

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: P775959

Luminaire Tested: HCDJBL51525CSD-HCD42TRH-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775959
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-5000K
Description: 4 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

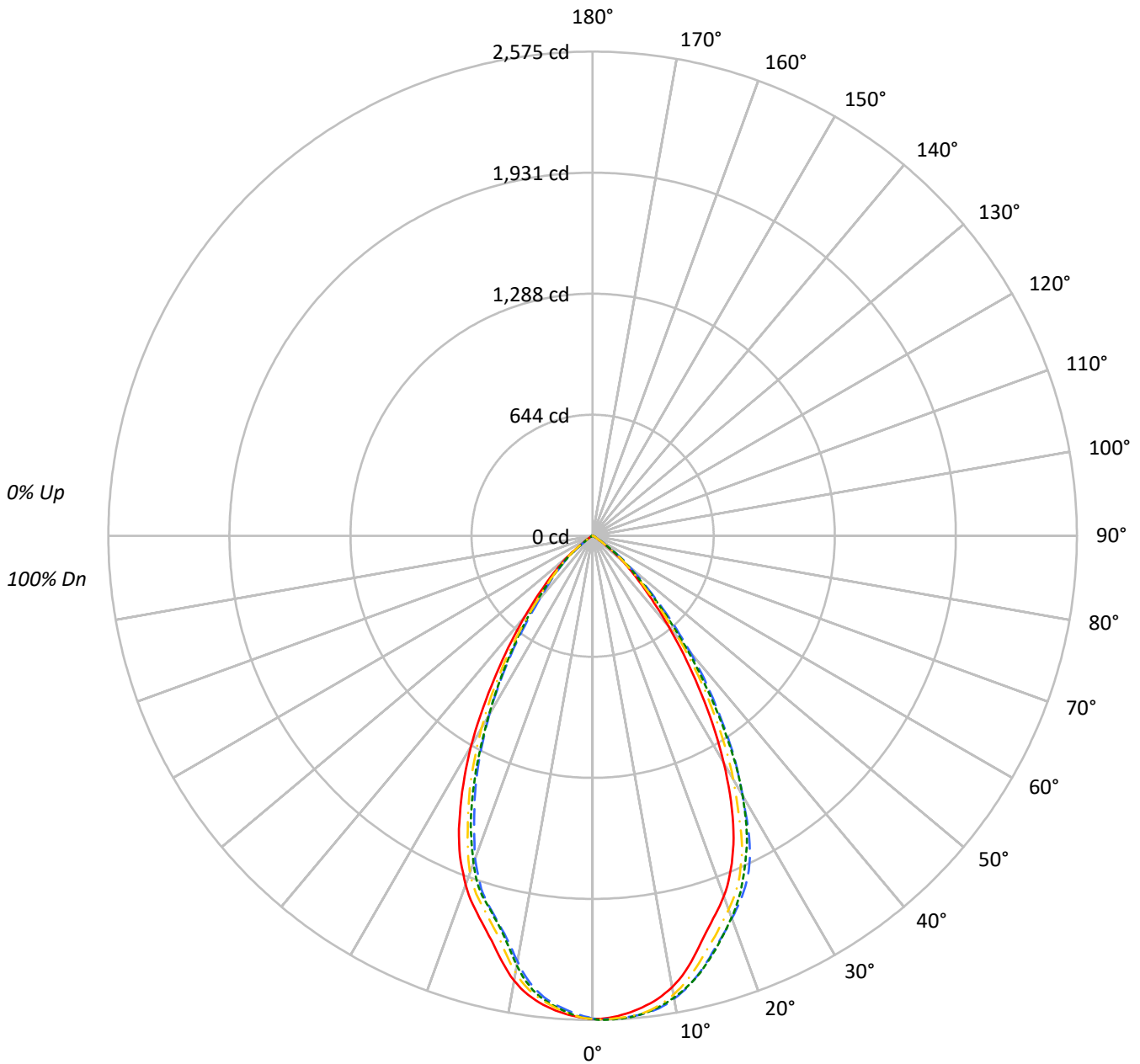
Lumens per Lamp: N/A
Luminaire Lumens: 2591.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.92
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (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									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°	323233	323233	323233	323233
5°	320425	323975	318896	316155
10°	311478	318660	307057	296603
15°	291210	306271	283783	270207
20°	273224	289496	264518	248005
25°	246282	266694	232924	209026
30°	202662	231609	187854	160824
35°	150684	179783	136427	115963
40°	102941	125366	91967	78873
45°	66119	78328	58626	50190
50°	39804	45364	34145	27626
55°	15161	17948	10751	8382
60°	5135	6041	4279	3448
65°	2472	2621	1995	1608
70°	1141	1325	957	846
75°	632	729	486	486
80°	362	362	217	217
85°	0	433	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 87138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	9.2
10°-20°	620.3	23.9
20°-30°	778.2	30.0
30°-40°	594.3	22.9
40°-50°	283.2	10.9
50°-60°	67.8	2.6
60°-70°	8.4	0.3
70°-80°	1.5	0.1
80°-90°	0.2	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°	1636.4	63.1
0°-40°	2230.6	86.1
0°-60°	2581.6	99.6
0°-90°	2591.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2568	2568	2568	2568	2568	
5°	2536	2564	2524	2503	2536	239
15°	2235	2351	2178	2074	2235	629
25°	1774	1921	1677	1505	1774	802
35°	981	1170	888	755	981	613
45°	372	440	329	282	372	294
55°	69	82	49	38	69	74
65°	8	9	7	5	8	9
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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CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4
0.5°	2569.2	2568.7	2568.4	2567.9	2573.3	2572.8	2571.8	2570.0	2567.1	2562.7	2560.7
1°	2568.9	2570.2	2571.0	2570.5	2574.6	2574.3	2572.3	2569.4	2564.8	2558.6	2556.0
1.5°	2567.4	2570.2	2571.8	2572.3	2575.1	2574.6	2572.0	2568.4	2562.5	2553.2	2549.3
2°	2564.8	2570.0	2572.3	2573.3	2574.9	2574.6	2571.5	2566.9	2558.4	2547.5	2542.4
2.5°	2561.7	2568.4	2571.8	2573.3	2574.1	2573.8	2570.5	2564.8	2554.2	2541.1	2535.4
3°	2557.6	2566.1	2570.5	2573.1	2573.3	2573.1	2568.9	2562.2	2549.3	2534.4	2527.7
3.5°	2552.9	2564.3	2568.9	2572.0	2571.8	2571.8	2567.4	2559.4	2544.2	2526.9	2519.4
4°	2547.8	2561.2	2566.9	2571.0	2570.0	2570.5	2565.8	2556.0	2538.0	2519.4	2510.6
4.5°	2542.1	2557.6	2565.1	2568.9	2567.9	2568.4	2563.5	2552.2	2531.8	2510.9	2501.6
5°	2536.4	2553.7	2563.0	2567.1	2564.5	2565.8	2560.7	2547.3	2524.3	2501.9	2491.0
5.5°	2529.7	2549.8	2560.2	2565.1	2561.4	2562.7	2557.1	2541.6	2516.8	2492.3	2479.7
6°	2522.2	2545.2	2557.3	2562.5	2556.5	2558.6	2552.4	2535.7	2508.3	2481.7	2467.5
6.5°	2514.2	2540.0	2553.7	2558.6	2551.6	2553.2	2546.7	2528.4	2499.0	2469.9	2453.1
7°	2506.0	2534.4	2549.3	2554.5	2545.7	2547.3	2540.3	2520.4	2488.7	2456.7	2437.4
7.5°	2497.2	2527.4	2544.2	2549.6	2538.5	2539.8	2531.8	2510.9	2477.6	2441.5	2419.8
8°	2486.9	2519.4	2537.7	2543.6	2530.8	2531.5	2523.0	2500.8	2465.5	2425.2	2399.4
8.5°	2476.1	2510.4	2529.7	2536.4	2522.0	2522.5	2512.7	2490.0	2451.6	2406.9	2378.0
9°	2463.9	2500.6	2520.9	2528.2	2513.5	2511.9	2501.9	2478.1	2436.8	2386.8	2353.5
9.5°	2451.3	2490.0	2511.1	2519.4	2503.4	2501.9	2489.7	2465.5	2420.3	2364.4	2328.0
10°	2437.4	2478.1	2500.3	2509.6	2493.6	2490.0	2477.1	2451.0	2402.8	2340.1	2299.3
10.5°	2421.9	2465.2	2488.7	2499.5	2482.8	2478.1	2463.4	2435.8	2383.4	2314.0	2272.3
11°	2405.6	2452.1	2475.8	2488.4	2471.4	2465.2	2448.7	2418.8	2361.5	2288.0	2244.1
11.5°	2387.8	2437.6	2463.2	2476.8	2459.8	2451.6	2432.5	2401.2	2338.8	2261.4	2216.3
12°	2368.7	2422.1	2449.0	2465.2	2446.6	2437.4	2416.0	2382.7	2315.1	2234.9	2191.3
12.5°	2348.4	2405.1	2433.8	2451.8	2433.0	2421.4	2398.7	2362.5	2291.1	2210.9	2168.0
13°	2326.2	2387.3	2417.8	2438.4	2419.0	2405.6	2379.8	2341.4	2266.6	2187.9	2146.4
13.5°	2303.2	2368.5	2400.7	2423.7	2403.8	2388.1	2360.7	2320.0	2243.1	2165.5	2126.5
14°	2280.8	2349.4	2383.4	2408.7	2387.6	2370.3	2341.1	2297.8	2219.9	2144.3	2106.6
14.5°	2258.3	2329.3	2365.6	2393.0	2369.3	2351.5	2321.0	2275.4	2198.7	2124.7	2087.0
15°	2235.1	2307.9	2347.3	2375.4	2350.7	2332.6	2300.6	2254.2	2178.1	2104.6	2067.7
15.5°	2213.4	2287.5	2328.5	2358.7	2332.9	2313.5	2280.5	2233.6	2158.2	2085.7	2049.6
16°	2192.3	2266.8	2307.9	2339.8	2314.0	2295.0	2262.2	2213.4	2138.1	2066.7	2031.0
16.5°	2173.2	2246.7	2288.8	2321.8	2296.2	2275.9	2243.9	2193.8	2119.0	2048.1	2012.0
17°	2153.3	2226.6	2271.0	2303.2	2277.2	2257.8	2225.8	2174.0	2099.9	2029.2	1991.8
17.5°	2134.0	2208.0	2253.2	2285.2	2258.1	2239.2	2207.0	2154.9	2081.1	2008.9	1970.4
18°	2114.9	2189.7	2235.4	2267.1	2239.0	2220.1	2188.2	2136.3	2062.5	1987.2	1942.0
18.5°	2096.6	2171.1	2218.3	2248.8	2218.9	2201.8	2169.8	2117.7	2042.4	1959.8	1913.7
19°	2078.5	2153.6	2201.3	2230.7	2199.8	2183.0	2151.8	2099.7	2021.0	1932.8	1885.3
19.5°	2059.7	2135.3	2183.3	2211.6	2180.2	2165.2	2133.7	2081.1	1998.3	1905.4	1856.9
20°	2040.1	2117.7	2165.7	2193.3	2161.6	2146.4	2115.4	2061.7	1975.1	1878.1	1826.5
20.5°	2019.2	2100.2	2148.4	2175.3	2142.0	2127.0	2096.3	2041.4	1948.8	1850.7	1791.6
21°	1996.2	2082.4	2130.9	2156.4	2120.3	2107.7	2077.2	2019.4	1922.4	1816.7	1753.2



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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°	1920.4	2022.0	2074.9	2097.9	2052.7	2040.9	2013.2	1945.7	1843.5	1709.9	1646.7
23°	1893.0	2000.1	2054.5	2075.4	2027.7	2018.2	1990.8	1918.3	1813.3	1676.8	1610.5
23.5°	1864.1	1976.9	2034.1	2053.2	2001.4	1991.8	1962.2	1891.0	1781.1	1644.3	1576.5
24°	1834.7	1951.3	2012.0	2029.8	1975.3	1964.0	1933.3	1863.6	1747.8	1611.1	1542.4
24.5°	1805.1	1924.5	1988.5	2003.7	1948.0	1935.9	1904.6	1837.8	1713.7	1579.3	1508.1
25°	1773.6	1896.1	1963.5	1978.2	1920.6	1908.0	1876.0	1806.1	1677.4	1546.3	1472.8
25.5°	1740.3	1866.5	1935.3	1949.8	1893.0	1879.9	1847.1	1773.6	1640.0	1511.2	1436.4
26°	1705.2	1835.2	1906.4	1920.9	1865.7	1852.0	1809.2	1739.3	1601.8	1475.1	1399.3
26.5°	1668.6	1802.2	1873.2	1891.7	1838.1	1819.0	1770.2	1702.4	1564.1	1437.2	1361.6
27°	1631.4	1768.2	1838.6	1862.1	1807.4	1784.9	1728.4	1662.9	1527.2	1396.9	1322.4
27.5°	1593.5	1732.1	1800.2	1832.4	1774.9	1750.1	1687.9	1624.0	1488.3	1357.0	1284.2
28°	1554.1	1694.1	1758.9	1798.9	1741.1	1714.0	1647.7	1582.7	1450.6	1316.7	1246.0
28.5°	1514.6	1653.1	1717.9	1765.3	1704.2	1676.1	1609.0	1539.3	1412.2	1277.0	1208.9
29°	1473.8	1610.8	1675.3	1730.5	1669.6	1635.6	1571.1	1496.8	1373.7	1237.0	1170.7
29.5°	1435.1	1567.7	1634.0	1694.1	1630.9	1595.8	1533.4	1455.5	1333.7	1199.1	1133.5
30°	1394.6	1524.9	1594.0	1655.4	1593.8	1553.8	1495.5	1412.7	1292.7	1161.9	1097.4
30.5°	1353.1	1482.1	1555.9	1615.2	1555.1	1511.2	1457.6	1371.1	1252.2	1124.3	1061.1
31°	1312.1	1440.8	1518.5	1574.9	1517.4	1471.0	1418.9	1328.8	1211.2	1087.6	1023.7
31.5°	1270.3	1399.3	1480.8	1531.3	1476.1	1430.0	1378.4	1288.1	1169.4	1050.0	986.2
32°	1228.5	1358.8	1442.6	1490.1	1435.9	1391.0	1337.6	1246.8	1126.8	1011.3	948.6
32.5°	1187.0	1317.7	1403.1	1447.5	1391.8	1350.8	1296.1	1206.0	1084.0	972.3	911.4
33°	1145.2	1277.2	1363.4	1406.0	1348.4	1310.5	1253.8	1165.8	1043.5	933.4	874.3
33.5°	1104.7	1236.0	1320.8	1365.0	1303.3	1271.1	1212.0	1125.8	1002.2	894.1	836.9
34°	1062.3	1194.4	1279.0	1324.2	1259.4	1230.8	1171.0	1085.8	962.8	854.4	801.0
34.5°	1021.6	1152.4	1236.7	1283.2	1214.8	1189.5	1130.5	1046.4	924.6	817.3	765.9
35°	980.8	1111.4	1193.9	1242.4	1170.2	1148.0	1091.2	1008.7	888.0	780.1	732.1
35.5°	940.6	1070.9	1152.9	1201.4	1126.8	1106.2	1052.8	971.0	850.3	744.8	697.8
36°	903.9	1031.4	1113.7	1160.1	1084.0	1065.2	1014.4	933.6	814.7	709.4	664.3
36.5°	867.1	993.2	1075.2	1117.6	1039.6	1023.9	975.2	897.5	779.1	676.2	632.0
37°	830.2	955.3	1035.8	1078.1	997.6	982.6	936.5	861.4	745.0	644.2	599.5
37.5°	793.5	913.8	997.9	1035.8	956.3	942.9	896.2	826.6	711.2	612.7	569.4
38°	756.6	879.7	959.2	995.3	917.4	904.2	857.3	790.4	680.0	582.0	539.2
38.5°	721.8	845.4	918.9	953.2	875.6	865.0	819.3	755.1	647.0	551.8	510.8
39°	689.1	811.3	881.0	915.6	838.2	826.6	782.2	720.3	617.1	523.4	484.5
39.5°	657.3	777.3	843.1	876.3	800.8	787.3	746.1	687.0	587.7	496.6	460.7
40°	626.6	742.2	804.9	837.4	763.1	748.9	710.2	652.9	559.8	471.6	437.8
40.5°	595.7	708.4	767.0	798.4	725.4	711.5	676.4	620.2	531.4	447.8	415.9
41°	566.5	673.6	730.1	759.5	690.6	675.1	644.2	589.2	505.1	426.2	396.3
41.5°	538.7	640.8	696.0	722.9	655.0	638.7	611.9	559.8	480.1	405.0	378.5
42°	511.6	607.8	662.2	686.7	622.5	603.4	579.4	530.4	456.1	386.4	360.4
42.5°	485.8	576.6	629.2	651.6	589.2	570.1	548.2	503.1	432.4	367.4	343.1
43°	461.5	546.9	597.5	616.6	557.5	537.9	517.5	476.2	409.9	349.6	326.6
43.5°	437.0	518.0	565.5	583.0	526.5	507.7	487.6	450.7	388.8	332.3	310.1



TEST NUMBER: P775959

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	371.5	437.8	473.6	489.6	440.1	424.1	404.8	380.0	329.4	283.8	264.4
45.5°	351.4	413.3	445.0	461.8	413.8	399.3	381.0	358.3	311.4	268.6	250.0
46°	331.5	389.5	417.7	434.4	387.7	375.9	358.1	337.9	293.8	253.6	237.1
46.5°	312.9	368.1	393.9	409.4	364.0	353.4	336.9	318.3	277.1	239.4	224.2
47°	295.1	347.0	371.0	384.9	340.8	331.8	316.8	299.3	260.3	226.0	211.0
47.5°	278.1	326.9	348.8	361.9	319.9	311.6	298.2	281.2	245.3	212.8	198.1
48°	261.6	307.5	328.1	340.3	299.8	292.5	280.2	264.2	231.1	199.4	185.2
48.5°	245.3	289.2	309.1	319.1	280.4	274.2	263.1	247.9	217.2	186.3	170.8
49°	230.4	271.4	290.5	300.3	262.9	256.9	246.9	233.5	203.0	171.0	154.8
49.5°	217.2	254.6	272.9	280.9	245.9	242.5	232.7	219.0	188.8	154.5	138.5
50°	203.3	238.9	255.9	263.9	231.7	228.1	218.5	204.8	174.4	138.3	122.3
50.5°	190.1	224.2	239.9	246.1	217.5	213.3	204.1	190.4	157.4	122.0	107.8
51°	176.2	209.7	225.0	230.9	203.0	198.9	189.9	175.9	140.3	106.8	93.9
51.5°	160.7	196.1	210.8	216.2	188.8	184.5	175.4	159.4	123.8	93.1	81.5
52°	144.2	181.9	196.3	202.0	174.4	169.7	158.7	142.4	108.4	81.5	71.5
52.5°	128.2	166.4	181.9	188.6	158.7	153.5	141.4	125.4	94.4	71.2	62.7
53°	112.2	149.4	166.1	173.6	141.6	136.2	124.3	109.6	82.3	62.7	55.2
53.5°	97.8	132.6	148.9	157.9	125.4	119.4	108.9	95.2	72.0	55.2	48.8
54°	88.2	116.1	131.1	140.3	109.1	104.2	94.2	83.1	63.2	49.0	43.3
54.5°	78.7	101.4	114.5	123.8	94.4	90.3	81.5	72.5	55.7	43.3	38.7
55°	69.1	87.7	99.8	107.1	81.8	78.2	70.9	63.5	49.0	38.7	34.6
55.5°	59.6	78.9	87.5	93.4	70.7	67.8	62.2	55.5	43.6	34.6	31.0
56°	50.3	69.9	78.2	84.1	61.4	58.8	54.4	49.0	38.7	31.0	27.9
56.5°	44.4	60.9	69.1	74.8	53.7	51.9	48.0	43.3	34.6	27.9	25.0
57°	39.2	52.1	60.1	65.5	47.2	45.7	42.3	38.4	31.0	25.3	23.0
57.5°	35.1	46.2	51.1	56.5	41.5	40.2	37.7	34.3	27.9	23.2	21.2
58°	31.2	41.0	45.1	47.2	36.9	35.9	33.5	30.7	25.0	21.2	19.1
58.5°	28.1	36.4	40.0	41.5	32.8	32.0	29.9	27.3	23.0	19.1	17.3
59°	25.3	32.5	35.6	36.9	29.2	28.4	26.8	24.8	21.2	17.3	15.2
59.5°	22.7	29.2	31.7	32.8	26.1	25.5	24.8	22.7	19.1	15.2	13.9
60°	20.4	26.1	28.4	29.2	24.0	23.5	22.7	20.9	17.0	13.9	12.6
60.5°	18.6	23.5	25.5	26.1	21.9	21.4	20.6	18.8	15.2	12.6	11.4
61°	16.8	21.2	23.0	23.5	19.9	19.3	18.6	16.8	13.7	11.4	10.6
61.5°	15.2	19.1	20.6	21.2	17.8	17.3	16.5	15.0	12.4	10.6	9.5
62°	13.7	17.3	18.6	19.1	15.5	15.2	14.4	13.4	11.4	9.5	8.8
62.5°	12.6	15.7	17.0	17.3	14.2	13.9	13.2	12.4	10.3	8.8	8.0
63°	11.4	14.2	15.5	15.7	12.9	12.6	11.9	11.1	9.5	8.0	7.2
63.5°	10.3	12.9	13.9	14.2	11.6	11.4	10.8	10.1	8.5	7.2	6.7
64°	9.5	11.9	12.6	12.9	10.6	10.3	9.8	9.3	8.0	6.7	6.2
64.5°	8.8	10.8	11.6	11.6	9.5	9.5	9.0	8.5	7.2	6.2	5.7
65°	8.3	9.8	10.6	10.6	8.8	8.8	8.3	7.7	6.7	5.7	5.2
65.5°	7.5	9.0	9.5	9.8	8.0	8.0	7.5	7.0	6.2	5.2	4.6
66°	6.7	8.3	8.8	9.0	7.5	7.2	7.0	6.4	5.4	4.6	4.4



TEST NUMBER: P775959

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	5.2	6.2	6.7	6.7	5.7	5.7	5.2	4.9	4.1	3.6	3.4
68°	4.6	5.7	6.2	6.2	5.2	5.2	4.9	4.6	3.9	3.4	3.1
68.5°	4.1	5.2	5.7	5.7	4.6	4.6	4.4	4.1	3.6	3.1	2.8
69°	3.9	4.9	5.2	5.2	4.4	4.4	4.1	3.9	3.4	2.8	2.6
69.5°	3.6	4.4	4.6	4.9	4.1	3.9	3.6	3.6	2.8	2.6	2.3
70°	3.1	4.1	4.4	4.4	3.6	3.6	3.4	3.1	2.6	2.3	2.1
70.5°	2.8	3.6	3.9	4.1	3.4	3.4	3.1	2.8	2.6	2.1	2.1
71°	2.6	3.4	3.6	3.6	3.1	3.1	2.8	2.6	2.3	2.1	1.8
71.5°	2.3	3.1	3.4	3.4	2.8	2.8	2.6	2.6	2.1	1.8	1.8
72°	2.3	2.8	3.1	3.1	2.6	2.6	2.3	2.3	1.8	1.5	1.5
72.5°	2.1	2.6	2.8	2.8	2.3	2.3	2.3	2.1	1.8	1.5	1.3
73°	1.8	2.3	2.6	2.6	2.3	2.1	2.1	1.8	1.5	1.3	1.3
73.5°	1.8	2.1	2.3	2.3	2.1	2.1	1.8	1.8	1.3	1.3	1.3
74°	1.5	2.1	2.1	2.3	1.8	1.8	1.8	1.5	1.3	1.0	1.0
74.5°	1.3	1.8	2.1	2.1	1.8	1.5	1.5	1.5	1.3	1.0	1.0
75°	1.3	1.5	1.8	1.8	1.5	1.5	1.5	1.3	1.0	0.8	0.8
75.5°	1.0	1.5	1.5	1.8	1.5	1.3	1.3	1.3	1.0	0.8	0.8
76°	1.0	1.3	1.5	1.5	1.3	1.3	1.3	1.0	0.8	0.8	0.8
76.5°	1.0	1.3	1.3	1.5	1.3	1.3	1.0	1.0	0.8	0.5	0.5
77°	0.8	1.0	1.3	1.3	1.0	1.0	1.0	0.8	0.8	0.5	0.5
77.5°	0.8	1.0	1.0	1.3	1.0	1.0	0.8	0.8	0.5	0.5	0.5
78°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.5	0.5	0.5
78.5°	0.5	0.8	1.0	1.0	0.8	0.8	0.8	0.5	0.5	0.5	0.5
79°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.3	0.3
79.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.3	0.3
80°	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3
80.5°	0.3	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3
81°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
81.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.0	0.3
82.5°	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.0	0.0
83°	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
84°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
84.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.3	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: P775959
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-5000K

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: P775959

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4
0.5°	2559.1	2568.2	2568.4	2568.2	2567.9	2569.2
1°	2553.2	2564.3	2564.8	2565.1	2565.3	2568.9
1.5°	2546.5	2559.4	2559.6	2560.7	2562.2	2567.4
2°	2539.3	2553.2	2554.2	2555.3	2557.6	2564.8
2.5°	2531.3	2546.5	2547.3	2549.1	2551.9	2561.7
3°	2522.5	2538.7	2540.0	2542.1	2546.0	2557.6
3.5°	2513.7	2530.8	2532.0	2534.6	2539.5	2552.9
4°	2503.9	2522.0	2523.3	2526.6	2532.3	2547.8
4.5°	2494.1	2512.7	2513.7	2517.9	2524.6	2542.1
5°	2482.3	2502.6	2504.4	2508.8	2516.8	2536.4
5.5°	2469.6	2491.8	2493.9	2499.3	2508.3	2529.7
6°	2455.9	2480.2	2482.8	2489.0	2499.0	2522.2
6.5°	2438.9	2467.0	2469.6	2477.6	2489.0	2514.2
7°	2421.6	2452.1	2455.9	2465.5	2478.4	2506.0
7.5°	2400.2	2436.1	2440.2	2452.3	2467.3	2497.2
8°	2379.1	2416.7	2423.4	2437.4	2454.4	2486.9
8.5°	2353.8	2396.1	2404.1	2420.6	2440.2	2476.1
9°	2327.7	2373.1	2382.7	2402.3	2425.2	2463.9
9.5°	2299.1	2348.1	2358.7	2381.9	2408.7	2451.3
10°	2270.5	2321.0	2333.4	2359.2	2390.7	2437.4
10.5°	2241.8	2292.1	2306.3	2334.7	2369.8	2421.9
11°	2214.0	2263.0	2278.4	2308.9	2347.8	2405.6
11.5°	2186.1	2233.6	2248.5	2281.5	2324.6	2387.8
12°	2163.9	2205.7	2221.4	2253.9	2299.3	2368.7
12.5°	2142.0	2179.9	2194.1	2226.3	2273.0	2348.4
13°	2121.3	2155.9	2170.6	2201.8	2248.0	2326.2
13.5°	2101.7	2133.7	2148.7	2177.6	2223.5	2303.2
14°	2081.6	2112.8	2127.8	2156.2	2199.8	2280.8
14.5°	2064.6	2093.7	2108.7	2136.0	2177.6	2258.3
15°	2045.2	2073.9	2089.4	2115.9	2156.4	2235.1
15.5°	2028.2	2055.6	2070.8	2096.3	2136.3	2213.4
16°	2010.9	2038.3	2051.9	2077.0	2115.9	2192.3
16.5°	1991.3	2020.5	2034.4	2058.7	2096.1	2173.2
17°	1970.4	2003.7	2016.3	2039.8	2078.3	2153.3
17.5°	1943.1	1984.9	1998.3	2021.2	2059.2	2134.0
18°	1916.0	1962.9	1977.1	2002.7	2040.6	2114.9
18.5°	1888.9	1938.4	1954.2	1981.3	2021.0	2096.6
19°	1861.8	1911.9	1930.2	1959.1	2000.6	2078.5
19.5°	1834.5	1882.7	1903.1	1933.0	1978.2	2059.7
20°	1801.5	1851.8	1873.7	1905.9	1954.4	2040.1
20.5°	1765.8	1819.8	1843.5	1876.3	1928.4	2019.2
21°	1730.8	1788.0	1810.5	1844.0	1900.3	1996.2

TEST NUMBER: P775959

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1622.7	1692.1	1705.2	1737.5	1804.5	1920.4
23°	1584.8	1658.0	1667.8	1700.6	1770.8	1893.0
23.5°	1549.7	1622.7	1630.7	1665.2	1735.7	1864.1
24°	1509.9	1584.5	1594.3	1629.4	1701.4	1834.7
24.5°	1473.8	1546.8	1555.9	1593.3	1666.0	1805.1
25°	1435.6	1505.3	1518.7	1558.7	1632.7	1773.6
25.5°	1398.2	1466.3	1481.6	1522.6	1598.4	1740.3
26°	1360.3	1426.9	1443.4	1487.0	1564.6	1705.2
26.5°	1323.4	1387.4	1406.7	1449.6	1529.8	1668.6
27°	1285.0	1345.6	1367.5	1411.9	1493.2	1631.4
27.5°	1247.8	1305.6	1329.1	1373.7	1456.3	1593.5
28°	1209.4	1265.1	1290.4	1332.2	1418.1	1554.1
28.5°	1171.2	1224.1	1252.5	1295.0	1378.9	1514.6
29°	1131.0	1184.6	1213.3	1255.6	1339.4	1473.8
29.5°	1091.0	1144.9	1175.3	1217.4	1297.6	1435.1
30°	1052.8	1106.7	1136.9	1180.2	1257.9	1394.6
30.5°	1013.1	1069.1	1097.2	1142.1	1216.6	1353.1
31°	976.2	1032.7	1058.2	1104.7	1175.9	1312.1
31.5°	939.3	996.3	1019.0	1067.2	1135.4	1270.3
32°	903.7	961.0	981.3	1029.8	1096.4	1228.5
32.5°	869.1	924.1	943.9	992.4	1058.0	1187.0
33°	833.8	890.0	909.1	954.0	1019.0	1145.2
33.5°	800.5	856.0	874.0	913.0	980.3	1104.7
34°	766.4	821.9	838.9	877.6	941.6	1062.3
34.5°	734.2	787.9	803.9	842.3	903.4	1021.6
35°	702.5	754.8	769.0	807.0	865.3	980.8
35.5°	671.0	724.4	735.7	771.6	827.1	940.6
36°	640.8	694.0	703.8	736.8	788.9	903.9
36.5°	612.2	665.8	672.0	702.5	751.0	867.1
37°	584.1	636.2	641.8	668.2	714.9	830.2
37.5°	557.5	608.1	611.9	634.4	680.5	793.5
38°	531.2	580.4	583.5	601.6	647.0	756.6
38.5°	505.6	553.6	555.9	569.6	616.0	721.8
39°	481.9	529.1	529.1	538.1	585.9	689.1
39.5°	457.4	503.3	504.1	509.2	556.2	657.3
40°	435.2	480.1	478.8	481.4	527.3	626.6
40.5°	413.0	456.4	455.1	456.1	499.4	595.7
41°	392.1	434.4	431.9	432.1	473.6	566.5
41.5°	372.8	412.2	409.7	410.7	448.9	538.7
42°	353.7	391.9	389.0	390.3	426.2	511.6
42.5°	335.9	371.7	369.2	371.5	403.7	485.8
43°	317.6	352.4	350.1	353.4	383.1	461.5
43.5°	301.1	333.8	332.0	336.7	363.5	437.0



TEST NUMBER: P775959

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	253.8	282.0	281.7	288.4	310.9	371.5
45.5°	239.9	265.7	266.0	273.7	294.6	351.4
46°	227.0	250.2	251.0	258.8	278.9	331.5
46.5°	214.1	235.8	236.8	244.6	263.7	312.9
47°	201.2	222.4	223.7	231.1	248.9	295.1
47.5°	188.1	209.7	210.8	218.2	234.5	278.1
48°	175.7	196.8	198.4	205.9	221.1	261.6
48.5°	160.5	184.7	186.5	193.7	208.4	245.3
49°	144.5	171.3	173.6	181.6	195.8	230.4
49.5°	128.2	156.8	159.7	168.7	183.2	217.2
50°	112.7	141.1	144.5	154.3	170.0	203.3
50.5°	98.5	124.9	129.0	138.8	154.8	190.1
51°	85.1	109.1	113.3	123.6	139.0	176.2
51.5°	74.3	95.2	98.8	108.4	123.6	160.7
52°	64.8	85.6	89.3	94.4	108.1	144.2
52.5°	57.0	76.4	79.5	85.1	94.2	128.2
53°	50.0	67.3	69.7	75.8	85.1	112.2
53.5°	44.4	58.0	60.1	66.8	75.8	97.8
54°	39.5	48.8	50.3	57.5	66.6	88.2
54.5°	35.3	42.8	44.4	48.2	57.3	78.7
55°	31.5	38.2	39.5	42.8	48.2	69.1
55.5°	28.4	34.1	35.1	37.9	42.6	59.6
56°	25.5	30.4	31.5	33.8	37.9	50.3
56.5°	23.5	27.3	28.1	30.2	33.8	44.4
57°	21.4	24.8	25.3	27.1	30.2	39.2
57.5°	19.3	22.2	22.7	24.2	27.1	35.1
58°	17.3	20.1	20.6	21.9	24.2	31.2
58.5°	15.5	18.1	18.6	19.9	21.9	28.1
59°	13.9	16.5	16.8	18.1	19.9	25.3
59.5°	12.6	15.0	15.2	16.3	17.8	22.7
60°	11.6	13.7	13.9	14.7	16.3	20.4
60.5°	10.6	12.4	12.6	13.4	14.7	18.6
61°	9.5	11.1	11.4	12.1	13.4	16.8
61.5°	8.8	10.3	10.6	11.1	12.1	15.2
62°	8.0	9.5	9.8	10.1	11.1	13.7
62.5°	7.2	8.8	9.0	9.3	10.1	12.6
63°	6.7	8.0	8.3	8.5	9.3	11.4
63.5°	6.2	7.2	7.5	7.7	8.5	10.3
64°	5.7	6.4	6.7	7.0	7.7	9.5
64.5°	5.2	5.9	6.2	6.4	7.0	8.8
65°	4.6	5.4	5.7	5.9	6.4	8.3
65.5°	4.4	5.2	5.2	5.4	5.9	7.5
66°	3.9	4.6	4.6	4.9	5.4	6.7



TEST NUMBER: P775959

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	3.1	3.6	3.6	3.9	4.1	5.2
68°	2.8	3.4	3.4	3.6	3.9	4.6
68.5°	2.6	3.1	3.1	3.4	3.6	4.1
69°	2.3	2.8	2.8	2.8	3.1	3.9
69.5°	2.1	2.6	2.6	2.8	2.8	3.6
70°	2.1	2.3	2.3	2.6	2.6	3.1
70.5°	1.8	2.1	2.1	2.3	2.3	2.8
71°	1.8	2.1	2.1	2.1	2.3	2.6
71.5°	1.5	1.8	1.8	1.8	2.1	2.3
72°	1.3	1.5	1.5	1.8	1.8	2.3
72.5°	1.3	1.5	1.5	1.5	1.8	2.1
73°	1.3	1.3	1.3	1.5	1.5	1.8
73.5°	1.0	1.3	1.3	1.3	1.3	1.8
74°	1.0	1.0	1.0	1.3	1.3	1.5
74.5°	0.8	1.0	1.0	1.0	1.0	1.3
75°	0.8	1.0	1.0	1.0	1.0	1.3
75.5°	0.8	0.8	0.8	1.0	1.0	1.0
76°	0.8	0.8	0.8	0.8	0.8	1.0
76.5°	0.5	0.8	0.8	0.8	0.8	1.0
77°	0.5	0.5	0.8	0.8	0.8	0.8
77.5°	0.5	0.5	0.5	0.5	0.5	0.8
78°	0.5	0.5	0.5	0.5	0.5	0.8
78.5°	0.5	0.5	0.5	0.5	0.5	0.5
79°	0.3	0.5	0.5	0.5	0.5	0.5
79.5°	0.3	0.3	0.3	0.3	0.3	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.5
80.5°	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.3	0.3	0.3	0.3	0.3
83°	0.0	0.3	0.3	0.3	0.0	0.3
83.5°	0.0	0.0	0.0	0.0	0.0	0.3
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: P775959

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-5000K

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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21.5°	1972.0	2063.3	2113.1	2137.6	2099.2	2086.0	2056.8	1996.0	1896.1	1780.8	1716.8
22°	1946.9	2043.2	2094.0	2118.2	2075.9	2064.6	2035.7	1973.0	1869.8	1744.4	1681.7



44°	414.1	489.6	533.5	551.0	497.4	478.5	458.2	425.7	368.4	316.0	294.6
44.5°	392.4	463.1	503.3	519.8	468.5	450.4	431.1	402.7	348.5	299.5	279.4



66.5°	5.9	7.5	8.3	8.3	6.7	6.7	6.2	5.9	5.2	4.4	3.9
67°	5.4	6.7	7.5	7.5	6.2	5.9	5.7	5.4	4.6	3.9	3.6



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°	1695.2	1756.3	1776.4	1809.2	1870.1	1972.0
22°	1660.1	1724.1	1741.1	1772.8	1837.8	1946.9



44°	285.1	315.8	314.5	319.6	344.9	414.1
44.5°	269.3	298.5	297.7	304.2	327.9	392.4

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66.5°	3.6	4.1	4.4	4.6	4.9	5.9
67°	3.4	3.9	3.9	4.1	4.6	5.4

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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)