

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: P776028

Luminaire Tested: HCDJBS1525CSD-HCD61TRC-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776028
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-4000K
Description: 6 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

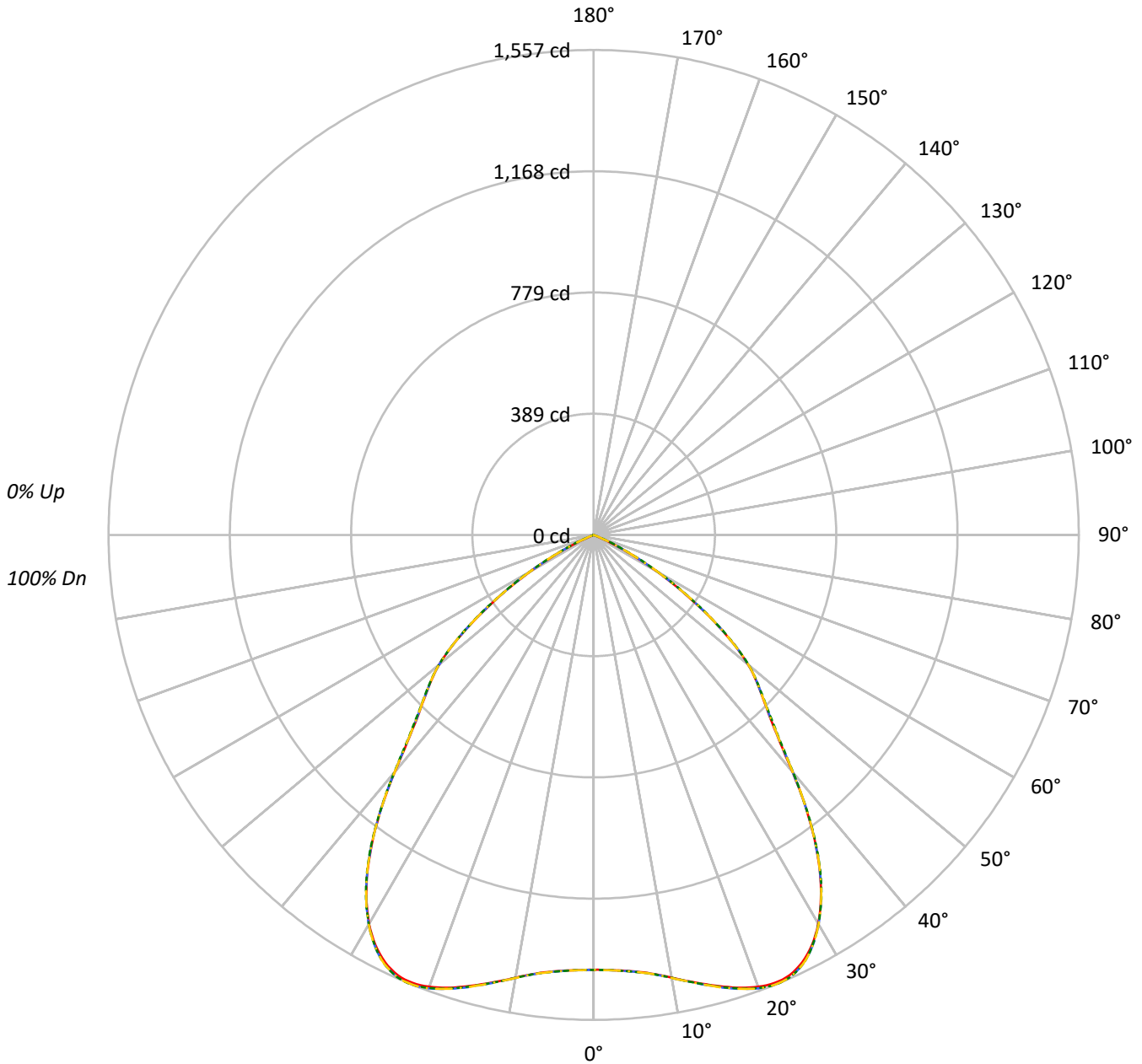
Lumens per Lamp: N/A
Luminaire Lumens: 3138.3 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.3
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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°	76562	76562	76562	76562
5°	77399	77454	77399	77454
10°	80359	80387	80359	80387
15°	85023	85108	85023	85108
20°	90063	90320	90063	90320
25°	93060	93441	93060	93441
30°	91242	91349	91242	91349
35°	83761	84035	83761	84035
40°	71012	71298	71012	71298
45°	60820	61138	60820	61138
50°	55171	55307	55171	55307
55°	42484	42923	42484	42923
60°	25590	26401	25590	26401
65°	8016	10222	8016	10222
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: 61138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	4.3
10°-20°	426.5	13.6
20°-30°	705.1	22.5
30°-40°	773.9	24.7
40°-50°	614.6	19.6
50°-60°	395.8	12.6
60°-70°	86.7	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°	1267.0	40.4
0°-40°	2041.0	65.0
0°-60°	3051.4	97.2
0°-90°	3138.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1397	1397	1397	1397	1397	
5°	1406	1408	1406	1408	1406	135
15°	1498	1500	1498	1500	1498	426
25°	1538	1545	1538	1545	1538	703
35°	1252	1256	1252	1256	1252	773
45°	784	789	784	789	784	613
55°	444	449	444	449	444	394
65°	62	79	62	79	62	79
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
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°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
0.5°	1396.1	1396.6	1396.8	1397.1	1396.8	1397.1	1396.8	1396.6	1396.1	1396.6	1396.8
1°	1396.6	1396.8	1397.1	1397.4	1397.1	1397.4	1397.1	1396.8	1396.6	1396.8	1397.1
1.5°	1397.1	1397.4	1397.6	1397.9	1397.6	1397.9	1397.6	1397.4	1397.1	1397.4	1397.6
2°	1397.9	1398.1	1398.4	1398.4	1398.1	1398.4	1398.4	1398.1	1397.9	1398.1	1398.4
2.5°	1398.6	1398.9	1399.4	1399.4	1399.1	1399.4	1399.4	1398.9	1398.6	1398.9	1399.4
3°	1399.9	1400.2	1400.4	1400.4	1400.2	1400.4	1400.4	1400.2	1399.9	1400.2	1400.4
3.5°	1401.2	1401.4	1401.9	1401.9	1401.7	1401.9	1401.9	1401.4	1401.2	1401.4	1401.9
4°	1402.7	1403.0	1403.5	1403.7	1403.5	1403.7	1403.5	1403.0	1402.7	1403.0	1403.5
4.5°	1404.5	1404.7	1405.2	1405.5	1405.2	1405.5	1405.2	1404.7	1404.5	1404.7	1405.2
5°	1406.5	1406.8	1407.3	1407.5	1407.5	1407.5	1407.3	1406.8	1406.5	1406.8	1407.3
5.5°	1408.5	1409.1	1409.6	1410.1	1409.8	1410.1	1409.6	1409.1	1408.5	1409.1	1409.6
6°	1411.1	1411.3	1412.1	1412.6	1412.4	1412.6	1412.1	1411.3	1411.1	1411.3	1412.1
6.5°	1413.9	1414.1	1414.9	1415.2	1414.9	1415.2	1414.9	1414.1	1413.9	1414.1	1414.9
7°	1416.9	1417.2	1418.0	1418.2	1418.0	1418.2	1418.0	1417.2	1416.9	1417.2	1418.0
7.5°	1420.5	1420.8	1421.5	1421.5	1421.3	1421.5	1421.5	1420.8	1420.5	1420.8	1421.5
8°	1424.1	1424.6	1425.3	1425.6	1425.3	1425.6	1425.3	1424.6	1424.1	1424.6	1425.3
8.5°	1428.4	1428.9	1429.9	1429.9	1429.7	1429.9	1429.9	1428.9	1428.4	1428.9	1429.9
9°	1433.2	1433.7	1434.5	1434.7	1434.2	1434.7	1434.5	1433.7	1433.2	1433.7	1434.5
9.5°	1438.3	1438.8	1439.6	1439.8	1439.1	1439.8	1439.6	1438.8	1438.3	1438.8	1439.6
10°	1443.6	1444.1	1444.9	1444.9	1444.1	1444.9	1444.9	1444.1	1443.6	1444.1	1444.9
10.5°	1449.0	1449.5	1450.0	1450.0	1449.5	1450.0	1450.0	1449.5	1449.0	1449.5	1450.0
11°	1454.3	1455.1	1455.6	1455.3	1454.8	1455.3	1455.6	1455.1	1454.3	1455.1	1455.6
11.5°	1459.9	1460.4	1460.9	1460.7	1460.2	1460.7	1460.9	1460.4	1459.9	1460.4	1460.9
12°	1465.3	1465.8	1466.3	1466.3	1465.8	1466.3	1466.3	1465.8	1465.3	1465.8	1466.3
12.5°	1470.6	1471.4	1471.9	1471.9	1471.4	1471.9	1471.9	1471.4	1470.6	1471.4	1471.9
13°	1475.9	1477.0	1477.5	1477.5	1477.0	1477.5	1477.5	1477.0	1475.9	1477.0	1477.5
13.5°	1481.5	1482.5	1483.3	1483.1	1482.5	1483.1	1483.3	1482.5	1481.5	1482.5	1483.3
14°	1486.9	1488.1	1489.2	1489.2	1488.1	1489.2	1489.2	1488.1	1486.9	1488.1	1489.2
14.5°	1492.5	1493.7	1494.8	1495.0	1494.0	1495.0	1494.8	1493.7	1492.5	1493.7	1494.8
15°	1498.1	1499.3	1500.6	1500.9	1499.6	1500.9	1500.6	1499.3	1498.1	1499.3	1500.6
15.5°	1503.4	1504.9	1506.5	1506.5	1505.2	1506.5	1506.5	1504.9	1503.4	1504.9	1506.5
16°	1508.7	1510.5	1512.0	1512.0	1510.8	1512.0	1512.0	1510.5	1508.7	1510.5	1512.0
16.5°	1513.8	1515.6	1517.4	1517.4	1516.1	1517.4	1517.4	1515.6	1513.8	1515.6	1517.4
17°	1519.2	1520.9	1522.7	1522.7	1521.2	1522.7	1522.7	1520.9	1519.2	1520.9	1522.7
17.5°	1524.0	1526.0	1527.8	1527.8	1526.3	1527.8	1527.8	1526.0	1524.0	1526.0	1527.8
18°	1528.6	1530.9	1532.6	1532.6	1531.4	1532.6	1532.6	1530.9	1528.6	1530.9	1532.6
18.5°	1532.9	1535.4	1537.2	1537.2	1535.9	1537.2	1537.2	1535.4	1532.9	1535.4	1537.2
19°	1537.0	1539.5	1541.5	1541.3	1540.3	1541.3	1541.5	1539.5	1537.0	1539.5	1541.5
19.5°	1540.5	1543.1	1545.6	1545.1	1544.3	1545.1	1545.6	1543.1	1540.5	1543.1	1545.6
20°	1543.8	1546.4	1549.2	1548.4	1548.2	1548.4	1549.2	1546.4	1543.8	1546.4	1549.2
20.5°	1546.6	1549.2	1552.0	1551.2	1551.2	1551.2	1552.0	1549.2	1546.6	1549.2	1552.0
21°	1548.7	1551.2	1554.3	1553.2	1553.7	1553.2	1554.3	1551.2	1548.7	1551.2	1554.3



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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°	1551.2	1553.5	1557.1	1555.8	1557.3	1555.8	1557.1	1553.5	1551.2	1553.5	1557.1
23°	1550.7	1552.7	1556.5	1555.0	1556.8	1555.0	1556.5	1552.7	1550.7	1552.7	1556.5
23.5°	1549.2	1551.2	1555.0	1553.2	1555.5	1553.2	1555.0	1551.2	1549.2	1551.2	1555.0
24°	1546.6	1548.7	1552.5	1551.0	1553.0	1551.0	1552.5	1548.7	1546.6	1548.7	1552.5
24.5°	1543.1	1545.1	1548.9	1547.6	1549.4	1547.6	1548.9	1545.1	1543.1	1545.1	1548.9
25°	1538.5	1540.8	1544.3	1543.3	1544.8	1543.3	1544.3	1540.8	1538.5	1540.8	1544.3
25.5°	1533.4	1535.4	1539.0	1538.2	1539.0	1538.2	1539.0	1535.4	1533.4	1535.4	1539.0
26°	1527.0	1529.1	1532.4	1532.1	1532.4	1532.1	1532.4	1529.1	1527.0	1529.1	1532.4
26.5°	1519.2	1521.5	1524.8	1525.0	1524.5	1525.0	1524.8	1521.5	1519.2	1521.5	1524.8
27°	1511.0	1513.3	1516.1	1516.9	1515.6	1516.9	1516.1	1513.3	1511.0	1513.3	1516.1
27.5°	1501.6	1503.9	1506.5	1507.7	1505.7	1507.7	1506.5	1503.9	1501.6	1503.9	1506.5
28°	1491.2	1493.5	1495.5	1497.5	1494.8	1497.5	1495.5	1493.5	1491.2	1493.5	1495.5
28.5°	1480.3	1482.0	1484.1	1486.6	1483.1	1486.6	1484.1	1482.0	1480.3	1482.0	1484.1
29°	1468.1	1469.8	1471.4	1474.4	1470.6	1474.4	1471.4	1469.8	1468.1	1469.8	1471.4
29.5°	1455.1	1456.6	1458.4	1460.9	1457.4	1460.9	1458.4	1456.6	1455.1	1456.6	1458.4
30°	1441.4	1442.4	1443.6	1446.7	1443.1	1446.7	1443.6	1442.4	1441.4	1442.4	1443.6
30.5°	1426.6	1427.1	1428.6	1431.7	1428.1	1431.7	1428.6	1427.1	1426.6	1427.1	1428.6
31°	1410.6	1411.1	1412.6	1415.4	1412.4	1415.4	1412.6	1411.1	1410.6	1411.1	1412.6
31.5°	1394.1	1394.1	1395.8	1398.1	1395.8	1398.1	1395.8	1394.1	1394.1	1394.1	1395.8
32°	1376.5	1376.3	1377.8	1380.1	1378.5	1380.1	1377.8	1376.3	1376.5	1376.3	1377.8
32.5°	1357.9	1357.4	1359.5	1361.0	1360.5	1361.0	1359.5	1357.4	1357.9	1357.4	1359.5
33°	1338.6	1338.1	1339.9	1341.2	1341.4	1341.2	1339.9	1338.1	1338.6	1338.1	1339.9
33.5°	1318.3	1317.3	1319.5	1320.3	1321.1	1320.3	1319.5	1317.3	1318.3	1317.3	1319.5
34°	1297.2	1296.1	1298.2	1298.4	1300.5	1298.4	1298.2	1296.1	1297.2	1296.1	1298.2
34.5°	1274.5	1274.5	1275.8	1276.1	1278.3	1276.1	1275.8	1274.5	1274.5	1274.5	1275.8
35°	1251.6	1251.4	1252.7	1253.2	1255.7	1253.2	1252.7	1251.4	1251.6	1251.4	1252.7
35.5°	1228.3	1228.3	1229.3	1229.8	1232.3	1229.8	1229.3	1228.3	1228.3	1228.3	1229.3
36°	1204.3	1204.3	1205.1	1205.9	1207.7	1205.9	1205.1	1204.3	1204.3	1204.3	1205.1
36.5°	1179.7	1179.9	1180.4	1181.0	1183.0	1181.0	1180.4	1179.9	1179.7	1179.9	1180.4
37°	1154.0	1154.5	1154.8	1155.5	1157.0	1155.5	1154.8	1154.5	1154.0	1154.5	1154.8
37.5°	1128.3	1128.6	1129.1	1129.8	1130.6	1129.8	1129.1	1128.6	1128.3	1128.6	1129.1
38°	1102.1	1102.1	1102.9	1103.4	1104.2	1103.4	1102.9	1102.1	1102.1	1102.1	1102.9
38.5°	1075.4	1075.4	1076.2	1076.7	1077.2	1076.7	1076.2	1075.4	1075.4	1075.4	1076.2
39°	1048.2	1048.2	1049.2	1050.0	1050.2	1050.0	1049.2	1048.2	1048.2	1048.2	1049.2
39.5°	1020.2	1020.5	1021.5	1023.0	1023.3	1023.0	1021.5	1020.5	1020.2	1020.5	1021.5
40°	992.3	992.5	994.3	995.6	996.3	995.6	994.3	992.5	992.3	992.5	994.3
40.5°	964.8	965.3	967.6	969.9	970.4	969.9	967.6	965.3	964.8	965.3	967.6
41°	938.9	939.6	941.9	944.5	945.5	944.5	941.9	939.6	938.9	939.6	941.9
41.5°	914.4	915.5	917.5	920.0	920.8	920.0	917.5	915.5	914.4	915.5	917.5
42°	892.1	892.6	894.6	896.4	897.9	896.4	894.6	892.6	892.1	892.6	894.6
42.5°	871.2	871.5	874.0	875.8	876.8	875.8	874.0	871.5	871.2	871.5	874.0
43°	850.9	851.1	853.9	856.0	858.2	856.0	853.9	851.1	850.9	851.1	853.9
43.5°	832.1	832.8	834.9	836.9	838.7	836.9	834.9	832.8	832.1	832.8	834.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	784.5	784.5	786.3	787.0	788.6	787.0	786.3	784.5	784.5	784.5	786.3
45.5°	770.0	770.0	771.8	772.6	773.3	772.6	771.8	770.0	770.0	770.0	771.8
46°	756.0	756.3	757.5	758.6	759.1	758.6	757.5	756.3	756.0	756.3	757.5
46.5°	742.5	742.5	743.8	744.6	745.6	744.6	743.8	742.5	742.5	742.5	743.8
47°	729.3	729.3	730.3	731.4	732.1	731.4	730.3	729.3	729.3	729.3	730.3
47.5°	716.1	716.1	717.4	718.1	718.4	718.1	717.4	716.1	716.1	716.1	717.4
48°	703.4	703.1	704.4	705.2	705.7	705.2	704.4	703.1	703.4	703.1	704.4
48.5°	690.2	690.2	691.2	692.2	692.4	692.2	691.2	690.2	690.2	690.2	691.2
49°	676.4	676.7	677.7	678.5	679.0	678.5	677.7	676.7	676.4	676.7	677.7
49.5°	662.4	662.2	663.5	664.2	664.5	664.2	663.5	662.2	662.4	662.2	663.5
50°	646.9	646.9	647.7	648.5	648.5	648.5	647.7	646.9	646.9	646.9	647.7
50.5°	629.9	629.9	630.4	631.4	631.4	631.4	630.4	629.9	629.9	629.9	630.4
51°	611.8	611.6	612.3	613.1	613.9	613.1	612.3	611.6	611.8	611.6	612.3
51.5°	592.8	592.5	593.5	594.5	594.8	594.5	593.5	592.5	592.8	592.5	593.5
52°	572.9	573.2	573.9	574.7	575.2	574.7	573.9	573.2	572.9	573.2	573.9
52.5°	552.6	552.3	553.6	554.6	554.9	554.6	553.6	552.3	552.6	552.3	553.6
53°	531.2	531.5	532.8	534.0	533.8	534.0	532.8	531.5	531.2	531.5	532.8
53.5°	509.9	510.1	511.6	512.7	513.2	512.7	511.6	510.1	509.9	510.1	511.6
54°	488.0	488.5	490.0	491.0	491.3	491.0	490.0	488.5	488.0	488.5	490.0
54.5°	466.4	466.4	468.4	469.7	470.2	469.7	468.4	466.4	466.4	466.4	468.4
55°	444.5	444.8	447.1	448.1	449.1	448.1	447.1	444.8	444.5	444.8	447.1
55.5°	422.1	422.6	424.9	426.5	427.5	426.5	424.9	422.6	422.1	422.6	424.9
56°	400.0	400.8	403.3	404.6	405.9	404.6	403.3	400.8	400.0	400.8	403.3
56.5°	378.1	378.9	381.4	383.0	384.2	383.0	381.4	378.9	378.1	378.9	381.4
57°	356.3	357.5	359.8	361.6	362.9	361.6	359.8	357.5	356.3	357.5	359.8
57.5°	334.9	336.2	338.5	340.5	341.8	340.5	338.5	336.2	334.9	336.2	338.5
58°	313.8	314.8	317.4	319.9	320.9	319.9	317.4	314.8	313.8	314.8	317.4
58.5°	292.7	294.2	296.8	299.8	300.6	299.8	296.8	294.2	292.7	294.2	296.8
59°	272.4	274.1	276.2	279.5	280.2	279.5	276.2	274.1	272.4	274.1	276.2
59.5°	252.8	254.0	256.3	259.6	260.4	259.6	256.3	254.0	252.8	254.0	256.3
60°	233.4	234.5	236.7	239.8	240.8	239.8	236.7	234.5	233.4	234.5	236.7
60.5°	214.1	215.1	217.4	220.5	222.0	220.5	217.4	215.1	214.1	215.1	217.4
61°	195.3	196.3	199.1	201.9	203.4	201.9	199.1	196.3	195.3	196.3	199.1
61.5°	176.2	178.3	181.1	183.9	186.1	183.9	181.1	178.3	176.2	178.3	181.1
62°	158.2	160.7	163.5	166.6	168.9	166.6	163.5	160.7	158.2	160.7	163.5
62.5°	140.1	143.4	146.5	149.5	152.1	149.5	146.5	143.4	140.1	143.4	146.5
63°	122.6	127.1	129.9	133.0	135.8	133.0	129.9	127.1	122.6	127.1	129.9
63.5°	105.8	111.6	114.7	117.5	120.5	117.5	114.7	111.6	105.8	111.6	114.7
64°	89.5	97.1	100.7	103.2	106.3	103.2	100.7	97.1	89.5	97.1	100.7
64.5°	75.0	83.9	87.2	89.5	92.6	89.5	87.2	83.9	75.0	83.9	87.2
65°	61.8	71.2	74.5	76.5	78.8	76.5	74.5	71.2	61.8	71.2	74.5
65.5°	49.3	60.0	62.8	63.8	65.9	63.8	62.8	60.0	49.3	60.0	62.8
66°	38.7	49.8	51.9	53.4	54.4	53.4	51.9	49.8	38.7	49.8	51.9



TEST NUMBER: P776028

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	12.0	23.1	24.9	26.4	28.0	26.4	24.9	23.1	12.0	23.1	24.9
68°	7.1	16.3	17.8	19.8	22.9	19.8	17.8	16.3	7.1	16.3	17.8
68.5°	4.3	10.7	12.7	14.0	17.8	14.0	12.7	10.7	4.3	10.7	12.7
69°	2.5	6.4	7.9	8.9	12.7	8.9	7.9	6.4	2.5	6.4	7.9
69.5°	1.5	4.1	4.6	4.6	7.6	4.6	4.6	4.1	1.5	4.1	4.6
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: P776028
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776028

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
0.5°	1397.1	1396.8	1397.1	1396.8	1396.6	1396.1
1°	1397.4	1397.1	1397.4	1397.1	1396.8	1396.6
1.5°	1397.9	1397.6	1397.9	1397.6	1397.4	1397.1
2°	1398.4	1398.1	1398.4	1398.4	1398.1	1397.9
2.5°	1399.4	1399.1	1399.4	1399.4	1398.9	1398.6
3°	1400.4	1400.2	1400.4	1400.4	1400.2	1399.9
3.5°	1401.9	1401.7	1401.9	1401.9	1401.4	1401.2
4°	1403.7	1403.5	1403.7	1403.5	1403.0	1402.7
4.5°	1405.5	1405.2	1405.5	1405.2	1404.7	1404.5
5°	1407.5	1407.5	1407.5	1407.3	1406.8	1406.5
5.5°	1410.1	1409.8	1410.1	1409.6	1409.1	1408.5
6°	1412.6	1412.4	1412.6	1412.1	1411.3	1411.1
6.5°	1415.2	1414.9	1415.2	1414.9	1414.1	1413.9
7°	1418.2	1418.0	1418.2	1418.0	1417.2	1416.9
7.5°	1421.5	1421.3	1421.5	1421.5	1420.8	1420.5
8°	1425.6	1425.3	1425.6	1425.3	1424.6	1424.1
8.5°	1429.9	1429.7	1429.9	1429.9	1428.9	1428.4
9°	1434.7	1434.2	1434.7	1434.5	1433.7	1433.2
9.5°	1439.8	1439.1	1439.8	1439.6	1438.8	1438.3
10°	1444.9	1444.1	1444.9	1444.9	1444.1	1443.6
10.5°	1450.0	1449.5	1450.0	1450.0	1449.5	1449.0
11°	1455.3	1454.8	1455.3	1455.6	1455.1	1454.3
11.5°	1460.7	1460.2	1460.7	1460.9	1460.4	1459.9
12°	1466.3	1465.8	1466.3	1466.3	1465.8	1465.3
12.5°	1471.9	1471.4	1471.9	1471.9	1471.4	1470.6
13°	1477.5	1477.0	1477.5	1477.5	1477.0	1475.9
13.5°	1483.1	1482.5	1483.1	1483.3	1482.5	1481.5
14°	1489.2	1488.1	1489.2	1489.2	1488.1	1486.9
14.5°	1495.0	1494.0	1495.0	1494.8	1493.7	1492.5
15°	1500.9	1499.6	1500.9	1500.6	1499.3	1498.1
15.5°	1506.5	1505.2	1506.5	1506.5	1504.9	1503.4
16°	1512.0	1510.8	1512.0	1512.0	1510.5	1508.7
16.5°	1517.4	1516.1	1517.4	1517.4	1515.6	1513.8
17°	1522.7	1521.2	1522.7	1522.7	1520.9	1519.2
17.5°	1527.8	1526.3	1527.8	1527.8	1526.0	1524.0
18°	1532.6	1531.4	1532.6	1532.6	1530.9	1528.6
18.5°	1537.2	1535.9	1537.2	1537.2	1535.4	1532.9
19°	1541.3	1540.3	1541.3	1541.5	1539.5	1537.0
19.5°	1545.1	1544.3	1545.1	1545.6	1543.1	1540.5
20°	1548.4	1548.2	1548.4	1549.2	1546.4	1543.8
20.5°	1551.2	1551.2	1551.2	1552.0	1549.2	1546.6
21°	1553.2	1553.7	1553.2	1554.3	1551.2	1548.7



TEST NUMBER: P776028

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1555.8	1557.3	1555.8	1557.1	1553.5	1551.2
23°	1555.0	1556.8	1555.0	1556.5	1552.7	1550.7
23.5°	1553.2	1555.5	1553.2	1555.0	1551.2	1549.2
24°	1551.0	1553.0	1551.0	1552.5	1548.7	1546.6
24.5°	1547.6	1549.4	1547.6	1548.9	1545.1	1543.1
25°	1543.3	1544.8	1543.3	1544.3	1540.8	1538.5
25.5°	1538.2	1539.0	1538.2	1539.0	1535.4	1533.4
26°	1532.1	1532.4	1532.1	1532.4	1529.1	1527.0
26.5°	1525.0	1524.5	1525.0	1524.8	1521.5	1519.2
27°	1516.9	1515.6	1516.9	1516.1	1513.3	1511.0
27.5°	1507.7	1505.7	1507.7	1506.5	1503.9	1501.6
28°	1497.5	1494.8	1497.5	1495.5	1493.5	1491.2
28.5°	1486.6	1483.1	1486.6	1484.1	1482.0	1480.3
29°	1474.4	1470.6	1474.4	1471.4	1469.8	1468.1
29.5°	1460.9	1457.4	1460.9	1458.4	1456.6	1455.1
30°	1446.7	1443.1	1446.7	1443.6	1442.4	1441.4
30.5°	1431.7	1428.1	1431.7	1428.6	1427.1	1426.6
31°	1415.4	1412.4	1415.4	1412.6	1411.1	1410.6
31.5°	1398.1	1395.8	1398.1	1395.8	1394.1	1394.1
32°	1380.1	1378.5	1380.1	1377.8	1376.3	1376.5
32.5°	1361.0	1360.5	1361.0	1359.5	1357.4	1357.9
33°	1341.2	1341.4	1341.2	1339.9	1338.1	1338.6
33.5°	1320.3	1321.1	1320.3	1319.5	1317.3	1318.3
34°	1298.4	1300.5	1298.4	1298.2	1296.1	1297.2
34.5°	1276.1	1278.3	1276.1	1275.8	1274.5	1274.5
35°	1253.2	1255.7	1253.2	1252.7	1251.4	1251.6
35.5°	1229.8	1232.3	1229.8	1229.3	1228.3	1228.3
36°	1205.9	1207.7	1205.9	1205.1	1204.3	1204.3
36.5°	1181.0	1183.0	1181.0	1180.4	1179.9	1179.7
37°	1155.5	1157.0	1155.5	1154.8	1154.5	1154.0
37.5°	1129.8	1130.6	1129.8	1129.1	1128.6	1128.3
38°	1103.4	1104.2	1103.4	1102.9	1102.1	1102.1
38.5°	1076.7	1077.2	1076.7	1076.2	1075.4	1075.4
39°	1050.0	1050.2	1050.0	1049.2	1048.2	1048.2
39.5°	1023.0	1023.3	1023.0	1021.5	1020.5	1020.2
40°	995.6	996.3	995.6	994.3	992.5	992.3
40.5°	969.9	970.4	969.9	967.6	965.3	964.8
41°	944.5	945.5	944.5	941.9	939.6	938.9
41.5°	920.0	920.8	920.0	917.5	915.5	914.4
42°	896.4	897.9	896.4	894.6	892.6	892.1
42.5°	875.8	876.8	875.8	874.0	871.5	871.2
43°	856.0	858.2	856.0	853.9	851.1	850.9
43.5°	836.9	838.7	836.9	834.9	832.8	832.1



TEST NUMBER: P776028

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	787.0	788.6	787.0	786.3	784.5	784.5
45.5°	772.6	773.3	772.6	771.8	770.0	770.0
46°	758.6	759.1	758.6	757.5	756.3	756.0
46.5°	744.6	745.6	744.6	743.8	742.5	742.5
47°	731.4	732.1	731.4	730.3	729.3	729.3
47.5°	718.1	718.4	718.1	717.4	716.1	716.1
48°	705.2	705.7	705.2	704.4	703.1	703.4
48.5°	692.2	692.4	692.2	691.2	690.2	690.2
49°	678.5	679.0	678.5	677.7	676.7	676.4
49.5°	664.2	664.5	664.2	663.5	662.2	662.4
50°	648.5	648.5	648.5	647.7	646.9	646.9
50.5°	631.4	631.4	631.4	630.4	629.9	629.9
51°	613.1	613.9	613.1	612.3	611.6	611.8
51.5°	594.5	594.8	594.5	593.5	592.5	592.8
52°	574.7	575.2	574.7	573.9	573.2	572.9
52.5°	554.6	554.9	554.6	553.6	552.3	552.6
53°	534.0	533.8	534.0	532.8	531.5	531.2
53.5°	512.7	513.2	512.7	511.6	510.1	509.9
54°	491.0	491.3	491.0	490.0	488.5	488.0
54.5°	469.7	470.2	469.7	468.4	466.4	466.4
55°	448.1	449.1	448.1	447.1	444.8	444.5
55.5°	426.5	427.5	426.5	424.9	422.6	422.1
56°	404.6	405.9	404.6	403.3	400.8	400.0
56.5°	383.0	384.2	383.0	381.4	378.9	378.1
57°	361.6	362.9	361.6	359.8	357.5	356.3
57.5°	340.5	341.8	340.5	338.5	336.2	334.9
58°	319.9	320.9	319.9	317.4	314.8	313.8
58.5°	299.8	300.6	299.8	296.8	294.2	292.7
59°	279.5	280.2	279.5	276.2	274.1	272.4
59.5°	259.6	260.4	259.6	256.3	254.0	252.8
60°	239.8	240.8	239.8	236.7	234.5	233.4
60.5°	220.5	222.0	220.5	217.4	215.1	214.1
61°	201.9	203.4	201.9	199.1	196.3	195.3
61.5°	183.9	186.1	183.9	181.1	178.3	176.2
62°	166.6	168.9	166.6	163.5	160.7	158.2
62.5°	149.5	152.1	149.5	146.5	143.4	140.1
63°	133.0	135.8	133.0	129.9	127.1	122.6
63.5°	117.5	120.5	117.5	114.7	111.6	105.8
64°	103.2	106.3	103.2	100.7	97.1	89.5
64.5°	89.5	92.6	89.5	87.2	83.9	75.0
65°	76.5	78.8	76.5	74.5	71.2	61.8
65.5°	63.8	65.9	63.8	62.8	60.0	49.3
66°	53.4	54.4	53.4	51.9	49.8	38.7



TEST NUMBER: P776028

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	26.4	28.0	26.4	24.9	23.1	12.0
68°	19.8	22.9	19.8	17.8	16.3	7.1
68.5°	14.0	17.8	14.0	12.7	10.7	4.3
69°	8.9	12.7	8.9	7.9	6.4	2.5
69.5°	4.6	7.6	4.6	4.6	4.1	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: P776028

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-4000K

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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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	1550.4	1552.7	1556.0	1554.8	1555.8	1554.8	1556.0	1552.7	1550.4	1552.7	1556.0
22°	1551.2	1553.5	1557.1	1555.5	1556.8	1555.5	1557.1	1553.5	1551.2	1553.5	1557.1



44°	815.0	815.5	817.6	818.8	820.9	818.8	817.6	815.5	815.0	815.5	817.6
44.5°	799.5	799.8	801.5	802.6	803.8	802.6	801.5	799.8	799.5	799.8	801.5



66.5°	28.2	39.7	42.2	43.7	44.0	43.7	42.2	39.7	28.2	39.7	42.2
67°	19.6	31.3	32.8	34.3	34.6	34.3	32.8	31.3	19.6	31.3	32.8



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°	1554.8	1555.8	1554.8	1556.0	1552.7	1550.4
22°	1555.5	1556.8	1555.5	1557.1	1553.5	1551.2



44°	818.8	820.9	818.8	817.6	815.5	815.0
44.5°	802.6	803.8	802.6	801.5	799.8	799.5

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66.5°	43.7	44.0	43.7	42.2	39.7	28.2
67°	34.3	34.6	34.3	32.8	31.3	19.6

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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)