

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: P776200

Luminaire Tested: HCDJBL51525CSD-HCD8TSQC-2500lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776200  
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-HCD8TSQC-2500lm-2700K  
Description: 8 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

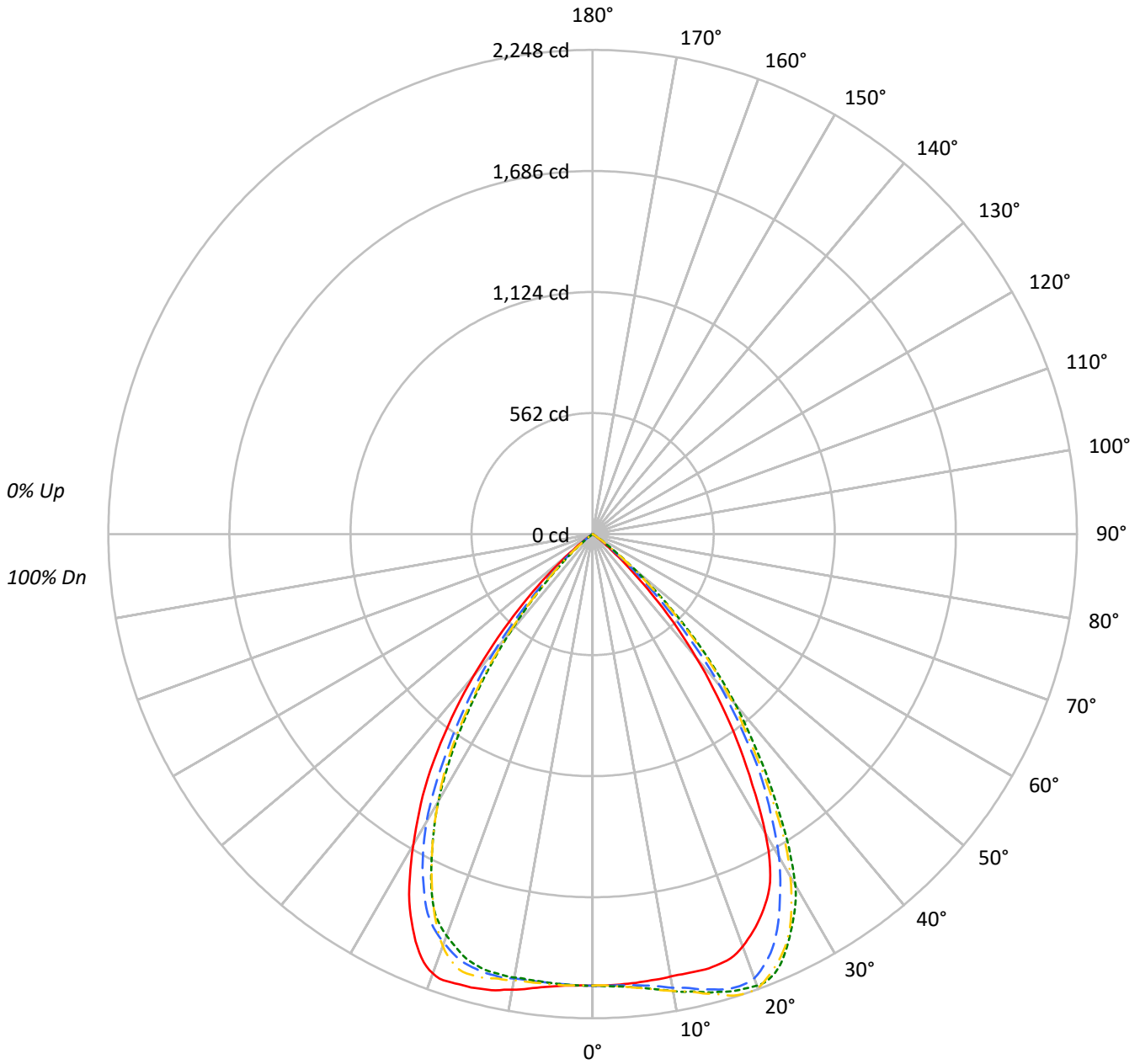
Lumens per Lamp: N/A  
Luminaire Lumens: 2817.7 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.07  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





TEST NUMBER: P776200

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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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45	45	45	45

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

	0°	90°	180°	270°
0°	50264	50264	50264	50264
5°	50391	50829	50742	50398
10°	50786	52461	52295	50910
15°	51808	54663	54100	51478
20°	51986	56932	55367	50603
25°	50192	56267	52584	46919
30°	44461	52139	46111	39668
35°	34126	42538	37711	29673
40°	23454	32328	26857	18684
45°	12333	20997	15372	8752
50°	4137	9486	5909	2835
55°	293	2057	648	71
60°	48	58	48	34
65°	28	28	28	11
70°	14	14	14	14
75°	19	19	19	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 112.5°  
 Vertical Angle: 45°  
 Luminance: 21221 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.3	7.1
10°-20°	605.2	21.5
20°-30°	882.5	31.3
30°-40°	760.4	27.0
40°-50°	334.4	11.9
50°-60°	33.3	1.2
60°-70°	0.5	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°	1689.0	59.9
0°-40°	2449.4	86.9
0°-60°	2817.1	100.0
0°-90°	2817.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2096	2096	2096	2096	2096	
5°	2094	2112	2108	2094	2094	200
15°	2087	2202	2179	2074	2087	589
25°	1897	2127	1988	1773	1897	861
35°	1166	1453	1288	1014	1166	723
45°	364	619	453	258	364	291
55°	7	49	16	2	7	24
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	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°	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2
0.5°	2096.7	2097.6	2098.1	2096.4	2097.2	2096.0	2095.0	2095.5	2096.2	2096.9	2096.9
1°	2096.7	2097.9	2098.4	2097.6	2097.9	2096.7	2095.2	2095.7	2096.4	2096.9	2096.9
1.5°	2096.7	2097.6	2098.1	2098.4	2099.3	2097.9	2096.0	2096.4	2096.4	2096.7	2096.4
2°	2096.2	2096.9	2097.9	2099.1	2100.8	2099.6	2097.9	2097.6	2097.2	2096.7	2096.2
2.5°	2096.2	2096.9	2098.1	2099.1	2102.0	2102.0	2099.6	2099.1	2098.6	2096.9	2095.5
3°	2095.5	2096.7	2098.4	2099.8	2103.0	2102.7	2102.0	2101.8	2099.6	2097.2	2095.0
3.5°	2095.0	2096.2	2099.1	2101.3	2104.2	2104.4	2103.9	2103.7	2101.0	2097.9	2094.5
4°	2094.3	2095.5	2099.8	2103.0	2106.4	2106.9	2106.4	2106.6	2103.2	2098.4	2094.0
4.5°	2094.0	2095.5	2101.0	2105.2	2108.8	2109.8	2109.3	2109.0	2105.6	2099.3	2093.0
5°	2093.5	2095.5	2102.5	2108.1	2111.7	2112.4	2112.7	2112.7	2108.1	2100.3	2093.0
5.5°	2093.0	2096.4	2104.4	2111.5	2114.6	2115.6	2115.8	2116.8	2111.2	2101.5	2092.8
6°	2092.3	2096.9	2106.6	2114.6	2118.0	2119.0	2119.7	2120.7	2114.4	2103.2	2092.8
6.5°	2091.4	2097.6	2109.5	2118.5	2121.9	2122.4	2123.8	2124.8	2118.2	2105.6	2093.0
7°	2090.4	2098.4	2112.7	2122.8	2126.0	2126.0	2127.7	2129.4	2122.4	2107.8	2093.0
7.5°	2089.7	2099.3	2116.3	2127.9	2130.1	2130.1	2131.3	2133.5	2126.5	2110.5	2093.0
8°	2089.4	2100.8	2119.9	2133.0	2134.5	2134.5	2136.2	2138.8	2131.1	2112.9	2093.3
8.5°	2088.9	2103.2	2124.0	2138.3	2139.1	2139.5	2140.8	2143.7	2135.7	2115.3	2093.8
9°	2088.4	2105.9	2128.9	2144.4	2144.4	2144.4	2145.1	2149.0	2140.0	2118.0	2094.0
9.5°	2087.2	2108.1	2134.2	2150.0	2149.0	2149.5	2149.5	2153.8	2144.1	2120.4	2094.0
10°	2085.8	2110.2	2138.6	2156.0	2154.6	2155.0	2154.3	2157.9	2147.8	2122.8	2095.2
10.5°	2084.8	2111.9	2142.5	2161.3	2159.9	2160.4	2158.9	2161.8	2151.4	2126.2	2098.1
11°	2084.8	2114.1	2146.1	2165.5	2165.0	2165.2	2163.0	2165.5	2155.3	2131.1	2100.6
11.5°	2085.8	2117.3	2150.0	2169.3	2168.8	2169.3	2166.9	2169.6	2161.1	2135.4	2101.3
12°	2086.3	2121.4	2155.3	2173.7	2171.8	2173.7	2171.8	2175.6	2165.7	2139.5	2100.6
12.5°	2086.3	2125.5	2161.8	2178.5	2175.6	2178.3	2177.6	2181.4	2169.3	2140.3	2099.3
13°	2086.0	2127.9	2168.4	2184.6	2180.7	2183.9	2184.8	2186.0	2171.0	2141.5	2099.1
13.5°	2086.5	2129.4	2174.4	2190.2	2187.3	2190.2	2192.8	2188.7	2172.2	2143.9	2098.4
14°	2087.5	2130.6	2178.8	2194.0	2193.5	2197.2	2199.4	2190.4	2174.4	2146.3	2096.7
14.5°	2087.7	2132.3	2183.6	2196.2	2198.4	2202.5	2204.7	2193.1	2177.1	2148.0	2093.8
15°	2087.0	2133.5	2189.2	2198.1	2202.0	2206.1	2210.5	2197.2	2179.3	2149.2	2090.6
15.5°	2085.1	2133.5	2194.8	2202.0	2205.9	2208.8	2218.2	2200.6	2179.7	2149.5	2087.0
16°	2083.1	2131.6	2199.8	2205.4	2210.7	2212.7	2227.0	2202.7	2180.0	2150.4	2083.8
16.5°	2080.9	2128.6	2203.2	2206.9	2215.8	2217.3	2234.7	2203.5	2180.5	2151.2	2080.2
17°	2078.5	2125.3	2205.4	2206.9	2219.7	2220.4	2240.5	2202.5	2181.4	2151.9	2075.1
17.5°	2075.9	2122.4	2206.6	2206.1	2222.1	2221.9	2244.2	2201.5	2182.4	2150.9	2068.6
18°	2072.0	2119.2	2206.6	2205.2	2223.8	2221.6	2246.1	2200.8	2183.9	2146.6	2059.6
18.5°	2065.4	2116.1	2205.7	2204.0	2225.5	2221.6	2247.3	2199.6	2184.3	2139.5	2049.7
19°	2057.0	2111.9	2204.0	2203.0	2227.5	2222.6	2248.3	2198.1	2182.4	2128.6	2040.3
19.5°	2047.5	2106.6	2200.8	2201.8	2229.1	2224.3	2246.8	2194.3	2177.3	2117.0	2030.3
20°	2037.3	2099.6	2194.5	2199.8	2231.1	2226.0	2242.9	2188.0	2169.8	2104.2	2019.7
20.5°	2026.2	2091.8	2185.1	2196.2	2231.8	2226.5	2235.2	2180.7	2161.6	2090.1	2008.5
21°	2014.1	2083.6	2173.0	2190.2	2230.1	2224.5	2224.5	2172.2	2150.4	2073.7	1996.9



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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°	1974.9	2053.3	2129.6	2165.0	2207.8	2215.1	2189.7	2145.8	2102.3	2018.7	1955.7
23°	1960.3	2039.5	2113.1	2156.0	2196.2	2209.0	2176.4	2134.7	2082.2	1997.9	1939.0
23.5°	1945.3	2023.5	2094.5	2144.6	2182.2	2201.3	2162.1	2122.4	2060.6	1976.1	1920.4
24°	1930.1	2005.4	2074.2	2132.5	2165.2	2190.6	2147.1	2107.8	2036.6	1952.8	1898.8
24.5°	1914.1	1984.6	2051.2	2118.7	2146.1	2177.8	2131.3	2091.1	2012.6	1928.1	1875.1
25°	1897.1	1962.3	2026.9	2102.0	2126.7	2161.6	2113.6	2071.3	1987.5	1901.3	1848.0
25.5°	1879.0	1938.5	2000.3	2082.9	2106.1	2142.9	2094.5	2049.2	1962.5	1874.6	1821.1
26°	1859.8	1913.4	1972.7	2060.6	2084.8	2121.6	2072.7	2024.5	1934.7	1844.6	1794.0
26.5°	1838.0	1887.0	1943.6	2035.9	2062.1	2097.4	2049.7	1997.2	1906.1	1814.3	1766.8
27°	1814.1	1857.7	1913.8	2007.6	2039.8	2070.8	2023.5	1966.9	1876.8	1784.3	1739.7
27.5°	1785.7	1826.9	1884.5	1975.8	2017.3	2043.4	1996.4	1935.6	1842.2	1754.3	1707.5
28°	1755.0	1794.7	1855.0	1940.7	1993.8	2011.4	1966.2	1902.9	1807.5	1724.2	1675.8
28.5°	1721.3	1761.5	1826.2	1903.7	1969.5	1978.5	1934.2	1871.9	1772.9	1692.3	1643.6
29°	1685.0	1728.8	1795.4	1866.6	1943.9	1944.4	1902.5	1836.6	1738.3	1659.3	1609.9
29.5°	1646.0	1694.9	1763.9	1829.6	1915.3	1908.8	1871.0	1801.0	1703.4	1626.2	1576.0
30°	1605.8	1661.5	1730.8	1791.8	1883.1	1870.5	1835.1	1765.4	1665.4	1590.6	1540.9
30.5°	1561.5	1628.6	1694.4	1755.0	1842.6	1832.2	1799.3	1730.0	1628.1	1555.0	1504.3
31°	1516.4	1596.4	1655.7	1717.9	1802.2	1794.0	1763.7	1689.4	1592.2	1517.7	1463.4
31.5°	1470.2	1562.2	1616.2	1681.4	1761.8	1755.7	1727.9	1648.2	1555.2	1480.1	1420.3
32°	1425.9	1524.2	1577.0	1645.8	1721.3	1717.2	1683.1	1605.8	1518.9	1442.3	1376.5
32.5°	1380.6	1484.0	1538.7	1608.7	1677.5	1680.6	1637.0	1564.4	1483.3	1405.1	1333.6
33°	1337.2	1441.6	1502.2	1570.2	1631.2	1641.2	1589.6	1523.5	1447.4	1366.8	1288.8
33.5°	1293.9	1396.6	1466.1	1531.2	1585.7	1601.7	1542.8	1480.4	1409.2	1327.1	1245.9
34°	1251.5	1349.6	1430.7	1491.7	1540.4	1557.1	1498.8	1437.0	1370.7	1285.7	1202.1
34.5°	1208.9	1305.0	1392.9	1450.3	1496.3	1509.9	1454.5	1394.4	1330.7	1241.3	1160.2
35°	1165.8	1260.7	1352.7	1408.4	1453.2	1460.3	1410.4	1353.7	1288.3	1196.8	1116.9
35.5°	1124.9	1217.6	1310.4	1366.8	1410.1	1411.3	1364.1	1311.6	1244.0	1152.2	1075.7
36°	1080.1	1175.5	1265.1	1324.4	1366.5	1361.2	1318.8	1270.6	1200.2	1108.4	1032.8
36.5°	1035.3	1132.6	1217.4	1281.3	1321.7	1312.5	1271.9	1228.3	1157.3	1067.5	990.7
37°	992.2	1088.8	1172.1	1237.2	1277.9	1264.6	1227.3	1187.1	1115.7	1027.0	948.1
37.5°	950.0	1046.9	1129.0	1196.1	1234.8	1221.0	1184.9	1146.9	1075.5	986.1	906.2
38°	909.6	1005.5	1087.1	1153.9	1192.4	1180.6	1145.7	1108.4	1033.1	944.7	865.5
38.5°	872.0	963.3	1046.9	1113.2	1151.3	1142.1	1108.2	1067.0	989.7	903.3	825.8
39°	831.4	920.5	1005.5	1071.6	1112.0	1105.2	1071.8	1025.3	945.9	862.1	787.0
39.5°	790.4	878.3	963.1	1026.5	1073.0	1068.4	1034.8	980.8	901.3	819.0	747.6
40°	749.3	836.9	919.3	977.9	1032.8	1032.6	997.2	937.7	858.0	775.7	707.4
40.5°	708.3	795.8	876.2	930.9	991.9	994.3	958.3	894.3	813.2	731.3	666.4
41°	667.4	754.3	831.1	886.8	949.3	955.6	918.8	853.2	771.3	687.8	625.3
41.5°	628.2	712.9	786.1	845.2	906.9	917.3	879.1	812.2	730.1	645.4	584.1
42°	589.9	671.8	740.8	803.8	863.6	877.9	838.1	772.5	689.0	603.0	542.7
42.5°	552.4	629.9	695.7	762.3	821.2	838.1	797.2	731.8	648.3	562.6	502.3
43°	513.2	587.7	650.7	721.2	780.3	796.5	755.1	691.4	607.1	523.6	463.0
43.5°	474.6	544.6	609.0	679.5	738.6	754.1	712.7	650.5	566.4	485.3	424.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	363.7	423.3	489.9	559.4	619.2	625.8	589.7	533.3	453.3	375.8	318.0
45.5°	328.9	386.7	454.3	520.9	578.8	583.4	548.8	495.7	417.7	342.4	286.7
46°	295.4	352.6	418.5	483.1	538.1	541.5	508.8	458.4	384.8	310.9	257.7
46.5°	263.5	319.4	383.8	445.1	499.3	500.6	469.8	421.1	351.4	280.7	234.2
47°	233.4	288.2	350.4	408.8	461.1	459.9	431.3	385.0	320.1	253.8	210.7
47.5°	205.6	259.1	318.2	372.9	424.0	421.4	393.0	349.9	289.4	230.8	187.0
48°	180.7	232.5	286.7	339.5	387.5	384.8	357.7	316.8	260.6	207.5	163.5
48.5°	159.3	207.5	257.4	308.0	350.7	349.2	323.1	284.8	234.9	184.5	145.3
49°	140.9	184.5	230.5	277.8	315.5	314.8	290.1	257.7	209.5	161.5	128.8
49.5°	125.0	163.5	205.1	248.0	281.9	282.6	262.5	230.5	183.8	142.2	114.1
50°	110.9	144.3	181.4	218.7	254.3	255.2	234.7	203.4	158.4	125.0	100.3
50.5°	97.6	126.4	159.6	191.3	226.7	228.1	207.1	176.3	137.6	108.5	86.5
51°	85.0	109.7	139.0	165.9	199.3	200.8	179.4	149.2	118.9	93.2	73.6
51.5°	73.9	95.4	120.6	143.1	171.7	173.6	151.6	128.8	102.2	78.7	62.2
52°	62.7	81.4	103.4	123.0	144.6	146.3	130.3	109.9	86.5	65.4	50.9
52.5°	51.6	69.7	87.7	104.4	124.0	124.2	110.7	93.2	71.7	53.5	41.2
53°	40.4	58.1	75.1	87.9	105.1	105.1	93.2	77.7	58.6	43.3	31.7
53.5°	29.3	46.3	62.7	75.1	88.4	87.9	77.3	63.7	47.7	33.4	22.0
54°	17.2	34.6	50.4	62.5	72.7	71.9	63.2	51.8	37.1	23.5	12.6
54.5°	8.7	22.3	38.0	49.6	58.6	58.6	51.1	42.1	26.2	13.6	3.4
55°	7.0	11.9	25.7	37.1	49.2	47.7	41.4	32.2	15.5	3.9	2.4
55.5°	5.3	9.9	14.0	24.2	40.0	37.1	31.7	22.5	5.1	2.7	1.9
56°	3.6	7.7	6.3	12.6	30.5	26.4	22.3	12.8	2.9	2.2	1.7
56.5°	2.2	5.8	4.8	5.3	21.3	15.5	12.6	3.1	2.4	1.9	1.5
57°	1.9	3.9	3.9	4.1	11.9	4.8	3.1	2.4	1.9	1.7	1.2
57.5°	1.7	1.9	2.9	3.4	2.7	2.7	2.4	2.2	1.7	1.5	1.2
58°	1.5	1.7	1.7	2.4	2.2	2.2	1.9	1.9	1.5	1.2	1.0
58.5°	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.5	1.2	1.0
59°	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.0	1.0
59.5°	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.2	1.2	1.0	0.7
60°	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	0.7
60.5°	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.0	0.7	0.7
61°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7
61.5°	0.7	1.0	0.7	0.7	1.0	1.0	1.0	1.0	0.7	0.7	0.7
62°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.5
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5
63°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5
63.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5
64°	0.5	0.7	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	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	0.5	0.5	0.5	0.5	0.2





TEST NUMBER: P776200

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-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	0.2	0.2
68°	0.5	0.5	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	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	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	0.0
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
75.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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: P776200  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-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: P776200

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2096.2	2096.2	2096.2	2096.2	2096.2	2096.2
0.5°	2095.7	2097.2	2095.7	2095.0	2095.5	2096.7
1°	2095.7	2096.9	2096.2	2095.2	2096.2	2096.7
1.5°	2095.5	2096.9	2096.4	2095.7	2096.2	2096.7
2°	2095.0	2096.7	2096.7	2096.4	2096.4	2096.2
2.5°	2094.0	2096.2	2097.2	2097.2	2096.7	2096.2
3°	2093.3	2095.7	2097.6	2098.4	2097.2	2095.5
3.5°	2092.3	2095.5	2098.4	2098.6	2097.2	2095.0
4°	2091.4	2095.2	2098.6	2099.6	2097.2	2094.3
4.5°	2090.1	2094.3	2099.1	2099.8	2096.9	2094.0
5°	2089.2	2093.8	2099.1	2099.8	2096.7	2093.5
5.5°	2088.4	2093.0	2098.6	2099.8	2095.7	2093.0
6°	2087.5	2092.3	2098.4	2099.3	2095.5	2092.3
6.5°	2085.8	2091.6	2098.4	2099.3	2095.0	2091.4
7°	2084.6	2091.1	2098.6	2099.6	2094.5	2090.4
7.5°	2082.9	2090.4	2099.6	2100.6	2094.3	2089.7
8°	2081.2	2090.1	2099.6	2101.0	2094.5	2089.4
8.5°	2079.2	2089.4	2099.3	2101.0	2094.3	2088.9
9°	2076.8	2088.7	2099.6	2101.0	2093.3	2088.4
9.5°	2074.9	2089.4	2101.5	2101.5	2092.6	2087.2
10°	2074.2	2090.9	2104.2	2103.9	2092.6	2085.8
10.5°	2074.6	2091.8	2106.6	2106.9	2093.8	2084.8
11°	2074.2	2091.4	2108.3	2108.8	2095.5	2084.8
11.5°	2072.7	2089.9	2109.0	2110.0	2095.7	2085.8
12°	2070.8	2088.2	2110.2	2110.5	2094.7	2086.3
12.5°	2070.5	2087.5	2113.1	2113.4	2093.8	2086.3
13°	2070.5	2087.0	2117.0	2117.0	2093.3	2086.0
13.5°	2070.0	2085.8	2120.4	2119.7	2093.3	2086.5
14°	2068.6	2082.9	2121.6	2121.4	2091.8	2087.5
14.5°	2065.9	2078.3	2122.4	2121.9	2088.9	2087.7
15°	2063.5	2073.7	2122.6	2122.4	2085.1	2087.0
15.5°	2060.6	2069.1	2122.6	2122.6	2081.7	2085.1
16°	2057.7	2064.0	2121.4	2122.4	2077.8	2083.1
16.5°	2054.8	2057.7	2117.5	2120.2	2073.9	2080.9
17°	2049.2	2049.0	2110.2	2114.8	2068.6	2078.5
17.5°	2041.2	2038.6	2099.6	2106.6	2061.3	2075.9
18°	2031.3	2027.4	2086.3	2095.7	2052.8	2072.0
18.5°	2019.7	2017.0	2071.5	2083.4	2043.2	2065.4
19°	2008.0	2006.1	2054.8	2069.1	2033.5	2057.0
19.5°	1995.7	1995.0	2036.1	2053.1	2024.0	2047.5
20°	1982.1	1983.1	2015.6	2034.4	2014.3	2037.3
20.5°	1968.3	1971.2	1993.0	2014.3	2004.2	2026.2
21°	1953.1	1957.9	1968.3	1991.3	1993.8	2014.1



TEST NUMBER: P776200

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1906.8	1908.5	1889.4	1915.5	1957.0	1974.9
23°	1890.1	1886.5	1860.3	1887.4	1941.5	1960.3
23.5°	1872.9	1861.8	1831.5	1858.4	1924.0	1945.3
24°	1855.0	1834.2	1801.5	1828.8	1902.9	1930.1
24.5°	1837.6	1805.1	1770.7	1798.3	1878.7	1914.1
25°	1815.0	1773.4	1738.8	1767.6	1851.1	1897.1
25.5°	1792.5	1740.9	1708.7	1736.6	1821.8	1879.0
26°	1770.2	1708.2	1678.5	1704.4	1790.6	1859.8
26.5°	1747.5	1675.1	1645.0	1672.4	1758.4	1838.0
27°	1715.8	1640.9	1612.3	1639.7	1725.0	1814.1
27.5°	1681.4	1607.3	1579.9	1606.1	1691.3	1785.7
28°	1641.9	1574.1	1546.2	1571.7	1657.4	1755.0
28.5°	1602.7	1540.9	1511.4	1538.5	1623.5	1721.3
29°	1562.7	1506.3	1475.5	1504.8	1588.9	1685.0
29.5°	1523.0	1471.6	1439.9	1470.0	1551.8	1646.0
30°	1481.1	1432.7	1405.5	1435.3	1514.3	1605.8
30.5°	1438.2	1392.5	1370.9	1399.2	1474.8	1561.5
31°	1395.1	1351.3	1336.0	1364.9	1434.1	1516.4
31.5°	1351.8	1310.1	1301.2	1330.2	1391.2	1470.2
32°	1308.7	1266.0	1265.1	1294.4	1348.4	1425.9
32.5°	1265.3	1224.2	1229.0	1256.1	1304.8	1380.6
33°	1222.0	1183.0	1190.0	1216.2	1261.2	1337.2
33.5°	1180.8	1142.5	1146.9	1175.0	1217.4	1293.9
34°	1139.2	1101.4	1101.6	1131.9	1178.1	1251.5
34.5°	1097.0	1059.2	1054.9	1087.3	1136.7	1208.9
35°	1053.2	1013.7	1011.5	1042.3	1094.8	1165.8
35.5°	1009.1	968.9	967.7	997.7	1051.0	1124.9
36°	966.5	924.6	926.0	954.4	1007.7	1080.1
36.5°	924.6	879.6	882.7	912.0	960.7	1035.3
37°	885.1	839.4	840.1	870.8	917.8	992.2
37.5°	846.9	799.2	797.7	828.5	875.9	950.0
38°	807.1	758.7	755.1	786.1	836.0	909.6
38.5°	765.7	718.5	712.7	743.7	795.8	872.0
39°	722.6	678.3	670.1	701.3	755.6	831.4
39.5°	681.9	637.6	629.6	658.9	715.4	790.4
40°	641.7	596.9	589.2	619.5	675.2	749.3
40.5°	604.4	559.4	548.8	580.0	634.5	708.3
41°	566.9	522.6	511.9	541.0	596.7	667.4
41.5°	530.3	485.8	473.4	502.7	557.7	628.2
42°	492.1	450.4	439.3	465.9	520.7	589.9
42.5°	454.8	415.8	405.4	430.3	483.8	552.4
43°	418.0	381.4	373.7	396.7	448.7	513.2
43.5°	382.6	347.5	343.4	364.7	413.1	474.6



TEST NUMBER: P776200

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	284.3	258.1	261.8	278.0	310.9	363.7
45.5°	257.7	231.8	237.8	252.8	280.4	328.9
46°	231.3	207.1	215.3	228.8	251.4	295.4
46.5°	204.9	184.5	193.5	206.3	223.5	263.5
47°	178.5	164.2	173.9	185.5	198.3	233.4
47.5°	152.1	145.5	155.0	165.2	175.6	205.6
48°	135.6	128.8	137.6	146.8	155.2	180.7
48.5°	121.3	114.1	121.1	129.6	137.3	159.3
49°	108.5	100.7	105.3	113.6	121.6	140.9
49.5°	96.1	87.9	90.8	98.8	107.0	125.0
50°	84.5	76.0	78.7	84.3	94.0	110.9
50.5°	72.7	64.4	66.6	72.4	81.6	97.6
51°	61.3	52.6	54.2	60.5	70.7	85.0
51.5°	50.9	40.9	42.1	48.7	59.6	73.9
52°	41.2	29.1	30.0	37.1	48.7	62.7
52.5°	31.7	16.7	17.9	25.2	37.5	51.6
53°	22.3	8.0	8.7	13.8	24.9	40.4
53.5°	12.6	6.3	7.0	6.1	14.0	29.3
54°	3.4	4.6	5.1	5.1	6.5	17.2
54.5°	2.4	3.1	3.4	3.9	5.3	8.7
55°	1.9	1.7	1.7	2.9	4.1	7.0
55.5°	1.7	1.5	1.5	1.7	3.1	5.3
56°	1.5	1.2	1.5	1.7	1.9	3.6
56.5°	1.2	1.2	1.2	1.5	1.7	2.2
57°	1.2	1.0	1.2	1.2	1.5	1.9
57.5°	1.0	1.0	1.0	1.2	1.5	1.7
58°	1.0	1.0	1.0	1.2	1.2	1.5
58.5°	1.0	0.7	1.0	1.0	1.2	1.5
59°	0.7	0.7	0.7	1.0	1.2	1.2
59.5°	0.7	0.7	0.7	1.0	1.0	1.2
60°	0.7	0.7	0.7	0.7	1.0	1.0
60.5°	0.7	0.7	0.7	0.7	1.0	1.0
61°	0.7	0.5	0.7	0.7	0.7	1.0
61.5°	0.5	0.5	0.5	0.7	0.7	0.7
62°	0.5	0.5	0.5	0.7	0.7	0.7
62.5°	0.5	0.5	0.5	0.5	0.7	0.7
63°	0.5	0.5	0.5	0.5	0.7	0.7
63.5°	0.5	0.5	0.5	0.5	0.5	0.7
64°	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.2	0.5	0.5	0.5	0.5
65.5°	0.2	0.2	0.2	0.5	0.5	0.5
66°	0.2	0.2	0.2	0.5	0.5	0.5



TEST NUMBER: P776200

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	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	0.2	0.2	0.2	0.2
73.5°	0.0	0.0	0.2	0.2	0.2	0.2
74°	0.0	0.0	0.0	0.2	0.2	0.2
74.5°	0.0	0.0	0.0	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.2	0.2
75.5°	0.0	0.0	0.0	0.0	0.0	0.2
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: P776200

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQC-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°	2001.5	2075.1	2159.4	2181.7	2225.0	2221.9	2213.6	2164.5	2137.1	2056.2	1984.3
22°	1988.7	2065.2	2145.1	2173.4	2217.3	2218.7	2202.0	2155.8	2120.7	2038.1	1971.0



44°	436.6	502.7	567.9	637.9	698.9	711.7	671.0	610.5	527.7	447.5	387.2
44.5°	399.8	461.8	528.4	597.7	659.4	668.9	629.6	570.5	489.9	410.5	351.6



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



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°	1938.3	1943.1	1943.6	1966.9	1982.4	2001.5
22°	1922.3	1926.9	1916.5	1941.7	1970.3	1988.7



44°	349.2	315.8	314.6	334.4	377.3	436.6
44.5°	316.5	286.5	287.5	305.4	343.6	399.8

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