

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: P775951

Luminaire Tested: HCDJBS1525CSD-HCD42TRC-2500lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B049)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD42TRC-2500lm-3000K  
Description: 4 INCH ROUND NARROW SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

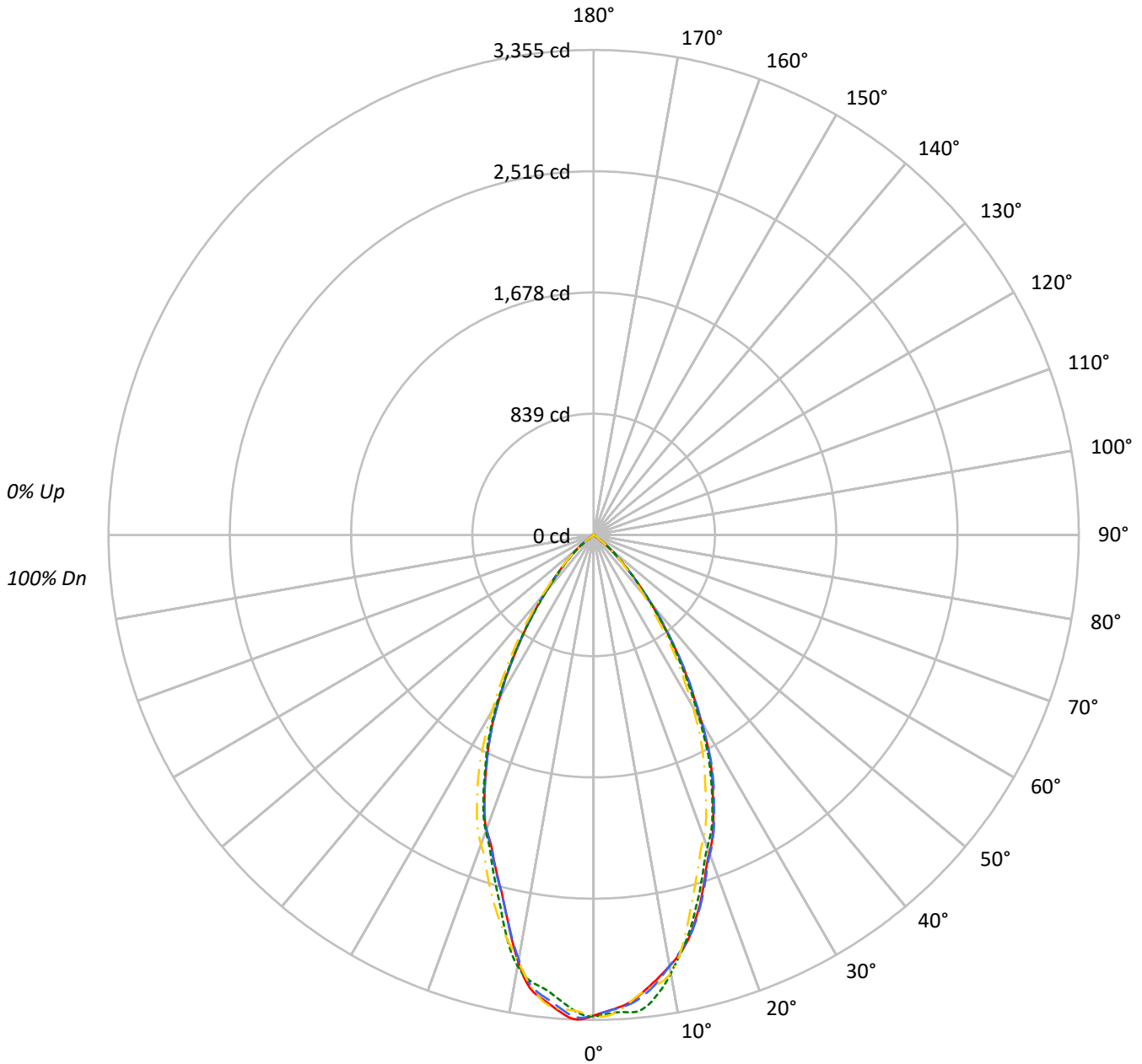
Lumens per Lamp: N/A  
Luminaire Lumens: 2737.4 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.81 / 0.84  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): 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: P775951  
CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRC-2500lm-3000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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																			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	66	65																			
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61																			
8	79	69	63	59	78	69	63	59	68	62	59	67	62	59	66	61	58	57																			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53																			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50																			

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

	0°	90°	180°	270°
0°	418652	418652	418652	418652
5°	407555	418571	413480	403613
10°	386875	393341	383463	387156
15°	357045	352120	326909	334505
20°	313335	308004	290232	292121
25°	270693	268361	243713	246254
30°	216307	211526	189728	192533
35°	157721	153235	133646	134553
40°	100805	99951	85708	83802
45°	56295	57843	51240	49798
50°	25589	27332	25394	24434
55°	1514	1470	1185	1360
60°	428	554	503	503
65°	208	298	298	298
70°	184	184	184	184
75°	97	97	97	97
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 57843 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.6	11.1
10°-20°	734.5	26.8
20°-30°	842.6	30.8
30°-40°	588.9	21.5
40°-50°	240.2	8.8
50°-60°	26.4	1.0
60°-70°	1.0	0.0
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°	1880.6	68.7
0°-40°	2469.5	90.2
0°-60°	2736.2	100.0
0°-90°	2737.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3327	3327	3327	3327	3327	
5°	3226	3313	3273	3195	3226	301
15°	2740	2703	2509	2567	2740	760
25°	1949	1933	1755	1773	1949	888
35°	1027	997	870	876	1027	637
45°	316	325	288	280	316	253
55°	7	7	5	6	7	26
65°	1	1	1	1	1	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°	3326.6	3326.6	3326.6	3326.6	3326.6	3326.6	3326.6	3326.6	3326.6	3326.6	3326.6
0.5°	3316.0	3315.8	3315.8	3316.5	3328.1	3329.1	3332.1	3335.0	3336.3	3336.0	3332.8
1°	3307.1	3306.4	3307.6	3309.6	3322.2	3326.4	3333.3	3340.7	3345.7	3345.4	3339.2
1.5°	3298.5	3297.5	3299.7	3303.7	3316.7	3321.2	3330.3	3342.2	3352.3	3352.8	3342.2
2°	3290.3	3288.1	3292.3	3299.5	3311.3	3314.0	3322.7	3338.3	3354.8	3356.8	3339.7
2.5°	3282.4	3278.2	3284.9	3297.0	3307.9	3305.9	3310.8	3327.9	3350.1	3354.8	3331.3
3°	3274.2	3266.6	3278.2	3297.0	3306.6	3297.0	3296.2	3313.3	3340.0	3345.7	3317.7
3.5°	3265.3	3253.2	3271.0	3299.9	3307.6	3287.8	3279.2	3296.0	3325.6	3332.8	3301.4
4°	3255.2	3238.9	3263.4	3303.9	3310.8	3277.7	3260.2	3276.7	3309.1	3316.3	3284.1
4.5°	3242.1	3221.1	3254.0	3308.3	3313.3	3265.8	3240.1	3256.9	3291.3	3299.0	3266.1
5°	3226.1	3201.8	3242.9	3310.1	3313.3	3251.0	3220.1	3237.4	3273.0	3281.9	3248.5
5.5°	3207.3	3181.6	3228.0	3306.6	3307.6	3233.7	3200.6	3219.9	3256.2	3264.4	3232.2
6°	3187.5	3161.3	3210.7	3297.0	3295.2	3213.4	3183.1	3204.3	3240.6	3247.1	3217.4
6.5°	3167.0	3143.3	3192.2	3280.2	3278.2	3194.7	3168.2	3191.5	3225.3	3230.0	3202.8
7°	3148.0	3128.2	3172.9	3256.9	3256.9	3176.4	3157.1	3180.3	3208.3	3211.2	3187.0
7.5°	3128.4	3114.8	3152.4	3227.8	3232.0	3158.8	3148.5	3170.2	3189.2	3187.7	3167.7
8°	3109.7	3103.0	3130.2	3192.9	3205.8	3142.8	3140.3	3158.1	3164.8	3158.3	3143.0
8.5°	3088.6	3092.6	3105.2	3152.7	3177.1	3126.0	3131.6	3142.0	3132.1	3122.0	3111.4
9°	3068.1	3083.0	3079.3	3109.9	3147.0	3107.7	3118.1	3120.0	3093.6	3078.8	3074.8
9.5°	3047.1	3073.8	3053.3	3067.1	3112.9	3088.9	3099.8	3091.4	3047.9	3029.1	3030.8
10°	3027.4	3065.9	3027.4	3024.9	3078.0	3067.9	3076.5	3056.8	3000.7	2975.7	2985.3
10.5°	3006.6	3058.0	3002.4	2987.1	3042.4	3044.2	3046.6	3018.0	2951.0	2917.4	2938.4
11°	2986.3	3048.9	2978.7	2952.2	3007.1	3016.7	3011.8	2975.7	2899.6	2858.6	2890.7
11.5°	2963.8	3035.3	2954.9	2921.3	2973.5	2985.1	2970.3	2931.7	2846.2	2799.5	2840.5
12°	2939.9	3015.0	2931.5	2893.2	2938.4	2948.8	2926.3	2886.5	2794.1	2739.7	2789.6
12.5°	2912.4	2987.3	2906.8	2867.2	2902.6	2907.3	2877.1	2839.5	2741.2	2682.1	2737.7
13°	2883.8	2953.5	2881.8	2841.3	2866.7	2863.5	2827.4	2791.3	2688.8	2628.5	2689.5
13.5°	2850.7	2915.2	2852.9	2812.8	2827.9	2815.3	2775.8	2739.9	2638.9	2577.8	2640.4
14°	2816.3	2873.4	2821.7	2781.2	2786.4	2766.4	2724.9	2692.5	2591.7	2532.1	2594.1
14.5°	2779.2	2829.9	2787.4	2748.3	2744.6	2715.7	2674.5	2643.6	2547.7	2488.9	2551.6
15°	2740.4	2783.9	2751.1	2713.7	2702.6	2666.8	2627.3	2598.1	2509.1	2448.8	2513.3
15.5°	2702.1	2740.4	2713.0	2679.4	2660.6	2620.8	2581.8	2553.4	2470.3	2412.2	2475.8
16°	2662.3	2696.0	2674.0	2643.1	2619.1	2576.1	2536.8	2510.1	2433.0	2376.2	2438.7
16.5°	2621.3	2650.0	2633.7	2605.0	2577.6	2531.1	2491.1	2465.1	2394.0	2339.8	2399.9
17°	2577.8	2603.8	2591.7	2564.2	2534.3	2486.1	2448.1	2420.2	2355.7	2303.5	2361.8
17.5°	2534.8	2556.1	2548.9	2523.2	2490.3	2440.9	2404.8	2375.7	2316.6	2267.7	2323.0
18°	2490.3	2509.1	2504.4	2481.4	2448.1	2396.2	2362.6	2333.9	2279.8	2234.1	2287.0
18.5°	2447.1	2463.9	2460.4	2439.9	2405.3	2354.2	2322.3	2292.9	2247.2	2204.2	2252.8
19°	2406.8	2421.9	2419.2	2401.1	2366.5	2316.1	2286.7	2258.5	2218.7	2178.2	2224.7
19.5°	2371.5	2384.8	2382.3	2367.5	2330.4	2283.7	2255.6	2227.4	2193.0	2153.5	2195.8
20°	2339.6	2351.2	2349.7	2337.4	2299.8	2253.6	2226.2	2197.2	2167.1	2127.3	2167.1
20.5°	2310.9	2319.6	2319.6	2309.9	2271.1	2223.7	2195.3	2164.1	2137.2	2096.7	2134.2
21°	2278.3	2286.0	2286.0	2281.3	2242.2	2191.1	2158.9	2126.6	2102.6	2062.1	2097.7



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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°	2163.1	2171.0	2175.0	2182.7	2142.1	2080.6	2033.1	1989.4	1973.6	1939.5	1974.1
23°	2117.4	2128.3	2131.8	2143.1	2101.1	2038.8	1986.4	1940.5	1929.8	1899.5	1929.6
23.5°	2072.9	2086.5	2089.5	2103.1	2058.9	1998.6	1939.0	1895.5	1886.1	1859.2	1885.4
24°	2029.9	2045.0	2046.5	2060.3	2017.1	1959.3	1898.2	1850.5	1842.6	1819.1	1841.1
24.5°	1988.9	2006.2	2006.5	2016.1	1974.3	1917.7	1857.4	1805.5	1798.9	1778.9	1796.9
25°	1949.4	1967.9	1964.9	1969.1	1932.6	1877.7	1816.7	1760.6	1755.1	1738.6	1752.4
25.5°	1911.6	1930.6	1926.1	1923.9	1889.3	1837.9	1775.9	1718.6	1713.4	1699.3	1708.2
26°	1871.8	1893.0	1884.6	1875.7	1846.1	1797.9	1735.1	1678.0	1672.3	1657.3	1666.9
26.5°	1831.0	1853.5	1842.9	1828.5	1802.6	1757.8	1694.3	1636.5	1629.1	1614.0	1623.4
27°	1788.2	1811.0	1797.6	1778.4	1759.1	1711.6	1652.6	1595.5	1585.8	1569.5	1579.4
27.5°	1743.5	1767.0	1751.2	1730.9	1715.6	1665.9	1609.1	1552.7	1541.1	1523.8	1534.9
28°	1695.6	1720.8	1701.7	1681.2	1663.9	1618.2	1564.6	1506.3	1495.4	1477.1	1488.5
28.5°	1645.2	1673.1	1650.1	1633.8	1611.0	1569.5	1515.7	1459.3	1447.2	1427.7	1440.5
29°	1592.0	1626.1	1597.5	1584.6	1558.7	1521.3	1466.5	1411.9	1400.0	1378.7	1393.8
29.5°	1540.6	1576.5	1545.3	1536.9	1506.8	1471.4	1416.6	1362.4	1352.8	1329.8	1345.9
30°	1488.5	1526.3	1494.4	1489.0	1455.6	1421.5	1367.1	1314.0	1305.6	1283.4	1298.7
30.5°	1437.3	1476.1	1444.5	1441.3	1405.2	1372.1	1317.5	1267.8	1258.6	1234.9	1251.2
31°	1387.9	1425.0	1396.3	1392.1	1359.0	1325.4	1269.8	1223.3	1213.2	1188.7	1207.0
31.5°	1339.9	1375.5	1350.6	1344.4	1307.8	1277.7	1224.5	1179.1	1168.2	1143.7	1161.5
32°	1293.7	1326.4	1305.3	1296.5	1261.6	1230.7	1179.8	1136.8	1123.2	1102.9	1117.5
32.5°	1248.3	1277.2	1260.9	1249.5	1215.1	1182.0	1135.8	1093.6	1077.5	1059.7	1074.0
33°	1204.5	1229.5	1217.6	1203.5	1172.6	1136.3	1091.8	1051.8	1034.2	1018.7	1030.5
33.5°	1160.3	1182.3	1172.4	1158.8	1125.4	1089.6	1049.3	1010.8	990.5	977.7	988.5
34°	1116.0	1135.3	1127.7	1115.3	1081.0	1045.6	1006.3	969.2	950.5	939.8	946.5
34.5°	1071.1	1087.6	1082.7	1072.8	1038.4	1000.1	963.6	926.2	909.2	899.8	906.5
35°	1026.6	1040.9	1038.2	1029.5	997.4	956.9	919.6	885.0	869.9	861.5	866.9
35.5°	982.6	995.2	994.0	987.3	954.9	913.9	876.8	844.7	831.3	823.4	828.1
36°	938.9	950.5	949.5	944.5	913.6	873.9	834.1	805.2	794.5	787.4	789.3
36.5°	894.1	906.5	906.5	900.3	873.4	830.9	791.6	764.1	756.2	749.8	751.8
37°	852.9	865.7	865.2	859.3	835.3	790.6	750.0	724.3	719.2	715.7	714.7
37.5°	811.6	824.9	823.9	818.3	794.3	751.0	710.7	687.5	682.8	681.6	678.9
38°	770.3	783.9	782.9	777.0	756.2	714.2	672.4	650.7	648.5	648.5	643.5
38.5°	729.0	743.1	741.6	736.0	718.2	677.1	636.1	614.4	615.1	616.3	610.2
39°	687.8	702.3	700.4	694.9	682.3	641.6	600.8	579.0	582.7	585.7	577.8
39.5°	649.5	663.5	661.6	657.9	643.5	607.4	566.4	545.2	551.1	555.1	546.9
40°	613.6	626.5	623.0	622.0	608.4	574.8	533.3	512.1	521.7	526.1	516.5
40.5°	577.8	590.9	585.0	587.7	574.1	543.2	501.4	481.2	493.8	498.2	488.6
41°	542.2	556.8	549.6	553.6	541.7	513.3	471.5	451.3	466.8	472.0	461.4
41.5°	508.6	523.2	515.5	520.7	509.6	484.1	443.4	424.6	441.1	446.6	435.4
42°	478.4	492.0	483.6	488.6	480.9	456.7	416.9	399.1	415.9	422.3	410.7
42.5°	448.8	461.4	452.5	456.7	451.8	430.5	392.4	376.4	392.9	399.1	386.8
43°	420.1	431.5	423.1	427.0	424.6	405.0	369.7	355.1	370.2	376.6	364.3
43.5°	391.5	401.8	395.2	397.6	398.1	380.6	348.2	335.6	348.2	354.6	342.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	316.3	321.5	319.0	320.3	325.0	314.8	290.6	280.5	287.9	293.1	284.2
45.5°	291.9	297.3	295.6	298.0	303.2	293.3	273.1	263.9	269.6	273.8	266.4
46°	270.9	275.3	273.6	276.5	281.2	273.3	255.8	247.6	251.8	255.0	249.1
46.5°	249.1	253.3	252.1	255.3	261.2	254.5	239.7	232.3	235.5	238.2	233.0
47°	229.6	232.6	232.1	235.8	241.7	237.5	223.9	217.0	219.5	221.7	217.2
47.5°	209.3	212.3	212.3	216.7	223.7	220.2	208.1	201.7	203.1	204.9	201.2
48°	191.5	194.0	193.8	198.2	205.6	203.1	192.3	186.3	186.8	188.1	185.3
48.5°	174.5	176.7	176.7	181.1	187.6	185.8	176.5	171.3	170.8	171.3	169.5
49°	159.6	160.9	160.9	164.8	169.8	168.8	162.1	157.2	156.7	157.4	155.7
49.5°	145.1	145.6	145.8	148.8	154.2	153.7	148.5	143.8	142.8	143.8	142.3
50°	130.7	130.7	131.0	133.9	139.6	139.1	133.9	130.2	129.7	130.5	128.8
50.5°	115.7	115.7	115.4	118.1	124.3	123.8	119.6	115.9	115.9	116.4	114.7
51°	99.3	99.1	98.6	100.8	107.5	107.3	103.3	100.1	100.3	100.3	98.6
51.5°	81.3	81.1	80.8	81.1	89.7	89.5	86.7	84.0	84.3	83.8	82.3
52°	66.5	66.2	66.2	66.5	71.4	70.4	68.5	67.0	67.2	66.2	64.7
52.5°	51.7	51.4	51.9	51.9	54.6	53.1	51.7	50.9	50.4	49.9	48.7
53°	36.8	36.8	37.3	37.1	45.0	43.7	42.3	41.8	41.3	41.0	40.0
53.5°	22.0	22.2	23.0	22.7	35.3	34.4	33.1	32.6	32.4	32.1	31.1
54°	13.3	13.6	14.1	14.1	25.5	24.7	24.0	23.5	23.5	23.2	22.5
54.5°	7.9	8.2	8.6	8.4	15.8	15.3	14.8	14.6	14.6	14.3	13.6
55°	6.9	6.9	7.2	7.2	6.7	6.2	5.7	5.4	5.4	5.4	5.4
55.5°	5.7	5.7	5.9	5.9	5.2	4.9	4.4	4.4	4.2	4.2	4.4
56°	4.4	4.4	4.7	4.9	4.4	4.2	4.0	3.7	3.7	3.7	4.0
56.5°	3.2	3.2	3.5	3.7	4.0	3.7	3.5	3.5	3.2	3.5	3.5
57°	3.0	3.0	3.2	3.5	3.7	3.5	3.2	3.0	3.0	3.0	3.2
57.5°	2.7	2.7	3.0	3.2	3.2	3.2	3.0	2.7	2.7	2.7	3.0
58°	2.5	2.5	2.7	3.0	3.0	3.0	2.7	2.7	2.5	2.5	2.7
58.5°	2.2	2.2	2.5	2.7	2.7	2.7	2.5	2.5	2.2	2.5	2.5
59°	2.0	2.2	2.2	2.5	2.7	2.5	2.2	2.2	2.2	2.2	2.2
59.5°	2.0	2.0	2.2	2.2	2.5	2.2	2.2	2.0	2.0	2.0	2.2
60°	1.7	1.7	2.0	2.2	2.2	2.2	2.0	2.0	2.0	2.0	2.0
60.5°	1.7	1.7	1.7	2.0	2.0	2.0	1.7	1.7	1.7	1.7	1.7
61°	1.5	1.5	1.7	1.7	2.0	1.7	1.7	1.7	1.5	1.7	1.7
61.5°	1.5	1.5	1.5	1.7	1.7	1.7	1.5	1.5	1.5	1.5	1.5
62°	1.2	1.2	1.5	1.5	1.7	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.5
63°	1.2	1.2	1.2	1.2	1.5	1.5	1.2	1.2	1.2	1.2	1.2
63.5°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
64°	1.0	1.0	1.0	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.2
64.5°	1.0	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.0	1.0	1.0
65°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	1.0	1.0
66°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7





TEST NUMBER: P775951

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3000K

**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	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
68°	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
68.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.7	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	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
72°	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
77.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
78°	0.0	0.0	0.0	0.0	0.2	0.2	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: P775951  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-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: P775951

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3326.6	3326.6	3326.6	3326.6	3326.6	3326.6
0.5°	3328.1	3331.1	3323.9	3320.2	3317.7	3316.0
1°	3330.1	3326.6	3317.2	3312.3	3309.3	3307.1
1.5°	3327.4	3317.5	3308.6	3304.4	3301.9	3298.5
2°	3319.0	3304.6	3297.7	3297.5	3295.7	3290.3
2.5°	3304.9	3288.1	3286.6	3292.5	3291.5	3282.4
3°	3287.6	3269.8	3275.7	3289.6	3289.1	3274.2
3.5°	3267.8	3250.8	3264.6	3288.3	3288.3	3265.3
4°	3248.3	3232.5	3253.0	3287.6	3288.3	3255.2
4.5°	3228.8	3213.7	3239.4	3286.1	3286.8	3242.1
5°	3210.7	3194.9	3224.1	3280.9	3281.7	3226.1
5.5°	3194.2	3177.6	3205.5	3269.5	3271.5	3207.3
6°	3179.6	3163.0	3186.3	3252.7	3256.0	3187.5
6.5°	3168.2	3150.9	3166.5	3231.2	3235.2	3167.0
7°	3158.8	3140.5	3147.2	3206.3	3210.5	3148.0
7.5°	3149.9	3131.2	3127.9	3177.4	3178.1	3128.4
8°	3139.8	3119.8	3107.4	3147.7	3146.0	3109.7
8.5°	3124.5	3104.5	3086.9	3112.9	3107.7	3088.6
9°	3103.5	3084.7	3063.9	3075.3	3069.4	3068.1
9.5°	3075.1	3059.5	3039.0	3035.8	3028.8	3047.1
10°	3040.5	3029.6	3012.0	2998.2	2992.0	3027.4
10.5°	2999.9	2997.2	2983.1	2961.6	2958.2	3006.6
11°	2956.4	2958.9	2951.5	2928.3	2926.5	2986.3
11.5°	2911.5	2913.7	2916.4	2895.6	2896.9	2963.8
12°	2862.8	2865.2	2878.3	2864.0	2870.4	2939.9
12.5°	2812.4	2814.8	2837.3	2831.1	2844.2	2912.4
13°	2762.7	2762.7	2794.6	2798.3	2818.3	2883.8
13.5°	2711.0	2710.5	2748.3	2761.9	2789.9	2850.7
14°	2657.9	2660.1	2700.4	2725.1	2760.2	2816.3
14.5°	2608.5	2612.7	2653.4	2687.3	2727.8	2779.2
15°	2561.3	2567.4	2607.0	2649.7	2695.0	2740.4
15.5°	2516.3	2523.7	2562.3	2612.2	2661.9	2702.1
16°	2472.1	2480.2	2517.5	2573.6	2626.5	2662.3
16.5°	2427.8	2438.0	2473.0	2533.3	2589.4	2621.3
17°	2382.8	2395.2	2429.8	2492.6	2549.9	2577.8
17.5°	2338.1	2352.2	2385.3	2451.8	2509.9	2534.8
18°	2294.9	2310.7	2342.3	2410.5	2469.1	2490.3
18.5°	2254.3	2274.3	2302.0	2370.0	2428.3	2447.1
19°	2219.2	2240.5	2267.4	2334.2	2391.2	2406.8
19.5°	2187.6	2211.1	2236.8	2304.5	2359.9	2371.5
20°	2157.0	2181.2	2206.4	2277.8	2332.4	2339.6
20.5°	2123.4	2150.8	2175.7	2250.4	2305.0	2310.9
21°	2086.0	2115.9	2142.4	2219.7	2275.3	2278.3

TEST NUMBER: P775951

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1956.5	1993.6	2031.9	2109.3	2166.4	2163.1
23°	1912.5	1949.4	1990.6	2066.8	2122.6	2117.4
23.5°	1868.8	1905.4	1950.1	2023.0	2079.1	2072.9
24°	1824.8	1860.2	1909.3	1980.3	2033.9	2029.9
24.5°	1781.1	1816.4	1868.8	1938.0	1990.1	1988.9
25°	1737.1	1773.4	1825.3	1896.0	1945.9	1949.4
25.5°	1697.8	1732.6	1784.8	1853.7	1901.4	1911.6
26°	1657.5	1691.4	1742.0	1809.2	1855.2	1871.8
26.5°	1615.7	1650.1	1698.8	1763.3	1809.5	1831.0
27°	1573.7	1608.1	1652.1	1715.1	1761.1	1788.2
27.5°	1529.0	1563.4	1606.4	1664.7	1712.1	1743.5
28°	1483.5	1517.9	1557.2	1610.8	1662.7	1695.6
28.5°	1434.6	1470.7	1507.3	1558.9	1616.2	1645.2
29°	1385.7	1423.2	1456.1	1507.0	1565.8	1592.0
29.5°	1337.5	1373.1	1406.2	1456.3	1517.4	1540.6
30°	1291.3	1324.9	1357.2	1406.2	1467.5	1488.5
30.5°	1245.8	1276.2	1307.3	1358.2	1418.8	1437.3
31°	1203.0	1228.2	1260.1	1309.8	1370.1	1387.9
31.5°	1159.8	1181.3	1213.9	1262.8	1322.2	1339.9
32°	1119.5	1134.8	1168.4	1216.6	1274.0	1293.7
32.5°	1076.8	1090.8	1123.2	1168.9	1226.8	1248.3
33°	1036.0	1047.3	1079.5	1123.5	1181.8	1204.5
33.5°	993.7	1005.1	1035.2	1079.0	1137.8	1160.3
34°	951.2	962.1	991.2	1035.2	1093.8	1116.0
34.5°	909.7	918.3	949.0	993.5	1051.0	1071.1
35°	869.4	875.8	905.7	951.0	1008.0	1026.6
35.5°	829.4	835.3	866.2	911.2	966.8	982.6
36°	791.1	794.5	826.7	883.5	923.8	938.9
36.5°	752.3	754.0	787.4	842.2	877.1	894.1
37°	716.4	713.5	747.8	800.5	836.5	852.9
37.5°	678.4	675.7	708.5	758.9	796.3	811.6
38°	641.8	640.3	672.0	717.4	755.7	770.3
38.5°	606.0	605.5	637.4	680.4	715.4	729.0
39°	570.1	573.3	604.0	644.5	678.1	687.8
39.5°	535.5	540.0	571.4	609.4	640.8	649.5
40°	502.7	510.1	539.5	574.6	605.7	613.6
40.5°	471.5	479.9	510.1	542.0	571.4	577.8
41°	443.4	453.0	481.4	510.3	538.3	542.2
41.5°	417.2	426.5	454.2	480.7	506.4	508.6
42°	392.7	401.6	429.8	452.3	474.7	478.4
42.5°	370.7	379.1	404.6	425.6	445.3	448.8
43°	349.9	356.9	380.6	398.4	416.4	420.1
43.5°	330.7	336.1	357.6	372.7	388.7	391.5



TEST NUMBER: P775951

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	277.5	279.8	295.1	302.7	312.4	316.3
45.5°	261.0	262.5	275.3	281.5	289.9	291.9
46°	244.9	245.6	256.0	261.5	269.1	270.9
46.5°	229.6	228.6	237.2	241.7	248.6	249.1
47°	214.5	212.5	219.2	222.7	229.1	229.6
47.5°	199.4	196.7	201.4	204.6	210.6	209.3
48°	184.4	181.4	185.3	187.6	192.8	191.5
48.5°	169.0	167.1	169.8	171.3	175.7	174.5
49°	155.7	153.2	155.7	156.4	160.6	159.6
49.5°	142.3	139.4	141.6	141.6	145.8	145.1
50°	128.5	124.8	127.0	127.3	131.2	130.7
50.5°	114.2	109.5	112.0	112.0	115.9	115.7
51°	98.1	92.4	94.7	95.6	99.6	99.3
51.5°	82.0	77.8	79.8	80.6	81.6	81.3
52°	64.3	63.3	64.7	65.5	66.5	66.5
52.5°	49.2	48.7	49.9	50.4	51.4	51.7
53°	40.3	34.1	34.8	35.3	36.6	36.8
53.5°	31.6	19.5	20.0	20.5	21.5	22.0
54°	22.7	11.6	12.1	12.4	13.1	13.3
54.5°	14.1	6.9	7.4	7.4	7.7	7.9
55°	5.7	6.2	6.4	6.2	6.4	6.9
55.5°	4.7	5.4	5.4	5.4	5.4	5.7
56°	4.2	4.4	4.4	4.4	4.4	4.4
56.5°	3.7	3.7	3.5	3.5	3.2	3.2
57°	3.5	3.2	3.2	3.0	3.0	3.0
57.5°	3.2	3.0	3.0	2.7	2.7	2.7
58°	3.0	2.7	2.7	2.5	2.5	2.5
58.5°	2.7	2.7	2.5	2.5	2.2	2.2
59°	2.5	2.5	2.2	2.2	2.2	2.0
59.5°	2.2	2.2	2.2	2.0	2.0	2.0
60°	2.2	2.0	2.0	2.0	1.7	1.7
60.5°	2.0	2.0	2.0	1.7	1.7	1.7
61°	1.7	1.7	1.7	1.7	1.5	1.5
61.5°	1.7	1.7	1.7	1.5	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.2	1.2
62.5°	1.5	1.5	1.5	1.2	1.2	1.2
63°	1.5	1.5	1.2	1.2	1.2	1.2
63.5°	1.2	1.2	1.2	1.2	1.0	1.0
64°	1.2	1.2	1.2	1.0	1.0	1.0
64.5°	1.2	1.2	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	0.7	0.7
65.5°	1.0	1.0	1.0	0.7	0.7	0.7
66°	1.0	1.0	0.7	0.7	0.7	0.7



TEST NUMBER: P775951

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.7	0.7	0.7	0.7	0.5	0.5
68°	0.7	0.7	0.7	0.5	0.5	0.5
68.5°	0.7	0.7	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	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.2
71°	0.5	0.5	0.5	0.5	0.2	0.2
71.5°	0.5	0.5	0.5	0.2	0.2	0.2
72°	0.5	0.5	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°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.0
76.5°	0.2	0.2	0.2	0.2	0.0	0.0
77°	0.2	0.2	0.2	0.2	0.0	0.0
77.5°	0.2	0.2	0.2	0.0	0.0	0.0
78°	0.2	0.2	0.0	0.0	0.0	0.0
78.5°	0.2	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: P775951

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-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°	2242.5	2250.4	2251.1	2252.4	2211.1	2157.0	2120.4	2084.3	2063.1	2022.8	2058.9
22°	2202.9	2210.8	2213.3	2219.5	2178.2	2120.6	2078.4	2038.6	2019.6	1982.2	2017.6



44°	365.8	374.2	368.2	369.7	372.7	357.1	328.2	315.6	327.2	333.4	322.5
44.5°	340.8	347.0	342.8	344.0	348.0	335.9	309.7	298.0	306.9	312.9	303.0



66.5°	0.7	0.7	0.7	0.7	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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°	2046.5	2078.4	2108.0	2186.1	2242.7	2242.5
22°	2002.5	2036.9	2069.5	2150.0	2205.6	2202.9



44°	311.9	316.1	336.3	348.2	361.8	365.8
44.5°	294.3	297.8	314.8	325.0	336.1	340.8

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66.5°	0.7	0.7	0.7	0.7	0.7	0.7
67°	0.7	0.7	0.7	0.7	0.7	0.7

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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)