

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: P776081

Luminaire Tested: HCDJBL51525CSD-HCD6TRH-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776081
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-HCD6TRH-2500lm-3000K
Description: 6 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

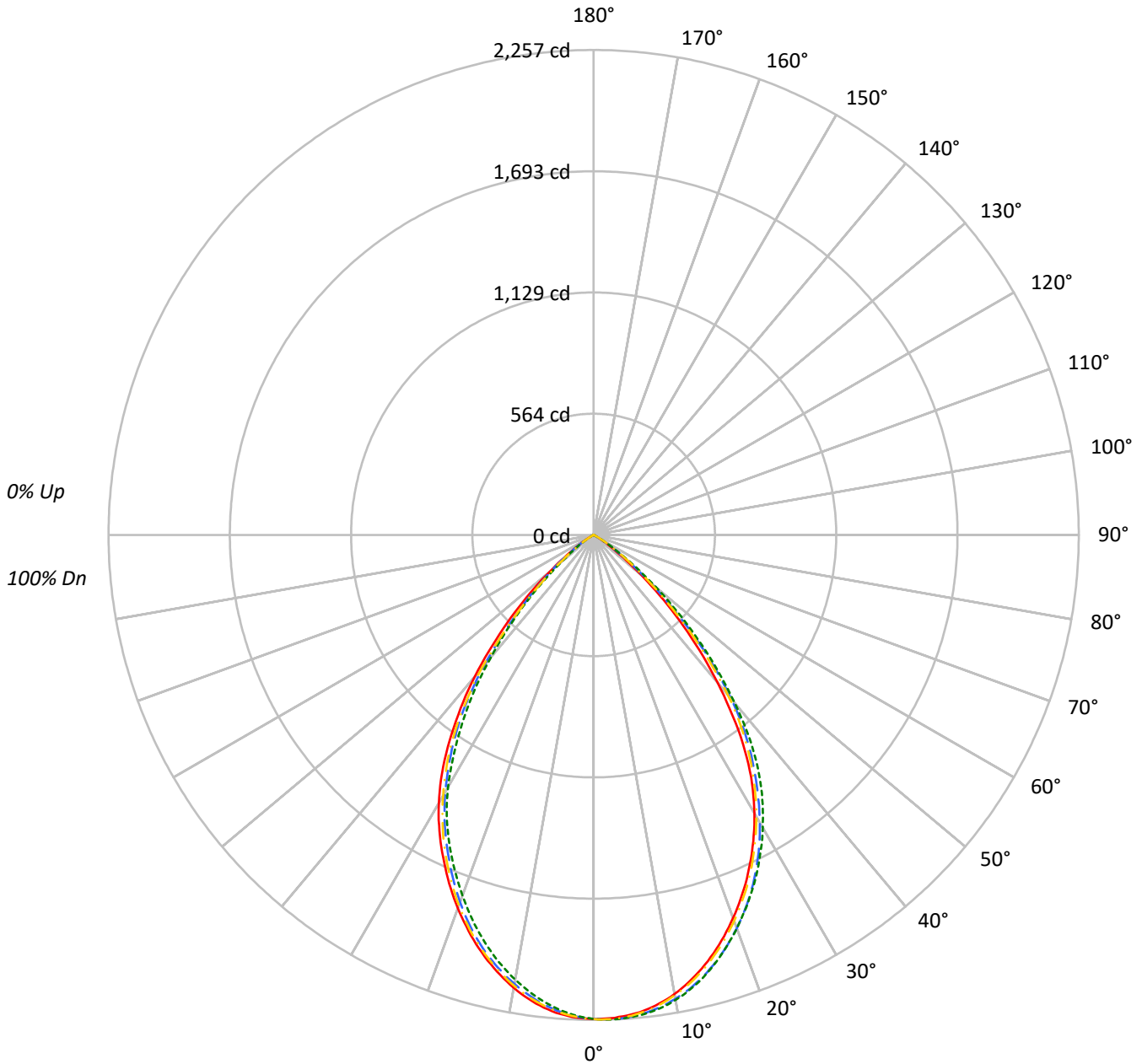
Lumens per Lamp: N/A
Luminaire Lumens: 2833.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					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	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	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	69	65	61	68	64	60	59					59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	123526	123526	123526	123526
5°	122975	123723	122419	121181
10°	120756	122348	119147	117015
15°	116516	118883	114172	111312
20°	110674	113643	107809	104134
25°	103518	107401	100203	96066
30°	94673	99598	91204	85779
35°	82208	89316	78126	71052
40°	64084	73008	61594	53371
45°	43943	52998	42252	34314
50°	24204	32033	23146	16852
55°	9252	14069	10007	7178
60°	1217	3596	2412	943
65°	156	285	221	156
70°	32	80	80	80
75°	42	42	42	42
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 52998 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	7.4
10°-20°	570.3	20.1
20°-30°	771.4	27.2
30°-40°	740.6	26.1
40°-50°	431.3	15.2
50°-60°	106.2	3.7
60°-70°	3.4	0.1
70°-80°	0.2	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°	1552.0	54.8
0°-40°	2292.6	80.9
0°-60°	2830.1	99.9
0°-90°	2833.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2253	2253	2253	2253	2253	
5°	2235	2248	2225	2202	2235	211
15°	2053	2095	2012	1961	2053	576
25°	1711	1776	1657	1588	1711	784
35°	1228	1335	1167	1062	1228	756
45°	567	684	545	443	567	438
55°	97	147	105	75	97	100
65°	1	2	2	1	1	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776081

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2253.3	2253.3	2253.3	2253.3	2253.3	2253.3	2253.3	2253.3	2253.3	2253.3	2253.3
0.5°	2252.8	2253.0	2254.7	2256.2	2254.0	2255.0	2255.5	2254.5	2252.3	2251.3	2251.5
1°	2252.3	2253.3	2255.7	2257.4	2255.5	2256.0	2256.0	2254.2	2251.3	2249.3	2249.5
1.5°	2251.5	2253.3	2256.0	2258.2	2256.2	2256.7	2255.7	2253.5	2250.3	2247.3	2246.8
2°	2250.3	2253.0	2256.0	2258.2	2256.7	2256.7	2255.5	2252.3	2247.8	2244.9	2243.6
2.5°	2250.3	2252.0	2255.2	2257.7	2256.2	2256.0	2254.2	2250.5	2245.8	2241.6	2239.7
3°	2246.6	2250.5	2254.5	2257.0	2255.7	2255.2	2252.5	2247.8	2242.4	2237.9	2235.2
3.5°	2244.4	2248.8	2253.0	2255.7	2254.5	2253.3	2250.3	2245.1	2238.9	2233.7	2231.0
4°	2241.6	2246.8	2251.0	2254.0	2252.8	2251.5	2247.8	2241.4	2235.0	2229.3	2225.1
4.5°	2238.2	2244.4	2248.6	2251.8	2250.8	2249.1	2244.4	2237.4	2230.5	2223.6	2219.4
5°	2234.7	2241.2	2245.8	2249.3	2248.3	2246.1	2240.7	2233.0	2224.6	2217.7	2213.0
5.5°	2231.5	2237.4	2242.9	2246.1	2245.6	2242.9	2236.2	2227.8	2218.4	2211.3	2205.8
6°	2225.8	2233.2	2239.2	2242.6	2242.4	2238.9	2231.3	2221.6	2212.0	2204.4	2198.4
6.5°	2220.9	2229.0	2235.0	2238.9	2238.4	2234.5	2226.6	2215.0	2204.8	2196.9	2190.0
7°	2215.2	2223.9	2230.0	2234.7	2234.2	2230.0	2220.4	2208.3	2197.4	2188.8	2182.1
7.5°	2208.8	2218.2	2224.9	2229.5	2229.3	2224.9	2214.2	2200.4	2188.8	2179.9	2172.7
8°	2201.9	2212.0	2219.4	2223.9	2224.1	2219.4	2207.6	2192.5	2180.2	2170.8	2163.6
8.5°	2194.7	2205.3	2213.2	2217.9	2218.4	2213.0	2200.2	2184.1	2171.0	2161.4	2153.5
9°	2186.8	2197.9	2206.8	2211.5	2212.0	2206.3	2192.7	2175.2	2161.1	2151.5	2143.8
9.5°	2178.2	2190.5	2199.4	2204.6	2205.3	2199.4	2184.1	2165.6	2151.5	2140.9	2133.0
10°	2169.3	2182.4	2192.3	2197.2	2197.9	2191.5	2175.5	2155.9	2140.4	2130.3	2121.9
10.5°	2159.7	2173.5	2184.1	2189.3	2189.8	2183.4	2166.3	2145.3	2129.5	2119.2	2110.5
11°	2149.8	2164.6	2176.2	2180.9	2181.4	2174.2	2156.7	2134.7	2117.9	2107.5	2098.9
11.5°	2139.4	2155.0	2166.8	2171.8	2172.2	2165.1	2146.8	2123.6	2105.6	2095.7	2086.8
12°	2127.8	2144.8	2157.9	2162.1	2162.6	2155.0	2135.9	2112.0	2093.5	2083.3	2074.2
12.5°	2116.4	2134.2	2147.6	2152.5	2152.5	2144.6	2124.8	2100.1	2080.9	2070.5	2061.6
13°	2104.8	2123.6	2137.7	2142.6	2142.6	2134.0	2114.0	2088.0	2068.0	2057.4	2048.5
13.5°	2092.2	2111.7	2126.8	2131.3	2130.8	2122.1	2101.6	2075.2	2054.2	2044.1	2034.9
14°	2079.9	2100.1	2115.4	2120.1	2119.2	2110.5	2089.5	2062.1	2040.6	2030.0	2020.9
14.5°	2066.6	2087.5	2103.6	2108.5	2106.6	2097.7	2076.9	2048.3	2026.5	2015.2	2006.5
15°	2053.0	2075.2	2091.2	2096.4	2094.7	2085.1	2063.3	2034.4	2011.7	2000.1	1991.7
15.5°	2038.9	2061.9	2078.7	2084.3	2081.4	2072.0	2049.5	2020.1	1996.7	1985.5	1976.4
16°	2024.6	2048.0	2065.6	2070.7	2068.3	2058.4	2035.9	2005.6	1981.6	1970.0	1960.4
16.5°	2009.8	2034.2	2051.7	2057.4	2054.4	2044.1	2021.4	1990.5	1966.0	1953.7	1944.1
17°	1994.7	2019.9	2038.2	2043.8	2039.9	2029.8	2006.8	1975.2	1949.7	1936.9	1927.5
17.5°	1978.9	2005.3	2023.8	2030.0	2025.6	2014.9	1991.5	1958.9	1933.7	1920.1	1910.0
18°	1963.3	1990.0	2009.3	2015.2	2010.2	1999.9	1976.4	1943.1	1916.4	1902.8	1892.2
18.5°	1947.3	1974.4	1993.9	2000.4	1994.9	1984.6	1960.4	1926.3	1899.6	1885.0	1874.7
19°	1930.7	1958.6	1979.1	1985.3	1979.6	1969.0	1944.1	1909.5	1882.6	1867.7	1855.6
19.5°	1913.9	1942.3	1963.1	1969.7	1964.1	1952.7	1927.5	1892.2	1865.8	1849.0	1836.6
20°	1897.1	1926.0	1947.5	1953.9	1948.0	1935.9	1911.2	1875.4	1848.0	1830.5	1817.6
20.5°	1879.6	1908.7	1931.2	1936.9	1931.0	1919.6	1893.9	1857.6	1830.0	1811.7	1798.6
21°	1862.1	1891.5	1914.7	1920.6	1914.4	1902.6	1876.1	1840.1	1812.2	1793.2	1779.6



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CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1808.0	1837.6	1862.6	1868.2	1865.0	1849.5	1822.3	1787.2	1755.9	1734.9	1717.6
23°	1789.5	1818.9	1844.3	1850.2	1847.5	1830.7	1804.5	1768.2	1735.9	1714.6	1696.9
23.5°	1770.7	1799.6	1825.8	1831.7	1830.0	1811.9	1786.5	1749.2	1716.4	1693.9	1675.4
24°	1751.2	1780.6	1806.3	1812.7	1812.4	1793.2	1767.2	1729.9	1696.4	1673.4	1654.1
24.5°	1731.4	1761.1	1787.0	1793.7	1794.9	1777.4	1747.2	1710.4	1677.1	1652.6	1632.4
25°	1711.4	1741.3	1767.2	1774.2	1775.6	1757.9	1727.0	1690.9	1656.6	1631.9	1611.4
25.5°	1691.4	1720.3	1747.2	1753.9	1756.4	1737.8	1706.7	1670.7	1636.3	1610.7	1589.7
26°	1671.4	1700.3	1726.5	1734.1	1737.4	1718.3	1686.2	1650.9	1616.1	1589.7	1568.2
26.5°	1650.2	1679.8	1705.3	1713.6	1718.1	1697.6	1665.0	1630.4	1595.6	1568.4	1546.2
27°	1629.4	1658.1	1684.3	1692.9	1698.6	1677.6	1644.3	1610.2	1574.1	1547.2	1524.5
27.5°	1607.7	1636.1	1662.3	1671.9	1678.1	1656.6	1623.3	1589.4	1553.6	1525.5	1502.0
28°	1586.2	1614.1	1639.6	1650.2	1657.6	1635.9	1602.0	1568.2	1532.1	1502.5	1478.8
28.5°	1564.2	1591.9	1616.8	1628.4	1637.3	1614.6	1580.5	1547.2	1510.6	1479.3	1454.8
29°	1541.8	1569.2	1593.6	1606.2	1616.6	1593.4	1558.3	1525.2	1488.2	1456.3	1430.9
29.5°	1518.8	1545.5	1569.7	1583.7	1594.9	1572.1	1536.1	1502.3	1464.7	1432.4	1405.4
30°	1495.6	1521.5	1545.7	1560.8	1573.4	1550.4	1513.4	1479.3	1440.8	1408.2	1380.3
30.5°	1471.9	1497.3	1521.5	1536.6	1551.4	1527.9	1490.4	1455.3	1417.0	1382.7	1354.6
31°	1447.7	1472.6	1495.8	1513.4	1529.9	1505.5	1466.7	1431.4	1391.6	1357.3	1328.4
31.5°	1422.7	1447.4	1471.4	1488.9	1506.7	1482.7	1442.7	1406.7	1365.7	1331.6	1302.0
32°	1396.8	1421.2	1445.4	1464.0	1483.7	1459.5	1418.8	1381.5	1339.0	1305.2	1274.8
32.5°	1371.4	1396.3	1419.8	1438.5	1460.5	1435.6	1394.1	1355.8	1312.1	1278.3	1248.1
33°	1344.7	1369.9	1394.3	1413.6	1436.8	1411.4	1369.1	1328.9	1284.4	1250.4	1221.5
33.5°	1317.3	1343.5	1369.4	1388.2	1411.9	1386.9	1343.9	1301.7	1256.0	1222.4	1194.5
34°	1288.4	1316.3	1343.0	1362.5	1387.4	1361.7	1318.3	1274.3	1227.4	1194.8	1167.1
34.5°	1259.0	1289.6	1316.5	1336.5	1360.7	1335.3	1292.8	1246.2	1197.0	1165.2	1139.0
35°	1228.4	1261.7	1289.6	1309.4	1334.6	1309.1	1266.7	1217.3	1167.4	1135.5	1111.1
35.5°	1197.7	1233.8	1263.9	1282.5	1306.9	1282.7	1240.5	1188.6	1138.0	1106.1	1082.4
36°	1164.9	1205.7	1235.8	1255.5	1279.2	1255.8	1213.6	1159.7	1108.4	1076.2	1052.8
36.5°	1132.1	1175.8	1209.4	1228.6	1249.6	1227.9	1185.6	1130.3	1078.2	1045.9	1022.2
37°	1098.2	1145.4	1181.2	1200.2	1219.5	1199.0	1157.0	1101.2	1047.1	1015.2	990.1
37.5°	1064.6	1113.8	1152.3	1171.1	1188.4	1169.3	1128.1	1071.1	1017.7	984.1	958.7
38°	1029.8	1081.4	1122.2	1139.7	1156.3	1138.2	1098.0	1041.2	986.8	952.3	925.6
38.5°	996.7	1049.1	1092.1	1110.3	1122.4	1106.9	1067.4	1011.0	956.2	920.2	892.8
39°	962.2	1015.5	1060.2	1078.2	1089.1	1074.5	1035.5	980.7	924.9	887.8	859.9
39.5°	928.8	981.9	1027.8	1046.1	1054.8	1040.9	1003.1	949.3	893.7	855.2	825.8
40°	895.5	946.3	994.0	1012.8	1020.2	1005.6	970.1	917.2	860.7	821.6	791.7
40.5°	862.4	911.8	961.4	978.7	986.1	970.3	937.0	885.1	828.3	788.5	756.9
41°	828.8	879.2	928.1	943.9	952.0	934.2	901.4	852.7	795.2	755.7	722.4
41.5°	795.7	845.3	894.0	909.3	919.2	898.7	866.6	820.9	762.1	724.3	688.3
42°	762.4	811.3	858.9	888.8	885.6	862.9	831.3	787.1	728.8	691.5	654.7
42.5°	729.0	777.4	823.9	851.3	853.2	827.3	796.4	753.7	697.9	659.6	622.3
43°	695.2	743.3	788.8	813.0	820.4	792.2	761.9	719.6	666.0	628.0	591.2
43.5°	662.1	710.5	754.0	775.0	785.6	757.9	727.3	686.5	636.2	596.9	560.6



TEST NUMBER: P776081

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	566.8	612.0	648.5	668.8	683.6	656.2	624.6	587.5	545.0	506.0	473.9
45.5°	536.6	579.1	613.9	635.9	650.0	622.1	591.0	556.6	515.2	477.1	446.7
46°	505.5	547.3	579.6	603.1	617.6	589.5	558.4	524.8	486.0	448.5	420.3
46.5°	474.9	515.6	545.5	570.5	586.3	557.4	525.5	493.9	456.4	422.1	394.9
47°	445.0	484.3	512.9	537.6	554.9	526.0	493.9	462.6	427.7	394.6	369.9
47.5°	415.9	453.4	481.6	505.8	523.8	495.4	463.0	432.9	400.1	369.5	346.5
48°	387.5	423.5	450.7	474.4	493.2	466.5	433.2	403.0	373.4	344.8	324.0
48.5°	360.3	394.6	420.3	444.0	463.0	438.6	404.5	374.6	347.2	321.8	302.8
49°	333.6	366.2	391.7	414.1	433.2	410.7	376.4	346.7	321.0	298.8	282.3
49.5°	308.0	338.6	363.5	385.3	403.5	383.8	350.4	320.3	295.9	277.1	262.0
50°	283.8	311.2	336.4	356.1	375.6	356.9	324.8	295.1	271.4	256.6	243.5
50.5°	259.8	284.5	309.7	328.5	348.2	331.4	300.5	271.2	248.4	238.6	226.5
51°	237.3	259.8	285.0	301.8	321.5	306.5	277.6	248.7	228.4	220.8	209.4
51.5°	215.1	236.3	260.8	276.6	296.6	282.8	255.6	229.7	208.7	202.8	192.6
52°	194.4	214.4	238.1	252.6	272.4	259.6	237.3	210.7	188.7	185.0	175.6
52.5°	174.6	193.1	215.8	229.2	248.9	239.8	218.8	191.4	168.9	167.2	159.8
53°	156.3	173.9	195.3	207.2	227.9	219.8	200.3	172.4	153.4	151.9	145.7
53.5°	139.0	156.1	175.3	186.7	207.0	200.0	181.8	156.3	139.3	138.0	131.9
54°	123.7	139.5	157.3	167.9	185.7	180.0	163.2	141.8	126.7	125.0	119.3
54.5°	109.6	124.0	139.5	150.2	165.0	160.3	148.2	128.4	115.3	112.4	106.4
55°	96.8	110.1	123.7	134.1	147.2	145.0	133.9	116.6	104.7	101.0	94.8
55.5°	84.5	96.6	108.7	119.0	131.1	129.2	120.3	104.7	94.3	89.6	83.5
56°	74.8	84.2	95.3	105.0	116.3	115.3	107.2	94.1	84.5	79.3	73.1
56.5°	65.0	74.3	83.7	91.6	102.7	102.0	94.8	84.0	75.1	69.4	63.2
57°	55.3	64.7	73.6	81.0	90.1	89.6	83.5	74.1	65.9	60.3	54.3
57.5°	45.7	54.8	63.2	70.6	78.0	77.8	72.6	64.7	57.5	51.9	45.9
58°	36.5	44.9	53.1	60.0	67.2	66.9	62.7	56.1	49.4	43.2	36.8
58.5°	27.7	35.3	43.0	49.6	57.3	57.0	53.6	47.7	40.7	36.8	31.4
59°	20.3	26.7	33.3	39.3	47.7	48.2	44.5	38.5	34.6	30.4	25.7
59.5°	14.8	19.5	24.4	29.4	40.3	41.5	37.5	32.6	28.4	23.7	20.3
60°	11.1	14.1	17.8	21.5	32.8	34.8	30.9	26.7	22.0	17.3	14.8
60.5°	8.1	10.6	12.8	15.3	25.4	28.2	24.0	20.7	15.8	10.9	9.1
61°	6.9	9.1	9.6	11.4	18.0	21.5	17.0	14.8	9.9	8.4	7.2
61.5°	5.7	7.7	8.1	8.4	10.6	14.8	10.4	8.9	7.4	6.7	5.7
62°	4.4	6.2	6.7	7.2	7.9	8.1	7.9	6.7	5.7	5.2	4.7
62.5°	3.2	4.7	5.2	5.9	6.2	6.2	5.9	5.4	4.4	4.2	3.7
63°	2.7	3.5	4.0	4.7	4.9	4.9	4.7	4.2	3.7	3.5	3.2
63.5°	2.2	2.7	3.2	3.5	4.0	4.0	3.7	3.5	3.0	3.0	2.7
64°	1.7	2.2	2.7	3.0	3.2	3.2	3.2	3.0	2.5	2.5	2.2
64.5°	1.5	2.0	2.2	2.5	2.7	2.7	2.5	2.5	2.0	2.0	2.0
65°	1.2	1.7	2.0	2.0	2.2	2.2	2.2	2.0	1.7	1.7	1.7
65.5°	1.2	1.5	1.5	1.7	2.0	1.7	1.7	1.7	1.5	1.5	1.5
66°	1.0	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2



TEST NUMBER: P776081

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7
68°	0.5	0.7	0.7	0.7	1.0	0.7	1.0	0.7	0.7	0.7	0.7
68.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
69°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
77°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776081
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-3000K

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: P776081

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2253.3	2253.3	2253.3	2253.3	2253.3	2253.3
0.5°	2252.5	2249.8	2251.3	2252.5	2253.3	2252.8
1°	2250.0	2246.8	2248.6	2250.5	2251.8	2252.3
1.5°	2246.8	2243.4	2245.6	2247.8	2250.5	2251.5
2°	2242.9	2239.2	2241.6	2244.9	2247.8	2250.3
2.5°	2238.7	2234.5	2237.0	2241.4	2245.3	2250.3
3°	2233.7	2229.0	2232.3	2237.0	2242.9	2246.6
3.5°	2228.3	2223.1	2226.6	2232.8	2239.4	2244.4
4°	2222.6	2216.9	2220.7	2227.8	2236.0	2241.6
4.5°	2216.2	2209.8	2214.2	2222.4	2231.5	2238.2
5°	2209.0	2202.1	2207.1	2216.2	2226.8	2234.7
5.5°	2201.4	2194.5	2199.4	2209.8	2221.4	2231.5
6°	2193.2	2186.1	2191.8	2203.1	2216.0	2225.8
6.5°	2184.6	2176.7	2183.1	2195.5	2209.8	2220.9
7°	2175.7	2167.8	2174.2	2187.6	2203.4	2215.2
7.5°	2166.1	2157.7	2164.8	2179.7	2196.2	2208.8
8°	2156.4	2147.1	2155.2	2170.8	2188.5	2201.9
8.5°	2146.1	2136.2	2144.8	2161.4	2179.9	2194.7
9°	2135.7	2125.3	2134.0	2151.8	2171.3	2186.8
9.5°	2124.1	2113.7	2123.1	2141.4	2161.9	2178.2
10°	2112.7	2102.1	2111.5	2131.0	2152.2	2169.3
10.5°	2100.6	2089.3	2099.9	2119.9	2142.1	2159.7
11°	2088.3	2076.4	2087.5	2108.0	2131.5	2149.8
11.5°	2075.7	2063.6	2074.7	2095.9	2120.4	2139.4
12°	2062.4	2049.8	2061.6	2083.6	2108.5	2127.8
12.5°	2049.0	2036.2	2048.3	2070.5	2096.4	2116.4
13°	2034.9	2021.9	2034.2	2057.4	2084.3	2104.8
13.5°	2020.6	2007.3	2019.6	2043.6	2071.2	2092.2
14°	2005.6	1992.5	2004.8	2030.0	2058.2	2079.9
14.5°	1990.2	1977.2	1989.7	2015.7	2044.3	2066.6
15°	1974.4	1961.3	1974.2	2000.9	2031.0	2053.0
15.5°	1959.1	1944.8	1958.1	1985.5	2015.9	2038.9
16°	1942.6	1928.7	1942.1	1970.5	2001.4	2024.6
16.5°	1926.0	1911.5	1925.3	1955.2	1986.5	2009.8
17°	1908.7	1894.7	1908.5	1939.1	1971.2	1994.7
17.5°	1892.0	1876.9	1891.2	1922.1	1954.7	1978.9
18°	1874.7	1858.9	1873.9	1905.3	1938.4	1963.3
18.5°	1856.6	1840.6	1856.4	1888.0	1921.8	1947.3
19°	1838.9	1822.8	1837.9	1870.2	1904.5	1930.7
19.5°	1820.8	1804.3	1820.1	1852.7	1887.3	1913.9
20°	1802.8	1785.0	1802.1	1834.2	1869.5	1897.1
20.5°	1785.0	1766.2	1783.5	1815.4	1851.0	1879.6
21°	1765.8	1747.2	1764.8	1796.6	1832.4	1862.1



TEST NUMBER: P776081

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1706.7	1689.4	1706.7	1737.1	1774.4	1808.0
23°	1686.5	1669.4	1686.5	1716.9	1754.4	1789.5
23.5°	1666.5	1649.7	1667.2	1696.6	1734.1	1770.7
24°	1645.7	1629.4	1646.5	1675.9	1713.4	1751.2
24.5°	1625.0	1609.2	1626.5	1654.6	1693.1	1731.4
25°	1604.2	1588.2	1605.5	1633.4	1672.4	1711.4
25.5°	1583.0	1567.4	1584.7	1612.1	1651.2	1691.4
26°	1562.3	1546.5	1562.8	1589.7	1630.2	1671.4
26.5°	1540.5	1524.7	1540.5	1568.2	1608.7	1650.2
27°	1518.3	1502.5	1518.1	1544.7	1587.0	1629.4
27.5°	1495.6	1480.3	1494.8	1521.8	1564.7	1607.7
28°	1472.4	1455.8	1470.4	1498.3	1542.0	1586.2
28.5°	1448.2	1431.6	1447.2	1474.6	1519.0	1564.2
29°	1424.0	1406.7	1422.2	1450.6	1495.8	1541.8
29.5°	1399.3	1381.5	1396.8	1425.7	1472.1	1518.8
30°	1373.6	1355.1	1370.9	1401.0	1448.4	1495.6
30.5°	1347.4	1326.9	1344.7	1375.6	1423.5	1471.9
31°	1320.7	1298.8	1317.0	1350.1	1398.5	1447.7
31.5°	1293.6	1270.1	1289.4	1324.9	1373.3	1422.7
32°	1266.2	1240.7	1260.5	1297.8	1347.9	1396.8
32.5°	1237.5	1211.6	1231.8	1271.8	1322.0	1371.4
33°	1208.4	1181.2	1202.4	1245.2	1294.8	1344.7
33.5°	1178.7	1151.3	1173.1	1218.2	1267.9	1317.3
34°	1148.9	1121.4	1143.9	1190.3	1240.0	1288.4
34.5°	1118.2	1091.3	1114.0	1161.0	1212.1	1259.0
35°	1088.1	1061.7	1083.7	1131.6	1182.4	1228.4
35.5°	1057.7	1031.8	1054.5	1101.4	1153.1	1197.7
36°	1026.6	1002.4	1024.9	1070.8	1121.2	1164.9
36.5°	995.7	972.5	995.0	1039.4	1088.8	1132.1
37°	964.4	942.1	964.6	1004.9	1055.5	1098.2
37.5°	932.8	911.0	933.8	972.5	1022.9	1064.6
38°	900.9	880.4	901.9	938.2	987.3	1029.8
38.5°	868.1	846.8	868.8	905.1	952.3	996.7
39°	836.2	813.2	835.7	886.1	916.0	962.2
39.5°	803.6	779.4	802.6	847.6	875.0	928.8
40°	770.8	745.8	769.3	808.8	840.9	895.5
40.5°	738.2	713.5	736.2	770.3	806.8	862.4
41°	705.8	682.3	701.6	731.7	773.0	828.8
41.5°	674.9	651.5	668.3	697.7	738.9	795.7
42°	642.3	621.6	635.7	663.3	704.6	762.4
42.5°	611.0	591.2	604.3	629.5	671.0	729.0
43°	580.1	561.3	573.2	595.9	636.7	695.2
43.5°	548.7	531.2	541.3	563.1	603.6	662.1



TEST NUMBER: P776081

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	461.6	442.6	449.7	468.0	510.0	566.8
45.5°	433.7	414.9	419.6	438.4	481.1	536.6
46°	406.5	387.7	390.9	410.0	452.4	505.5
46.5°	381.3	360.3	362.8	382.5	425.3	474.9
47°	355.1	334.4	336.1	355.9	397.6	445.0
47.5°	331.2	308.9	310.7	330.7	371.9	415.9
48°	308.2	284.5	286.0	306.5	345.7	387.5
48.5°	286.0	260.5	263.0	283.5	320.8	360.3
49°	265.0	238.6	241.0	261.8	296.1	333.6
49.5°	245.0	217.3	220.3	240.8	273.1	308.0
50°	227.2	197.6	201.5	221.3	250.2	283.8
50.5°	209.7	179.8	183.5	202.5	228.9	259.8
51°	191.9	163.7	167.4	185.2	208.9	237.3
51.5°	174.4	149.2	152.4	168.4	189.9	215.1
52°	159.3	136.1	138.8	153.4	172.1	194.4
52.5°	144.7	124.2	125.9	139.0	155.3	174.6
53°	130.9	112.9	114.6	125.2	139.3	156.3
53.5°	118.5	102.5	103.5	112.1	124.5	139.0
54°	106.7	92.6	93.1	100.3	110.9	123.7
54.5°	95.3	83.7	84.2	88.9	98.3	109.6
55°	85.0	75.1	75.3	79.5	85.7	96.8
55.5°	74.6	66.4	66.7	70.1	76.1	84.5
56°	65.2	57.8	57.8	60.8	66.4	74.8
56.5°	56.6	49.1	48.9	51.6	56.8	65.0
57°	48.4	40.3	40.0	42.2	47.2	55.3
57.5°	39.5	31.4	31.4	33.1	38.0	45.7
58°	33.6	24.0	23.7	25.2	29.1	36.5
58.5°	27.7	18.0	17.5	18.5	21.7	27.7
59°	21.7	13.3	13.1	13.8	16.1	20.3
59.5°	15.8	10.1	9.9	10.4	11.9	14.8
60°	9.9	8.6	8.4	8.9	8.9	11.1
60.5°	7.7	6.9	6.9	7.4	7.7	8.1
61°	6.2	5.4	5.2	6.2	6.2	6.9
61.5°	4.9	4.0	3.7	4.7	4.9	5.7
62°	4.0	3.2	3.2	3.2	3.7	4.4
62.5°	3.2	2.7	2.5	2.7	3.0	3.2
63°	2.7	2.2	2.2	2.2	2.5	2.7
63.5°	2.2	2.0	1.7	1.7	2.0	2.2
64°	2.0	1.7	1.5	1.5	1.7	1.7
64.5°	1.7	1.5	1.2	1.2	1.5	1.5
65°	1.5	1.2	1.0	1.2	1.2	1.2
65.5°	1.2	1.0	1.0	1.0	1.0	1.2
66°	1.0	1.0	0.7	0.7	1.0	1.0



TEST NUMBER: P776081

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.7	0.7	0.5	0.5	0.7	0.7
68°	0.7	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.2	0.2	0.2	0.2
70.5°	0.5	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.0	0.0	0.2
75.5°	0.2	0.0	0.0	0.0	0.0	0.0
76°	0.2	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: P776081

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-3000K

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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21.5°	1844.0	1873.7	1897.9	1903.6	1898.1	1885.3	1858.4	1822.6	1794.4	1774.6	1759.1
22°	1826.3	1855.9	1880.1	1886.0	1881.3	1868.2	1840.3	1804.8	1774.9	1754.9	1738.8



44°	629.3	677.4	718.9	736.4	751.2	724.1	692.2	652.5	604.6	565.5	531.0
44.5°	597.6	644.8	683.6	702.6	717.2	690.2	658.9	619.9	575.7	536.1	502.8



66.5°	0.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0
67°	0.7	1.0	1.0	1.0	1.2	1.2	1.2	1.0	1.0	1.0	1.0



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°	1746.0	1728.2	1745.5	1776.9	1813.2	1844.0
22°	1726.5	1708.7	1726.2	1757.4	1793.9	1826.3



44°	519.1	500.8	510.2	530.7	572.0	629.3
44.5°	490.5	471.2	480.1	499.1	540.8	597.6

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66.5°	1.0	0.7	0.7	0.7	0.7	0.7
67°	0.7	0.7	0.7	0.7	0.7	0.7

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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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Scaled Data Report



(END OF REPORT)