3	1394.6	1394.3
7°	1398.6	1398.4	1398.6	1398.4	1397.6	1397.4
7.5°	1401.9	1401.6	1401.9	1401.9	1401.1	1400.9
8°	1405.9	1405.6	1405.9	1405.6	1404.9	1404.4
8.5°	1410.1	1409.9	1410.1	1410.1	1409.1	1408.6
9°	1414.9	1414.4	1414.9	1414.7	1413.9	1413.4
9.5°	1419.9	1419.2	1419.9	1419.7	1418.9	1418.4
10°	1424.9	1424.2	1424.9	1424.9	1424.2	1423.7
10.5°	1430.0	1429.5	1430.0	1430.0	1429.5	1429.0
11°	1435.2	1434.7	1435.2	1435.5	1435.0	1434.2
11.5°	1440.5	1440.0	1440.5	1440.7	1440.2	1439.7
12°	1446.0	1445.5	1446.0	1446.0	1445.5	1445.0
12.5°	1451.5	1451.0	1451.5	1451.5	1451.0	1450.3
13°	1457.0	1456.5	1457.0	1457.0	1456.5	1455.5
13.5°	1462.6	1462.1	1462.6	1462.8	1462.1	1461.1
14°	1468.6	1467.6	1468.6	1468.6	1467.6	1466.3
14.5°	1474.3	1473.3	1474.3	1474.1	1473.1	1471.8
15°	1480.1	1478.9	1480.1	1479.9	1478.6	1477.4
15.5°	1485.6	1484.4	1485.6	1485.6	1484.1	1482.6
16°	1491.1	1489.9	1491.1	1491.1	1489.6	1487.9
16.5°	1496.4	1495.2	1496.4	1496.4	1494.7	1492.9
17°	1501.7	1500.2	1501.7	1501.7	1499.9	1498.2
17.5°	1506.7	1505.2	1506.7	1506.7	1504.9	1502.9
18°	1511.5	1510.2	1511.5	1511.5	1509.7	1507.4
18.5°	1516.0	1514.7	1516.0	1516.0	1514.2	1511.7
19°	1520.0	1519.0	1520.0	1520.2	1518.2	1515.7
19.5°	1523.7	1523.0	1523.7	1524.3	1521.7	1519.2
20°	1527.0	1526.8	1527.0	1527.8	1525.0	1522.5
20.5°	1529.8	1529.8	1529.8	1530.5	1527.8	1525.3
21°	1531.8	1532.3	1531.8	1532.8	1529.8	1527.3

TEST NUMBER: P776027

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1534.3	1535.8	1534.3	1535.5	1532.0	1529.8
23°	1533.5	1535.3	1533.5	1535.0	1531.3	1529.3
23.5°	1531.8	1534.0	1531.8	1533.5	1529.8	1527.8
24°	1529.5	1531.5	1529.5	1531.0	1527.3	1525.3
24.5°	1526.3	1528.0	1526.3	1527.5	1523.7	1521.7
25°	1522.0	1523.5	1522.0	1523.0	1519.5	1517.2
25.5°	1517.0	1517.7	1517.0	1517.7	1514.2	1512.2
26°	1511.0	1511.2	1511.0	1511.2	1508.0	1505.9
26.5°	1503.9	1503.4	1503.9	1503.7	1500.4	1498.2
27°	1495.9	1494.7	1495.9	1495.2	1492.4	1490.1
27.5°	1486.9	1484.9	1486.9	1485.6	1483.1	1480.9
28°	1476.9	1474.1	1476.9	1474.8	1472.8	1470.6
28.5°	1466.1	1462.6	1466.1	1463.6	1461.6	1459.8
29°	1454.0	1450.3	1454.0	1451.0	1449.5	1447.8
29.5°	1440.7	1437.2	1440.7	1438.2	1436.5	1435.0
30°	1426.7	1423.2	1426.7	1423.7	1422.4	1421.4
30.5°	1411.9	1408.4	1411.9	1408.9	1407.4	1406.9
31°	1395.9	1392.8	1395.9	1393.1	1391.6	1391.1
31.5°	1378.8	1376.5	1378.8	1376.5	1374.8	1374.8
32°	1361.0	1359.5	1361.0	1358.7	1357.2	1357.5
32.5°	1342.2	1341.7	1342.2	1340.7	1338.7	1339.2
33°	1322.6	1322.9	1322.6	1321.4	1319.6	1320.1
33.5°	1302.1	1302.8	1302.1	1301.3	1299.0	1300.1
34°	1280.5	1282.5	1280.5	1280.2	1278.2	1279.2
34.5°	1258.4	1260.7	1258.4	1258.2	1256.9	1256.9
35°	1235.9	1238.4	1235.9	1235.4	1234.1	1234.3
35.5°	1212.8	1215.3	1212.8	1212.3	1211.3	1211.3
36°	1189.2	1191.0	1189.2	1188.5	1187.7	1187.7
36.5°	1164.6	1166.6	1164.6	1164.1	1163.6	1163.4
37°	1139.6	1141.1	1139.6	1138.8	1138.5	1138.0
37.5°	1114.2	1115.0	1114.2	1113.5	1113.0	1112.7
38°	1088.1	1088.9	1088.1	1087.6	1086.9	1086.9
38.5°	1061.8	1062.3	1061.8	1061.3	1060.6	1060.6
39°	1035.5	1035.7	1035.5	1034.7	1033.7	1033.7
39.5°	1008.9	1009.1	1008.9	1007.4	1006.4	1006.1
40°	981.8	982.6	981.8	980.6	978.8	978.6
40.5°	956.5	957.0	956.5	954.2	952.0	951.5
41°	931.4	932.4	931.4	928.9	926.6	925.9
41.5°	907.3	908.1	907.3	904.8	902.8	901.8
42°	884.0	885.5	884.0	882.2	880.2	879.7
42.5°	863.7	864.7	863.7	861.9	859.4	859.2
43°	844.1	846.4	844.1	842.1	839.4	839.1
43.5°	825.3	827.1	825.3	823.3	821.3	820.6



TEST NUMBER: P776027

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	776.2	777.7	776.2	775.4	773.7	773.7
45.5°	761.9	762.6	761.9	761.1	759.4	759.4
46°	748.1	748.6	748.1	747.1	745.8	745.6
46.5°	734.3	735.3	734.3	733.5	732.3	732.3
47°	721.2	722.0	721.2	720.2	719.2	719.2
47.5°	708.2	708.5	708.2	707.5	706.2	706.2
48°	695.4	695.9	695.4	694.7	693.4	693.7
48.5°	682.6	682.9	682.6	681.6	680.6	680.6
49°	669.1	669.6	669.1	668.3	667.3	667.1
49.5°	655.0	655.3	655.0	654.3	653.0	653.3
50°	639.5	639.5	639.5	638.7	638.0	638.0
50.5°	622.7	622.7	622.7	621.7	621.2	621.2
51°	604.6	605.4	604.6	603.9	603.1	603.4
51.5°	586.3	586.6	586.3	585.3	584.3	584.6
52°	566.8	567.3	566.8	566.0	565.3	565.0
52.5°	547.0	547.2	547.0	546.0	544.7	544.9
53°	526.6	526.4	526.6	525.4	524.1	523.9
53.5°	505.6	506.1	505.6	504.6	503.1	502.8
54°	484.3	484.5	484.3	483.3	481.8	481.3
54.5°	463.2	463.7	463.2	461.9	459.9	459.9
55°	441.9	442.9	441.9	440.9	438.6	438.4
55.5°	420.6	421.6	420.6	419.1	416.8	416.3
56°	399.0	400.2	399.0	397.7	395.2	394.5
56.5°	377.7	378.9	377.7	376.2	373.7	372.9
57°	356.6	357.9	356.6	354.9	352.6	351.3
57.5°	335.8	337.1	335.8	333.8	331.5	330.3
58°	315.5	316.5	315.5	313.0	310.5	309.5
58.5°	295.7	296.4	295.7	292.7	290.2	288.6
59°	275.6	276.4	275.6	272.3	270.3	268.6
59.5°	256.0	256.8	256.0	252.8	250.5	249.3
60°	236.5	237.5	236.5	233.5	231.2	230.2
60.5°	217.4	218.9	217.4	214.4	212.2	211.2
61°	199.1	200.6	199.1	196.4	193.6	192.6
61.5°	181.3	183.6	181.3	178.6	175.8	173.8
62°	164.3	166.5	164.3	161.3	158.5	156.0
62.5°	147.5	150.0	147.5	144.5	141.4	138.2
63°	131.2	133.9	131.2	128.1	125.4	120.9
63.5°	115.9	118.9	115.9	113.1	110.1	104.3
64°	101.8	104.8	101.8	99.3	95.8	88.3
64.5°	88.3	91.3	88.3	86.0	82.8	74.0
65°	75.5	77.7	75.5	73.5	70.2	60.9
65.5°	62.9	65.0	62.9	61.9	59.2	48.7
66°	52.7	53.7	52.7	51.2	49.2	38.1



TEST NUMBER: P776027

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	26.1	27.6	26.1	24.6	22.8	11.8
68°	19.6	22.6	19.6	17.6	16.1	7.0
68.5°	13.8	17.6	13.8	12.5	10.5	4.3
69°	8.8	12.5	8.8	7.8	6.3	2.5
69.5°	4.5	7.5	4.5	4.5	4.0	1.5
70°	2.5	2.5	2.5	2.5	2.0	0.3
70.5°	1.5	1.0	1.5	1.5	0.8	0.3
71°	0.8	0.3	0.8	0.8	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.0	0.0
75.5°	0.3	0.3	0.3	0.0	0.0	0.0
76°	0.0	0.3	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776027

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-3500K

**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°	1529.0	1531.3	1534.5	1533.3	1534.3	1533.3	1534.5	1531.3	1529.0	1531.3	1534.5
22°	1529.8	1532.0	1535.5	1534.0	1535.3	1534.0	1535.5	1532.0	1529.8	1532.0	1535.5



44°	803.8	804.3	806.3	807.5	809.5	807.5	806.3	804.3	803.8	804.3	806.3
44.5°	788.5	788.7	790.5	791.5	792.7	791.5	790.5	788.7	788.5	788.7	790.5



66.5°	27.8	39.1	41.6	43.1	43.4	43.1	41.6	39.1	27.8	39.1	41.6
67°	19.3	30.8	32.4	33.9	34.1	33.9	32.4	30.8	19.3	30.8	32.4



89°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0



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21.5°	1533.3	1534.3	1533.3	1534.5	1531.3	1529.0
22°	1534.0	1535.3	1534.0	1535.5	1532.0	1529.8



44°	807.5	809.5	807.5	806.3	804.3	803.8
44.5°	791.5	792.7	791.5	790.5	788.7	788.5

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66.5°	43.1	43.4	43.1	41.6	39.1	27.8
67°	33.9	34.1	33.9	32.4	30.8	19.3

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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)