

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: P776082

Luminaire Tested: HCDJBS1525CSD-HCD6TRH-2500lm-3500K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776082  
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-3500K  
Description: 6 INCH ROUND MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

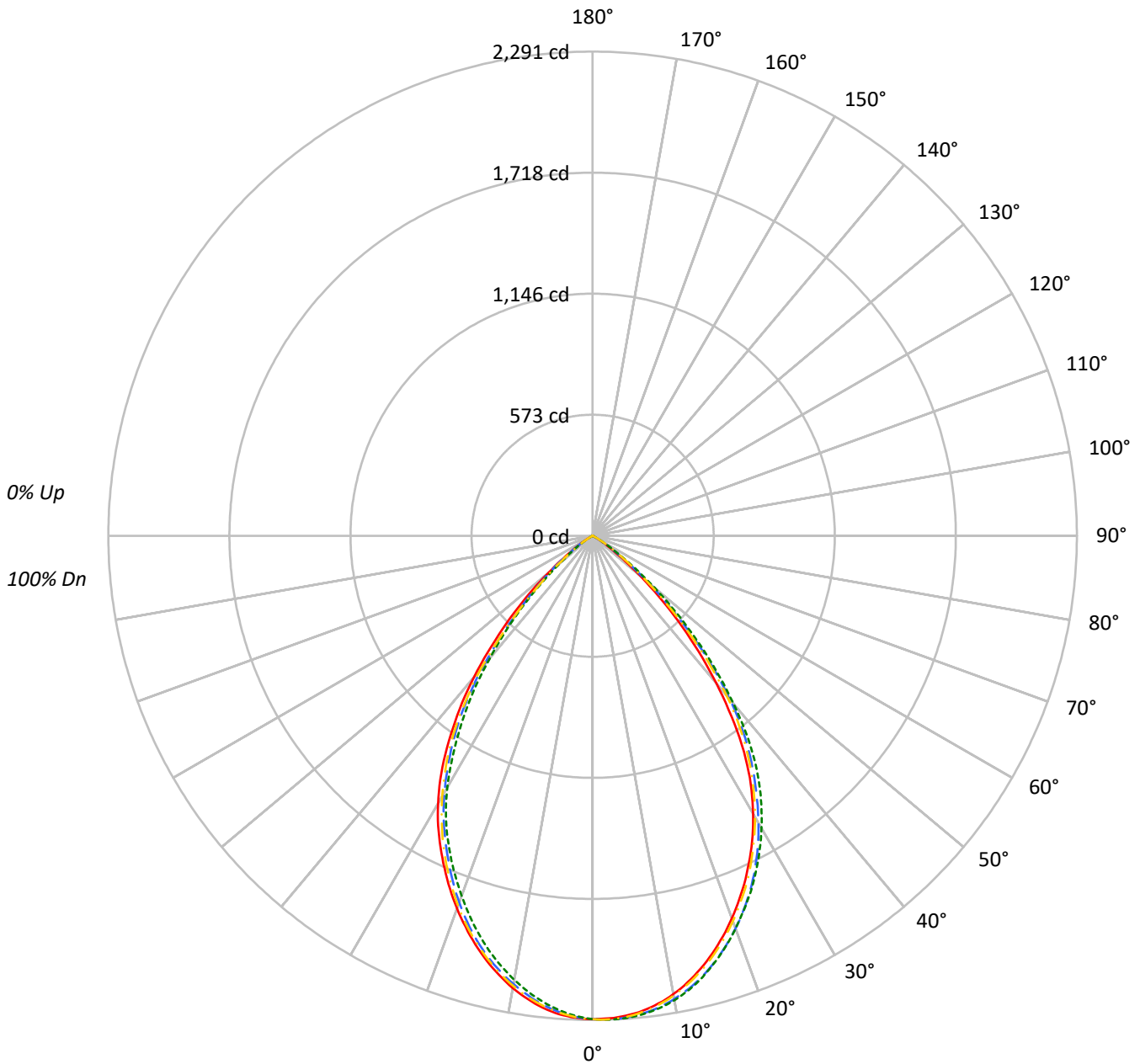
Lumens per Lamp: N/A  
Luminaire Lumens: 2876.9 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<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: P776082  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-3500K

### 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	64	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°	125407	125407	125407	125407
5°	124851	125611	124284	123030
10°	122598	124213	120962	118802
15°	118292	120693	115914	113009
20°	112366	115376	109455	105721
25°	105097	109041	101734	97530
30°	96116	101117	92590	87083
35°	83460	90674	79317	72136
40°	65058	74117	62531	54187
45°	44609	53804	42896	34833
50°	24571	32528	23496	17108
55°	9395	14279	10160	7283
60°	1239	3651	2445	965
65°	169	298	233	169
70°	48	80	80	80
75°	64	64	64	64
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 53804 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.6	7.4
10°-20°	579.0	20.1
20°-30°	783.2	27.2
30°-40°	751.9	26.1
40°-50°	437.9	15.2
50°-60°	107.8	3.7
60°-70°	3.5	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°	1575.7	54.8
0°-40°	2327.6	80.9
0°-60°	2873.3	99.9
0°-90°	2876.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2288	2288	2288	2288	2288	
5°	2269	2283	2258	2236	2269	214
15°	2084	2127	2042	1991	2084	585
25°	1738	1803	1682	1612	1738	796
35°	1247	1355	1185	1078	1247	767
45°	575	694	553	449	575	444
55°	98	149	106	76	98	101
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: P776082

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2287.6	2287.6	2287.6	2287.6	2287.6	2287.6	2287.6	2287.6	2287.6	2287.6	2287.6
0.5°	2287.1	2287.3	2289.1	2290.6	2288.4	2289.4	2289.9	2288.9	2286.6	2285.6	2285.8
1°	2286.6	2287.6	2290.1	2291.9	2289.9	2290.4	2290.4	2288.6	2285.6	2283.6	2283.8
1.5°	2285.8	2287.6	2290.4	2292.6	2290.6	2291.1	2290.1	2287.9	2284.6	2281.6	2281.1
2°	2284.6	2287.3	2290.4	2292.6	2291.1	2291.1	2289.9	2286.6	2282.1	2279.1	2277.8
2.5°	2284.6	2286.3	2289.6	2292.1	2290.6	2290.4	2288.6	2284.8	2280.1	2275.8	2273.8
3°	2280.8	2284.8	2288.9	2291.4	2290.1	2289.6	2286.8	2282.1	2276.6	2272.1	2269.3
3.5°	2278.6	2283.1	2287.3	2290.1	2288.9	2287.6	2284.6	2279.3	2273.1	2267.8	2265.0
4°	2275.8	2281.1	2285.3	2288.4	2287.1	2285.8	2282.1	2275.6	2269.0	2263.3	2259.0
4.5°	2272.3	2278.6	2282.8	2286.1	2285.1	2283.3	2278.6	2271.6	2264.5	2257.5	2253.3
5°	2268.8	2275.3	2280.1	2283.6	2282.6	2280.3	2274.8	2267.0	2258.5	2251.5	2246.7
5.5°	2265.5	2271.6	2277.1	2280.3	2279.8	2277.1	2270.3	2261.8	2252.2	2245.0	2239.5
6°	2259.8	2267.3	2273.3	2276.8	2276.6	2273.1	2265.3	2255.5	2245.7	2238.0	2231.9
6.5°	2254.8	2263.0	2269.0	2273.1	2272.6	2268.5	2260.5	2248.7	2238.5	2230.4	2223.4
7°	2249.0	2257.8	2264.0	2268.8	2268.3	2264.0	2254.3	2242.0	2230.9	2222.2	2215.4
7.5°	2242.5	2252.0	2258.8	2263.5	2263.3	2258.8	2248.0	2233.9	2222.2	2213.1	2205.9
8°	2235.4	2245.7	2253.3	2257.8	2258.0	2253.3	2241.2	2225.9	2213.4	2203.9	2196.6
8.5°	2228.2	2239.0	2247.0	2251.7	2252.2	2246.7	2233.7	2217.4	2204.1	2194.3	2186.3
9°	2220.2	2231.4	2240.5	2245.2	2245.7	2240.0	2226.2	2208.4	2194.1	2184.3	2176.5
9.5°	2211.4	2223.9	2232.9	2238.2	2239.0	2232.9	2217.4	2198.6	2184.3	2173.5	2165.5
10°	2202.4	2215.6	2225.7	2230.7	2231.4	2224.9	2208.6	2188.8	2173.0	2162.7	2154.2
10.5°	2192.6	2206.6	2217.4	2222.7	2223.2	2216.6	2199.3	2178.0	2162.0	2151.5	2142.7
11°	2182.5	2197.6	2209.4	2214.1	2214.6	2207.4	2189.6	2167.3	2150.2	2139.7	2130.9
11.5°	2172.0	2187.8	2199.8	2204.9	2205.4	2198.1	2179.5	2156.0	2137.7	2127.6	2118.6
12°	2160.2	2177.5	2190.8	2195.1	2195.6	2187.8	2168.5	2144.2	2125.4	2115.1	2105.8
12.5°	2148.7	2166.8	2180.3	2185.3	2185.3	2177.3	2157.2	2132.2	2112.6	2102.1	2093.0
13°	2136.9	2156.0	2170.3	2175.3	2175.3	2166.5	2146.2	2119.9	2099.6	2088.8	2079.8
13.5°	2124.1	2143.9	2159.2	2163.7	2163.2	2154.5	2133.7	2106.8	2085.5	2075.2	2066.0
14°	2111.6	2132.2	2147.7	2152.5	2151.5	2142.7	2121.4	2093.5	2071.7	2060.9	2051.7
14.5°	2098.1	2119.4	2135.7	2140.7	2138.7	2129.6	2108.6	2079.5	2057.4	2045.9	2037.1
15°	2084.3	2106.8	2123.1	2128.4	2126.6	2116.9	2094.8	2065.5	2042.4	2030.6	2022.1
15.5°	2070.0	2093.3	2110.3	2116.1	2113.1	2103.6	2080.8	2050.9	2027.1	2015.8	2006.5
16°	2055.4	2079.2	2097.1	2102.3	2099.8	2089.8	2067.0	2036.1	2011.8	2000.0	1990.2
16.5°	2040.4	2065.2	2083.0	2088.8	2085.8	2075.2	2052.2	2020.8	1996.0	1983.5	1973.7
17°	2025.1	2050.7	2069.2	2075.0	2071.0	2060.7	2037.4	2005.3	1979.5	1966.4	1956.9
17.5°	2009.0	2035.9	2054.7	2060.9	2056.4	2045.7	2021.8	1988.7	1963.2	1949.4	1939.1
18°	1993.3	2020.3	2039.9	2045.9	2040.9	2030.4	2006.5	1972.7	1945.6	1931.8	1921.0
18.5°	1977.0	2004.5	2024.3	2030.9	2025.3	2014.8	1990.2	1955.6	1928.6	1913.8	1903.2
19°	1960.2	1988.5	2009.3	2015.6	2009.8	1999.0	1973.7	1938.6	1911.3	1896.2	1883.9
19.5°	1943.1	1971.9	1993.0	1999.8	1994.0	1982.5	1956.9	1921.0	1894.2	1877.2	1864.6
20°	1926.1	1955.4	1977.2	1983.7	1977.7	1965.4	1940.3	1904.0	1876.2	1858.4	1845.3
20.5°	1908.3	1937.8	1960.7	1966.4	1960.4	1948.9	1922.8	1885.9	1857.9	1839.3	1826.0
21°	1890.5	1920.3	1943.9	1949.9	1943.6	1931.6	1904.7	1868.1	1839.8	1820.5	1806.7



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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°	1835.5	1865.6	1891.0	1896.7	1893.5	1877.7	1850.1	1814.5	1782.6	1761.3	1743.8
23°	1816.7	1846.6	1872.4	1878.4	1875.7	1858.6	1832.0	1795.2	1762.3	1740.8	1722.7
23.5°	1797.7	1827.0	1853.6	1859.6	1857.9	1839.6	1813.7	1775.9	1742.5	1719.7	1700.9
24°	1777.9	1807.7	1833.8	1840.3	1840.1	1820.5	1794.2	1756.3	1722.2	1698.9	1679.3
24.5°	1757.8	1787.9	1814.2	1821.0	1822.3	1804.5	1773.9	1736.5	1702.7	1677.8	1657.3
25°	1737.5	1767.9	1794.2	1801.2	1802.7	1784.6	1753.3	1716.7	1681.9	1656.8	1636.0
25.5°	1717.2	1746.5	1773.9	1780.6	1783.1	1764.3	1732.7	1696.1	1661.3	1635.2	1613.9
26°	1696.9	1726.2	1752.8	1760.6	1763.8	1744.5	1711.9	1676.1	1640.7	1613.9	1592.1
26.5°	1675.3	1705.4	1731.2	1739.8	1744.3	1723.5	1690.4	1655.3	1619.9	1592.3	1569.8
27°	1654.3	1683.4	1709.9	1718.7	1724.5	1703.2	1669.3	1634.7	1598.1	1570.8	1547.7
27.5°	1632.2	1661.0	1687.6	1697.4	1703.7	1681.9	1648.0	1613.7	1577.3	1548.7	1524.9
28°	1610.4	1638.7	1664.6	1675.3	1682.9	1660.8	1626.4	1592.1	1555.5	1525.4	1501.3
28.5°	1588.1	1616.2	1641.5	1653.3	1662.3	1639.2	1604.6	1570.8	1533.7	1501.8	1477.0
29°	1565.3	1593.1	1617.9	1630.7	1641.2	1617.7	1582.1	1548.5	1510.9	1478.5	1452.7
29.5°	1541.9	1569.0	1593.6	1607.9	1619.2	1596.1	1559.5	1525.2	1487.0	1454.2	1426.9
30°	1518.4	1544.7	1569.3	1584.6	1597.4	1574.0	1536.4	1501.8	1462.7	1429.6	1401.3
30.5°	1494.3	1520.1	1544.7	1560.0	1575.0	1551.2	1513.1	1477.5	1438.7	1403.8	1375.2
31°	1469.7	1495.1	1518.6	1536.4	1553.2	1528.4	1489.0	1453.2	1412.8	1378.0	1348.6
31.5°	1444.4	1469.5	1493.8	1511.6	1529.7	1505.3	1464.7	1428.1	1386.5	1351.9	1321.8
32°	1418.1	1442.9	1467.5	1486.3	1506.3	1481.8	1440.4	1402.5	1359.4	1325.1	1294.2
32.5°	1392.3	1417.6	1441.4	1460.5	1482.8	1457.5	1415.3	1376.5	1332.1	1297.7	1267.2
33°	1365.2	1390.8	1415.6	1435.1	1458.7	1432.9	1390.0	1349.1	1304.0	1269.4	1240.1
33.5°	1337.4	1363.9	1390.3	1409.3	1433.4	1408.1	1364.4	1321.6	1275.2	1241.1	1212.7
34°	1308.0	1336.4	1363.4	1383.2	1408.6	1382.5	1338.4	1293.7	1246.1	1213.0	1184.9
34.5°	1278.2	1309.3	1336.6	1356.9	1381.5	1355.7	1312.5	1265.2	1215.3	1182.9	1156.3
35°	1247.1	1280.9	1309.3	1329.3	1354.9	1329.1	1286.0	1235.8	1185.2	1152.8	1128.0
35.5°	1216.0	1252.6	1283.2	1302.0	1326.8	1302.3	1259.4	1206.7	1155.3	1123.0	1098.9
36°	1182.7	1224.0	1254.6	1274.7	1298.7	1274.9	1232.1	1177.4	1125.2	1092.7	1068.8
36.5°	1149.3	1193.7	1227.8	1247.3	1268.7	1246.6	1203.7	1147.6	1094.7	1061.8	1037.7
37°	1115.0	1162.9	1199.2	1218.5	1238.1	1217.3	1174.6	1118.0	1063.1	1030.7	1005.1
37.5°	1080.9	1130.8	1169.9	1188.9	1206.5	1187.2	1145.3	1087.4	1033.2	999.1	973.3
38°	1045.5	1097.9	1139.3	1157.1	1173.9	1155.6	1114.7	1057.0	1001.9	966.8	939.7
38.5°	1011.9	1065.1	1108.7	1127.3	1139.5	1123.7	1083.6	1026.5	970.8	934.2	906.4
39°	976.8	1031.0	1076.4	1094.7	1105.7	1090.9	1051.3	995.6	939.0	901.4	873.0
39.5°	943.0	996.9	1043.5	1062.1	1070.8	1056.8	1018.4	963.8	907.4	868.3	838.4
40°	909.1	960.8	1009.2	1028.2	1035.7	1020.9	984.8	931.2	873.8	834.2	803.8
40.5°	875.5	925.7	976.1	993.6	1001.1	985.1	951.2	898.6	840.9	800.6	768.5
41°	841.4	892.6	942.2	958.3	966.5	948.5	915.1	865.7	807.3	767.2	733.4
41.5°	807.8	858.2	907.6	923.2	933.2	912.4	879.8	833.4	773.7	735.4	698.8
42°	774.0	823.6	872.0	902.4	899.1	876.0	843.9	799.1	739.9	702.0	664.7
42.5°	740.1	789.3	836.4	864.2	866.2	839.9	808.6	765.2	708.5	669.7	631.8
43°	705.8	754.7	800.8	825.4	832.9	804.3	773.5	730.6	676.2	637.6	600.2
43.5°	672.2	721.3	765.5	786.8	797.6	769.5	738.4	697.0	645.9	606.0	569.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	575.4	621.3	658.4	679.0	694.0	666.2	634.1	596.5	553.3	513.7	481.1
45.5°	544.8	587.9	623.3	645.6	659.9	631.6	600.0	565.1	523.0	484.4	453.6
46°	513.2	555.6	588.4	612.3	627.1	598.5	566.9	532.8	493.4	455.3	426.7
46.5°	482.1	523.5	553.8	579.2	595.2	565.9	533.5	501.4	463.3	428.5	400.9
47°	451.8	491.7	520.8	545.8	563.4	534.0	501.4	469.6	434.3	400.7	375.6
47.5°	422.2	460.3	488.9	513.5	531.8	503.0	470.1	439.5	406.2	375.1	351.8
48°	393.4	430.0	457.6	481.6	500.7	473.6	439.8	409.2	379.1	350.0	328.9
48.5°	365.8	400.7	426.7	450.8	470.1	445.3	410.7	380.3	352.5	326.7	307.4
49°	338.7	371.8	397.6	420.5	439.8	417.0	382.1	352.0	325.9	303.4	286.6
49.5°	312.7	343.7	369.1	391.1	409.7	389.6	355.8	325.2	300.4	281.3	266.0
50°	288.1	315.9	341.5	361.5	381.4	362.3	329.7	299.6	275.5	260.5	247.2
50.5°	263.8	288.8	314.4	333.5	353.5	336.5	305.1	275.3	252.2	242.2	229.9
51°	240.9	263.8	289.3	306.4	326.4	311.1	281.8	252.5	231.9	224.1	212.6
51.5°	218.4	239.9	264.8	280.8	301.1	287.1	259.5	233.2	211.9	205.8	195.6
52°	197.3	217.6	241.7	256.5	276.5	263.5	240.9	213.9	191.6	187.8	178.3
52.5°	177.3	196.1	219.1	232.7	252.7	243.5	222.1	194.3	171.5	169.7	162.2
53°	158.7	176.5	198.3	210.4	231.4	223.1	203.3	175.0	155.7	154.2	147.9
53.5°	141.2	158.5	178.0	189.5	210.1	203.1	184.5	158.7	141.4	140.2	133.9
54°	125.6	141.7	159.7	170.5	188.5	182.8	165.7	143.9	128.6	126.9	121.1
54.5°	111.3	125.9	141.7	152.4	167.5	162.7	150.4	130.4	117.1	114.1	108.1
55°	98.3	111.8	125.6	136.1	149.4	147.2	135.9	118.3	106.3	102.5	96.3
55.5°	85.7	98.0	110.3	120.8	133.1	131.1	122.1	106.3	95.8	91.0	84.7
56°	76.0	85.5	96.8	106.6	118.1	117.1	108.8	95.5	85.7	80.5	74.2
56.5°	65.9	75.5	85.0	93.0	104.3	103.5	96.3	85.2	76.2	70.5	64.2
57°	56.2	65.7	74.7	82.2	91.5	91.0	84.7	75.2	66.9	61.2	55.2
57.5°	46.4	55.7	64.2	71.7	79.2	79.0	73.7	65.7	58.4	52.7	46.6
58°	37.1	45.6	53.9	60.9	68.2	67.9	63.7	56.9	50.1	43.9	37.4
58.5°	28.1	35.9	43.6	50.4	58.2	57.9	54.4	48.4	41.4	37.4	31.8
59°	20.6	27.1	33.8	39.9	48.4	48.9	45.1	39.1	35.1	30.8	26.1
59.5°	15.0	19.8	24.8	29.8	40.9	42.1	38.1	33.1	28.8	24.1	20.6
60°	11.3	14.3	18.1	21.8	33.3	35.4	31.3	27.1	22.3	17.6	15.0
60.5°	8.3	10.8	13.0	15.5	25.8	28.6	24.3	21.1	16.0	11.0	9.3
61°	7.0	9.3	9.8	11.5	18.3	21.8	17.3	15.0	10.0	8.5	7.3
61.5°	5.8	7.8	8.3	8.5	10.8	15.0	10.5	9.0	7.5	6.8	5.8
62°	4.5	6.3	6.8	7.3	8.0	8.3	8.0	6.8	5.8	5.3	4.8
62.5°	3.3	4.8	5.3	6.0	6.3	6.3	6.0	5.5	4.5	4.3	3.8
63°	2.8	3.5	4.0	4.8	5.0	5.0	4.8	4.3	3.8	3.5	3.3
63.5°	2.3	2.8	3.3	3.5	4.0	4.0	3.8	3.5	3.0	3.0	2.8
64°	1.8	2.3	2.8	3.0	3.3	3.3	3.3	3.0	2.5	2.5	2.3
64.5°	1.5	2.0	2.3	2.5	2.8	2.8	2.5	2.5	2.0	2.0	2.0
65°	1.3	1.8	2.0	2.0	2.3	2.3	2.3	2.0	1.8	1.8	1.8
65.5°	1.3	1.5	1.5	1.8	2.0	1.8	1.8	1.8	1.5	1.5	1.5
66°	1.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3





TEST NUMBER: P776082

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
68°	0.5	0.8	0.8	0.8	1.0	0.8	1.0	0.8	0.8	0.8	0.8
68.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3
77°	0.0	0.0	0.0	0.3	0.3	0.3	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: P776082  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-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: P776082

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2287.6	2287.6	2287.6	2287.6	2287.6	2287.6
0.5°	2286.8	2284.1	2285.6	2286.8	2287.6	2287.1
1°	2284.3	2281.1	2282.8	2284.8	2286.1	2286.6
1.5°	2281.1	2277.6	2279.8	2282.1	2284.8	2285.8
2°	2277.1	2273.3	2275.8	2279.1	2282.1	2284.6
2.5°	2272.8	2268.5	2271.1	2275.6	2279.6	2284.6
3°	2267.8	2263.0	2266.3	2271.1	2277.1	2280.8
3.5°	2262.3	2257.0	2260.5	2266.8	2273.6	2278.6
4°	2256.5	2250.7	2254.5	2261.8	2270.0	2275.8
4.5°	2250.0	2243.5	2248.0	2256.3	2265.5	2272.3
5°	2242.7	2235.7	2240.7	2250.0	2260.8	2268.8
5.5°	2234.9	2227.9	2232.9	2243.5	2255.3	2265.5
6°	2226.7	2219.4	2225.2	2236.7	2249.7	2259.8
6.5°	2217.9	2209.9	2216.4	2228.9	2243.5	2254.8
7°	2208.9	2200.8	2207.4	2220.9	2237.0	2249.0
7.5°	2199.1	2190.6	2197.8	2212.9	2229.7	2242.5
8°	2189.3	2179.8	2188.1	2203.9	2221.9	2235.4
8.5°	2178.8	2168.8	2177.5	2194.3	2213.1	2228.2
9°	2168.3	2157.7	2166.5	2184.6	2204.4	2220.2
9.5°	2156.5	2145.9	2155.5	2174.0	2194.8	2211.4
10°	2144.9	2134.2	2143.7	2163.5	2185.1	2202.4
10.5°	2132.7	2121.1	2131.9	2152.2	2174.8	2192.6
11°	2120.1	2108.1	2119.4	2140.2	2164.0	2182.5
11.5°	2107.3	2095.0	2106.3	2127.9	2152.7	2172.0
12°	2093.8	2081.0	2093.0	2115.4	2140.7	2160.2
12.5°	2080.3	2067.2	2079.5	2102.1	2128.4	2148.7
13°	2066.0	2052.7	2065.2	2088.8	2116.1	2136.9
13.5°	2051.4	2037.9	2050.4	2074.7	2102.8	2124.1
14°	2036.1	2022.8	2035.4	2060.9	2089.5	2111.6
14.5°	2020.6	2007.3	2020.1	2046.4	2075.5	2098.1
15°	2004.5	1991.2	2004.3	2031.4	2061.9	2084.3
15.5°	1989.0	1974.4	1988.0	2015.8	2046.7	2070.0
16°	1972.2	1958.1	1971.7	2000.5	2031.9	2055.4
16.5°	1955.4	1940.6	1954.6	1985.0	2016.8	2040.4
17°	1937.8	1923.5	1937.6	1968.7	2001.3	2025.1
17.5°	1920.8	1905.5	1920.0	1951.4	1984.5	2009.0
18°	1903.2	1887.2	1902.5	1934.3	1967.9	1993.3
18.5°	1884.9	1868.6	1884.7	1916.8	1951.1	1977.0
19°	1866.9	1850.6	1865.9	1898.7	1933.6	1960.2
19.5°	1848.6	1831.8	1847.8	1880.9	1916.0	1943.1
20°	1830.3	1812.2	1829.5	1862.1	1898.0	1926.1
20.5°	1812.2	1793.2	1810.7	1843.1	1879.2	1908.3
21°	1792.7	1773.9	1791.7	1824.0	1860.4	1890.5



TEST NUMBER: P776082

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1732.7	1715.2	1732.7	1763.6	1801.4	1835.5
23°	1712.2	1694.9	1712.2	1743.0	1781.1	1816.7
23.5°	1691.9	1674.8	1692.6	1722.5	1760.6	1797.7
24°	1670.8	1654.3	1671.6	1701.4	1739.5	1777.9
24.5°	1649.8	1633.7	1651.3	1679.8	1719.0	1757.8
25°	1628.7	1612.4	1630.0	1658.3	1697.9	1737.5
25.5°	1607.1	1591.3	1608.9	1636.7	1676.3	1717.2
26°	1586.1	1570.0	1586.6	1613.9	1655.0	1696.9
26.5°	1564.0	1548.0	1564.0	1592.1	1633.2	1675.3
27°	1541.4	1525.4	1541.2	1568.3	1611.1	1654.3
27.5°	1518.4	1502.8	1517.6	1545.0	1588.6	1632.2
28°	1494.8	1478.0	1492.8	1521.1	1565.5	1610.4
28.5°	1470.2	1453.4	1469.2	1497.1	1542.2	1588.1
29°	1445.7	1428.1	1443.9	1472.7	1518.6	1565.3
29.5°	1420.6	1402.5	1418.1	1447.4	1494.6	1541.9
30°	1394.5	1375.7	1391.8	1422.4	1470.5	1518.4
30.5°	1367.9	1347.1	1365.2	1396.5	1445.2	1494.3
31°	1340.9	1318.6	1337.1	1370.7	1419.8	1469.7
31.5°	1313.3	1289.5	1309.0	1345.1	1394.3	1444.4
32°	1285.5	1259.6	1279.7	1317.6	1368.4	1418.1
32.5°	1256.4	1230.0	1250.6	1291.2	1342.1	1392.3
33°	1226.8	1199.2	1220.8	1264.1	1314.5	1365.2
33.5°	1196.7	1168.9	1190.9	1236.8	1287.2	1337.4
34°	1166.4	1138.5	1161.4	1208.5	1258.9	1308.0
34.5°	1135.3	1107.9	1131.0	1178.7	1230.6	1278.2
35°	1104.7	1077.9	1100.2	1148.8	1200.5	1247.1
35.5°	1073.8	1047.5	1070.6	1118.2	1170.6	1216.0
36°	1042.3	1017.7	1040.5	1087.1	1138.3	1182.7
36.5°	1010.9	987.3	1010.2	1055.3	1105.4	1149.3
37°	979.1	956.5	979.3	1020.2	1071.6	1115.0
37.5°	947.0	924.9	948.0	987.3	1038.5	1080.9
38°	914.6	893.8	915.6	952.5	1002.4	1045.5
38.5°	881.3	859.7	882.0	918.9	966.8	1011.9
39°	848.9	825.6	848.4	899.6	929.9	976.8
39.5°	815.9	791.3	814.9	860.5	888.3	943.0
40°	782.5	757.2	781.0	821.1	853.7	909.1
40.5°	749.4	724.3	747.4	782.0	819.1	875.5
41°	716.6	692.7	712.3	742.9	784.8	841.4
41.5°	685.2	661.4	678.5	708.3	750.2	807.8
42°	652.1	631.1	645.4	673.4	715.3	774.0
42.5°	620.3	600.2	613.5	639.1	681.2	740.1
43°	588.9	569.9	581.9	605.0	646.4	705.8
43.5°	557.1	539.3	549.6	571.6	612.8	672.2



TEST NUMBER: P776082

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	468.6	449.3	456.6	475.1	517.7	575.4
45.5°	440.3	421.2	426.0	445.0	488.4	544.8
46°	412.7	393.6	396.9	416.2	459.3	513.2
46.5°	387.1	365.8	368.3	388.4	431.7	482.1
47°	360.5	339.5	341.2	361.3	403.7	451.8
47.5°	336.2	313.7	315.4	335.7	377.6	422.2
48°	312.9	288.8	290.3	311.1	351.0	393.4
48.5°	290.3	264.5	267.0	287.8	325.7	365.8
49°	269.0	242.2	244.7	265.8	300.6	338.7
49.5°	248.7	220.6	223.6	244.5	277.3	312.7
50°	230.7	200.6	204.6	224.6	254.0	288.1
50.5°	212.9	182.5	186.3	205.6	232.4	263.8
51°	194.8	166.2	170.0	188.0	212.1	240.9
51.5°	177.0	151.4	154.7	171.0	192.8	218.4
52°	161.7	138.1	140.9	155.7	174.8	197.3
52.5°	146.9	126.1	127.9	141.2	157.7	177.3
53°	132.9	114.6	116.3	127.1	141.4	158.7
53.5°	120.3	104.1	105.1	113.8	126.4	141.2
54°	108.3	94.0	94.5	101.8	112.6	125.6
54.5°	96.8	85.0	85.5	90.3	99.8	111.3
55°	86.2	76.2	76.5	80.7	87.0	98.3
55.5°	75.7	67.4	67.7	71.2	77.2	85.7
56°	66.2	58.7	58.7	61.7	67.4	76.0
56.5°	57.4	49.9	49.6	52.4	57.7	65.9
57°	49.1	40.9	40.6	42.9	47.9	56.2
57.5°	40.1	31.8	31.8	33.6	38.6	46.4
58°	34.1	24.3	24.1	25.6	29.6	37.1
58.5°	28.1	18.3	17.8	18.8	22.1	28.1
59°	22.1	13.5	13.3	14.0	16.3	20.6
59.5°	16.0	10.3	10.0	10.5	12.0	15.0
60°	10.0	8.8	8.5	9.0	9.0	11.3
60.5°	7.8	7.0	7.0	7.5	7.8	8.3
61°	6.3	5.5	5.3	6.3	6.3	7.0
61.5°	5.0	4.0	3.8	4.8	5.0	5.8
62°	4.0	3.3	3.3	3.3	3.8	4.5
62.5°	3.3	2.8	2.5	2.8	3.0	3.3
63°	2.8	2.3	2.3	2.3	2.5	2.8
63.5°	2.3	2.0	1.8	1.8	2.0	2.3
64°	2.0	1.8	1.5	1.5	1.8	1.8
64.5°	1.8	1.5	1.3	1.3	1.5	1.5
65°	1.5	1.3	1.0	1.3	1.3	1.3
65.5°	1.3	1.0	1.0	1.0	1.0	1.3
66°	1.0	1.0	0.8	0.8	1.0	1.0



TEST NUMBER: P776082

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.8	0.5	0.5	0.8	0.8
68°	0.8	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	0.3	0.3	0.3	0.3
70.5°	0.5	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	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.0	0.0	0.3
75.5°	0.3	0.0	0.0	0.0	0.0	0.0
76°	0.3	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: P776082

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-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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Scaled Data Report





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

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Scaled Data Report



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21.5°	1872.2	1902.2	1926.8	1932.6	1927.1	1914.0	1886.7	1850.3	1821.8	1801.7	1785.9
22°	1854.1	1884.2	1908.8	1914.8	1910.0	1896.7	1868.4	1832.3	1801.9	1781.6	1765.3



44°	638.8	687.7	729.9	747.7	762.7	735.1	702.8	662.4	613.8	574.2	539.1
44.5°	606.8	654.6	694.0	713.3	728.1	700.8	668.9	629.3	584.4	544.3	510.5



66.5°	0.8	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0
67°	0.8	1.0	1.0	1.0	1.3	1.3	1.3	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°	1772.6	1754.6	1772.1	1804.0	1840.8	1872.2
22°	1752.8	1734.8	1752.6	1784.1	1821.3	1854.1



44°	527.0	508.5	518.0	538.8	580.7	638.8
44.5°	497.9	478.4	487.4	506.7	549.1	606.8

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66.5°	1.0	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	0.8	0.8	0.8	0.8

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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)