

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: P776206

Luminaire Tested: HCDJBS1525CSD-HCD8TSQH-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B005-HCD4TSQC)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQH-2500lm-3000K
Description: 8 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

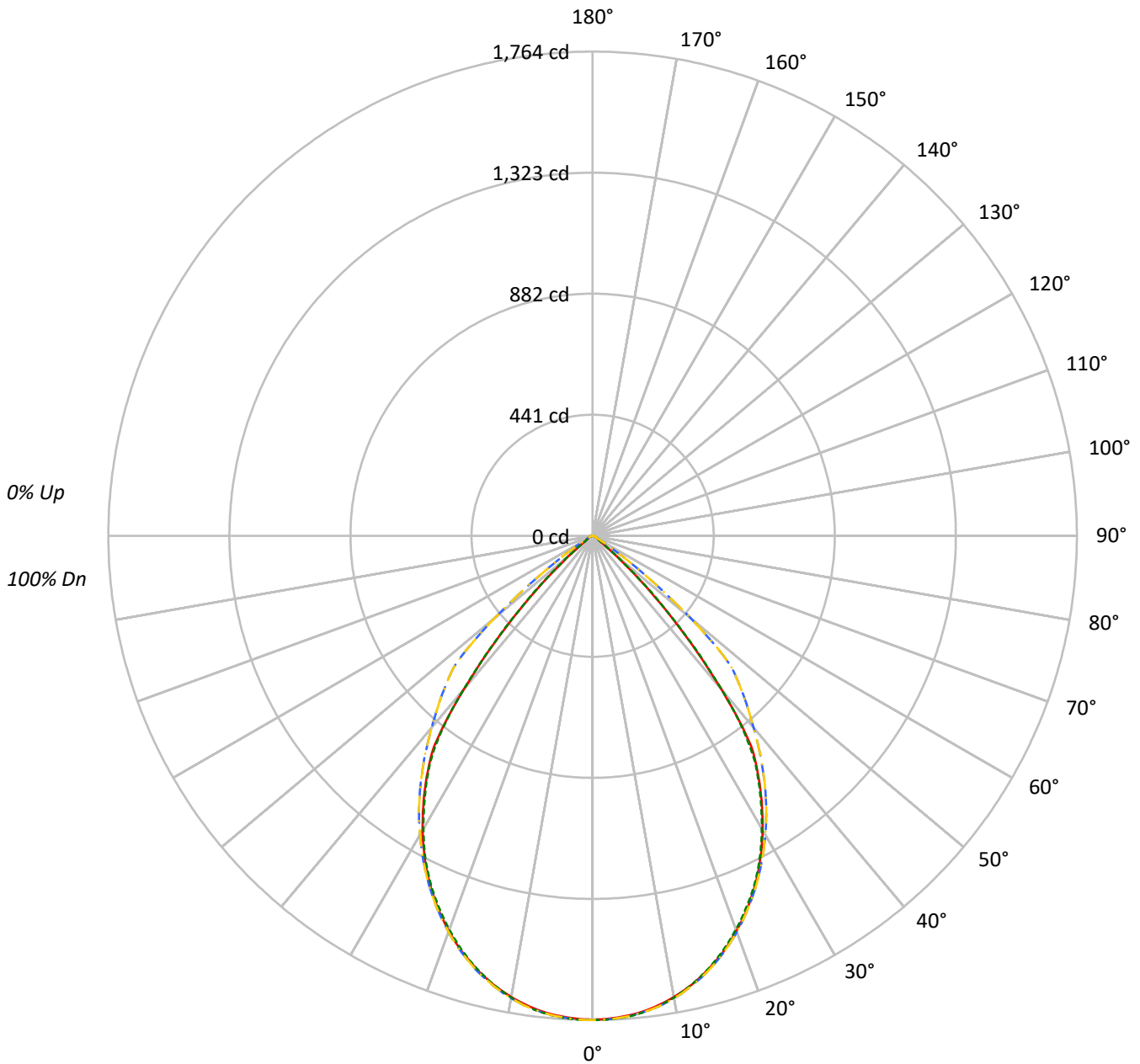
Lumens per Lamp: N/A
Luminaire Lumens: 2428.9 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58					58			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	42298	42298	42298	42298
5°	42096	42185	42096	42185
10°	41550	41585	41550	41585
15°	40560	40511	40560	40511
20°	39095	38950	39095	38950
25°	37080	36956	37080	36956
30°	34291	34134	34291	34134
35°	30642	30484	30642	30484
40°	22756	22881	22756	22881
45°	11926	12228	11926	12228
50°	3868	4182	3868	4182
55°	1279	1179	1279	1179
60°	974	911	974	911
65°	743	715	743	715
70°	589	568	589	568
75°	482	482	482	482
80°	373	414	373	414
85°	275	275	275	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 25348 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	6.8
10°-20°	459.6	18.9
20°-30°	643.8	26.5
30°-40°	661.3	27.2
40°-50°	400.6	16.5
50°-60°	75.3	3.1
60°-70°	14.6	0.6
70°-80°	6.5	0.3
80°-90°	1.4	0.1
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°	1269.2	52.3
0°-40°	1930.5	79.5
0°-60°	2406.4	99.1
0°-90°	2428.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1764	1764	1764	1764	1764	
5°	1749	1753	1749	1753	1749	166
15°	1634	1632	1634	1632	1634	459
25°	1402	1397	1402	1397	1402	642
35°	1047	1041	1047	1041	1047	639
45°	352	361	352	361	352	281
55°	31	28	31	28	31	35
65°	13	13	13	13	13	13
75°	5	5	5	5	5	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P776206

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0
0.5°	1762.3	1763.0	1764.2	1765.0	1764.5	1765.0	1764.2	1763.0	1762.3	1763.0	1764.2
1°	1762.0	1762.8	1763.7	1764.5	1764.2	1764.5	1763.7	1762.8	1762.0	1762.8	1763.7
1.5°	1761.3	1762.0	1763.3	1764.0	1763.7	1764.0	1763.3	1762.0	1761.3	1762.0	1763.3
2°	1760.3	1761.0	1762.3	1763.3	1762.8	1763.3	1762.3	1761.0	1760.3	1761.0	1762.3
2.5°	1759.1	1759.8	1761.3	1762.0	1761.8	1762.0	1761.3	1759.8	1759.1	1759.8	1761.3
3°	1757.6	1758.6	1759.8	1760.8	1760.5	1760.8	1759.8	1758.6	1757.6	1758.6	1759.8
3.5°	1755.8	1756.8	1758.3	1759.3	1759.1	1759.3	1758.3	1756.8	1755.8	1756.8	1758.3
4°	1753.9	1754.9	1756.3	1757.6	1757.3	1757.6	1756.3	1754.9	1753.9	1754.9	1756.3
4.5°	1751.6	1752.4	1754.1	1755.4	1755.1	1755.4	1754.1	1752.4	1751.6	1752.4	1754.1
5°	1748.9	1749.9	1751.9	1753.1	1752.6	1753.1	1751.9	1749.9	1748.9	1749.9	1751.9
5.5°	1746.2	1747.2	1749.2	1750.4	1749.7	1750.4	1749.2	1747.2	1746.2	1747.2	1749.2
6°	1742.8	1744.0	1746.2	1747.5	1746.7	1747.5	1746.2	1744.0	1742.8	1744.0	1746.2
6.5°	1739.3	1740.8	1743.0	1744.0	1743.0	1744.0	1743.0	1740.8	1739.3	1740.8	1743.0
7°	1735.6	1737.1	1739.3	1740.0	1739.1	1740.0	1739.3	1737.1	1735.6	1737.1	1739.3
7.5°	1731.4	1733.1	1735.3	1735.8	1734.6	1735.8	1735.3	1733.1	1731.4	1733.1	1735.3
8°	1727.0	1728.9	1731.2	1731.4	1730.2	1731.4	1731.2	1728.9	1727.0	1728.9	1731.2
8.5°	1722.3	1724.2	1726.5	1726.2	1725.0	1726.2	1726.5	1724.2	1722.3	1724.2	1726.5
9°	1717.3	1719.3	1721.5	1721.0	1719.5	1721.0	1721.5	1719.3	1717.3	1719.3	1721.5
9.5°	1712.1	1714.1	1716.3	1715.3	1713.9	1715.3	1716.3	1714.1	1712.1	1714.1	1716.3
10°	1706.5	1708.9	1710.7	1709.7	1707.9	1709.7	1710.7	1708.9	1706.5	1708.9	1710.7
10.5°	1700.5	1703.0	1704.7	1703.5	1701.8	1703.5	1704.7	1703.0	1700.5	1703.0	1704.7
11°	1694.4	1697.1	1698.6	1697.1	1695.1	1697.1	1698.6	1697.1	1694.4	1697.1	1698.6
11.5°	1687.9	1690.7	1691.9	1690.2	1688.2	1690.2	1691.9	1690.7	1687.9	1690.7	1691.9
12°	1681.0	1684.0	1685.0	1683.2	1681.3	1683.2	1685.0	1684.0	1681.0	1684.0	1685.0
12.5°	1673.9	1677.1	1677.8	1675.8	1673.6	1675.8	1677.8	1677.1	1673.9	1677.1	1677.8
13°	1666.4	1669.7	1670.4	1668.2	1666.0	1668.2	1670.4	1669.7	1666.4	1669.7	1670.4
13.5°	1658.8	1662.0	1662.5	1660.3	1657.8	1660.3	1662.5	1662.0	1658.8	1662.0	1662.5
14°	1650.6	1654.3	1654.6	1652.1	1649.4	1652.1	1654.6	1654.3	1650.6	1654.3	1654.6
14.5°	1642.5	1646.0	1646.2	1643.5	1640.8	1643.5	1646.2	1646.0	1642.5	1646.0	1646.2
15°	1633.9	1637.6	1637.8	1634.6	1631.9	1634.6	1637.8	1637.6	1633.9	1637.6	1637.8
15.5°	1625.0	1628.9	1628.7	1625.5	1622.5	1625.5	1628.7	1628.9	1625.0	1628.9	1628.7
16°	1615.8	1619.8	1619.5	1616.1	1613.1	1616.1	1619.5	1619.8	1615.8	1619.8	1619.5
16.5°	1606.4	1610.4	1609.9	1606.4	1603.2	1606.4	1609.9	1610.4	1606.4	1610.4	1609.9
17°	1596.8	1600.8	1600.3	1596.3	1593.1	1596.3	1600.3	1600.8	1596.8	1600.8	1600.3
17.5°	1586.7	1590.9	1590.1	1586.2	1582.7	1586.2	1590.1	1590.9	1586.7	1590.9	1590.1
18°	1576.3	1580.5	1579.5	1575.6	1571.9	1575.6	1579.5	1580.5	1576.3	1580.5	1579.5
18.5°	1565.7	1569.9	1569.1	1565.0	1560.8	1565.0	1569.1	1569.9	1565.7	1569.9	1569.1
19°	1554.8	1559.3	1558.3	1553.8	1549.6	1553.8	1558.3	1559.3	1554.8	1559.3	1558.3
19.5°	1543.5	1548.2	1546.9	1542.5	1538.0	1542.5	1546.9	1548.2	1543.5	1548.2	1546.9
20°	1532.1	1536.8	1535.6	1531.1	1526.4	1531.1	1535.6	1536.8	1532.1	1536.8	1535.6
20.5°	1520.5	1525.2	1524.0	1519.0	1514.3	1519.0	1524.0	1525.2	1520.5	1525.2	1524.0
21°	1508.4	1513.1	1512.1	1506.9	1502.0	1506.9	1512.1	1513.1	1508.4	1513.1	1512.1



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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°	1470.6	1475.8	1474.6	1469.1	1464.4	1469.1	1474.6	1475.8	1470.6	1475.8	1474.6
23°	1457.5	1462.7	1461.7	1456.0	1451.4	1456.0	1461.7	1462.7	1457.5	1462.7	1461.7
23.5°	1443.9	1449.6	1448.6	1443.0	1438.5	1443.0	1448.6	1449.6	1443.9	1449.6	1448.6
24°	1430.4	1435.8	1435.3	1429.6	1425.2	1429.6	1435.3	1435.8	1430.4	1435.8	1435.3
24.5°	1416.0	1422.0	1421.7	1416.3	1411.1	1416.3	1421.7	1422.0	1416.0	1422.0	1421.7
25°	1401.5	1407.9	1407.6	1402.7	1396.8	1402.7	1407.6	1407.9	1401.5	1407.9	1407.6
25.5°	1386.9	1393.6	1393.6	1388.4	1382.5	1388.4	1393.6	1393.6	1386.9	1393.6	1393.6
26°	1371.6	1378.7	1379.2	1374.5	1367.6	1374.5	1379.2	1378.7	1371.6	1378.7	1379.2
26.5°	1356.3	1363.7	1364.7	1360.0	1352.1	1360.0	1364.7	1363.7	1356.3	1363.7	1364.7
27°	1340.2	1348.4	1349.9	1345.2	1336.0	1345.2	1349.9	1348.4	1340.2	1348.4	1349.9
27.5°	1324.4	1332.8	1335.0	1329.9	1320.0	1329.9	1335.0	1332.8	1324.4	1332.8	1335.0
28°	1307.9	1316.8	1320.0	1314.0	1302.9	1314.0	1320.0	1316.8	1307.9	1316.8	1320.0
28.5°	1291.1	1300.5	1304.4	1298.0	1285.6	1298.0	1304.4	1300.5	1291.1	1300.5	1304.4
29°	1273.5	1284.4	1289.1	1281.7	1268.4	1281.7	1289.1	1284.4	1273.5	1284.4	1289.1
29.5°	1256.0	1267.9	1273.8	1264.7	1250.6	1264.7	1273.8	1267.9	1256.0	1267.9	1273.8
30°	1238.5	1250.8	1257.7	1247.6	1232.8	1247.6	1257.7	1250.8	1238.5	1250.8	1257.7
30.5°	1220.4	1233.5	1241.9	1230.1	1214.5	1230.1	1241.9	1233.5	1220.4	1233.5	1241.9
31°	1201.7	1216.0	1225.6	1212.8	1196.2	1212.8	1225.6	1216.0	1201.7	1216.0	1225.6
31.5°	1183.4	1198.5	1209.6	1195.0	1177.5	1195.0	1209.6	1198.5	1183.4	1198.5	1209.6
32°	1164.6	1180.4	1193.3	1177.2	1158.5	1177.2	1193.3	1180.4	1164.6	1180.4	1193.3
32.5°	1145.6	1162.2	1176.7	1158.7	1139.4	1158.7	1176.7	1162.2	1145.6	1162.2	1176.7
33°	1126.4	1143.9	1159.9	1140.9	1120.4	1140.9	1159.9	1143.9	1126.4	1143.9	1159.9
33.5°	1107.1	1125.9	1142.9	1122.7	1100.9	1122.7	1142.9	1125.9	1107.1	1125.9	1142.9
34°	1087.1	1107.3	1125.6	1104.4	1081.2	1104.4	1125.6	1107.3	1087.1	1107.3	1125.6
34.5°	1067.3	1088.6	1108.3	1086.1	1061.2	1086.1	1108.3	1088.6	1067.3	1088.6	1108.3
35°	1046.8	1069.8	1091.0	1067.3	1041.4	1067.3	1091.0	1069.8	1046.8	1069.8	1091.0
35.5°	1027.1	1051.3	1073.0	1048.8	1021.7	1048.8	1073.0	1051.3	1027.1	1051.3	1073.0
36°	1006.6	1032.3	1055.0	1030.0	998.2	1030.0	1055.0	1032.3	1006.6	1032.3	1055.0
36.5°	984.6	1012.8	1037.5	1011.0	971.8	1011.0	1037.5	1012.8	984.6	1012.8	1037.5
37°	958.2	993.7	1019.4	992.0	942.6	992.0	1019.4	993.7	958.2	993.7	1019.4
37.5°	923.6	974.2	1001.6	972.8	912.5	972.8	1001.6	974.2	923.6	974.2	1001.6
38°	888.8	955.0	983.1	953.7	880.4	953.7	983.1	955.0	888.8	955.0	983.1
38.5°	850.3	935.5	965.3	932.7	847.5	932.7	965.3	935.5	850.3	935.5	965.3
39°	810.3	915.2	947.6	908.3	810.8	908.3	947.6	915.2	810.3	915.2	947.6
39.5°	768.5	885.8	930.0	880.9	772.0	880.9	930.0	885.8	768.5	885.8	930.0
40°	727.0	854.2	912.3	851.0	731.0	851.0	912.3	854.2	727.0	854.2	912.3
40.5°	685.5	818.4	894.7	819.1	690.5	819.1	894.7	818.4	685.5	818.4	894.7
41°	646.3	781.4	877.7	785.1	651.5	785.1	877.7	781.4	646.3	781.4	877.7
41.5°	607.3	743.3	861.1	749.3	612.7	749.3	861.1	743.3	607.3	743.3	861.1
42°	569.2	705.3	844.6	711.7	575.2	711.7	844.6	705.3	569.2	705.3	844.6
42.5°	531.2	667.8	828.3	674.2	537.1	674.2	828.3	667.8	531.2	667.8	828.3
43°	493.7	629.7	812.0	636.4	500.3	636.4	812.0	629.7	493.7	629.7	812.0
43.5°	455.9	592.7	795.9	599.4	463.3	599.4	795.9	592.7	455.9	592.7	795.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	351.7	485.0	747.5	493.4	360.6	493.4	747.5	485.0	351.7	485.0	747.5
45.5°	319.1	449.7	731.5	458.3	329.2	458.3	731.5	449.7	319.1	449.7	731.5
46°	288.7	415.6	715.2	423.8	299.1	423.8	715.2	415.6	288.7	415.6	715.2
46.5°	258.8	382.5	698.4	390.2	268.4	390.2	698.4	382.5	258.8	382.5	698.4
47°	229.4	349.9	674.9	357.3	238.8	357.3	674.9	349.9	229.4	349.9	674.9
47.5°	201.3	318.6	646.3	326.7	212.4	326.7	646.3	318.6	201.3	318.6	646.3
48°	177.3	288.2	612.2	296.6	189.2	296.6	612.2	288.2	177.3	288.2	612.2
48.5°	155.3	259.3	576.1	267.5	167.4	267.5	576.1	259.3	155.3	259.3	576.1
49°	135.8	231.1	538.4	238.8	147.7	238.8	538.4	231.1	135.8	231.1	538.4
49.5°	118.8	204.0	499.6	213.1	129.2	213.1	499.6	204.0	118.8	204.0	499.6
50°	103.7	178.5	460.3	188.4	112.1	188.4	460.3	178.5	103.7	178.5	460.3
50.5°	89.6	155.6	421.6	165.7	96.1	165.7	421.6	155.6	89.6	155.6	421.6
51°	76.8	135.1	383.3	144.5	80.8	144.5	383.3	135.1	76.8	135.1	383.3
51.5°	66.4	117.1	347.5	125.2	67.9	125.2	347.5	117.1	66.4	117.1	347.5
52°	56.1	101.3	314.6	108.4	57.8	108.4	314.6	101.3	56.1	101.3	314.6
52.5°	47.2	87.2	282.5	92.9	50.9	92.9	282.5	87.2	47.2	87.2	282.5
53°	40.7	74.3	252.6	78.5	44.2	78.5	252.6	74.3	40.7	74.3	252.6
53.5°	34.8	63.5	223.2	65.2	37.3	65.2	223.2	63.5	34.8	63.5	223.2
54°	33.3	53.1	196.3	53.3	30.6	53.3	196.3	53.1	33.3	53.1	196.3
54.5°	31.9	44.5	170.6	44.2	29.1	44.2	170.6	44.5	31.9	44.5	170.6
55°	30.6	36.8	147.9	37.0	28.2	37.0	147.9	36.8	30.6	36.8	147.9
55.5°	29.4	31.4	127.4	31.9	26.9	31.9	127.4	31.4	29.4	31.4	127.4
56°	28.2	28.9	108.9	27.9	25.9	27.9	108.9	28.9	28.2	28.9	108.9
56.5°	26.9	27.7	92.4	25.9	24.9	25.9	92.4	27.7	26.9	27.7	92.4
57°	25.9	26.7	78.5	24.9	24.0	24.9	78.5	26.7	25.9	26.7	78.5
57.5°	24.7	25.7	66.4	24.0	23.0	24.0	66.4	25.7	24.7	25.7	66.4
58°	23.7	24.7	56.6	23.2	22.2	23.2	56.6	24.7	23.7	24.7	56.6
58.5°	22.7	23.7	47.7	22.2	21.2	22.2	47.7	23.7	22.7	23.7	47.7
59°	22.0	23.0	40.5	21.5	20.5	21.5	40.5	23.0	22.0	23.0	40.5
59.5°	21.0	22.2	34.3	20.7	19.8	20.7	34.3	22.2	21.0	22.2	34.3
60°	20.3	21.2	28.9	20.0	19.0	20.0	28.9	21.2	20.3	21.2	28.9
60.5°	19.3	20.5	25.7	19.3	18.0	19.3	25.7	20.5	19.3	20.5	25.7
61°	18.5	19.8	23.2	18.8	17.5	18.8	23.2	19.8	18.5	19.8	23.2
61.5°	17.8	19.0	21.2	18.0	16.8	18.0	21.2	19.0	17.8	19.0	21.2
62°	17.0	18.5	20.0	17.3	16.1	17.3	20.0	18.5	17.0	18.5	20.0
62.5°	16.3	17.8	19.0	16.8	15.6	16.8	19.0	17.8	16.3	17.8	19.0
63°	15.6	17.0	18.3	16.3	14.8	16.3	18.3	17.0	15.6	17.0	18.3
63.5°	15.1	16.5	17.5	15.6	14.3	15.6	17.5	16.5	15.1	16.5	17.5
64°	14.3	15.8	17.0	15.1	13.6	15.1	17.0	15.8	14.3	15.8	17.0
64.5°	13.8	15.3	16.3	14.6	13.1	14.6	16.3	15.3	13.8	15.3	16.3
65°	13.1	14.8	15.8	14.1	12.6	14.1	15.8	14.8	13.1	14.8	15.8
65.5°	12.6	14.1	15.1	13.6	12.1	13.6	15.1	14.1	12.6	14.1	15.1
66°	12.1	13.6	14.6	13.1	11.6	13.1	14.6	13.6	12.1	13.6	14.6



TEST NUMBER: P776206

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.6	12.1	13.1	11.6	10.1	11.6	13.1	12.1	10.6	12.1	13.1
68°	10.1	11.6	12.6	11.1	9.9	11.1	12.6	11.6	10.1	11.6	12.6
68.5°	9.6	11.1	12.1	10.9	9.4	10.9	12.1	11.1	9.6	11.1	12.1
69°	9.4	10.6	11.6	10.4	8.9	10.4	11.6	10.6	9.4	10.6	11.6
69.5°	8.9	10.4	11.1	9.9	8.6	9.9	11.1	10.4	8.9	10.4	11.1
70°	8.4	9.9	10.6	9.6	8.1	9.6	10.6	9.9	8.4	9.9	10.6
70.5°	8.1	9.4	10.4	9.1	7.9	9.1	10.4	9.4	8.1	9.4	10.4
71°	7.7	9.1	9.9	8.9	7.7	8.9	9.9	9.1	7.7	9.1	9.9
71.5°	7.4	8.6	9.4	8.4	7.2	8.4	9.4	8.6	7.4	8.6	9.4
72°	6.9	8.4	9.1	8.1	6.9	8.1	9.1	8.4	6.9	8.4	9.1
72.5°	6.7	7.9	8.6	7.7	6.7	7.7	8.6	7.9	6.7	7.9	8.6
73°	6.4	7.7	8.1	7.4	6.2	7.4	8.1	7.7	6.4	7.7	8.1
73.5°	5.9	7.2	7.9	7.2	5.9	7.2	7.9	7.2	5.9	7.2	7.9
74°	5.7	6.9	7.4	6.7	5.7	6.7	7.4	6.9	5.7	6.9	7.4
74.5°	5.4	6.7	7.2	6.4	5.4	6.4	7.2	6.7	5.4	6.7	7.2
75°	5.2	6.2	6.7	6.2	5.2	6.2	6.7	6.2	5.2	6.2	6.7
75.5°	4.9	5.9	6.4	5.9	4.9	5.9	6.4	5.9	4.9	5.9	6.4
76°	4.7	5.7	6.2	5.4	4.7	5.4	6.2	5.7	4.7	5.7	6.2
76.5°	4.4	5.2	5.7	5.2	4.4	5.2	5.7	5.2	4.4	5.2	5.7
77°	4.0	4.9	5.4	4.9	4.2	4.9	5.4	4.9	4.0	4.9	5.4
77.5°	3.7	4.7	5.2	4.7	4.0	4.7	5.2	4.7	3.7	4.7	5.2
78°	3.7	4.4	4.7	4.4	3.7	4.4	4.7	4.4	3.7	4.4	4.7
78.5°	3.5	4.2	4.4	4.2	3.5	4.2	4.4	4.2	3.5	4.2	4.4
79°	3.2	4.0	4.2	4.0	3.2	4.0	4.2	4.0	3.2	4.0	4.2
79.5°	3.0	3.5	4.0	3.7	3.0	3.7	4.0	3.5	3.0	3.5	4.0
80°	2.7	3.2	3.7	3.5	3.0	3.5	3.7	3.2	2.7	3.2	3.7
80.5°	2.5	3.0	3.5	3.2	2.7	3.2	3.5	3.0	2.5	3.0	3.5
81°	2.2	2.7	3.2	3.0	2.5	3.0	3.2	2.7	2.2	2.7	3.2
81.5°	2.2	2.5	3.0	2.7	2.2	2.7	3.0	2.5	2.2	2.5	3.0
82°	2.0	2.2	2.7	2.5	2.2	2.5	2.7	2.2	2.0	2.2	2.7
82.5°	1.7	2.0	2.5	2.2	2.0	2.2	2.5	2.0	1.7	2.0	2.5
83°	1.5	2.0	2.2	2.0	1.7	2.0	2.2	2.0	1.5	2.0	2.2
83.5°	1.5	1.7	2.0	2.0	1.5	2.0	2.0	1.7	1.5	1.7	2.0
84°	1.2	1.5	1.7	1.7	1.5	1.7	1.7	1.5	1.2	1.5	1.7
84.5°	1.0	1.2	1.5	1.5	1.2	1.5	1.5	1.2	1.0	1.2	1.5
85°	1.0	1.0	1.2	1.2	1.0	1.2	1.2	1.0	1.0	1.0	1.2
85.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	1.0
86°	0.5	0.7	1.0	1.0	0.7	1.0	1.0	0.7	0.5	0.7	1.0
86.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
87°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5
87.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
88°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
88.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P776206

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-3000K

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: P776206

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0
0.5°	1765.0	1764.5	1765.0	1764.2	1763.0	1762.3
1°	1764.5	1764.2	1764.5	1763.7	1762.8	1762.0
1.5°	1764.0	1763.7	1764.0	1763.3	1762.0	1761.3
2°	1763.3	1762.8	1763.3	1762.3	1761.0	1760.3
2.5°	1762.0	1761.8	1762.0	1761.3	1759.8	1759.1
3°	1760.8	1760.5	1760.8	1759.8	1758.6	1757.6
3.5°	1759.3	1759.1	1759.3	1758.3	1756.8	1755.8
4°	1757.6	1757.3	1757.6	1756.3	1754.9	1753.9
4.5°	1755.4	1755.1	1755.4	1754.1	1752.4	1751.6
5°	1753.1	1752.6	1753.1	1751.9	1749.9	1748.9
5.5°	1750.4	1749.7	1750.4	1749.2	1747.2	1746.2
6°	1747.5	1746.7	1747.5	1746.2	1744.0	1742.8
6.5°	1744.0	1743.0	1744.0	1743.0	1740.8	1739.3
7°	1740.0	1739.1	1740.0	1739.3	1737.1	1735.6
7.5°	1735.8	1734.6	1735.8	1735.3	1733.1	1731.4
8°	1731.4	1730.2	1731.4	1731.2	1728.9	1727.0
8.5°	1726.2	1725.0	1726.2	1726.5	1724.2	1722.3
9°	1721.0	1719.5	1721.0	1721.5	1719.3	1717.3
9.5°	1715.3	1713.9	1715.3	1716.3	1714.1	1712.1
10°	1709.7	1707.9	1709.7	1710.7	1708.9	1706.5
10.5°	1703.5	1701.8	1703.5	1704.7	1703.0	1700.5
11°	1697.1	1695.1	1697.1	1698.6	1697.1	1694.4
11.5°	1690.2	1688.2	1690.2	1691.9	1690.7	1687.9
12°	1683.2	1681.3	1683.2	1685.0	1684.0	1681.0
12.5°	1675.8	1673.6	1675.8	1677.8	1677.1	1673.9
13°	1668.2	1666.0	1668.2	1670.4	1669.7	1666.4
13.5°	1660.3	1657.8	1660.3	1662.5	1662.0	1658.8
14°	1652.1	1649.4	1652.1	1654.6	1654.3	1650.6
14.5°	1643.5	1640.8	1643.5	1646.2	1646.0	1642.5
15°	1634.6	1631.9	1634.6	1637.8	1637.6	1633.9
15.5°	1625.5	1622.5	1625.5	1628.7	1628.9	1625.0
16°	1616.1	1613.1	1616.1	1619.5	1619.8	1615.8
16.5°	1606.4	1603.2	1606.4	1609.9	1610.4	1606.4
17°	1596.3	1593.1	1596.3	1600.3	1600.8	1596.8
17.5°	1586.2	1582.7	1586.2	1590.1	1590.9	1586.7
18°	1575.6	1571.9	1575.6	1579.5	1580.5	1576.3
18.5°	1565.0	1560.8	1565.0	1569.1	1569.9	1565.7
19°	1553.8	1549.6	1553.8	1558.3	1559.3	1554.8
19.5°	1542.5	1538.0	1542.5	1546.9	1548.2	1543.5
20°	1531.1	1526.4	1531.1	1535.6	1536.8	1532.1
20.5°	1519.0	1514.3	1519.0	1524.0	1525.2	1520.5
21°	1506.9	1502.0	1506.9	1512.1	1513.1	1508.4



TEST NUMBER: P776206

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1469.1	1464.4	1469.1	1474.6	1475.8	1470.6
23°	1456.0	1451.4	1456.0	1461.7	1462.7	1457.5
23.5°	1443.0	1438.5	1443.0	1448.6	1449.6	1443.9
24°	1429.6	1425.2	1429.6	1435.3	1435.8	1430.4
24.5°	1416.3	1411.1	1416.3	1421.7	1422.0	1416.0
25°	1402.7	1396.8	1402.7	1407.6	1407.9	1401.5
25.5°	1388.4	1382.5	1388.4	1393.6	1393.6	1386.9
26°	1374.5	1367.6	1374.5	1379.2	1378.7	1371.6
26.5°	1360.0	1352.1	1360.0	1364.7	1363.7	1356.3
27°	1345.2	1336.0	1345.2	1349.9	1348.4	1340.2
27.5°	1329.9	1320.0	1329.9	1335.0	1332.8	1324.4
28°	1314.0	1302.9	1314.0	1320.0	1316.8	1307.9
28.5°	1298.0	1285.6	1298.0	1304.4	1300.5	1291.1
29°	1281.7	1268.4	1281.7	1289.1	1284.4	1273.5
29.5°	1264.7	1250.6	1264.7	1273.8	1267.9	1256.0
30°	1247.6	1232.8	1247.6	1257.7	1250.8	1238.5
30.5°	1230.1	1214.5	1230.1	1241.9	1233.5	1220.4
31°	1212.8	1196.2	1212.8	1225.6	1216.0	1201.7
31.5°	1195.0	1177.5	1195.0	1209.6	1198.5	1183.4
32°	1177.2	1158.5	1177.2	1193.3	1180.4	1164.6
32.5°	1158.7	1139.4	1158.7	1176.7	1162.2	1145.6
33°	1140.9	1120.4	1140.9	1159.9	1143.9	1126.4
33.5°	1122.7	1100.9	1122.7	1142.9	1125.9	1107.1
34°	1104.4	1081.2	1104.4	1125.6	1107.3	1087.1
34.5°	1086.1	1061.2	1086.1	1108.3	1088.6	1067.3
35°	1067.3	1041.4	1067.3	1091.0	1069.8	1046.8
35.5°	1048.8	1021.7	1048.8	1073.0	1051.3	1027.1
36°	1030.0	998.2	1030.0	1055.0	1032.3	1006.6
36.5°	1011.0	971.8	1011.0	1037.5	1012.8	984.6
37°	992.0	942.6	992.0	1019.4	993.7	958.2
37.5°	972.8	912.5	972.8	1001.6	974.2	923.6
38°	953.7	880.4	953.7	983.1	955.0	888.8
38.5°	932.7	847.5	932.7	965.3	935.5	850.3
39°	908.3	810.8	908.3	947.6	915.2	810.3
39.5°	880.9	772.0	880.9	930.0	885.8	768.5
40°	851.0	731.0	851.0	912.3	854.2	727.0
40.5°	819.1	690.5	819.1	894.7	818.4	685.5
41°	785.1	651.5	785.1	877.7	781.4	646.3
41.5°	749.3	612.7	749.3	861.1	743.3	607.3
42°	711.7	575.2	711.7	844.6	705.3	569.2
42.5°	674.2	537.1	674.2	828.3	667.8	531.2
43°	636.4	500.3	636.4	812.0	629.7	493.7
43.5°	599.4	463.3	599.4	795.9	592.7	455.9



TEST NUMBER: P776206

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	493.4	360.6	493.4	747.5	485.0	351.7
45.5°	458.3	329.2	458.3	731.5	449.7	319.1
46°	423.8	299.1	423.8	715.2	415.6	288.7
46.5°	390.2	268.4	390.2	698.4	382.5	258.8
47°	357.3	238.8	357.3	674.9	349.9	229.4
47.5°	326.7	212.4	326.7	646.3	318.6	201.3
48°	296.6	189.2	296.6	612.2	288.2	177.3
48.5°	267.5	167.4	267.5	576.1	259.3	155.3
49°	238.8	147.7	238.8	538.4	231.1	135.8
49.5°	213.1	129.2	213.1	499.6	204.0	118.8
50°	188.4	112.1	188.4	460.3	178.5	103.7
50.5°	165.7	96.1	165.7	421.6	155.6	89.6
51°	144.5	80.8	144.5	383.3	135.1	76.8
51.5°	125.2	67.9	125.2	347.5	117.1	66.4
52°	108.4	57.8	108.4	314.6	101.3	56.1
52.5°	92.9	50.9	92.9	282.5	87.2	47.2
53°	78.5	44.2	78.5	252.6	74.3	40.7
53.5°	65.2	37.3	65.2	223.2	63.5	34.8
54°	53.3	30.6	53.3	196.3	53.1	33.3
54.5°	44.2	29.1	44.2	170.6	44.5	31.9
55°	37.0	28.2	37.0	147.9	36.8	30.6
55.5°	31.9	26.9	31.9	127.4	31.4	29.4
56°	27.9	25.9	27.9	108.9	28.9	28.2
56.5°	25.9	24.9	25.9	92.4	27.7	26.9
57°	24.9	24.0	24.9	78.5	26.7	25.9
57.5°	24.0	23.0	24.0	66.4	25.7	24.7
58°	23.2	22.2	23.2	56.6	24.7	23.7
58.5°	22.2	21.2	22.2	47.7	23.7	22.7
59°	21.5	20.5	21.5	40.5	23.0	22.0
59.5°	20.7	19.8	20.7	34.3	22.2	21.0
60°	20.0	19.0	20.0	28.9	21.2	20.3
60.5°	19.3	18.0	19.3	25.7	20.5	19.3
61°	18.8	17.5	18.8	23.2	19.8	18.5
61.5°	18.0	16.8	18.0	21.2	19.0	17.8
62°	17.3	16.1	17.3	20.0	18.5	17.0
62.5°	16.8	15.6	16.8	19.0	17.8	16.3
63°	16.3	14.8	16.3	18.3	17.0	15.6
63.5°	15.6	14.3	15.6	17.5	16.5	15.1
64°	15.1	13.6	15.1	17.0	15.8	14.3
64.5°	14.6	13.1	14.6	16.3	15.3	13.8
65°	14.1	12.6	14.1	15.8	14.8	13.1
65.5°	13.6	12.1	13.6	15.1	14.1	12.6
66°	13.1	11.6	13.1	14.6	13.6	12.1



TEST NUMBER: P776206

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	11.6	10.1	11.6	13.1	12.1	10.6
68°	11.1	9.9	11.1	12.6	11.6	10.1
68.5°	10.9	9.4	10.9	12.1	11.1	9.6
69°	10.4	8.9	10.4	11.6	10.6	9.4
69.5°	9.9	8.6	9.9	11.1	10.4	8.9
70°	9.6	8.1	9.6	10.6	9.9	8.4
70.5°	9.1	7.9	9.1	10.4	9.4	8.1
71°	8.9	7.7	8.9	9.9	9.1	7.7
71.5°	8.4	7.2	8.4	9.4	8.6	7.4
72°	8.1	6.9	8.1	9.1	8.4	6.9
72.5°	7.7	6.7	7.7	8.6	7.9	6.7
73°	7.4	6.2	7.4	8.1	7.7	6.4
73.5°	7.2	5.9	7.2	7.9	7.2	5.9
74°	6.7	5.7	6.7	7.4	6.9	5.7
74.5°	6.4	5.4	6.4	7.2	6.7	5.4
75°	6.2	5.2	6.2	6.7	6.2	5.2
75.5°	5.9	4.9	5.9	6.4	5.9	4.9
76°	5.4	4.7	5.4	6.2	5.7	4.7
76.5°	5.2	4.4	5.2	5.7	5.2	4.4
77°	4.9	4.2	4.9	5.4	4.9	4.0
77.5°	4.7	4.0	4.7	5.2	4.7	3.7
78°	4.4	3.7	4.4	4.7	4.4	3.7
78.5°	4.2	3.5	4.2	4.4	4.2	3.5
79°	4.0	3.2	4.0	4.2	4.0	3.2
79.5°	3.7	3.0	3.7	4.0	3.5	3.0
80°	3.5	3.0	3.5	3.7	3.2	2.7
80.5°	3.2	2.7	3.2	3.5	3.0	2.5
81°	3.0	2.5	3.0	3.2	2.7	2.2
81.5°	2.7	2.2	2.7	3.0	2.5	2.2
82°	2.5	2.2	2.5	2.7	2.2	2.0
82.5°	2.2	2.0	2.2	2.5	2.0	1.7
83°	2.0	1.7	2.0	2.2	2.0	1.5
83.5°	2.0	1.5	2.0	2.0	1.7	1.5
84°	1.7	1.5	1.7	1.7	1.5	1.2
84.5°	1.5	1.2	1.5	1.5	1.2	1.0
85°	1.2	1.0	1.2	1.2	1.0	1.0
85.5°	1.0	1.0	1.0	1.0	0.7	0.7
86°	1.0	0.7	1.0	1.0	0.7	0.5
86.5°	0.7	0.7	0.7	0.7	0.5	0.5
87°	0.5	0.5	0.5	0.5	0.5	0.2
87.5°	0.5	0.5	0.5	0.5	0.2	0.2
88°	0.2	0.2	0.2	0.2	0.2	0.2
88.5°	0.2	0.2	0.2	0.2	0.0	0.0



TEST NUMBER: P776206

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQH-2500lm-3000K

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





21.5°	1496.3	1501.0	1499.8	1494.6	1489.9	1494.6	1499.8	1501.0	1496.3	1501.0	1499.8
22°	1483.2	1488.6	1487.2	1482.0	1477.0	1482.0	1487.2	1488.6	1483.2	1488.6	1487.2



44°	419.6	556.6	779.6	563.8	427.2	563.8	779.6	556.6	419.6	556.6	779.6
44.5°	385.5	521.3	763.8	528.5	391.9	528.5	763.8	521.3	385.5	521.3	763.8



66.5°	11.6	13.1	14.1	12.6	11.1	12.6	14.1	13.1	11.6	13.1	14.1
67°	11.1	12.6	13.6	12.1	10.6	12.1	13.6	12.6	11.1	12.6	13.6



89°	0.0	0.0	0.0	0.0	0.2	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°	1494.6	1489.9	1494.6	1499.8	1501.0	1496.3
22°	1482.0	1477.0	1482.0	1487.2	1488.6	1483.2

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44°	563.8	427.2	563.8	779.6	556.6	419.6
44.5°	528.5	391.9	528.5	763.8	521.3	385.5



66.5°	12.6	11.1	12.6	14.1	13.1	11.6
67°	12.1	10.6	12.1	13.6	12.6	11.1

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89°	0.0	0.2	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)