

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: P776177

Luminaire Tested: HCDJBL51525CSD-HCD8TRC-2500lm-3500K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776177  
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-HCD8TRC-2500lm-3500K  
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

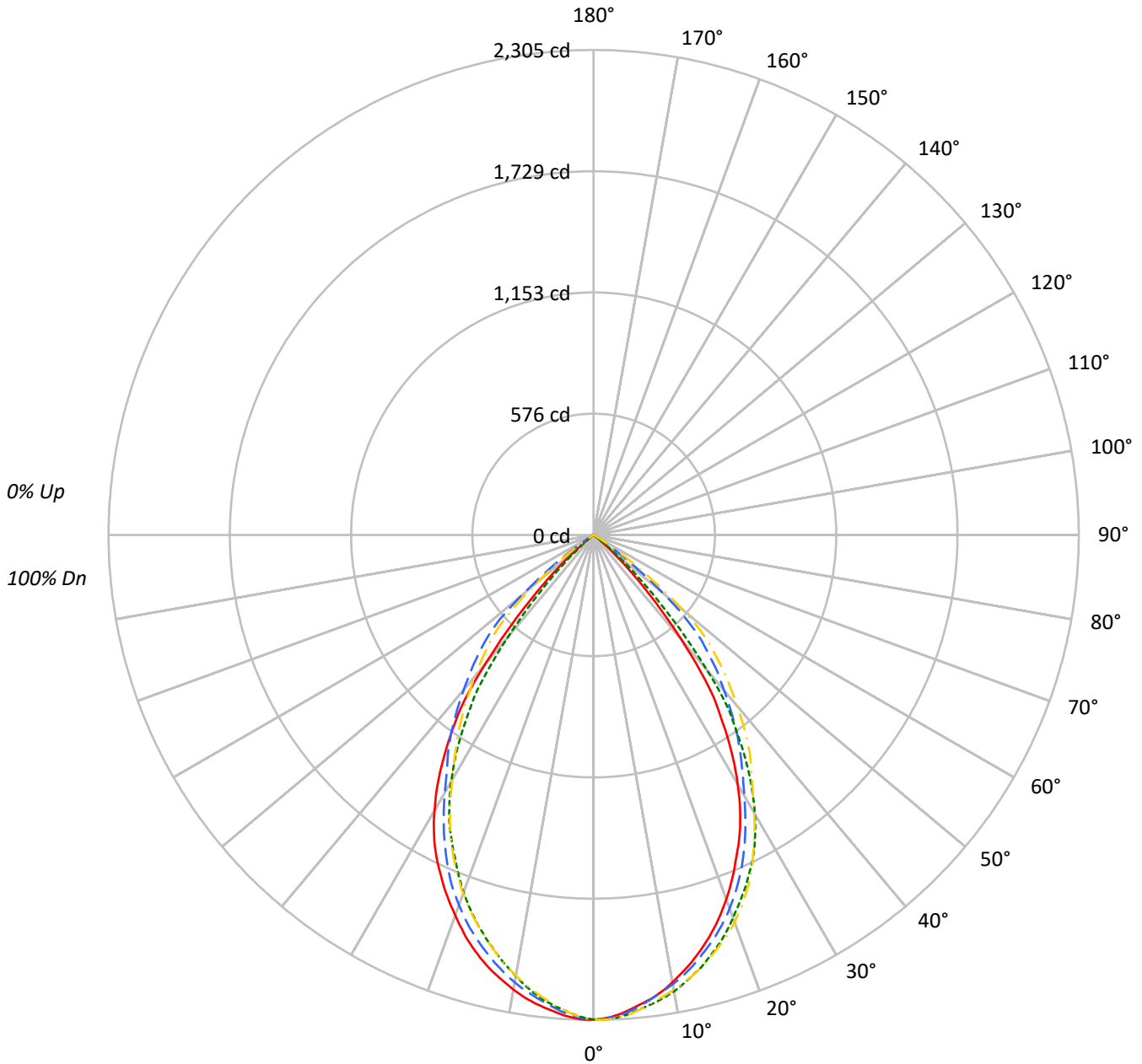
Lumens per Lamp: N/A  
Luminaire Lumens: 2734.1 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P776177  
CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3500K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	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	89	85	82	87	83	80	85	82	79	78				78															
4	95	86	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71				71															
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65				65															
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60				60															
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55															
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51				51															
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47				47															
10	67	56	50	46	66	56	50	46	55	50	46	54	49	45	54	49	45	44				44															

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

	0°	90°	180°	270°
0°	70311	70311	70311	70311
5°	69041	69633	69565	68704
10°	66907	68262	68026	66020
15°	63878	66034	65765	62658
20°	59875	62906	62500	58709
25°	54821	59231	58699	53858
30°	48279	53990	53328	47747
35°	39138	45683	44926	38851
40°	25706	33314	31963	25347
45°	11286	17115	16053	11036
50°	2465	4968	4431	2384
55°	319	479	442	309
60°	263	385	354	244
65°	217	325	289	202
70°	179	268	250	161
75°	153	236	212	153
80°	141	229	176	141
85°	105	175	175	105

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 35862 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.6	7.8
10°-20°	572.2	20.9
20°-30°	769.6	28.1
30°-40°	727.2	26.6
40°-50°	390.3	14.3
50°-60°	56.5	2.1
60°-70°	3.7	0.1
70°-80°	1.7	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°	1554.4	56.9
0°-40°	2281.5	83.4
0°-60°	2728.3	99.8
0°-90°	2734.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2734.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2303	2303	2303	2303	2303	
5°	2253	2272	2270	2242	2253	212
15°	2021	2089	2081	1982	2021	566
25°	1627	1758	1742	1599	1627	743
35°	1050	1226	1205	1042	1050	643
45°	261	396	372	256	261	217
55°	6	9	8	6	6	10
65°	3	4	4	3	3	3
75°	1	2	2	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776177

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0
0.5°	2302.7	2303.0	2302.7	2303.2	2303.7	2304.2	2304.5	2305.2	2304.7	2303.5	2301.5
1°	2300.5	2301.2	2301.5	2303.0	2304.2	2304.7	2305.2	2305.2	2304.2	2302.0	2299.0
1.5°	2296.9	2298.7	2299.2	2301.2	2303.2	2304.2	2304.5	2304.5	2302.5	2299.7	2296.2
2°	2292.9	2295.4	2296.2	2298.7	2301.7	2302.5	2302.7	2302.7	2300.2	2296.4	2292.2
2.5°	2288.2	2291.2	2292.2	2295.4	2299.2	2300.0	2300.5	2300.2	2296.9	2292.2	2287.4
3°	2282.1	2285.7	2287.4	2290.9	2295.4	2296.7	2296.9	2296.4	2293.2	2287.7	2281.6
3.5°	2275.6	2279.4	2281.6	2285.7	2290.9	2292.4	2292.7	2291.9	2288.2	2281.9	2275.1
4°	2267.6	2272.1	2275.4	2279.9	2285.4	2287.2	2287.7	2286.9	2282.4	2275.4	2267.6
4.5°	2260.6	2265.1	2268.1	2272.4	2278.9	2281.1	2281.9	2280.6	2276.1	2268.3	2259.6
5°	2252.8	2258.3	2259.8	2264.8	2272.1	2274.1	2275.1	2274.1	2269.9	2260.8	2251.0
5.5°	2245.0	2250.3	2251.3	2256.3	2265.3	2267.1	2267.3	2267.1	2264.1	2253.3	2242.8
6°	2237.0	2242.0	2242.5	2248.8	2259.3	2260.3	2259.3	2261.1	2257.6	2246.0	2234.2
6.5°	2230.0	2234.2	2233.2	2240.8	2253.3	2253.8	2251.3	2254.0	2251.5	2238.2	2225.4
7°	2222.2	2226.7	2223.7	2232.7	2247.0	2247.0	2242.5	2247.3	2245.3	2230.7	2217.2
7.5°	2212.9	2218.2	2214.2	2225.2	2241.3	2240.5	2234.2	2239.7	2237.7	2222.4	2208.4
8°	2203.6	2209.1	2205.1	2217.4	2234.5	2233.7	2226.7	2231.7	2230.2	2213.9	2199.1
8.5°	2193.8	2199.4	2195.8	2209.1	2227.2	2226.7	2218.4	2223.2	2222.2	2204.6	2189.8
9°	2182.3	2188.8	2186.8	2199.6	2218.7	2218.4	2211.1	2214.7	2213.2	2195.6	2180.5
9.5°	2170.5	2177.5	2177.5	2190.3	2210.6	2210.1	2203.4	2204.9	2204.1	2186.3	2170.5
10°	2158.2	2165.7	2168.3	2180.5	2201.9	2201.6	2195.1	2194.8	2194.3	2176.3	2160.0
10.5°	2145.4	2153.2	2158.2	2170.8	2192.3	2192.6	2187.1	2184.6	2184.1	2166.2	2148.7
11°	2132.6	2139.4	2147.9	2159.7	2182.6	2182.6	2178.0	2174.0	2173.0	2155.0	2137.1
11.5°	2120.3	2125.9	2136.9	2148.7	2171.3	2172.3	2168.5	2162.5	2162.5	2143.7	2125.1
12°	2107.5	2112.6	2124.9	2136.6	2159.7	2161.0	2159.0	2150.9	2152.2	2132.1	2112.8
12.5°	2094.5	2099.3	2112.3	2124.6	2148.7	2148.9	2149.2	2139.4	2141.7	2121.3	2100.0
13°	2080.9	2085.5	2100.3	2112.1	2137.9	2136.9	2139.4	2128.9	2131.4	2110.3	2087.7
13.5°	2066.1	2071.9	2086.5	2100.3	2127.4	2125.9	2128.9	2118.1	2119.3	2099.8	2073.9
14°	2051.3	2057.6	2073.4	2088.5	2115.8	2114.8	2118.1	2107.8	2106.5	2088.5	2059.9
14.5°	2036.0	2042.6	2059.4	2076.7	2102.5	2103.3	2106.3	2096.3	2094.0	2075.9	2045.8
15°	2021.0	2027.0	2045.8	2064.1	2089.2	2091.2	2094.0	2084.0	2080.7	2062.6	2031.3
15.5°	2005.2	2012.0	2031.3	2050.3	2075.4	2077.9	2080.9	2071.2	2067.4	2049.1	2017.2
16°	1989.1	1996.2	2018.2	2036.3	2062.1	2064.6	2067.9	2059.1	2053.4	2035.0	2002.9
16.5°	1972.3	1980.6	2003.7	2022.0	2048.6	2050.6	2055.1	2045.6	2039.1	2021.0	1988.9
17°	1955.0	1964.3	1988.4	2007.2	2034.0	2037.3	2042.3	2032.3	2024.5	2005.9	1973.3
17.5°	1937.5	1948.5	1972.3	1992.1	2019.5	2023.0	2029.8	2018.5	2008.7	1990.6	1958.5
18°	1919.1	1931.4	1957.8	1976.8	2003.7	2008.7	2017.7	2004.4	1991.9	1974.3	1941.7
18.5°	1900.3	1913.9	1941.2	1961.3	1987.6	1993.4	2003.9	1989.6	1975.1	1957.5	1924.7
19°	1881.5	1896.3	1924.4	1944.7	1971.1	1977.6	1989.6	1973.8	1958.5	1940.2	1907.3
19.5°	1862.4	1878.5	1907.1	1927.2	1953.5	1961.5	1974.1	1957.5	1940.7	1922.9	1889.5
20°	1842.9	1859.7	1889.5	1909.6	1936.2	1944.7	1958.3	1941.0	1923.7	1905.1	1871.5
20.5°	1823.1	1840.9	1870.7	1891.3	1919.1	1927.7	1941.2	1923.9	1906.6	1886.5	1853.4
21°	1802.0	1821.8	1851.4	1872.7	1901.8	1910.1	1924.7	1906.8	1889.3	1868.0	1835.3



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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°	1737.3	1760.8	1793.0	1815.0	1849.9	1858.4	1870.0	1854.7	1837.4	1812.5	1776.6
23°	1713.9	1738.8	1771.6	1795.2	1832.3	1841.1	1851.2	1837.1	1820.0	1792.7	1755.3
23.5°	1691.4	1717.2	1750.8	1776.4	1815.0	1823.8	1832.3	1819.5	1799.5	1772.9	1733.5
24°	1669.3	1693.9	1728.7	1756.8	1795.5	1804.5	1813.5	1799.7	1779.9	1752.8	1710.9
24.5°	1648.2	1671.8	1705.9	1737.5	1776.6	1785.9	1791.9	1779.9	1760.8	1732.5	1688.1
25°	1627.4	1650.2	1683.1	1717.4	1758.3	1766.4	1769.9	1759.8	1742.5	1711.9	1664.3
25.5°	1605.1	1629.1	1659.5	1697.1	1740.8	1746.3	1746.8	1738.8	1724.0	1692.4	1640.7
26°	1582.0	1609.6	1635.7	1676.8	1721.5	1727.0	1723.7	1718.4	1704.4	1673.5	1616.6
26.5°	1558.4	1589.2	1611.6	1656.7	1700.4	1708.4	1698.9	1698.6	1683.3	1654.7	1592.3
27°	1533.6	1567.9	1586.2	1637.7	1678.8	1690.8	1673.8	1680.1	1661.2	1635.7	1567.9
27.5°	1508.2	1545.6	1561.2	1618.9	1656.5	1672.0	1649.5	1661.2	1638.7	1615.6	1543.1
28°	1481.4	1521.8	1534.8	1598.5	1633.2	1652.2	1625.1	1641.7	1615.1	1594.3	1518.0
28.5°	1454.8	1498.4	1509.2	1577.7	1609.1	1631.6	1600.5	1620.1	1591.0	1572.4	1492.9
29°	1426.7	1474.4	1483.1	1554.9	1583.7	1609.8	1577.0	1599.3	1565.7	1549.6	1467.3
29.5°	1398.6	1449.5	1457.0	1532.1	1557.9	1587.5	1551.4	1576.2	1539.1	1525.8	1440.5
30°	1369.5	1423.4	1431.7	1508.2	1531.5	1564.2	1527.0	1552.6	1512.7	1501.2	1413.4
30.5°	1339.9	1396.1	1406.6	1483.4	1504.0	1539.6	1501.4	1528.3	1484.9	1475.1	1387.6
31°	1307.8	1368.7	1381.8	1457.8	1476.1	1514.5	1476.1	1503.5	1457.5	1449.0	1362.7
31.5°	1279.2	1341.6	1358.7	1431.5	1447.0	1488.4	1450.3	1476.9	1428.4	1421.9	1338.9
32°	1247.3	1313.8	1335.6	1404.9	1417.9	1461.8	1426.2	1450.8	1399.6	1394.8	1316.8
32.5°	1216.2	1284.9	1312.8	1378.3	1388.1	1434.7	1402.6	1423.4	1368.2	1367.2	1295.2
33°	1182.8	1256.3	1290.0	1351.4	1357.7	1407.1	1380.8	1395.8	1337.6	1339.4	1275.2
33.5°	1151.7	1227.0	1266.9	1323.8	1326.1	1379.0	1359.7	1367.5	1305.0	1309.8	1254.6
34°	1117.6	1197.1	1244.8	1295.7	1293.5	1351.2	1339.4	1338.6	1272.2	1280.9	1234.0
34.5°	1084.5	1166.5	1222.7	1266.9	1259.4	1321.3	1318.8	1309.8	1238.3	1250.1	1212.2
35°	1050.1	1135.4	1200.4	1238.8	1225.7	1291.0	1298.5	1280.2	1205.4	1219.7	1191.1
35.5°	1018.8	1104.1	1177.8	1209.4	1192.4	1260.4	1276.9	1250.6	1171.1	1188.6	1168.3
36°	986.7	1072.7	1153.7	1179.3	1158.5	1229.8	1254.6	1219.7	1137.7	1157.3	1146.0
36.5°	955.8	1040.6	1129.9	1149.0	1125.4	1197.1	1231.8	1188.4	1105.6	1125.1	1122.6
37°	915.7	1009.7	1105.8	1117.9	1093.3	1164.5	1208.2	1157.0	1073.2	1093.8	1099.3
37.5°	870.8	979.4	1082.0	1087.0	1062.7	1131.9	1183.6	1125.6	1035.3	1061.7	1075.5
38°	825.9	949.5	1057.4	1055.9	1023.8	1099.8	1159.0	1094.5	995.7	1030.8	1052.4
38.5°	781.2	919.2	1033.1	1025.5	981.6	1068.7	1134.7	1063.2	950.5	1000.5	1029.3
39°	736.3	878.0	1010.0	997.2	936.7	1038.6	1110.3	1034.1	903.1	970.6	1006.5
39.5°	691.4	836.4	986.4	967.8	886.1	1010.2	1085.3	1004.5	851.9	936.2	983.2
40°	645.0	794.7	963.8	940.5	835.9	974.4	1060.9	974.1	802.0	897.9	960.6
40.5°	598.8	753.1	940.3	908.1	786.2	935.7	1037.1	942.0	753.6	856.5	938.2
41°	556.4	711.5	917.9	867.5	738.6	894.1	1013.3	904.4	706.9	812.8	916.2
41.5°	514.0	667.3	905.6	826.6	692.9	848.2	990.2	864.5	662.0	767.7	894.8
42°	475.1	624.9	881.3	785.7	647.0	801.5	966.3	821.8	616.1	723.3	873.0
42.5°	437.3	582.5	856.7	745.1	604.3	755.6	944.0	778.4	573.0	681.4	852.2
43°	400.6	540.1	832.4	704.2	558.2	711.7	921.7	735.5	528.6	640.0	831.4
43.5°	362.8	499.7	807.8	662.8	515.8	669.3	898.9	693.4	486.2	600.6	810.1



TEST NUMBER: P776177

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	261.4	390.4	743.3	547.4	396.4	544.4	830.6	574.5	371.8	481.4	745.6
45.5°	230.5	354.7	722.0	508.8	361.2	503.5	807.5	534.6	336.9	444.3	724.8
46°	202.2	320.9	698.7	472.6	324.9	464.4	785.0	495.2	303.0	407.2	703.7
46.5°	174.1	287.7	671.1	435.3	292.5	427.2	762.9	457.3	270.9	374.5	679.4
47°	148.3	256.9	639.2	400.4	263.4	391.1	742.3	420.5	242.8	339.9	655.8
47.5°	124.2	227.0	606.6	365.8	234.6	355.5	716.0	385.3	214.7	308.3	628.2
48°	104.1	198.7	574.2	334.2	205.7	321.6	689.9	351.0	186.4	276.2	601.1
48.5°	86.5	171.8	543.1	301.5	176.6	289.0	660.0	318.1	158.5	248.4	564.7
49°	74.8	146.8	507.0	271.2	148.0	260.2	624.2	285.7	135.0	220.3	525.8
49.5°	63.5	123.4	470.4	241.1	125.2	231.8	587.0	257.9	113.6	192.4	484.2
50°	51.9	102.4	430.5	212.7	104.6	203.2	546.4	229.8	93.3	164.6	443.5
50.5°	40.6	83.8	390.4	184.9	85.8	174.9	506.3	201.9	75.5	141.0	404.9
51°	31.6	72.5	351.2	160.3	69.0	146.3	465.6	174.1	59.7	119.4	367.5
51.5°	22.8	61.2	314.6	136.7	54.9	123.9	426.2	146.3	49.7	99.8	331.4
52°	14.3	49.7	280.0	115.1	45.9	103.4	386.3	123.4	39.4	80.8	295.8
52.5°	8.8	38.4	247.4	95.6	36.9	84.0	349.5	102.4	29.4	64.0	266.2
53°	7.8	29.6	216.0	81.3	27.6	67.5	312.6	83.5	19.1	49.4	236.3
53.5°	7.3	21.3	186.6	67.2	18.6	53.4	278.0	66.2	9.3	40.9	206.7
54°	6.8	13.0	159.8	52.9	9.8	44.2	247.6	51.2	8.8	32.4	176.9
54.5°	6.3	7.3	135.5	38.6	9.3	35.1	217.3	42.4	8.5	23.8	147.3
55°	6.0	6.8	113.4	24.6	9.0	26.1	187.1	33.6	8.3	15.3	124.7
55.5°	5.8	6.3	93.8	14.3	8.5	17.1	156.8	24.6	8.0	7.0	104.1
56°	5.5	6.0	80.5	7.8	8.3	8.0	132.0	15.8	7.8	6.8	85.3
56.5°	5.5	5.5	67.5	7.3	8.0	7.5	109.1	7.3	7.5	6.5	69.0
57°	5.3	5.3	54.2	7.0	7.8	7.3	88.8	7.0	7.3	6.3	54.7
57.5°	5.0	5.3	41.1	6.8	7.5	7.0	70.7	6.8	7.0	6.3	43.1
58°	4.8	5.0	28.1	6.5	7.3	6.8	55.2	6.8	6.8	6.0	36.4
58.5°	4.8	4.8	21.6	6.3	7.0	6.5	42.4	6.5	6.5	5.8	29.9
59°	4.5	4.8	16.6	6.0	6.8	6.5	35.6	6.3	6.3	5.5	23.1
59.5°	4.5	4.5	12.8	5.8	6.5	6.3	29.1	6.0	6.0	5.5	16.6
60°	4.3	4.5	9.8	5.8	6.3	6.0	22.8	5.8	5.8	5.3	10.0
60.5°	4.0	4.3	8.3	5.5	6.0	5.8	16.3	5.8	5.8	5.0	7.5
61°	4.0	4.3	7.0	5.3	6.0	5.5	9.8	5.5	5.5	5.0	5.5
61.5°	3.8	4.0	5.8	5.3	5.8	5.5	7.3	5.3	5.3	4.8	4.5
62°	3.8	4.0	4.3	5.0	5.5	5.3	5.8	5.3	5.0	4.5	4.0
62.5°	3.5	3.8	4.3	4.8	5.3	5.0	4.8	5.0	5.0	4.5	4.0
63°	3.5	3.8	4.0	4.8	5.3	5.0	4.5	4.8	4.8	4.3	3.8
63.5°	3.3	3.5	4.0	4.5	5.0	4.8	4.5	4.8	4.5	4.3	3.8
64°	3.3	3.5	3.8	4.5	4.8	4.8	4.3	4.5	4.5	4.0	3.5
64.5°	3.0	3.3	3.8	4.3	4.8	4.5	4.3	4.3	4.3	4.0	3.5
65°	3.0	3.3	3.5	4.0	4.5	4.3	4.0	4.3	4.0	3.8	3.3
65.5°	2.8	3.3	3.5	4.0	4.3	4.3	4.0	4.0	4.0	3.8	3.3
66°	2.8	3.0	3.3	3.8	4.3	4.0	3.8	4.0	3.8	3.5	3.0





TEST NUMBER: P776177

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.5	2.8	3.0	3.5	3.8	3.8	3.5	3.5	3.3	3.3	2.8
68°	2.3	2.5	3.0	3.3	3.5	3.5	3.3	3.3	3.3	3.0	2.8
68.5°	2.3	2.5	2.8	3.3	3.5	3.5	3.3	3.3	3.0	3.0	2.5
69°	2.3	2.3	2.8	3.0	3.3	3.3	3.0	3.0	3.0	2.8	2.5
69.5°	2.0	2.3	2.5	3.0	3.3	3.3	3.0	3.0	2.8	2.8	2.5
70°	2.0	2.3	2.5	2.8	3.0	3.0	2.8	2.8	2.8	2.5	2.3
70.5°	2.0	2.0	2.3	2.8	3.0	3.0	2.8	2.8	2.8	2.5	2.3
71°	1.8	2.0	2.3	2.5	3.0	2.8	2.5	2.5	2.5	2.5	2.0
71.5°	1.8	2.0	2.3	2.5	2.8	2.8	2.5	2.5	2.5	2.3	2.0
72°	1.8	1.8	2.0	2.5	2.8	2.5	2.3	2.5	2.3	2.3	2.0
72.5°	1.8	1.8	2.0	2.3	2.5	2.5	2.3	2.3	2.3	2.0	1.8
73°	1.5	1.8	1.8	2.3	2.5	2.5	2.0	2.3	2.3	2.0	1.8
73.5°	1.5	1.8	1.8	2.0	2.3	2.3	2.0	2.0	2.0	2.0	1.5
74°	1.5	1.5	1.8	2.0	2.3	2.3	2.0	2.0	2.0	1.8	1.5
74.5°	1.5	1.5	1.5	2.0	2.3	2.3	1.8	2.0	2.0	1.8	1.5
75°	1.3	1.5	1.5	1.8	2.0	2.0	1.8	1.8	1.8	1.8	1.3
75.5°	1.3	1.3	1.5	1.8	2.0	2.0	1.5	1.8	1.8	1.5	1.3
76°	1.3	1.3	1.3	1.8	2.0	1.8	1.5	1.8	1.8	1.5	1.3
76.5°	1.3	1.3	1.3	1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.3
77°	1.0	1.3	1.3	1.5	1.8	1.8	1.3	1.5	1.5	1.3	1.0
77.5°	1.0	1.0	1.0	1.5	1.8	1.5	1.3	1.5	1.5	1.3	1.0
78°	1.0	1.0	1.0	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.0
78.5°	1.0	1.0	1.0	1.3	1.5	1.5	1.0	1.3	1.3	1.3	1.0
79°	1.0	1.0	1.0	1.3	1.5	1.3	1.0	1.3	1.3	1.0	0.8
79.5°	0.8	0.8	0.8	1.3	1.3	1.3	1.0	1.0	1.3	1.0	0.8
80°	0.8	0.8	0.8	1.0	1.3	1.3	1.0	1.0	1.0	1.0	0.8
80.5°	0.8	0.8	0.8	1.0	1.3	1.0	0.8	1.0	1.0	0.8	0.8
81°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	1.0	0.8	0.5
81.5°	0.5	0.8	0.5	0.8	1.0	1.0	0.8	0.8	1.0	0.8	0.5
82°	0.5	0.5	0.5	0.8	1.0	1.0	0.8	0.8	0.8	0.8	0.5
82.5°	0.5	0.5	0.5	0.8	1.0	0.8	0.5	0.8	0.8	0.5	0.5
83°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.8	0.5	0.5
83.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.8	0.5	0.3
84°	0.3	0.3	0.3	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.3
84.5°	0.3	0.3	0.3	0.5	0.8	0.5	0.5	0.5	0.5	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.5	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.5	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.3	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: P776177  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-2500lm-3500K

**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: P776177

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0
0.5°	2301.0	2299.5	2300.0	2300.5	2301.7	2302.7
1°	2298.2	2296.2	2295.7	2296.9	2299.0	2300.5
1.5°	2294.2	2291.2	2290.9	2292.2	2294.9	2296.9
2°	2289.4	2285.7	2284.7	2286.4	2289.7	2292.9
2.5°	2283.9	2278.9	2277.9	2279.9	2283.9	2288.2
3°	2277.1	2271.6	2270.9	2272.6	2277.4	2282.1
3.5°	2269.9	2264.3	2262.3	2264.8	2269.6	2275.6
4°	2262.6	2257.1	2255.1	2255.6	2261.3	2267.6
4.5°	2255.6	2249.8	2246.8	2246.3	2252.3	2260.6
5°	2248.0	2241.8	2238.2	2237.2	2243.5	2252.8
5.5°	2240.0	2233.0	2229.0	2227.2	2234.2	2245.0
6°	2231.2	2224.7	2219.7	2216.9	2224.2	2237.0
6.5°	2222.4	2214.9	2210.1	2206.9	2214.7	2230.0
7°	2213.4	2205.1	2199.1	2196.3	2205.6	2222.2
7.5°	2203.1	2193.6	2187.8	2185.3	2195.6	2212.9
8°	2192.1	2182.0	2176.0	2174.8	2185.3	2203.6
8.5°	2180.0	2169.5	2163.0	2162.7	2174.5	2193.8
9°	2167.7	2156.5	2149.9	2151.2	2163.2	2182.3
9.5°	2154.7	2143.4	2135.9	2139.4	2151.4	2170.5
10°	2141.4	2129.6	2122.3	2127.1	2138.9	2158.2
10.5°	2128.1	2115.6	2107.5	2114.6	2125.9	2145.4
11°	2114.1	2101.8	2092.7	2101.5	2112.6	2132.6
11.5°	2100.0	2088.2	2077.9	2088.0	2099.3	2120.3
12°	2086.2	2074.2	2064.1	2073.9	2085.5	2107.5
12.5°	2072.9	2059.1	2049.6	2059.6	2072.2	2094.5
13°	2059.4	2044.1	2035.5	2045.1	2058.6	2080.9
13.5°	2044.6	2028.8	2019.5	2030.0	2045.3	2066.1
14°	2030.5	2013.2	2003.7	2014.2	2031.5	2051.3
14.5°	2015.2	1997.9	1987.6	1998.9	2017.0	2036.0
15°	2000.4	1982.4	1972.3	1983.6	2001.7	2021.0
15.5°	1984.9	1966.3	1956.0	1968.1	1985.9	2005.2
16°	1969.8	1949.7	1940.0	1952.3	1970.1	1989.1
16.5°	1954.3	1933.7	1923.4	1935.9	1954.0	1972.3
17°	1938.5	1916.6	1907.1	1920.1	1937.5	1955.0
17.5°	1922.1	1899.1	1890.3	1903.1	1920.6	1937.5
18°	1905.8	1881.0	1872.7	1886.0	1903.1	1919.1
18.5°	1888.3	1863.4	1855.4	1868.7	1885.0	1900.3
19°	1870.7	1844.9	1837.1	1850.2	1866.7	1881.5
19.5°	1853.2	1826.1	1818.8	1832.1	1847.6	1862.4
20°	1835.6	1807.0	1799.7	1813.3	1827.6	1842.9
20.5°	1817.8	1786.9	1781.2	1794.0	1807.8	1823.1
21°	1798.7	1766.6	1762.1	1774.1	1787.4	1802.0

TEST NUMBER: P776177

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1737.8	1702.1	1700.9	1713.4	1724.5	1737.3
23°	1716.9	1679.8	1679.8	1691.6	1702.4	1713.9
23.5°	1694.6	1659.7	1657.2	1670.5	1680.3	1691.4
24°	1672.3	1639.4	1634.9	1647.4	1657.7	1669.3
24.5°	1649.0	1619.1	1614.1	1624.9	1633.9	1648.2
25°	1627.1	1598.8	1593.5	1601.3	1609.6	1627.4
25.5°	1605.8	1578.2	1574.4	1578.5	1587.0	1605.1
26°	1586.0	1556.9	1554.1	1553.6	1564.7	1582.0
26.5°	1566.7	1534.6	1534.1	1529.0	1543.8	1558.4
27°	1547.4	1511.2	1514.0	1503.7	1522.5	1533.6
27.5°	1527.0	1486.6	1492.7	1477.6	1500.2	1508.2
28°	1506.2	1461.1	1471.1	1451.0	1477.6	1481.4
28.5°	1484.1	1435.5	1448.3	1424.9	1454.3	1454.8
29°	1461.6	1409.4	1424.7	1398.1	1429.9	1426.7
29.5°	1437.7	1381.8	1400.6	1371.7	1404.6	1398.6
30°	1413.9	1354.4	1375.3	1345.2	1378.8	1369.5
30.5°	1388.8	1325.8	1349.4	1320.1	1352.4	1339.9
31°	1364.0	1296.5	1322.6	1295.0	1325.3	1307.8
31.5°	1337.4	1266.6	1295.7	1270.6	1297.7	1279.2
32°	1311.8	1236.8	1268.4	1246.1	1269.6	1247.3
32.5°	1284.9	1205.2	1241.0	1223.2	1241.3	1216.2
33°	1257.6	1173.8	1212.2	1200.4	1212.9	1182.8
33.5°	1230.3	1141.4	1182.3	1178.6	1184.3	1151.7
34°	1202.4	1108.3	1153.0	1156.8	1155.7	1117.6
34.5°	1173.1	1075.2	1121.4	1133.9	1125.6	1084.5
35°	1144.5	1042.4	1090.3	1110.8	1096.0	1050.1
35.5°	1115.4	1011.2	1058.9	1087.8	1066.4	1018.8
36°	1086.0	981.1	1027.6	1063.4	1036.3	986.7
36.5°	1055.7	950.3	995.7	1039.6	1006.5	955.8
37°	1025.5	911.2	965.3	1016.3	976.1	915.7
37.5°	995.7	865.2	935.2	992.7	946.0	870.8
38°	966.3	819.3	908.9	969.1	916.2	825.9
38.5°	938.7	773.7	868.0	945.3	884.1	781.2
39°	913.2	727.8	826.9	922.9	851.9	736.3
39.5°	885.3	681.9	785.7	897.1	819.6	691.4
40°	849.9	636.0	744.8	876.5	787.5	645.0
40.5°	809.3	590.5	703.9	855.7	755.1	598.8
41°	768.2	547.1	662.8	834.9	716.7	556.4
41.5°	727.3	505.0	620.6	814.1	678.6	514.0
42°	687.6	466.4	578.5	793.0	641.0	475.1
42.5°	647.5	429.5	536.9	771.7	601.6	437.3
43°	606.8	392.4	497.2	750.8	562.4	400.6
43.5°	565.5	355.5	459.6	729.5	523.8	362.8



TEST NUMBER: P776177

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	451.3	255.6	355.2	669.1	417.7	261.4
45.5°	416.2	226.0	321.6	645.2	384.6	230.5
46°	381.3	197.4	290.3	619.1	352.0	202.2
46.5°	347.5	170.1	259.4	586.3	318.4	174.1
47°	314.6	144.2	230.5	554.7	287.7	148.3
47.5°	282.5	121.4	201.7	524.3	257.1	124.2
48°	254.6	101.6	174.9	492.7	228.5	104.1
48.5°	226.8	84.8	149.8	458.8	200.2	86.5
49°	199.2	73.0	126.7	419.7	174.6	74.8
49.5°	171.3	61.5	106.1	380.8	148.8	63.5
50°	143.5	50.2	87.8	345.4	125.7	51.9
50.5°	120.7	38.9	76.3	311.1	104.6	40.6
51°	100.3	29.9	65.0	279.5	86.8	31.6
51.5°	82.8	21.1	53.4	248.9	75.5	22.8
52°	68.2	12.8	42.1	220.0	64.2	14.3
52.5°	55.9	7.5	30.6	192.9	52.9	8.8
53°	45.7	7.0	21.8	167.6	41.6	7.8
53.5°	37.9	6.8	13.5	143.5	30.6	7.3
54°	30.1	6.3	7.5	122.4	21.8	6.8
54.5°	22.1	6.0	7.0	103.1	13.8	6.3
55°	14.3	5.8	6.3	85.5	7.8	6.0
55.5°	6.5	5.5	5.8	72.8	7.0	5.8
56°	5.3	5.3	5.3	60.0	6.3	5.5
56.5°	5.3	5.3	5.0	47.2	5.5	5.5
57°	5.0	5.0	4.8	34.4	5.0	5.3
57.5°	4.8	4.8	4.8	26.1	4.8	5.0
58°	4.8	4.8	4.5	19.8	4.5	4.8
58.5°	4.5	4.5	4.5	14.6	4.5	4.8
59°	4.5	4.3	4.3	10.8	4.3	4.5
59.5°	4.3	4.3	4.3	9.5	4.3	4.5
60°	4.3	4.0	4.0	8.0	4.0	4.3
60.5°	4.0	4.0	4.0	6.5	4.0	4.0
61°	4.0	3.8	3.8	5.0	3.8	4.0
61.5°	3.8	3.8	3.8	3.8	3.8	3.8
62°	3.8	3.5	3.5	3.5	3.5	3.8
62.5°	3.5	3.5	3.5	3.5	3.5	3.5
63°	3.5	3.3	3.3	3.3	3.5	3.5
63.5°	3.3	3.0	3.3	3.3	3.3	3.3
64°	3.3	3.0	3.0	3.3	3.3	3.3
64.5°	3.0	2.8	3.0	3.0	3.0	3.0
65°	3.0	2.8	3.0	3.0	3.0	3.0
65.5°	3.0	2.8	2.8	2.8	3.0	2.8
66°	2.8	2.5	2.8	2.8	2.8	2.8



TEST NUMBER: P776177

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.5	2.3	2.5	2.5	2.5	2.5
68°	2.3	2.3	2.3	2.5	2.5	2.3
68.5°	2.3	2.0	2.3	2.3	2.3	2.3
69°	2.3	2.0	2.3	2.3	2.3	2.3
69.5°	2.0	2.0	2.0	2.3	2.3	2.0
70°	2.0	1.8	2.0	2.0	2.0	2.0
70.5°	2.0	1.8	2.0	2.0	2.0	2.0
71°	1.8	1.8	1.8	1.8	2.0	1.8
71.5°	1.8	1.8	1.8	1.8	1.8	1.8
72°	1.8	1.5	1.8	1.8	1.8	1.8
72.5°	1.8	1.5	1.5	1.5	1.8	1.8
73°	1.5	1.5	1.5	1.5	1.8	1.5
73.5°	1.5	1.5	1.5	1.5	1.5	1.5
74°	1.5	1.3	1.5	1.3	1.5	1.5
74.5°	1.3	1.3	1.3	1.3	1.5	1.5
75°	1.3	1.3	1.3	1.3	1.3	1.3
75.5°	1.3	1.3	1.3	1.3	1.3	1.3
76°	1.3	1.0	1.3	1.0	1.3	1.3
76.5°	1.3	1.0	1.0	1.0	1.3	1.3
77°	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0
78°	1.0	1.0	1.0	0.8	1.0	1.0
78.5°	1.0	1.0	1.0	0.8	1.0	1.0
79°	0.8	0.8	0.8	0.8	1.0	1.0
79.5°	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8
80.5°	0.8	0.8	0.8	0.5	0.8	0.8
81°	0.8	0.8	0.8	0.5	0.8	0.8
81.5°	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5
83°	0.5	0.5	0.5	0.3	0.5	0.5
83.5°	0.5	0.5	0.5	0.3	0.3	0.5
84°	0.3	0.5	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	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.3	0.3	0.3	0.0	0.0	0.3
87°	0.0	0.3	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: P776177  
CATALOG NUMBER: HCDJBL1525CSD-HCD8TRC-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



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Scaled Data Report





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

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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





21.5°	1781.2	1801.7	1832.3	1853.4	1884.5	1892.8	1907.6	1889.5	1872.0	1849.4	1817.3
22°	1759.8	1781.7	1812.8	1833.8	1867.2	1875.5	1889.0	1872.0	1854.7	1831.1	1797.5



44°	327.1	462.6	786.0	624.2	472.6	627.7	876.3	652.8	445.3	559.7	788.7
44.5°	293.0	426.0	763.9	585.3	435.0	586.8	853.2	613.9	407.4	520.8	767.2



66.5°	2.5	3.0	3.3	3.8	4.0	4.0	3.5	3.8	3.5	3.5	3.0
67°	2.5	2.8	3.3	3.5	3.8	3.8	3.5	3.5	3.5	3.3	3.0



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°	1779.2	1746.0	1741.5	1754.8	1767.1	1781.2
22°	1758.6	1724.0	1721.0	1734.2	1746.0	1759.8



44°	525.3	321.1	424.7	708.5	486.2	327.1
44.5°	487.7	287.0	389.6	687.4	451.3	293.0

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66.5°	2.8	2.5	2.5	2.8	2.8	2.5
67°	2.5	2.3	2.5	2.5	2.5	2.5

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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)