

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: P776075

Luminaire Tested: HCDJBL51525CSD-HCD6TRC-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776075
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-2700K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

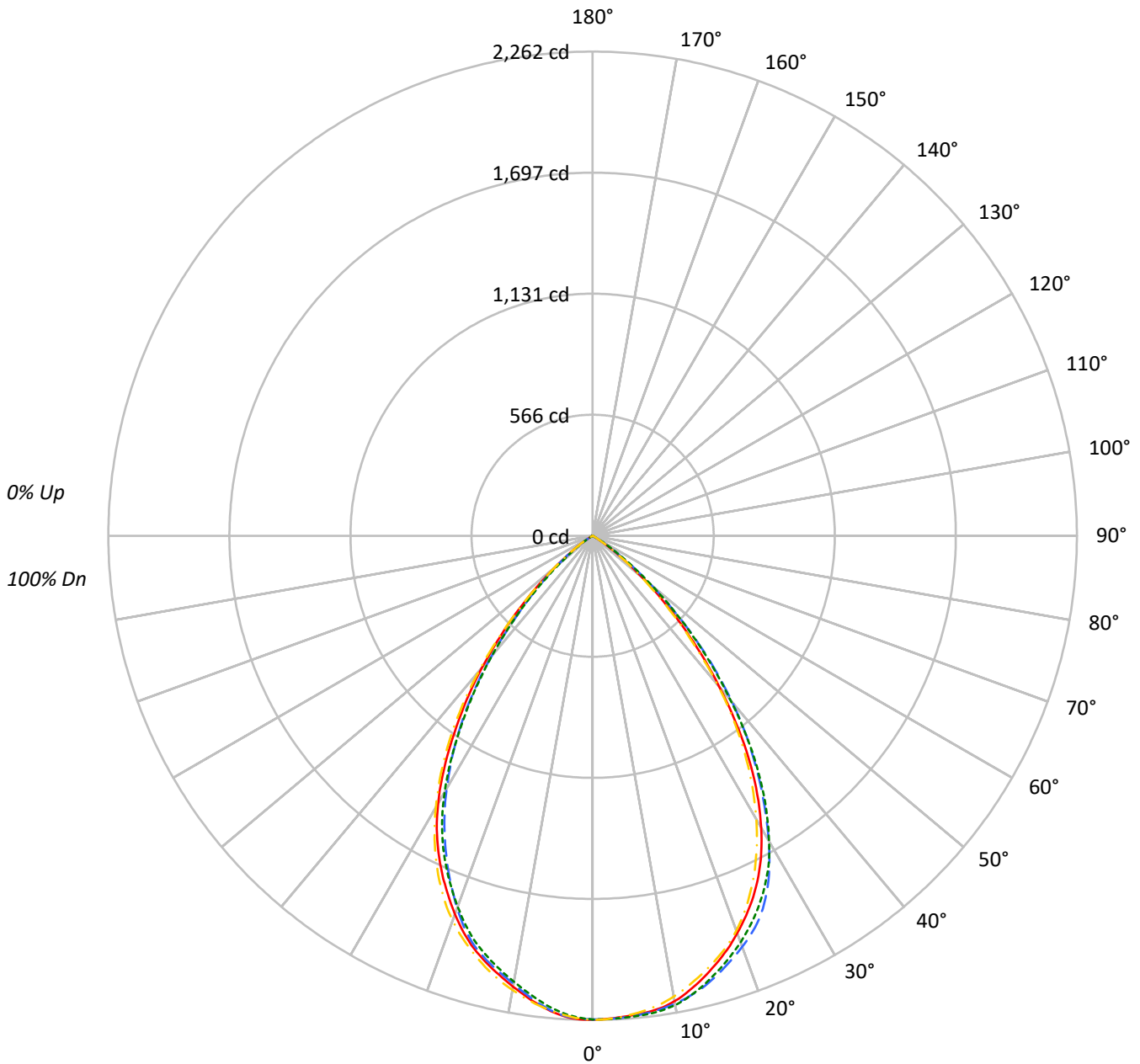
Lumens per Lamp: N/A
Luminaire Lumens: 2856.4 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (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	97	95	94	92					92			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70					70			
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59					59			
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54					54			
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50					50			
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	123899	123899	123899	123899
5°	123651	124015	122705	121786
10°	122899	123923	119064	117772
15°	119564	121391	115313	113690
20°	115283	117884	109682	107535
25°	109343	112948	102042	99326
30°	99667	104377	91432	87551
35°	85146	90467	75436	70698
40°	65816	71699	57336	52463
45°	45485	51478	38012	33484
50°	25756	30813	19735	16349
55°	9682	12951	7856	6165
60°	691	2237	318	373
65°	91	130	91	65
70°	32	32	32	32
75°	0	42	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 53246 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	7.4
10°-20°	582.4	20.4
20°-30°	800.3	28.0
30°-40°	744.0	26.0
40°-50°	420.1	14.7
50°-60°	96.9	3.4
60°-70°	1.2	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°	1594.1	55.8
0°-40°	2338.1	81.9
0°-60°	2855.1	100.0
0°-90°	2856.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2260	2260	2260	2260	2260	
5°	2247	2254	2230	2213	2247	213
15°	2107	2139	2032	2003	2107	592
25°	1808	1867	1687	1642	1808	826
35°	1272	1352	1127	1056	1272	785
45°	587	664	490	432	587	454
55°	101	136	82	64	101	105
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°	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1
0.5°	2260.8	2259.6	2259.6	2260.6	2259.4	2260.6	2261.6	2262.1	2261.3	2259.6	2258.7
1°	2259.9	2259.6	2259.6	2260.6	2259.6	2260.8	2261.3	2261.6	2261.1	2259.6	2258.2
1.5°	2258.4	2258.4	2259.2	2260.6	2259.2	2260.8	2260.1	2260.6	2259.9	2258.4	2256.7
2°	2257.2	2257.7	2258.7	2260.6	2258.9	2260.6	2258.7	2258.7	2258.4	2257.2	2254.8
2.5°	2255.8	2257.0	2258.2	2259.9	2258.4	2259.4	2256.7	2256.2	2255.8	2254.8	2252.4
3°	2253.8	2255.8	2257.0	2258.9	2257.7	2258.2	2254.3	2253.1	2252.1	2251.9	2249.2
3.5°	2252.1	2254.5	2255.8	2258.2	2257.0	2256.7	2251.6	2249.2	2247.5	2247.5	2244.9
4°	2250.7	2253.3	2254.5	2257.0	2255.8	2255.3	2248.7	2244.6	2242.7	2242.2	2239.8
4.5°	2248.7	2251.6	2253.1	2255.8	2254.8	2253.8	2245.1	2239.5	2236.6	2236.1	2233.2
5°	2247.0	2250.2	2251.4	2254.1	2253.6	2252.1	2241.7	2233.9	2229.8	2229.3	2226.0
5.5°	2245.6	2248.2	2249.5	2252.4	2252.4	2250.4	2237.6	2227.6	2222.3	2221.3	2218.0
6°	2243.2	2246.1	2247.0	2250.7	2251.4	2248.5	2233.5	2221.3	2214.8	2213.3	2209.0
6.5°	2241.0	2243.4	2244.6	2248.5	2249.5	2246.8	2229.1	2214.3	2206.1	2204.1	2200.0
7°	2238.1	2240.7	2241.7	2246.3	2247.8	2244.4	2224.7	2207.3	2197.4	2195.2	2190.1
7.5°	2234.7	2237.3	2238.8	2243.6	2245.8	2242.2	2219.4	2200.0	2188.1	2185.5	2179.9
8°	2231.0	2233.5	2235.4	2241.0	2243.2	2239.5	2213.6	2191.8	2178.7	2175.5	2169.2
8.5°	2226.7	2229.1	2231.8	2237.3	2239.8	2235.9	2207.5	2183.8	2168.8	2165.1	2158.8
9°	2221.1	2224.3	2227.9	2234.2	2235.6	2232.0	2201.0	2175.5	2159.3	2155.4	2148.2
9.5°	2214.8	2218.4	2223.8	2230.1	2231.0	2227.2	2193.5	2167.5	2149.1	2145.2	2137.7
10°	2207.8	2212.6	2219.2	2225.7	2226.2	2221.3	2185.5	2158.8	2138.9	2134.6	2127.3
10.5°	2200.0	2205.8	2214.6	2220.6	2219.9	2214.8	2177.5	2149.6	2128.5	2124.2	2116.4
11°	2191.1	2198.3	2209.0	2215.3	2212.9	2207.3	2169.0	2140.4	2118.1	2113.5	2105.7
11.5°	2182.3	2190.1	2203.7	2209.7	2205.4	2198.8	2159.5	2131.7	2107.9	2102.8	2095.3
12°	2172.4	2181.8	2197.1	2203.7	2196.9	2189.6	2150.1	2122.2	2097.7	2091.9	2085.4
12.5°	2162.2	2172.9	2190.8	2196.9	2188.4	2179.7	2139.9	2112.3	2087.1	2080.3	2075.2
13°	2151.6	2163.7	2183.3	2190.1	2179.2	2169.7	2130.7	2102.1	2076.7	2068.9	2065.3
13.5°	2141.1	2153.7	2176.0	2183.1	2169.5	2159.3	2120.0	2091.7	2065.8	2056.6	2054.6
14°	2129.5	2143.8	2167.8	2175.5	2159.5	2148.2	2110.4	2080.8	2054.9	2043.9	2043.9
14.5°	2118.6	2134.1	2158.8	2167.5	2149.1	2136.8	2099.4	2068.9	2043.7	2030.6	2032.6
15°	2106.7	2123.4	2149.1	2159.5	2138.9	2125.1	2089.0	2057.0	2031.8	2017.5	2020.9
15.5°	2095.1	2112.8	2139.4	2150.3	2128.3	2113.7	2077.9	2044.9	2020.0	2003.5	2008.6
16°	2083.2	2102.1	2129.3	2141.1	2117.1	2102.4	2067.5	2031.3	2007.4	1989.2	1995.5
16.5°	2071.1	2091.2	2118.6	2131.2	2106.2	2090.7	2055.8	2017.8	1993.8	1974.9	1980.7
17°	2058.2	2080.1	2108.2	2121.5	2094.6	2078.8	2044.2	2004.4	1979.5	1959.4	1965.2
17.5°	2046.1	2068.9	2097.5	2110.8	2082.7	2067.0	2032.6	1989.9	1964.5	1942.9	1948.5
18°	2032.8	2057.8	2086.8	2100.7	2070.6	2054.6	2019.7	1975.6	1949.4	1927.4	1930.5
18.5°	2019.5	2046.6	2076.2	2090.0	2058.7	2042.5	2007.1	1960.1	1932.7	1910.7	1911.4
19°	2005.2	2035.0	2065.5	2079.1	2046.1	2030.4	1993.3	1945.1	1916.0	1893.9	1891.8
19.5°	1990.6	2022.9	2054.6	2067.7	2033.8	2017.3	1978.3	1929.6	1898.3	1876.0	1871.6
20°	1976.1	2010.5	2043.2	2055.3	2020.7	2004.2	1963.0	1913.1	1880.1	1858.8	1850.8
20.5°	1960.8	1997.4	2032.1	2043.0	2006.6	1989.7	1946.8	1895.9	1861.7	1840.6	1829.0
21°	1945.8	1983.8	2020.2	2030.1	1992.8	1974.9	1930.0	1879.2	1843.3	1822.0	1807.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1897.1	1939.3	1981.2	1987.5	1949.2	1927.4	1875.3	1826.1	1786.3	1765.7	1741.5
23°	1880.6	1922.8	1966.2	1971.2	1933.2	1909.9	1855.9	1807.4	1767.4	1746.8	1718.2
23.5°	1862.9	1905.8	1950.9	1955.0	1917.7	1892.7	1835.5	1789.0	1748.5	1725.7	1694.5
24°	1845.0	1888.1	1933.4	1937.3	1901.4	1874.3	1815.2	1770.6	1728.2	1704.7	1670.7
24.5°	1826.3	1870.2	1915.3	1918.4	1884.5	1855.6	1794.8	1752.2	1707.6	1683.3	1646.7
25°	1807.7	1851.3	1896.1	1899.5	1867.3	1836.7	1774.2	1732.0	1687.0	1661.3	1623.0
25.5°	1788.0	1830.9	1875.8	1879.4	1849.3	1816.6	1753.9	1711.4	1665.4	1639.0	1598.8
26°	1767.2	1810.3	1853.9	1858.3	1829.5	1796.5	1729.1	1689.9	1643.6	1616.9	1574.5
26.5°	1746.1	1789.5	1831.7	1836.5	1809.6	1776.4	1705.6	1667.6	1621.3	1593.4	1550.3
27°	1724.3	1767.2	1807.9	1813.7	1789.7	1756.5	1682.6	1645.3	1598.0	1569.9	1525.6
27.5°	1701.5	1743.2	1783.4	1790.5	1769.9	1735.4	1657.6	1621.8	1574.8	1545.4	1499.6
28°	1677.0	1719.0	1756.8	1765.7	1749.7	1711.7	1633.4	1597.3	1551.0	1519.8	1473.7
28.5°	1653.3	1693.5	1730.4	1740.5	1726.0	1689.2	1607.7	1571.9	1525.6	1492.9	1446.3
29°	1627.6	1667.1	1702.2	1713.9	1701.3	1663.9	1582.0	1546.2	1499.4	1465.7	1419.7
29.5°	1601.2	1641.4	1674.4	1687.0	1675.3	1639.5	1555.1	1519.3	1471.8	1438.1	1391.1
30°	1574.5	1612.8	1645.0	1659.3	1648.9	1613.8	1528.7	1492.1	1444.4	1409.7	1362.5
30.5°	1547.4	1585.7	1616.2	1632.0	1621.8	1587.9	1501.1	1463.8	1415.3	1380.6	1333.6
31°	1519.0	1557.3	1585.9	1602.2	1594.4	1560.5	1473.0	1434.7	1385.7	1351.1	1305.3
31.5°	1489.5	1528.2	1555.6	1573.1	1565.8	1533.6	1444.6	1405.6	1355.4	1321.0	1276.2
32°	1460.9	1498.2	1524.8	1542.3	1536.7	1505.5	1416.5	1376.0	1323.9	1290.7	1247.4
32.5°	1431.3	1468.1	1494.3	1511.8	1507.4	1477.6	1387.2	1345.5	1291.9	1258.7	1217.8
33°	1401.2	1437.8	1462.3	1480.7	1477.3	1447.3	1358.1	1314.5	1259.7	1226.5	1188.7
33.5°	1369.7	1407.1	1432.5	1450.0	1447.3	1417.7	1328.5	1283.2	1227.0	1194.5	1159.6
34°	1339.0	1375.1	1400.8	1418.2	1415.3	1387.2	1299.2	1251.2	1193.8	1161.3	1129.8
34.5°	1306.0	1343.3	1369.7	1387.2	1383.8	1356.2	1268.9	1219.7	1159.9	1129.1	1099.3
35°	1272.3	1309.9	1338.2	1355.4	1351.8	1323.7	1239.1	1187.3	1127.2	1096.4	1068.0
35.5°	1238.4	1276.9	1307.0	1323.9	1319.3	1291.9	1208.8	1155.0	1094.4	1063.2	1036.8
36°	1204.7	1243.7	1275.7	1292.4	1286.4	1258.7	1177.3	1122.3	1062.2	1030.9	1004.8
36.5°	1169.6	1209.8	1243.2	1260.4	1251.7	1225.5	1144.6	1089.8	1029.7	998.0	972.1
37°	1134.2	1176.8	1212.2	1228.0	1217.1	1192.3	1112.4	1057.6	997.5	965.5	938.4
37.5°	1097.8	1141.9	1180.7	1195.0	1181.9	1158.2	1078.9	1025.1	965.5	933.0	905.4
38°	1061.7	1107.5	1148.0	1162.1	1146.5	1123.0	1045.7	991.9	933.8	899.6	871.7
38.5°	1025.4	1072.9	1114.8	1127.9	1110.4	1087.9	1011.8	959.2	901.8	867.1	838.8
39°	988.8	1038.2	1081.3	1094.9	1074.6	1052.8	976.9	926.2	868.3	834.2	805.1
39.5°	954.4	1003.6	1048.1	1060.7	1038.0	1016.9	942.7	893.3	834.9	801.4	770.4
40°	919.7	967.4	1013.7	1027.3	1001.9	980.3	908.1	859.8	801.2	768.0	737.5
40.5°	885.8	932.1	979.8	992.7	967.0	944.7	872.9	826.9	767.5	735.5	703.3
41°	852.1	896.9	945.2	958.0	931.6	908.8	836.8	793.9	734.3	703.3	669.8
41.5°	818.4	857.7	911.0	922.9	897.4	873.2	801.0	760.7	701.1	670.8	636.6
42°	785.0	826.2	877.5	888.2	863.0	838.3	765.3	727.3	669.8	639.3	604.4
42.5°	751.3	794.7	843.1	853.5	830.5	803.4	730.9	694.6	640.0	608.0	574.4
43°	717.6	763.1	808.7	819.4	797.3	769.7	695.8	659.7	609.7	577.0	543.6
43.5°	684.1	731.6	774.3	797.8	763.4	735.8	661.4	626.7	580.2	547.0	515.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	586.7	634.0	671.8	686.8	664.0	634.9	564.7	530.3	490.3	460.9	431.6
45.5°	555.2	601.5	637.4	650.0	630.6	602.5	533.4	498.3	461.4	432.3	406.2
46°	525.4	569.5	603.0	617.3	598.6	570.2	502.1	467.7	432.8	405.4	380.7
46.5°	494.9	538.0	569.8	585.0	568.3	539.0	472.3	437.9	404.7	379.5	356.7
47°	464.6	507.7	537.0	552.5	536.8	508.4	442.3	408.1	377.1	354.1	333.2
47.5°	434.8	476.9	505.3	520.6	506.5	479.4	413.7	380.7	351.9	329.3	311.7
48°	406.9	446.9	473.8	489.1	477.2	450.5	386.1	352.4	325.5	305.6	289.8
48.5°	378.8	417.1	442.8	458.3	447.6	422.7	359.4	326.4	300.0	283.1	269.7
49°	352.6	389.0	413.2	428.5	417.8	395.8	333.2	301.0	275.1	261.5	249.9
49.5°	326.4	360.6	383.9	398.4	388.7	369.6	309.2	277.7	252.0	240.9	232.7
50°	302.0	332.7	356.5	370.3	361.3	343.9	285.0	254.9	231.4	222.7	215.4
50.5°	277.0	305.8	329.6	342.4	334.0	318.7	262.9	236.0	211.1	204.5	198.2
51°	254.2	279.7	303.2	315.5	308.3	294.7	241.9	217.4	190.7	186.6	181.0
51.5°	231.7	254.2	278.0	289.4	283.1	271.2	223.2	198.5	170.4	168.4	163.8
52°	209.6	230.7	253.7	264.2	258.8	248.6	204.5	179.6	153.9	152.2	148.6
52.5°	188.3	208.4	230.5	241.1	237.5	228.0	185.9	160.7	139.1	137.4	134.3
53°	168.7	187.6	208.4	218.1	216.4	207.4	167.2	145.2	126.0	123.6	120.4
53.5°	149.8	167.5	186.6	195.8	195.1	187.1	151.2	131.4	114.4	110.8	107.4
54°	131.8	149.3	167.0	175.2	174.0	166.5	135.7	118.0	102.8	98.4	94.3
54.5°	115.8	131.6	147.6	156.3	152.9	149.0	121.7	105.7	92.3	87.2	82.4
55°	101.3	115.6	130.1	138.4	135.5	132.6	107.6	94.0	82.2	76.3	70.8
55.5°	87.7	100.8	113.7	121.4	119.0	116.6	94.5	82.9	72.2	65.7	60.1
56°	76.8	86.5	97.9	105.4	104.0	102.3	82.4	72.2	62.8	56.0	49.9
56.5°	66.2	75.6	83.4	91.4	89.9	88.7	70.5	62.3	53.6	46.8	41.0
57°	55.3	64.7	72.5	80.2	76.8	76.1	59.6	52.6	44.8	38.5	33.7
57.5°	44.6	53.8	61.6	69.1	64.9	64.2	49.4	43.6	37.1	30.5	26.2
58°	33.7	42.9	50.7	58.2	53.8	53.3	40.7	35.9	29.1	22.5	18.7
58.5°	24.0	32.0	39.7	47.0	44.3	43.9	33.2	28.1	21.3	14.3	11.4
59°	14.8	22.5	30.1	36.1	36.4	35.9	25.7	20.4	13.6	6.3	3.9
59.5°	8.0	13.8	20.4	26.2	28.4	28.1	18.4	12.6	5.8	3.4	2.7
60°	6.3	7.3	12.1	16.7	20.4	20.1	10.9	4.8	2.9	2.4	2.2
60.5°	4.8	5.8	6.3	9.5	12.4	12.4	3.4	2.7	2.2	1.9	1.9
61°	3.2	4.6	5.1	7.5	4.6	4.4	2.2	1.9	1.9	1.7	1.7
61.5°	1.7	3.2	3.9	5.6	2.7	2.4	1.7	1.7	1.7	1.5	1.5
62°	1.5	1.9	2.9	3.9	1.9	1.9	1.5	1.5	1.5	1.5	1.2
62.5°	1.2	1.7	1.9	1.9	1.7	1.7	1.2	1.2	1.2	1.2	1.2
63°	1.2	1.5	1.7	1.7	1.5	1.5	1.2	1.2	1.0	1.0	1.0
63.5°	1.0	1.2	1.5	1.5	1.2	1.2	1.0	1.0	1.0	1.0	1.0
64°	0.7	1.0	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	0.7
64.5°	0.7	1.0	1.0	1.2	1.0	1.0	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7
65.5°	0.5	0.7	0.7	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.5
66°	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776075

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRC-2500lm-2700K

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°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
69°	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	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	0.2	0.2	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°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2
75.5°	0.0	0.0	0.2	0.2	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: P776075
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-2700K

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: P776075

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1
0.5°	2258.7	2257.5	2258.2	2260.1	2260.8	2260.8
1°	2257.2	2255.8	2255.8	2258.7	2259.6	2259.9
1.5°	2255.3	2253.1	2252.9	2256.7	2257.7	2258.4
2°	2252.4	2249.7	2249.0	2253.8	2255.8	2257.2
2.5°	2249.0	2245.6	2244.6	2250.4	2253.3	2255.8
3°	2244.4	2240.7	2239.5	2246.5	2250.7	2253.8
3.5°	2239.3	2234.9	2233.9	2241.9	2247.8	2252.1
4°	2233.2	2228.4	2227.6	2237.6	2244.9	2250.7
4.5°	2226.2	2221.1	2220.9	2232.5	2241.7	2248.7
5°	2218.4	2213.1	2213.1	2227.2	2238.3	2247.0
5.5°	2209.5	2204.9	2205.4	2221.3	2234.9	2245.6
6°	2201.0	2195.9	2197.1	2215.3	2231.0	2243.2
6.5°	2191.3	2186.4	2188.6	2209.0	2226.4	2241.0
7°	2181.8	2176.8	2179.7	2202.4	2222.3	2238.1
7.5°	2171.9	2167.3	2170.7	2194.9	2217.0	2234.7
8°	2161.2	2156.9	2161.5	2187.9	2212.1	2231.0
8.5°	2150.8	2146.9	2152.0	2180.1	2205.6	2226.7
9°	2140.6	2136.5	2142.1	2172.1	2199.1	2221.1
9.5°	2130.2	2126.1	2131.9	2163.7	2191.8	2214.8
10°	2119.6	2115.7	2122.5	2155.4	2184.0	2207.8
10.5°	2108.7	2105.3	2112.8	2146.2	2175.8	2200.0
11°	2098.5	2094.8	2102.8	2137.5	2166.8	2191.1
11.5°	2087.1	2084.2	2092.4	2128.3	2157.6	2182.3
12°	2076.4	2073.0	2082.0	2118.3	2148.2	2172.4
12.5°	2065.0	2062.4	2071.6	2108.2	2138.2	2162.2
13°	2053.6	2051.0	2060.9	2097.7	2128.8	2151.6
13.5°	2041.0	2039.6	2049.5	2086.8	2118.6	2141.1
14°	2028.9	2027.5	2038.1	2075.7	2108.4	2129.5
14.5°	2016.1	2015.8	2026.3	2063.6	2098.5	2118.6
15°	2003.2	2003.2	2013.9	2051.7	2088.1	2106.7
15.5°	1989.4	1990.1	2001.5	2038.9	2076.9	2095.1
16°	1975.4	1976.6	1988.2	2026.7	2066.0	2083.2
16.5°	1960.6	1962.5	1974.2	2013.9	2054.6	2071.1
17°	1945.6	1947.5	1959.6	2000.6	2043.0	2058.2
17.5°	1928.8	1931.5	1944.1	1987.0	2030.6	2046.1
18°	1912.8	1915.0	1928.1	1973.2	2017.3	2032.8
18.5°	1895.1	1897.8	1911.4	1959.1	2003.0	2019.5
19°	1877.2	1880.4	1894.2	1944.1	1988.0	2005.2
19.5°	1858.8	1861.9	1876.7	1928.8	1972.5	1990.6
20°	1839.9	1843.3	1858.8	1913.1	1956.0	1976.1
20.5°	1820.0	1824.4	1840.1	1896.1	1939.3	1960.8
21°	1799.7	1805.2	1821.2	1879.4	1921.3	1945.8

TEST NUMBER: P776075

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1739.3	1745.9	1763.8	1822.4	1863.4	1897.1
23°	1718.0	1726.2	1744.7	1802.6	1842.3	1880.6
23.5°	1695.2	1705.9	1724.3	1782.2	1821.0	1862.9
24°	1672.7	1685.3	1704.2	1760.6	1800.1	1845.0
24.5°	1649.7	1663.5	1682.6	1739.8	1778.3	1826.3
25°	1626.9	1642.1	1661.8	1717.3	1755.8	1807.7
25.5°	1602.9	1620.1	1639.2	1694.7	1732.8	1788.0
26°	1578.4	1597.1	1617.4	1671.5	1709.8	1767.2
26.5°	1553.4	1573.3	1594.2	1648.4	1686.2	1746.1
27°	1528.0	1548.8	1569.7	1624.0	1662.5	1724.3
27.5°	1501.6	1523.4	1544.2	1598.8	1638.5	1701.5
28°	1474.9	1497.2	1518.1	1572.3	1612.6	1677.0
28.5°	1447.3	1469.6	1491.4	1546.2	1587.4	1653.3
29°	1419.4	1442.0	1463.5	1518.8	1561.0	1627.6
29.5°	1390.6	1412.6	1434.2	1492.4	1534.5	1601.2
30°	1361.5	1383.1	1405.1	1463.5	1506.7	1574.5
30.5°	1332.4	1352.0	1375.1	1435.7	1479.5	1547.4
31°	1302.6	1321.3	1344.1	1406.3	1451.4	1519.0
31.5°	1272.3	1289.0	1311.1	1377.3	1423.1	1489.5
32°	1242.0	1256.3	1278.9	1348.9	1393.5	1460.9
32.5°	1211.7	1222.9	1246.6	1318.6	1364.7	1431.3
33°	1180.0	1190.4	1213.7	1289.0	1334.4	1401.2
33.5°	1149.0	1157.0	1180.2	1258.0	1305.3	1369.7
34°	1116.5	1124.0	1147.8	1227.2	1275.2	1339.0
34.5°	1085.2	1089.3	1114.3	1196.0	1244.4	1306.0
35°	1053.7	1056.4	1081.6	1163.5	1212.2	1272.3
35.5°	1021.5	1023.4	1049.4	1131.8	1180.7	1238.4
36°	989.5	991.2	1016.4	1099.3	1147.8	1204.7
36.5°	956.1	959.7	984.7	1066.8	1114.8	1169.6
37°	922.9	927.0	952.4	1032.6	1080.4	1134.2
37.5°	889.7	895.0	919.9	998.7	1046.0	1097.8
38°	856.2	859.8	887.2	964.8	1011.3	1061.7
38.5°	823.0	828.1	854.3	929.6	976.2	1025.4
39°	789.1	796.3	821.1	896.2	940.5	988.8
39.5°	756.1	764.6	787.9	858.6	904.9	954.4
40°	723.6	733.1	754.7	825.7	867.1	919.7
40.5°	691.4	700.6	721.5	792.5	831.7	885.8
41°	659.7	668.4	688.3	759.5	796.3	852.1
41.5°	627.9	637.6	655.3	726.3	761.2	818.4
42°	596.2	607.1	623.8	692.4	725.8	785.0
42.5°	565.6	577.0	593.0	658.9	690.7	751.3
43°	534.9	547.0	561.8	625.3	657.2	717.6
43.5°	505.0	518.4	531.2	591.6	623.8	684.1



TEST NUMBER: P776075

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	420.7	431.9	441.1	492.7	528.6	586.7
45.5°	394.8	404.2	411.5	461.9	498.7	555.2
46°	368.9	376.6	383.1	432.1	469.9	525.4
46.5°	345.1	350.9	355.5	403.0	442.0	494.9
47°	321.6	325.2	329.1	375.9	414.4	464.6
47.5°	299.5	300.0	303.2	349.5	386.5	434.8
48°	277.7	275.8	278.2	323.3	360.6	406.9
48.5°	256.9	253.7	254.9	299.3	334.9	378.8
49°	237.5	231.7	232.7	276.0	310.4	352.6
49.5°	220.1	211.8	212.3	254.9	286.2	326.4
50°	202.8	191.7	192.2	234.1	263.7	302.0
50.5°	185.4	174.2	174.2	213.7	240.9	277.0
51°	167.9	157.3	157.5	194.6	220.1	254.2
51.5°	152.4	142.7	142.5	177.9	199.9	231.7
52°	137.7	128.9	129.2	161.2	181.5	209.6
52.5°	123.8	116.6	116.6	145.4	163.6	188.3
53°	110.5	104.5	104.7	130.4	146.9	168.7
53.5°	97.9	93.8	93.8	116.8	130.9	149.8
54°	86.0	83.6	83.1	103.7	116.3	131.8
54.5°	75.1	74.2	73.7	91.4	101.8	115.8
55°	64.2	64.5	64.0	80.7	88.9	101.3
55.5°	54.3	55.0	54.5	70.3	78.0	87.7
56°	44.8	45.6	44.8	59.9	67.4	76.8
56.5°	36.8	37.1	36.4	49.4	56.5	66.2
57°	29.1	27.9	27.1	39.0	45.8	55.3
57.5°	21.1	18.9	17.9	29.8	35.1	44.6
58°	13.3	11.1	10.2	19.9	25.2	33.7
58.5°	5.3	9.0	8.0	11.9	16.2	24.0
59°	2.9	7.0	5.8	6.1	9.2	14.8
59.5°	2.2	5.3	3.9	4.8	7.3	8.0
60°	1.9	3.4	1.7	3.6	5.3	6.3
60.5°	1.7	1.5	1.5	2.7	3.4	4.8
61°	1.5	1.2	1.2	1.5	1.7	3.2
61.5°	1.2	1.2	1.0	1.2	1.5	1.7
62°	1.0	1.0	1.0	1.2	1.2	1.5
62.5°	1.0	1.0	0.7	1.0	1.0	1.2
63°	1.0	0.7	0.7	1.0	1.0	1.2
63.5°	0.7	0.7	0.7	0.7	0.7	1.0
64°	0.7	0.7	0.7	0.7	0.7	0.7
64.5°	0.7	0.5	0.5	0.7	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5	0.7
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: P776075
 CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.2	0.2	0.2	0.2	0.5
68°	0.2	0.2	0.2	0.2	0.2	0.5
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	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	0.0	0.2	0.2	0.2
73.5°	0.2	0.0	0.0	0.0	0.0	0.2
74°	0.2	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: P776075
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-2700K

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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Scaled Data Report





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

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21.5°	1929.8	1969.5	2007.8	2016.8	1978.5	1959.6	1912.8	1861.7	1824.4	1803.1	1785.1
22°	1913.6	1954.8	1994.8	2002.3	1964.0	1943.9	1894.7	1844.5	1805.2	1784.4	1763.3



44°	650.5	699.2	739.9	760.7	729.5	701.8	629.1	594.5	549.9	518.1	486.6
44.5°	618.0	666.0	705.5	723.6	697.7	668.6	597.6	562.2	520.8	489.1	459.2



66.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.7	0.7	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
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°	1779.5	1785.6	1802.6	1861.2	1902.7	1929.8
22°	1759.4	1765.7	1783.4	1841.6	1883.5	1913.6



44°	475.5	488.6	500.4	557.9	591.3	650.5
44.5°	447.9	460.2	470.9	524.4	559.6	618.0



66.5°	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.2	0.5	0.5	0.5

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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)