

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: P776423

Luminaire Tested: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B018)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-4000K
Description: 6 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3576.1 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

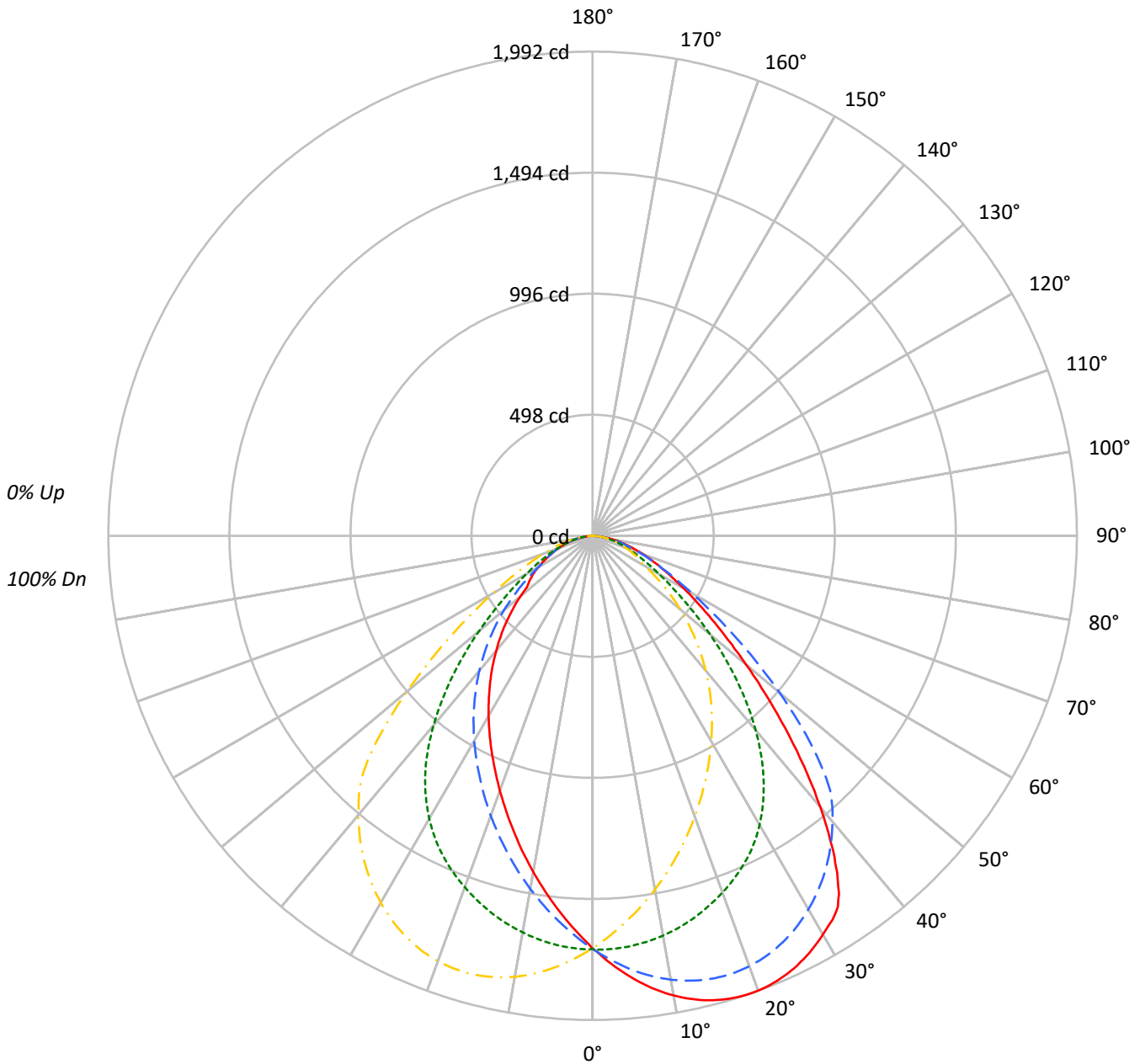
Input Watts (W): 38.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				100															
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87															
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76				76															
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66				66															
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58				58															
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51				51															
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	45				45															
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41				41															
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37				37															
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33				33															
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31				31															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	73160	73160	73160	73160
5°	78842	73319	67099	73038
10°	83947	73003	61405	72457
15°	88142	72416	56030	71591
20°	91248	71555	51111	70506
25°	93232	70400	46633	69098
30°	94198	68285	42532	66824
35°	92597	64456	38606	63121
40°	81953	58594	34667	57166
45°	68264	50910	30536	49437
50°	55221	42206	25922	40880
55°	44724	33772	23540	32984
60°	37321	27392	22113	27108
65°	31745	22790	20162	22963
70°	27607	19538	18568	19890
75°	24071	16902	16835	17500
80°	19786	14505	14083	15199
85°	12745	11165	7756	12350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 80515 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	4.5
10°-20°	455.6	12.7
20°-30°	675.9	18.9
30°-40°	772.4	21.6
40°-50°	671.5	18.8
50°-60°	436.9	12.2
60°-70°	249.0	7.0
70°-80°	124.7	3.5
80°-90°	29.6	0.8
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°	1292.0	36.1
0°-40°	2064.4	57.7
0°-60°	3172.8	88.7
0°-90°	3576.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3576.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1699	1699	1699	1699	1699	
5°	1824	1696	1552	1690	1824	177
15°	1977	1625	1257	1606	1977	560
25°	1962	1482	982	1454	1962	904
35°	1762	1226	734	1201	1762	1081
45°	1121	836	502	812	1121	866
55°	596	450	314	439	596	542
65°	312	224	198	225	312	312
75°	145	102	101	105	145	154
85°	26	23	16	25	26	34
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°	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2
0.5°	1709.7	1709.7	1709.7	1707.7	1702.8	1699.2	1686.7	1681.9	1681.9	1683.9	1689.1
1°	1723.0	1722.2	1719.0	1712.9	1702.8	1694.0	1677.0	1669.0	1667.8	1670.6	1679.1
1.5°	1736.7	1735.1	1728.6	1718.2	1702.8	1688.3	1666.6	1656.1	1653.3	1657.3	1668.6
2°	1750.0	1747.6	1737.9	1723.0	1702.4	1682.7	1656.5	1642.8	1639.2	1644.4	1658.1
2.5°	1762.9	1759.3	1747.6	1727.8	1702.0	1676.6	1646.4	1629.5	1624.6	1630.7	1647.2
3°	1775.8	1771.4	1756.5	1732.3	1701.2	1671.0	1635.5	1616.2	1610.5	1617.4	1636.3
3.5°	1788.3	1783.1	1764.9	1736.7	1700.4	1665.0	1625.0	1602.9	1596.0	1603.7	1625.4
4°	1800.4	1794.4	1773.8	1740.7	1698.8	1658.1	1614.2	1589.6	1581.9	1590.4	1614.6
4.5°	1812.5	1805.2	1781.9	1744.8	1697.6	1652.1	1603.7	1575.5	1567.0	1576.3	1603.7
5°	1824.2	1816.1	1789.9	1748.8	1696.4	1645.2	1592.8	1562.2	1552.5	1562.6	1592.4
5.5°	1835.1	1826.6	1798.0	1752.0	1694.4	1638.3	1581.5	1548.4	1538.0	1548.8	1581.1
6°	1846.0	1836.7	1805.2	1755.3	1692.4	1631.1	1570.2	1534.7	1523.5	1534.7	1569.4
6.5°	1856.8	1846.4	1812.5	1758.5	1690.3	1624.2	1559.3	1521.0	1508.5	1521.0	1558.1
7°	1866.9	1856.0	1819.4	1761.3	1687.9	1617.4	1548.0	1506.9	1493.6	1506.9	1546.4
7.5°	1876.6	1864.9	1826.2	1764.1	1685.5	1609.3	1536.4	1492.8	1478.7	1492.8	1534.7
8°	1885.9	1873.8	1832.3	1766.5	1682.7	1602.1	1524.7	1479.1	1464.2	1478.7	1523.0
8.5°	1895.1	1881.8	1838.3	1768.6	1679.9	1594.0	1513.4	1465.0	1449.3	1465.0	1511.0
9°	1904.0	1890.3	1843.9	1770.2	1676.6	1586.3	1501.7	1451.3	1434.0	1450.5	1499.3
9.5°	1912.5	1898.0	1849.2	1771.8	1673.4	1578.7	1490.0	1436.8	1419.4	1436.4	1487.2
10°	1920.1	1905.2	1854.4	1773.4	1669.8	1570.2	1477.9	1422.7	1404.5	1422.3	1475.1
10.5°	1927.8	1912.5	1859.3	1774.6	1666.6	1562.2	1465.8	1408.6	1390.0	1408.2	1463.0
11°	1935.1	1918.9	1863.3	1775.4	1662.5	1553.7	1453.7	1394.4	1375.1	1393.6	1450.9
11.5°	1941.9	1925.0	1867.7	1776.2	1658.5	1544.8	1441.6	1380.7	1359.8	1379.9	1438.8
12°	1948.4	1931.0	1871.4	1776.2	1654.1	1535.9	1429.5	1365.8	1345.3	1365.4	1426.3
12.5°	1954.4	1936.3	1874.6	1776.6	1649.6	1527.1	1417.4	1352.1	1330.8	1351.3	1414.2
13°	1959.6	1941.5	1877.8	1776.2	1645.2	1518.6	1404.9	1338.0	1315.8	1336.8	1401.7
13.5°	1964.9	1945.9	1880.6	1775.8	1640.0	1509.3	1392.4	1323.9	1300.9	1323.1	1389.2
14°	1969.3	1950.4	1883.0	1775.4	1635.1	1500.1	1380.3	1309.8	1286.4	1308.6	1376.7
14.5°	1973.8	1954.0	1885.1	1774.6	1629.9	1490.8	1367.4	1295.3	1271.5	1294.5	1364.2
15°	1977.4	1957.6	1886.7	1773.4	1624.6	1481.1	1354.9	1281.2	1257.0	1280.4	1351.7
15.5°	1981.0	1960.4	1888.3	1771.8	1619.0	1471.8	1342.4	1267.5	1242.5	1266.7	1338.8
16°	1983.8	1963.3	1889.1	1770.2	1613.3	1462.2	1329.9	1253.3	1228.0	1252.1	1326.3
16.5°	1986.3	1965.3	1889.9	1768.2	1607.7	1452.5	1317.4	1239.2	1213.8	1238.4	1313.8
17°	1988.3	1966.9	1890.3	1765.7	1601.3	1442.4	1304.5	1225.1	1199.3	1224.3	1301.3
17.5°	1989.9	1968.1	1890.3	1763.3	1595.2	1432.7	1292.1	1211.4	1185.2	1210.2	1288.4
18°	1991.1	1968.9	1889.9	1760.9	1588.8	1423.1	1279.6	1197.3	1170.7	1196.5	1275.5
18.5°	1991.9	1969.7	1889.1	1757.7	1582.3	1412.6	1266.7	1183.6	1157.0	1182.8	1263.0
19°	1991.9	1969.7	1887.9	1754.4	1575.5	1402.1	1254.2	1169.9	1143.3	1169.1	1250.5
19.5°	1991.9	1969.3	1886.7	1751.2	1569.0	1392.0	1241.3	1156.2	1129.2	1155.4	1238.0
20°	1991.5	1968.5	1884.7	1747.2	1561.7	1381.9	1228.4	1142.5	1115.5	1141.7	1225.1
20.5°	1990.3	1967.3	1882.6	1743.6	1554.9	1371.5	1215.9	1128.8	1101.4	1128.4	1212.2
21°	1989.1	1965.7	1879.8	1739.1	1547.2	1360.6	1203.0	1115.5	1088.1	1114.7	1199.7



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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°	1981.8	1958.0	1870.1	1725.0	1524.3	1328.7	1165.1	1075.6	1047.3	1075.2	1161.4
23°	1979.0	1954.8	1866.1	1719.8	1516.6	1317.9	1152.2	1062.3	1034.0	1061.9	1148.9
23.5°	1975.4	1951.2	1861.7	1714.5	1508.1	1307.0	1139.7	1049.0	1020.7	1049.0	1136.4
24°	1971.3	1946.7	1857.2	1708.5	1499.7	1295.7	1126.8	1036.1	1007.8	1035.7	1123.5
24.5°	1966.9	1942.3	1852.0	1702.8	1491.2	1284.8	1114.3	1023.2	994.9	1022.4	1111.0
25°	1962.5	1937.5	1846.8	1696.4	1481.9	1273.1	1101.8	1009.9	981.6	1009.5	1098.1
25.5°	1957.2	1931.8	1841.1	1689.9	1473.1	1262.2	1088.9	997.0	968.7	997.0	1086.0
26°	1951.6	1926.6	1835.1	1682.7	1463.4	1250.5	1076.4	984.1	955.8	983.7	1073.1
26.5°	1945.5	1920.1	1828.6	1675.8	1453.7	1238.8	1063.9	971.6	942.9	971.2	1060.7
27°	1939.5	1914.1	1822.2	1668.6	1443.6	1227.1	1051.4	958.7	930.4	958.3	1048.2
27.5°	1933.0	1907.2	1814.9	1660.5	1432.7	1215.5	1038.5	945.8	917.9	945.8	1036.1
28°	1925.8	1900.4	1807.3	1652.1	1421.5	1203.4	1026.0	932.9	905.0	932.9	1023.6
28.5°	1918.5	1892.7	1800.0	1643.6	1410.6	1190.9	1013.9	920.4	892.5	920.4	1011.1
29°	1910.9	1884.7	1791.9	1634.3	1398.5	1178.4	1001.0	907.9	880.4	907.9	998.6
29.5°	1902.8	1876.6	1783.5	1624.6	1386.4	1165.9	988.9	895.4	868.0	895.8	986.1
30°	1894.7	1868.1	1775.0	1614.6	1373.5	1152.6	976.0	883.3	855.5	882.9	973.6
30.5°	1886.3	1859.3	1766.1	1604.1	1360.6	1139.3	963.5	870.4	843.0	870.8	961.5
31°	1878.2	1850.4	1756.9	1593.2	1347.3	1126.4	951.0	857.9	830.9	858.7	949.0
31.5°	1870.1	1841.1	1747.2	1581.1	1333.6	1112.7	938.5	846.2	818.8	846.2	936.5
32°	1862.1	1831.4	1737.5	1569.0	1319.5	1098.9	926.0	833.7	806.7	834.1	924.0
32.5°	1852.4	1822.2	1727.0	1556.1	1304.5	1085.2	913.5	821.2	794.6	822.0	911.9
33°	1841.5	1812.5	1717.0	1542.8	1289.2	1071.1	901.0	809.5	782.5	809.9	899.4
33.5°	1828.2	1803.2	1706.5	1529.1	1274.3	1057.0	888.5	797.4	770.4	798.2	886.9
34°	1807.7	1793.6	1695.6	1515.0	1258.6	1042.5	875.6	785.3	758.7	785.7	874.4
34.5°	1789.5	1783.1	1683.9	1499.7	1242.9	1028.0	863.1	772.8	746.6	774.0	861.9
35°	1761.7	1770.6	1672.2	1483.9	1226.3	1013.1	850.6	761.1	734.5	761.9	849.8
35.5°	1735.9	1756.5	1660.1	1467.8	1209.8	998.6	838.5	749.0	722.8	750.2	837.3
36°	1710.9	1736.7	1647.6	1450.9	1192.5	983.7	825.6	737.3	711.1	738.5	824.8
36.5°	1678.7	1717.4	1634.7	1434.0	1174.7	968.7	812.7	725.2	699.0	726.5	811.9
37°	1652.5	1692.0	1621.4	1416.2	1157.0	953.4	800.2	713.1	687.3	714.4	799.8
37.5°	1620.6	1665.0	1607.7	1397.3	1138.9	938.1	787.3	701.5	675.7	702.7	786.9
38°	1587.5	1642.4	1594.0	1377.9	1119.5	922.8	774.8	689.4	664.0	691.0	774.4
38.5°	1557.7	1610.5	1579.5	1358.6	1101.4	907.5	761.9	677.7	652.3	679.3	761.9
39°	1522.2	1583.5	1565.4	1338.8	1082.0	892.1	749.0	666.0	640.2	667.6	749.8
39.5°	1491.6	1554.5	1550.1	1317.9	1062.7	876.4	736.1	653.9	628.5	655.9	736.9
40°	1458.1	1521.0	1534.7	1296.1	1042.5	860.3	723.2	642.2	616.8	644.2	724.0
40.5°	1421.1	1494.4	1519.0	1274.3	1022.8	844.6	710.7	630.5	605.5	632.5	711.5
41°	1390.8	1460.2	1504.5	1252.1	1002.6	828.8	697.4	618.8	593.8	620.8	699.4
41.5°	1354.1	1427.9	1488.4	1228.8	982.0	812.7	684.5	607.1	582.5	609.5	686.1
42°	1321.1	1397.7	1470.6	1205.0	961.5	797.0	672.0	595.4	570.8	597.9	673.6
42.5°	1288.0	1362.6	1451.7	1181.6	940.9	780.9	659.5	584.1	559.1	586.2	661.5
43°	1250.5	1333.2	1431.9	1157.4	920.0	765.2	646.6	572.5	547.5	574.9	649.0
43.5°	1221.5	1299.7	1406.1	1132.4	899.0	749.0	633.3	560.8	536.2	563.2	636.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1121.1	1199.7	1322.3	1057.4	836.1	700.7	595.4	526.1	501.5	528.9	599.1
45.5°	1085.6	1169.9	1294.5	1031.6	814.7	684.9	582.9	514.4	490.2	517.6	586.6
46°	1058.6	1137.6	1262.6	1006.2	794.2	668.8	570.0	503.1	478.5	505.9	574.1
46.5°	1024.0	1103.4	1230.4	980.0	773.2	653.1	557.5	491.4	466.8	494.6	561.2
47°	995.3	1075.6	1200.5	953.8	752.3	637.4	544.6	479.7	455.5	483.0	549.1
47.5°	965.9	1040.9	1165.9	928.0	731.3	621.6	532.1	468.4	444.3	472.1	536.6
48°	932.9	1013.9	1134.4	902.2	710.7	606.3	520.0	456.8	433.0	460.4	524.1
48.5°	909.1	983.2	1102.2	876.0	690.2	590.2	507.5	445.5	421.7	449.1	511.6
49°	875.6	951.8	1067.5	850.2	669.6	574.9	494.6	433.8	410.0	437.8	499.5
49.5°	853.0	926.0	1037.3	824.0	649.9	559.6	482.6	422.5	398.7	426.5	487.0
50°	824.4	892.9	1003.4	798.2	630.1	544.6	470.1	411.2	387.0	415.2	474.9
50.5°	798.2	869.6	971.2	772.4	609.5	529.3	458.0	399.5	375.7	403.9	462.8
51°	775.2	838.9	939.7	746.6	590.2	514.4	445.9	388.6	364.8	392.7	450.3
51.5°	745.8	814.7	906.2	721.6	571.6	500.3	433.8	376.9	353.1	381.4	438.6
52°	727.3	789.3	877.6	696.6	553.1	485.4	421.7	365.6	342.7	370.5	426.5
52.5°	699.8	761.9	846.2	672.0	534.2	471.3	410.4	354.4	337.4	359.2	414.8
53°	680.9	740.2	816.4	647.8	516.8	457.2	398.3	345.5	332.6	349.9	403.1
53.5°	658.7	711.1	786.9	624.1	499.1	443.0	386.6	336.6	327.7	340.6	391.4
54°	636.6	691.8	756.7	600.7	482.6	429.7	375.3	328.2	323.3	331.4	380.2
54.5°	618.4	665.6	730.5	578.1	466.0	416.0	364.0	319.3	318.5	322.1	369.3
55°	595.8	645.4	701.5	556.3	449.9	403.1	352.7	310.8	313.6	312.8	358.0
55.5°	580.5	623.7	676.5	535.4	434.6	390.6	341.9	306.0	308.4	308.0	347.1
56°	557.9	601.5	649.0	514.8	419.3	377.7	331.0	301.1	303.2	303.6	336.6
56.5°	543.8	582.9	624.9	495.1	405.2	365.6	319.7	295.9	297.9	298.3	326.1
57°	524.9	560.0	600.7	476.1	391.0	353.6	308.8	291.1	292.3	293.5	315.7
57.5°	510.0	543.8	576.1	457.6	377.7	342.7	299.1	285.8	286.6	288.2	304.8
58°	493.8	522.1	553.9	440.2	364.8	331.4	288.6	280.6	281.0	283.0	295.1
58.5°	477.7	507.1	531.3	423.3	352.3	320.1	278.6	275.3	274.9	277.8	284.6
59°	463.6	487.0	511.2	407.6	340.6	309.2	268.9	270.1	268.9	272.5	274.9
59.5°	447.5	472.9	489.8	391.8	329.4	299.1	259.2	264.5	262.8	266.9	265.7
60°	433.4	454.7	470.9	377.3	318.1	289.5	249.9	259.2	256.8	261.2	256.4
60.5°	418.9	441.0	451.5	363.2	306.4	279.8	241.1	253.2	250.8	255.6	247.5
61°	405.2	424.1	434.2	349.5	295.9	270.5	233.0	247.9	244.7	249.9	239.1
61.5°	392.3	410.4	416.0	336.6	285.8	261.2	227.8	241.9	238.3	244.3	231.4
62°	379.8	395.5	400.7	324.1	276.1	252.8	223.3	236.2	232.2	238.3	225.8
62.5°	366.9	382.6	383.8	312.4	266.5	244.3	218.5	230.6	226.2	232.6	221.3
63°	355.6	368.5	369.3	301.1	257.6	236.2	213.7	224.5	220.1	226.6	216.5
63.5°	343.5	356.4	354.4	289.9	248.7	228.2	209.2	218.9	214.5	220.9	212.0
64°	333.0	343.1	340.6	279.4	240.3	220.5	204.4	213.3	208.8	214.9	207.6
64.5°	321.3	331.8	326.9	269.3	231.8	213.3	199.6	207.6	203.2	209.6	202.8
65°	311.6	319.7	314.4	259.6	223.7	206.0	194.7	202.0	197.9	204.0	198.3
65.5°	301.1	309.2	302.4	250.8	216.1	199.1	190.3	196.7	192.7	198.3	193.5
66°	291.5	297.5	290.7	241.5	208.4	192.3	185.0	191.5	187.5	192.7	188.7



TEST NUMBER: P776423

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	262.4	267.3	257.6	216.1	187.1	173.3	170.5	175.8	172.1	177.0	174.2
68°	253.6	257.2	247.1	208.0	180.2	167.3	165.7	170.9	167.3	172.1	169.3
68.5°	244.7	247.9	237.9	200.4	173.8	161.7	160.9	166.1	162.1	166.9	164.5
69°	235.8	239.1	227.8	192.7	167.7	156.0	156.0	160.9	157.2	162.1	159.2
69.5°	227.4	229.8	218.9	185.4	160.9	150.8	151.2	156.0	152.4	156.8	154.4
70°	219.3	221.3	210.4	178.6	155.2	145.1	146.3	151.2	147.5	152.0	149.6
70.5°	210.8	212.5	201.6	171.3	149.2	140.3	141.9	146.3	142.7	147.1	145.1
71°	202.8	204.4	193.5	164.9	143.5	135.1	137.1	141.5	138.3	142.3	140.3
71.5°	195.1	196.3	185.4	158.4	137.9	130.2	132.2	137.1	133.4	137.5	135.5
72°	187.5	188.3	177.4	152.0	132.2	125.4	127.8	132.2	128.6	132.6	130.6
72.5°	179.8	180.6	169.7	145.9	127.0	120.5	123.4	127.4	124.2	127.8	126.2
73°	172.1	172.5	162.5	140.3	121.7	116.1	118.9	122.6	119.3	123.0	121.7
73.5°	164.9	165.3	155.2	134.2	116.5	112.1	114.5	118.1	114.9	118.5	116.9
74°	157.6	158.0	148.0	128.6	111.3	107.6	110.1	113.3	110.5	113.7	112.5
74.5°	150.4	150.8	141.5	123.0	106.4	104.0	105.6	108.8	105.6	109.2	108.0
75°	144.7	144.7	135.1	117.3	101.6	100.4	101.2	104.0	101.2	104.4	103.6
75.5°	137.9	137.9	128.6	112.1	97.2	96.8	96.8	99.6	96.8	100.0	99.2
76°	131.0	131.0	122.2	106.8	92.3	93.1	92.7	94.7	92.3	95.5	94.7
76.5°	123.8	124.2	115.7	101.6	87.9	89.1	88.3	90.3	87.9	90.7	90.3
77°	116.9	117.3	109.2	96.3	83.4	85.5	83.9	85.9	83.4	86.3	85.9
77.5°	110.9	111.3	103.2	91.1	79.0	81.4	79.4	81.4	79.0	81.8	81.4
78°	104.4	104.8	97.6	86.3	74.6	77.8	75.4	76.6	74.2	77.4	77.4
78.5°	98.0	98.8	91.5	81.4	70.5	73.8	71.0	72.2	69.7	73.0	73.0
79°	91.9	92.3	85.9	76.6	66.5	69.7	66.9	67.7	65.3	68.1	68.5
79.5°	85.9	86.7	80.2	72.2	62.5	66.1	62.9	63.3	61.3	63.7	64.1
80°	79.8	80.6	74.6	67.3	58.5	62.1	58.9	58.9	56.8	59.3	60.1
80.5°	74.2	75.0	69.3	62.9	54.4	58.5	54.8	54.0	52.4	54.8	56.0
81°	68.5	69.3	64.1	58.5	50.8	54.4	50.8	50.0	48.4	50.4	51.6
81.5°	62.9	63.7	58.9	54.0	47.2	50.8	46.8	45.2	43.9	46.0	47.6
82°	57.2	58.1	54.0	50.0	43.1	47.2	42.7	41.1	39.9	41.9	43.9
82.5°	52.0	52.8	49.2	46.0	39.9	43.5	39.1	37.1	35.5	37.9	39.9
83°	46.8	47.6	44.7	41.9	36.3	39.9	35.5	33.1	31.4	33.5	36.7
83.5°	41.1	41.9	39.9	37.9	33.1	36.3	31.8	29.4	27.4	29.4	33.1
84°	35.9	36.7	35.9	33.9	29.4	32.7	28.6	25.4	23.4	25.4	29.8
84.5°	30.6	31.8	31.8	30.2	26.2	29.0	25.0	21.4	19.4	21.4	26.2
85°	25.8	27.0	28.2	26.6	22.6	25.4	21.4	18.1	15.7	17.7	23.0
85.5°	20.6	22.2	24.2	23.0	19.4	21.8	18.1	15.3	13.3	14.9	19.8
86°	16.9	18.5	20.6	19.4	16.5	18.5	14.9	12.9	11.3	12.5	16.5
86.5°	14.1	15.3	16.9	16.1	13.3	14.9	11.7	10.5	9.3	10.1	13.7
87°	11.7	12.5	13.7	12.5	10.5	11.7	8.9	8.1	6.9	8.1	10.9
87.5°	8.9	9.3	10.5	9.3	7.7	8.5	5.6	5.2	4.8	5.6	7.7
88°	6.5	6.5	7.3	6.0	4.8	5.2	2.8	2.8	2.8	3.2	4.8
88.5°	3.6	3.6	4.0	2.8	2.0	2.4	0.8	0.8	1.2	1.2	2.0



TEST NUMBER: P776423

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-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: P776423

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2
0.5°	1696.4	1702.4	1708.9	1706.1	1707.7	1709.7
1°	1690.3	1701.6	1713.3	1715.7	1719.8	1723.0
1.5°	1684.3	1700.8	1718.2	1724.6	1732.3	1736.7
2°	1677.9	1700.0	1722.2	1733.5	1744.4	1750.0
2.5°	1671.8	1698.8	1726.2	1742.4	1756.1	1762.9
3°	1665.0	1697.2	1729.9	1750.8	1767.8	1775.8
3.5°	1658.1	1695.6	1733.5	1759.3	1779.4	1788.3
4°	1651.2	1694.0	1736.7	1767.3	1790.3	1800.4
4.5°	1644.0	1692.0	1740.3	1775.0	1801.2	1812.5
5°	1636.7	1689.9	1743.2	1782.7	1811.7	1824.2
5.5°	1629.5	1687.1	1746.0	1789.9	1822.2	1835.1
6°	1621.8	1684.7	1748.4	1797.2	1831.8	1846.0
6.5°	1614.2	1681.9	1750.4	1803.6	1841.1	1856.8
7°	1606.5	1679.1	1752.8	1810.1	1850.4	1866.9
7.5°	1598.4	1675.8	1754.4	1816.1	1859.3	1876.6
8°	1590.4	1672.6	1756.1	1822.2	1867.7	1885.9
8.5°	1582.3	1669.0	1757.3	1827.4	1875.8	1895.1
9°	1573.8	1665.4	1758.5	1832.7	1883.5	1904.0
9.5°	1565.4	1661.3	1759.3	1837.5	1891.1	1912.5
10°	1556.9	1657.3	1759.7	1842.3	1898.0	1920.1
10.5°	1548.0	1652.9	1760.1	1846.4	1904.4	1927.8
11°	1539.2	1648.4	1760.1	1850.4	1910.9	1935.1
11.5°	1530.3	1644.0	1759.7	1853.6	1916.9	1941.9
12°	1521.4	1638.7	1759.3	1856.8	1922.2	1948.4
12.5°	1512.2	1633.9	1758.9	1860.1	1927.4	1954.4
13°	1502.9	1628.7	1757.7	1862.5	1932.2	1959.6
13.5°	1493.2	1623.4	1756.5	1864.9	1936.7	1964.9
14°	1483.5	1617.8	1754.9	1866.9	1940.3	1969.3
14.5°	1473.9	1612.1	1753.2	1868.1	1943.9	1973.8
15°	1464.2	1606.1	1751.2	1869.7	1947.1	1977.4
15.5°	1454.5	1600.0	1749.2	1870.6	1949.6	1981.0
16°	1444.8	1594.0	1746.4	1871.0	1952.0	1983.8
16.5°	1434.8	1587.5	1743.6	1871.0	1953.6	1986.3
17°	1424.3	1581.1	1740.7	1870.6	1954.8	1988.3
17.5°	1414.2	1574.2	1737.5	1870.1	1956.0	1989.9
18°	1404.1	1567.4	1733.9	1869.3	1956.4	1991.1
18.5°	1393.6	1560.5	1729.9	1868.1	1956.4	1991.9
19°	1383.6	1553.3	1726.2	1866.1	1956.4	1991.9
19.5°	1372.7	1546.0	1721.8	1864.1	1955.6	1991.9
20°	1362.2	1538.8	1717.4	1862.1	1954.4	1991.5
20.5°	1351.7	1531.1	1712.5	1859.3	1952.8	1990.3
21°	1340.8	1523.0	1707.7	1856.0	1950.8	1989.1

TEST NUMBER: P776423

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1308.2	1498.9	1691.2	1844.7	1942.3	1981.8
23°	1297.3	1490.4	1685.1	1840.3	1938.7	1979.0
23.5°	1286.0	1481.9	1678.7	1835.5	1934.6	1975.4
24°	1275.1	1473.1	1672.2	1830.2	1930.2	1971.3
24.5°	1263.4	1463.8	1665.4	1825.0	1925.4	1966.9
25°	1252.1	1454.5	1658.5	1818.9	1920.1	1962.5
25.5°	1240.9	1444.8	1650.8	1812.9	1914.5	1957.2
26°	1229.2	1435.2	1643.6	1806.0	1908.4	1951.6
26.5°	1217.5	1425.1	1635.5	1799.6	1902.0	1945.5
27°	1205.8	1414.6	1627.5	1792.3	1895.9	1939.5
27.5°	1193.7	1403.3	1618.6	1784.7	1888.7	1933.0
28°	1181.2	1392.4	1609.7	1777.0	1881.4	1925.8
28.5°	1169.1	1380.7	1600.4	1769.0	1873.4	1918.5
29°	1156.6	1368.6	1590.4	1760.5	1865.7	1910.9
29.5°	1143.7	1356.6	1580.3	1752.0	1857.2	1902.8
30°	1130.4	1344.1	1569.4	1742.8	1848.8	1894.7
30.5°	1117.5	1330.8	1558.1	1733.5	1839.5	1886.3
31°	1104.2	1317.9	1546.4	1723.8	1830.2	1878.2
31.5°	1090.9	1304.1	1534.3	1714.1	1821.0	1870.1
32°	1077.6	1290.4	1521.8	1703.7	1810.9	1862.1
32.5°	1063.5	1275.9	1508.5	1693.2	1801.2	1852.4
33°	1049.8	1261.8	1495.2	1682.7	1791.1	1841.5
33.5°	1036.1	1247.3	1481.1	1671.8	1781.1	1828.2
34°	1021.9	1232.0	1466.6	1660.5	1771.8	1807.7
34.5°	1007.4	1216.7	1452.1	1648.8	1761.7	1789.5
35°	993.3	1200.9	1436.8	1636.7	1749.6	1761.7
35.5°	979.2	1184.0	1420.7	1624.6	1736.7	1735.9
36°	964.3	1167.5	1404.5	1611.7	1719.4	1710.9
36.5°	949.8	1149.7	1388.0	1598.8	1698.4	1678.7
37°	935.3	1132.0	1370.3	1585.5	1678.3	1652.5
37.5°	920.4	1113.5	1352.1	1571.8	1650.0	1620.6
38°	905.4	1094.5	1332.8	1557.7	1626.2	1587.5
38.5°	889.3	1075.6	1312.6	1542.8	1599.2	1557.7
39°	874.0	1056.2	1292.5	1528.7	1568.2	1522.2
39.5°	858.7	1036.9	1271.1	1514.2	1544.0	1491.6
40°	843.0	1017.1	1248.5	1498.9	1512.2	1458.1
40.5°	827.2	997.0	1225.9	1482.7	1481.5	1421.1
41°	811.1	976.4	1203.0	1467.8	1453.3	1390.8
41.5°	795.4	957.0	1180.0	1452.5	1419.8	1354.1
42°	779.7	936.5	1156.2	1436.4	1390.0	1321.1
42.5°	763.5	915.5	1132.4	1419.8	1358.2	1288.0
43°	747.8	895.0	1107.8	1402.1	1324.3	1250.5
43.5°	731.7	874.4	1083.2	1382.8	1295.7	1221.5

TEST NUMBER: P776423

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	684.1	811.9	1007.8	1309.8	1199.7	1121.1
45.5°	668.0	791.4	982.8	1279.1	1164.7	1085.6
46°	651.9	770.8	957.0	1250.9	1136.8	1058.6
46.5°	636.1	750.2	931.6	1221.5	1104.2	1024.0
47°	620.8	730.1	906.2	1188.0	1074.4	995.3
47.5°	605.5	709.1	880.4	1158.2	1044.5	965.9
48°	589.8	689.0	855.1	1125.6	1011.1	932.9
48.5°	574.5	669.2	830.1	1092.1	986.1	909.1
49°	559.6	649.0	804.7	1061.9	953.8	875.6
49.5°	545.0	629.7	779.3	1027.6	928.0	853.0
50°	529.7	610.3	754.3	995.7	900.6	824.4
50.5°	514.4	591.0	729.3	964.7	870.0	798.2
51°	500.3	572.5	704.7	932.1	846.6	775.2
51.5°	486.2	553.9	680.9	902.6	815.9	745.8
52°	472.1	536.6	657.5	870.8	794.6	727.3
52.5°	457.6	519.2	634.1	840.5	768.4	699.8
53°	444.3	501.9	610.8	812.3	743.4	680.9
53.5°	431.0	485.4	589.4	781.7	720.8	658.7
54°	417.6	469.7	567.6	754.7	693.8	636.6
54.5°	405.2	454.7	547.1	726.0	674.8	618.4
55°	392.3	439.4	526.9	699.8	648.6	595.8
55.5°	380.2	424.9	508.0	674.0	630.5	580.5
56°	368.5	410.8	489.4	647.4	607.1	557.9
56.5°	356.8	397.9	471.7	624.5	588.2	543.8
57°	346.3	384.6	454.3	599.9	568.4	524.9
57.5°	335.4	371.7	438.2	577.7	547.9	510.0
58°	324.9	359.6	422.5	554.3	530.9	493.8
58.5°	314.4	347.9	407.2	533.8	510.8	477.7
59°	303.6	336.6	393.1	513.2	495.9	463.6
59.5°	293.9	325.3	379.4	493.0	476.9	447.5
60°	284.6	314.8	366.0	474.1	463.2	433.4
60.5°	275.7	304.4	353.1	455.1	445.1	418.9
61°	266.9	294.3	340.6	438.2	432.2	405.2
61.5°	258.4	285.0	329.0	420.5	415.6	392.3
62°	249.9	275.7	317.7	405.2	403.1	379.8
62.5°	241.9	266.5	306.8	389.4	387.8	366.9
63°	234.2	257.6	296.3	374.5	375.7	355.6
63.5°	226.6	249.1	285.8	360.0	362.0	343.5
64°	219.3	241.1	275.7	346.7	350.3	333.0
64.5°	212.5	233.0	266.5	333.0	337.0	321.3
65°	205.6	225.4	257.2	320.5	326.5	311.6
65.5°	198.7	217.7	248.3	308.4	314.0	301.1
66°	192.3	210.4	239.5	296.7	304.4	291.5



TEST NUMBER: P776423

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	173.8	189.5	215.3	264.5	272.5	262.4
68°	168.1	182.6	207.2	254.4	263.2	253.6
68.5°	162.5	176.2	200.0	244.7	253.6	244.7
69°	156.8	170.1	192.7	235.4	244.3	235.8
69.5°	151.6	164.1	185.4	226.2	235.4	227.4
70°	146.3	158.0	178.6	217.3	226.2	219.3
70.5°	141.1	152.0	171.7	208.8	217.7	210.8
71°	136.3	145.9	165.3	200.4	209.2	202.8
71.5°	131.4	140.7	158.8	192.3	201.2	195.1
72°	126.6	135.5	152.4	184.2	193.1	187.5
72.5°	121.7	130.2	146.3	177.0	185.0	179.8
73°	117.3	125.4	140.7	169.3	177.8	172.1
73.5°	112.9	120.1	135.1	161.7	169.7	164.9
74°	108.8	114.9	129.4	154.8	162.5	157.6
74.5°	104.4	110.1	123.8	147.5	155.2	150.4
75°	100.8	105.2	118.1	141.1	148.0	144.7
75.5°	97.2	100.4	112.9	134.6	141.5	137.9
76°	93.5	95.5	107.2	128.2	134.6	131.0
76.5°	89.5	91.1	102.4	121.7	128.2	123.8
77°	85.9	86.7	97.2	115.3	121.3	116.9
77.5°	81.8	82.2	92.3	109.2	114.9	110.9
78°	77.8	77.8	87.5	103.2	108.4	104.4
78.5°	74.2	73.8	82.2	97.2	102.4	98.0
79°	70.1	69.3	77.8	91.1	95.9	91.9
79.5°	66.1	65.3	73.0	85.5	89.9	85.9
80°	62.5	61.3	68.5	79.8	83.9	79.8
80.5°	58.5	57.2	64.1	74.6	78.2	74.2
81°	54.4	53.6	59.7	69.3	72.2	68.5
81.5°	50.8	49.6	55.2	64.1	66.5	62.9
82°	47.2	46.0	50.8	58.9	60.9	57.2
82.5°	43.5	42.3	46.8	54.0	55.6	52.0
83°	39.9	38.7	42.7	49.2	50.4	46.8
83.5°	36.3	35.1	38.7	44.7	44.7	41.1
84°	32.7	31.8	34.7	40.3	39.5	35.9
84.5°	29.0	28.2	31.0	35.9	34.7	30.6
85°	25.4	25.0	27.0	31.8	30.2	25.8
85.5°	21.8	21.8	23.4	27.8	25.8	20.6
86°	18.1	18.5	19.8	24.2	21.8	16.9
86.5°	14.9	15.3	16.1	20.2	18.1	14.1
87°	11.7	12.1	12.9	16.5	14.9	11.7
87.5°	8.5	9.3	9.7	13.3	11.7	8.9
88°	5.2	6.0	6.5	10.1	8.5	6.5
88.5°	2.4	3.2	2.8	6.9	5.6	3.6



TEST NUMBER: P776423

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQH-HCD6TSQLWW-4000lm-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

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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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°	1987.1	1963.3	1877.0	1734.7	1540.0	1349.7	1190.5	1102.2	1074.4	1101.4	1186.8
22°	1984.6	1960.9	1873.8	1729.9	1532.3	1339.6	1177.6	1088.9	1061.1	1088.1	1174.3



44°	1185.2	1264.6	1381.1	1108.2	878.0	732.9	620.8	549.1	524.9	551.5	623.7
44.5°	1153.8	1234.8	1353.3	1082.4	857.1	716.8	608.3	537.4	513.2	540.2	611.2



66.5°	281.4	287.8	279.0	232.6	201.2	185.8	180.2	186.2	182.2	187.5	183.8
67°	272.1	277.0	268.1	224.1	193.9	179.4	175.4	181.0	177.0	182.2	179.0



89°	1.2	0.8	0.8	0.8	0.4	0.4	0.0	0.4	0.0	0.4	0.4
89.5°	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	1329.9	1515.4	1702.0	1852.8	1948.4	1987.1
22°	1319.1	1507.3	1696.8	1849.2	1945.5	1984.6



44°	715.6	853.8	1057.8	1359.4	1261.0	1185.2
44.5°	700.2	833.3	1032.8	1333.6	1230.8	1153.8



66.5°	185.8	203.2	231.4	285.8	292.7	281.4
67°	179.8	196.3	222.9	274.5	283.4	272.1

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Scaled Data Report



89°	0.4	0.8	0.8	3.6	2.4	1.2
89.5°	0.0	0.0	0.0	0.8	0.4	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)