

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: P775973

Luminaire Tested: HCDJBL51525CSD-HCD42TRMW-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156A001)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD42TRMW-2500lm-4000K
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

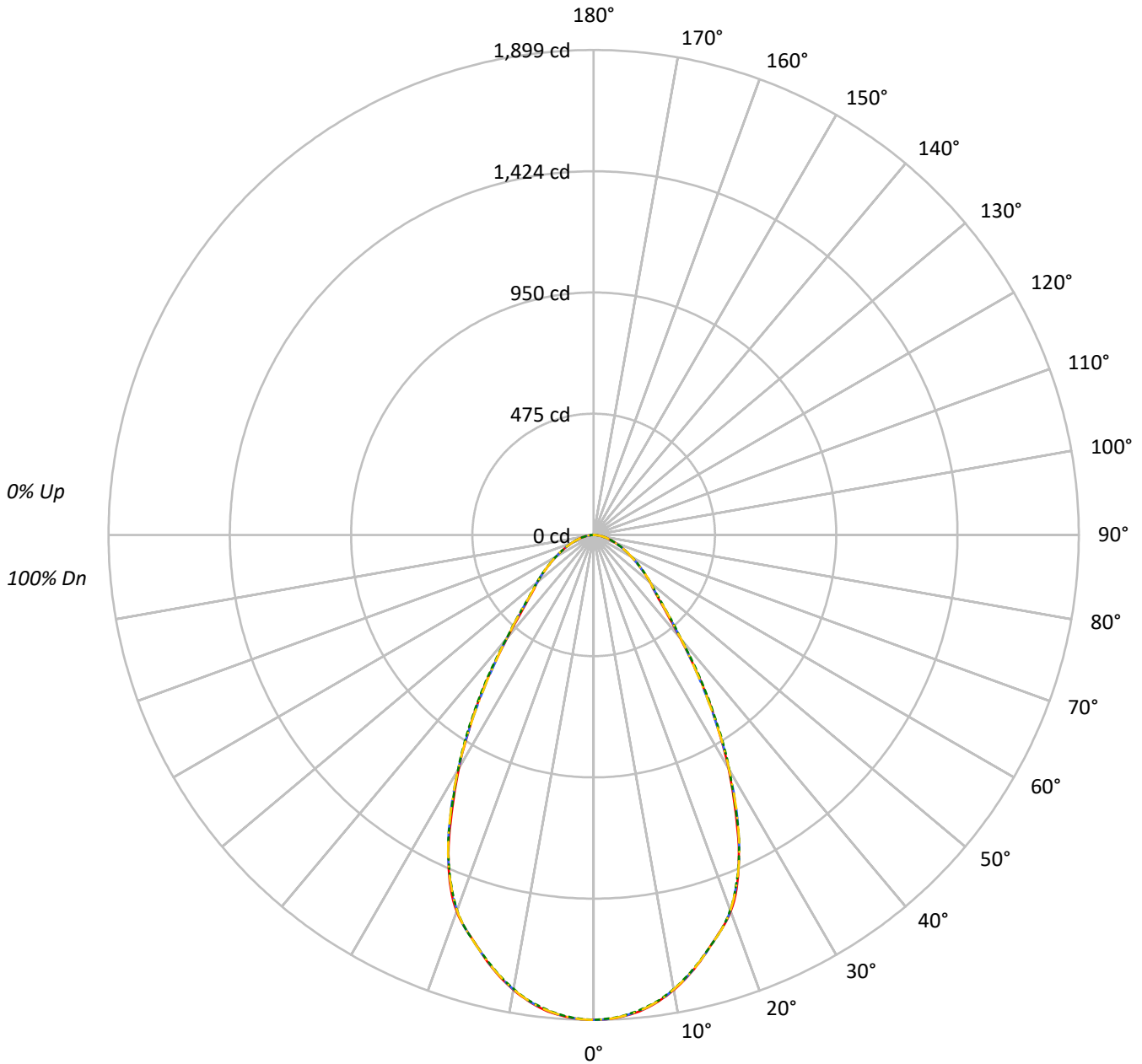
Lumens per Lamp: N/A
Luminaire Lumens: 2452.2 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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								
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64								
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53								
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49								
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45								
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42								
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	239001	239001	239001	239001
5°	237312	236794	237312	236794
10°	231174	230663	231174	230663
15°	220958	220684	220958	220684
20°	210091	209341	210091	209341
25°	186475	187072	186475	187072
30°	153413	154227	153413	154227
35°	119020	120311	119020	120311
40°	86447	87958	86447	87958
45°	65460	67080	65460	67080
50°	56367	56818	56367	56818
55°	48995	49543	48995	49543
60°	42814	43217	42814	43217
65°	37640	37938	37640	37938
70°	33227	33411	33227	33411
75°	29175	29175	29175	29175
80°	25221	25076	25221	25076
85°	20216	20216	20216	20216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 67080 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	7.2
10°-20°	476.4	19.4
20°-30°	610.1	24.9
30°-40°	483.4	19.7
40°-50°	296.0	12.1
50°-60°	202.3	8.3
60°-70°	126.7	5.2
70°-80°	64.2	2.6
80°-90°	16.2	0.7
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°	1263.4	51.5
0°-40°	1746.8	71.2
0°-60°	2245.1	91.6
0°-90°	2452.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1899	1899	1899	1899	1899	
5°	1878	1874	1878	1874	1878	177
15°	1696	1694	1696	1694	1696	477
25°	1343	1347	1343	1347	1343	609
35°	775	783	775	783	775	483
45°	368	377	368	377	368	292
55°	223	226	223	226	223	201
65°	126	127	126	127	126	126
75°	60	60	60	60	60	64
85°	14	14	14	14	14	16
90°	0	1	0	1	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°	1899.1	1899.1	1899.1	1899.1	1899.1	1899.1	1899.1	1899.1	1899.1	1899.1	1899.1
0.5°	1899.3	1899.1	1898.6	1898.3	1897.5	1898.3	1898.6	1899.1	1899.3	1899.1	1898.6
1°	1898.6	1898.3	1898.1	1897.8	1896.8	1897.8	1898.1	1898.3	1898.6	1898.3	1898.1
1.5°	1897.5	1897.0	1897.0	1896.5	1895.8	1896.5	1897.0	1897.0	1897.5	1897.0	1897.0
2°	1896.0	1895.8	1895.3	1895.0	1894.0	1895.0	1895.3	1895.8	1896.0	1895.8	1895.3
2.5°	1894.2	1893.7	1893.2	1893.0	1891.7	1893.0	1893.2	1893.7	1894.2	1893.7	1893.2
3°	1891.7	1891.2	1890.7	1890.2	1888.9	1890.2	1890.7	1891.2	1891.7	1891.2	1890.7
3.5°	1888.9	1888.4	1887.6	1887.1	1886.4	1887.1	1887.6	1888.4	1888.9	1888.4	1887.6
4°	1885.6	1885.3	1884.3	1883.8	1882.5	1883.8	1884.3	1885.3	1885.6	1885.3	1884.3
4.5°	1882.0	1881.5	1880.5	1880.0	1878.5	1880.0	1880.5	1881.5	1882.0	1881.5	1880.5
5°	1878.5	1877.7	1876.7	1876.2	1874.4	1876.2	1876.7	1877.7	1878.5	1877.7	1876.7
5.5°	1874.7	1872.9	1871.6	1871.1	1869.6	1871.1	1871.6	1872.9	1874.7	1872.9	1871.6
6°	1868.8	1867.8	1866.5	1865.8	1863.7	1865.8	1866.5	1867.8	1868.8	1867.8	1866.5
6.5°	1863.0	1862.2	1860.7	1859.9	1857.9	1859.9	1860.7	1862.2	1863.0	1862.2	1860.7
7°	1856.9	1855.8	1855.1	1853.8	1852.0	1853.8	1855.1	1855.8	1856.9	1855.8	1855.1
7.5°	1850.0	1849.0	1848.0	1847.4	1845.7	1847.4	1848.0	1849.0	1850.0	1849.0	1848.0
8°	1842.6	1841.8	1840.8	1840.1	1839.1	1840.1	1840.8	1841.8	1842.6	1841.8	1840.8
8.5°	1835.0	1834.0	1832.9	1832.2	1831.2	1832.2	1832.9	1834.0	1835.0	1834.0	1832.9
9°	1826.8	1826.1	1824.8	1824.0	1823.0	1824.0	1824.8	1826.1	1826.8	1826.1	1824.8
9.5°	1817.9	1817.4	1816.2	1815.4	1814.4	1815.4	1816.2	1817.4	1817.9	1817.4	1816.2
10°	1809.0	1808.3	1807.3	1806.2	1805.0	1806.2	1807.3	1808.3	1809.0	1808.3	1807.3
10.5°	1799.1	1798.6	1797.3	1796.6	1795.6	1796.6	1797.3	1798.6	1799.1	1798.6	1797.3
11°	1789.2	1788.7	1787.7	1786.7	1785.4	1786.7	1787.7	1788.7	1789.2	1788.7	1787.7
11.5°	1778.8	1778.3	1777.2	1776.2	1775.2	1776.2	1777.2	1778.3	1778.8	1778.3	1777.2
12°	1768.1	1767.6	1766.8	1765.5	1764.5	1765.5	1766.8	1767.6	1768.1	1767.6	1766.8
12.5°	1756.9	1756.4	1755.6	1754.4	1753.1	1754.4	1755.6	1756.4	1756.9	1756.4	1755.6
13°	1745.5	1744.9	1744.2	1743.2	1741.9	1743.2	1744.2	1744.9	1745.5	1744.9	1744.2
13.5°	1733.5	1733.0	1732.5	1731.5	1730.5	1731.5	1732.5	1733.0	1733.5	1733.0	1732.5
14°	1721.3	1721.0	1720.5	1719.5	1718.5	1719.5	1720.5	1721.0	1721.3	1721.0	1720.5
14.5°	1708.6	1708.3	1708.1	1707.1	1706.0	1707.1	1708.1	1708.3	1708.6	1708.3	1708.1
15°	1695.9	1695.9	1695.4	1694.8	1693.8	1694.8	1695.4	1695.9	1695.9	1695.9	1695.4
15.5°	1682.6	1682.6	1683.1	1682.6	1682.1	1682.6	1683.1	1682.6	1682.6	1682.6	1683.1
16°	1669.9	1670.2	1670.9	1670.7	1670.2	1670.7	1670.9	1670.2	1669.9	1670.2	1670.9
16.5°	1657.2	1657.7	1658.7	1658.7	1658.5	1658.7	1658.7	1657.7	1657.2	1657.7	1658.7
17°	1645.3	1645.8	1646.8	1646.5	1646.8	1646.5	1646.8	1645.8	1645.3	1645.8	1646.8
17.5°	1633.6	1634.1	1634.8	1634.6	1634.3	1634.6	1634.8	1634.1	1633.6	1634.1	1634.8
18°	1622.1	1622.4	1622.9	1622.4	1621.9	1622.4	1622.9	1622.4	1622.1	1622.4	1622.9
18.5°	1609.9	1609.9	1609.9	1609.4	1608.6	1609.4	1609.9	1609.9	1609.9	1609.9	1609.9
19°	1597.4	1596.7	1596.2	1595.4	1594.6	1595.4	1596.2	1596.7	1597.4	1596.7	1596.2
19.5°	1583.7	1582.7	1581.2	1580.7	1579.9	1580.7	1581.2	1582.7	1583.7	1582.7	1581.2
20°	1568.7	1567.4	1564.6	1564.9	1563.1	1564.9	1564.6	1567.4	1568.7	1567.4	1564.6
20.5°	1552.2	1550.1	1546.8	1547.8	1545.8	1547.8	1546.8	1550.1	1552.2	1550.1	1546.8
21°	1534.9	1531.8	1528.0	1529.3	1526.7	1529.3	1528.0	1531.8	1534.9	1531.8	1528.0



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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°	1471.5	1468.5	1466.0	1465.7	1464.4	1465.7	1466.0	1468.5	1471.5	1468.5	1466.0
23°	1447.4	1444.8	1444.3	1442.6	1442.0	1442.6	1444.3	1444.8	1447.4	1444.8	1444.3
23.5°	1422.7	1420.4	1421.7	1418.6	1419.9	1418.6	1421.7	1420.4	1422.7	1420.4	1421.7
24°	1397.0	1395.2	1398.3	1394.2	1396.5	1394.2	1398.3	1395.2	1397.0	1395.2	1398.3
24.5°	1370.6	1369.8	1373.6	1369.6	1372.6	1369.6	1373.6	1369.8	1370.6	1369.8	1373.6
25°	1342.9	1343.4	1347.9	1344.9	1347.2	1344.9	1347.9	1343.4	1342.9	1343.4	1347.9
25.5°	1314.1	1317.4	1321.5	1320.2	1320.7	1320.2	1321.5	1317.4	1314.1	1317.4	1321.5
26°	1284.6	1290.5	1294.3	1294.5	1292.5	1294.5	1294.3	1290.5	1284.6	1290.5	1294.3
26.5°	1254.3	1263.0	1266.0	1267.8	1263.3	1267.8	1266.0	1263.0	1254.3	1263.0	1266.0
27°	1224.8	1234.5	1237.6	1240.4	1233.5	1240.4	1237.6	1234.5	1224.8	1234.5	1237.6
27.5°	1195.9	1205.0	1208.6	1212.1	1203.2	1212.1	1208.6	1205.0	1195.9	1205.0	1208.6
28°	1166.9	1175.5	1179.1	1182.6	1173.0	1182.6	1179.1	1175.5	1166.9	1175.5	1179.1
28.5°	1138.6	1145.5	1149.6	1152.6	1143.7	1152.6	1149.6	1145.5	1138.6	1145.5	1149.6
29°	1110.7	1115.2	1120.1	1122.1	1116.0	1122.1	1120.1	1115.2	1110.7	1115.2	1120.1
29.5°	1083.2	1085.5	1090.8	1091.6	1088.8	1091.6	1090.8	1085.5	1083.2	1085.5	1090.8
30°	1055.7	1055.0	1060.8	1061.1	1061.3	1061.1	1060.8	1055.0	1055.7	1055.0	1060.8
30.5°	1027.2	1025.5	1031.0	1031.6	1035.4	1031.6	1031.0	1025.5	1027.2	1025.5	1031.0
31°	999.0	995.2	1001.0	1002.1	1007.9	1002.1	1001.0	995.2	999.0	995.2	1001.0
31.5°	970.0	966.2	971.0	972.8	980.2	972.8	971.0	966.2	970.0	966.2	971.0
32°	940.5	936.9	941.3	944.1	951.7	944.1	941.3	936.9	940.5	936.9	941.3
32.5°	912.0	909.0	912.0	915.6	923.2	915.6	912.0	909.0	912.0	909.0	912.0
33°	883.3	881.0	882.0	887.1	894.2	887.1	882.0	881.0	883.3	881.0	882.0
33.5°	857.6	853.0	852.3	858.6	865.0	858.6	852.3	853.0	857.6	853.0	852.3
34°	829.9	825.0	822.8	830.6	837.2	830.6	822.8	825.0	829.9	825.0	822.8
34.5°	802.4	797.3	794.0	802.4	809.8	802.4	794.0	797.3	802.4	797.3	794.0
35°	774.7	770.4	766.8	775.2	783.1	775.2	766.8	770.4	774.7	770.4	766.8
35.5°	747.7	743.7	739.8	748.2	756.9	748.2	739.8	743.7	747.7	743.7	739.8
36°	721.3	717.0	713.6	722.3	731.2	722.3	713.6	717.0	721.3	717.0	713.6
36.5°	695.1	691.3	688.2	696.6	705.0	696.6	688.2	691.3	695.1	691.3	688.2
37°	668.6	665.8	663.3	671.7	679.1	671.7	663.3	665.8	668.6	665.8	663.3
37.5°	642.9	641.2	639.4	647.8	653.1	647.8	639.4	641.2	642.9	641.2	639.4
38°	617.5	617.3	616.5	624.4	627.4	624.4	616.5	617.3	617.5	617.3	616.5
38.5°	593.6	594.1	594.6	601.5	602.8	601.5	594.6	594.1	593.6	594.1	594.6
39°	570.5	571.7	572.7	579.4	579.1	579.4	572.7	571.7	570.5	571.7	572.7
39.5°	547.8	550.1	551.9	557.5	556.7	557.5	551.9	550.1	547.8	550.1	551.9
40°	526.2	528.7	531.8	536.4	535.4	536.4	531.8	528.7	526.2	528.7	531.8
40.5°	505.9	508.4	512.5	515.8	515.5	515.8	512.5	508.4	505.9	508.4	512.5
41°	486.3	488.8	494.2	496.4	497.2	496.4	494.2	488.8	486.3	488.8	494.2
41.5°	467.7	470.5	476.6	477.9	480.2	477.9	476.6	470.5	467.7	470.5	476.6
42°	450.4	453.2	459.8	460.6	463.6	460.6	459.8	453.2	450.4	453.2	459.8
42.5°	434.1	436.9	444.1	444.3	447.6	444.3	444.1	436.9	434.1	436.9	444.1
43°	418.6	421.7	428.5	429.1	432.1	429.1	428.5	421.7	418.6	421.7	428.5
43.5°	404.4	407.4	414.0	414.3	417.1	414.3	414.0	407.4	404.4	407.4	414.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	367.8	370.3	374.4	375.6	376.9	375.6	374.4	370.3	367.8	370.3	374.4
45.5°	357.1	359.1	362.9	364.2	365.2	364.2	362.9	359.1	357.1	359.1	362.9
46°	346.9	348.7	352.0	353.8	354.3	353.8	352.0	348.7	346.9	348.7	352.0
46.5°	337.5	339.0	341.6	343.6	344.1	343.6	341.6	339.0	337.5	339.0	341.6
47°	328.6	329.6	332.2	334.2	335.0	334.2	332.2	329.6	328.6	329.6	332.2
47.5°	320.2	321.0	323.3	325.5	326.6	325.5	323.3	321.0	320.2	321.0	323.3
48°	312.3	313.3	315.6	317.7	318.7	317.7	315.6	313.3	312.3	313.3	315.6
48.5°	306.0	306.5	308.2	310.3	311.0	310.3	308.2	306.5	306.0	306.5	308.2
49°	299.9	300.1	301.6	303.2	303.9	303.2	301.6	300.1	299.9	300.1	301.6
49.5°	294.0	294.3	295.3	296.5	296.8	296.5	295.3	294.3	294.0	294.3	295.3
50°	287.9	288.2	288.9	289.9	290.2	289.9	288.9	288.2	287.9	288.2	288.9
50.5°	281.8	282.1	282.6	283.6	283.6	283.6	282.6	282.1	281.8	282.1	282.6
51°	274.9	275.4	276.2	277.2	277.2	277.2	276.2	275.4	274.9	275.4	276.2
51.5°	268.3	268.6	269.6	270.9	271.1	270.9	269.6	268.6	268.3	268.6	269.6
52°	261.4	262.0	263.0	264.2	264.5	264.2	263.0	262.0	261.4	262.0	263.0
52.5°	254.6	255.1	256.4	257.4	257.9	257.4	256.4	255.1	254.6	255.1	256.4
53°	248.2	248.7	249.8	250.8	251.3	250.8	249.8	248.7	248.2	248.7	249.8
53.5°	241.6	242.1	243.1	244.4	244.9	244.4	243.1	242.1	241.6	242.1	243.1
54°	235.5	235.8	236.8	237.8	238.3	237.8	236.8	235.8	235.5	235.8	236.8
54.5°	229.4	229.7	230.7	231.7	232.2	231.7	230.7	229.7	229.4	229.7	230.7
55°	223.3	223.8	224.8	225.6	225.8	225.6	224.8	223.8	223.3	223.8	224.8
55.5°	217.5	218.0	219.0	219.7	220.0	219.7	219.0	218.0	217.5	218.0	219.0
56°	211.9	212.4	213.1	213.9	214.1	213.9	213.1	212.4	211.9	212.4	213.1
56.5°	206.3	206.8	207.5	208.3	208.5	208.3	207.5	206.8	206.3	206.8	207.5
57°	200.7	201.2	201.9	202.7	203.0	202.7	201.9	201.2	200.7	201.2	201.9
57.5°	195.1	195.8	196.6	197.1	197.6	197.1	196.6	195.8	195.1	195.8	196.6
58°	190.2	190.5	191.3	192.0	192.3	192.0	191.3	190.5	190.2	190.5	191.3
58.5°	185.2	185.4	186.2	186.7	186.9	186.7	186.2	185.4	185.2	185.4	186.2
59°	180.1	180.3	180.8	181.3	181.8	181.3	180.8	180.3	180.1	180.3	180.8
59.5°	175.0	175.2	175.7	176.5	176.8	176.5	175.7	175.2	175.0	175.2	175.7
60°	170.1	170.4	170.9	171.4	171.7	171.4	170.9	170.4	170.1	170.4	170.9
60.5°	165.3	165.6	166.1	166.6	166.8	166.6	166.1	165.6	165.3	165.6	166.1
61°	160.7	161.0	161.5	162.0	162.3	162.0	161.5	161.0	160.7	161.0	161.5
61.5°	156.2	156.4	156.9	157.4	157.7	157.4	156.9	156.4	156.2	156.4	156.9
62°	151.8	151.8	152.3	152.9	152.9	152.9	152.3	151.8	151.8	151.8	152.3
62.5°	147.3	147.5	147.8	148.3	148.5	148.3	147.8	147.5	147.3	147.5	147.8
63°	142.9	143.2	143.4	144.0	144.0	144.0	143.4	143.2	142.9	143.2	143.4
63.5°	138.6	138.9	139.1	139.6	139.9	139.6	139.1	138.9	138.6	138.9	139.1
64°	134.5	134.8	135.0	135.3	135.6	135.3	135.0	134.8	134.5	134.8	135.0
64.5°	130.5	130.7	131.0	131.2	131.5	131.2	131.0	130.7	130.5	130.7	131.0
65°	126.4	126.7	126.9	127.2	127.4	127.2	126.9	126.7	126.4	126.7	126.9
65.5°	122.6	122.6	122.8	123.3	123.3	123.3	122.8	122.6	122.6	122.6	122.8
66°	118.5	118.8	119.0	119.3	119.5	119.3	119.0	118.8	118.5	118.8	119.0



TEST NUMBER: P775973

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	107.3	107.6	107.8	108.1	108.1	108.1	107.8	107.6	107.3	107.6	107.8
68°	103.8	104.0	104.3	104.5	104.5	104.5	104.3	104.0	103.8	104.0	104.3
68.5°	100.2	100.5	100.7	100.7	101.0	100.7	100.7	100.5	100.2	100.5	100.7
69°	96.9	96.9	96.9	97.4	97.4	97.4	96.9	96.9	96.9	96.9	96.9
69.5°	93.3	93.6	93.6	93.8	94.1	93.8	93.6	93.6	93.3	93.6	93.6
70°	90.3	90.5	90.3	90.5	90.8	90.5	90.3	90.5	90.3	90.5	90.3
70.5°	87.0	87.2	87.2	87.2	87.5	87.2	87.2	87.2	87.0	87.2	87.2
71°	83.9	83.9	83.9	83.9	84.2	83.9	83.9	83.9	83.9	83.9	83.9
71.5°	80.6	80.6	80.9	80.9	80.9	80.9	80.9	80.6	80.6	80.6	80.9
72°	77.6	77.6	77.6	77.8	77.8	77.8	77.6	77.6	77.6	77.6	77.6
72.5°	74.5	74.5	74.5	74.8	74.8	74.8	74.5	74.5	74.5	74.5	74.5
73°	71.5	71.5	71.5	71.7	71.7	71.7	71.5	71.5	71.5	71.5	71.5
73.5°	68.4	68.4	68.7	68.7	68.7	68.7	68.7	68.4	68.4	68.4	68.7
74°	65.6	65.6	65.6	65.9	65.9	65.9	65.6	65.6	65.6	65.6	65.6
74.5°	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
75°	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
75.5°	57.2	57.2	57.2	57.2	57.5	57.2	57.2	57.2	57.2	57.2	57.2
76°	54.7	54.4	54.4	54.7	54.7	54.7	54.4	54.4	54.7	54.4	54.4
76.5°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
77°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
77.5°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
78°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
78.5°	42.0	42.0	41.7	41.7	42.0	41.7	41.7	42.0	42.0	42.0	41.7
79°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
79.5°	37.1	37.1	36.9	37.1	37.1	37.1	36.9	37.1	37.1	37.1	36.9
80°	34.8	34.8	34.6	34.6	34.6	34.6	34.6	34.8	34.8	34.8	34.6
80.5°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
81°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
81.5°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
82°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
82.5°	23.9	23.9	23.9	23.9	23.7	23.9	23.9	23.9	23.9	23.9	23.9
83°	21.9	21.9	21.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9
83.5°	19.8	19.8	19.8	19.6	19.6	19.6	19.8	19.8	19.8	19.8	19.8
84°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
84.5°	16.0	15.8	15.8	15.8	15.8	15.8	15.8	15.8	16.0	15.8	15.8
85°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
85.5°	12.2	12.0	12.2	12.0	12.2	12.0	12.2	12.0	12.2	12.0	12.2
86°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
86.5°	8.6	8.4	8.4	8.4	8.6	8.4	8.4	8.4	8.6	8.4	8.4
87°	6.9	6.9	6.9	6.6	6.9	6.6	6.9	6.9	6.9	6.9	6.9
87.5°	5.1	5.1	5.1	5.1	5.3	5.1	5.1	5.1	5.1	5.1	5.1
88°	3.3	3.6	3.6	3.8	3.8	3.8	3.6	3.6	3.3	3.6	3.6
88.5°	2.0	2.0	2.3	2.5	3.1	2.5	2.3	2.0	2.0	2.0	2.3



TEST NUMBER: P775973
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-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	0.5	0.8	0.5	0.3	0.0	0.0	0.0	0.3



TEST NUMBER: P775973

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1899.1	1899.1	1899.1	1899.1	1899.1	1899.1
0.5°	1898.3	1897.5	1898.3	1898.6	1899.1	1899.3
1°	1897.8	1896.8	1897.8	1898.1	1898.3	1898.6
1.5°	1896.5	1895.8	1896.5	1897.0	1897.0	1897.5
2°	1895.0	1894.0	1895.0	1895.3	1895.8	1896.0
2.5°	1893.0	1891.7	1893.0	1893.2	1893.7	1894.2
3°	1890.2	1888.9	1890.2	1890.7	1891.2	1891.7
3.5°	1887.1	1886.4	1887.1	1887.6	1888.4	1888.9
4°	1883.8	1882.5	1883.8	1884.3	1885.3	1885.6
4.5°	1880.0	1878.5	1880.0	1880.5	1881.5	1882.0
5°	1876.2	1874.4	1876.2	1876.7	1877.7	1878.5
5.5°	1871.1	1869.6	1871.1	1871.6	1872.9	1874.7
6°	1865.8	1863.7	1865.8	1866.5	1867.8	1868.8
6.5°	1859.9	1857.9	1859.9	1860.7	1862.2	1863.0
7°	1853.8	1852.0	1853.8	1855.1	1855.8	1856.9
7.5°	1847.4	1845.7	1847.4	1848.0	1849.0	1850.0
8°	1840.1	1839.1	1840.1	1840.8	1841.8	1842.6
8.5°	1832.2	1831.2	1832.2	1832.9	1834.0	1835.0
9°	1824.0	1823.0	1824.0	1824.8	1826.1	1826.8
9.5°	1815.4	1814.4	1815.4	1816.2	1817.4	1817.9
10°	1806.2	1805.0	1806.2	1807.3	1808.3	1809.0
10.5°	1796.6	1795.6	1796.6	1797.3	1798.6	1799.1
11°	1786.7	1785.4	1786.7	1787.7	1788.7	1789.2
11.5°	1776.2	1775.2	1776.2	1777.2	1778.3	1778.8
12°	1765.5	1764.5	1765.5	1766.8	1767.6	1768.1
12.5°	1754.4	1753.1	1754.4	1755.6	1756.4	1756.9
13°	1743.2	1741.9	1743.2	1744.2	1744.9	1745.5
13.5°	1731.5	1730.5	1731.5	1732.5	1733.0	1733.5
14°	1719.5	1718.5	1719.5	1720.5	1721.0	1721.3
14.5°	1707.1	1706.0	1707.1	1708.1	1708.3	1708.6
15°	1694.8	1693.8	1694.8	1695.4	1695.9	1695.9
15.5°	1682.6	1682.1	1682.6	1683.1	1682.6	1682.6
16°	1670.7	1670.2	1670.7	1670.9	1670.2	1669.9
16.5°	1658.7	1658.5	1658.7	1658.7	1657.7	1657.2
17°	1646.5	1646.8	1646.5	1646.8	1645.8	1645.3
17.5°	1634.6	1634.3	1634.6	1634.8	1634.1	1633.6
18°	1622.4	1621.9	1622.4	1622.9	1622.4	1622.1
18.5°	1609.4	1608.6	1609.4	1609.9	1609.9	1609.9
19°	1595.4	1594.6	1595.4	1596.2	1596.7	1597.4
19.5°	1580.7	1579.9	1580.7	1581.2	1582.7	1583.7
20°	1564.9	1563.1	1564.9	1564.6	1567.4	1568.7
20.5°	1547.8	1545.8	1547.8	1546.8	1550.1	1552.2
21°	1529.3	1526.7	1529.3	1528.0	1531.8	1534.9

TEST NUMBER: P775973

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1465.7	1464.4	1465.7	1466.0	1468.5	1471.5
23°	1442.6	1442.0	1442.6	1444.3	1444.8	1447.4
23.5°	1418.6	1419.9	1418.6	1421.7	1420.4	1422.7
24°	1394.2	1396.5	1394.2	1398.3	1395.2	1397.0
24.5°	1369.6	1372.6	1369.6	1373.6	1369.8	1370.6
25°	1344.9	1347.2	1344.9	1347.9	1343.4	1342.9
25.5°	1320.2	1320.7	1320.2	1321.5	1317.4	1314.1
26°	1294.5	1292.5	1294.5	1294.3	1290.5	1284.6
26.5°	1267.8	1263.3	1267.8	1266.0	1263.0	1254.3
27°	1240.4	1233.5	1240.4	1237.6	1234.5	1224.8
27.5°	1212.1	1203.2	1212.1	1208.6	1205.0	1195.9
28°	1182.6	1173.0	1182.6	1179.1	1175.5	1166.9
28.5°	1152.6	1143.7	1152.6	1149.6	1145.5	1138.6
29°	1122.1	1116.0	1122.1	1120.1	1115.2	1110.7
29.5°	1091.6	1088.8	1091.6	1090.8	1085.5	1083.2
30°	1061.1	1061.3	1061.1	1060.8	1055.0	1055.7
30.5°	1031.6	1035.4	1031.6	1031.0	1025.5	1027.2
31°	1002.1	1007.9	1002.1	1001.0	995.2	999.0
31.5°	972.8	980.2	972.8	971.0	966.2	970.0
32°	944.1	951.7	944.1	941.3	936.9	940.5
32.5°	915.6	923.2	915.6	912.0	909.0	912.0
33°	887.1	894.2	887.1	882.0	881.0	883.3
33.5°	858.6	865.0	858.6	852.3	853.0	857.6
34°	830.6	837.2	830.6	822.8	825.0	829.9
34.5°	802.4	809.8	802.4	794.0	797.3	802.4
35°	775.2	783.1	775.2	766.8	770.4	774.7
35.5°	748.2	756.9	748.2	739.8	743.7	747.7
36°	722.3	731.2	722.3	713.6	717.0	721.3
36.5°	696.6	705.0	696.6	688.2	691.3	695.1
37°	671.7	679.1	671.7	663.3	665.8	668.6
37.5°	647.8	653.1	647.8	639.4	641.2	642.9
38°	624.4	627.4	624.4	616.5	617.3	617.5
38.5°	601.5	602.8	601.5	594.6	594.1	593.6
39°	579.4	579.1	579.4	572.7	571.7	570.5
39.5°	557.5	556.7	557.5	551.9	550.1	547.8
40°	536.4	535.4	536.4	531.8	528.7	526.2
40.5°	515.8	515.5	515.8	512.5	508.4	505.9
41°	496.4	497.2	496.4	494.2	488.8	486.3
41.5°	477.9	480.2	477.9	476.6	470.5	467.7
42°	460.6	463.6	460.6	459.8	453.2	450.4
42.5°	444.3	447.6	444.3	444.1	436.9	434.1
43°	429.1	432.1	429.1	428.5	421.7	418.6
43.5°	414.3	417.1	414.3	414.0	407.4	404.4



TEST NUMBER: P775973

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	375.6	376.9	375.6	374.4	370.3	367.8
45.5°	364.2	365.2	364.2	362.9	359.1	357.1
46°	353.8	354.3	353.8	352.0	348.7	346.9
46.5°	343.6	344.1	343.6	341.6	339.0	337.5
47°	334.2	335.0	334.2	332.2	329.6	328.6
47.5°	325.5	326.6	325.5	323.3	321.0	320.2
48°	317.7	318.7	317.7	315.6	313.3	312.3
48.5°	310.3	311.0	310.3	308.2	306.5	306.0
49°	303.2	303.9	303.2	301.6	300.1	299.9
49.5°	296.5	296.8	296.5	295.3	294.3	294.0
50°	289.9	290.2	289.9	288.9	288.2	287.9
50.5°	283.6	283.6	283.6	282.6	282.1	281.8
51°	277.2	277.2	277.2	276.2	275.4	274.9
51.5°	270.9	271.1	270.9	269.6	268.6	268.3
52°	264.2	264.5	264.2	263.0	262.0	261.4
52.5°	257.4	257.9	257.4	256.4	255.1	254.6
53°	250.8	251.3	250.8	249.8	248.7	248.2
53.5°	244.4	244.9	244.4	243.1	242.1	241.6
54°	237.8	238.3	237.8	236.8	235.8	235.5
54.5°	231.7	232.2	231.7	230.7	229.7	229.4
55°	225.6	225.8	225.6	224.8	223.8	223.3
55.5°	219.7	220.0	219.7	219.0	218.0	217.5
56°	213.9	214.1	213.9	213.1	212.4	211.9
56.5°	208.3	208.5	208.3	207.5	206.8	206.3
57°	202.7	203.0	202.7	201.9	201.2	200.7
57.5°	197.1	197.6	197.1	196.6	195.8	195.1
58°	192.0	192.3	192.0	191.3	190.5	190.2
58.5°	186.7	186.9	186.7	186.2	185.4	185.2
59°	181.3	181.8	181.3	180.8	180.3	180.1
59.5°	176.5	176.8	176.5	175.7	175.2	175.0
60°	171.4	171.7	171.4	170.9	170.4	170.1
60.5°	166.6	166.8	166.6	166.1	165.6	165.3
61°	162.0	162.3	162.0	161.5	161.0	160.7
61.5°	157.4	157.7	157.4	156.9	156.4	156.2
62°	152.9	152.9	152.9	152.3	151.8	151.8
62.5°	148.3	148.5	148.3	147.8	147.5	147.3
63°	144.0	144.0	144.0	143.4	143.2	142.9
63.5°	139.6	139.9	139.6	139.1	138.9	138.6
64°	135.3	135.6	135.3	135.0	134.8	134.5
64.5°	131.2	131.5	131.2	131.0	130.7	130.5
65°	127.2	127.4	127.2	126.9	126.7	126.4
65.5°	123.3	123.3	123.3	122.8	122.6	122.6
66°	119.3	119.5	119.3	119.0	118.8	118.5



TEST NUMBER: P775973

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	108.1	108.1	108.1	107.8	107.6	107.3
68°	104.5	104.5	104.5	104.3	104.0	103.8
68.5°	100.7	101.0	100.7	100.7	100.5	100.2
69°	97.4	97.4	97.4	96.9	96.9	96.9
69.5°	93.8	94.1	93.8	93.6	93.6	93.3
70°	90.5	90.8	90.5	90.3	90.5	90.3
70.5°	87.2	87.5	87.2	87.2	87.2	87.0
71°	83.9	84.2	83.9	83.9	83.9	83.9
71.5°	80.9	80.9	80.9	80.9	80.6	80.6
72°	77.8	77.8	77.8	77.6	77.6	77.6
72.5°	74.8	74.8	74.8	74.5	74.5	74.5
73°	71.7	71.7	71.7	71.5	71.5	71.5
73.5°	68.7	68.7	68.7	68.7	68.4	68.4
74°	65.9	65.9	65.9	65.6	65.6	65.6
74.5°	62.8	62.8	62.8	62.8	62.8	62.8
75°	60.0	60.0	60.0	60.0	60.0	60.0
75.5°	57.2	57.5	57.2	57.2	57.2	57.2
76°	54.7	54.7	54.7	54.4	54.4	54.7
76.5°	51.9	51.9	51.9	51.9	51.9	51.9
77°	49.3	49.3	49.3	49.3	49.3	49.3
77.5°	46.8	46.8	46.8	46.8	46.8	46.8
78°	44.3	44.3	44.3	44.3	44.3	44.3
78.5°	41.7	42.0	41.7	41.7	42.0	42.0
79°	39.4	39.4	39.4	39.4	39.4	39.4
79.5°	37.1	37.1	37.1	36.9	37.1	37.1
80°	34.6	34.6	34.6	34.6	34.8	34.8
80.5°	32.6	32.6	32.6	32.6	32.6	32.6
81°	30.3	30.3	30.3	30.3	30.3	30.3
81.5°	28.0	28.0	28.0	28.0	28.0	28.0
82°	25.9	25.9	25.9	25.9	25.9	25.9
82.5°	23.9	23.7	23.9	23.9	23.9	23.9
83°	21.6	21.6	21.6	21.9	21.9	21.9
83.5°	19.6	19.6	19.6	19.8	19.8	19.8
84°	17.8	17.8	17.8	17.8	17.8	17.8
84.5°	15.8	15.8	15.8	15.8	15.8	16.0
85°	14.0	14.0	14.0	14.0	14.0	14.0
85.5°	12.0	12.2	12.0	12.2	12.0	12.2
86°	10.2	10.2	10.2	10.2	10.2	10.2
86.5°	8.4	8.6	8.4	8.4	8.4	8.6
87°	6.6	6.9	6.6	6.9	6.9	6.9
87.5°	5.1	5.3	5.1	5.1	5.1	5.1
88°	3.8	3.8	3.8	3.6	3.6	3.3
88.5°	2.5	3.1	2.5	2.3	2.0	2.0



TEST NUMBER: P775973

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.5	0.8	0.5	0.3	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





21.5°	1514.8	1512.2	1507.9	1509.2	1506.6	1509.2	1507.9	1512.2	1514.8	1512.2	1507.9
22°	1493.7	1491.1	1487.3	1487.8	1485.3	1487.8	1487.3	1491.1	1493.7	1491.1	1487.3



44°	391.2	394.2	400.1	400.6	403.1	400.6	400.1	394.2	391.2	394.2	400.1
44.5°	378.9	382.0	387.1	387.9	389.6	387.9	387.1	382.0	378.9	382.0	387.1



66.5°	114.7	115.0	115.2	115.5	115.7	115.5	115.2	115.0	114.7	115.0	115.2
67°	111.1	111.1	111.4	111.7	111.9	111.7	111.4	111.1	111.1	111.1	111.4



89°	0.8	1.0	1.5	1.8	2.0	1.8	1.5	1.0	0.8	1.0	1.5
89.5°	0.0	0.3	0.8	1.0	1.3	1.0	0.8	0.3	0.0	0.3	0.8

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21.5°	1509.2	1506.6	1509.2	1507.9	1512.2	1514.8
22°	1487.8	1485.3	1487.8	1487.3	1491.1	1493.7



44°	400.6	403.1	400.6	400.1	394.2	391.2
44.5°	387.9	389.6	387.9	387.1	382.0	378.9



66.5°	115.5	115.7	115.5	115.2	115.0	114.7
67°	111.7	111.9	111.7	111.4	111.1	111.1

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Scaled Data Report



89°	1.8	2.0	1.8	1.5	1.0	0.8
89.5°	1.0	1.3	1.0	0.8	0.3	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)