

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: P775982

Luminaire Tested: HCDJBS1525CSD-HCD4TRH-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775982
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-3500K
Description: 4 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

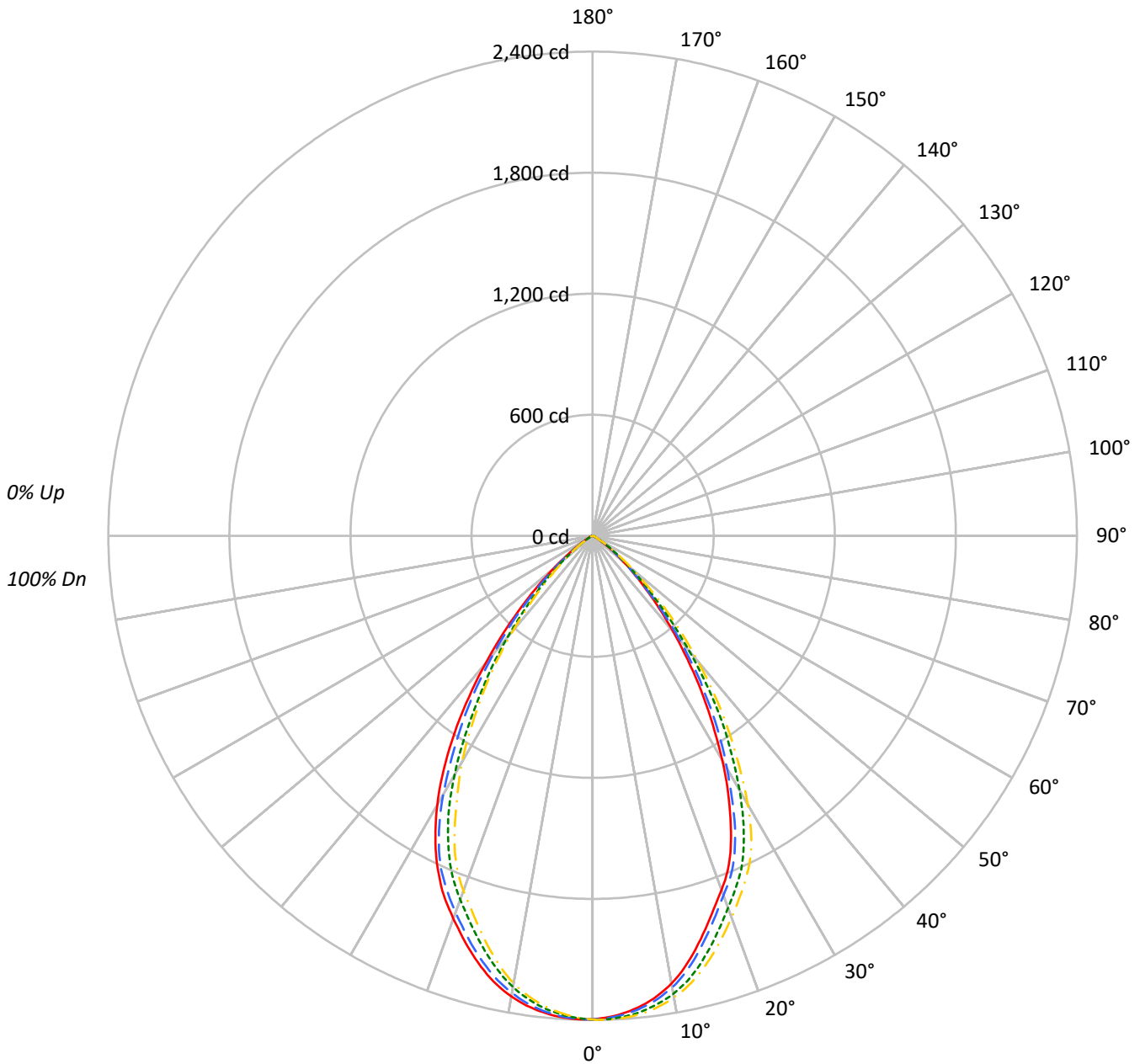
Lumens per Lamp: N/A
Luminaire Lumens: 2701.5 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.98
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	78
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65	65	65	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60	60
7	80	70	63	58	78	69	63	58	68	62	58	66	61	58	65	61	57	56	56	56	56
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52	52	52	52
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	58	53	49	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	301712	301712	301712	301712
5°	297635	300528	301096	298683
10°	287939	294546	296310	290278
15°	269647	280917	285529	274767
20°	250121	262884	270384	257005
25°	225342	244713	252364	234951
30°	186938	211730	223791	199000
35°	143832	170380	183255	151852
40°	102087	122146	135716	107771
45°	66172	78257	88811	67276
50°	38257	45521	49554	36691
55°	18826	22951	23236	16895
60°	7903	8961	9212	6569
65°	4109	4258	4407	3425
70°	2392	2502	2686	2024
75°	1459	1605	1605	1216
80°	725	1087	942	725
85°	433	722	433	433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 90805 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	8.3
10°-20°	597.2	22.1
20°-30°	782.7	29.0
30°-40°	655.5	24.3
40°-50°	332.4	12.3
50°-60°	90.8	3.4
60°-70°	15.3	0.6
70°-80°	3.6	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°	1603.6	59.4
0°-40°	2259.0	83.6
0°-60°	2682.2	99.3
0°-90°	2701.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2701.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2397	2397	2397	2397	2397	
5°	2356	2379	2383	2364	2356	222
15°	2070	2156	2192	2109	2070	580
25°	1623	1762	1817	1692	1623	736
35°	936	1109	1193	988	936	583
45°	372	440	499	378	372	293
55°	86	105	106	77	86	83
65°	14	14	15	12	14	15
75°	3	3	3	2	3	3
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°	2397.4	2397.4	2397.4	2397.4	2397.4	2397.4	2397.4	2397.4	2397.4	2397.4	2397.4
0.5°	2394.7	2394.9	2395.9	2397.7	2398.4	2399.2	2399.4	2399.2	2397.2	2396.7	2396.9
1°	2392.7	2392.9	2394.7	2396.7	2398.4	2399.4	2399.9	2399.7	2397.9	2396.9	2396.9
1.5°	2389.9	2390.9	2392.9	2395.4	2397.9	2399.4	2399.9	2399.9	2397.7	2396.7	2395.7
2°	2386.9	2388.4	2390.4	2393.7	2396.7	2398.7	2399.9	2399.7	2397.2	2395.7	2394.9
2.5°	2383.1	2384.9	2387.9	2391.1	2395.2	2397.9	2399.2	2398.7	2396.2	2394.2	2393.2
3°	2378.9	2381.1	2384.1	2388.4	2392.7	2395.9	2397.7	2397.7	2394.4	2392.4	2390.9
3.5°	2373.8	2376.6	2380.4	2384.4	2390.1	2393.9	2395.7	2395.4	2392.7	2390.1	2388.1
4°	2368.6	2371.6	2375.3	2380.1	2387.1	2391.1	2393.7	2393.2	2390.1	2387.4	2385.1
4.5°	2362.8	2365.8	2370.3	2375.6	2383.4	2388.1	2391.1	2390.6	2386.6	2383.9	2381.1
5°	2356.0	2360.0	2364.3	2369.8	2378.9	2384.6	2387.6	2387.1	2383.4	2380.1	2377.1
5.5°	2349.0	2352.8	2358.0	2364.1	2374.1	2380.4	2383.9	2383.1	2379.1	2375.6	2372.1
6°	2340.7	2345.2	2351.5	2357.8	2368.3	2375.6	2379.6	2379.1	2374.6	2370.8	2367.1
6.5°	2332.7	2338.0	2344.0	2351.3	2362.6	2370.6	2375.1	2374.1	2369.6	2365.1	2360.8
7°	2323.4	2328.9	2336.0	2344.0	2356.0	2364.8	2369.6	2369.1	2363.8	2359.3	2354.3
7.5°	2313.6	2319.2	2327.2	2336.0	2349.0	2358.5	2363.3	2362.8	2357.8	2352.5	2347.0
8°	2303.1	2309.4	2317.9	2327.4	2341.5	2351.5	2356.5	2355.5	2351.3	2345.5	2339.2
8.5°	2291.8	2298.3	2307.6	2317.9	2333.2	2343.7	2349.5	2349.0	2343.7	2337.7	2330.7
9°	2279.5	2286.5	2296.3	2307.9	2324.7	2335.7	2341.5	2341.0	2336.0	2329.4	2321.7
9.5°	2267.0	2274.3	2284.8	2297.1	2314.9	2326.7	2333.2	2332.7	2327.9	2320.7	2311.9
10°	2253.2	2261.2	2272.5	2285.5	2304.9	2317.1	2323.4	2323.7	2318.7	2311.4	2301.6
10.5°	2238.1	2246.7	2259.7	2273.0	2293.6	2306.4	2313.6	2314.4	2309.1	2300.8	2291.1
11°	2223.1	2231.9	2244.9	2260.0	2281.8	2295.3	2303.4	2303.6	2298.6	2290.3	2279.3
11.5°	2206.0	2216.1	2229.6	2245.7	2269.5	2283.8	2292.1	2292.8	2287.8	2278.8	2266.7
12°	2188.2	2198.5	2213.0	2230.6	2256.2	2270.7	2279.8	2281.0	2276.3	2266.7	2254.2
12.5°	2169.9	2180.4	2195.7	2214.0	2241.1	2257.2	2267.7	2269.2	2264.0	2253.9	2240.6
13°	2151.1	2162.1	2177.7	2197.7	2225.8	2243.4	2253.7	2255.7	2250.7	2240.1	2226.3
13.5°	2131.3	2142.3	2159.4	2179.2	2209.8	2227.6	2239.9	2242.1	2236.9	2226.1	2211.8
14°	2110.7	2122.7	2139.5	2160.6	2192.7	2212.0	2224.6	2227.1	2222.1	2211.5	2195.7
14.5°	2090.4	2101.7	2119.2	2141.0	2174.7	2195.5	2208.8	2212.5	2207.5	2196.2	2180.2
15°	2069.6	2081.6	2098.9	2122.0	2156.1	2178.4	2192.7	2196.0	2191.5	2179.9	2163.9
15.5°	2048.5	2060.8	2078.3	2101.9	2137.8	2160.6	2176.4	2180.4	2175.4	2164.1	2147.3
16°	2027.9	2040.0	2058.3	2081.6	2118.7	2143.1	2159.6	2163.9	2159.4	2147.3	2130.3
16.5°	2006.6	2019.1	2037.4	2062.0	2099.9	2125.0	2141.5	2147.8	2142.8	2130.8	2112.7
17°	1986.3	1998.1	2016.9	2041.2	2079.8	2106.7	2123.7	2130.3	2125.5	2113.7	2094.6
17.5°	1965.2	1977.5	1995.8	2021.1	2060.0	2087.4	2105.9	2112.2	2108.2	2095.6	2077.1
18°	1944.6	1957.2	1975.7	2001.1	2040.7	2068.8	2087.4	2094.1	2090.4	2078.1	2058.3
18.5°	1923.8	1936.3	1954.9	1980.5	2020.9	2049.7	2069.1	2077.1	2072.1	2060.3	2039.7
19°	1904.7	1916.8	1935.1	1960.7	2001.3	2030.2	2050.5	2057.5	2054.3	2042.2	2021.6
19.5°	1885.4	1897.5	1916.0	1941.1	1982.5	2011.4	2031.9	2039.5	2036.4	2024.4	2004.1
20°	1867.6	1878.9	1897.0	1922.3	1962.9	1992.3	2012.9	2021.9	2018.9	2006.8	1986.0
20.5°	1848.6	1860.3	1878.4	1903.2	1944.4	1973.2	1994.8	2003.8	2001.1	1989.3	1968.0
21°	1830.0	1841.5	1860.1	1884.4	1925.8	1954.9	1976.2	1985.0	1983.3	1971.5	1950.1



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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°	1763.3	1779.6	1801.4	1828.2	1868.9	1899.5	1921.8	1931.8	1928.6	1915.5	1893.2
23°	1738.9	1755.0	1778.6	1807.7	1849.8	1879.2	1903.5	1912.8	1908.8	1893.2	1873.1
23.5°	1711.8	1728.1	1754.2	1784.3	1830.5	1859.1	1883.9	1892.2	1885.9	1871.1	1853.1
24°	1683.0	1700.5	1727.6	1759.5	1811.2	1838.8	1864.1	1871.6	1863.1	1848.8	1832.7
24.5°	1652.6	1670.4	1699.8	1733.2	1787.3	1818.7	1844.5	1851.3	1840.3	1826.5	1812.7
25°	1622.8	1640.3	1670.9	1704.3	1762.3	1798.6	1825.0	1830.7	1817.4	1804.1	1787.8
25.5°	1590.4	1608.7	1640.3	1674.2	1735.9	1774.3	1805.2	1810.2	1794.6	1779.3	1762.5
26°	1559.1	1578.9	1608.7	1641.3	1707.8	1748.7	1781.8	1784.8	1768.5	1751.5	1735.9
26.5°	1526.2	1547.5	1575.1	1607.2	1679.5	1722.1	1757.0	1760.0	1742.2	1724.1	1707.8
27°	1494.1	1515.7	1540.8	1572.6	1650.1	1694.0	1730.9	1731.7	1714.6	1696.8	1678.7
27.5°	1460.5	1483.1	1504.1	1538.7	1620.5	1666.4	1703.6	1704.3	1686.7	1669.2	1648.1
28°	1427.4	1450.2	1469.0	1505.6	1589.4	1637.6	1673.5	1674.2	1658.7	1640.8	1616.8
28.5°	1392.5	1416.8	1433.6	1472.8	1556.3	1608.2	1641.8	1644.4	1631.1	1612.2	1584.4
29°	1357.9	1382.7	1398.3	1440.7	1523.4	1577.6	1609.5	1612.7	1601.5	1582.4	1551.0
29.5°	1322.5	1347.1	1364.7	1409.6	1489.6	1546.3	1574.6	1580.6	1571.4	1552.0	1516.4
30°	1286.4	1310.5	1331.5	1377.7	1457.0	1513.7	1538.2	1546.3	1540.0	1519.9	1479.5
30.5°	1249.3	1274.1	1298.4	1346.6	1419.8	1479.0	1500.1	1511.7	1508.4	1487.6	1442.7
31°	1213.1	1237.7	1265.6	1313.0	1385.0	1443.4	1463.5	1475.8	1475.0	1455.0	1405.8
31.5°	1177.3	1200.8	1232.7	1280.1	1350.4	1405.8	1424.6	1439.2	1441.4	1420.1	1367.9
32°	1141.6	1164.7	1199.3	1244.7	1318.0	1368.9	1387.0	1401.8	1406.8	1385.0	1331.3
32.5°	1107.8	1128.6	1165.5	1209.9	1282.4	1332.0	1349.9	1365.4	1373.2	1349.9	1294.7
33°	1073.9	1094.2	1131.9	1173.5	1248.0	1293.7	1313.7	1328.8	1337.6	1315.5	1258.3
33.5°	1039.3	1059.9	1097.2	1136.6	1214.1	1255.0	1277.6	1292.2	1302.7	1279.1	1222.9
34°	1005.4	1025.0	1061.6	1099.2	1181.0	1214.9	1242.0	1256.0	1266.1	1241.7	1187.8
34.5°	971.1	989.6	1026.0	1063.9	1144.4	1175.0	1206.6	1220.7	1230.2	1205.9	1153.2
35°	936.2	953.8	991.1	1029.0	1109.0	1135.1	1170.5	1185.8	1192.8	1168.7	1118.1
35.5°	904.1	920.1	956.8	995.4	1072.4	1096.7	1134.9	1151.2	1156.7	1130.4	1083.4
36°	871.5	887.3	922.9	962.5	1037.8	1058.6	1099.0	1115.8	1118.3	1092.7	1048.8
36.5°	838.4	854.7	899.6	929.4	998.2	1021.5	1063.1	1081.4	1080.7	1054.6	1013.5
37°	805.5	821.8	864.9	891.5	961.3	984.6	1026.2	1045.6	1042.6	1017.5	977.6
37.5°	772.6	789.2	830.6	859.9	923.1	949.2	989.1	1010.2	1006.4	980.3	941.7
38°	739.8	756.6	796.2	828.1	887.0	914.9	952.5	974.3	969.3	943.7	905.3
38.5°	708.9	726.5	761.6	796.5	848.9	879.7	916.6	938.4	932.9	907.6	870.0
39°	679.3	696.9	729.7	764.9	813.5	845.9	881.0	902.6	897.6	872.5	835.3
39.5°	650.0	666.5	697.9	731.0	777.1	811.3	846.1	867.7	862.2	837.1	801.5
40°	621.4	636.4	666.3	697.1	743.5	778.4	811.3	832.3	826.1	802.5	767.1
40.5°	592.8	608.3	635.7	664.5	708.2	744.3	777.7	797.7	791.2	767.9	735.5
41°	565.4	580.0	604.8	632.4	675.8	711.9	745.0	764.9	756.3	732.2	702.1
41.5°	538.8	553.9	575.0	601.6	643.2	679.3	712.2	731.5	722.0	698.4	670.3
42°	513.2	527.5	546.1	571.4	612.1	648.2	680.3	698.9	687.3	665.3	638.2
42.5°	487.4	502.0	518.3	542.1	581.5	616.6	649.0	665.8	654.2	632.7	606.8
43°	462.8	476.9	490.4	513.0	551.6	586.2	617.9	634.2	621.6	601.6	575.7
43.5°	439.0	453.0	464.3	483.9	521.8	556.4	587.5	603.3	589.5	569.4	545.1



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CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	371.8	384.8	390.8	401.6	439.7	472.6	501.0	510.2	499.0	481.1	456.3
45.5°	351.2	363.7	368.0	376.5	414.9	445.5	473.6	480.4	470.6	453.5	428.5
46°	330.9	343.4	345.9	351.4	390.3	420.2	447.8	452.3	443.3	426.0	401.9
46.5°	311.6	323.9	324.4	328.1	367.0	395.6	421.2	423.4	416.4	399.1	376.0
47°	292.2	304.3	304.3	306.5	344.7	371.5	395.6	396.9	390.1	374.5	350.7
47.5°	274.9	286.0	285.0	286.0	323.1	348.4	370.5	370.8	364.7	350.4	327.1
48°	257.6	268.7	266.7	266.9	302.5	326.6	346.9	346.2	340.4	325.4	304.5
48.5°	241.1	251.9	249.6	249.9	283.2	305.8	323.4	322.1	317.1	302.8	283.0
49°	225.0	235.6	232.8	233.8	264.9	285.5	300.8	299.5	294.8	281.5	262.1
49.5°	210.0	220.0	217.5	218.5	247.3	266.4	279.5	278.4	272.9	260.6	244.6
50°	195.4	204.9	203.2	204.7	232.5	248.3	258.9	258.4	253.1	243.3	227.3
50.5°	181.6	190.6	189.6	191.4	217.5	232.5	241.6	241.1	236.1	226.0	210.0
51°	168.3	176.9	176.9	179.1	202.7	216.7	224.3	223.8	218.7	208.5	192.7
51.5°	155.5	163.8	164.3	167.1	187.6	201.2	207.0	206.7	201.4	191.2	175.3
52°	143.7	151.5	152.5	155.8	172.8	185.4	189.6	189.4	184.1	173.8	160.5
52.5°	132.2	139.7	141.2	144.5	160.0	169.6	172.3	172.3	167.1	158.3	146.8
53°	121.4	128.2	130.2	133.7	147.5	156.3	158.3	158.0	153.0	144.7	134.2
53.5°	111.1	117.4	119.9	123.4	136.2	143.5	145.2	144.2	140.0	132.2	122.2
54°	101.6	107.4	110.1	113.4	125.2	130.9	133.0	131.7	127.7	120.7	111.4
54.5°	93.3	98.3	100.8	104.1	114.4	119.4	121.2	119.9	115.9	109.4	101.1
55°	85.8	89.8	92.3	95.3	104.6	108.9	110.1	109.4	105.9	99.6	92.6
55.5°	78.5	82.5	84.8	87.8	95.3	98.8	100.1	99.6	96.3	91.1	84.3
56°	71.0	75.3	77.3	80.0	86.8	89.8	91.1	90.6	87.8	83.0	75.8
56.5°	63.5	68.0	69.7	72.2	78.8	81.5	82.8	82.0	79.5	74.3	67.7
57°	55.9	60.5	62.2	64.5	70.5	73.2	74.5	73.5	71.5	66.7	60.5
57.5°	50.4	53.2	54.7	56.7	62.7	65.2	66.2	66.0	63.7	59.5	53.9
58°	45.7	47.9	49.2	50.7	55.9	57.9	59.0	58.7	56.9	53.2	48.2
58.5°	41.4	43.4	44.2	45.2	49.9	51.7	52.4	52.4	50.9	47.7	43.1
59°	37.6	39.4	39.9	40.6	44.4	45.7	46.7	46.7	45.4	42.9	38.9
59.5°	34.4	35.9	35.9	36.6	39.6	40.9	41.6	41.6	40.6	38.4	34.9
60°	31.4	32.6	32.9	33.1	35.6	36.6	37.1	37.4	36.6	34.6	31.6
60.5°	28.6	29.9	29.9	29.9	32.1	32.9	33.4	33.9	33.1	31.6	28.8
61°	26.1	27.3	27.3	27.1	29.1	29.9	30.1	30.6	29.9	28.6	26.1
61.5°	24.1	25.1	25.1	24.8	26.3	27.1	27.3	27.8	27.1	26.1	24.1
62°	22.1	23.1	22.8	22.8	24.1	24.6	24.8	25.3	24.8	23.8	22.3
62.5°	20.6	21.3	21.1	20.8	22.3	22.8	22.8	23.1	22.6	22.1	20.8
63°	18.8	19.8	19.6	19.1	20.6	21.1	21.3	21.6	21.1	20.6	19.1
63.5°	17.3	18.3	17.8	17.6	18.8	19.3	19.6	19.8	19.6	18.8	17.6
64°	16.1	16.8	16.6	16.3	17.3	17.6	18.1	18.3	18.1	17.3	15.8
64.5°	14.8	15.6	15.3	15.1	15.6	15.8	16.6	16.8	16.6	15.6	14.5
65°	13.8	14.5	14.3	13.8	14.3	14.5	14.8	15.1	14.8	14.5	13.5
65.5°	12.8	13.3	13.3	12.8	13.3	13.5	13.8	14.0	13.8	13.5	12.5
66°	11.8	12.5	12.3	12.0	12.3	12.5	12.8	13.0	12.8	12.5	11.8



TEST NUMBER: P775982

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.5	10.0	9.8	9.5	9.8	10.0	10.3	10.3	10.3	10.0	9.3
68°	8.8	9.3	9.3	9.0	9.0	9.3	9.5	9.5	9.5	9.3	8.8
68.5°	8.3	8.8	8.8	8.5	8.5	8.5	8.8	9.0	8.8	8.8	8.0
69°	7.8	8.0	8.0	7.8	8.0	8.0	8.3	8.3	8.3	8.0	7.5
69.5°	7.0	7.5	7.5	7.3	7.5	7.5	7.8	7.8	7.8	7.5	7.0
70°	6.5	7.0	7.0	6.8	6.8	7.0	7.3	7.3	7.3	7.0	6.5
70.5°	6.0	6.5	6.5	6.3	6.5	6.5	6.8	6.8	6.8	6.5	6.0
71°	5.8	6.0	6.0	5.8	6.0	6.0	6.3	6.3	6.3	6.0	5.8
71.5°	5.3	5.5	5.5	5.5	5.5	5.5	5.8	5.8	5.8	5.5	5.3
72°	4.8	5.3	5.3	5.0	5.3	5.3	5.3	5.5	5.3	5.3	5.0
72.5°	4.5	4.8	4.8	4.8	4.8	5.0	5.0	5.0	5.0	4.8	4.5
73°	4.0	4.5	4.5	4.3	4.5	4.5	4.8	4.8	4.5	4.5	4.3
73.5°	3.8	4.0	4.0	4.0	4.3	4.3	4.3	4.3	4.3	4.0	4.0
74°	3.5	3.8	3.8	3.8	4.0	4.0	4.0	4.0	4.0	3.8	3.8
74.5°	3.3	3.5	3.5	3.5	3.5	3.8	3.8	3.8	3.8	3.5	3.3
75°	3.0	3.3	3.3	3.3	3.3	3.5	3.5	3.5	3.3	3.3	3.0
75.5°	2.8	3.0	3.0	3.0	3.0	3.3	3.3	3.3	3.0	3.0	2.8
76°	2.5	2.8	2.8	2.8	2.8	3.0	3.0	2.8	2.8	2.8	2.5
76.5°	2.3	2.5	2.5	2.5	2.8	2.8	2.8	2.8	2.5	2.5	2.5
77°	2.0	2.3	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.3	2.3
77.5°	1.8	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.0	2.0
78°	1.8	1.8	2.0	2.0	2.0	2.3	2.0	2.0	2.0	2.0	1.8
78.5°	1.5	1.8	1.8	1.8	2.0	2.0	2.0	1.8	1.8	1.8	1.8
79°	1.3	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.5
79.5°	1.3	1.3	1.5	1.5	1.5	1.8	1.5	1.5	1.5	1.3	1.5
80°	1.0	1.3	1.3	1.3	1.5	1.5	1.5	1.3	1.3	1.3	1.3
80.5°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0
81°	0.8	1.0	1.0	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0
81.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0
82°	0.5	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8
82.5°	0.5	0.5	0.8	0.8	0.8	1.0	0.8	0.8	0.8	0.5	0.8
83°	0.3	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
83.5°	0.3	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5
84°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5
84.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.5
85°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
85.5°	0.0	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3
86°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3
87°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	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: P775982
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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: P775982

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2397.4	2397.4	2397.4	2397.4	2397.4	2397.4
0.5°	2396.9	2396.7	2396.9	2396.4	2395.9	2394.7
1°	2396.4	2395.2	2394.7	2393.9	2393.4	2392.7
1.5°	2395.2	2393.2	2391.9	2391.1	2390.9	2389.9
2°	2393.4	2390.6	2389.1	2388.1	2387.6	2386.9
2.5°	2390.9	2387.6	2385.1	2383.6	2383.4	2383.1
3°	2388.4	2383.9	2381.1	2379.1	2378.6	2378.9
3.5°	2385.4	2379.9	2376.1	2374.1	2373.6	2373.8
4°	2381.6	2375.1	2370.8	2368.1	2367.8	2368.6
4.5°	2377.4	2370.1	2365.1	2362.3	2361.5	2362.8
5°	2372.6	2364.3	2358.8	2355.5	2354.5	2356.0
5.5°	2367.1	2358.0	2351.3	2348.3	2347.5	2349.0
6°	2361.3	2351.3	2344.0	2340.0	2339.5	2340.7
6.5°	2354.8	2343.5	2336.0	2331.9	2330.9	2332.7
7°	2347.5	2335.5	2326.9	2322.7	2321.2	2323.4
7.5°	2339.5	2326.7	2317.6	2312.9	2311.4	2313.6
8°	2331.2	2317.1	2307.9	2302.3	2300.8	2303.1
8.5°	2321.9	2306.6	2296.8	2291.3	2289.6	2291.8
9°	2312.1	2295.6	2285.3	2279.0	2277.0	2279.5
9.5°	2301.3	2284.0	2273.2	2265.7	2264.2	2267.0
10°	2290.3	2271.5	2259.7	2252.4	2249.9	2253.2
10.5°	2278.3	2257.9	2245.7	2237.9	2235.6	2238.1
11°	2265.5	2244.1	2230.9	2221.8	2218.8	2223.1
11.5°	2252.2	2229.6	2214.5	2204.8	2202.5	2206.0
12°	2238.6	2213.8	2197.7	2187.2	2184.4	2188.2
12.5°	2223.6	2197.5	2180.2	2168.9	2165.4	2169.9
13°	2208.5	2180.7	2162.1	2149.8	2146.1	2151.1
13.5°	2192.5	2163.6	2144.1	2130.3	2126.7	2131.3
14°	2176.2	2145.8	2124.5	2110.7	2106.4	2110.7
14.5°	2158.6	2127.5	2105.7	2091.1	2086.1	2090.4
15°	2142.1	2108.9	2085.1	2070.3	2064.8	2069.6
15.5°	2124.0	2089.9	2066.0	2050.0	2044.0	2048.5
16°	2106.2	2071.1	2045.7	2028.9	2023.1	2027.9
16.5°	2087.6	2052.2	2027.2	2008.6	2002.8	2006.6
17°	2069.6	2032.2	2006.8	1987.3	1982.0	1986.3
17.5°	2050.7	2013.6	1987.0	1967.5	1960.9	1965.2
18°	2031.7	1994.0	1966.7	1946.9	1940.6	1944.6
18.5°	2012.9	1974.7	1947.9	1927.1	1920.8	1923.8
19°	1994.5	1955.7	1928.8	1908.8	1901.7	1904.7
19.5°	1976.2	1937.9	1910.3	1890.2	1882.7	1885.4
20°	1958.4	1919.0	1891.4	1871.4	1863.9	1867.6
20.5°	1939.6	1900.2	1872.6	1852.8	1844.8	1848.6
21°	1922.3	1881.2	1852.3	1832.2	1825.7	1830.0



TEST NUMBER: P775982

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1865.1	1818.9	1785.1	1765.3	1758.7	1763.3
23°	1845.8	1795.1	1760.5	1738.9	1733.4	1738.9
23.5°	1826.2	1771.5	1734.4	1711.6	1706.6	1711.8
24°	1806.9	1746.0	1707.1	1682.7	1677.2	1683.0
24.5°	1783.6	1719.6	1679.2	1651.1	1646.4	1652.6
25°	1759.5	1692.0	1650.9	1618.5	1615.3	1622.8
25.5°	1733.2	1663.9	1621.5	1584.7	1581.1	1590.4
26°	1706.3	1635.6	1591.4	1550.5	1547.8	1559.1
26.5°	1676.2	1606.2	1559.8	1517.4	1512.4	1526.2
27°	1645.4	1576.4	1527.7	1484.8	1476.8	1494.1
27.5°	1611.7	1544.5	1494.6	1452.2	1441.4	1460.5
28°	1577.4	1511.9	1460.5	1420.6	1407.0	1427.4
28.5°	1540.8	1478.3	1425.6	1389.5	1372.2	1392.5
29°	1502.9	1442.9	1390.7	1358.1	1339.8	1357.9
29.5°	1464.5	1406.8	1355.4	1326.0	1305.4	1322.5
30°	1426.9	1369.4	1320.5	1293.7	1272.8	1286.4
30.5°	1388.0	1332.0	1285.1	1259.3	1240.5	1249.3
31°	1351.4	1293.9	1252.0	1224.7	1207.4	1213.1
31.5°	1315.5	1255.0	1217.4	1188.6	1173.8	1177.3
32°	1280.1	1216.6	1183.3	1151.4	1140.1	1141.6
32.5°	1245.5	1177.8	1148.9	1114.8	1105.8	1107.8
33°	1209.4	1138.6	1113.5	1079.2	1071.2	1073.9
33.5°	1174.3	1099.2	1076.9	1043.8	1036.5	1039.3
34°	1138.9	1062.1	1041.3	1008.7	1001.7	1005.4
34.5°	1103.3	1025.0	1004.4	973.6	965.8	971.1
35°	1066.9	988.4	967.8	940.7	931.9	936.2
35.5°	1030.5	954.0	930.4	908.6	898.3	904.1
36°	993.9	919.6	889.5	875.5	866.7	871.5
36.5°	957.5	886.0	854.9	842.6	835.1	838.4
37°	921.1	852.4	820.0	809.5	803.5	805.5
37.5°	885.5	819.0	785.4	776.6	772.1	772.6
38°	850.9	785.4	750.6	743.5	740.5	739.8
38.5°	817.0	752.1	716.2	710.4	709.7	708.9
39°	783.4	719.5	684.3	678.1	679.1	679.3
39.5°	750.8	687.1	652.0	645.7	647.2	650.0
40°	718.2	656.0	620.1	613.8	616.4	621.4
40.5°	686.3	624.9	589.5	582.7	586.5	592.8
41°	655.0	594.0	559.7	552.1	557.4	565.4
41.5°	624.1	563.9	530.1	522.8	528.8	538.8
42°	593.5	535.6	502.0	494.2	500.5	513.2
42.5°	564.2	506.7	474.9	466.1	473.9	487.4
43°	535.3	479.4	448.5	438.7	447.5	462.8
43.5°	507.0	452.5	422.9	411.7	422.2	439.0



TEST NUMBER: P775982

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	426.7	378.0	352.2	338.7	350.9	371.8
45.5°	401.6	354.7	330.9	316.6	328.9	351.2
46°	376.8	332.6	310.3	295.5	307.8	330.9
46.5°	352.5	311.6	290.2	275.7	288.0	311.6
47°	329.1	291.2	271.7	257.9	269.4	292.2
47.5°	306.0	271.2	253.9	241.3	251.6	274.9
48°	284.2	252.9	237.1	225.3	235.3	257.6
48.5°	264.2	235.6	221.0	210.5	219.7	241.1
49°	244.3	218.7	205.5	196.4	204.9	225.0
49.5°	227.3	202.9	190.9	183.9	191.9	210.0
50°	210.2	187.4	177.1	171.6	178.6	195.4
50.5°	193.2	172.8	163.8	159.5	166.6	181.6
51°	176.1	159.3	151.3	148.3	154.8	168.3
51.5°	161.8	146.2	139.5	137.7	143.5	155.5
52°	148.5	134.2	128.2	127.4	132.7	143.7
52.5°	135.5	122.2	117.7	117.4	122.7	132.2
53°	123.9	111.1	107.6	107.6	112.9	121.4
53.5°	112.9	101.1	98.3	98.8	103.6	111.1
54°	102.6	92.1	89.6	90.6	94.8	101.6
54.5°	93.6	84.5	82.3	83.3	87.8	93.3
55°	85.3	77.0	75.0	76.0	80.3	85.8
55.5°	77.0	69.2	67.5	68.7	72.7	78.5
56°	68.7	61.7	60.2	61.5	65.2	71.0
56.5°	61.5	54.2	52.9	54.2	57.7	63.5
57°	54.7	48.2	47.2	48.4	51.7	55.9
57.5°	48.7	43.1	42.4	43.6	46.7	50.4
58°	43.4	38.9	38.1	39.4	42.4	45.7
58.5°	39.1	34.9	34.6	35.6	38.4	41.4
59°	35.1	31.6	31.4	32.6	35.1	37.6
59.5°	31.9	28.6	28.3	29.6	31.9	34.4
60°	28.8	26.1	25.8	27.1	29.4	31.4
60.5°	26.3	23.8	23.6	24.8	26.8	28.6
61°	24.1	21.8	21.6	22.8	24.6	26.1
61.5°	22.3	20.1	19.8	21.1	22.8	24.1
62°	20.6	18.3	18.3	19.3	21.1	22.1
62.5°	19.1	16.8	16.8	17.8	19.3	20.6
63°	17.3	15.6	15.6	16.6	17.8	18.8
63.5°	15.8	14.3	14.5	15.3	16.6	17.3
64°	14.5	13.3	13.3	14.0	15.3	16.1
64.5°	13.5	12.3	12.3	13.0	14.0	14.8
65°	12.5	11.5	11.5	12.0	13.0	13.8
65.5°	11.5	10.5	10.8	11.3	12.3	12.8
66°	10.8	9.8	10.0	10.5	11.3	11.8



TEST NUMBER: P775982

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	8.5	8.0	8.0	8.5	9.0	9.5
68°	8.0	7.5	7.5	8.0	8.5	8.8
68.5°	7.5	7.0	7.0	7.3	7.8	8.3
69°	7.0	6.5	6.5	6.8	7.3	7.8
69.5°	6.5	6.0	6.0	6.3	6.8	7.0
70°	6.0	5.5	5.5	6.0	6.3	6.5
70.5°	5.8	5.3	5.3	5.5	5.8	6.0
71°	5.3	4.8	4.8	5.0	5.3	5.8
71.5°	5.0	4.5	4.5	4.8	5.0	5.3
72°	4.5	4.3	4.3	4.5	4.5	4.8
72.5°	4.3	3.8	3.8	4.0	4.3	4.5
73°	4.0	3.5	3.5	3.8	4.0	4.0
73.5°	3.8	3.3	3.3	3.5	3.5	3.8
74°	3.5	3.0	3.0	3.3	3.3	3.5
74.5°	3.3	2.8	2.8	3.0	3.0	3.3
75°	3.0	2.5	2.5	2.8	2.8	3.0
75.5°	2.8	2.5	2.5	2.5	2.5	2.8
76°	2.5	2.3	2.3	2.3	2.3	2.5
76.5°	2.3	2.0	2.0	2.0	2.0	2.3
77°	2.0	1.8	1.8	1.8	2.0	2.0
77.5°	2.0	1.8	1.8	1.8	1.8	1.8
78°	1.8	1.5	1.5	1.5	1.5	1.8
78.5°	1.5	1.5	1.5	1.5	1.5	1.5
79°	1.5	1.3	1.3	1.3	1.3	1.3
79.5°	1.3	1.3	1.3	1.3	1.0	1.3
80°	1.3	1.0	1.0	1.0	1.0	1.0
80.5°	1.0	1.0	1.0	1.0	0.8	1.0
81°	1.0	0.8	0.8	0.8	0.8	0.8
81.5°	0.8	0.8	0.8	0.8	0.8	0.8
82°	0.8	0.8	0.8	0.5	0.5	0.5
82.5°	0.8	0.5	0.5	0.5	0.5	0.5
83°	0.5	0.5	0.5	0.5	0.5	0.3
83.5°	0.5	0.5	0.5	0.5	0.3	0.3
84°	0.5	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.0	0.0
86°	0.3	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: P775982

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-3500K

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°	1809.2	1822.2	1841.3	1865.9	1907.5	1936.3	1957.9	1967.2	1965.4	1953.4	1932.1
22°	1787.6	1802.6	1822.0	1847.5	1888.2	1918.3	1939.4	1949.4	1947.4	1934.8	1913.5



44°	415.7	429.2	439.0	456.1	493.7	527.5	557.9	571.4	558.7	538.6	514.8
44.5°	393.6	406.6	414.4	428.5	466.6	499.0	529.1	540.1	528.3	510.0	485.4



66.5°	11.0	11.5	11.5	11.0	11.3	11.5	11.8	12.0	11.8	11.5	10.8
67°	10.3	10.8	10.5	10.3	10.5	10.8	11.0	11.0	11.0	10.8	10.0



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°	1904.0	1861.3	1831.2	1810.4	1805.2	1809.2
22°	1884.4	1840.3	1808.7	1788.6	1782.6	1787.6



44°	479.6	427.0	398.6	386.8	397.9	415.7
44.5°	453.3	402.1	374.8	362.2	374.3	393.6

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66.5°	10.0	9.3	9.3	9.8	10.5	11.0
67°	9.3	8.5	8.8	9.3	9.8	10.3

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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)