

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: P776077

Luminaire Tested: HCDJBL51525CSD-HCD6TRC-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776077
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-HCD6TRC-2500lm-3500K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

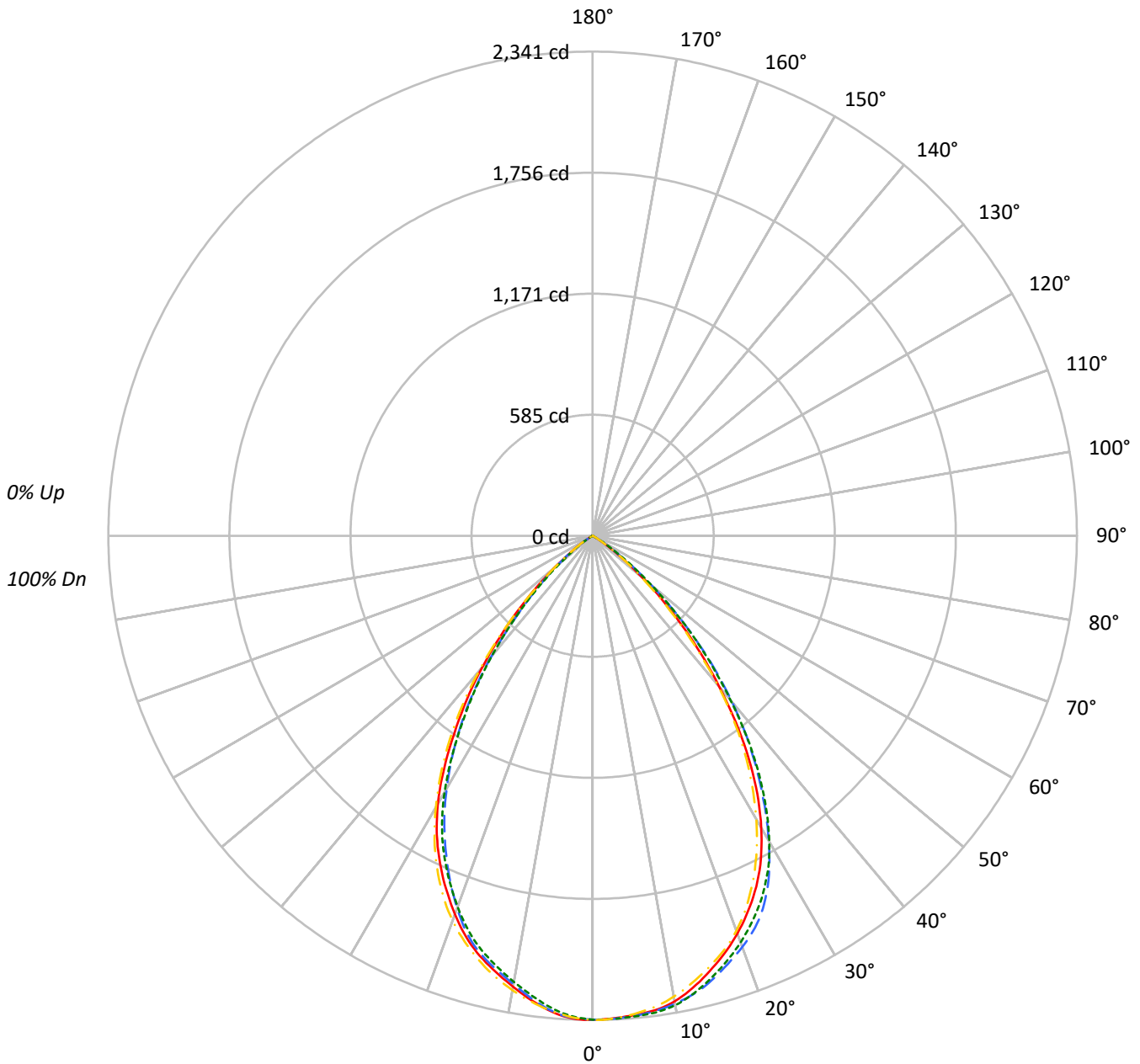
Lumens per Lamp: N/A
Luminaire Lumens: 2957.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70	70	70	70
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64	64	64	64
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59	59	59	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	128268	128268	128268	128268
5°	128010	128384	127030	126078
10°	127230	128288	123261	121919
15°	123775	125670	119376	117696
20°	119343	122038	113550	111321
25°	113196	116928	105635	102829
30°	103180	108055	94654	90634
35°	88144	93652	78093	73187
40°	68135	74225	59354	54309
45°	47090	53292	39345	34663
50°	26660	31905	20434	16921
55°	10026	13400	8124	6375
60°	713	2313	329	384
65°	104	130	104	65
70°	48	48	48	48
75°	0	64	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 55122 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	7.4
10°-20°	602.9	20.4
20°-30°	828.5	28.0
30°-40°	770.2	26.0
40°-50°	434.9	14.7
50°-60°	100.3	3.4
60°-70°	1.3	0.0
70°-80°	0.1	0.0
80°-90°	0.0	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°	1650.3	55.8
0°-40°	2420.5	81.9
0°-60°	2955.7	100.0
0°-90°	2957.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2340	2340	2340	2340	2340	
5°	2326	2333	2308	2291	2326	221
15°	2181	2214	2103	2074	2181	613
25°	1871	1933	1746	1700	1871	855
35°	1317	1399	1167	1094	1317	812
45°	607	687	508	447	607	470
55°	105	140	85	67	105	108
65°	1	1	1	0	1	1
75°	0	0	0	0	0	0
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°	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8
0.5°	2340.5	2339.3	2339.3	2340.3	2339.0	2340.3	2341.3	2341.8	2341.0	2339.3	2338.2
1°	2339.5	2339.3	2339.3	2340.3	2339.3	2340.5	2341.0	2341.3	2340.8	2339.3	2337.7
1.5°	2338.0	2338.0	2338.7	2340.3	2338.7	2340.5	2339.8	2340.3	2339.5	2338.0	2336.2
2°	2336.7	2337.2	2338.2	2340.3	2338.5	2340.3	2338.2	2338.2	2338.0	2336.7	2334.2
2.5°	2335.2	2336.5	2337.7	2339.5	2338.0	2339.0	2336.2	2335.7	2335.2	2334.2	2331.7
3°	2333.2	2335.2	2336.5	2338.5	2337.2	2337.7	2333.7	2332.5	2331.5	2331.2	2328.5
3.5°	2331.5	2334.0	2335.2	2337.7	2336.5	2336.2	2331.0	2328.5	2326.7	2326.7	2323.9
4°	2330.0	2332.7	2334.0	2336.5	2335.2	2334.7	2328.0	2323.7	2321.7	2321.2	2318.7
4.5°	2328.0	2331.0	2332.5	2335.2	2334.2	2333.2	2324.2	2318.4	2315.4	2314.9	2311.9
5°	2326.2	2329.5	2330.7	2333.5	2333.0	2331.5	2320.7	2312.7	2308.4	2307.9	2304.4
5.5°	2324.7	2327.5	2328.7	2331.7	2331.7	2329.7	2316.4	2306.1	2300.6	2299.6	2296.1
6°	2322.2	2325.2	2326.2	2330.0	2330.7	2327.7	2312.2	2299.6	2292.8	2291.3	2286.8
6.5°	2319.9	2322.4	2323.7	2327.7	2328.7	2326.0	2307.6	2292.3	2283.8	2281.8	2277.5
7°	2316.9	2319.7	2320.7	2325.5	2327.0	2323.4	2303.1	2285.1	2274.8	2272.5	2267.2
7.5°	2313.4	2316.2	2317.7	2322.7	2325.0	2321.2	2297.6	2277.5	2265.2	2262.5	2256.7
8°	2309.6	2312.2	2314.2	2319.9	2322.2	2318.4	2291.6	2269.0	2255.5	2252.2	2245.7
8.5°	2305.1	2307.6	2310.4	2316.2	2318.7	2314.7	2285.3	2260.7	2245.2	2241.4	2234.9
9°	2299.4	2302.6	2306.4	2312.9	2314.4	2310.6	2278.5	2252.2	2235.4	2231.4	2223.8
9.5°	2292.8	2296.6	2302.1	2308.6	2309.6	2305.6	2270.8	2243.9	2224.8	2220.8	2213.1
10°	2285.6	2290.6	2297.4	2304.1	2304.6	2299.6	2262.5	2234.9	2214.3	2209.8	2202.3
10.5°	2277.5	2283.6	2292.6	2298.9	2298.1	2292.8	2254.2	2225.3	2203.5	2199.0	2191.0
11°	2268.3	2275.8	2286.8	2293.3	2290.8	2285.1	2245.4	2215.8	2192.7	2188.0	2179.9
11.5°	2259.2	2267.2	2281.3	2287.6	2283.1	2276.3	2235.6	2206.8	2182.2	2176.9	2169.2
12°	2248.9	2258.7	2274.5	2281.3	2274.3	2266.7	2225.9	2197.0	2171.7	2165.6	2158.9
12.5°	2238.4	2249.4	2268.0	2274.3	2265.5	2256.5	2215.3	2186.7	2160.6	2153.6	2148.3
13°	2227.4	2239.9	2260.2	2267.2	2256.0	2246.2	2205.8	2176.2	2149.8	2141.8	2138.0
13.5°	2216.6	2229.6	2252.7	2260.0	2245.9	2235.4	2194.7	2165.4	2138.5	2129.0	2127.0
14°	2204.5	2219.3	2244.2	2252.2	2235.6	2223.8	2184.7	2154.1	2127.3	2116.0	2116.0
14.5°	2193.2	2209.3	2234.9	2243.9	2224.8	2212.1	2173.4	2141.8	2115.7	2102.2	2104.2
15°	2180.9	2198.3	2224.8	2235.6	2214.3	2200.0	2162.6	2129.5	2103.4	2088.6	2092.1
15.5°	2168.9	2187.2	2214.8	2226.1	2203.3	2188.2	2151.1	2117.0	2091.1	2074.1	2079.3
16°	2156.6	2176.2	2204.3	2216.6	2191.7	2176.4	2140.3	2102.9	2078.1	2059.3	2065.8
16.5°	2144.1	2164.9	2193.2	2206.3	2180.4	2164.4	2128.3	2088.9	2064.0	2044.5	2050.5
17°	2130.8	2153.3	2182.4	2196.2	2168.4	2152.1	2116.2	2075.1	2049.2	2028.4	2034.4
17.5°	2118.2	2141.8	2171.4	2185.2	2156.1	2139.8	2104.2	2060.0	2033.7	2011.3	2017.1
18°	2104.4	2130.3	2160.4	2174.7	2143.6	2127.0	2090.9	2045.2	2018.1	1995.3	1998.5
18.5°	2090.6	2118.7	2149.3	2163.6	2131.3	2114.5	2077.8	2029.2	2000.8	1978.0	1978.7
19°	2075.8	2106.7	2138.3	2152.3	2118.2	2101.9	2063.5	2013.6	1983.5	1960.7	1958.4
19.5°	2060.8	2094.1	2127.0	2140.5	2105.4	2088.4	2048.0	1997.5	1965.2	1942.1	1937.6
20°	2045.7	2081.3	2115.2	2127.8	2091.9	2074.8	2032.2	1980.5	1946.4	1924.3	1916.0
20.5°	2029.9	2067.8	2103.7	2115.0	2077.3	2059.8	2015.4	1962.7	1927.3	1905.5	1893.4
21°	2014.4	2053.7	2091.4	2101.7	2063.0	2044.5	1998.0	1945.4	1908.2	1886.2	1870.8



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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°	1963.9	2007.6	2051.0	2057.5	2017.9	1995.3	1941.3	1890.4	1849.3	1827.9	1802.9
23°	1946.9	1990.5	2035.4	2040.7	2001.3	1977.2	1921.3	1871.1	1829.7	1808.4	1778.8
23.5°	1928.6	1973.0	2019.6	2023.9	1985.3	1959.4	1900.2	1852.0	1810.1	1786.6	1754.2
24°	1910.0	1954.6	2001.6	2005.6	1968.4	1940.3	1879.1	1833.0	1789.1	1764.7	1729.6
24.5°	1890.7	1936.1	1982.7	1986.0	1950.9	1921.0	1858.1	1813.9	1767.7	1742.6	1704.8
25°	1871.4	1916.5	1962.9	1966.4	1933.1	1901.5	1836.7	1793.1	1746.4	1719.8	1680.2
25.5°	1851.0	1895.4	1941.8	1945.6	1914.5	1880.6	1815.7	1771.7	1724.1	1696.7	1655.1
26°	1829.5	1874.1	1919.3	1923.8	1893.9	1859.8	1790.1	1749.4	1701.5	1673.9	1630.0
26.5°	1807.6	1852.5	1896.2	1901.2	1873.4	1839.0	1765.7	1726.3	1678.4	1649.6	1604.9
27°	1785.0	1829.5	1871.6	1877.6	1852.8	1818.4	1741.9	1703.3	1654.3	1625.2	1579.3
27.5°	1761.5	1804.6	1846.3	1853.5	1832.2	1796.6	1716.1	1678.9	1630.3	1599.9	1552.5
28°	1736.1	1779.5	1818.7	1827.9	1811.4	1772.0	1691.0	1653.6	1605.7	1573.3	1525.6
28.5°	1711.5	1753.2	1791.3	1801.9	1786.8	1748.7	1664.4	1627.2	1579.3	1545.5	1497.3
29°	1684.9	1725.8	1762.2	1774.3	1761.2	1722.6	1637.8	1600.6	1552.2	1517.4	1469.7
29.5°	1657.6	1699.2	1733.4	1746.4	1734.4	1697.2	1609.9	1572.8	1523.6	1488.8	1440.1
30°	1630.0	1669.6	1703.0	1717.8	1707.0	1670.6	1582.6	1544.7	1495.3	1459.4	1410.5
30.5°	1601.9	1641.5	1673.2	1689.5	1678.9	1643.8	1554.0	1515.3	1465.2	1429.3	1380.6
31°	1572.5	1612.2	1641.8	1658.6	1650.6	1615.4	1524.9	1485.2	1434.6	1398.7	1351.3
31.5°	1541.9	1582.1	1610.4	1628.5	1621.0	1587.6	1495.5	1455.1	1403.2	1367.6	1321.2
32°	1512.3	1551.0	1578.6	1596.6	1590.9	1558.5	1466.4	1424.5	1370.6	1336.2	1291.3
32.5°	1481.7	1519.9	1547.0	1565.0	1560.5	1529.6	1436.1	1392.9	1337.5	1303.1	1260.7
33°	1450.6	1488.5	1513.8	1532.9	1529.4	1498.3	1406.0	1360.8	1304.1	1269.7	1230.6
33.5°	1418.0	1456.6	1483.0	1501.0	1498.3	1467.7	1375.4	1328.4	1270.2	1236.6	1200.5
34°	1386.1	1423.5	1450.1	1468.2	1465.2	1436.1	1345.0	1295.3	1235.9	1202.2	1169.6
34.5°	1352.0	1390.7	1418.0	1436.1	1432.6	1404.0	1313.6	1262.7	1200.7	1168.9	1138.0
35°	1317.1	1356.0	1385.4	1403.2	1399.4	1370.3	1282.8	1229.1	1166.9	1135.0	1105.6
35.5°	1282.0	1321.9	1353.0	1370.6	1365.8	1337.5	1251.4	1195.7	1133.0	1100.6	1073.3
36°	1247.1	1287.5	1320.7	1338.0	1331.7	1303.1	1218.8	1161.8	1099.6	1067.3	1040.2
36.5°	1210.8	1252.4	1287.0	1304.9	1295.8	1268.7	1184.9	1128.2	1066.0	1033.1	1006.3
37°	1174.1	1218.3	1254.9	1271.2	1259.9	1234.4	1151.6	1094.9	1032.6	999.5	971.4
37.5°	1136.5	1182.2	1222.3	1237.1	1223.6	1199.0	1116.9	1061.2	999.5	965.9	937.3
38°	1099.1	1146.5	1188.4	1203.0	1186.9	1162.6	1082.6	1026.9	966.7	931.3	902.4
38.5°	1061.5	1110.7	1154.1	1167.6	1149.6	1126.2	1047.4	993.0	933.5	897.7	868.3
39°	1023.6	1074.8	1119.4	1133.5	1112.4	1089.8	1011.3	958.9	898.9	863.5	833.4
39.5°	988.0	1038.9	1085.1	1098.1	1074.5	1052.7	975.9	924.8	864.3	829.7	797.6
40°	952.1	1001.5	1049.5	1063.5	1037.2	1014.8	940.1	890.1	829.4	795.1	763.4
40.5°	917.0	964.9	1014.3	1027.6	1001.0	977.9	903.7	856.0	794.6	761.4	728.1
41°	882.1	928.5	978.5	991.7	964.4	940.8	866.3	821.9	760.2	728.1	693.4
41.5°	847.2	887.9	943.1	955.4	929.0	903.9	829.2	787.5	725.8	694.4	659.1
42°	812.6	855.3	908.5	919.5	893.4	867.8	792.3	752.9	693.4	661.8	625.7
42.5°	777.7	822.7	872.8	883.6	859.8	831.7	756.7	719.0	662.6	629.5	594.6
43°	742.9	790.0	837.2	848.2	825.4	796.8	720.3	682.9	631.2	597.4	562.7
43.5°	708.2	757.4	801.6	825.9	790.3	761.7	684.7	648.8	600.6	566.2	533.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	607.4	656.3	695.5	711.0	687.4	657.3	584.6	548.9	507.5	477.2	446.8
45.5°	574.8	622.7	659.8	672.9	652.8	623.7	552.2	515.8	477.7	447.6	420.5
46°	543.9	589.6	624.2	639.0	619.7	590.3	519.8	484.2	448.1	419.7	394.1
46.5°	512.3	557.0	589.8	605.6	588.3	558.0	489.0	453.3	419.0	392.9	369.3
47°	480.9	525.6	556.0	572.0	555.7	526.4	457.9	422.5	390.4	366.5	345.0
47.5°	450.1	493.7	523.1	538.9	524.3	496.3	428.3	394.1	364.3	341.0	322.6
48°	421.2	462.6	490.5	506.3	494.0	466.4	399.7	364.8	336.9	316.4	300.1
48.5°	392.1	431.8	458.4	474.4	463.4	437.5	372.1	337.9	310.6	293.0	279.2
49°	365.0	402.7	427.8	443.6	432.5	409.7	345.0	311.6	284.8	270.7	258.7
49.5°	337.9	373.3	397.4	412.5	402.4	382.6	320.1	287.5	260.9	249.4	240.8
50°	312.6	344.5	369.1	383.4	374.1	356.0	295.0	263.9	239.6	230.6	223.0
50.5°	286.8	316.6	341.2	354.5	345.7	329.9	272.2	244.4	218.5	211.7	205.2
51°	263.2	289.5	313.9	326.7	319.1	305.1	250.4	225.0	197.4	193.2	187.4
51.5°	239.8	263.2	287.8	299.6	293.0	280.7	231.1	205.5	176.4	174.4	169.6
52°	217.0	238.8	262.7	273.5	267.9	257.4	211.7	185.9	159.3	157.6	153.8
52.5°	194.9	215.8	238.6	249.6	245.9	236.1	192.4	166.3	144.0	142.3	139.0
53°	174.6	194.2	215.8	225.8	224.0	214.8	173.1	150.3	130.5	128.0	124.7
53.5°	155.0	173.4	193.2	202.7	202.0	193.7	156.6	136.0	118.4	114.7	111.1
54°	136.5	154.5	172.9	181.4	180.1	172.4	140.5	122.2	106.4	101.9	97.6
54.5°	119.9	136.2	152.8	161.8	158.3	154.3	125.9	109.4	95.6	90.3	85.3
55°	104.9	119.7	134.7	143.3	140.2	137.2	111.4	97.3	85.0	79.0	73.3
55.5°	90.8	104.4	117.7	125.7	123.2	120.7	97.8	85.8	74.8	68.0	62.2
56°	79.5	89.6	101.4	109.1	107.6	105.9	85.3	74.8	65.0	58.0	51.7
56.5°	68.5	78.3	86.3	94.6	93.1	91.8	73.0	64.5	55.4	48.4	42.4
57°	57.2	67.0	75.0	83.0	79.5	78.8	61.7	54.4	46.4	39.9	34.9
57.5°	46.2	55.7	63.7	71.5	67.2	66.5	51.2	45.2	38.4	31.6	27.1
58°	34.9	44.4	52.4	60.2	55.7	55.2	42.1	37.1	30.1	23.3	19.3
58.5°	24.8	33.1	41.1	48.7	45.9	45.4	34.4	29.1	22.1	14.8	11.8
59°	15.3	23.3	31.1	37.4	37.6	37.1	26.6	21.1	14.0	6.5	4.0
59.5°	8.3	14.3	21.1	27.1	29.4	29.1	19.1	13.0	6.0	3.5	2.8
60°	6.5	7.5	12.5	17.3	21.1	20.8	11.3	5.0	3.0	2.5	2.3
60.5°	5.0	6.0	6.5	9.8	12.8	12.8	3.5	2.8	2.3	2.0	2.0
61°	3.3	4.8	5.3	7.8	4.8	4.5	2.3	2.0	2.0	1.8	1.8
61.5°	1.8	3.3	4.0	5.8	2.8	2.5	1.8	1.8	1.8	1.5	1.5
62°	1.5	2.0	3.0	4.0	2.0	2.0	1.5	1.5	1.5	1.5	1.3
62.5°	1.3	1.8	2.0	2.0	1.8	1.8	1.3	1.3	1.3	1.3	1.3
63°	1.3	1.5	1.8	1.8	1.5	1.5	1.3	1.3	1.0	1.0	1.0
63.5°	1.0	1.3	1.5	1.5	1.3	1.3	1.0	1.0	1.0	1.0	1.0
64°	0.8	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	0.8
64.5°	0.8	1.0	1.0	1.3	1.0	1.0	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8
65.5°	0.5	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.5
66°	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776077

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
69°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3
75.5°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	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	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: P776077
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-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: P776077

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2339.8	2339.8	2339.8	2339.8	2339.8	2339.8
0.5°	2338.2	2337.0	2337.7	2339.8	2340.5	2340.5
1°	2336.7	2335.2	2335.2	2338.2	2339.3	2339.5
1.5°	2334.7	2332.5	2332.2	2336.2	2337.2	2338.0
2°	2331.7	2329.0	2328.2	2333.2	2335.2	2336.7
2.5°	2328.2	2324.7	2323.7	2329.7	2332.7	2335.2
3°	2323.4	2319.7	2318.4	2325.7	2330.0	2333.2
3.5°	2318.2	2313.7	2312.7	2320.9	2327.0	2331.5
4°	2311.9	2306.9	2306.1	2316.4	2323.9	2330.0
4.5°	2304.6	2299.4	2299.1	2311.2	2320.7	2328.0
5°	2296.6	2291.1	2291.1	2305.6	2317.2	2326.2
5.5°	2287.3	2282.6	2283.1	2299.6	2313.7	2324.7
6°	2278.5	2273.3	2274.5	2293.3	2309.6	2322.2
6.5°	2268.5	2263.5	2265.7	2286.8	2304.9	2319.9
7°	2258.7	2253.4	2256.5	2280.0	2300.6	2316.9
7.5°	2248.4	2243.7	2247.2	2272.3	2295.1	2313.4
8°	2237.4	2232.9	2237.6	2265.0	2290.1	2309.6
8.5°	2226.6	2222.6	2227.9	2257.0	2283.3	2305.1
9°	2216.1	2211.8	2217.6	2248.7	2276.5	2299.4
9.5°	2205.3	2201.0	2207.0	2239.9	2269.0	2292.8
10°	2194.2	2190.2	2197.2	2231.4	2261.0	2285.6
10.5°	2182.9	2179.4	2187.2	2221.8	2252.4	2277.5
11°	2172.4	2168.6	2176.9	2212.8	2243.2	2268.3
11.5°	2160.6	2157.6	2166.1	2203.3	2233.6	2259.2
12°	2149.6	2146.1	2155.4	2193.0	2223.8	2248.9
12.5°	2137.8	2135.0	2144.6	2182.4	2213.6	2238.4
13°	2126.0	2123.2	2133.5	2171.7	2203.8	2227.4
13.5°	2113.0	2111.4	2121.7	2160.4	2193.2	2216.6
14°	2100.4	2098.9	2109.9	2148.8	2182.7	2204.5
14.5°	2087.1	2086.9	2097.6	2136.3	2172.4	2193.2
15°	2073.8	2073.8	2084.9	2124.0	2161.6	2180.9
15.5°	2059.5	2060.3	2072.1	2110.7	2150.1	2168.9
16°	2045.0	2046.2	2058.3	2098.2	2138.8	2156.6
16.5°	2029.7	2031.7	2043.7	2084.9	2127.0	2144.1
17°	2014.1	2016.1	2028.7	2071.1	2115.0	2130.8
17.5°	1996.8	1999.6	2012.6	2057.0	2102.2	2118.2
18°	1980.2	1982.5	1996.0	2042.7	2088.4	2104.4
18.5°	1961.9	1964.7	1978.7	2028.2	2073.6	2090.6
19°	1943.4	1946.6	1960.9	2012.6	2058.0	2075.8
19.5°	1924.3	1927.5	1942.9	1996.8	2042.0	2060.8
20°	1904.7	1908.2	1924.3	1980.5	2024.9	2045.7
20.5°	1884.1	1888.7	1905.0	1962.9	2007.6	2029.9
21°	1863.1	1868.8	1885.4	1945.6	1989.0	2014.4



TEST NUMBER: P776077

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1800.6	1807.4	1825.9	1886.7	1929.1	1963.9
23°	1778.5	1787.1	1806.1	1866.1	1907.2	1946.9
23.5°	1754.9	1766.0	1785.0	1845.0	1885.1	1928.6
24°	1731.6	1744.7	1764.2	1822.7	1863.6	1910.0
24.5°	1707.8	1722.1	1741.9	1801.1	1841.0	1890.7
25°	1684.2	1700.0	1720.3	1777.8	1817.7	1871.4
25.5°	1659.4	1677.2	1697.0	1754.4	1793.8	1851.0
26°	1634.0	1653.3	1674.4	1730.4	1770.0	1829.5
26.5°	1608.2	1628.7	1650.3	1706.5	1745.7	1807.6
27°	1581.8	1603.4	1625.0	1681.2	1721.1	1785.0
27.5°	1554.5	1577.1	1598.6	1655.1	1696.2	1761.5
28°	1526.9	1550.0	1571.5	1627.7	1669.4	1736.1
28.5°	1498.3	1521.4	1543.9	1600.6	1643.3	1711.5
29°	1469.4	1492.8	1515.1	1572.3	1615.9	1684.9
29.5°	1439.6	1462.4	1484.7	1544.9	1588.6	1657.6
30°	1409.5	1431.8	1454.6	1515.1	1559.8	1630.0
30.5°	1379.4	1399.7	1423.5	1486.2	1531.7	1601.9
31°	1348.5	1367.8	1391.4	1455.9	1502.5	1572.5
31.5°	1317.1	1334.5	1357.3	1425.8	1473.2	1541.9
32°	1285.8	1300.6	1323.9	1396.4	1442.6	1512.3
32.5°	1254.4	1266.0	1290.6	1365.1	1412.7	1481.7
33°	1221.6	1232.3	1256.4	1334.5	1381.4	1450.6
33.5°	1189.4	1197.7	1221.8	1302.3	1351.3	1418.0
34°	1155.8	1163.6	1188.2	1270.5	1320.2	1386.1
34.5°	1123.5	1127.7	1153.6	1238.1	1288.3	1352.0
35°	1090.8	1093.6	1119.7	1204.5	1254.9	1317.1
35.5°	1057.5	1059.5	1086.3	1171.6	1222.3	1282.0
36°	1024.4	1026.1	1052.2	1138.0	1188.2	1247.1
36.5°	989.7	993.5	1019.3	1104.4	1154.1	1210.8
37°	955.4	959.6	986.0	1069.0	1118.4	1174.1
37.5°	921.0	926.5	952.4	1033.9	1082.8	1136.5
38°	886.4	890.1	918.5	998.8	1046.9	1099.1
38.5°	852.0	857.3	884.4	962.4	1010.6	1061.5
39°	816.9	824.4	850.0	927.8	973.7	1023.6
39.5°	782.8	791.5	815.6	888.9	936.8	988.0
40°	749.1	758.9	781.3	854.8	897.7	952.1
40.5°	715.8	725.3	746.9	820.4	861.0	917.0
41°	682.9	691.9	712.5	786.3	824.4	882.1
41.5°	650.0	660.1	678.4	751.9	788.0	847.2
42°	617.2	628.5	645.8	716.8	751.4	812.6
42.5°	585.6	597.4	613.9	682.2	715.0	777.7
43°	553.7	566.2	581.6	647.3	680.4	742.9
43.5°	522.8	536.6	549.9	612.4	645.8	708.2



TEST NUMBER: P776077

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	435.5	447.1	456.6	510.0	547.2	607.4
45.5°	408.7	418.5	426.0	478.2	516.3	574.8
46°	381.8	389.9	396.6	447.3	486.5	543.9
46.5°	357.3	363.3	368.0	417.2	457.6	512.3
47°	332.9	336.7	340.7	389.1	429.0	480.9
47.5°	310.1	310.6	313.9	361.8	400.2	450.1
48°	287.5	285.5	288.0	334.7	373.3	421.2
48.5°	265.9	262.7	263.9	309.8	346.7	392.1
49°	245.9	239.8	240.8	285.8	321.4	365.0
49.5°	227.8	219.3	219.8	263.9	296.3	337.9
50°	210.0	198.4	199.0	242.4	273.0	312.6
50.5°	191.9	180.4	180.4	221.3	249.4	286.8
51°	173.9	162.8	163.1	201.5	227.8	263.2
51.5°	157.8	147.8	147.5	184.1	207.0	239.8
52°	142.5	133.5	133.7	166.8	187.9	217.0
52.5°	128.2	120.7	120.7	150.5	169.3	194.9
53°	114.4	108.1	108.4	135.0	152.0	174.6
53.5°	101.4	97.1	97.1	120.9	135.5	155.0
54°	89.1	86.6	86.1	107.4	120.4	136.5
54.5°	77.8	76.8	76.3	94.6	105.4	119.9
55°	66.5	66.7	66.2	83.5	92.1	104.9
55.5°	56.2	57.0	56.4	72.8	80.8	90.8
56°	46.4	47.2	46.4	62.0	69.7	79.5
56.5°	38.1	38.4	37.6	51.2	58.5	68.5
57°	30.1	28.9	28.1	40.4	47.4	57.2
57.5°	21.8	19.6	18.6	30.9	36.4	46.2
58°	13.8	11.5	10.5	20.6	26.1	34.9
58.5°	5.5	9.3	8.3	12.3	16.8	24.8
59°	3.0	7.3	6.0	6.3	9.5	15.3
59.5°	2.3	5.5	4.0	5.0	7.5	8.3
60°	2.0	3.5	1.8	3.8	5.5	6.5
60.5°	1.8	1.5	1.5	2.8	3.5	5.0
61°	1.5	1.3	1.3	1.5	1.8	3.3
61.5°	1.3	1.3	1.0	1.3	1.5	1.8
62°	1.0	1.0	1.0	1.3	1.3	1.5
62.5°	1.0	1.0	0.8	1.0	1.0	1.3
63°	1.0	0.8	0.8	1.0	1.0	1.3
63.5°	0.8	0.8	0.8	0.8	0.8	1.0
64°	0.8	0.8	0.8	0.8	0.8	0.8
64.5°	0.8	0.5	0.5	0.8	0.8	0.8
65°	0.5	0.5	0.5	0.5	0.5	0.8
65.5°	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776077

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.3	0.3	0.3	0.3	0.5
68°	0.3	0.3	0.3	0.3	0.3	0.5
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.0	0.3	0.3	0.3
73.5°	0.3	0.0	0.0	0.0	0.0	0.3
74°	0.3	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
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: P776077

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRC-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

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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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Scaled Data Report



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Scaled Data Report





21.5°	1997.8	2038.9	2078.6	2087.9	2048.2	2028.7	1980.2	1927.3	1888.7	1866.6	1848.0
22°	1981.0	2023.6	2065.0	2072.8	2033.2	2012.3	1961.4	1909.5	1868.8	1847.3	1825.4



44°	673.4	723.8	766.0	787.5	755.2	726.6	651.3	615.4	569.3	536.4	503.8
44.5°	639.8	689.4	730.3	749.1	722.3	692.2	618.7	582.1	539.2	506.3	475.4



66.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5



89°	0.0	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	0.0

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21.5°	1842.2	1848.5	1866.1	1926.8	1969.7	1997.8
22°	1821.4	1827.9	1846.3	1906.5	1949.9	1981.0



44°	492.2	505.8	518.1	577.5	612.2	673.4
44.5°	463.6	476.4	487.5	542.9	579.3	639.8

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66.5°	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.3	0.5	0.5	0.5

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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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(END OF REPORT)