

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P776058

Luminaire Tested: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B056)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD62TRH-2500lm-4000K  
Description: 6 INCH ROUND NARROW HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

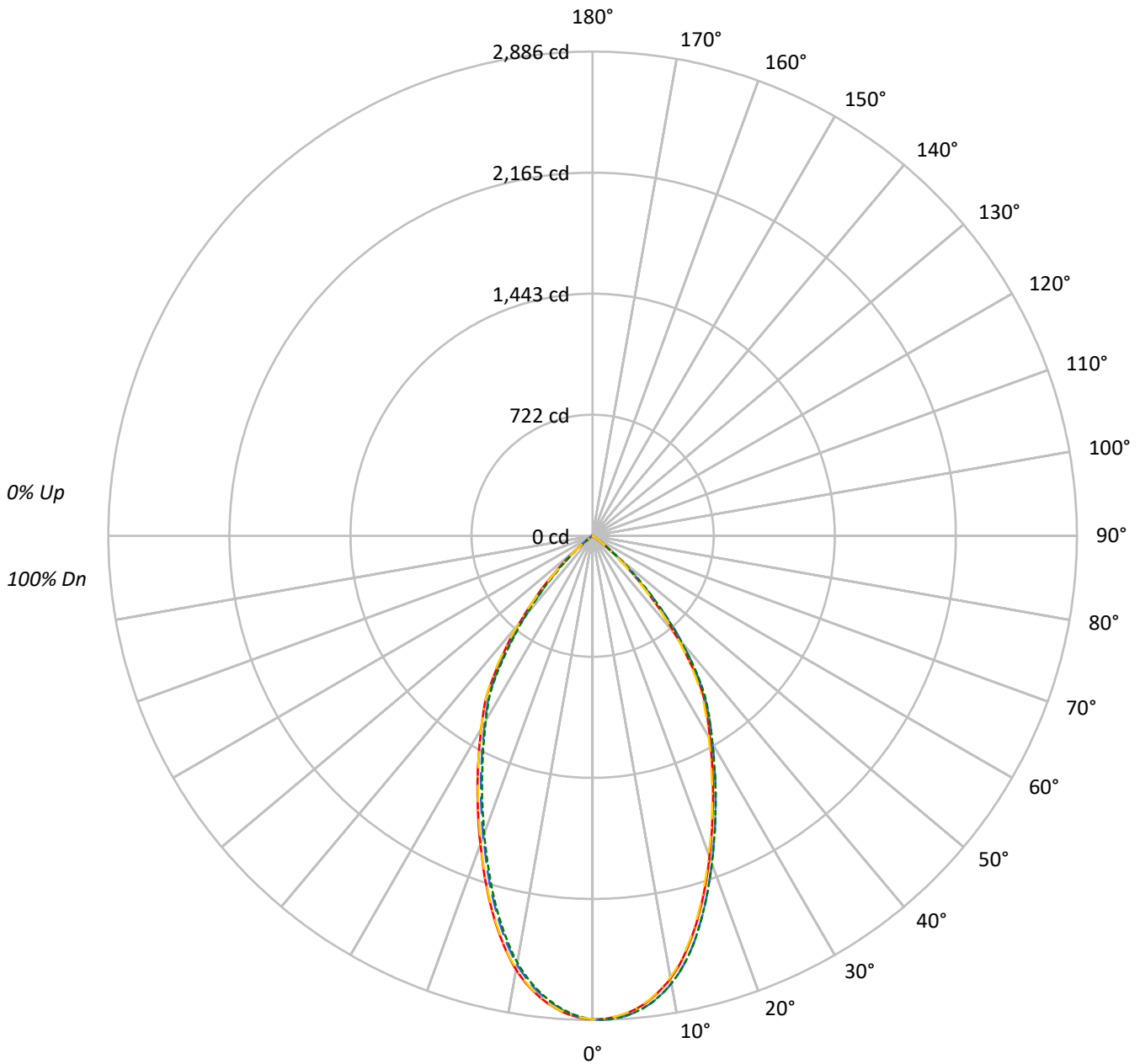
Lumens per Lamp: N/A  
Luminaire Lumens: 2680.9 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.82 / 0.91  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P776058  
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

### Luminous Intensity Polar Plot





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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
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86			86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73			73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68			68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63			63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47			47

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

	0°	90°	180°	270°
0°	157942	157942	157942	157942
5°	156108	156994	154738	153593
10°	149068	150749	146190	143757
15°	135597	138037	131295	127872
20°	118812	121204	114081	110195
25°	102744	104915	98129	94191
30°	88634	90324	84095	80569
35°	76172	77965	69419	65739
40°	54881	58195	48713	44448
45°	32499	36306	27724	24080
50°	13475	15752	9526	7940
55°	2284	3011	2284	1510
60°	943	888	921	757
65°	558	532	558	467
70°	369	369	369	321
75°	275	212	275	212
80°	158	158	158	158
85°	0	189	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 38632 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.0	9.8
10°-20°	652.4	24.3
20°-30°	759.1	28.3
30°-40°	660.1	24.6
40°-50°	303.7	11.3
50°-60°	35.8	1.3
60°-70°	4.3	0.2
70°-80°	1.3	0.0
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°	1675.5	62.5
0°-40°	2335.6	87.1
0°-60°	2675.1	99.8
0°-90°	2680.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2881	2881	2881	2881	2881	
5°	2837	2853	2812	2791	2837	266
15°	2389	2432	2313	2253	2389	664
25°	1699	1734	1622	1557	1699	780
35°	1138	1165	1037	982	1138	692
45°	419	468	358	311	419	329
55°	24	32	24	16	24	40
65°	4	4	4	4	4	5
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776058

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-2500lm-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2881.1	2881.1	2881.1	2881.1	2881.1	2881.1	2881.1	2881.1	2881.1	2881.1	2881.1
0.5°	2882.4	2884.4	2884.7	2882.4	2882.9	2881.4	2880.3	2880.9	2880.3	2880.6	2880.1
1°	2881.9	2884.7	2885.7	2884.4	2883.7	2881.4	2880.1	2879.1	2877.5	2877.3	2876.3
1.5°	2879.6	2883.7	2885.7	2885.2	2883.7	2880.6	2878.3	2876.0	2873.5	2872.2	2870.7
2°	2877.0	2882.1	2884.4	2884.9	2882.4	2879.1	2875.8	2871.7	2868.4	2866.1	2863.6
2.5°	2873.0	2879.1	2881.9	2883.7	2880.3	2875.8	2871.4	2866.1	2862.0	2858.7	2855.4
3°	2867.9	2875.0	2878.1	2881.6	2876.8	2872.0	2866.1	2860.0	2854.1	2850.1	2846.0
3.5°	2862.0	2869.7	2873.7	2878.3	2872.7	2867.1	2859.7	2852.6	2845.5	2839.9	2835.8
4°	2854.7	2863.3	2867.9	2873.7	2867.6	2860.8	2852.6	2843.5	2835.3	2829.0	2824.4
4.5°	2846.3	2855.9	2861.5	2867.9	2861.0	2853.1	2844.0	2833.8	2824.1	2816.8	2811.7
5°	2836.8	2847.5	2853.1	2861.5	2852.9	2844.7	2834.1	2822.9	2811.9	2803.3	2797.2
5.5°	2826.7	2838.1	2844.5	2853.4	2844.2	2834.6	2823.1	2811.2	2798.9	2789.0	2782.4
6°	2814.7	2827.2	2834.8	2844.7	2834.1	2823.6	2811.4	2796.9	2783.9	2773.3	2766.1
6.5°	2802.3	2816.0	2823.6	2834.6	2822.6	2811.7	2798.2	2782.4	2768.7	2757.5	2749.1
7°	2787.8	2802.5	2810.9	2823.6	2810.7	2798.7	2783.7	2767.2	2752.1	2740.2	2731.3
7.5°	2772.2	2788.3	2797.2	2810.9	2796.7	2783.2	2767.9	2751.1	2733.8	2720.9	2711.7
8°	2755.7	2772.2	2781.4	2797.2	2781.7	2766.9	2751.1	2732.6	2715.0	2701.0	2690.8
8.5°	2738.2	2756.0	2765.4	2782.2	2764.9	2750.6	2733.1	2713.0	2694.7	2679.9	2669.2
9°	2719.1	2737.9	2747.3	2765.1	2747.3	2732.3	2714.0	2692.6	2673.3	2657.3	2646.1
9.5°	2699.0	2718.3	2729.0	2747.3	2728.5	2712.5	2693.1	2672.0	2650.4	2633.9	2621.7
10°	2677.9	2697.5	2708.4	2728.2	2708.1	2691.6	2671.8	2647.9	2626.2	2608.9	2595.5
10.5°	2654.7	2676.6	2687.3	2708.1	2687.5	2670.2	2648.1	2623.7	2600.0	2580.7	2567.0
11°	2630.8	2653.2	2664.4	2687.0	2664.4	2646.3	2624.0	2597.2	2572.3	2550.4	2537.0
11.5°	2604.9	2627.8	2639.7	2664.1	2640.2	2621.4	2597.8	2569.8	2542.8	2520.9	2506.7
12°	2576.9	2601.6	2613.3	2639.2	2614.3	2594.4	2569.3	2539.8	2513.1	2490.7	2475.2
12.5°	2548.2	2573.1	2586.1	2612.8	2587.3	2566.2	2540.0	2510.3	2481.3	2458.1	2442.3
13°	2518.4	2544.1	2557.8	2585.3	2558.6	2537.2	2510.5	2479.2	2449.5	2425.0	2408.8
13.5°	2487.6	2514.1	2528.3	2556.8	2528.8	2506.4	2479.2	2447.2	2416.4	2391.2	2373.9
14°	2455.6	2483.0	2497.0	2527.8	2497.3	2475.4	2446.9	2413.9	2382.6	2357.9	2340.1
14.5°	2423.0	2450.7	2465.5	2495.2	2465.0	2442.1	2413.3	2380.0	2348.7	2321.8	2304.7
15°	2389.2	2417.9	2431.7	2464.5	2432.2	2408.5	2379.8	2345.9	2313.4	2287.2	2269.1
15.5°	2354.8	2383.8	2397.6	2431.1	2398.8	2374.7	2345.9	2311.3	2278.3	2251.6	2233.0
16°	2320.5	2349.8	2363.7	2397.1	2364.0	2340.1	2311.6	2275.7	2242.9	2216.2	2197.4
16.5°	2286.2	2315.4	2329.9	2363.0	2329.2	2305.5	2276.8	2241.1	2208.1	2179.8	2161.5
17°	2251.6	2280.3	2294.1	2328.4	2294.3	2270.1	2240.4	2205.3	2172.0	2143.5	2124.6
17.5°	2215.5	2245.0	2258.4	2292.5	2258.2	2233.5	2204.8	2170.2	2135.6	2107.6	2087.3
18°	2179.8	2208.8	2222.8	2256.9	2222.3	2197.6	2168.9	2134.1	2099.0	2070.5	2049.6
18.5°	2144.2	2173.5	2186.7	2220.5	2185.9	2162.0	2133.0	2096.7	2062.8	2033.6	2012.7
19°	2108.1	2137.9	2149.8	2183.9	2150.1	2126.2	2096.2	2060.6	2025.7	1996.5	1976.1
19.5°	2072.8	2101.8	2114.2	2147.5	2113.7	2090.1	2059.5	2025.4	1989.3	1962.1	1941.8
20°	2036.6	2065.4	2077.3	2111.4	2077.6	2053.4	2024.2	1988.6	1955.5	1927.8	1907.2
20.5°	2000.8	2030.3	2042.0	2074.5	2041.0	2017.1	1988.1	1954.7	1921.7	1893.4	1872.6
21°	1965.7	1994.9	2007.1	2039.7	2005.1	1981.7	1954.2	1920.9	1887.8	1859.1	1838.0



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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°	1862.7	1890.4	1901.6	1932.1	1902.3	1879.7	1853.0	1819.4	1785.3	1756.6	1735.2
23°	1829.1	1855.8	1867.5	1897.5	1868.3	1845.6	1819.2	1785.1	1752.3	1722.5	1702.4
23.5°	1796.3	1822.2	1833.7	1863.2	1834.4	1811.5	1784.6	1752.0	1718.9	1690.0	1669.6
24°	1762.7	1789.4	1799.8	1828.6	1800.3	1778.0	1751.0	1719.5	1686.4	1657.4	1636.5
24.5°	1730.9	1756.6	1766.3	1794.7	1767.3	1743.4	1718.2	1686.9	1653.8	1625.6	1604.7
25°	1698.6	1724.0	1733.7	1762.2	1734.5	1711.1	1685.1	1654.1	1622.3	1593.8	1573.2
25.5°	1666.8	1691.7	1701.4	1729.6	1701.4	1679.5	1653.1	1622.8	1591.3	1562.3	1542.7
26°	1635.5	1661.2	1669.6	1696.8	1669.3	1648.2	1621.8	1591.8	1560.2	1531.7	1512.2
26.5°	1605.0	1628.7	1638.3	1663.8	1637.8	1615.9	1590.5	1560.5	1529.2	1501.2	1480.6
27°	1574.0	1597.6	1606.5	1632.5	1606.3	1583.9	1559.2	1530.0	1498.9	1471.2	1450.9
27.5°	1543.4	1567.1	1575.5	1601.4	1575.0	1554.6	1528.9	1499.4	1468.9	1441.7	1421.3
28°	1513.7	1537.8	1545.0	1570.7	1544.0	1523.9	1498.4	1470.2	1439.7	1411.9	1392.6
28.5°	1483.9	1508.1	1515.0	1540.1	1514.2	1493.3	1468.9	1440.4	1410.2	1383.2	1363.9
29°	1455.7	1478.1	1485.4	1509.4	1484.4	1464.1	1440.7	1411.9	1382.7	1355.5	1335.9
29.5°	1428.0	1449.8	1455.9	1480.1	1455.7	1435.6	1411.9	1384.2	1355.0	1328.5	1309.2
30°	1400.2	1422.4	1428.5	1451.9	1426.9	1407.9	1384.2	1357.0	1328.5	1301.5	1283.0
30.5°	1373.3	1394.9	1401.3	1423.9	1399.5	1380.1	1357.3	1329.8	1301.8	1275.3	1257.3
31°	1347.1	1368.2	1374.3	1395.9	1373.0	1353.9	1330.5	1303.8	1275.6	1249.7	1231.3
31.5°	1320.6	1341.5	1347.6	1369.2	1346.6	1328.0	1304.6	1278.4	1250.4	1224.7	1206.9
32°	1296.0	1316.8	1322.2	1342.8	1321.1	1301.8	1279.9	1253.7	1225.5	1199.8	1181.7
32.5°	1271.3	1291.4	1296.7	1316.8	1295.2	1276.6	1254.2	1227.8	1200.6	1174.6	1157.3
33°	1246.6	1266.4	1271.8	1291.6	1271.0	1251.7	1229.1	1201.6	1173.6	1146.9	1128.8
33.5°	1220.7	1240.5	1245.3	1266.2	1245.3	1226.8	1202.1	1171.8	1143.3	1114.8	1095.3
34°	1195.0	1214.0	1216.8	1240.5	1220.2	1200.6	1173.6	1140.5	1110.5	1081.5	1062.2
34.5°	1166.2	1185.3	1186.1	1212.8	1193.4	1173.1	1142.6	1108.0	1073.9	1047.2	1026.1
35°	1138.2	1154.8	1155.3	1182.3	1165.0	1144.9	1111.5	1075.7	1037.3	1012.1	991.0
35.5°	1107.2	1123.2	1124.5	1152.2	1135.7	1115.6	1080.0	1041.6	998.9	973.2	956.6
36°	1074.2	1090.4	1093.2	1121.0	1105.2	1084.3	1048.5	1007.3	963.0	934.5	922.0
36.5°	1037.8	1056.6	1061.9	1090.4	1071.6	1050.2	1015.1	971.9	927.4	896.6	884.7
37°	998.4	1022.0	1030.4	1059.1	1037.3	1014.1	981.1	936.3	893.3	859.2	848.5
37.5°	957.4	986.4	998.1	1027.1	1000.9	977.8	946.2	899.2	858.7	822.3	810.6
38°	917.7	951.3	964.3	994.3	963.5	940.9	910.9	863.8	824.6	786.2	773.5
38.5°	880.1	914.4	929.7	961.5	925.1	901.4	874.2	828.2	789.0	751.6	734.1
39°	842.4	876.5	894.8	928.2	886.9	861.3	837.9	793.3	753.9	718.3	698.2
39.5°	804.5	838.6	859.7	892.5	850.1	822.8	799.7	758.2	717.5	682.7	660.8
40°	766.9	800.7	824.6	856.9	813.2	786.2	761.3	723.6	680.7	647.1	625.5
40.5°	729.2	763.1	789.5	821.3	776.6	749.3	722.1	689.1	644.5	613.0	588.8
41°	693.4	725.2	754.7	785.7	741.5	713.5	683.2	654.2	611.0	578.9	554.0
41.5°	656.5	688.3	717.8	750.1	706.4	676.1	645.1	618.9	577.6	545.3	518.6
42°	621.4	653.7	680.7	712.7	672.0	641.0	607.9	583.0	545.3	512.0	484.6
42.5°	585.3	619.6	644.0	675.8	636.9	606.4	571.8	547.6	514.1	480.0	452.2
43°	550.4	585.0	606.6	640.0	602.3	571.8	536.9	513.0	482.5	450.2	421.7
43.5°	515.3	549.2	569.0	603.8	568.0	536.4	502.4	478.4	450.5	418.7	390.9



TEST NUMBER: P776058

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	419.2	449.7	462.7	498.3	468.3	437.2	406.0	379.2	357.6	330.7	308.3
45.5°	388.1	417.7	428.3	464.7	436.5	406.0	374.9	348.5	328.1	302.4	282.6
46°	359.2	386.4	395.8	431.1	406.5	375.2	345.7	318.7	299.9	276.0	258.7
46.5°	330.2	355.8	363.7	398.6	374.9	345.4	316.9	289.7	272.4	253.1	237.6
47°	302.2	326.6	332.2	366.3	344.1	318.5	289.2	265.0	247.2	230.4	216.7
47.5°	275.0	298.1	302.7	335.8	315.1	291.5	263.0	240.6	222.3	207.6	195.6
48°	249.5	270.1	274.5	305.2	287.7	265.0	239.6	216.2	197.1	184.9	174.5
48.5°	225.1	242.4	247.7	276.0	262.0	241.4	216.2	191.8	171.9	162.0	156.4
49°	202.0	216.7	222.3	249.5	236.0	217.7	193.1	167.4	150.3	143.5	139.4
49.5°	179.8	191.8	197.6	222.6	210.4	194.1	169.7	147.5	130.0	125.4	123.6
50°	158.0	168.1	174.5	197.9	184.7	170.7	149.8	129.2	111.7	109.6	108.9
50.5°	137.9	146.0	152.9	174.0	159.0	149.8	130.7	112.4	95.6	94.6	94.9
51°	118.8	125.9	132.8	152.4	137.6	129.7	113.7	96.9	81.6	81.6	82.2
51.5°	101.0	107.3	114.0	131.0	118.5	111.7	98.4	83.4	70.2	69.9	71.0
52°	84.4	91.1	96.4	112.2	100.5	94.4	84.2	70.7	60.0	59.5	60.5
52.5°	72.7	79.4	83.9	94.9	83.7	79.1	71.2	59.5	51.1	50.1	50.6
53°	61.0	67.7	71.5	82.7	69.2	65.4	59.3	49.9	43.5	42.0	42.0
53.5°	49.3	56.2	59.0	70.5	56.5	53.2	49.1	41.5	36.6	34.8	34.3
54°	37.9	44.5	46.5	58.2	45.5	43.0	40.2	34.1	30.5	30.8	30.3
54.5°	30.0	33.1	34.1	46.0	36.4	34.3	34.8	30.0	27.2	26.7	25.9
55°	23.9	25.9	26.7	33.8	31.5	30.0	29.5	25.9	23.9	22.4	21.6
55.5°	19.1	20.3	20.6	26.5	27.0	25.7	24.4	21.9	20.6	18.3	17.6
56°	16.0	16.5	16.3	20.3	22.1	21.4	19.3	18.1	17.3	14.2	13.2
56.5°	14.2	14.5	14.2	16.0	17.3	17.0	14.2	14.0	14.0	13.0	12.2
57°	13.2	13.2	13.0	13.7	12.7	12.7	13.0	13.0	13.0	12.2	11.4
57.5°	12.5	12.5	12.0	12.5	11.7	11.7	12.0	12.2	12.0	11.4	10.7
58°	11.4	11.4	11.2	11.4	10.9	10.9	11.2	11.4	11.2	10.7	9.9
58.5°	10.7	10.7	10.2	10.7	10.2	10.2	10.4	10.7	10.4	9.9	9.2
59°	9.9	9.9	9.7	9.9	9.4	9.4	9.7	9.9	9.7	9.2	8.6
59.5°	9.4	9.2	8.9	9.2	8.6	8.6	8.9	9.2	9.2	8.6	7.9
60°	8.6	8.6	8.4	8.6	8.1	8.1	8.4	8.4	8.4	7.9	7.4
60.5°	8.1	7.9	7.6	7.9	7.6	7.6	7.6	7.9	7.9	7.4	6.9
61°	7.4	7.4	7.1	7.4	6.9	7.1	7.1	7.4	7.4	6.9	6.4
61.5°	6.9	6.9	6.6	6.9	6.6	6.6	6.6	6.9	6.9	6.4	6.1
62°	6.4	6.4	6.1	6.4	6.1	6.1	6.4	6.4	6.4	6.1	5.6
62.5°	6.1	6.1	5.6	5.9	5.6	5.6	5.9	6.1	6.1	5.6	5.3
63°	5.6	5.6	5.3	5.6	5.3	5.3	5.3	5.6	5.6	5.3	4.8
63.5°	5.3	5.3	5.1	5.1	4.8	5.1	5.1	5.3	5.3	5.1	4.6
64°	5.1	4.8	4.6	4.8	4.6	4.6	4.8	5.1	5.1	4.8	4.3
64.5°	4.6	4.6	4.3	4.6	4.3	4.3	4.6	4.6	4.6	4.3	4.1
65°	4.3	4.3	4.1	4.3	4.1	4.1	4.3	4.3	4.3	4.1	3.8
65.5°	4.1	4.1	3.8	4.1	3.8	3.8	4.1	4.1	4.1	3.8	3.6
66°	3.8	3.8	3.6	3.8	3.6	3.6	3.8	3.8	3.8	3.6	3.3





TEST NUMBER: P776058

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	3.3	3.1	3.1	3.1	3.1	3.1	3.1	3.3	3.3	3.1	2.8
68°	3.1	3.1	2.8	2.8	2.8	2.8	2.8	3.1	3.1	2.8	2.8
68.5°	2.8	2.8	2.5	2.8	2.5	2.5	2.8	2.8	2.8	2.8	2.5
69°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	2.8	2.5	2.3
69.5°	2.5	2.5	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.3	2.3
70°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.0
70.5°	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.3	2.0	2.0
71°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.8
71.5°	2.0	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	1.8	1.8
72°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5
72.5°	1.8	1.8	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.5	1.5
73°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
73.5°	1.5	1.5	1.5	1.5	1.3	1.5	1.5	1.5	1.5	1.5	1.3
74°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.3	1.3
74.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	1.3	1.3	1.0	1.3	1.0	1.3	1.3	1.3	1.3	1.3	1.0
75.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.0	1.0
76°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8
77°	1.0	0.8	0.8	1.0	0.8	0.8	1.0	1.0	1.0	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
79°	0.8	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
82°	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
85°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.3	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: P776058  
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

**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: P776058

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2881.1	2881.1	2881.1	2881.1	2881.1	2881.1
0.5°	2875.0	2877.0	2877.0	2878.3	2880.3	2882.4
1°	2869.7	2872.7	2873.2	2875.5	2878.3	2881.9
1.5°	2862.8	2866.4	2867.6	2870.9	2875.5	2879.6
2°	2854.4	2859.5	2861.5	2865.8	2871.4	2877.0
2.5°	2845.0	2850.8	2853.4	2859.5	2866.6	2873.0
3°	2834.3	2841.2	2844.7	2851.6	2860.3	2867.9
3.5°	2822.4	2831.0	2834.8	2843.0	2852.6	2862.0
4°	2809.6	2818.3	2823.9	2832.8	2844.0	2854.7
4.5°	2795.4	2805.6	2811.4	2821.6	2834.3	2846.3
5°	2780.4	2791.1	2797.9	2809.1	2823.6	2836.8
5.5°	2763.6	2776.1	2783.2	2795.6	2811.9	2826.7
6°	2746.6	2760.0	2767.9	2781.1	2799.2	2814.7
6.5°	2728.0	2742.0	2751.4	2765.9	2785.0	2802.3
7°	2708.7	2723.4	2733.6	2749.4	2769.4	2787.8
7.5°	2688.3	2703.3	2714.2	2731.0	2752.7	2772.2
8°	2665.7	2682.2	2693.6	2712.0	2734.6	2755.7
8.5°	2642.0	2659.8	2672.5	2691.1	2715.8	2738.2
9°	2617.3	2635.4	2648.9	2669.2	2694.9	2719.1
9.5°	2590.9	2610.5	2624.5	2646.3	2673.6	2699.0
10°	2562.7	2582.5	2597.2	2621.9	2651.4	2677.9
10.5°	2532.1	2554.3	2570.0	2595.7	2627.0	2654.7
11°	2500.6	2524.8	2541.0	2567.2	2601.1	2630.8
11.5°	2469.3	2492.4	2511.8	2538.2	2573.1	2604.9
12°	2436.5	2460.7	2478.7	2508.7	2544.1	2576.9
12.5°	2402.9	2427.1	2446.2	2477.2	2514.3	2548.2
13°	2368.8	2393.5	2414.4	2445.6	2484.1	2518.4
13.5°	2334.0	2358.9	2380.8	2411.8	2451.5	2487.6
14°	2298.9	2324.8	2345.4	2377.7	2418.9	2455.6
14.5°	2262.5	2289.5	2310.3	2344.7	2385.1	2423.0
15°	2227.7	2253.1	2275.0	2309.3	2351.3	2389.2
15.5°	2191.0	2217.0	2239.9	2274.2	2316.7	2354.8
16°	2154.2	2180.6	2203.5	2237.3	2281.6	2320.5
16.5°	2117.8	2144.5	2167.6	2202.7	2246.5	2286.2
17°	2080.6	2108.1	2131.0	2166.9	2211.6	2251.6
17.5°	2044.3	2071.0	2094.4	2130.5	2175.8	2215.5
18°	2005.6	2033.6	2056.7	2093.1	2139.7	2179.8
18.5°	1969.7	1995.9	2019.9	2056.2	2103.5	2144.2
19°	1934.1	1959.8	1983.0	2021.4	2067.2	2108.1
19.5°	1898.5	1924.5	1947.9	1986.3	2032.1	2072.8
20°	1862.9	1888.9	1913.5	1950.4	1996.5	2036.6
20.5°	1827.6	1854.3	1878.7	1915.3	1961.6	2000.8
21°	1796.3	1818.4	1843.1	1880.0	1925.7	1965.7

TEST NUMBER: P776058

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1695.8	1717.4	1742.3	1779.7	1823.7	1862.7
23°	1663.0	1684.6	1708.8	1745.7	1790.2	1829.1
23.5°	1630.7	1652.1	1677.0	1713.9	1757.6	1796.3
24°	1599.7	1620.5	1645.2	1680.8	1725.3	1762.7
24.5°	1567.4	1589.0	1613.1	1649.8	1692.5	1730.9
25°	1537.1	1557.2	1581.8	1617.0	1661.0	1698.6
25.5°	1505.8	1526.9	1551.6	1586.7	1629.7	1666.8
26°	1475.5	1496.6	1521.3	1556.2	1598.9	1635.5
26.5°	1446.0	1467.1	1491.6	1526.1	1568.1	1605.0
27°	1416.3	1437.4	1461.5	1496.4	1537.8	1574.0
27.5°	1387.0	1408.6	1432.0	1466.6	1507.8	1543.4
28°	1359.0	1379.6	1403.3	1436.6	1478.3	1513.7
28.5°	1331.8	1351.7	1375.6	1408.6	1449.3	1483.9
29°	1305.4	1324.9	1348.6	1381.7	1421.3	1455.7
29.5°	1278.1	1298.5	1321.1	1354.2	1393.4	1428.0
30°	1252.2	1272.8	1295.4	1327.7	1366.9	1400.2
30.5°	1227.3	1247.4	1269.8	1301.3	1340.5	1373.3
31°	1202.9	1222.4	1245.3	1276.6	1314.5	1347.1
31.5°	1177.9	1197.8	1220.9	1251.9	1288.6	1320.6
32°	1152.7	1173.4	1195.7	1227.0	1263.9	1296.0
32.5°	1125.3	1148.9	1171.3	1202.9	1239.7	1271.3
33°	1094.5	1120.2	1143.8	1175.6	1215.3	1246.6
33.5°	1060.9	1088.4	1113.3	1145.9	1188.4	1220.7
34°	1024.6	1054.8	1080.5	1114.3	1158.9	1195.0
34.5°	988.4	1018.7	1044.6	1083.6	1128.8	1166.2
35°	953.1	982.3	1008.3	1050.0	1097.3	1138.2
35.5°	917.5	943.9	971.9	1017.2	1064.7	1107.2
36°	881.1	902.0	936.5	982.8	1030.9	1074.2
36.5°	843.2	866.3	914.2	947.7	996.6	1037.8
37°	805.6	831.2	876.8	912.9	961.5	998.4
37.5°	768.7	796.1	839.1	876.3	924.6	957.4
38°	730.3	760.8	801.5	839.6	885.9	917.7
38.5°	693.1	726.4	763.8	803.0	847.3	880.1
39°	657.5	691.3	728.5	766.4	808.6	842.4
39.5°	622.7	656.2	691.6	729.8	769.9	804.5
40°	587.6	621.1	655.0	693.6	731.0	766.9
40.5°	554.0	586.8	618.9	658.0	692.1	729.2
41°	520.4	553.0	583.2	622.4	653.2	693.4
41.5°	486.3	519.1	549.2	585.8	614.3	656.5
42°	453.0	488.1	516.1	551.4	578.2	621.4
42.5°	422.5	455.8	484.6	515.6	542.0	585.3
43°	391.2	427.1	453.0	480.5	508.7	550.4
43.5°	362.0	396.8	421.2	444.6	474.4	515.3



TEST NUMBER: P776058

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	281.8	310.6	329.4	346.4	381.0	419.2
45.5°	257.9	283.6	300.4	316.9	351.3	388.1
46°	236.6	256.9	272.4	288.4	323.3	359.2
46.5°	215.2	231.2	245.2	261.7	296.1	330.2
47°	193.8	207.6	219.8	236.6	269.9	302.2
47.5°	172.5	185.2	195.6	212.4	244.4	275.0
48°	154.4	163.6	173.0	189.8	220.3	249.5
48.5°	137.4	143.7	151.6	168.6	197.1	225.1
49°	120.8	125.7	131.5	149.3	175.0	202.0
49.5°	106.1	108.9	113.2	131.5	154.6	179.8
50°	92.6	93.1	96.9	114.5	135.3	158.0
50.5°	79.9	82.9	86.2	99.2	117.8	137.9
51°	68.4	72.5	75.5	85.2	101.7	118.8
51.5°	57.7	62.3	64.9	74.5	86.7	101.0
52°	48.6	52.1	54.2	64.1	75.5	84.4
52.5°	40.2	41.7	43.5	53.4	64.4	72.7
53°	32.8	34.8	36.6	43.0	53.4	61.0
53.5°	28.7	28.5	30.3	35.4	42.5	49.3
54°	24.9	23.4	24.9	28.5	34.1	37.9
54.5°	20.9	19.1	20.3	22.9	27.2	30.0
55°	16.8	15.8	16.5	18.3	21.6	23.9
55.5°	12.7	13.5	14.0	15.3	17.3	19.1
56°	11.7	12.2	12.7	13.5	15.0	16.0
56.5°	10.9	11.4	11.7	12.5	13.5	14.2
57°	10.2	10.7	10.9	11.7	12.5	13.2
57.5°	9.7	9.9	10.2	10.7	11.7	12.5
58°	8.9	9.4	9.7	9.9	10.9	11.4
58.5°	8.1	8.6	8.9	9.4	10.2	10.7
59°	7.6	8.1	8.4	8.6	9.4	9.9
59.5°	7.1	7.4	7.6	8.1	8.9	9.4
60°	6.6	6.9	7.1	7.4	8.1	8.6
60.5°	6.1	6.4	6.6	6.9	7.6	8.1
61°	5.9	6.1	6.1	6.4	6.9	7.4
61.5°	5.3	5.6	5.9	6.1	6.6	6.9
62°	5.1	5.3	5.3	5.6	6.1	6.4
62.5°	4.8	4.8	5.1	5.3	5.6	6.1
63°	4.6	4.6	4.8	4.8	5.3	5.6
63.5°	4.3	4.3	4.3	4.6	5.1	5.3
64°	4.1	4.1	4.1	4.3	4.8	5.1
64.5°	3.8	3.8	3.8	4.1	4.3	4.6
65°	3.6	3.6	3.6	3.8	4.1	4.3
65.5°	3.3	3.3	3.6	3.6	3.8	4.1
66°	3.1	3.3	3.3	3.3	3.6	3.8



TEST NUMBER: P776058

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.5	2.5	2.8	2.8	3.1	3.3
68°	2.5	2.5	2.5	2.5	2.8	3.1
68.5°	2.3	2.3	2.3	2.5	2.8	2.8
69°	2.0	2.3	2.3	2.3	2.5	2.5
69.5°	2.0	2.0	2.0	2.3	2.3	2.5
70°	1.8	2.0	2.0	2.0	2.3	2.3
70.5°	1.8	1.8	1.8	2.0	2.0	2.3
71°	1.8	1.8	1.8	1.8	2.0	2.0
71.5°	1.5	1.5	1.5	1.8	1.8	2.0
72°	1.5	1.5	1.5	1.5	1.8	1.8
72.5°	1.3	1.5	1.5	1.5	1.5	1.8
73°	1.3	1.3	1.3	1.5	1.5	1.5
73.5°	1.3	1.3	1.3	1.3	1.5	1.5
74°	1.3	1.3	1.3	1.3	1.3	1.3
74.5°	1.0	1.0	1.0	1.3	1.3	1.3
75°	1.0	1.0	1.0	1.0	1.0	1.3
75.5°	1.0	1.0	1.0	1.0	1.0	1.0
76°	0.8	1.0	1.0	1.0	1.0	1.0
76.5°	0.8	0.8	0.8	0.8	1.0	1.0
77°	0.8	0.8	0.8	0.8	0.8	1.0
77.5°	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.5	0.5	0.5	0.5	0.8	0.8
79°	0.5	0.5	0.5	0.5	0.5	0.8
79.5°	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.3	0.5	0.5	0.5	0.5	0.5
81.5°	0.3	0.3	0.3	0.3	0.3	0.5
82°	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.0	0.3
85°	0.0	0.0	0.3	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: P776058

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-4000K

**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°	1931.3	1958.6	1971.8	2004.6	1970.3	1947.6	1920.4	1887.1	1853.8	1824.8	1803.6
22°	1896.2	1923.7	1935.7	1968.2	1936.4	1913.8	1886.8	1853.2	1819.9	1789.9	1769.3



44°	482.8	515.3	533.6	568.0	533.9	501.1	469.0	444.4	418.7	388.7	362.2
44.5°	451.2	482.3	497.8	532.4	500.6	468.8	437.2	410.8	387.6	358.6	334.5



66.5°	3.6	3.6	3.3	3.6	3.3	3.3	3.6	3.6	3.6	3.6	3.3
67°	3.3	3.3	3.3	3.3	3.1	3.3	3.3	3.3	3.6	3.3	3.1



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°	1763.0	1784.6	1809.8	1846.6	1891.7	1931.3
22°	1728.9	1750.5	1774.9	1812.0	1857.8	1896.2



44°	333.5	367.3	389.9	411.0	441.8	482.8
44.5°	307.3	338.3	359.4	377.2	410.8	451.2

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66.5°	2.8	3.1	3.1	3.3	3.6	3.6
67°	2.8	2.8	2.8	3.1	3.3	3.3

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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)