

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: P776173

Luminaire Tested: HCDJBS1525CSD-HCD82TRMW-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B064-HCD82TRMW)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRMW-2500lm-4000K
Description: 8 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

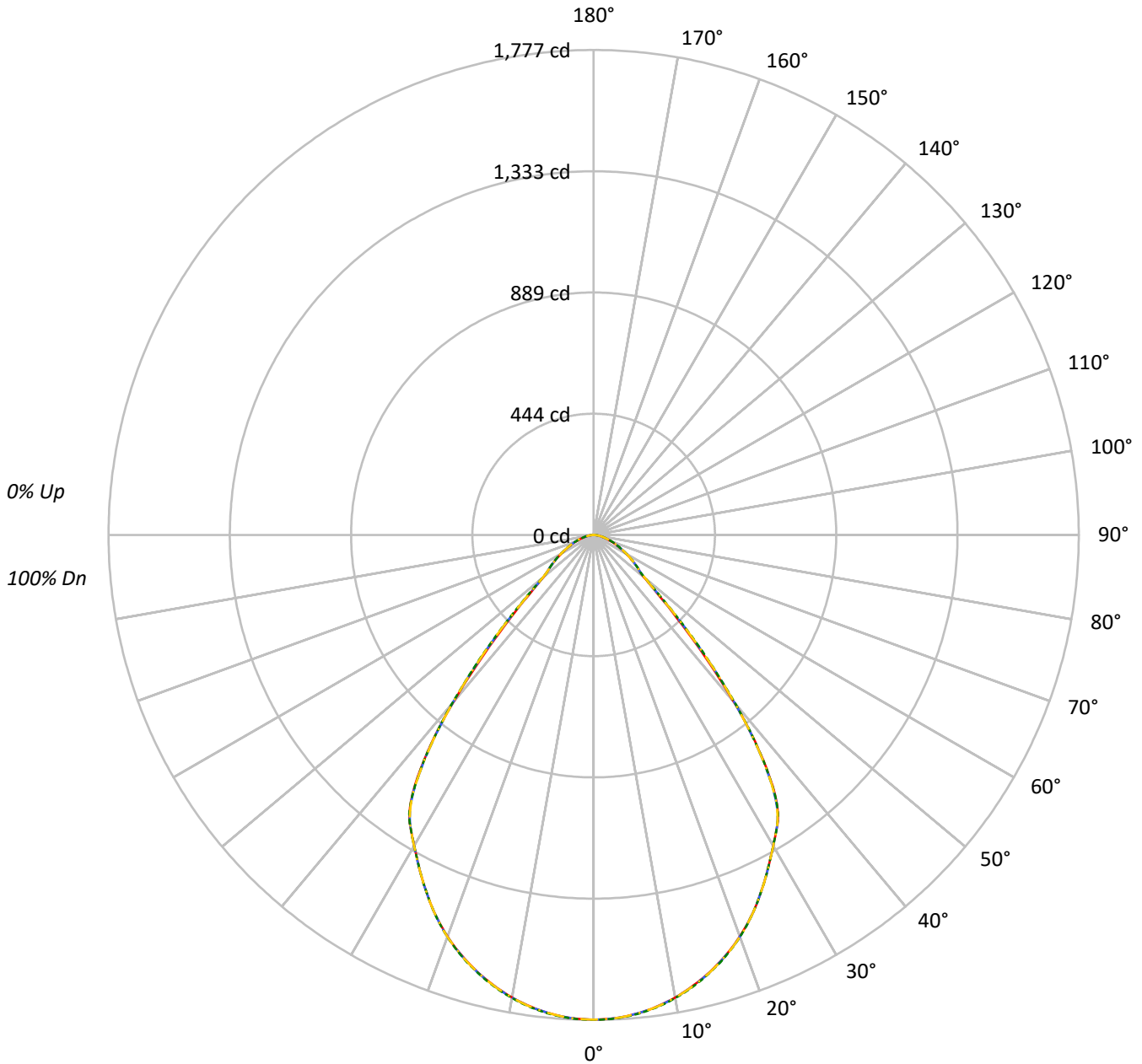
Lumens per Lamp: N/A
Luminaire Lumens: 2678.4 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	96	95	95	93	92	90																			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81																			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72																			
4	91	82	75	70	89	81	74	70	79	73	69	76	72	68	74	70	67	65																			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59																			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49																			
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	54225	54225	54225	54225
5°	54003	54049	54003	54049
10°	53350	53428	53350	53428
15°	52304	52383	52304	52383
20°	50869	50918	50869	50918
25°	48758	48768	48758	48768
30°	46372	46372	46372	46372
35°	43077	42992	43077	42992
40°	31840	32214	31840	32214
45°	18717	19632	18717	19632
50°	11456	11599	11456	11599
55°	9821	9831	9821	9831
60°	8371	8451	8371	8451
65°	7116	7282	7116	7282
70°	6043	6311	6043	6311
75°	5037	5438	5037	5438
80°	4026	4571	4026	4571
85°	2487	3468	2487	3468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 19783 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	6.2
10°-20°	465.9	17.4
20°-30°	665.3	24.8
30°-40°	694.7	25.9
40°-50°	360.9	13.5
50°-60°	165.4	6.2
60°-70°	100.3	3.7
70°-80°	48.1	1.8
80°-90°	10.8	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1298.2	48.5
0°-40°	1992.9	74.4
0°-60°	2519.2	94.1
0°-90°	2678.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1776	1776	1776	1776	1776	
5°	1762	1764	1762	1764	1762	167
15°	1655	1657	1655	1657	1655	466
25°	1447	1448	1447	1448	1447	665
35°	1156	1154	1156	1154	1156	696
45°	434	455	434	455	434	352
55°	184	185	184	185	184	165
65°	98	101	98	101	98	99
75°	43	46	43	46	43	46
85°	7	10	7	10	7	9
90°	0	0	0	0	0	



TEST NUMBER: P776173

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1
0.5°	1775.9	1775.3	1775.9	1775.9	1776.9	1775.9	1775.9	1775.3	1775.9	1775.3	1775.9
1°	1775.6	1775.1	1775.6	1775.6	1776.4	1775.6	1775.6	1775.1	1775.6	1775.1	1775.6
1.5°	1774.8	1774.3	1774.8	1774.8	1775.9	1774.8	1774.8	1774.3	1774.8	1774.3	1774.8
2°	1773.8	1773.3	1773.8	1773.8	1774.8	1773.8	1773.8	1773.3	1773.8	1773.3	1773.8
2.5°	1772.6	1772.0	1772.6	1772.8	1773.6	1772.8	1772.6	1772.0	1772.6	1772.0	1772.6
3°	1771.0	1770.5	1771.0	1771.3	1772.3	1771.3	1771.0	1770.5	1771.0	1770.5	1771.0
3.5°	1769.2	1768.7	1769.2	1769.5	1770.5	1769.5	1769.2	1768.7	1769.2	1768.7	1769.2
4°	1767.0	1766.7	1767.2	1767.5	1768.5	1767.5	1767.2	1766.7	1767.0	1766.7	1767.2
4.5°	1764.7	1764.4	1764.9	1765.2	1766.2	1765.2	1764.9	1764.4	1764.7	1764.4	1764.9
5°	1762.1	1761.6	1762.1	1762.6	1763.6	1762.6	1762.1	1761.6	1762.1	1761.6	1762.1
5.5°	1759.1	1758.8	1759.3	1759.8	1760.8	1759.8	1759.3	1758.8	1759.1	1758.8	1759.3
6°	1756.0	1755.5	1756.3	1756.8	1757.5	1756.8	1756.3	1755.5	1756.0	1755.5	1756.3
6.5°	1752.5	1752.2	1753.0	1753.5	1754.2	1753.5	1753.0	1752.2	1752.5	1752.2	1753.0
7°	1748.9	1748.4	1749.1	1749.7	1750.7	1749.7	1749.1	1748.4	1748.9	1748.4	1749.1
7.5°	1744.8	1744.3	1745.3	1745.8	1746.9	1745.8	1745.3	1744.3	1744.8	1744.3	1745.3
8°	1740.5	1740.2	1741.0	1741.5	1742.8	1741.5	1741.0	1740.2	1740.5	1740.2	1741.0
8.5°	1735.9	1735.7	1736.7	1737.2	1738.2	1737.2	1736.7	1735.7	1735.9	1735.7	1736.7
9°	1731.3	1731.1	1731.8	1732.6	1733.6	1732.6	1731.8	1731.1	1731.3	1731.1	1731.8
9.5°	1726.0	1726.0	1726.8	1727.5	1728.5	1727.5	1726.8	1726.0	1726.0	1726.0	1726.8
10°	1720.9	1720.6	1721.7	1722.4	1723.4	1722.4	1721.7	1720.6	1720.9	1720.6	1721.7
10.5°	1715.3	1715.1	1716.1	1716.8	1718.1	1716.8	1716.1	1715.1	1715.3	1715.1	1716.1
11°	1709.5	1709.5	1710.2	1711.2	1712.3	1711.2	1710.2	1709.5	1709.5	1709.5	1710.2
11.5°	1703.6	1703.3	1704.4	1705.1	1706.1	1705.1	1704.4	1703.3	1703.6	1703.3	1704.4
12°	1697.2	1697.2	1698.0	1699.0	1700.0	1699.0	1698.0	1697.2	1697.2	1697.2	1698.0
12.5°	1690.6	1690.6	1691.6	1692.7	1693.4	1692.7	1691.6	1690.6	1690.6	1690.6	1691.6
13°	1684.0	1684.0	1685.0	1685.8	1686.8	1685.8	1685.0	1684.0	1684.0	1684.0	1685.0
13.5°	1676.9	1676.9	1677.9	1679.2	1679.7	1679.2	1677.9	1676.9	1676.9	1676.9	1677.9
14°	1670.0	1669.8	1670.8	1671.8	1672.6	1671.8	1670.8	1669.8	1670.0	1669.8	1670.8
14.5°	1662.4	1662.4	1663.4	1664.4	1665.2	1664.4	1663.4	1662.4	1662.4	1662.4	1663.4
15°	1654.8	1655.0	1656.0	1656.8	1657.3	1656.8	1656.0	1655.0	1654.8	1655.0	1656.0
15.5°	1646.9	1647.1	1648.1	1648.9	1649.4	1648.9	1648.1	1647.1	1646.9	1647.1	1648.1
16°	1639.0	1639.0	1640.0	1640.8	1641.3	1640.8	1640.0	1639.0	1639.0	1639.0	1640.0
16.5°	1630.8	1630.8	1631.9	1632.4	1633.1	1632.4	1631.9	1630.8	1630.8	1630.8	1631.9
17°	1622.2	1622.2	1623.2	1624.0	1624.5	1624.0	1623.2	1622.2	1622.2	1622.2	1623.2
17.5°	1613.3	1613.5	1614.6	1615.1	1615.6	1615.1	1614.6	1613.5	1613.3	1613.5	1614.6
18°	1604.4	1604.4	1605.4	1605.9	1606.4	1605.9	1605.4	1604.4	1604.4	1604.4	1605.4
18.5°	1595.2	1595.2	1596.2	1596.5	1597.0	1596.5	1596.2	1595.2	1595.2	1595.2	1596.2
19°	1585.6	1585.6	1586.6	1587.1	1587.3	1587.1	1586.6	1585.6	1585.6	1585.6	1586.6
19.5°	1575.6	1575.9	1576.6	1577.2	1577.4	1577.2	1576.6	1575.9	1575.6	1575.9	1576.6
20°	1565.7	1565.7	1566.5	1566.7	1567.2	1566.7	1566.5	1565.7	1565.7	1565.7	1566.5
20.5°	1555.3	1555.3	1556.0	1556.0	1556.5	1556.0	1556.0	1555.3	1555.3	1555.3	1556.0
21°	1544.6	1544.6	1545.4	1545.4	1545.6	1545.4	1545.4	1544.6	1544.6	1544.6	1545.4



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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°	1510.2	1510.2	1510.8	1510.5	1511.0	1510.5	1510.8	1510.2	1510.2	1510.2	1510.8
23°	1498.3	1498.3	1498.5	1498.5	1498.8	1498.5	1498.5	1498.3	1498.3	1498.3	1498.5
23.5°	1486.1	1486.1	1486.3	1486.1	1486.3	1486.1	1486.3	1486.1	1486.1	1486.1	1486.3
24°	1473.6	1473.4	1473.6	1473.4	1473.6	1473.4	1473.6	1473.4	1473.6	1473.4	1473.6
24.5°	1460.4	1460.4	1460.9	1460.6	1460.6	1460.6	1460.9	1460.4	1460.4	1460.4	1460.9
25°	1447.4	1447.4	1447.7	1447.7	1447.7	1447.7	1447.7	1447.4	1447.4	1447.4	1447.7
25.5°	1434.4	1434.2	1434.7	1434.4	1434.4	1434.4	1434.7	1434.2	1434.4	1434.2	1434.7
26°	1421.2	1420.9	1421.2	1421.4	1421.2	1421.4	1421.2	1420.9	1421.2	1420.9	1421.2
26.5°	1407.7	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1407.7	1408.0	1408.0
27°	1394.5	1394.5	1394.7	1394.7	1394.5	1394.7	1394.7	1394.5	1394.5	1394.5	1394.7
27.5°	1381.0	1381.0	1381.5	1381.5	1381.0	1381.5	1381.5	1381.0	1381.0	1381.0	1381.5
28°	1367.8	1367.8	1368.3	1368.0	1368.0	1368.0	1368.3	1367.8	1367.8	1367.8	1368.3
28.5°	1354.5	1354.5	1355.0	1354.8	1354.5	1354.8	1355.0	1354.5	1354.5	1354.5	1355.0
29°	1341.1	1341.6	1341.8	1341.6	1341.6	1341.6	1341.8	1341.6	1341.1	1341.6	1341.8
29.5°	1328.1	1328.3	1328.8	1328.8	1328.3	1328.8	1328.8	1328.3	1328.1	1328.3	1328.8
30°	1315.4	1315.6	1315.9	1315.9	1315.4	1315.9	1315.9	1315.6	1315.4	1315.6	1315.9
30.5°	1302.6	1303.1	1303.4	1303.1	1302.4	1303.1	1303.4	1303.1	1302.6	1303.1	1303.4
31°	1290.2	1290.4	1290.9	1290.7	1290.4	1290.7	1290.9	1290.4	1290.2	1290.4	1290.9
31.5°	1278.2	1278.2	1278.5	1278.2	1277.7	1278.2	1278.5	1278.2	1278.2	1278.2	1278.5
32°	1265.7	1265.7	1265.7	1265.5	1265.5	1265.5	1265.7	1265.7	1265.7	1265.7	1265.7
32.5°	1253.3	1252.3	1252.0	1251.8	1253.0	1251.8	1252.0	1252.3	1253.3	1252.3	1252.0
33°	1239.5	1237.0	1236.5	1235.7	1240.0	1235.7	1236.5	1237.0	1239.5	1237.0	1236.5
33.5°	1222.7	1218.9	1219.2	1217.7	1223.3	1217.7	1219.2	1218.9	1222.7	1218.9	1219.2
34°	1202.6	1198.3	1199.8	1196.8	1203.4	1196.8	1199.8	1198.3	1202.6	1198.3	1199.8
34.5°	1181.0	1174.9	1177.5	1174.4	1180.5	1174.4	1177.5	1174.9	1181.0	1174.9	1177.5
35°	1155.8	1150.2	1151.5	1149.5	1153.5	1149.5	1151.5	1150.2	1155.8	1150.2	1151.5
35.5°	1127.6	1124.5	1123.0	1121.2	1124.0	1121.2	1123.0	1124.5	1127.6	1124.5	1123.0
36°	1096.6	1097.1	1092.5	1090.4	1094.8	1090.4	1092.5	1097.1	1096.6	1097.1	1092.5
36.5°	1064.0	1066.3	1060.2	1057.9	1062.5	1057.9	1060.2	1066.3	1064.0	1066.3	1060.2
37°	1030.4	1032.4	1026.8	1023.8	1029.4	1023.8	1026.8	1032.4	1030.4	1032.4	1026.8
37.5°	995.5	995.5	991.7	988.9	994.0	988.9	991.7	995.5	995.5	995.5	991.7
38°	959.2	956.6	955.9	953.6	958.4	953.6	955.9	956.6	959.2	956.6	955.9
38.5°	921.3	916.7	918.7	916.9	921.8	916.9	918.7	916.7	921.3	916.7	918.7
39°	881.6	877.2	880.3	880.0	885.1	880.0	880.3	877.2	881.6	877.2	880.3
39.5°	841.1	838.1	841.6	842.6	847.2	842.6	841.6	838.1	841.1	838.1	841.6
40°	798.9	799.6	803.2	806.0	808.3	806.0	803.2	799.6	798.9	799.6	803.2
40.5°	756.6	760.5	764.3	769.1	769.4	769.1	764.3	760.5	756.6	760.5	764.3
41°	715.7	722.0	726.9	732.5	730.7	732.5	726.9	722.0	715.7	722.0	726.9
41.5°	675.2	682.6	689.5	696.1	692.3	696.1	689.5	682.6	675.2	682.6	689.5
42°	636.6	644.2	652.3	659.5	655.4	659.5	652.3	644.2	636.6	644.2	652.3
42.5°	599.2	606.5	615.4	623.8	619.0	623.8	615.4	606.5	599.2	606.5	615.4
43°	562.8	570.2	580.1	588.5	584.4	588.5	580.1	570.2	562.8	570.2	580.1
43.5°	528.2	534.8	545.5	554.6	550.3	554.6	545.5	534.8	528.2	534.8	545.5



TEST NUMBER: P776173

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	433.5	438.1	449.8	458.2	454.7	458.2	449.8	438.1	433.5	438.1	449.8
45.5°	405.8	409.9	421.1	429.0	426.2	429.0	421.1	409.9	405.8	409.9	421.1
46°	379.6	384.2	393.8	401.2	398.9	401.2	393.8	384.2	379.6	384.2	393.8
46.5°	355.7	360.8	367.6	375.3	373.5	375.3	367.6	360.8	355.7	360.8	367.6
47°	333.3	339.1	344.0	351.4	349.6	351.4	344.0	339.1	333.3	339.1	344.0
47.5°	313.4	319.6	322.1	329.2	327.2	329.2	322.1	319.6	313.4	319.6	322.1
48°	295.6	301.0	302.5	309.6	306.8	309.6	302.5	301.0	295.6	301.0	302.5
48.5°	279.6	283.9	285.2	291.3	288.0	291.3	285.2	283.9	279.6	283.9	285.2
49°	265.1	268.4	269.7	274.8	271.7	274.8	269.7	268.4	265.1	268.4	269.7
49.5°	252.6	254.9	256.5	260.3	256.7	260.3	256.5	254.9	252.6	254.9	256.5
50°	241.2	243.2	245.0	247.6	244.2	247.6	245.0	243.2	241.2	243.2	245.0
50.5°	231.8	233.3	234.8	236.9	233.6	236.9	234.8	233.3	231.8	233.3	234.8
51°	223.9	225.4	226.2	227.7	224.9	227.7	226.2	225.4	223.9	225.4	226.2
51.5°	217.3	218.5	219.3	219.8	218.0	219.8	219.3	218.5	217.3	218.5	219.3
52°	212.2	212.7	213.2	213.5	212.4	213.5	213.2	212.7	212.2	212.7	213.2
52.5°	207.4	207.6	207.9	207.9	207.9	207.9	207.9	207.6	207.4	207.6	207.9
53°	202.8	203.0	203.0	203.0	203.3	203.0	203.0	203.0	202.8	203.0	203.0
53.5°	198.4	198.4	198.4	198.2	198.7	198.2	198.4	198.4	198.4	198.4	198.4
54°	193.9	193.9	193.9	193.6	194.1	193.6	193.9	193.9	193.9	193.9	193.9
54.5°	189.3	189.3	189.3	189.0	189.5	189.0	189.3	189.3	189.3	189.3	189.3
55°	184.5	184.5	184.5	184.5	184.7	184.5	184.5	184.5	184.5	184.5	184.5
55.5°	179.6	179.6	179.9	179.6	179.9	179.6	179.9	179.6	179.6	179.6	179.9
56°	174.8	174.8	175.0	175.0	175.0	175.0	175.0	174.8	174.8	174.8	175.0
56.5°	170.0	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.0	170.2	170.2
57°	165.1	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.1	165.4	165.4
57.5°	160.3	160.5	160.8	160.8	160.8	160.8	160.8	160.5	160.3	160.5	160.8
58°	155.5	156.0	156.0	156.2	156.2	156.2	156.0	156.0	155.5	156.0	156.0
58.5°	150.6	151.4	151.4	151.6	151.6	151.6	151.4	151.4	150.6	151.4	151.4
59°	146.0	146.8	147.1	147.1	147.1	147.1	147.1	146.8	146.0	146.8	147.1
59.5°	141.7	142.5	142.7	142.7	142.7	142.7	142.7	142.5	141.7	142.5	142.7
60°	137.1	138.2	138.4	138.7	138.4	138.7	138.4	138.2	137.1	138.2	138.4
60.5°	132.8	133.8	134.3	134.3	134.3	134.3	134.3	133.8	132.8	133.8	134.3
61°	128.7	129.8	130.3	130.3	130.3	130.3	130.3	129.8	128.7	129.8	130.3
61.5°	124.7	125.7	126.2	126.4	126.4	126.4	126.2	125.7	124.7	125.7	126.2
62°	120.6	121.6	122.4	122.4	122.4	122.4	122.4	121.6	120.6	121.6	122.4
62.5°	116.8	117.8	118.6	118.6	118.6	118.6	118.6	117.8	116.8	117.8	118.6
63°	112.7	114.0	115.0	115.0	115.0	115.0	115.0	114.0	112.7	114.0	115.0
63.5°	109.1	110.4	111.2	111.4	111.4	111.4	111.2	110.4	109.1	110.4	111.2
64°	105.6	106.6	107.6	107.9	107.9	107.9	107.6	106.6	105.6	106.6	107.6
64.5°	102.0	103.0	104.3	104.3	104.3	104.3	104.3	103.0	102.0	103.0	104.3
65°	98.5	99.5	100.8	101.0	100.8	101.0	100.8	99.5	98.5	99.5	100.8
65.5°	95.2	96.2	97.4	97.7	97.7	97.7	97.4	96.2	95.2	96.2	97.4
66°	91.8	92.9	94.1	94.4	94.4	94.4	94.1	92.9	91.8	92.9	94.1



TEST NUMBER: P776173

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	82.2	83.5	84.7	85.2	85.0	85.2	84.7	83.5	82.2	83.5	84.7
68°	79.1	80.4	81.9	82.2	82.2	82.2	81.9	80.4	79.1	80.4	81.9
68.5°	76.3	77.3	78.9	79.1	79.1	79.1	78.9	77.3	76.3	77.3	78.9
69°	73.3	74.5	76.1	76.3	76.3	76.3	76.1	74.5	73.3	74.5	76.1
69.5°	70.5	71.5	73.3	73.5	73.5	73.5	73.3	71.5	70.5	71.5	73.3
70°	67.7	68.7	70.5	70.7	70.7	70.7	70.5	68.7	67.7	68.7	70.5
70.5°	64.9	65.9	67.7	67.9	67.9	67.9	67.7	65.9	64.9	65.9	67.7
71°	62.3	63.4	64.9	65.4	65.4	65.4	64.9	63.4	62.3	63.4	64.9
71.5°	59.5	60.6	62.3	62.8	62.8	62.8	62.3	60.6	59.5	60.6	62.3
72°	57.0	58.0	59.8	60.3	60.3	60.3	59.8	58.0	57.0	58.0	59.8
72.5°	54.4	55.5	57.2	57.8	57.8	57.8	57.2	55.5	54.4	55.5	57.2
73°	51.9	52.9	54.7	55.2	55.2	55.2	54.7	52.9	51.9	52.9	54.7
73.5°	49.6	50.6	52.4	52.9	52.9	52.9	52.4	50.6	49.6	50.6	52.4
74°	47.3	48.3	49.9	50.6	50.6	50.6	49.9	48.3	47.3	48.3	49.9
74.5°	45.0	45.8	47.6	48.3	48.3	48.3	47.6	45.8	45.0	45.8	47.6
75°	42.7	43.5	45.3	46.1	46.1	46.1	45.3	43.5	42.7	43.5	45.3
75.5°	40.5	41.5	43.0	43.8	43.8	43.8	43.0	41.5	40.5	41.5	43.0
76°	38.4	39.2	41.0	41.7	41.7	41.7	41.0	39.2	38.4	39.2	41.0
76.5°	36.1	37.1	38.7	39.4	39.4	39.4	38.7	37.1	36.1	37.1	38.7
77°	34.1	35.1	36.6	37.4	37.4	37.4	36.6	35.1	34.1	35.1	36.6
77.5°	32.3	33.1	34.6	35.4	35.4	35.4	34.6	33.1	32.3	33.1	34.6
78°	30.3	31.0	32.6	33.6	33.6	33.6	32.6	31.0	30.3	31.0	32.6
78.5°	28.2	29.0	30.8	31.5	31.5	31.5	30.8	29.0	28.2	29.0	30.8
79°	26.5	27.2	28.7	29.8	29.8	29.8	28.7	27.2	26.5	27.2	28.7
79.5°	24.7	25.2	27.0	27.7	27.7	27.7	27.0	25.2	24.7	25.2	27.0
80°	22.9	23.4	25.2	26.0	26.0	26.0	25.2	23.4	22.9	23.4	25.2
80.5°	21.1	21.6	23.4	24.2	24.2	24.2	23.4	21.6	21.1	21.6	23.4
81°	19.3	19.8	21.6	22.4	22.4	22.4	21.6	19.8	19.3	19.8	21.6
81.5°	17.8	18.1	19.8	20.9	20.9	20.9	19.8	18.1	17.8	18.1	19.8
82°	16.0	16.5	18.1	19.1	19.1	19.1	18.1	16.5	16.0	16.5	18.1
82.5°	14.5	14.8	16.5	17.6	17.6	17.6	16.5	14.8	14.5	14.8	16.5
83°	13.0	13.2	15.0	16.0	16.0	16.0	15.0	13.2	13.0	13.2	15.0
83.5°	11.4	11.7	13.5	14.2	14.2	14.2	13.5	11.7	11.4	11.7	13.5
84°	9.9	10.2	12.0	12.7	12.7	12.7	12.0	10.2	9.9	10.2	12.0
84.5°	8.4	8.7	10.4	11.4	11.4	11.4	10.4	8.7	8.4	8.7	10.4
85°	7.1	7.4	9.2	9.9	9.9	9.9	9.2	7.4	7.1	7.4	9.2
85.5°	5.9	6.1	7.9	8.4	8.4	8.4	7.9	6.1	5.9	6.1	7.9
86°	4.6	5.1	6.6	7.1	7.1	7.1	6.6	5.1	4.6	5.1	6.6
86.5°	3.6	4.1	5.3	5.9	5.9	5.9	5.3	4.1	3.6	4.1	5.3
87°	2.8	3.1	4.1	4.6	4.6	4.6	4.1	3.1	2.8	3.1	4.1
87.5°	2.0	2.3	3.1	3.6	3.6	3.6	3.1	2.3	2.0	2.3	3.1
88°	1.3	1.5	2.3	2.5	2.5	2.5	2.3	1.5	1.3	1.5	2.3
88.5°	0.8	1.0	1.5	1.8	1.8	1.8	1.5	1.0	0.8	1.0	1.5



TEST NUMBER: P776173
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-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	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.3



TEST NUMBER: P776173

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1
0.5°	1775.9	1776.9	1775.9	1775.9	1775.3	1775.9
1°	1775.6	1776.4	1775.6	1775.6	1775.1	1775.6
1.5°	1774.8	1775.9	1774.8	1774.8	1774.3	1774.8
2°	1773.8	1774.8	1773.8	1773.8	1773.3	1773.8
2.5°	1772.8	1773.6	1772.8	1772.6	1772.0	1772.6
3°	1771.3	1772.3	1771.3	1771.0	1770.5	1771.0
3.5°	1769.5	1770.5	1769.5	1769.2	1768.7	1769.2
4°	1767.5	1768.5	1767.5	1767.2	1766.7	1767.0
4.5°	1765.2	1766.2	1765.2	1764.9	1764.4	1764.7
5°	1762.6	1763.6	1762.6	1762.1	1761.6	1762.1
5.5°	1759.8	1760.8	1759.8	1759.3	1758.8	1759.1
6°	1756.8	1757.5	1756.8	1756.3	1755.5	1756.0
6.5°	1753.5	1754.2	1753.5	1753.0	1752.2	1752.5
7°	1749.7	1750.7	1749.7	1749.1	1748.4	1748.9
7.5°	1745.8	1746.9	1745.8	1745.3	1744.3	1744.8
8°	1741.5	1742.8	1741.5	1741.0	1740.2	1740.5
8.5°	1737.2	1738.2	1737.2	1736.7	1735.7	1735.9
9°	1732.6	1733.6	1732.6	1731.8	1731.1	1731.3
9.5°	1727.5	1728.5	1727.5	1726.8	1726.0	1726.0
10°	1722.4	1723.4	1722.4	1721.7	1720.6	1720.9
10.5°	1716.8	1718.1	1716.8	1716.1	1715.1	1715.3
11°	1711.2	1712.3	1711.2	1710.2	1709.5	1709.5
11.5°	1705.1	1706.1	1705.1	1704.4	1703.3	1703.6
12°	1699.0	1700.0	1699.0	1698.0	1697.2	1697.2
12.5°	1692.7	1693.4	1692.7	1691.6	1690.6	1690.6
13°	1685.8	1686.8	1685.8	1685.0	1684.0	1684.0
13.5°	1679.2	1679.7	1679.2	1677.9	1676.9	1676.9
14°	1671.8	1672.6	1671.8	1670.8	1669.8	1670.0
14.5°	1664.4	1665.2	1664.4	1663.4	1662.4	1662.4
15°	1656.8	1657.3	1656.8	1656.0	1655.0	1654.8
15.5°	1648.9	1649.4	1648.9	1648.1	1647.1	1646.9
16°	1640.8	1641.3	1640.8	1640.0	1639.0	1639.0
16.5°	1632.4	1633.1	1632.4	1631.9	1630.8	1630.8
17°	1624.0	1624.5	1624.0	1623.2	1622.2	1622.2
17.5°	1615.1	1615.6	1615.1	1614.6	1613.5	1613.3
18°	1605.9	1606.4	1605.9	1605.4	1604.4	1604.4
18.5°	1596.5	1597.0	1596.5	1596.2	1595.2	1595.2
19°	1587.1	1587.3	1587.1	1586.6	1585.6	1585.6
19.5°	1577.2	1577.4	1577.2	1576.6	1575.9	1575.6
20°	1566.7	1567.2	1566.7	1566.5	1565.7	1565.7
20.5°	1556.0	1556.5	1556.0	1556.0	1555.3	1555.3
21°	1545.4	1545.6	1545.4	1545.4	1544.6	1544.6



TEST NUMBER: P776173

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1510.5	1511.0	1510.5	1510.8	1510.2	1510.2
23°	1498.5	1498.8	1498.5	1498.5	1498.3	1498.3
23.5°	1486.1	1486.3	1486.1	1486.3	1486.1	1486.1
24°	1473.4	1473.6	1473.4	1473.6	1473.4	1473.6
24.5°	1460.6	1460.6	1460.6	1460.9	1460.4	1460.4
25°	1447.7	1447.7	1447.7	1447.7	1447.4	1447.4
25.5°	1434.4	1434.4	1434.4	1434.7	1434.2	1434.4
26°	1421.4	1421.2	1421.4	1421.2	1420.9	1421.2
26.5°	1408.0	1408.0	1408.0	1408.0	1408.0	1407.7
27°	1394.7	1394.5	1394.7	1394.7	1394.5	1394.5
27.5°	1381.5	1381.0	1381.5	1381.5	1381.0	1381.0
28°	1368.0	1368.0	1368.0	1368.3	1367.8	1367.8
28.5°	1354.8	1354.5	1354.8	1355.0	1354.5	1354.5
29°	1341.6	1341.6	1341.6	1341.8	1341.6	1341.1
29.5°	1328.8	1328.3	1328.8	1328.8	1328.3	1328.1
30°	1315.9	1315.4	1315.9	1315.9	1315.6	1315.4
30.5°	1303.1	1302.4	1303.1	1303.4	1303.1	1302.6
31°	1290.7	1290.4	1290.7	1290.9	1290.4	1290.2
31.5°	1278.2	1277.7	1278.2	1278.5	1278.2	1278.2
32°	1265.5	1265.5	1265.5	1265.7	1265.7	1265.7
32.5°	1251.8	1253.0	1251.8	1252.0	1252.3	1253.3
33°	1235.7	1240.0	1235.7	1236.5	1237.0	1239.5
33.5°	1217.7	1223.3	1217.7	1219.2	1218.9	1222.7
34°	1196.8	1203.4	1196.8	1199.8	1198.3	1202.6
34.5°	1174.4	1180.5	1174.4	1177.5	1174.9	1181.0
35°	1149.5	1153.5	1149.5	1151.5	1150.2	1155.8
35.5°	1121.2	1124.0	1121.2	1123.0	1124.5	1127.6
36°	1090.4	1094.8	1090.4	1092.5	1097.1	1096.6
36.5°	1057.9	1062.5	1057.9	1060.2	1066.3	1064.0
37°	1023.8	1029.4	1023.8	1026.8	1032.4	1030.4
37.5°	988.9	994.0	988.9	991.7	995.5	995.5
38°	953.6	958.4	953.6	955.9	956.6	959.2
38.5°	916.9	921.8	916.9	918.7	916.7	921.3
39°	880.0	885.1	880.0	880.3	877.2	881.6
39.5°	842.6	847.2	842.6	841.6	838.1	841.1
40°	806.0	808.3	806.0	803.2	799.6	798.9
40.5°	769.1	769.4	769.1	764.3	760.5	756.6
41°	732.5	730.7	732.5	726.9	722.0	715.7
41.5°	696.1	692.3	696.1	689.5	682.6	675.2
42°	659.5	655.4	659.5	652.3	644.2	636.6
42.5°	623.8	619.0	623.8	615.4	606.5	599.2
43°	588.5	584.4	588.5	580.1	570.2	562.8
43.5°	554.6	550.3	554.6	545.5	534.8	528.2



TEST NUMBER: P776173

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	458.2	454.7	458.2	449.8	438.1	433.5
45.5°	429.0	426.2	429.0	421.1	409.9	405.8
46°	401.2	398.9	401.2	393.8	384.2	379.6
46.5°	375.3	373.5	375.3	367.6	360.8	355.7
47°	351.4	349.6	351.4	344.0	339.1	333.3
47.5°	329.2	327.2	329.2	322.1	319.6	313.4
48°	309.6	306.8	309.6	302.5	301.0	295.6
48.5°	291.3	288.0	291.3	285.2	283.9	279.6
49°	274.8	271.7	274.8	269.7	268.4	265.1
49.5°	260.3	256.7	260.3	256.5	254.9	252.6
50°	247.6	244.2	247.6	245.0	243.2	241.2
50.5°	236.9	233.6	236.9	234.8	233.3	231.8
51°	227.7	224.9	227.7	226.2	225.4	223.9
51.5°	219.8	218.0	219.8	219.3	218.5	217.3
52°	213.5	212.4	213.5	213.2	212.7	212.2
52.5°	207.9	207.9	207.9	207.9	207.6	207.4
53°	203.0	203.3	203.0	203.0	203.0	202.8
53.5°	198.2	198.7	198.2	198.4	198.4	198.4
54°	193.6	194.1	193.6	193.9	193.9	193.9
54.5°	189.0	189.5	189.0	189.3	189.3	189.3
55°	184.5	184.7	184.5	184.5	184.5	184.5
55.5°	179.6	179.9	179.6	179.9	179.6	179.6
56°	175.0	175.0	175.0	175.0	174.8	174.8
56.5°	170.2	170.2	170.2	170.2	170.2	170.0
57°	165.4	165.4	165.4	165.4	165.4	165.1
57.5°	160.8	160.8	160.8	160.8	160.5	160.3
58°	156.2	156.2	156.2	156.0	156.0	155.5
58.5°	151.6	151.6	151.6	151.4	151.4	150.6
59°	147.1	147.1	147.1	147.1	146.8	146.0
59.5°	142.7	142.7	142.7	142.7	142.5	141.7
60°	138.7	138.4	138.7	138.4	138.2	137.1
60.5°	134.3	134.3	134.3	134.3	133.8	132.8
61°	130.3	130.3	130.3	130.3	129.8	128.7
61.5°	126.4	126.4	126.4	126.2	125.7	124.7
62°	122.4	122.4	122.4	122.4	121.6	120.6
62.5°	118.6	118.6	118.6	118.6	117.8	116.8
63°	115.0	115.0	115.0	115.0	114.0	112.7
63.5°	111.4	111.4	111.4	111.2	110.4	109.1
64°	107.9	107.9	107.9	107.6	106.6	105.6
64.5°	104.3	104.3	104.3	104.3	103.0	102.0
65°	101.0	100.8	101.0	100.8	99.5	98.5
65.5°	97.7	97.7	97.7	97.4	96.2	95.2
66°	94.4	94.4	94.4	94.1	92.9	91.8



TEST NUMBER: P776173

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	85.2	85.0	85.2	84.7	83.5	82.2
68°	82.2	82.2	82.2	81.9	80.4	79.1
68.5°	79.1	79.1	79.1	78.9	77.3	76.3
69°	76.3	76.3	76.3	76.1	74.5	73.3
69.5°	73.5	73.5	73.5	73.3	71.5	70.5
70°	70.7	70.7	70.7	70.5	68.7	67.7
70.5°	67.9	67.9	67.9	67.7	65.9	64.9
71°	65.4	65.4	65.4	64.9	63.4	62.3
71.5°	62.8	62.6	62.8	62.3	60.6	59.5
72°	60.3	60.0	60.3	59.8	58.0	57.0
72.5°	57.8	57.5	57.8	57.2	55.5	54.4
73°	55.2	55.2	55.2	54.7	52.9	51.9
73.5°	52.9	52.9	52.9	52.4	50.6	49.6
74°	50.6	50.4	50.6	49.9	48.3	47.3
74.5°	48.3	48.1	48.3	47.6	45.8	45.0
75°	46.1	46.1	46.1	45.3	43.5	42.7
75.5°	43.8	43.8	43.8	43.0	41.5	40.5
76°	41.7	41.5	41.7	41.0	39.2	38.4
76.5°	39.4	39.4	39.4	38.7	37.1	36.1
77°	37.4	37.4	37.4	36.6	35.1	34.1
77.5°	35.4	35.4	35.4	34.6	33.1	32.3
78°	33.6	33.3	33.6	32.6	31.0	30.3
78.5°	31.5	31.5	31.5	30.8	29.0	28.2
79°	29.8	29.5	29.8	28.7	27.2	26.5
79.5°	27.7	27.7	27.7	27.0	25.2	24.7
80°	26.0	26.0	26.0	25.2	23.4	22.9
80.5°	24.2	24.2	24.2	23.4	21.6	21.1
81°	22.4	22.4	22.4	21.6	19.8	19.3
81.5°	20.9	20.9	20.9	19.8	18.1	17.8
82°	19.1	19.1	19.1	18.1	16.5	16.0
82.5°	17.6	17.6	17.6	16.5	14.8	14.5
83°	16.0	15.8	16.0	15.0	13.2	13.0
83.5°	14.2	14.2	14.2	13.5	11.7	11.4
84°	12.7	12.7	12.7	12.0	10.2	9.9
84.5°	11.4	11.4	11.4	10.4	8.7	8.4
85°	9.9	9.9	9.9	9.2	7.4	7.1
85.5°	8.4	8.4	8.4	7.9	6.1	5.9
86°	7.1	7.1	7.1	6.6	5.1	4.6
86.5°	5.9	5.9	5.9	5.3	4.1	3.6
87°	4.6	4.6	4.6	4.1	3.1	2.8
87.5°	3.6	3.3	3.6	3.1	2.3	2.0
88°	2.5	2.0	2.5	2.3	1.5	1.3
88.5°	1.8	1.3	1.8	1.5	1.0	0.8



TEST NUMBER: P776173

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	0.0	0.3	0.3	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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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





21.5°	1533.4	1533.6	1534.2	1534.2	1534.4	1534.2	1534.2	1533.6	1533.4	1533.6	1534.2
22°	1522.2	1522.2	1522.5	1522.5	1523.0	1522.5	1522.5	1522.2	1522.2	1522.2	1522.5



44°	495.1	500.7	512.4	521.1	517.2	521.1	512.4	500.7	495.1	500.7	512.4
44.5°	463.8	468.4	480.3	489.3	485.2	489.3	480.3	468.4	463.8	468.4	480.3



66.5°	88.3	89.6	90.8	91.1	91.3	91.1	90.8	89.6	88.3	89.6	90.8
67°	85.2	86.2	87.8	88.3	88.3	88.3	87.8	86.2	85.2	86.2	87.8



89°	0.3	0.5	0.8	1.3	0.8	1.3	0.8	0.5	0.3	0.5	0.8
89.5°	0.0	0.3	0.5	0.8	0.3	0.8	0.5	0.3	0.0	0.3	0.5

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21.5°	1534.2	1534.4	1534.2	1534.2	1533.6	1533.4
22°	1522.5	1523.0	1522.5	1522.5	1522.2	1522.2



44°	521.1	517.2	521.1	512.4	500.7	495.1
44.5°	489.3	485.2	489.3	480.3	468.4	463.8

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66.5°	91.1	91.3	91.1	90.8	89.6	88.3
67°	88.3	88.3	88.3	87.8	86.2	85.2

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89°	1.3	0.8	1.3	0.8	0.5	0.3
89.5°	0.8	0.3	0.8	0.5	0.3	0.0

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Scaled Data Report



(END OF REPORT)