

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



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: P775981

Luminaire Tested: HCDJBL51525CSD-HCD4TRH-2500lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD4TRH-2500lm-3000K  
Description: 4 INCH ROUND MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

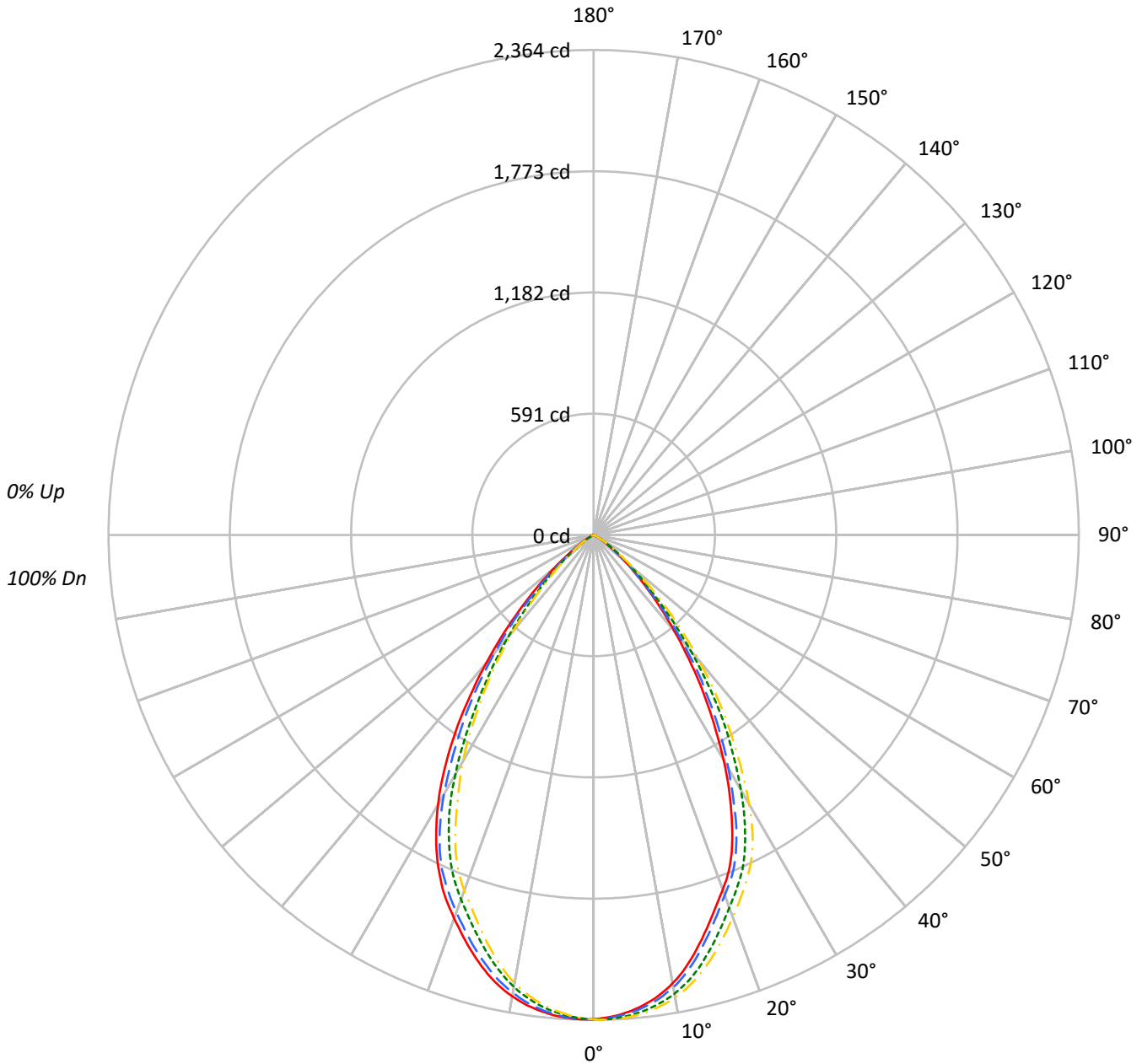
Lumens per Lamp: N/A  
Luminaire Lumens: 2660.9 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.98  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P775981  
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-3000K

### 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	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85					85			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78					78			
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65					65			
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60					60			
7	80	70	63	58	78	69	63	58	68	62	58	66	61	58	65	61	57	56					56			
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52					52			
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	58	53	49	48					48			
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45					45			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	297182	297182	297182	297182
5°	293175	296005	296574	294199
10°	283607	290112	291850	285920
15°	265595	276695	281242	270650
20°	246371	258947	266326	253148
25°	221954	241033	248587	231424
30°	184133	208547	220434	196021
35°	141666	167830	180505	149563
40°	100543	120323	133679	106145
45°	65176	77082	87476	66279
50°	37689	44855	48810	36142
55°	18540	22599	22885	16653
60°	7778	8835	9086	6469
65°	4050	4199	4348	3395
70°	2355	2465	2649	1987
75°	1459	1556	1556	1216
80°	725	1087	870	725
85°	289	722	289	289

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 89452 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.3	8.3
10°-20°	588.2	22.1
20°-30°	770.9	29.0
30°-40°	645.6	24.3
40°-50°	327.4	12.3
50°-60°	89.5	3.4
60°-70°	15.0	0.6
70°-80°	3.5	0.1
80°-90°	0.4	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1579.5	59.4
0°-40°	2225.1	83.6
0°-60°	2642.0	99.3
0°-90°	2660.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2361	2361	2361	2361	2361	
5°	2321	2343	2348	2329	2321	218
15°	2038	2124	2159	2077	2038	571
25°	1598	1736	1790	1667	1598	725
35°	922	1092	1175	974	922	574
45°	366	433	492	372	366	288
55°	84	103	104	76	84	82
65°	14	14	15	11	14	15
75°	3	3	3	2	3	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P775981

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4
0.5°	2358.7	2359.0	2359.9	2361.7	2362.4	2363.2	2363.4	2363.2	2361.2	2360.7	2360.9
1°	2356.7	2357.0	2358.7	2360.7	2362.4	2363.4	2363.9	2363.6	2361.9	2360.9	2360.9
1.5°	2354.0	2355.0	2357.0	2359.4	2361.9	2363.4	2363.9	2363.9	2361.7	2360.7	2359.7
2°	2351.0	2352.5	2354.5	2357.7	2360.7	2362.7	2363.9	2363.6	2361.2	2359.7	2359.0
2.5°	2347.3	2349.1	2352.0	2355.2	2359.2	2361.9	2363.2	2362.7	2360.2	2358.2	2357.2
3°	2343.1	2345.4	2348.3	2352.5	2356.7	2359.9	2361.7	2361.7	2358.5	2356.5	2355.0
3.5°	2338.2	2340.9	2344.6	2348.6	2354.3	2358.0	2359.7	2359.4	2356.7	2354.3	2352.3
4°	2333.0	2336.0	2339.7	2344.4	2351.3	2355.2	2357.7	2357.2	2354.3	2351.5	2349.3
4.5°	2327.3	2330.3	2334.7	2339.9	2347.6	2352.3	2355.2	2354.8	2350.8	2348.1	2345.4
5°	2320.7	2324.6	2328.8	2334.2	2343.1	2348.8	2351.8	2351.3	2347.6	2344.4	2341.4
5.5°	2313.7	2317.4	2322.6	2328.6	2338.4	2344.6	2348.1	2347.3	2343.4	2339.9	2336.5
6°	2305.6	2310.0	2316.2	2322.4	2332.8	2339.9	2343.9	2343.4	2338.9	2335.2	2331.5
6.5°	2297.7	2302.9	2308.8	2316.0	2327.1	2335.0	2339.4	2338.4	2334.0	2329.5	2325.3
7°	2288.5	2294.0	2300.9	2308.8	2320.7	2329.3	2334.0	2333.5	2328.3	2323.9	2318.9
7.5°	2278.9	2284.3	2292.2	2300.9	2313.7	2323.1	2327.8	2327.3	2322.4	2317.2	2311.8
8°	2268.5	2274.7	2283.1	2292.5	2306.3	2316.2	2321.1	2320.2	2316.0	2310.3	2304.1
8.5°	2257.4	2263.8	2273.0	2283.1	2298.2	2308.5	2314.2	2313.7	2308.5	2302.6	2295.7
9°	2245.3	2252.2	2261.8	2273.2	2289.8	2300.6	2306.3	2305.8	2300.9	2294.5	2286.8
9.5°	2232.9	2240.1	2250.5	2262.6	2280.1	2291.7	2298.2	2297.7	2293.0	2285.8	2277.2
10°	2219.3	2227.3	2238.4	2251.2	2270.2	2282.4	2288.5	2288.8	2283.8	2276.7	2267.0
10.5°	2204.5	2212.9	2225.8	2238.9	2259.1	2271.7	2278.9	2279.6	2274.4	2266.3	2256.7
11°	2189.7	2198.3	2211.2	2226.0	2247.5	2260.9	2268.8	2269.0	2264.1	2255.9	2245.0
11.5°	2172.9	2182.8	2196.1	2211.9	2235.4	2249.5	2257.6	2258.4	2253.4	2244.6	2232.7
12°	2155.4	2165.5	2179.8	2197.1	2222.3	2236.6	2245.5	2246.8	2242.1	2232.7	2220.3
12.5°	2137.3	2147.7	2162.8	2180.8	2207.5	2223.3	2233.7	2235.2	2230.0	2220.1	2207.0
13°	2118.8	2129.7	2145.0	2164.7	2192.4	2209.7	2219.8	2221.8	2216.9	2206.5	2192.9
13.5°	2099.3	2110.1	2126.9	2146.5	2176.6	2194.1	2206.3	2208.5	2203.3	2192.7	2178.6
14°	2079.0	2090.9	2107.4	2128.2	2159.8	2178.8	2191.2	2193.7	2188.7	2178.3	2162.8
14.5°	2059.0	2070.1	2087.4	2108.9	2142.0	2162.5	2175.6	2179.3	2174.4	2163.3	2147.4
15°	2038.5	2050.3	2067.4	2090.1	2123.7	2145.7	2159.8	2163.0	2158.6	2147.2	2131.4
15.5°	2017.7	2029.8	2047.1	2070.4	2105.7	2128.2	2143.7	2147.7	2142.8	2131.6	2115.1
16°	1997.5	2009.3	2027.4	2050.3	2086.9	2110.9	2127.2	2131.4	2126.9	2115.1	2098.3
16.5°	1976.5	1988.8	2006.9	2031.1	2068.4	2093.1	2109.4	2115.6	2110.6	2098.8	2081.0
17°	1956.4	1968.1	1986.6	2010.6	2048.6	2075.0	2091.9	2098.3	2093.6	2082.0	2063.2
17.5°	1935.7	1947.8	1965.8	1990.8	2029.1	2056.0	2074.3	2080.5	2076.5	2064.2	2045.9
18°	1915.4	1927.8	1946.1	1971.0	2010.1	2037.7	2056.0	2062.7	2059.0	2046.9	2027.4
18.5°	1894.9	1907.3	1925.6	1950.8	1990.5	2019.0	2038.0	2045.9	2041.0	2029.3	2009.1
19°	1876.1	1888.0	1906.0	1931.2	1971.3	1999.7	2019.7	2026.6	2023.4	2011.5	1991.3
19.5°	1857.1	1869.0	1887.3	1912.0	1952.7	1981.2	2001.4	2008.8	2005.9	1994.0	1974.0
20°	1839.6	1850.7	1868.5	1893.4	1933.5	1962.4	1982.6	1991.5	1988.6	1976.7	1956.2
20.5°	1820.8	1832.4	1850.2	1874.7	1915.2	1943.6	1964.8	1973.7	1971.0	1959.4	1938.4
21°	1802.5	1813.9	1832.2	1856.1	1896.9	1925.6	1946.6	1955.2	1953.5	1941.9	1920.9



TEST NUMBER: P775981

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1736.8	1752.8	1774.3	1800.8	1840.8	1871.0	1892.9	1902.8	1899.6	1886.8	1864.8
23°	1712.8	1728.6	1751.9	1780.5	1822.0	1850.9	1874.9	1884.0	1880.1	1864.8	1845.0
23.5°	1686.1	1702.2	1727.9	1757.5	1803.0	1831.2	1855.6	1863.8	1857.6	1843.0	1825.2
24°	1657.7	1675.0	1701.7	1733.1	1784.0	1811.2	1836.1	1843.5	1835.1	1821.0	1805.2
24.5°	1627.8	1645.4	1674.3	1707.1	1760.5	1791.4	1816.8	1823.5	1812.6	1799.1	1785.5
25°	1598.4	1615.7	1645.9	1678.7	1735.8	1771.6	1797.6	1803.3	1790.2	1777.1	1761.0
25.5°	1566.5	1584.6	1615.7	1649.1	1709.9	1747.7	1778.0	1783.0	1767.7	1752.6	1736.0
26°	1535.7	1555.2	1584.6	1616.7	1682.2	1722.5	1755.1	1758.0	1742.0	1725.2	1709.9
26.5°	1503.3	1524.3	1551.5	1583.1	1654.3	1696.3	1730.6	1733.6	1716.0	1698.2	1682.2
27°	1471.7	1492.9	1517.6	1549.0	1625.3	1668.6	1704.9	1705.7	1688.8	1671.3	1653.5
27.5°	1438.5	1460.8	1481.5	1515.6	1596.2	1641.4	1678.0	1678.7	1661.4	1644.1	1623.4
28°	1405.9	1428.4	1446.9	1483.0	1565.6	1613.0	1648.3	1649.1	1633.7	1616.2	1592.5
28.5°	1371.6	1395.6	1412.1	1450.7	1532.9	1584.1	1617.2	1619.7	1606.6	1588.0	1560.6
29°	1337.5	1362.0	1377.3	1419.0	1500.6	1553.9	1585.3	1588.5	1577.4	1558.6	1527.7
29.5°	1302.6	1326.9	1344.2	1388.4	1467.2	1523.1	1551.0	1556.9	1547.8	1528.7	1493.6
30°	1267.1	1290.8	1311.5	1357.0	1435.1	1490.9	1515.1	1523.1	1516.9	1497.1	1457.3
30.5°	1230.5	1255.0	1278.9	1326.4	1398.5	1456.8	1477.6	1489.0	1485.7	1465.2	1421.0
31°	1194.9	1219.1	1246.6	1293.3	1364.2	1421.7	1441.5	1453.6	1452.9	1433.1	1384.7
31.5°	1159.6	1182.8	1214.2	1260.9	1330.1	1384.7	1403.2	1417.5	1419.8	1398.8	1347.4
32°	1124.5	1147.2	1181.3	1226.1	1298.2	1348.4	1366.2	1380.7	1385.7	1364.2	1311.3
32.5°	1091.1	1111.7	1148.0	1191.7	1263.1	1312.0	1329.6	1344.9	1352.6	1329.6	1275.2
33°	1057.8	1077.8	1114.9	1155.9	1229.3	1274.2	1294.0	1308.8	1317.5	1295.7	1239.4
33.5°	1023.7	1043.9	1080.8	1119.6	1195.9	1236.2	1258.4	1272.8	1283.1	1259.9	1204.6
34°	990.3	1009.6	1045.7	1082.7	1163.3	1196.6	1223.3	1237.2	1247.1	1223.1	1170.0
34.5°	956.5	974.8	1010.6	1047.9	1127.2	1157.4	1188.5	1202.3	1211.7	1187.8	1135.9
35°	922.1	939.4	976.2	1013.6	1092.4	1118.1	1152.9	1168.0	1174.9	1151.2	1101.3
35.5°	890.5	906.3	942.4	980.4	1056.3	1080.3	1117.8	1133.9	1139.3	1113.4	1067.2
36°	858.4	874.0	909.0	948.1	1022.2	1042.7	1082.5	1099.0	1101.5	1076.3	1033.1
36.5°	825.8	841.8	886.1	915.5	983.2	1006.1	1047.2	1065.2	1064.5	1038.8	998.2
37°	793.4	809.5	852.0	878.2	946.8	969.8	1010.8	1029.9	1026.9	1002.2	962.9
37.5°	761.0	777.3	818.1	847.0	909.3	935.0	974.3	995.0	991.3	965.6	927.6
38°	728.7	745.2	784.3	815.6	873.7	901.1	938.2	959.7	954.7	929.5	891.7
38.5°	698.3	715.6	750.2	784.5	836.1	866.5	902.9	924.4	918.9	894.0	856.9
39°	669.1	686.4	718.8	753.4	801.3	833.2	867.8	889.0	884.1	859.4	822.8
39.5°	640.2	656.5	687.4	720.0	765.5	799.1	833.4	854.7	849.2	824.5	789.4
40°	612.0	626.9	656.3	686.7	732.4	766.7	799.1	819.8	813.7	790.4	755.6
40.5°	583.9	599.2	626.1	654.5	697.5	733.1	766.0	785.7	779.3	756.3	724.5
41°	556.9	571.3	595.7	622.9	665.7	701.2	733.9	753.4	745.0	721.3	691.6
41.5°	530.7	545.6	566.3	592.5	633.5	669.1	701.5	720.5	711.1	687.9	660.2
42°	505.5	519.6	537.9	562.9	602.9	638.5	670.1	688.4	677.0	655.3	628.6
42.5°	480.1	494.4	510.5	534.0	572.8	607.3	639.2	655.8	644.4	623.2	597.7
43°	455.9	469.7	483.1	505.3	543.3	577.4	608.6	624.6	612.3	592.5	567.1
43.5°	432.4	446.2	457.4	476.6	513.9	548.0	578.7	594.2	580.7	560.9	536.9



TEST NUMBER: P775981

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	366.2	379.0	385.0	395.6	433.1	465.5	493.4	502.6	491.5	473.9	449.5
45.5°	345.9	358.3	362.5	370.9	408.7	438.8	466.5	473.2	463.5	446.7	422.0
46°	325.9	338.3	340.7	346.2	384.5	413.9	441.1	445.5	436.6	419.6	395.8
46.5°	306.9	319.0	319.5	323.2	361.5	389.7	414.9	417.1	410.2	393.1	370.4
47°	287.9	299.7	299.7	301.9	339.5	365.9	389.7	390.9	384.2	368.9	345.4
47.5°	270.8	281.7	280.7	281.7	318.2	343.2	364.9	365.2	359.3	345.2	322.2
48°	253.8	264.6	262.7	262.9	298.0	321.7	341.7	341.0	335.3	320.5	300.0
48.5°	237.5	248.1	245.9	246.1	279.0	301.2	318.5	317.3	312.3	298.2	278.7
49°	221.6	232.0	229.3	230.3	260.9	281.2	296.3	295.0	290.3	277.2	258.2
49.5°	206.8	216.7	214.2	215.2	243.6	262.4	275.3	274.3	268.8	256.7	240.9
50°	192.5	201.9	200.1	201.6	229.1	244.6	255.0	254.5	249.3	239.7	223.9
50.5°	178.9	187.8	186.8	188.5	214.2	229.1	237.9	237.5	232.5	222.6	206.8
51°	165.8	174.2	174.2	176.4	199.6	213.5	220.9	220.4	215.5	205.3	189.8
51.5°	153.2	161.3	161.8	164.6	184.8	198.2	203.8	203.6	198.4	188.3	172.7
52°	141.6	149.2	150.2	153.4	170.2	182.6	186.8	186.6	181.4	171.2	158.1
52.5°	130.2	137.6	139.1	142.3	157.6	167.0	169.7	169.7	164.6	155.9	144.5
53°	119.6	126.3	128.2	131.7	145.3	153.9	155.9	155.7	150.7	142.6	132.2
53.5°	109.5	115.6	118.1	121.6	134.2	141.3	143.1	142.1	137.9	130.2	120.3
54°	100.1	105.8	108.5	111.7	123.3	129.0	131.0	129.7	125.8	118.8	109.7
54.5°	91.9	96.9	99.3	102.5	112.7	117.6	119.3	118.1	114.2	107.7	99.6
55°	84.5	88.5	90.9	93.9	103.0	107.2	108.5	107.7	104.3	98.1	91.2
55.5°	77.3	81.3	83.5	86.5	93.9	97.4	98.6	98.1	94.9	89.7	83.0
56°	69.9	74.1	76.1	78.8	85.5	88.5	89.7	89.2	86.5	81.8	74.6
56.5°	62.5	67.0	68.7	71.2	77.6	80.3	81.5	80.8	78.3	73.1	66.7
57°	55.1	59.5	61.3	63.5	69.4	72.1	73.4	72.4	70.4	65.7	59.5
57.5°	49.7	52.4	53.9	55.8	61.8	64.2	65.2	65.0	62.8	58.6	53.1
58°	45.0	47.2	48.4	49.9	55.1	57.1	58.1	57.8	56.1	52.4	47.4
58.5°	40.8	42.7	43.5	44.5	49.2	50.9	51.6	51.6	50.2	46.9	42.5
59°	37.1	38.8	39.3	40.0	43.7	45.0	46.0	46.0	44.7	42.3	38.3
59.5°	33.9	35.3	35.3	36.1	39.0	40.3	41.0	41.0	40.0	37.8	34.3
60°	30.9	32.1	32.4	32.6	35.1	36.1	36.6	36.8	36.1	34.1	31.1
60.5°	28.2	29.4	29.4	29.4	31.6	32.4	32.9	33.4	32.6	31.1	28.4
61°	25.7	26.9	26.9	26.7	28.7	29.4	29.7	30.1	29.4	28.2	25.7
61.5°	23.7	24.7	24.7	24.5	25.9	26.7	26.9	27.4	26.7	25.7	23.7
62°	21.7	22.7	22.5	22.5	23.7	24.2	24.5	25.0	24.5	23.5	22.0
62.5°	20.3	21.0	20.8	20.5	22.0	22.5	22.5	22.7	22.2	21.7	20.5
63°	18.5	19.5	19.3	18.8	20.3	20.8	21.0	21.2	20.8	20.3	18.8
63.5°	17.0	18.0	17.5	17.3	18.5	19.0	19.3	19.5	19.3	18.5	17.3
64°	15.8	16.6	16.3	16.1	17.0	17.3	17.8	18.0	17.8	17.0	15.6
64.5°	14.6	15.3	15.1	14.8	15.3	15.6	16.3	16.6	16.3	15.3	14.3
65°	13.6	14.3	14.1	13.6	14.1	14.3	14.6	14.8	14.6	14.3	13.3
65.5°	12.6	13.1	13.1	12.6	13.1	13.3	13.6	13.8	13.6	13.3	12.4
66°	11.6	12.4	12.1	11.9	12.1	12.4	12.6	12.8	12.6	12.4	11.6





TEST NUMBER: P775981  
 CATALOG NUMBER: HCDJBL1525CSD-HCD4TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.4	9.9	9.6	9.4	9.6	9.9	10.1	10.1	10.1	9.9	9.1
68°	8.6	9.1	9.1	8.9	8.9	9.1	9.4	9.4	9.4	9.1	8.6
68.5°	8.2	8.6	8.6	8.4	8.4	8.4	8.6	8.9	8.6	8.6	7.9
69°	7.7	7.9	7.9	7.7	7.9	7.9	8.2	8.2	8.2	7.9	7.4
69.5°	6.9	7.4	7.4	7.2	7.4	7.4	7.7	7.7	7.7	7.4	6.9
70°	6.4	6.9	6.9	6.7	6.7	6.9	7.2	7.2	7.2	6.9	6.4
70.5°	5.9	6.4	6.4	6.2	6.4	6.4	6.7	6.7	6.7	6.4	5.9
71°	5.7	5.9	5.9	5.7	5.9	5.9	6.2	6.2	6.2	5.9	5.7
71.5°	5.2	5.4	5.4	5.4	5.4	5.4	5.7	5.7	5.7	5.4	5.2
72°	4.7	5.2	5.2	4.9	5.2	5.2	5.2	5.4	5.2	5.2	4.9
72.5°	4.4	4.7	4.7	4.7	4.7	4.9	4.9	4.9	4.9	4.7	4.4
73°	4.0	4.4	4.4	4.2	4.4	4.4	4.7	4.7	4.4	4.4	4.2
73.5°	3.7	4.0	4.0	4.0	4.2	4.2	4.2	4.2	4.2	4.0	4.0
74°	3.5	3.7	3.7	3.7	4.0	4.0	4.0	4.0	4.0	3.7	3.7
74.5°	3.2	3.5	3.5	3.5	3.5	3.7	3.7	3.7	3.7	3.5	3.2
75°	3.0	3.2	3.2	3.2	3.2	3.5	3.5	3.5	3.2	3.2	3.0
75.5°	2.7	3.0	3.0	3.0	3.0	3.2	3.2	3.2	3.0	3.0	2.7
76°	2.5	2.7	2.7	2.7	2.7	3.0	3.0	2.7	2.7	2.7	2.5
76.5°	2.2	2.5	2.5	2.5	2.7	2.7	2.7	2.7	2.5	2.5	2.5
77°	2.0	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5	2.2	2.2
77.5°	1.7	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.0	2.0
78°	1.7	1.7	2.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0	1.7
78.5°	1.5	1.7	1.7	1.7	2.0	2.0	2.0	1.7	1.7	1.7	1.7
79°	1.2	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.5
79.5°	1.2	1.2	1.5	1.5	1.5	1.7	1.5	1.5	1.5	1.2	1.5
80°	1.0	1.2	1.2	1.2	1.5	1.5	1.5	1.2	1.2	1.2	1.2
80.5°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0
81°	0.7	1.0	1.0	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0
81.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	1.0
82°	0.5	0.7	0.7	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7
82.5°	0.5	0.5	0.7	0.7	0.7	1.0	0.7	0.7	0.7	0.5	0.7
83°	0.2	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
83.5°	0.2	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5
84°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5
84.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.5
85°	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
85.5°	0.0	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2
86°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
86.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
87°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775981  
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-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: P775981

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4
0.5°	2360.9	2360.7	2360.9	2360.4	2359.9	2358.7
1°	2360.4	2359.2	2358.7	2358.0	2357.5	2356.7
1.5°	2359.2	2357.2	2356.0	2355.2	2355.0	2354.0
2°	2357.5	2354.8	2353.3	2352.3	2351.8	2351.0
2.5°	2355.0	2351.8	2349.3	2347.8	2347.6	2347.3
3°	2352.5	2348.1	2345.4	2343.4	2342.9	2343.1
3.5°	2349.6	2344.1	2340.4	2338.4	2338.0	2338.2
4°	2345.9	2339.4	2335.2	2332.5	2332.3	2333.0
4.5°	2341.7	2334.5	2329.5	2326.8	2326.1	2327.3
5°	2337.0	2328.8	2323.4	2320.2	2319.2	2320.7
5.5°	2331.5	2322.6	2316.0	2313.0	2312.3	2313.7
6°	2325.8	2316.0	2308.8	2304.8	2304.3	2305.6
6.5°	2319.4	2308.3	2300.9	2296.9	2295.9	2297.7
7°	2312.3	2300.4	2292.0	2287.8	2286.3	2288.5
7.5°	2304.3	2291.7	2282.8	2278.2	2276.7	2278.9
8°	2296.2	2282.4	2273.2	2267.8	2266.3	2268.5
8.5°	2287.1	2272.0	2262.3	2256.9	2255.2	2257.4
9°	2277.4	2261.1	2251.0	2244.8	2242.8	2245.3
9.5°	2266.8	2249.7	2239.1	2231.7	2230.2	2232.9
10°	2255.9	2237.4	2225.8	2218.6	2216.1	2219.3
10.5°	2244.1	2224.0	2211.9	2204.3	2202.1	2204.5
11°	2231.5	2210.5	2197.4	2188.5	2185.5	2189.7
11.5°	2218.4	2196.1	2181.3	2171.7	2169.4	2172.9
12°	2205.0	2180.6	2164.7	2154.4	2151.6	2155.4
12.5°	2190.2	2164.5	2147.4	2136.3	2132.9	2137.3
13°	2175.4	2147.9	2129.7	2117.5	2113.8	2118.8
13.5°	2159.6	2131.1	2111.9	2098.3	2094.8	2099.3
14°	2143.5	2113.6	2092.6	2079.0	2074.8	2079.0
14.5°	2126.2	2095.6	2074.1	2059.7	2054.8	2059.0
15°	2109.9	2077.3	2053.8	2039.2	2033.8	2038.5
15.5°	2092.1	2058.5	2035.0	2019.2	2013.3	2017.7
16°	2074.6	2040.0	2015.0	1998.5	1992.8	1997.5
16.5°	2056.3	2021.4	1996.7	1978.4	1972.8	1976.5
17°	2038.5	2001.7	1976.7	1957.4	1952.2	1956.4
17.5°	2019.9	1983.4	1957.2	1937.9	1931.5	1935.7
18°	2001.2	1964.1	1937.2	1917.7	1911.5	1915.4
18.5°	1982.6	1945.1	1918.6	1898.1	1892.0	1894.9
19°	1964.6	1926.3	1899.9	1880.1	1873.2	1876.1
19.5°	1946.6	1908.8	1881.6	1861.8	1854.4	1857.1
20°	1929.0	1890.2	1863.0	1843.3	1835.9	1839.6
20.5°	1910.5	1871.7	1844.5	1825.0	1817.1	1820.8
21°	1893.4	1852.9	1824.5	1804.7	1798.3	1802.5



TEST NUMBER: P775981

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1837.1	1791.6	1758.3	1738.8	1732.3	1736.8
23°	1818.1	1768.2	1734.1	1712.8	1707.4	1712.8
23.5°	1798.8	1744.9	1708.4	1685.9	1680.9	1686.1
24°	1779.8	1719.7	1681.4	1657.5	1652.0	1657.7
24.5°	1756.8	1693.8	1654.0	1626.3	1621.6	1627.8
25°	1733.1	1666.6	1626.1	1594.2	1591.0	1598.4
25.5°	1707.1	1638.9	1597.2	1560.9	1557.4	1566.5
26°	1680.7	1611.0	1567.5	1527.3	1524.5	1535.7
26.5°	1651.0	1582.1	1536.4	1494.6	1489.7	1503.3
27°	1620.7	1552.7	1504.8	1462.5	1454.6	1471.7
27.5°	1587.5	1521.3	1472.2	1430.4	1419.8	1438.5
28°	1553.7	1489.2	1438.5	1399.3	1385.9	1405.9
28.5°	1517.6	1456.1	1404.2	1368.6	1351.6	1371.6
29°	1480.3	1421.3	1369.9	1337.7	1319.7	1337.5
29.5°	1442.5	1385.7	1335.0	1306.1	1285.8	1302.6
30°	1405.4	1348.9	1300.7	1274.2	1253.7	1267.1
30.5°	1367.1	1312.0	1265.8	1240.4	1221.9	1230.5
31°	1331.1	1274.5	1233.2	1206.3	1189.2	1194.9
31.5°	1295.7	1236.2	1199.1	1170.7	1156.1	1159.6
32°	1260.9	1198.4	1165.5	1134.1	1123.0	1124.5
32.5°	1226.8	1160.1	1131.7	1098.1	1089.2	1091.1
33°	1191.2	1121.5	1096.8	1063.0	1055.1	1057.8
33.5°	1156.6	1082.7	1060.8	1028.1	1021.0	1023.7
34°	1121.8	1046.2	1025.7	993.5	986.6	990.3
34.5°	1086.7	1009.6	989.3	959.0	951.3	956.5
35°	1050.9	973.5	953.3	926.6	917.9	922.1
35.5°	1015.0	939.7	916.5	895.0	884.8	890.5
36°	979.0	905.8	876.2	862.3	853.7	858.4
36.5°	943.1	872.7	842.1	830.0	822.6	825.8
37°	907.3	839.6	807.7	797.4	791.4	793.4
37.5°	872.2	806.7	773.6	765.0	760.5	761.0
38°	838.1	773.6	739.3	732.4	729.4	728.7
38.5°	804.8	740.8	705.4	699.8	699.0	698.3
39°	771.7	708.6	674.1	667.9	668.9	669.1
39.5°	739.5	676.8	642.2	636.0	637.5	640.2
40°	707.4	646.1	610.8	604.6	607.1	612.0
40.5°	676.0	615.5	580.7	574.0	577.7	583.9
41°	645.1	585.1	551.3	543.8	549.0	556.9
41.5°	614.8	555.5	522.1	514.9	520.9	530.7
42°	584.6	527.5	494.4	486.8	492.9	505.5
42.5°	555.7	499.1	467.7	459.1	466.7	480.1
43°	527.3	472.2	441.8	432.2	440.8	455.9
43.5°	499.4	445.7	416.6	405.5	415.8	432.4



TEST NUMBER: P775981

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	420.3	372.4	346.9	333.6	345.7	366.2
45.5°	395.6	349.4	325.9	311.8	323.9	345.9
46°	371.1	327.6	305.6	291.1	303.2	325.9
46.5°	347.2	306.9	285.9	271.6	283.7	306.9
47°	324.2	286.9	267.6	254.0	265.4	287.9
47.5°	301.4	267.1	250.1	237.7	247.8	270.8
48°	280.0	249.1	233.5	221.9	231.8	253.8
48.5°	260.2	232.0	217.7	207.3	216.4	237.5
49°	240.7	215.5	202.4	193.5	201.9	221.6
49.5°	223.9	199.9	188.0	181.1	189.0	206.8
50°	207.1	184.6	174.4	169.0	175.9	192.5
50.5°	190.3	170.2	161.3	157.1	164.1	178.9
51°	173.5	156.9	149.0	146.0	152.5	165.8
51.5°	159.4	144.1	137.4	135.7	141.3	153.2
52°	146.3	132.2	126.3	125.5	130.7	141.6
52.5°	133.4	120.3	115.9	115.6	120.8	130.2
53°	122.1	109.5	106.0	106.0	111.2	119.6
53.5°	111.2	99.6	96.9	97.4	102.0	109.5
54°	101.1	90.7	88.2	89.2	93.4	100.1
54.5°	92.2	83.3	81.0	82.0	86.5	91.9
55°	84.0	75.9	73.9	74.9	79.1	84.5
55.5°	75.9	68.2	66.5	67.7	71.7	77.3
56°	67.7	60.8	59.3	60.5	64.2	69.9
56.5°	60.5	53.4	52.1	53.4	56.8	62.5
57°	53.9	47.4	46.5	47.7	50.9	55.1
57.5°	47.9	42.5	41.8	43.0	46.0	49.7
58°	42.7	38.3	37.6	38.8	41.8	45.0
58.5°	38.5	34.3	34.1	35.1	37.8	40.8
59°	34.6	31.1	30.9	32.1	34.6	37.1
59.5°	31.4	28.2	27.9	29.2	31.4	33.9
60°	28.4	25.7	25.5	26.7	28.9	30.9
60.5°	25.9	23.5	23.2	24.5	26.4	28.2
61°	23.7	21.5	21.2	22.5	24.2	25.7
61.5°	22.0	19.8	19.5	20.8	22.5	23.7
62°	20.3	18.0	18.0	19.0	20.8	21.7
62.5°	18.8	16.6	16.6	17.5	19.0	20.3
63°	17.0	15.3	15.3	16.3	17.5	18.5
63.5°	15.6	14.1	14.3	15.1	16.3	17.0
64°	14.3	13.1	13.1	13.8	15.1	15.8
64.5°	13.3	12.1	12.1	12.8	13.8	14.6
65°	12.4	11.4	11.4	11.9	12.8	13.6
65.5°	11.4	10.4	10.6	11.1	12.1	12.6
66°	10.6	9.6	9.9	10.4	11.1	11.6



TEST NUMBER: P775981

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	8.4	7.9	7.9	8.4	8.9	9.4
68°	7.9	7.4	7.4	7.9	8.4	8.6
68.5°	7.4	6.9	6.9	7.2	7.7	8.2
69°	6.9	6.4	6.4	6.7	7.2	7.7
69.5°	6.4	5.9	5.9	6.2	6.7	6.9
70°	5.9	5.4	5.4	5.9	6.2	6.4
70.5°	5.7	5.2	5.2	5.4	5.7	5.9
71°	5.2	4.7	4.7	4.9	5.2	5.7
71.5°	4.9	4.4	4.4	4.7	4.9	5.2
72°	4.4	4.2	4.2	4.4	4.4	4.7
72.5°	4.2	3.7	3.7	4.0	4.2	4.4
73°	4.0	3.5	3.5	3.7	4.0	4.0
73.5°	3.7	3.2	3.2	3.5	3.5	3.7
74°	3.5	3.0	3.0	3.2	3.2	3.5
74.5°	3.2	2.7	2.7	3.0	3.0	3.2
75°	3.0	2.5	2.5	2.7	2.7	3.0
75.5°	2.7	2.5	2.5	2.5	2.5	2.7
76°	2.5	2.2	2.2	2.2	2.2	2.5
76.5°	2.2	2.0	2.0	2.0	2.0	2.2
77°	2.0	1.7	1.7	1.7	2.0	2.0
77.5°	2.0	1.7	1.7	1.7	1.7	1.7
78°	1.7	1.5	1.5	1.5	1.5	1.7
78.5°	1.5	1.5	1.5	1.5	1.5	1.5
79°	1.5	1.2	1.2	1.2	1.2	1.2
79.5°	1.2	1.2	1.2	1.2	1.0	1.2
80°	1.2	1.0	1.0	1.0	1.0	1.0
80.5°	1.0	1.0	1.0	1.0	0.7	1.0
81°	1.0	0.7	0.7	0.7	0.7	0.7
81.5°	0.7	0.7	0.7	0.7	0.7	0.7
82°	0.7	0.7	0.7	0.5	0.5	0.5
82.5°	0.7	0.5	0.5	0.5	0.5	0.5
83°	0.5	0.5	0.5	0.5	0.5	0.2
83.5°	0.5	0.5	0.5	0.5	0.2	0.2
84°	0.5	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.2	0.2
85.5°	0.2	0.2	0.2	0.2	0.0	0.0
86°	0.2	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775981

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-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

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

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	1782.0	1794.9	1813.6	1837.8	1878.9	1907.3	1928.5	1937.7	1935.9	1924.1	1903.1
22°	1760.8	1775.6	1794.6	1819.8	1859.8	1889.5	1910.2	1920.1	1918.1	1905.8	1884.8



44°	409.4	422.8	432.4	449.2	486.3	519.6	549.5	562.9	550.3	530.5	507.0
44.5°	387.7	400.5	408.2	422.0	459.6	491.5	521.1	532.0	520.4	502.3	478.1



66.5°	10.9	11.4	11.4	10.9	11.1	11.4	11.6	11.9	11.6	11.4	10.6
67°	10.1	10.6	10.4	10.1	10.4	10.6	10.9	10.9	10.9	10.6	9.9



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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21.5°	1875.4	1833.4	1803.7	1783.2	1778.0	1782.0
22°	1856.1	1812.6	1781.5	1761.7	1755.8	1760.8



44°	472.4	420.5	392.6	381.0	391.9	409.4
44.5°	446.5	396.1	369.2	356.8	368.7	387.7

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66.5°	9.9	9.1	9.1	9.6	10.4	10.9
67°	9.1	8.4	8.6	9.1	9.6	10.1

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Peachtree City, GA 30269

Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



(END OF REPORT)