

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: P776104

Luminaire Tested: HCDJBS1525CSD-HCD6TSQC-2500lm-5000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776104  
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-HCD6TSQC-2500lm-5000K  
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

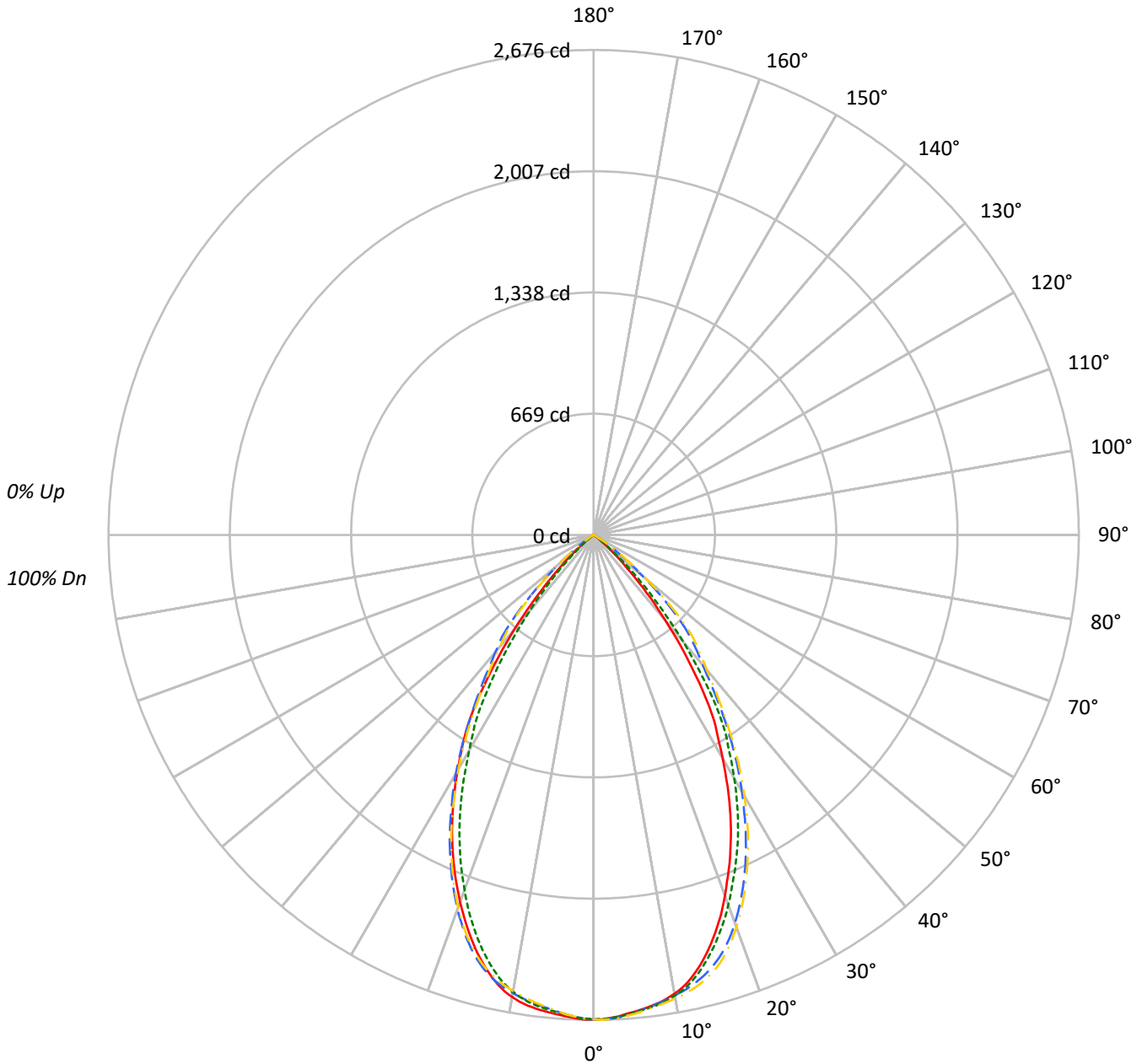
Lumens per Lamp: N/A  
Luminaire Lumens: 2916.6 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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



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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	100	100	99	97	97	96	95	93					93			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79					79			
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72					72			
5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67					67			
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	71	66	63	62					62			
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57					57			
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53					53			
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49					49			
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46					46			

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

	0°	90°	180°	270°
0°	115135	115135	115135	115135
5°	114058	114304	114473	113902
10°	112364	112863	113199	111949
15°	106809	108008	107799	105628
20°	97040	99546	98717	95500
25°	85094	89227	87816	83122
30°	70637	77050	74585	68365
35°	55068	63531	59221	51636
40°	34712	42980	38197	31334
45°	16793	22949	19150	14358
50°	5097	8038	6028	4093
55°	676	623	601	525
60°	465	491	491	396
65°	397	397	418	346
70°	327	352	352	264
75°	299	299	299	250
80°	248	248	248	198
85°	148	247	148	148

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 44504 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.1	8.6
10°-20°	677.6	23.2
20°-30°	856.6	29.4
30°-40°	723.8	24.8
40°-50°	349.4	12.0
50°-60°	52.4	1.8
60°-70°	4.4	0.2
70°-80°	2.0	0.1
80°-90°	0.4	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°	1784.3	61.2
0°-40°	2508.0	86.0
0°-60°	2909.8	99.8
0°-90°	2916.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2674	2674	2674	2674	2674	
5°	2639	2645	2649	2635	2639	250
15°	2396	2423	2418	2370	2396	667
25°	1791	1878	1848	1750	1791	815
35°	1048	1209	1127	982	1048	641
45°	276	377	314	236	276	225
55°	9	8	8	7	9	18
65°	4	4	4	3	4	4
75°	2	2	2	2	2	2
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°	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1
0.5°	2674.3	2674.6	2674.3	2674.6	2671.8	2673.6	2675.4	2676.9	2675.1	2673.3	2672.5
1°	2672.8	2674.1	2674.1	2674.6	2671.5	2674.1	2675.6	2676.4	2674.6	2671.0	2670.0
1.5°	2670.2	2672.5	2673.1	2674.1	2670.5	2673.1	2675.4	2675.1	2672.8	2668.4	2666.9
2°	2667.4	2670.5	2671.5	2673.1	2668.2	2671.8	2674.1	2672.5	2669.7	2664.8	2663.0
2.5°	2663.3	2668.2	2669.2	2671.0	2665.6	2669.4	2671.8	2669.7	2666.9	2660.7	2658.6
3°	2659.4	2664.3	2665.8	2668.4	2662.5	2666.6	2668.7	2665.8	2663.3	2656.0	2653.2
3.5°	2654.0	2660.2	2661.7	2664.8	2658.6	2662.7	2664.8	2662.5	2659.4	2651.4	2648.0
4°	2648.6	2655.3	2657.1	2660.4	2654.0	2659.1	2660.4	2658.1	2655.3	2646.5	2641.8
4.5°	2643.4	2649.6	2651.6	2655.8	2649.6	2654.2	2656.0	2654.2	2652.4	2641.6	2635.9
5°	2639.0	2644.2	2645.5	2650.6	2644.7	2649.3	2650.9	2650.6	2648.6	2636.9	2630.0
5.5°	2634.1	2639.0	2639.5	2644.9	2640.3	2644.4	2645.7	2646.5	2644.7	2632.0	2624.6
6°	2628.9	2634.1	2632.6	2638.7	2635.7	2639.5	2640.6	2642.1	2640.6	2626.9	2619.7
6.5°	2623.5	2629.2	2626.4	2632.8	2630.7	2634.6	2634.9	2637.5	2637.2	2621.7	2613.7
7°	2618.6	2623.5	2620.2	2627.1	2625.6	2629.2	2629.7	2633.1	2632.6	2615.8	2607.8
7.5°	2611.9	2617.6	2613.7	2620.9	2620.2	2623.5	2624.3	2627.9	2627.4	2609.3	2601.6
8°	2606.0	2611.7	2607.8	2614.5	2614.0	2617.8	2619.1	2622.8	2621.7	2602.6	2595.4
8.5°	2598.2	2604.9	2601.1	2607.8	2607.5	2611.1	2613.7	2616.8	2615.5	2595.4	2589.2
9°	2589.5	2598.0	2594.4	2600.8	2599.8	2604.2	2608.3	2610.1	2608.0	2587.4	2582.5
9.5°	2579.9	2589.7	2587.9	2593.1	2591.3	2597.2	2602.6	2603.4	2599.0	2578.4	2575.0
10°	2570.1	2580.7	2580.7	2585.3	2581.5	2589.0	2597.0	2594.4	2589.2	2568.1	2567.0
10.5°	2559.5	2571.4	2573.5	2576.8	2571.7	2579.7	2590.8	2585.1	2578.9	2557.7	2559.8
11°	2546.9	2561.6	2566.0	2567.3	2560.6	2569.6	2584.1	2574.2	2566.5	2546.6	2551.0
11.5°	2532.5	2550.8	2558.3	2557.7	2548.4	2559.5	2576.8	2563.9	2553.1	2533.5	2541.2
12°	2517.2	2538.9	2549.2	2546.9	2534.5	2548.7	2569.1	2551.5	2537.4	2519.3	2530.4
12.5°	2500.5	2525.2	2539.9	2535.8	2518.8	2535.8	2561.6	2538.1	2520.3	2503.6	2519.0
13°	2481.9	2510.3	2529.9	2523.4	2502.0	2522.6	2552.3	2523.2	2502.3	2486.0	2505.6
13.5°	2461.8	2494.3	2519.0	2510.8	2483.7	2507.2	2542.3	2507.2	2482.9	2468.0	2491.9
14°	2441.1	2477.2	2507.7	2496.3	2464.3	2491.2	2530.9	2489.6	2462.0	2448.9	2476.5
14.5°	2419.5	2458.9	2495.0	2480.1	2444.2	2473.4	2519.0	2470.8	2440.6	2428.7	2460.5
15°	2396.2	2439.1	2481.4	2462.5	2423.1	2455.1	2506.7	2451.7	2418.4	2407.6	2442.2
15.5°	2371.7	2418.9	2466.9	2444.7	2401.4	2436.0	2492.7	2431.8	2395.2	2386.9	2423.1
16°	2346.7	2397.3	2451.4	2426.2	2378.4	2416.6	2477.2	2411.5	2371.2	2364.0	2402.2
16.5°	2320.6	2375.1	2433.9	2406.0	2355.2	2396.2	2460.2	2389.5	2346.7	2340.8	2379.7
17°	2294.6	2351.9	2415.8	2385.1	2331.2	2374.6	2441.6	2366.3	2320.9	2316.5	2356.0
17.5°	2266.5	2327.6	2396.2	2363.7	2306.5	2352.6	2421.5	2343.3	2293.6	2292.5	2332.8
18°	2239.1	2303.6	2375.1	2342.1	2280.1	2330.2	2399.8	2319.6	2267.0	2266.5	2306.5
18.5°	2210.7	2278.3	2352.9	2319.1	2254.1	2307.0	2377.4	2294.8	2239.6	2240.1	2279.6
19°	2181.1	2252.3	2328.9	2295.6	2227.8	2283.0	2353.1	2269.3	2211.8	2213.6	2252.5
19.5°	2149.9	2225.7	2304.6	2270.8	2200.9	2258.5	2328.4	2243.8	2183.1	2187.5	2226.0
20°	2117.9	2197.8	2278.8	2246.9	2172.6	2233.2	2302.8	2217.2	2154.5	2158.9	2195.5
20.5°	2085.9	2170.7	2252.3	2221.8	2143.4	2207.6	2276.0	2190.1	2125.1	2130.5	2166.1
21°	2052.6	2141.9	2224.9	2196.3	2114.0	2180.6	2248.1	2162.8	2094.9	2102.6	2135.7



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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°	1959.2	2049.5	2138.8	2115.5	2025.8	2097.5	2162.5	2078.9	2004.6	2013.4	2042.5
23°	1926.4	2018.3	2108.6	2087.2	1997.9	2067.8	2131.5	2050.0	1973.4	1984.0	2009.8
23.5°	1892.4	1987.6	2077.6	2058.8	1968.0	2038.4	2101.6	2021.1	1942.2	1952.2	1977.0
24°	1859.4	1957.9	2046.1	2029.4	1938.0	2009.5	2070.4	1991.4	1910.9	1920.5	1944.2
24.5°	1825.6	1927.5	2014.7	2000.0	1908.1	1981.9	2038.7	1960.0	1879.7	1888.5	1911.5
25°	1791.2	1895.7	1982.4	1971.1	1878.2	1951.2	2005.4	1928.8	1848.5	1856.8	1878.7
25.5°	1756.2	1862.7	1949.9	1942.4	1848.3	1920.8	1972.9	1897.3	1815.2	1826.6	1845.9
26°	1720.6	1829.7	1915.9	1912.2	1817.0	1890.1	1940.6	1865.8	1782.2	1793.3	1808.8
26.5°	1684.7	1795.6	1881.8	1880.8	1784.5	1859.4	1908.1	1834.6	1747.6	1759.8	1774.0
27°	1648.6	1762.3	1847.7	1849.8	1752.0	1831.2	1875.6	1801.3	1713.6	1726.0	1737.6
27.5°	1611.2	1727.5	1812.4	1818.8	1719.3	1799.5	1843.1	1767.8	1679.0	1692.2	1701.7
28°	1573.5	1693.7	1777.8	1786.9	1686.2	1766.5	1807.2	1734.5	1643.9	1658.9	1664.3
28.5°	1535.3	1657.9	1741.2	1755.1	1653.2	1734.0	1772.7	1700.7	1608.1	1624.8	1629.0
29°	1497.4	1623.8	1705.3	1721.6	1619.2	1701.2	1736.3	1665.9	1573.0	1589.7	1592.8
29.5°	1459.2	1587.7	1669.7	1688.0	1585.1	1669.7	1699.4	1631.3	1536.1	1556.0	1557.0
30°	1420.8	1553.4	1635.4	1656.3	1549.8	1635.4	1662.5	1596.7	1500.2	1521.1	1519.1
30.5°	1385.2	1516.2	1599.8	1622.5	1514.7	1602.4	1627.9	1562.1	1465.1	1486.3	1482.7
31°	1350.1	1480.4	1563.7	1590.8	1480.6	1568.6	1592.3	1527.3	1432.4	1450.7	1444.5
31.5°	1312.1	1443.5	1527.8	1557.0	1448.4	1537.1	1555.7	1491.7	1395.7	1416.4	1406.8
32°	1278.9	1407.3	1492.7	1523.4	1413.0	1502.0	1518.8	1457.4	1364.5	1383.1	1368.4
32.5°	1250.7	1370.5	1456.4	1488.6	1378.7	1469.0	1481.9	1422.3	1329.7	1351.4	1330.5
33°	1218.2	1336.9	1419.0	1456.4	1351.6	1434.7	1443.7	1390.3	1295.4	1317.1	1292.5
33.5°	1178.0	1303.1	1382.1	1423.1	1319.4	1404.8	1407.1	1356.0	1256.4	1286.4	1254.9
34°	1138.3	1267.8	1345.7	1390.3	1284.3	1369.9	1369.4	1322.7	1215.4	1253.8	1218.2
34.5°	1092.9	1236.3	1308.8	1357.6	1248.2	1335.4	1332.3	1293.6	1172.6	1221.1	1181.6
35°	1047.7	1209.2	1272.7	1324.8	1208.7	1307.5	1295.4	1258.2	1126.7	1185.5	1145.2
35.5°	1003.3	1178.5	1235.0	1291.3	1168.2	1280.4	1259.5	1225.5	1079.7	1147.6	1110.1
36°	960.2	1140.3	1198.4	1265.2	1123.3	1244.6	1223.9	1188.6	1032.5	1106.3	1075.3
36.5°	912.8	1103.7	1163.0	1232.4	1077.9	1213.1	1189.3	1148.8	984.5	1065.0	1042.0
37°	870.2	1060.3	1127.7	1199.9	1030.2	1175.7	1154.3	1107.8	938.8	1021.9	1009.5
37.5°	827.9	1018.6	1093.4	1166.6	985.0	1137.7	1121.0	1065.0	894.5	978.3	978.3
38°	785.3	977.3	1058.8	1129.5	938.6	1096.5	1088.7	1021.1	850.3	934.7	947.3
38.5°	743.0	937.5	1026.3	1090.8	894.5	1055.7	1057.5	975.7	808.3	891.1	918.5
39°	699.7	897.0	993.8	1049.3	850.9	1012.1	1027.6	932.4	766.0	849.6	891.1
39.5°	657.9	856.5	962.8	1006.7	808.0	968.8	997.7	889.3	722.9	809.3	867.1
40°	617.6	816.0	934.7	964.1	764.7	925.4	969.5	848.0	679.6	770.4	842.6
40.5°	577.6	775.5	911.0	919.7	722.4	883.6	943.0	808.0	637.2	732.2	817.3
41°	540.2	735.3	887.2	879.2	680.1	841.6	920.0	768.3	595.7	692.7	801.1
41.5°	503.9	695.0	863.5	838.5	638.0	801.8	896.8	729.1	555.5	654.3	778.9
42°	467.7	655.3	839.8	798.0	596.5	762.1	871.0	690.1	517.0	615.6	752.6
42.5°	431.9	615.6	816.0	757.5	555.7	723.9	851.6	650.9	480.6	577.6	726.8
43°	397.8	578.4	792.6	719.0	517.5	683.9	835.4	611.4	444.8	540.5	693.0
43.5°	365.1	542.8	767.8	680.6	480.4	644.2	810.1	572.2	410.5	504.4	658.7



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CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	275.8	438.6	685.0	566.0	376.9	530.9	730.9	465.7	314.5	404.3	554.2
45.5°	248.2	405.6	654.8	529.7	344.9	494.8	699.2	432.9	284.8	372.3	519.1
46°	222.1	373.3	622.5	494.1	314.2	460.3	665.6	399.9	260.1	341.3	485.0
46.5°	197.4	342.1	590.3	460.3	284.0	427.5	630.5	368.4	235.3	311.7	451.7
47°	173.6	311.9	557.3	427.2	259.0	394.2	593.1	338.0	210.5	284.3	419.8
47.5°	151.2	283.3	524.0	395.8	233.7	362.7	556.5	308.6	185.8	259.8	387.8
48°	130.8	255.4	489.4	365.1	208.7	332.0	521.4	280.2	161.2	235.3	357.8
48.5°	112.7	230.1	455.1	334.9	183.7	302.9	487.3	256.2	141.1	210.8	328.7
49°	96.7	204.8	421.0	305.5	158.7	273.5	454.3	232.2	122.8	186.5	300.6
49.5°	86.2	181.1	389.8	277.6	138.5	248.4	422.1	208.2	105.8	162.0	273.5
50°	76.1	158.7	358.6	251.3	120.0	223.2	391.6	184.2	90.0	142.2	249.7
50.5°	65.8	138.5	330.0	226.3	102.7	198.1	362.2	160.2	76.4	123.1	226.0
51°	55.5	119.5	301.1	201.5	86.9	173.1	334.1	139.3	63.2	106.0	202.3
51.5°	45.4	102.4	274.8	178.5	73.0	151.7	305.5	121.3	51.9	89.5	178.3
52°	37.7	87.2	248.7	157.4	60.1	131.6	277.6	103.5	43.3	75.1	158.4
52.5°	30.4	76.9	225.0	137.5	48.2	112.7	253.6	88.0	34.8	61.7	139.3
53°	23.2	66.6	201.8	118.7	40.2	95.7	229.6	72.8	26.3	50.3	121.8
53.5°	16.3	56.2	179.3	101.6	32.2	80.0	205.4	60.1	17.5	41.8	105.5
54°	11.1	45.9	158.1	85.7	24.0	66.3	181.4	48.2	9.3	33.3	91.1
54.5°	9.8	38.4	139.6	73.0	16.0	53.7	157.4	40.2	8.5	24.8	77.7
55°	9.0	31.0	121.5	60.4	8.3	44.6	138.5	32.0	8.0	16.5	65.5
55.5°	8.0	24.0	105.5	47.7	7.7	35.6	119.7	24.0	7.7	8.5	55.0
56°	7.2	17.0	90.8	35.3	7.5	26.8	102.7	15.7	7.5	7.7	45.7
56.5°	7.0	11.4	80.0	25.5	7.2	18.1	86.9	7.7	7.2	7.5	37.7
57°	6.7	10.3	69.1	17.0	7.0	9.0	73.0	7.2	7.0	7.2	32.8
57.5°	6.4	9.3	58.6	10.1	6.7	7.5	60.1	7.2	6.7	7.0	27.9
58°	6.2	8.3	47.7	9.0	6.4	7.2	49.0	7.0	6.7	6.7	23.0
58.5°	5.9	7.5	36.9	8.0	6.2	7.0	39.5	6.7	6.4	6.4	18.3
59°	5.9	6.4	29.9	7.2	5.9	6.7	34.1	6.4	6.2	6.2	13.4
59.5°	5.7	6.2	24.3	6.2	5.9	6.4	28.6	6.2	5.9	6.2	10.8
60°	5.4	5.9	19.6	5.9	5.7	6.2	23.2	5.9	5.7	5.9	9.0
60.5°	5.2	5.9	16.0	5.9	5.4	5.9	18.1	5.9	5.7	5.7	7.5
61°	5.2	5.7	12.9	5.7	5.2	5.9	12.6	5.7	5.4	5.4	6.4
61.5°	4.9	5.4	10.6	5.4	5.2	5.7	10.3	5.4	5.2	5.4	5.7
62°	4.9	5.4	9.5	5.4	4.9	5.4	8.5	5.4	4.9	5.2	5.4
62.5°	4.6	5.2	8.5	5.2	4.6	5.4	7.2	5.2	4.9	4.9	5.2
63°	4.4	4.9	7.2	4.9	4.6	5.2	6.2	4.9	4.6	4.9	4.9
63.5°	4.4	4.9	6.2	4.9	4.4	4.9	5.7	4.9	4.6	4.6	4.6
64°	4.1	4.6	5.2	4.6	4.4	4.9	5.2	4.6	4.4	4.4	4.6
64.5°	4.1	4.4	4.9	4.6	4.1	4.6	5.2	4.6	4.1	4.4	4.4
65°	3.9	4.4	4.9	4.4	3.9	4.4	4.9	4.4	4.1	4.1	4.4
65.5°	3.9	4.1	4.6	4.1	3.9	4.4	4.6	4.1	3.9	4.1	4.1
66°	3.6	4.1	4.4	4.1	3.6	4.1	4.6	4.1	3.9	3.9	4.1





TEST NUMBER: P776104

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	3.4	3.6	4.1	3.6	3.4	3.9	4.1	3.6	3.4	3.6	3.6
68°	3.1	3.6	3.9	3.6	3.1	3.6	3.9	3.6	3.4	3.4	3.4
68.5°	3.1	3.4	3.9	3.4	3.1	3.4	3.9	3.4	3.1	3.1	3.4
69°	2.8	3.4	3.6	3.4	2.8	3.4	3.6	3.4	3.1	3.1	3.1
69.5°	2.8	3.1	3.6	3.4	2.8	3.1	3.6	3.1	2.8	2.8	3.1
70°	2.6	3.1	3.4	3.1	2.8	3.1	3.4	3.1	2.8	2.8	2.8
70.5°	2.6	2.8	3.4	3.1	2.6	3.1	3.4	2.8	2.6	2.8	2.8
71°	2.6	2.8	3.1	2.8	2.6	2.8	3.1	2.8	2.6	2.6	2.6
71.5°	2.3	2.6	3.1	2.8	2.3	2.8	3.1	2.6	2.3	2.6	2.6
72°	2.3	2.6	2.8	2.6	2.3	2.6	2.8	2.6	2.3	2.3	2.3
72.5°	2.1	2.3	2.8	2.6	2.3	2.6	2.8	2.6	2.3	2.3	2.3
73°	2.1	2.3	2.6	2.6	2.1	2.3	2.6	2.3	2.1	2.1	2.3
73.5°	2.1	2.3	2.6	2.3	2.1	2.3	2.6	2.3	2.1	2.1	2.1
74°	1.8	2.1	2.3	2.3	2.1	2.3	2.3	2.1	2.1	2.1	2.1
74.5°	1.8	2.1	2.3	2.1	1.8	2.1	2.3	2.1	1.8	1.8	1.8
75°	1.8	1.8	2.1	2.1	1.8	2.1	2.3	2.1	1.8	1.8	1.8
75.5°	1.5	1.8	2.1	2.1	1.8	2.1	2.1	1.8	1.8	1.8	1.5
76°	1.5	1.8	2.1	1.8	1.8	1.8	2.1	1.8	1.5	1.5	1.5
76.5°	1.5	1.5	1.8	1.8	1.5	1.8	1.8	1.8	1.5	1.5	1.5
77°	1.5	1.5	1.8	1.8	1.5	1.8	1.8	1.5	1.5	1.5	1.3
77.5°	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3
78°	1.3	1.3	1.5	1.5	1.3	1.5	1.5	1.3	1.3	1.3	1.0
78.5°	1.3	1.3	1.3	1.5	1.3	1.5	1.5	1.3	1.3	1.3	1.0
79°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0
79.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	0.8
80°	1.0	1.0	1.0	1.3	1.0	1.3	1.3	1.0	1.0	1.0	0.8
80.5°	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	0.8	0.8
81°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
81.5°	0.8	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.5
82°	0.8	0.8	0.8	1.0	0.8	1.0	0.8	0.8	0.8	0.5	0.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5
83°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5
83.5°	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.3	0.5
84°	0.5	0.5	0.5	0.8	0.5	0.8	0.5	0.5	0.5	0.3	0.3
84.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.3	0.3
85°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
85.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
86°	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.0	0.3
86.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
87°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776104  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-5000K

**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: P776104

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1
0.5°	2671.5	2670.2	2671.5	2672.8	2675.4	2674.3
1°	2668.4	2668.4	2669.2	2670.0	2673.3	2672.8
1.5°	2665.3	2665.6	2666.1	2666.9	2671.3	2670.2
2°	2661.4	2662.2	2662.0	2663.0	2668.4	2667.4
2.5°	2657.1	2658.1	2657.8	2658.1	2663.8	2663.3
3°	2652.2	2653.7	2652.9	2652.9	2659.6	2659.4
3.5°	2647.5	2648.6	2647.3	2647.3	2654.0	2654.0
4°	2642.6	2644.4	2641.8	2641.1	2648.0	2648.6
4.5°	2638.0	2640.0	2636.4	2633.8	2642.1	2643.4
5°	2632.8	2635.4	2631.3	2626.6	2636.2	2639.0
5.5°	2627.1	2631.0	2625.6	2619.9	2630.5	2634.1
6°	2620.9	2626.1	2619.7	2613.5	2624.8	2628.9
6.5°	2615.0	2620.7	2613.5	2607.3	2618.6	2623.5
7°	2608.0	2614.8	2607.0	2601.1	2612.2	2618.6
7.5°	2600.8	2608.3	2599.5	2594.4	2605.2	2611.9
8°	2592.8	2601.1	2591.5	2587.1	2598.2	2606.0
8.5°	2583.8	2592.6	2583.0	2579.9	2590.5	2598.2
9°	2573.5	2582.2	2573.7	2572.2	2582.2	2589.5
9.5°	2562.9	2571.7	2563.7	2564.7	2573.0	2579.9
10°	2551.0	2560.6	2552.6	2556.2	2563.7	2570.1
10.5°	2537.9	2546.9	2540.2	2547.4	2553.6	2559.5
11°	2523.9	2532.7	2527.3	2538.1	2542.8	2546.9
11.5°	2509.0	2516.5	2513.4	2527.8	2531.2	2532.5
12°	2492.7	2498.9	2497.6	2516.7	2518.3	2517.2
12.5°	2475.2	2480.1	2480.9	2504.3	2503.6	2500.5
13°	2456.6	2460.7	2462.5	2491.7	2488.1	2481.9
13.5°	2437.0	2439.6	2443.7	2478.0	2471.6	2461.8
14°	2416.6	2417.1	2423.8	2463.3	2453.5	2441.1
14.5°	2395.7	2393.9	2402.9	2447.3	2434.9	2419.5
15°	2373.5	2369.7	2380.8	2429.5	2414.3	2396.2
15.5°	2350.8	2344.6	2357.5	2410.7	2393.1	2371.7
16°	2326.8	2318.8	2333.8	2390.3	2371.0	2346.7
16.5°	2302.3	2291.5	2309.3	2368.9	2348.0	2320.6
17°	2277.3	2264.1	2284.8	2346.4	2324.5	2294.6
17.5°	2251.8	2236.0	2258.7	2321.9	2299.2	2266.5
18°	2224.9	2207.9	2231.6	2297.2	2273.9	2239.1
18.5°	2199.4	2178.0	2204.3	2271.1	2247.9	2210.7
19°	2171.3	2147.3	2176.9	2244.0	2221.3	2181.1
19.5°	2143.4	2116.1	2148.6	2215.9	2194.0	2149.9
20°	2113.5	2084.3	2119.9	2187.0	2165.8	2117.9
20.5°	2084.6	2051.3	2088.7	2155.3	2137.5	2085.9
21°	2054.1	2019.3	2058.8	2125.9	2107.3	2052.6

TEST NUMBER: P776104

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1962.3	1922.0	1963.8	2028.9	2012.6	1959.2
23°	1931.6	1888.8	1932.9	1997.6	1980.1	1926.4
23.5°	1900.6	1855.2	1901.9	1963.3	1948.9	1892.4
24°	1869.7	1820.4	1868.1	1929.0	1918.7	1859.4
24.5°	1838.7	1785.3	1834.3	1892.9	1887.5	1825.6
25°	1804.4	1749.7	1800.5	1859.4	1853.2	1791.2
25.5°	1769.3	1714.1	1765.7	1823.2	1819.6	1756.2
26°	1734.5	1677.2	1730.9	1786.3	1785.0	1720.6
26.5°	1699.7	1641.1	1696.0	1747.1	1751.5	1684.7
27°	1663.8	1603.2	1661.2	1711.8	1715.4	1648.6
27.5°	1627.4	1565.0	1624.3	1674.1	1680.3	1611.2
28°	1591.3	1526.5	1587.9	1635.7	1643.9	1573.5
28.5°	1554.4	1487.8	1551.8	1598.5	1608.1	1535.3
29°	1517.0	1448.9	1514.7	1561.9	1571.4	1497.4
29.5°	1479.3	1411.2	1477.5	1526.3	1536.1	1459.2
30°	1441.9	1375.1	1439.9	1489.9	1498.7	1420.8
30.5°	1405.0	1340.0	1402.7	1453.0	1461.8	1385.2
31°	1367.9	1302.1	1365.8	1415.1	1424.4	1350.1
31.5°	1333.3	1269.3	1329.2	1376.6	1388.0	1312.1
32°	1298.7	1239.7	1295.1	1338.2	1350.8	1278.9
32.5°	1262.6	1200.7	1261.1	1300.0	1314.2	1250.7
33°	1231.1	1163.5	1224.2	1262.4	1280.9	1218.2
33.5°	1202.0	1118.1	1194.8	1223.7	1246.1	1178.0
34°	1164.6	1071.7	1164.8	1185.5	1210.8	1138.3
34.5°	1130.0	1026.8	1126.4	1147.6	1182.1	1092.9
35°	1087.4	982.4	1090.0	1110.4	1153.5	1047.7
35.5°	1044.6	940.4	1046.7	1074.0	1117.6	1003.3
36°	1002.3	896.5	1004.1	1039.2	1082.8	960.2
36.5°	961.0	852.4	963.1	1004.1	1042.3	912.8
37°	920.0	808.3	921.0	971.1	1000.2	870.2
37.5°	879.8	764.4	881.3	939.1	957.7	827.9
38°	839.5	720.3	841.3	911.5	912.5	785.3
38.5°	798.2	677.2	801.6	883.9	875.1	743.0
39°	756.4	635.2	761.9	856.3	837.4	699.7
39.5°	714.9	595.7	721.6	828.7	800.0	657.9
40°	673.9	557.5	680.3	801.1	762.4	617.6
40.5°	634.9	520.9	641.1	778.1	722.1	577.6
41°	597.0	483.7	602.2	758.2	682.4	540.2
41.5°	560.4	448.1	566.3	736.3	642.7	503.9
42°	524.5	412.3	530.7	716.2	604.7	467.7
42.5°	489.4	380.5	497.2	695.0	568.6	431.9
43°	455.1	348.8	463.4	662.8	533.8	397.8
43.5°	422.1	318.6	430.1	632.3	499.5	365.1



TEST NUMBER: P776104

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	327.9	235.8	336.4	530.4	402.0	275.8
45.5°	298.5	210.5	307.3	499.5	370.5	248.2
46°	270.6	186.5	279.9	468.5	340.5	222.1
46.5°	245.9	163.3	253.9	437.8	311.4	197.4
47°	221.1	142.2	228.8	407.1	283.8	173.6
47.5°	196.6	122.5	204.1	379.0	257.5	151.2
48°	171.8	105.5	181.4	350.1	231.9	130.8
48.5°	150.4	90.6	160.2	322.5	207.2	112.7
49°	130.3	80.8	140.1	296.2	184.7	96.7
49.5°	112.0	70.9	121.8	270.9	162.8	86.2
50°	96.2	61.1	104.7	246.6	142.2	76.1
50.5°	82.3	51.3	89.5	223.9	122.8	65.8
51°	70.2	41.8	79.5	202.8	106.3	55.5
51.5°	59.6	34.3	69.4	182.7	91.3	45.4
52°	50.6	27.1	59.3	163.6	81.0	37.7
52.5°	42.6	20.1	49.0	146.0	70.7	30.4
53°	35.9	13.4	39.2	129.0	60.6	23.2
53.5°	29.2	8.8	31.7	113.3	50.3	16.3
54°	22.4	8.0	24.5	98.8	40.2	11.1
54.5°	15.7	7.5	17.8	85.7	32.8	9.8
55°	9.3	7.0	11.6	73.5	25.5	9.0
55.5°	7.0	6.4	10.3	64.8	18.6	8.0
56°	6.7	6.2	9.3	56.0	12.4	7.2
56.5°	6.4	5.9	8.0	47.5	8.0	7.0
57°	6.2	5.7	6.7	38.7	7.5	6.7
57.5°	5.9	5.4	5.4	29.9	7.2	6.4
58°	5.7	5.4	5.4	24.0	6.7	6.2
58.5°	5.7	5.2	5.2	19.1	6.2	5.9
59°	5.4	4.9	5.2	15.2	5.9	5.9
59.5°	5.2	4.9	4.9	12.4	5.9	5.7
60°	5.2	4.6	4.6	9.8	5.7	5.4
60.5°	4.9	4.4	4.6	8.8	5.4	5.2
61°	4.6	4.4	4.4	7.5	5.4	5.2
61.5°	4.6	4.1	4.4	6.2	5.2	4.9
62°	4.4	4.1	4.1	4.9	4.9	4.9
62.5°	4.4	3.9	4.1	4.6	4.9	4.6
63°	4.1	3.9	3.9	4.6	4.6	4.4
63.5°	3.9	3.6	3.9	4.4	4.6	4.4
64°	3.9	3.6	3.6	4.4	4.4	4.1
64.5°	3.6	3.4	3.6	4.1	4.1	4.1
65°	3.6	3.4	3.4	4.1	4.1	3.9
65.5°	3.4	3.1	3.4	3.9	3.9	3.9
66°	3.4	3.1	3.1	3.9	3.9	3.6



TEST NUMBER: P776104

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	3.1	2.6	2.8	3.4	3.4	3.4
68°	2.8	2.6	2.8	3.4	3.4	3.1
68.5°	2.8	2.6	2.6	3.1	3.1	3.1
69°	2.6	2.3	2.6	3.1	3.1	2.8
69.5°	2.6	2.3	2.6	2.8	3.1	2.8
70°	2.3	2.1	2.3	2.8	2.8	2.6
70.5°	2.3	2.1	2.3	2.8	2.8	2.6
71°	2.3	2.1	2.1	2.6	2.6	2.6
71.5°	2.1	1.8	2.1	2.6	2.6	2.3
72°	2.1	1.8	2.1	2.3	2.3	2.3
72.5°	1.8	1.8	1.8	2.3	2.3	2.1
73°	1.8	1.8	1.8	2.1	2.3	2.1
73.5°	1.8	1.5	1.8	2.1	2.1	2.1
74°	1.5	1.5	1.8	2.1	2.1	1.8
74.5°	1.5	1.5	1.5	1.8	2.1	1.8
75°	1.5	1.5	1.5	1.8	1.8	1.8
75.5°	1.5	1.3	1.5	1.5	1.8	1.5
76°	1.3	1.3	1.3	1.5	1.5	1.5
76.5°	1.3	1.3	1.3	1.5	1.5	1.5
77°	1.3	1.3	1.3	1.3	1.5	1.5
77.5°	1.0	1.0	1.3	1.3	1.3	1.3
78°	1.0	1.0	1.0	1.3	1.3	1.3
78.5°	1.0	1.0	1.0	1.0	1.3	1.3
79°	1.0	1.0	1.0	1.0	1.3	1.0
79.5°	0.8	0.8	1.0	1.0	1.0	1.0
80°	0.8	0.8	0.8	0.8	1.0	1.0
80.5°	0.8	0.8	0.8	0.8	1.0	1.0
81°	0.8	0.8	0.8	0.8	0.8	0.8
81.5°	0.5	0.8	0.8	0.8	0.8	0.8
82°	0.5	0.5	0.5	0.5	0.8	0.8
82.5°	0.5	0.5	0.5	0.5	0.5	0.8
83°	0.5	0.5	0.5	0.5	0.5	0.5
83.5°	0.5	0.5	0.5	0.5	0.5	0.5
84°	0.3	0.5	0.5	0.3	0.5	0.5
84.5°	0.3	0.3	0.3	0.3	0.3	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.0	0.3	0.3	0.3	0.3	0.3
87°	0.0	0.0	0.0	0.0	0.0	0.3
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: P776104

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQC-2500lm-5000K

**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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Scaled Data Report





21.5°	2021.1	2111.7	2196.5	2170.2	2084.3	2152.9	2220.5	2135.4	2065.5	2074.3	2106.3
22°	1990.2	2081.0	2167.7	2143.1	2054.7	2125.3	2191.9	2107.8	2036.6	2043.0	2074.3



44°	333.6	508.0	747.1	642.4	444.0	605.5	787.4	535.3	377.4	469.8	624.3
44.5°	303.9	472.6	716.2	603.7	410.5	568.6	760.8	500.2	345.2	436.5	589.3



66.5°	3.6	3.9	4.4	3.9	3.6	4.1	4.4	3.9	3.6	3.9	3.9
67°	3.4	3.9	4.1	3.9	3.4	3.9	4.4	3.9	3.6	3.6	3.6



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°	2023.4	1988.1	2027.0	2094.6	2076.3	2021.1
22°	1993.2	1956.1	1996.1	2062.9	2043.8	1990.2



44°	389.6	289.0	397.1	598.8	467.0	333.6
44.5°	357.3	262.1	366.3	564.7	433.9	303.9

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66.5°	3.4	2.8	3.1	3.6	3.6	3.6
67°	3.1	2.8	3.1	3.6	3.6	3.4

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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)