

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: P775955

Luminaire Tested: HCDJBL51525CSD-HCD42TRH-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B050)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD42TRH-2500lm-2700K
Description: 4 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2432.8 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.92
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

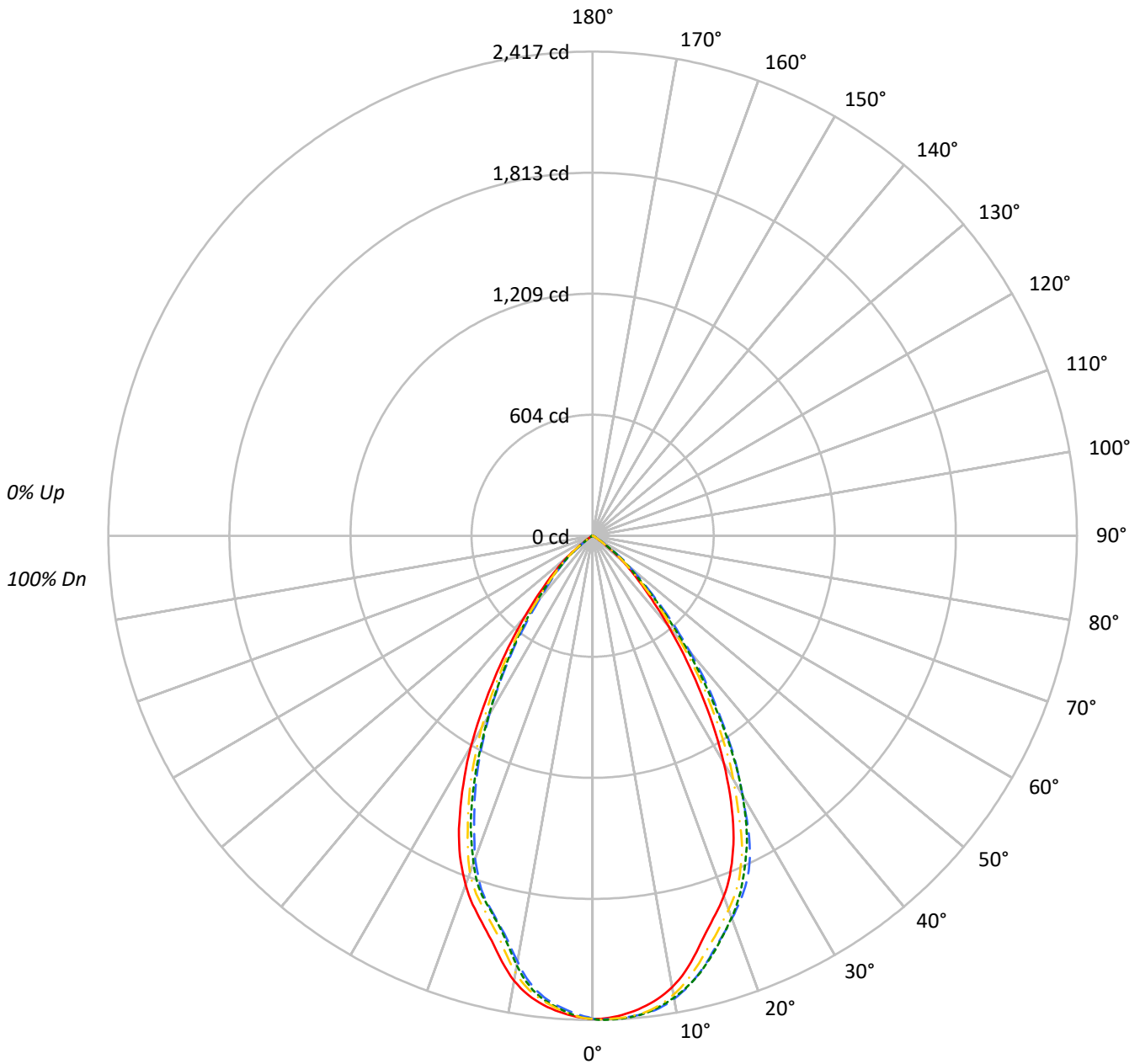
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86																			
3	101	95	89	85	99	93	88	84	90	86	83	88	85	82	86	83	80	79																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																			
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																			
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50																			
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	303424	303424	303424	303424
5°	300793	304128	299353	296788
10°	292386	299134	288233	278432
15°	273360	287496	266389	253647
20°	256483	271750	248300	232805
25°	231188	250350	218649	196209
30°	190251	217411	176344	150972
35°	141451	168767	128054	108865
40°	96633	117678	86332	74043
45°	62061	73523	55031	47111
50°	37356	42584	32050	25942
55°	14240	16851	10093	7855
60°	4807	5663	4027	3222
65°	2293	2442	1876	1519
70°	1067	1251	883	810
75°	583	729	486	486
80°	362	362	145	145
85°	0	289	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 81799 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	9.2
10°-20°	582.3	23.9
20°-30°	730.5	30.0
30°-40°	557.8	22.9
40°-50°	265.8	10.9
50°-60°	63.6	2.6
60°-70°	7.9	0.3
70°-80°	1.4	0.1
80°-90°	0.1	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°	1536.1	63.1
0°-40°	2093.9	86.1
0°-60°	2423.4	99.6
0°-90°	2432.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2432.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2411	2411	2411	2411	2411	
5°	2381	2407	2370	2349	2381	224
15°	2098	2207	2045	1947	2098	590
25°	1665	1803	1575	1413	1665	753
35°	921	1098	834	709	921	575
45°	349	413	309	265	349	276
55°	65	77	46	36	65	70
65°	8	8	6	5	8	8
75°	1	2	1	1	1	1
85°	0	0	0	0	0	0
90°	0	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°	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0
0.5°	2411.7	2411.3	2411.0	2410.5	2415.6	2415.1	2414.2	2412.5	2409.8	2405.7	2403.7
1°	2411.5	2412.7	2413.4	2412.9	2416.8	2416.6	2414.6	2412.0	2407.6	2401.8	2399.4
1.5°	2410.0	2412.7	2414.2	2414.6	2417.3	2416.8	2414.4	2411.0	2405.4	2396.7	2393.1
2°	2407.6	2412.5	2414.6	2415.6	2417.1	2416.8	2413.9	2409.6	2401.6	2391.4	2386.6
2.5°	2404.7	2411.0	2414.2	2415.6	2416.3	2416.1	2412.9	2407.6	2397.7	2385.3	2380.0
3°	2400.8	2408.8	2412.9	2415.4	2415.6	2415.4	2411.5	2405.2	2393.1	2379.0	2372.7
3.5°	2396.5	2407.1	2411.5	2414.4	2414.2	2414.2	2410.0	2402.5	2388.2	2372.0	2365.0
4°	2391.6	2404.2	2409.6	2413.4	2412.5	2412.9	2408.6	2399.4	2382.4	2365.0	2356.8
4.5°	2386.3	2400.8	2407.9	2411.5	2410.5	2411.0	2406.4	2395.8	2376.6	2357.0	2348.3
5°	2381.0	2397.2	2405.9	2409.8	2407.4	2408.6	2403.7	2391.2	2369.6	2348.5	2338.4
5.5°	2374.7	2393.6	2403.3	2407.9	2404.5	2405.7	2400.4	2385.8	2362.6	2339.6	2327.7
6°	2367.7	2389.2	2400.6	2405.4	2399.9	2401.8	2396.0	2380.3	2354.6	2329.6	2316.3
6.5°	2360.2	2384.4	2397.2	2401.8	2395.3	2396.7	2390.7	2373.5	2345.9	2318.5	2302.8
7°	2352.4	2379.0	2393.1	2397.9	2389.7	2391.2	2384.6	2366.0	2336.2	2306.2	2288.0
7.5°	2344.2	2372.5	2388.2	2393.3	2382.9	2384.1	2376.6	2357.0	2325.8	2291.9	2271.5
8°	2334.5	2365.0	2382.2	2387.8	2375.7	2376.4	2368.4	2347.6	2314.4	2276.6	2252.4
8.5°	2324.3	2356.5	2374.7	2381.0	2367.4	2367.9	2358.7	2337.4	2301.3	2259.4	2232.3
9°	2312.9	2347.3	2366.5	2373.2	2359.4	2358.0	2348.5	2326.3	2287.5	2240.5	2209.3
9.5°	2301.1	2337.4	2357.3	2365.0	2350.0	2348.5	2337.2	2314.4	2272.0	2219.5	2185.3
10°	2288.0	2326.3	2347.1	2355.8	2340.8	2337.4	2325.3	2300.8	2255.5	2196.7	2158.4
10.5°	2273.5	2314.1	2336.2	2346.4	2330.6	2326.3	2312.4	2286.5	2237.4	2172.2	2133.0
11°	2258.2	2301.8	2324.1	2335.9	2320.0	2314.1	2298.6	2270.6	2216.8	2147.8	2106.6
11.5°	2241.5	2288.2	2312.2	2325.0	2309.1	2301.3	2283.4	2254.1	2195.5	2122.8	2080.5
12°	2223.6	2273.7	2298.9	2314.1	2296.7	2288.0	2267.9	2236.7	2173.2	2097.9	2057.0
12.5°	2204.4	2257.7	2284.6	2301.6	2283.9	2273.0	2251.7	2217.8	2150.7	2075.4	2035.2
13°	2183.6	2241.0	2269.6	2289.0	2270.8	2258.2	2234.0	2197.9	2127.7	2053.8	2014.8
13.5°	2162.1	2223.3	2253.6	2275.2	2256.5	2241.7	2216.1	2177.8	2105.6	2032.7	1996.2
14°	2141.0	2205.4	2237.4	2261.1	2241.3	2225.0	2197.7	2157.0	2083.8	2012.9	1977.5
14.5°	2119.9	2186.5	2220.7	2246.3	2224.1	2207.3	2178.8	2135.9	2064.0	1994.5	1959.1
15°	2098.1	2166.4	2203.5	2229.9	2206.6	2189.7	2159.6	2116.1	2044.6	1975.6	1941.0
15.5°	2077.8	2147.3	2185.8	2214.1	2189.9	2171.8	2140.8	2096.7	2026.0	1957.9	1924.0
16°	2057.9	2127.9	2166.4	2196.5	2172.2	2154.3	2123.6	2077.8	2007.1	1940.0	1906.6
16.5°	2040.0	2109.0	2148.5	2179.5	2155.5	2136.4	2106.4	2059.4	1989.2	1922.6	1888.7
17°	2021.4	2090.1	2131.8	2162.1	2137.6	2119.4	2089.4	2040.7	1971.2	1904.9	1869.8
17.5°	2003.2	2072.7	2115.1	2145.1	2119.7	2102.0	2071.7	2022.8	1953.6	1885.8	1849.7
18°	1985.3	2055.5	2098.4	2128.2	2101.8	2084.1	2054.1	2005.4	1936.1	1865.4	1823.0
18.5°	1968.1	2038.1	2082.4	2111.0	2082.9	2066.9	2036.9	1987.9	1917.2	1839.7	1796.4
19°	1951.1	2021.6	2066.4	2094.0	2065.0	2049.2	2019.9	1971.0	1897.1	1814.3	1769.8
19.5°	1933.5	2004.4	2049.5	2076.1	2046.6	2032.5	2003.0	1953.6	1875.8	1788.6	1743.1
20°	1915.1	1987.9	2033.0	2058.9	2029.1	2014.8	1985.8	1935.4	1854.0	1763.0	1714.5
20.5°	1895.4	1971.5	2016.8	2041.9	2010.7	1996.7	1967.8	1916.3	1829.3	1737.3	1681.8
21°	1873.9	1954.8	2000.3	2024.3	1990.4	1978.5	1949.9	1895.7	1804.6	1705.3	1645.8



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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°	1802.7	1898.1	1947.7	1969.3	1926.9	1915.8	1889.9	1826.4	1730.5	1605.1	1545.8
23°	1777.0	1877.5	1928.6	1948.2	1903.4	1894.5	1868.8	1800.8	1702.2	1574.1	1511.8
23.5°	1749.9	1855.7	1909.5	1927.4	1878.7	1869.8	1841.9	1775.1	1671.9	1543.6	1479.9
24°	1722.3	1831.7	1888.7	1905.4	1854.3	1843.6	1814.8	1749.4	1640.7	1512.3	1447.9
24.5°	1694.4	1806.6	1866.6	1880.9	1828.6	1817.2	1787.9	1725.2	1608.7	1482.5	1415.7
25°	1664.9	1779.9	1843.1	1856.9	1802.9	1791.1	1761.0	1695.4	1574.6	1451.5	1382.5
25.5°	1633.7	1752.1	1816.7	1830.3	1777.0	1764.7	1733.9	1664.9	1539.5	1418.6	1348.4
26°	1600.7	1722.8	1789.6	1803.2	1751.3	1738.5	1698.3	1632.7	1503.6	1384.7	1313.5
26.5°	1566.3	1691.8	1758.4	1775.8	1725.4	1707.5	1661.7	1598.1	1468.3	1349.1	1278.2
27°	1531.5	1659.8	1725.9	1748.0	1696.6	1675.6	1622.5	1561.0	1433.6	1311.3	1241.3
27.5°	1495.9	1625.9	1689.8	1720.1	1666.1	1642.9	1584.5	1524.4	1397.1	1273.8	1205.5
28°	1458.8	1590.3	1651.1	1688.6	1634.4	1609.0	1546.7	1485.7	1361.7	1236.0	1169.7
28.5°	1421.8	1551.8	1612.6	1657.1	1599.8	1573.4	1510.4	1445.0	1325.6	1198.7	1134.8
29°	1383.5	1512.1	1572.6	1624.5	1567.3	1535.3	1474.8	1405.1	1289.5	1161.2	1099.0
29.5°	1347.2	1471.6	1533.9	1590.3	1531.0	1498.0	1439.4	1366.3	1252.0	1125.6	1064.1
30°	1309.2	1431.4	1496.3	1554.0	1496.1	1458.6	1403.8	1326.1	1213.5	1090.7	1030.2
30.5°	1270.2	1391.2	1460.5	1516.2	1459.8	1418.6	1368.2	1287.1	1175.5	1055.4	996.0
31°	1231.7	1352.5	1425.4	1478.4	1424.4	1380.8	1331.9	1247.4	1137.0	1021.0	960.9
31.5°	1192.4	1313.5	1390.0	1437.5	1385.7	1342.3	1293.9	1209.1	1097.7	985.6	925.8
32°	1153.2	1275.5	1354.2	1398.8	1347.9	1305.8	1255.6	1170.4	1057.8	949.3	890.4
32.5°	1114.2	1237.0	1317.1	1358.8	1306.5	1268.0	1216.6	1132.1	1017.6	912.7	855.6
33°	1075.0	1199.0	1279.9	1319.8	1265.8	1230.2	1176.9	1094.4	979.6	876.2	820.7
33.5°	1037.0	1160.2	1239.9	1281.3	1223.4	1193.2	1137.7	1056.8	940.8	839.3	785.6
34°	997.2	1121.2	1200.7	1243.0	1182.3	1155.4	1099.2	1019.3	903.8	802.1	751.9
34.5°	959.0	1081.8	1160.9	1204.5	1140.4	1116.6	1061.2	982.2	867.9	767.2	719.0
35°	920.7	1043.3	1120.7	1166.3	1098.5	1077.6	1024.4	946.9	833.5	732.3	687.3
35.5°	882.9	1005.2	1082.2	1127.8	1057.8	1038.4	988.3	911.5	798.2	699.1	655.1
36°	848.6	968.2	1045.4	1089.0	1017.6	999.9	952.2	876.4	764.8	666.0	623.6
36.5°	813.9	932.3	1009.4	1049.1	975.9	961.2	915.4	842.5	731.3	634.7	593.3
37°	779.3	896.7	972.3	1012.0	936.5	922.4	879.1	808.6	699.4	604.7	562.8
37.5°	744.9	857.8	936.7	972.3	897.7	885.1	841.3	775.9	667.7	575.1	534.5
38°	710.3	825.8	900.4	934.3	861.1	848.8	804.7	742.0	638.4	546.3	506.1
38.5°	677.6	793.6	862.6	894.8	821.9	812.0	769.1	708.8	607.4	518.0	479.5
39°	646.8	761.6	827.0	859.4	786.8	775.9	734.2	676.1	579.3	491.4	454.8
39.5°	617.0	729.6	791.4	822.6	751.7	739.1	700.3	644.9	551.7	466.2	432.5
40°	588.2	696.7	755.6	786.1	716.3	703.0	666.7	612.9	525.5	442.7	411.0
40.5°	559.2	665.0	720.0	749.5	681.0	667.9	635.0	582.2	498.9	420.4	390.4
41°	531.8	632.3	685.3	712.9	648.3	633.8	604.7	553.1	474.2	400.1	372.0
41.5°	505.6	601.5	653.4	678.6	614.9	599.6	574.4	525.5	450.7	380.2	355.3
42°	480.2	570.5	621.6	644.6	584.3	566.4	543.9	497.9	428.2	362.8	338.3
42.5°	456.0	541.2	590.6	611.7	553.1	535.2	514.6	472.2	405.9	344.8	322.1
43°	433.2	513.4	560.9	578.8	523.3	504.9	485.8	447.0	384.8	328.1	306.6
43.5°	410.2	486.3	530.8	547.3	494.3	476.6	457.7	423.1	364.9	311.9	291.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	348.7	411.0	444.6	459.6	413.1	398.1	380.0	356.7	309.2	266.4	248.2
45.5°	329.8	388.0	417.7	433.5	388.4	374.9	357.7	336.4	292.3	252.1	234.7
46°	311.2	365.7	392.1	407.8	364.0	352.8	336.1	317.2	275.8	238.0	222.6
46.5°	293.7	345.6	369.8	384.3	341.7	331.8	316.3	298.8	260.1	224.7	210.4
47°	277.0	325.7	348.2	361.3	319.9	311.4	297.4	280.9	244.3	212.1	198.1
47.5°	261.1	306.8	327.4	339.8	300.3	292.5	279.9	264.0	230.3	199.8	186.0
48°	245.6	288.7	308.0	319.4	281.4	274.6	263.0	248.0	217.0	187.2	173.9
48.5°	230.3	271.5	290.1	299.6	263.2	257.4	247.0	232.7	203.9	174.8	160.3
49°	216.3	254.8	272.7	281.9	246.8	241.2	231.8	219.2	190.6	160.6	145.3
49.5°	203.9	239.0	256.2	263.7	230.8	227.6	218.4	205.6	177.3	145.1	130.0
50°	190.8	224.2	240.2	247.7	217.5	214.1	205.1	192.3	163.7	129.8	114.8
50.5°	178.5	210.4	225.2	231.0	204.1	200.3	191.6	178.7	147.7	114.5	101.2
51°	165.4	196.9	211.2	216.7	190.6	186.7	178.2	165.2	131.7	100.3	88.1
51.5°	150.9	184.0	197.9	202.9	177.3	173.1	164.7	149.7	116.2	87.4	76.5
52°	135.4	170.7	184.3	189.6	163.7	159.3	148.9	133.7	101.7	76.5	67.1
52.5°	120.4	156.2	170.7	177.0	148.9	144.1	132.7	117.7	88.6	66.8	58.8
53°	105.3	140.2	156.0	163.0	132.9	127.9	116.7	102.9	77.3	58.8	51.8
53.5°	91.8	124.5	139.7	148.2	117.7	112.1	102.2	89.4	67.6	51.8	45.8
54°	82.8	109.0	123.0	131.7	102.4	97.8	88.4	78.0	59.3	46.0	40.7
54.5°	73.9	95.2	107.5	116.2	88.6	84.8	76.5	68.0	52.3	40.7	36.3
55°	64.9	82.3	93.7	100.5	76.8	73.4	66.6	59.6	46.0	36.3	32.5
55.5°	55.9	74.1	82.1	87.7	66.4	63.7	58.4	52.1	40.9	32.5	29.1
56°	47.2	65.6	73.4	78.9	57.6	55.2	51.1	46.0	36.3	29.1	26.2
56.5°	41.7	57.2	64.9	70.2	50.4	48.7	45.0	40.7	32.5	26.2	23.5
57°	36.8	48.9	56.4	61.5	44.3	42.9	39.7	36.1	29.1	23.7	21.6
57.5°	32.9	43.3	47.9	53.0	39.0	37.8	35.4	32.2	26.2	21.8	19.9
58°	29.3	38.5	42.4	44.3	34.6	33.7	31.5	28.8	23.5	19.9	17.9
58.5°	26.4	34.1	37.5	39.0	30.8	30.0	28.1	25.7	21.6	17.9	16.2
59°	23.7	30.5	33.4	34.6	27.4	26.6	25.2	23.2	19.9	16.2	14.3
59.5°	21.3	27.4	29.8	30.8	24.5	24.0	23.2	21.3	17.9	14.3	13.1
60°	19.1	24.5	26.6	27.4	22.5	22.0	21.3	19.6	16.0	13.1	11.9
60.5°	17.4	22.0	24.0	24.5	20.6	20.1	19.4	17.7	14.3	11.9	10.7
61°	15.7	19.9	21.6	22.0	18.6	18.2	17.4	15.7	12.8	10.7	9.9
61.5°	14.3	17.9	19.4	19.9	16.7	16.2	15.5	14.0	11.6	9.9	9.0
62°	12.8	16.2	17.4	17.9	14.5	14.3	13.6	12.6	10.7	9.0	8.2
62.5°	11.9	14.8	16.0	16.2	13.3	13.1	12.4	11.6	9.7	8.2	7.5
63°	10.7	13.3	14.5	14.8	12.1	11.9	11.1	10.4	9.0	7.5	6.8
63.5°	9.7	12.1	13.1	13.3	10.9	10.7	10.2	9.4	8.0	6.8	6.3
64°	9.0	11.1	11.9	12.1	9.9	9.7	9.2	8.7	7.5	6.3	5.8
64.5°	8.2	10.2	10.9	10.9	9.0	9.0	8.5	8.0	6.8	5.8	5.3
65°	7.7	9.2	9.9	9.9	8.2	8.2	7.7	7.3	6.3	5.3	4.8
65.5°	7.0	8.5	9.0	9.2	7.5	7.5	7.0	6.5	5.8	4.8	4.4
66°	6.3	7.7	8.2	8.5	7.0	6.8	6.5	6.1	5.1	4.4	4.1



TEST NUMBER: P775955

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	4.8	5.8	6.3	6.3	5.3	5.3	4.8	4.6	3.9	3.4	3.1
68°	4.4	5.3	5.8	5.8	4.8	4.8	4.6	4.4	3.6	3.1	2.9
68.5°	3.9	4.8	5.3	5.3	4.4	4.4	4.1	3.9	3.4	2.9	2.7
69°	3.6	4.6	4.8	4.8	4.1	4.1	3.9	3.6	3.1	2.7	2.4
69.5°	3.4	4.1	4.4	4.6	3.9	3.6	3.4	3.4	2.7	2.4	2.2
70°	2.9	3.9	4.1	4.1	3.4	3.4	3.1	2.9	2.4	2.2	1.9
70.5°	2.7	3.4	3.6	3.9	3.1	3.1	2.9	2.7	2.4	1.9	1.9
71°	2.4	3.1	3.4	3.4	2.9	2.9	2.7	2.4	2.2	1.9	1.7
71.5°	2.2	2.9	3.1	3.1	2.7	2.7	2.4	2.4	1.9	1.7	1.7
72°	2.2	2.7	2.9	2.9	2.4	2.4	2.2	2.2	1.7	1.5	1.5
72.5°	1.9	2.4	2.7	2.7	2.2	2.2	2.2	1.9	1.7	1.5	1.2
73°	1.7	2.2	2.4	2.4	2.2	1.9	1.9	1.7	1.5	1.2	1.2
73.5°	1.7	1.9	2.2	2.2	1.9	1.9	1.7	1.7	1.2	1.2	1.2
74°	1.5	1.9	1.9	2.2	1.7	1.7	1.7	1.5	1.2	1.0	1.0
74.5°	1.2	1.7	1.9	1.9	1.7	1.5	1.5	1.5	1.2	1.0	1.0
75°	1.2	1.5	1.7	1.7	1.5	1.5	1.5	1.2	1.0	0.7	0.7
75.5°	1.0	1.5	1.5	1.7	1.5	1.2	1.2	1.2	1.0	0.7	0.7
76°	1.0	1.2	1.5	1.5	1.2	1.2	1.2	1.0	0.7	0.7	0.7
76.5°	1.0	1.2	1.2	1.5	1.2	1.2	1.0	1.0	0.7	0.5	0.5
77°	0.7	1.0	1.2	1.2	1.0	1.0	1.0	0.7	0.7	0.5	0.5
77.5°	0.7	1.0	1.0	1.2	1.0	1.0	0.7	0.7	0.5	0.5	0.5
78°	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.5	0.5	0.5
78.5°	0.5	0.7	1.0	1.0	0.7	0.7	0.7	0.5	0.5	0.5	0.5
79°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.2	0.2
79.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.2	0.2
80°	0.5	0.5	0.7	0.7	0.5	0.5	0.5	0.5	0.2	0.2	0.2
80.5°	0.2	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.2	0.2	0.2
81°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
81.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.0	0.2
82.5°	0.2	0.2	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.0	0.0
83°	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0
83.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
84°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
84.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.2	0.0	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	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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	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: P775955

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-2700K

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: P775955

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0
0.5°	2402.3	2410.8	2411.0	2410.8	2410.5	2411.7
1°	2396.7	2407.1	2407.6	2407.9	2408.1	2411.5
1.5°	2390.4	2402.5	2402.8	2403.7	2405.2	2410.0
2°	2383.6	2396.7	2397.7	2398.7	2400.8	2407.6
2.5°	2376.1	2390.4	2391.2	2392.8	2395.5	2404.7
3°	2367.9	2383.2	2384.4	2386.3	2389.9	2400.8
3.5°	2359.7	2375.7	2376.9	2379.3	2383.9	2396.5
4°	2350.5	2367.4	2368.6	2371.8	2377.1	2391.6
4.5°	2341.3	2358.7	2359.7	2363.5	2369.8	2386.3
5°	2330.1	2349.3	2351.0	2355.1	2362.6	2381.0
5.5°	2318.3	2339.1	2341.0	2346.1	2354.6	2374.7
6°	2305.4	2328.2	2330.6	2336.4	2345.9	2367.7
6.5°	2289.4	2315.8	2318.3	2325.8	2336.4	2360.2
7°	2273.2	2301.8	2305.4	2314.4	2326.5	2352.4
7.5°	2253.1	2286.8	2290.7	2302.0	2316.1	2344.2
8°	2233.3	2268.6	2274.9	2288.0	2304.0	2334.5
8.5°	2209.5	2249.2	2256.8	2272.3	2290.7	2324.3
9°	2185.1	2227.7	2236.7	2255.1	2276.6	2312.9
9.5°	2158.2	2204.2	2214.1	2235.9	2261.1	2301.1
10°	2131.3	2178.8	2190.4	2214.6	2244.2	2288.0
10.5°	2104.4	2151.7	2165.0	2191.6	2224.5	2273.5
11°	2078.3	2124.3	2138.8	2167.4	2204.0	2258.2
11.5°	2052.1	2096.7	2110.7	2141.7	2182.2	2241.5
12°	2031.3	2070.5	2085.3	2115.8	2158.4	2223.6
12.5°	2010.7	2046.3	2059.6	2089.9	2133.7	2204.4
13°	1991.3	2023.8	2037.6	2066.9	2110.2	2183.6
13.5°	1972.9	2003.0	2017.0	2044.1	2087.2	2162.1
14°	1954.0	1983.3	1997.4	2024.0	2065.0	2141.0
14.5°	1938.1	1965.4	1979.5	2005.1	2044.1	2119.9
15°	1919.9	1946.8	1961.3	1986.3	2024.3	2098.1
15.5°	1903.9	1929.6	1943.9	1967.8	2005.4	2077.8
16°	1887.7	1913.4	1926.2	1949.7	1986.3	2057.9
16.5°	1869.3	1896.6	1909.7	1932.5	1967.6	2040.0
17°	1849.7	1880.9	1892.8	1914.8	1950.9	2021.4
17.5°	1824.0	1863.2	1875.8	1897.4	1933.0	2003.2
18°	1798.6	1842.6	1856.0	1879.9	1915.5	1985.3
18.5°	1773.1	1819.6	1834.4	1859.8	1897.1	1968.1
19°	1747.7	1794.7	1811.9	1839.0	1878.0	1951.1
19.5°	1722.0	1767.3	1786.5	1814.6	1856.9	1933.5
20°	1691.1	1738.3	1758.9	1789.1	1834.7	1915.1
20.5°	1657.6	1708.2	1730.5	1761.3	1810.2	1895.4
21°	1624.7	1678.5	1699.5	1731.0	1783.8	1873.9



TEST NUMBER: P775955

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1523.2	1588.4	1600.7	1631.0	1694.0	1802.7
23°	1487.6	1556.4	1565.6	1596.4	1662.2	1777.0
23.5°	1454.7	1523.2	1530.7	1563.2	1629.3	1749.9
24°	1417.4	1487.4	1496.6	1529.5	1597.1	1722.3
24.5°	1383.5	1452.0	1460.5	1495.6	1563.9	1694.4
25°	1347.7	1413.0	1425.6	1463.2	1532.7	1664.9
25.5°	1312.5	1376.5	1390.8	1429.3	1500.5	1633.7
26°	1276.9	1339.4	1354.9	1395.8	1468.7	1600.7
26.5°	1242.3	1302.4	1320.5	1360.7	1436.0	1566.3
27°	1206.2	1263.1	1283.7	1325.4	1401.7	1531.5
27.5°	1171.4	1225.6	1247.6	1289.5	1367.0	1495.9
28°	1135.3	1187.6	1211.3	1250.5	1331.2	1458.8
28.5°	1099.4	1149.1	1175.7	1215.7	1294.4	1421.8
29°	1061.7	1112.0	1138.9	1178.6	1257.3	1383.5
29.5°	1024.1	1074.7	1103.3	1142.8	1218.1	1347.2
30°	988.3	1038.9	1067.2	1107.9	1180.8	1309.2
30.5°	951.0	1003.5	1029.9	1072.1	1142.1	1270.2
31°	916.4	969.4	993.4	1037.0	1103.8	1231.7
31.5°	881.7	935.2	956.6	1001.8	1065.8	1192.4
32°	848.3	902.1	921.2	966.7	1029.2	1153.2
32.5°	815.9	867.4	886.1	931.6	993.1	1114.2
33°	782.7	835.5	853.4	895.5	956.6	1075.0
33.5°	751.4	803.5	820.5	857.0	920.2	1037.0
34°	719.5	771.5	787.5	823.9	883.9	997.2
34.5°	689.2	739.6	754.6	790.7	848.1	959.0
35°	659.4	708.6	721.9	757.5	812.2	920.7
35.5°	629.9	680.0	690.7	724.3	776.4	882.9
36°	601.5	651.4	660.6	691.6	740.5	848.6
36.5°	574.7	625.0	630.8	659.4	704.9	813.9
37°	548.3	597.2	602.5	627.2	671.0	779.3
37.5°	523.3	570.8	574.4	595.5	638.8	744.9
38°	498.6	544.9	547.8	564.7	607.4	710.3
38.5°	474.6	519.7	521.9	534.7	578.3	677.6
39°	452.4	496.7	496.7	505.2	550.0	646.8
39.5°	429.4	472.5	473.2	478.0	522.1	617.0
40°	408.5	450.7	449.5	451.9	495.0	588.2
40.5°	387.7	428.4	427.2	428.2	468.8	559.2
41°	368.1	407.8	405.4	405.6	444.6	531.8
41.5°	349.9	387.0	384.6	385.5	421.4	505.6
42°	332.0	367.9	365.2	366.4	400.1	480.2
42.5°	315.3	349.0	346.5	348.7	379.0	456.0
43°	298.1	330.8	328.6	331.8	359.6	433.2
43.5°	282.6	313.4	311.7	316.0	341.2	410.2



TEST NUMBER: P775955

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	238.3	264.7	264.4	270.7	291.8	348.7
45.5°	225.2	249.4	249.7	256.9	276.6	329.8
46°	213.1	234.9	235.6	242.9	261.8	311.2
46.5°	201.0	221.3	222.3	229.6	247.5	293.7
47°	188.9	208.7	210.0	217.0	233.7	277.0
47.5°	176.5	196.9	197.9	204.9	220.1	261.1
48°	164.9	184.8	186.2	193.2	207.5	245.6
48.5°	150.6	173.4	175.1	181.9	195.7	230.3
49°	135.6	160.8	163.0	170.5	183.8	216.3
49.5°	120.4	147.2	149.9	158.4	171.9	203.9
50°	105.8	132.5	135.6	144.8	159.6	190.8
50.5°	92.5	117.2	121.1	130.3	145.3	178.5
51°	79.9	102.4	106.3	116.0	130.5	165.4
51.5°	69.7	89.4	92.7	101.7	116.0	150.9
52°	60.8	80.4	83.8	88.6	101.5	135.4
52.5°	53.5	71.7	74.6	79.9	88.4	120.4
53°	47.0	63.2	65.4	71.2	79.9	105.3
53.5°	41.7	54.5	56.4	62.7	71.2	91.8
54°	37.1	45.8	47.2	54.0	62.5	82.8
54.5°	33.2	40.2	41.7	45.3	53.8	73.9
55°	29.5	35.8	37.1	40.2	45.3	64.9
55.5°	26.6	32.0	32.9	35.6	40.0	55.9
56°	24.0	28.6	29.5	31.7	35.6	47.2
56.5°	22.0	25.7	26.4	28.3	31.7	41.7
57°	20.1	23.2	23.7	25.4	28.3	36.8
57.5°	18.2	20.8	21.3	22.8	25.4	32.9
58°	16.2	18.9	19.4	20.6	22.8	29.3
58.5°	14.5	17.0	17.4	18.6	20.6	26.4
59°	13.1	15.5	15.7	17.0	18.6	23.7
59.5°	11.9	14.0	14.3	15.3	16.7	21.3
60°	10.9	12.8	13.1	13.8	15.3	19.1
60.5°	9.9	11.6	11.9	12.6	13.8	17.4
61°	9.0	10.4	10.7	11.4	12.6	15.7
61.5°	8.2	9.7	9.9	10.4	11.4	14.3
62°	7.5	9.0	9.2	9.4	10.4	12.8
62.5°	6.8	8.2	8.5	8.7	9.4	11.9
63°	6.3	7.5	7.7	8.0	8.7	10.7
63.5°	5.8	6.8	7.0	7.3	8.0	9.7
64°	5.3	6.1	6.3	6.5	7.3	9.0
64.5°	4.8	5.6	5.8	6.1	6.5	8.2
65°	4.4	5.1	5.3	5.6	6.1	7.7
65.5°	4.1	4.8	4.8	5.1	5.6	7.0
66°	3.6	4.4	4.4	4.6	5.1	6.3



TEST NUMBER: P775955

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.9	3.4	3.4	3.6	3.9	4.8
68°	2.7	3.1	3.1	3.4	3.6	4.4
68.5°	2.4	2.9	2.9	3.1	3.4	3.9
69°	2.2	2.7	2.7	2.7	2.9	3.6
69.5°	1.9	2.4	2.4	2.7	2.7	3.4
70°	1.9	2.2	2.2	2.4	2.4	2.9
70.5°	1.7	1.9	1.9	2.2	2.2	2.7
71°	1.7	1.9	1.9	1.9	2.2	2.4
71.5°	1.5	1.7	1.7	1.7	1.9	2.2
72°	1.2	1.5	1.5	1.7	1.7	2.2
72.5°	1.2	1.5	1.5	1.5	1.7	1.9
73°	1.2	1.2	1.2	1.5	1.5	1.7
73.5°	1.0	1.2	1.2	1.2	1.2	1.7
74°	1.0	1.0	1.0	1.2	1.2	1.5
74.5°	0.7	1.0	1.0	1.0	1.0	1.2
75°	0.7	1.0	1.0	1.0	1.0	1.2
75.5°	0.7	0.7	0.7	1.0	1.0	1.0
76°	0.7	0.7	0.7	0.7	0.7	1.0
76.5°	0.5	0.7	0.7	0.7	0.7	1.0
77°	0.5	0.5	0.7	0.7	0.7	0.7
77.5°	0.5	0.5	0.5	0.5	0.5	0.7
78°	0.5	0.5	0.5	0.5	0.5	0.7
78.5°	0.5	0.5	0.5	0.5	0.5	0.5
79°	0.2	0.5	0.5	0.5	0.5	0.5
79.5°	0.2	0.2	0.2	0.2	0.2	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.5
80.5°	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.2	0.2	0.2	0.2	0.2
83°	0.0	0.2	0.2	0.2	0.0	0.2
83.5°	0.0	0.0	0.0	0.0	0.0	0.2
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	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: P775955

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-2700K

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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Scaled Data Report



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21.5°	1851.1	1936.8	1983.6	2006.6	1970.5	1958.2	1930.8	1873.6	1779.9	1671.7	1611.6
22°	1827.6	1918.0	1965.7	1988.4	1948.7	1938.1	1910.9	1852.1	1755.2	1637.5	1578.7



44°	388.7	459.6	500.8	517.3	466.9	449.2	430.1	399.6	345.8	296.7	276.6
44.5°	368.3	434.7	472.5	488.0	439.8	422.8	404.7	378.0	327.2	281.2	262.3



66.5°	5.6	7.0	7.7	7.7	6.3	6.3	5.8	5.6	4.8	4.1	3.6
67°	5.1	6.3	7.0	7.0	5.8	5.6	5.3	5.1	4.4	3.6	3.4



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°	1591.3	1648.7	1667.6	1698.3	1755.5	1851.1
22°	1558.3	1618.4	1634.4	1664.2	1725.2	1827.6



44°	267.6	296.4	295.2	300.0	323.8	388.7
44.5°	252.8	280.2	279.5	285.5	307.8	368.3

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66.5°	3.4	3.9	4.1	4.4	4.6	5.6
67°	3.1	3.6	3.6	3.9	4.4	5.1

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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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)