

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: P776001

Luminaire Tested: HCDJBL51525CSD-HCD4TSQC-2500lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776001  
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-HCD4TSQC-2500lm-3000K  
Description: 4 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

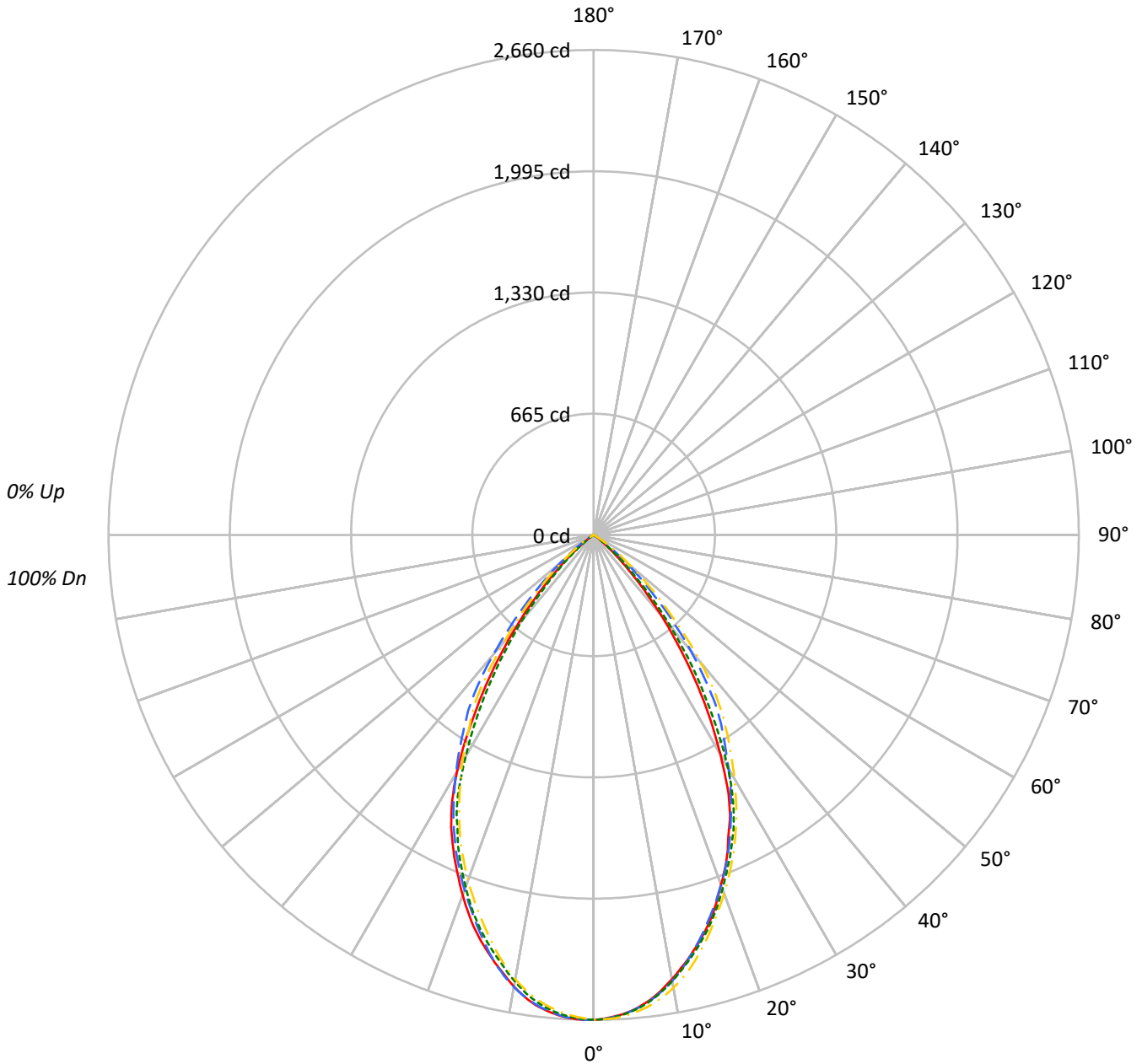
Lumens per Lamp: N/A  
Luminaire Lumens: 2749.8 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.93 / 0.98  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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





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

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

	0°	90°	180°	270°
0°	262762	262762	262762	262762
5°	258954	259400	261136	259837
10°	248318	249352	252453	249633
15°	233985	235224	238580	234610
20°	214863	217335	220995	216062
25°	192044	197192	200289	192797
30°	158485	167901	171063	160289
35°	116610	126118	128531	119349
40°	74618	84411	86063	77585
45°	37742	46171	47582	40537
50°	13255	17668	18806	15039
55°	2464	3188	3619	3584
60°	929	870	791	1067
65°	748	702	631	819
70°	578	578	491	636
75°	458	458	382	573
80°	285	285	285	398
85°	227	227	0	227

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 76699 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.1	8.9
10°-20°	643.7	23.4
20°-30°	817.4	29.7
30°-40°	676.0	24.6
40°-50°	309.3	11.2
50°-60°	52.0	1.9
60°-70°	3.7	0.1
70°-80°	1.4	0.1
80°-90°	0.2	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°	1707.2	62.1
0°-40°	2383.2	86.7
0°-60°	2744.5	99.8
0°-90°	2749.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2749.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2658	2658	2658	2658	2658	
5°	2610	2614	2632	2619	2610	245
15°	2287	2299	2332	2293	2287	639
25°	1761	1808	1836	1768	1761	800
35°	966	1045	1065	989	966	600
45°	270	330	340	290	270	219
55°	14	18	21	21	14	23
65°	3	3	3	4	3	3
75°	1	1	1	2	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776001

CATALOG NUMBER: HCDJBL5125CSD-HCD4TSQC-2500lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4
0.5°	2657.9	2658.1	2658.1	2656.9	2657.9	2657.9	2657.9	2658.9	2660.3	2660.6	2660.1
1°	2655.2	2655.9	2656.1	2655.4	2656.6	2657.1	2657.9	2658.9	2660.3	2660.3	2659.6
1.5°	2652.4	2652.9	2653.4	2653.2	2654.2	2655.2	2656.9	2657.9	2659.6	2660.1	2658.4
2°	2648.2	2649.0	2649.7	2649.5	2651.0	2653.2	2655.2	2656.1	2658.1	2658.9	2656.9
2.5°	2643.5	2644.3	2645.3	2645.3	2646.8	2649.7	2653.2	2653.4	2655.4	2656.1	2654.9
3°	2638.8	2639.3	2639.8	2640.3	2642.1	2645.5	2649.7	2650.2	2652.4	2652.7	2651.0
3.5°	2632.9	2633.2	2633.9	2634.6	2636.4	2641.1	2646.0	2645.3	2648.5	2648.7	2646.5
4°	2626.5	2626.5	2627.0	2628.2	2630.0	2635.4	2640.8	2640.6	2643.8	2643.8	2641.3
4.5°	2618.6	2619.1	2620.1	2621.3	2623.0	2629.5	2635.1	2634.6	2638.6	2638.4	2635.4
5°	2609.9	2610.2	2611.9	2613.4	2614.4	2622.3	2629.0	2628.2	2631.9	2632.4	2628.5
5.5°	2600.3	2600.8	2603.0	2604.8	2606.0	2614.1	2622.0	2621.1	2624.8	2625.3	2621.3
6°	2589.7	2590.2	2593.4	2594.9	2596.1	2605.7	2613.6	2612.7	2616.9	2617.1	2612.9
6.5°	2578.6	2578.8	2582.5	2584.7	2585.5	2595.9	2605.2	2603.8	2608.5	2608.5	2604.8
7°	2566.0	2566.5	2570.9	2573.6	2574.1	2585.0	2596.1	2593.9	2598.6	2598.8	2594.9
7.5°	2553.1	2553.1	2558.8	2561.5	2561.0	2573.4	2585.7	2583.5	2587.2	2588.5	2584.5
8°	2539.0	2539.3	2544.7	2548.7	2547.4	2560.5	2574.6	2571.4	2574.9	2576.1	2572.9
8.5°	2524.0	2525.0	2531.1	2534.6	2532.4	2546.9	2562.8	2558.8	2561.5	2564.0	2560.3
9°	2506.9	2508.9	2515.8	2519.3	2517.1	2532.6	2549.9	2544.7	2546.7	2549.9	2547.7
9.5°	2490.1	2492.4	2500.3	2503.7	2501.0	2517.3	2536.6	2529.7	2531.6	2535.1	2533.6
10°	2474.1	2475.1	2483.5	2487.4	2484.4	2502.0	2522.2	2514.1	2515.3	2519.3	2517.8
10.5°	2456.3	2457.5	2466.4	2469.9	2467.2	2486.2	2506.7	2497.0	2498.3	2502.7	2501.7
11°	2438.7	2440.0	2448.4	2452.3	2449.9	2468.4	2489.6	2479.8	2480.0	2485.9	2485.2
11.5°	2420.5	2421.9	2428.9	2433.6	2431.3	2451.1	2473.3	2461.0	2461.0	2467.6	2467.4
12°	2402.9	2403.4	2409.1	2414.0	2413.1	2433.3	2455.3	2442.2	2442.7	2448.1	2447.6
12.5°	2384.6	2384.6	2387.4	2395.0	2395.0	2415.0	2435.8	2422.4	2425.4	2429.4	2429.1
13°	2365.4	2365.9	2366.9	2375.0	2377.0	2396.8	2416.0	2402.4	2407.6	2410.6	2407.6
13.5°	2346.1	2346.1	2345.6	2354.5	2357.7	2378.2	2396.8	2382.9	2388.8	2390.3	2385.6
14°	2326.6	2326.1	2323.4	2334.5	2338.2	2359.2	2374.0	2363.2	2369.8	2370.6	2362.7
14.5°	2306.6	2305.8	2301.1	2313.7	2318.7	2339.9	2352.3	2343.1	2350.8	2351.0	2339.9
15°	2286.6	2285.6	2279.4	2293.5	2298.7	2320.2	2330.3	2323.1	2331.5	2331.0	2315.0
15.5°	2266.3	2264.6	2255.7	2272.2	2278.4	2299.9	2307.1	2301.9	2311.0	2310.3	2290.5
16°	2244.3	2242.1	2233.0	2250.0	2257.4	2279.2	2282.9	2281.1	2291.3	2290.0	2265.6
16.5°	2222.6	2221.6	2209.5	2227.8	2235.9	2259.2	2259.4	2259.6	2270.0	2268.5	2241.9
17°	2199.9	2199.6	2186.3	2205.5	2213.7	2236.7	2235.2	2237.9	2248.0	2246.8	2216.7
17.5°	2175.9	2176.6	2162.6	2182.8	2190.2	2214.9	2211.2	2215.2	2224.8	2225.1	2192.5
18°	2150.0	2151.2	2138.8	2159.8	2166.0	2192.2	2187.8	2192.0	2200.9	2202.6	2167.5
18.5°	2123.0	2127.7	2115.1	2135.4	2141.8	2169.2	2164.3	2167.7	2176.4	2178.4	2143.5
19°	2095.6	2101.0	2090.9	2110.4	2117.1	2144.0	2140.3	2143.3	2152.2	2153.9	2119.6
19.5°	2069.7	2073.6	2066.2	2084.5	2091.9	2120.3	2116.6	2118.8	2127.0	2128.5	2095.4
20°	2042.7	2046.5	2042.3	2059.3	2066.2	2094.4	2092.4	2092.4	2101.0	2103.0	2070.7
20.5°	2016.6	2019.5	2018.0	2032.9	2040.3	2068.7	2067.9	2066.2	2074.9	2076.8	2045.7
21°	1990.9	1992.4	1993.1	2006.4	2013.8	2042.3	2043.2	2039.8	2048.7	2050.4	2020.0



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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°	1910.6	1911.8	1916.3	1925.2	1939.0	1961.5	1968.4	1957.8	1970.4	1968.9	1944.2
23°	1879.5	1885.1	1889.3	1897.7	1913.5	1934.3	1942.9	1929.9	1944.9	1941.5	1917.7
23.5°	1846.6	1856.7	1861.4	1868.3	1887.1	1908.6	1917.3	1901.9	1918.5	1913.8	1892.5
24°	1815.2	1826.1	1833.5	1842.2	1860.7	1879.9	1890.8	1874.0	1890.8	1885.9	1864.6
24.5°	1788.1	1794.0	1804.6	1816.0	1834.5	1851.5	1863.2	1846.4	1863.6	1858.0	1836.5
25°	1760.9	1760.4	1775.5	1789.3	1808.1	1823.1	1835.5	1818.4	1836.5	1829.8	1808.6
25.5°	1734.0	1729.8	1746.1	1758.9	1781.6	1794.5	1807.8	1790.5	1809.5	1801.9	1780.6
26°	1705.5	1701.8	1716.9	1728.5	1751.7	1766.1	1780.1	1762.9	1782.4	1774.0	1754.0
26.5°	1670.2	1674.9	1687.8	1697.6	1720.4	1740.1	1753.2	1730.7	1750.5	1741.9	1724.1
27°	1636.1	1647.2	1659.1	1670.5	1690.0	1713.7	1723.3	1702.1	1719.9	1714.7	1693.7
27.5°	1601.0	1618.6	1629.9	1644.5	1656.1	1685.3	1693.7	1675.4	1686.8	1685.3	1663.3
28°	1558.8	1582.3	1601.5	1618.3	1622.3	1652.2	1662.6	1646.5	1652.4	1652.4	1631.7
28.5°	1515.3	1547.7	1571.6	1586.7	1586.0	1620.6	1632.7	1614.9	1615.4	1621.8	1601.0
29°	1472.8	1513.1	1542.0	1555.8	1549.4	1587.7	1602.5	1585.0	1578.1	1588.2	1570.2
29.5°	1430.8	1473.1	1510.6	1525.2	1511.1	1553.1	1572.6	1552.1	1538.3	1553.1	1539.5
30°	1388.6	1431.1	1479.5	1492.8	1471.1	1517.3	1543.7	1518.0	1498.8	1517.5	1508.7
30.5°	1346.4	1388.8	1447.1	1458.5	1428.6	1479.7	1513.8	1483.5	1456.8	1480.5	1478.8
31°	1304.4	1347.3	1416.5	1423.2	1386.4	1442.7	1482.7	1447.6	1412.6	1443.2	1449.4
31.5°	1263.1	1306.1	1386.4	1387.4	1342.6	1403.9	1451.3	1411.1	1368.6	1403.7	1420.0
32°	1222.3	1266.1	1359.4	1350.5	1298.7	1364.4	1419.7	1372.5	1324.9	1364.1	1389.1
32.5°	1180.8	1225.3	1331.8	1312.0	1254.0	1323.6	1391.6	1333.0	1279.4	1323.1	1356.5
33°	1138.1	1185.3	1304.6	1273.2	1211.2	1280.9	1363.9	1293.0	1235.9	1281.9	1326.1
33.5°	1095.9	1146.3	1276.4	1233.0	1167.5	1238.6	1336.2	1252.0	1190.2	1238.6	1297.2
34°	1053.6	1106.5	1247.0	1192.2	1126.0	1196.4	1306.6	1209.7	1148.2	1194.7	1267.5
34.5°	1010.1	1066.5	1216.2	1150.9	1084.5	1154.4	1274.7	1167.5	1105.7	1152.2	1237.9
35°	966.4	1026.2	1189.0	1109.9	1045.2	1113.1	1247.8	1127.0	1065.2	1112.2	1211.5
35.5°	923.2	985.2	1157.9	1068.7	1004.9	1072.9	1221.3	1085.7	1022.5	1069.7	1184.8
36°	879.2	944.7	1120.8	1028.4	965.7	1033.4	1188.7	1045.5	982.5	1029.4	1152.4
36.5°	840.4	903.4	1084.5	989.6	926.9	994.6	1156.9	1005.9	942.2	988.6	1117.6
37°	801.6	865.1	1049.2	951.1	886.9	956.3	1126.5	966.7	903.2	951.8	1086.0
37.5°	762.8	826.8	1011.4	913.0	846.3	918.7	1092.4	928.9	862.4	912.8	1049.7
38°	723.8	788.5	973.8	873.3	807.1	881.7	1058.3	891.6	821.2	876.0	1011.6
38.5°	686.8	750.0	936.5	838.2	767.8	844.4	1024.5	855.0	781.4	838.9	972.8
39°	650.4	712.0	899.7	802.9	729.3	809.3	987.4	818.4	743.6	802.4	933.6
39.5°	613.6	676.4	862.7	767.8	691.2	771.7	950.4	781.1	704.5	765.3	893.3
40°	578.3	641.8	825.8	732.7	654.2	734.9	913.5	745.1	667.0	729.5	854.3
40.5°	542.2	606.7	789.0	697.6	618.3	698.4	875.5	709.2	629.9	693.4	815.2
41°	507.4	573.9	752.2	663.0	583.5	663.8	837.0	673.7	595.6	658.4	777.2
41.5°	473.3	540.3	715.4	629.2	549.7	628.7	797.7	638.6	560.5	622.8	739.6
42°	440.2	508.2	678.6	595.1	515.6	595.4	758.9	605.0	527.4	589.7	702.8
42.5°	408.4	476.5	642.5	563.7	483.7	561.8	721.6	572.4	494.3	557.6	666.8
43°	378.5	445.2	606.2	532.6	451.1	531.6	684.5	540.8	461.2	525.4	632.4
43.5°	349.6	414.0	570.2	502.5	419.5	499.5	649.0	510.1	429.8	494.6	598.3



TEST NUMBER: P776001

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	270.0	330.5	471.1	417.0	330.3	411.8	548.7	422.7	340.4	408.1	501.2
45.5°	245.3	304.3	441.2	390.1	303.1	383.4	517.0	395.3	313.0	380.9	470.9
46°	222.3	280.6	411.6	363.1	277.2	356.2	486.9	368.8	286.8	354.3	440.7
46.5°	200.3	257.7	384.1	337.5	252.7	330.0	457.3	342.1	261.9	328.3	411.3
47°	179.3	234.7	357.2	312.0	231.0	304.8	429.3	316.9	240.6	303.9	383.4
47.5°	160.1	213.2	331.5	288.3	209.2	279.9	400.9	293.2	219.4	280.1	356.5
48°	142.3	192.7	306.3	265.6	187.7	257.2	374.5	269.5	198.1	257.4	330.8
48.5°	126.0	173.4	282.6	243.6	166.3	237.2	348.1	247.5	177.1	237.9	306.3
49°	111.4	154.9	259.6	223.3	147.7	216.9	323.4	228.0	155.9	218.4	283.1
49.5°	98.1	138.3	237.9	204.3	130.9	196.9	298.4	208.5	138.6	199.1	260.4
50°	86.2	123.0	216.4	185.8	114.9	176.9	275.2	189.0	122.3	179.6	241.1
50.5°	77.3	108.7	197.4	167.0	100.3	156.9	253.0	169.5	107.5	160.1	222.1
51°	68.4	95.6	178.6	150.2	87.2	140.3	233.4	151.9	94.1	144.3	202.8
51.5°	59.5	84.2	161.6	134.1	75.1	125.0	213.7	135.9	81.5	129.0	183.5
52°	50.6	75.6	145.3	119.3	64.2	110.9	193.9	120.6	69.7	114.6	164.5
52.5°	43.7	66.9	130.7	105.2	54.1	97.1	174.2	106.7	59.0	101.0	148.5
53°	37.3	58.1	115.9	91.9	45.2	84.5	157.4	93.1	49.7	88.4	133.4
53.5°	31.1	49.7	103.8	81.5	37.1	73.1	141.8	81.0	41.0	76.6	119.6
54°	25.4	43.0	91.4	71.1	30.9	62.5	126.5	69.4	34.3	65.7	106.2
54.5°	19.5	36.8	82.0	61.0	24.7	52.9	112.2	59.3	27.7	56.3	94.1
55°	14.3	31.1	73.1	50.6	18.5	44.5	99.3	49.7	21.0	47.2	83.0
55.5°	10.4	25.4	64.0	40.5	12.6	36.1	87.0	41.0	14.3	39.0	72.9
56°	9.4	19.8	54.8	32.9	6.4	30.1	75.6	34.3	7.7	32.6	63.7
56.5°	8.4	14.8	45.7	25.9	5.9	24.0	65.0	27.9	5.4	26.2	55.1
57°	7.4	10.4	38.5	19.8	5.7	18.0	55.6	21.5	5.2	20.0	47.4
57.5°	6.4	9.1	32.9	13.6	5.4	12.1	46.9	15.1	4.9	13.6	40.8
58°	5.4	8.2	27.7	8.9	5.2	5.9	39.3	8.6	4.7	7.2	34.8
58.5°	5.2	7.2	23.2	7.9	4.9	5.2	32.9	5.2	4.4	5.2	29.4
59°	4.9	6.2	19.3	6.9	4.7	4.9	28.7	4.7	4.2	4.7	25.9
59.5°	4.9	4.9	16.1	5.9	4.4	4.7	24.5	4.4	4.0	4.7	22.5
60°	4.7	4.7	13.6	4.7	4.4	4.4	20.5	4.2	4.0	4.4	18.8
60.5°	4.4	4.7	11.4	4.7	4.2	4.4	16.3	4.2	3.7	4.2	15.3
61°	4.2	4.4	9.4	4.4	4.0	4.2	12.1	4.0	3.7	4.0	11.9
61.5°	4.2	4.2	8.2	4.2	4.0	4.0	9.9	3.7	3.5	4.0	9.6
62°	4.0	4.2	6.9	4.0	3.7	4.0	8.2	3.7	3.2	3.7	8.2
62.5°	3.7	4.0	5.7	4.0	3.7	3.7	6.7	3.5	3.2	3.7	6.7
63°	3.7	3.7	4.4	3.7	3.5	3.5	5.4	3.5	3.0	3.5	5.4
63.5°	3.5	3.7	4.0	3.7	3.2	3.5	4.4	3.2	3.0	3.2	4.7
64°	3.5	3.5	3.7	3.5	3.2	3.2	3.7	3.2	3.0	3.2	4.0
64.5°	3.2	3.5	3.5	3.5	3.0	3.2	3.5	3.0	2.7	3.0	3.5
65°	3.2	3.2	3.5	3.2	3.0	3.0	3.2	3.0	2.7	3.0	3.5
65.5°	3.0	3.2	3.2	3.2	3.0	3.0	3.0	2.7	2.5	3.0	3.2
66°	3.0	3.0	3.0	3.0	2.7	2.7	3.0	2.7	2.5	2.7	3.0





TEST NUMBER: P776001

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.5	2.7	2.7	2.7	2.5	2.5	2.7	2.5	2.2	2.5	2.7
68°	2.5	2.5	2.7	2.5	2.2	2.5	2.5	2.2	2.0	2.5	2.5
68.5°	2.2	2.5	2.5	2.5	2.2	2.2	2.5	2.2	2.0	2.2	2.5
69°	2.2	2.2	2.5	2.2	2.2	2.2	2.2	2.0	2.0	2.2	2.5
69.5°	2.2	2.2	2.2	2.2	2.0	2.2	2.2	2.0	1.7	2.0	2.2
70°	2.0	2.2	2.2	2.2	2.0	2.0	2.2	2.0	1.7	2.0	2.2
70.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.7	1.7	2.0	2.0
71°	1.7	2.0	2.0	2.0	1.7	2.0	2.0	1.7	1.7	1.7	2.0
71.5°	1.7	2.0	2.0	2.0	1.7	1.7	1.7	1.7	1.5	1.7	2.0
72°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.7	1.7
72.5°	1.5	1.7	1.7	1.7	1.5	1.7	1.7	1.5	1.5	1.5	1.7
73°	1.5	1.5	1.7	1.7	1.5	1.5	1.5	1.5	1.2	1.5	1.7
73.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.5	1.5
74°	1.2	1.5	1.5	1.5	1.2	1.5	1.5	1.2	1.2	1.5	1.5
74.5°	1.2	1.2	1.5	1.5	1.2	1.2	1.5	1.2	1.2	1.2	1.5
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.2	1.2
75.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.2	1.2
76°	1.0	1.2	1.2	1.2	1.0	1.2	1.2	1.0	1.0	1.0	1.2
76.5°	1.0	1.0	1.2	1.2	1.0	1.0	1.2	1.0	1.0	1.0	1.2
77°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	1.0	1.0
78°	0.7	0.7	1.0	1.0	0.7	1.0	1.0	0.7	0.7	0.7	1.0
78.5°	0.7	0.7	1.0	0.7	0.7	0.7	1.0	0.7	0.7	0.7	1.0
79°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.7
79.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.7	0.7
80°	0.5	0.5	0.7	0.7	0.5	0.7	0.7	0.5	0.5	0.5	0.7
80.5°	0.5	0.5	0.7	0.7	0.5	0.7	0.7	0.5	0.5	0.5	0.7
81°	0.5	0.5	0.7	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5
82°	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
82.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
83°	0.2	0.2	0.5	0.5	0.2	0.5	0.5	0.2	0.2	0.2	0.5
83.5°	0.2	0.2	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2
85°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
85.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
86°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
86.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.2
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: P776001

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQC-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: P776001

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4
0.5°	2657.9	2657.9	2656.4	2654.9	2656.6	2657.9
1°	2656.9	2656.6	2654.4	2652.4	2654.7	2655.2
1.5°	2655.2	2654.9	2652.2	2649.5	2651.4	2652.4
2°	2652.9	2652.2	2649.0	2645.3	2648.0	2648.2
2.5°	2649.5	2648.5	2644.5	2640.8	2643.5	2643.5
3°	2645.5	2644.3	2639.3	2634.9	2638.8	2638.8
3.5°	2641.1	2639.1	2633.7	2629.2	2633.4	2632.9
4°	2635.6	2633.7	2627.2	2622.0	2627.0	2626.5
4.5°	2629.2	2626.5	2619.8	2614.9	2619.6	2618.6
5°	2622.3	2618.8	2611.9	2606.2	2611.7	2609.9
5.5°	2614.1	2610.4	2602.8	2597.1	2602.3	2600.3
6°	2605.2	2601.0	2592.9	2587.7	2592.4	2589.7
6.5°	2595.1	2590.4	2582.3	2576.3	2581.3	2578.6
7°	2584.3	2578.8	2570.2	2564.2	2569.4	2566.0
7.5°	2571.9	2566.5	2557.8	2551.6	2557.1	2553.1
8°	2559.3	2552.6	2543.5	2537.8	2543.5	2539.0
8.5°	2545.2	2537.8	2528.7	2523.2	2529.7	2524.0
9°	2530.2	2521.3	2512.9	2507.9	2513.8	2506.9
9.5°	2514.1	2504.5	2496.1	2491.9	2497.5	2490.1
10°	2497.3	2487.2	2478.0	2473.3	2480.5	2474.1
10.5°	2480.0	2468.6	2459.3	2457.0	2463.5	2456.3
11°	2461.7	2450.4	2440.7	2437.8	2445.9	2438.7
11.5°	2443.4	2430.6	2421.2	2417.3	2427.6	2420.5
12°	2423.7	2411.1	2400.9	2395.5	2408.6	2402.9
12.5°	2404.4	2392.1	2380.4	2374.5	2389.6	2384.6
13°	2384.6	2372.5	2359.7	2352.0	2370.6	2365.4
13.5°	2364.6	2353.3	2339.4	2329.3	2350.8	2346.1
14°	2344.4	2333.5	2318.2	2305.3	2330.3	2326.6
14.5°	2323.9	2314.0	2297.9	2282.1	2310.0	2306.6
15°	2303.6	2292.7	2276.4	2257.9	2289.0	2286.6
15.5°	2282.9	2271.7	2254.5	2234.0	2267.3	2266.3
16°	2261.4	2250.8	2232.0	2209.7	2245.8	2244.3
16.5°	2239.4	2229.0	2210.0	2185.8	2223.8	2222.6
17°	2216.4	2206.0	2187.0	2161.3	2200.9	2199.9
17.5°	2194.2	2183.3	2163.5	2137.4	2177.9	2175.9
18°	2170.5	2158.4	2139.1	2113.2	2154.2	2150.0
18.5°	2146.7	2132.7	2114.6	2088.4	2129.5	2123.0
19°	2121.8	2107.5	2088.9	2064.0	2103.3	2095.6
19.5°	2095.9	2081.3	2062.8	2039.3	2076.1	2069.7
20°	2069.9	2054.1	2036.6	2013.1	2048.4	2042.7
20.5°	2042.7	2027.7	2008.9	1987.9	2020.8	2016.6
21°	2015.8	2000.3	1981.7	1962.2	1992.1	1990.9



TEST NUMBER: P776001

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1933.1	1918.5	1896.5	1884.4	1907.6	1910.6
23°	1903.9	1891.3	1867.6	1857.7	1879.5	1879.5
23.5°	1875.5	1863.4	1838.7	1830.5	1852.0	1846.6
24°	1846.8	1832.0	1810.3	1802.1	1822.9	1815.2
24.5°	1818.2	1798.9	1781.1	1772.2	1792.0	1788.1
25°	1789.8	1767.8	1750.7	1742.6	1759.4	1760.9
25.5°	1761.1	1740.9	1719.1	1713.0	1726.5	1734.0
26°	1728.0	1714.4	1685.8	1682.8	1693.2	1705.5
26.5°	1694.7	1681.6	1654.4	1651.4	1664.3	1670.2
27°	1663.5	1646.0	1626.5	1621.3	1636.1	1636.1
27.5°	1634.6	1613.6	1598.3	1589.7	1608.7	1601.0
28°	1606.7	1572.6	1565.2	1558.8	1579.8	1558.8
28.5°	1574.9	1530.9	1529.2	1528.4	1547.2	1515.3
29°	1537.8	1488.1	1496.8	1499.0	1511.9	1472.8
29.5°	1505.2	1446.2	1457.5	1469.4	1479.3	1430.8
30°	1465.2	1404.4	1416.3	1439.7	1441.0	1388.6
30.5°	1425.9	1363.4	1374.0	1409.1	1401.4	1346.4
31°	1383.4	1322.1	1333.0	1377.7	1360.7	1304.4
31.5°	1342.6	1280.9	1292.5	1343.4	1319.4	1263.1
32°	1302.9	1240.6	1252.7	1309.8	1278.9	1222.3
32.5°	1263.8	1200.6	1212.2	1277.9	1238.9	1180.8
33°	1222.8	1159.8	1174.4	1249.0	1200.6	1138.1
33.5°	1185.0	1117.8	1135.9	1224.3	1161.6	1095.9
34°	1145.8	1075.1	1097.8	1200.4	1123.0	1053.6
34.5°	1108.7	1032.1	1058.1	1168.7	1083.8	1010.1
35°	1068.7	989.1	1020.0	1139.6	1046.0	966.4
35.5°	1030.6	946.9	980.0	1109.7	1007.2	923.2
36°	990.6	904.9	940.7	1071.2	969.1	879.2
36.5°	952.8	865.6	900.7	1034.8	929.8	840.4
37°	911.8	826.3	862.9	996.5	892.0	801.6
37.5°	872.0	787.3	825.1	955.3	854.5	762.8
38°	832.5	748.0	787.6	913.8	816.7	723.8
38.5°	794.2	709.0	750.0	871.8	779.2	686.8
39°	756.7	673.2	712.5	834.7	741.6	650.4
39.5°	720.6	637.6	677.1	797.9	704.1	613.6
40°	684.8	601.3	644.0	760.9	670.0	578.3
40.5°	650.7	565.0	610.2	724.1	635.9	542.2
41°	617.6	531.1	577.8	689.2	603.3	507.4
41.5°	585.0	494.8	545.5	655.4	570.2	473.3
42°	552.9	463.2	513.6	622.3	538.8	440.2
42.5°	520.8	431.1	482.2	590.4	507.7	408.4
43°	489.4	401.2	451.1	558.3	478.0	378.5
43.5°	459.0	370.3	421.2	527.2	447.9	349.6



TEST NUMBER: P776001

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	372.5	290.0	338.4	436.8	362.4	270.0
45.5°	345.9	264.3	313.2	408.8	336.5	245.3
46°	320.4	241.1	289.3	381.2	311.0	222.3
46.5°	295.9	218.4	266.1	355.7	287.3	200.3
47°	272.5	196.6	243.8	330.8	264.1	179.3
47.5°	250.2	175.9	221.8	307.3	241.4	160.1
48°	230.0	158.1	201.3	284.3	220.6	142.3
48.5°	209.7	140.6	182.1	263.6	200.1	126.0
49°	189.5	125.0	163.8	243.3	180.8	111.4
49.5°	169.5	110.9	147.0	224.6	162.1	98.1
50°	151.9	97.8	130.9	205.5	146.2	86.2
50.5°	135.6	86.0	116.4	188.2	130.7	77.3
51°	121.3	77.3	103.3	171.2	115.9	68.4
51.5°	107.5	68.7	91.7	155.9	102.0	59.5
52°	94.6	60.3	83.0	141.3	90.4	50.6
52.5°	83.3	51.6	74.4	127.2	81.5	43.7
53°	73.1	44.7	65.7	113.9	72.6	37.3
53.5°	64.2	38.3	57.1	102.0	63.7	31.1
54°	56.1	32.1	48.4	90.9	54.8	25.4
54.5°	48.9	26.4	42.2	82.0	45.9	19.5
55°	42.5	20.8	36.1	73.4	39.5	14.3
55.5°	36.3	15.3	30.4	64.5	33.8	10.4
56°	31.6	11.4	24.5	55.8	28.2	9.4
56.5°	26.9	8.2	19.3	46.9	23.0	8.4
57°	22.2	7.7	14.1	40.3	18.0	7.4
57.5°	17.5	7.2	10.1	34.6	13.3	6.4
58°	12.8	6.9	9.1	29.4	9.4	5.4
58.5°	8.2	6.4	8.2	24.7	8.4	5.2
59°	6.4	6.2	7.4	20.8	7.4	4.9
59.5°	5.9	5.9	6.4	17.3	6.2	4.9
60°	5.7	5.4	5.7	14.3	5.2	4.7
60.5°	5.4	5.2	5.4	11.9	4.9	4.4
61°	5.2	4.9	5.2	9.9	4.7	4.2
61.5°	4.9	4.7	4.9	8.6	4.4	4.2
62°	4.7	4.7	4.7	7.4	4.2	4.0
62.5°	4.4	4.4	4.4	6.2	4.2	3.7
63°	4.2	4.2	4.2	4.9	4.0	3.7
63.5°	4.0	4.0	4.0	4.2	3.7	3.5
64°	4.0	3.7	4.0	3.7	3.7	3.5
64.5°	3.7	3.7	3.7	3.7	3.5	3.2
65°	3.5	3.5	3.5	3.5	3.5	3.2
65.5°	3.5	3.5	3.5	3.5	3.2	3.0
66°	3.2	3.2	3.2	3.2	3.2	3.0



TEST NUMBER: P776001

CATALOG NUMBER: HCDJBL1525CSD-HCD4TSQC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	3.0	2.7	3.0	2.7	2.7	2.5
68°	2.7	2.7	2.7	2.7	2.7	2.5
68.5°	2.7	2.5	2.7	2.5	2.5	2.2
69°	2.5	2.5	2.5	2.5	2.5	2.2
69.5°	2.5	2.5	2.5	2.5	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	2.0
70.5°	2.2	2.2	2.2	2.2	2.2	2.0
71°	2.0	2.0	2.0	2.0	2.0	1.7
71.5°	2.0	2.0	2.0	2.0	2.0	1.7
72°	2.0	2.0	2.0	2.0	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.5
73°	1.7	1.7	1.7	1.7	1.7	1.5
73.5°	1.7	1.7	1.7	1.7	1.5	1.5
74°	1.5	1.5	1.5	1.5	1.5	1.2
74.5°	1.5	1.5	1.5	1.5	1.5	1.2
75°	1.5	1.5	1.5	1.5	1.2	1.2
75.5°	1.2	1.2	1.2	1.2	1.2	1.2
76°	1.2	1.2	1.2	1.2	1.2	1.0
76.5°	1.2	1.2	1.2	1.2	1.2	1.0
77°	1.2	1.0	1.2	1.2	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0
78°	1.0	1.0	1.0	1.0	1.0	0.7
78.5°	1.0	1.0	1.0	1.0	0.7	0.7
79°	0.7	0.7	1.0	1.0	0.7	0.7
79.5°	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.5
80.5°	0.7	0.7	0.7	0.7	0.5	0.5
81°	0.7	0.7	0.7	0.7	0.5	0.5
81.5°	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.2	0.2
83°	0.5	0.5	0.5	0.5	0.2	0.2
83.5°	0.5	0.5	0.5	0.5	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.0	0.2
85.5°	0.2	0.2	0.2	0.2	0.0	0.0
86°	0.2	0.2	0.2	0.2	0.0	0.0
86.5°	0.2	0.2	0.2	0.2	0.0	0.0
87°	0.0	0.2	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: P776001  
CATALOG NUMBER: HCDJBL1525CSD-HCD4TSQC-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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Scaled Data Report





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

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21.5°	1965.7	1965.4	1967.2	1979.3	1987.9	2016.1	2018.5	2012.9	2022.5	2023.5	1995.3
22°	1939.2	1937.5	1942.0	1952.6	1963.7	1988.6	1993.1	1986.7	1996.6	1996.1	1969.9



44°	321.6	385.1	535.6	472.6	388.8	469.9	613.6	479.5	399.5	464.4	565.7
44.5°	294.7	357.2	502.2	444.9	358.7	440.2	580.3	450.8	369.8	436.0	532.9



66.5°	2.7	3.0	3.0	3.0	2.7	2.7	2.7	2.5	2.5	2.7	3.0
67°	2.7	2.7	2.7	2.7	2.5	2.7	2.7	2.5	2.2	2.5	2.7



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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21.5°	1988.6	1972.1	1953.6	1936.0	1964.2	1965.7
22°	1960.7	1945.4	1925.4	1910.6	1936.0	1939.2



44°	429.3	342.9	392.5	496.0	417.7	321.6
44.5°	400.0	316.2	365.4	466.4	389.1	294.7

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66.5°	3.2	3.0	3.2	3.0	3.0	2.7
67°	3.0	3.0	3.0	3.0	3.0	2.7

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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)