

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: P775953

Luminaire Tested: HCDJBS1525CSD-HCD42TRC-2500lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775953  
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-4000K  
Description: 4 INCH ROUND NARROW SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

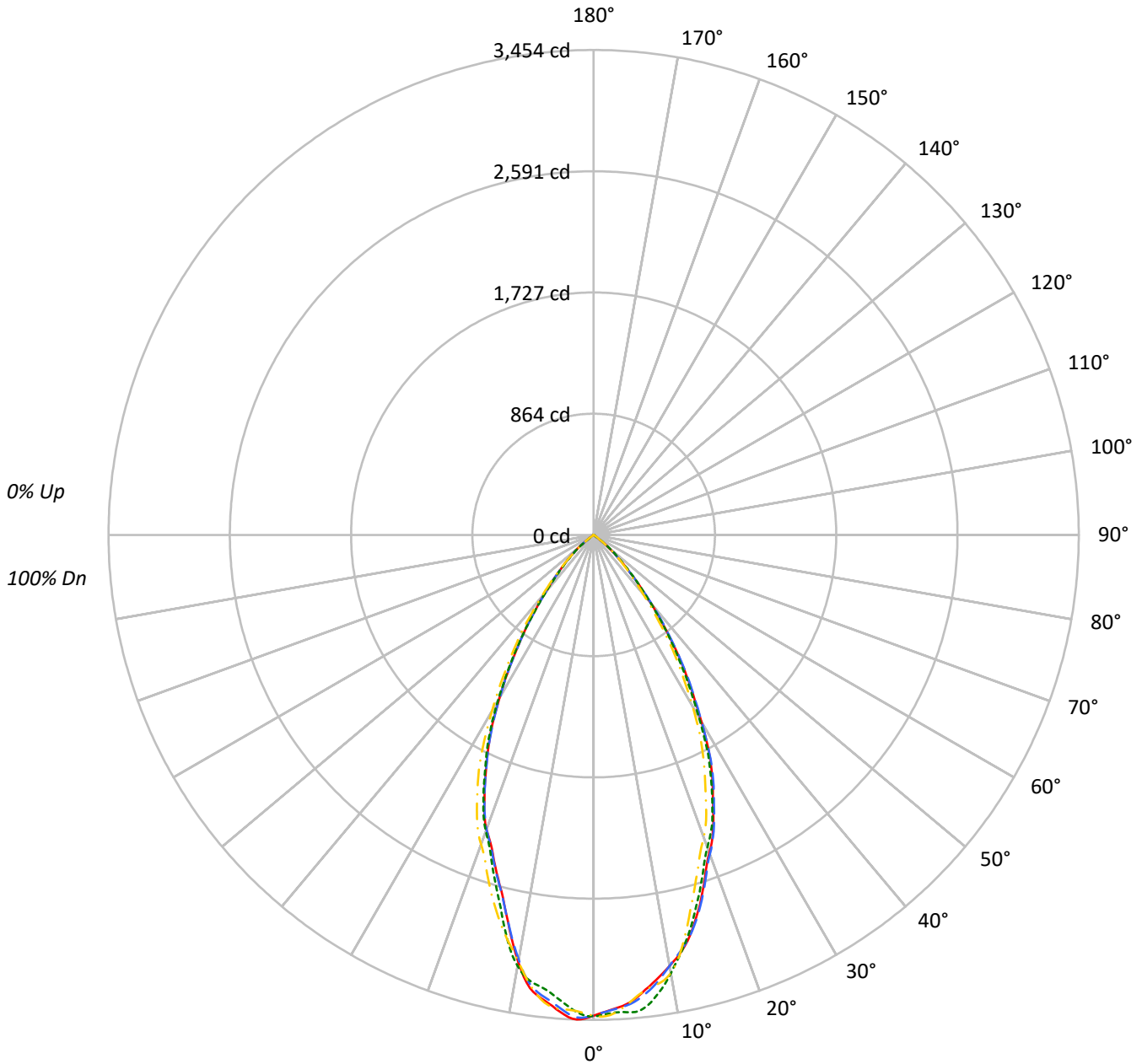
Lumens per Lamp: N/A  
Luminaire Lumens: 2818.2 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.81 / 0.84  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (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: P775953  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-4000K

### 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								
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°	430998	430998	430998	430998
5°	419556	430901	425671	415514
10°	398274	404932	394760	398568
15°	367572	362504	336550	344368
20°	322562	317085	298790	300732
25°	278664	276262	250906	253516
30°	222672	217760	195323	198200
35°	162361	157752	137579	138517
40°	103779	102908	88238	86266
45°	57968	59552	52753	51258
50°	26353	28135	26157	25159
55°	1558	1514	1229	1404
60°	453	579	503	503
65°	238	298	298	298
70°	184	184	184	184
75°	146	146	146	146
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 59552 cd/sqm



TEST NUMBER: P775953

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.5	11.1
10°-20°	756.1	26.8
20°-30°	867.4	30.8
30°-40°	606.3	21.5
40°-50°	247.3	8.8
50°-60°	27.2	1.0
60°-70°	1.1	0.0
70°-80°	0.3	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°	1936.0	68.7
0°-40°	2542.3	90.2
0°-60°	2816.8	100.0
0°-90°	2818.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3425	3425	3425	3425	3425	
5°	3321	3411	3370	3289	3321	310
15°	2821	2782	2583	2643	2821	782
25°	2007	1990	1807	1826	2007	914
35°	1057	1027	896	902	1057	656
45°	326	335	296	288	326	261
55°	7	7	6	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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CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3424.7	3424.7	3424.7	3424.7	3424.7	3424.7	3424.7	3424.7	3424.7	3424.7	3424.7
0.5°	3413.7	3413.5	3413.5	3414.2	3426.2	3427.2	3430.3	3433.3	3434.6	3434.3	3431.0
1°	3404.6	3403.8	3405.1	3407.1	3420.1	3424.4	3431.5	3439.2	3444.3	3444.0	3437.7
1.5°	3395.7	3394.7	3396.9	3401.0	3414.5	3419.1	3428.5	3440.7	3451.1	3451.6	3440.7
2°	3387.3	3385.0	3389.3	3396.7	3408.9	3411.7	3420.6	3436.6	3453.7	3455.7	3438.2
2.5°	3379.1	3374.8	3381.7	3394.1	3405.3	3403.3	3408.4	3425.9	3448.8	3453.7	3429.5
3°	3370.7	3362.9	3374.8	3394.1	3404.1	3394.1	3393.4	3410.9	3438.4	3444.3	3415.5
3.5°	3361.6	3349.1	3367.4	3397.2	3405.1	3384.7	3375.8	3393.1	3423.7	3431.0	3398.7
4°	3351.2	3334.4	3359.5	3401.3	3408.4	3374.3	3356.2	3373.3	3406.6	3414.0	3380.9
4.5°	3337.7	3316.0	3349.9	3405.8	3410.9	3362.1	3335.6	3352.9	3388.3	3396.2	3362.3
5°	3321.1	3296.2	3338.4	3407.6	3410.9	3346.8	3315.0	3332.8	3369.5	3378.6	3344.3
5.5°	3301.8	3275.3	3323.2	3404.1	3405.1	3329.0	3294.9	3314.8	3352.2	3360.6	3327.5
6°	3281.4	3254.5	3305.4	3394.1	3392.4	3308.2	3276.9	3298.7	3336.1	3342.8	3312.2
6.5°	3260.3	3235.9	3286.3	3376.8	3374.8	3288.8	3261.6	3285.5	3320.4	3325.2	3297.2
7°	3240.7	3220.4	3266.4	3352.9	3352.9	3270.0	3250.1	3274.1	3302.8	3305.9	3280.9
7.5°	3220.6	3206.6	3245.3	3322.9	3327.2	3251.9	3241.2	3263.6	3283.2	3281.7	3261.1
8°	3201.3	3194.4	3222.4	3287.0	3300.3	3235.4	3232.8	3251.2	3258.0	3251.4	3235.6
8.5°	3179.7	3183.7	3196.7	3245.6	3270.8	3218.1	3223.9	3234.6	3224.5	3214.0	3203.1
9°	3158.6	3173.8	3170.0	3201.6	3239.7	3199.3	3210.0	3212.0	3184.8	3169.5	3165.4
9.5°	3136.9	3164.4	3143.3	3157.5	3204.6	3179.9	3191.1	3182.5	3137.7	3118.4	3120.1
10°	3116.6	3156.3	3116.6	3114.0	3168.7	3158.3	3167.2	3146.9	3089.1	3063.4	3073.3
10.5°	3095.2	3148.1	3090.9	3075.1	3132.1	3133.9	3136.4	3106.9	3038.0	3003.4	3025.0
11°	3074.3	3138.7	3066.5	3039.2	3095.7	3105.6	3100.6	3063.4	2985.0	2942.8	2975.9
11.5°	3051.2	3124.7	3042.0	3007.4	3061.1	3073.1	3057.8	3018.1	2930.1	2882.0	2924.2
12°	3026.5	3103.9	3017.9	2978.4	3025.0	3035.7	3012.5	2971.6	2876.4	2820.4	2871.8
12.5°	2998.3	3075.4	2992.4	2951.7	2988.1	2992.9	2961.9	2923.2	2822.0	2761.2	2818.4
13°	2968.8	3040.5	2966.7	2925.0	2951.2	2947.9	2910.8	2873.6	2768.0	2706.0	2768.8
13.5°	2934.7	3001.1	2937.0	2895.7	2911.3	2898.3	2857.6	2820.7	2716.6	2653.8	2718.2
14°	2899.3	2958.1	2904.9	2863.2	2868.5	2847.9	2805.2	2771.8	2668.0	2606.7	2670.6
14.5°	2861.1	2913.3	2869.5	2829.3	2825.5	2795.8	2753.3	2721.5	2622.8	2562.2	2626.8
15°	2821.2	2866.0	2832.1	2793.7	2782.3	2745.4	2704.7	2674.7	2583.1	2521.0	2587.4
15.5°	2781.8	2821.2	2793.0	2758.4	2739.0	2698.1	2657.9	2628.6	2543.1	2483.3	2548.7
16°	2740.8	2775.4	2752.8	2721.0	2696.3	2652.0	2611.6	2584.1	2504.7	2446.2	2510.6
16.5°	2698.6	2728.1	2711.3	2681.8	2653.5	2605.7	2564.5	2537.8	2464.5	2408.8	2470.6
17°	2653.8	2680.5	2668.0	2639.8	2609.0	2559.4	2520.2	2491.5	2425.1	2371.4	2431.4
17.5°	2609.5	2631.4	2624.0	2597.6	2563.7	2512.9	2475.7	2445.7	2384.9	2334.5	2391.5
18°	2563.7	2583.1	2578.2	2554.6	2520.2	2466.8	2432.2	2402.7	2347.0	2299.9	2354.4
18.5°	2519.2	2536.5	2533.0	2511.8	2476.2	2423.6	2390.7	2360.5	2313.4	2269.1	2319.2
19°	2477.7	2493.3	2490.5	2471.9	2436.3	2384.4	2354.1	2325.1	2284.1	2242.4	2290.2
19.5°	2441.4	2455.1	2452.6	2437.3	2399.1	2351.0	2322.0	2293.0	2257.7	2217.0	2260.5
20°	2408.5	2420.5	2419.0	2406.3	2367.6	2320.0	2291.8	2262.0	2231.0	2190.0	2231.0
20.5°	2379.0	2387.9	2387.9	2378.0	2338.1	2289.2	2260.0	2227.9	2200.2	2158.5	2197.1
21°	2345.4	2353.3	2353.3	2348.5	2308.3	2255.6	2222.6	2189.2	2164.6	2122.8	2159.5



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CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2226.9	2235.0	2239.1	2247.0	2205.3	2141.9	2093.1	2048.0	2031.8	1996.6	2032.3
23°	2179.8	2191.0	2194.6	2206.3	2163.0	2098.9	2045.0	1997.7	1986.7	1955.4	1986.5
23.5°	2134.0	2148.0	2151.1	2165.1	2119.5	2057.5	1996.1	1951.4	1941.7	1914.0	1940.9
24°	2089.8	2105.3	2106.8	2121.1	2076.5	2017.0	1954.2	1905.1	1896.9	1872.7	1895.4
24.5°	2047.5	2065.3	2065.6	2075.5	2032.5	1974.3	1912.2	1858.8	1851.9	1831.3	1849.8
25°	2006.8	2025.9	2022.9	2027.2	1989.5	1933.0	1870.2	1812.5	1806.9	1789.8	1804.1
25.5°	1967.9	1987.5	1982.9	1980.6	1945.0	1892.1	1828.2	1769.2	1763.9	1749.4	1758.5
26°	1926.9	1948.8	1940.2	1931.0	1900.5	1850.9	1786.2	1727.5	1721.6	1706.1	1716.0
26.5°	1885.0	1908.1	1897.2	1882.4	1855.7	1809.7	1744.3	1684.7	1677.1	1661.6	1671.3
27°	1840.9	1864.4	1850.6	1830.8	1810.9	1762.1	1701.3	1642.5	1632.6	1615.8	1626.0
27.5°	1794.9	1819.1	1802.8	1781.9	1766.1	1715.0	1656.5	1598.5	1586.5	1568.7	1580.2
28°	1745.5	1771.5	1751.9	1730.8	1713.0	1665.9	1610.7	1550.7	1539.5	1520.6	1532.3
28.5°	1693.6	1722.4	1698.7	1681.9	1658.5	1615.8	1560.3	1502.3	1489.9	1469.8	1483.0
29°	1638.9	1674.0	1644.5	1631.3	1604.6	1566.2	1509.7	1453.5	1441.3	1419.4	1434.9
29.5°	1586.0	1622.9	1590.9	1582.2	1551.2	1514.8	1458.3	1402.6	1392.7	1369.0	1385.5
30°	1532.3	1571.3	1538.4	1532.8	1498.5	1463.4	1407.4	1352.7	1344.1	1321.2	1336.9
30.5°	1479.7	1519.6	1487.1	1483.7	1446.6	1412.5	1356.3	1305.1	1295.7	1271.3	1288.1
31°	1428.8	1467.0	1437.4	1433.1	1399.0	1364.4	1307.2	1259.4	1248.9	1223.7	1242.6
31.5°	1379.4	1416.1	1390.4	1384.0	1346.4	1315.3	1260.6	1213.8	1202.6	1177.4	1195.7
32°	1331.9	1365.4	1343.8	1334.7	1298.8	1267.0	1214.6	1170.3	1156.3	1135.5	1150.5
32.5°	1285.0	1314.8	1298.0	1286.3	1251.0	1216.9	1169.3	1125.8	1109.2	1090.9	1105.7
33°	1240.0	1265.7	1253.5	1239.0	1207.2	1169.8	1124.0	1082.8	1064.7	1048.7	1060.9
33.5°	1194.5	1217.1	1206.9	1193.0	1158.6	1121.7	1080.2	1040.6	1019.7	1006.5	1017.7
34°	1148.9	1168.8	1160.9	1148.2	1112.8	1076.4	1036.0	997.8	978.5	967.5	974.4
34.5°	1102.6	1119.7	1114.6	1104.4	1069.1	1029.6	992.0	953.5	936.0	926.3	933.2
35°	1056.8	1071.6	1068.8	1059.9	1026.8	985.1	946.7	911.1	895.5	886.9	892.5
35.5°	1011.6	1024.5	1023.3	1016.4	983.1	940.8	902.7	869.6	855.9	847.7	852.5
36°	966.5	978.5	977.5	972.4	940.6	899.6	858.6	828.9	817.9	810.6	812.6
36.5°	920.5	933.2	933.2	926.8	899.1	855.3	814.9	786.7	778.5	771.9	773.9
37°	878.0	891.2	890.7	884.6	859.9	813.9	772.1	745.7	740.3	736.8	735.8
37.5°	835.5	849.2	848.2	842.4	817.7	773.2	731.7	707.8	702.9	701.7	698.9
38°	793.0	807.0	806.0	799.9	778.5	735.3	692.3	669.9	667.6	667.6	662.5
38.5°	750.5	765.0	763.5	757.6	739.3	697.1	654.9	632.5	633.2	634.5	628.1
39°	708.0	723.0	721.0	715.4	702.4	660.5	618.5	596.1	599.9	603.0	594.8
39.5°	668.6	683.1	681.1	677.3	662.5	625.4	583.1	561.2	567.3	571.4	563.0
40°	631.7	644.9	641.4	640.4	626.4	591.8	549.0	527.1	537.1	541.6	531.7
40.5°	594.8	608.3	602.2	605.0	591.0	559.2	516.2	495.3	508.3	512.9	503.0
41°	558.2	573.2	565.8	569.9	557.7	528.4	485.4	464.6	480.6	485.9	475.0
41.5°	523.6	538.6	530.7	536.1	524.6	498.4	456.4	437.1	454.1	459.7	448.3
42°	492.5	506.5	497.9	503.0	495.1	470.2	429.2	410.9	428.2	434.8	422.8
42.5°	462.0	475.0	465.8	470.2	465.1	443.2	404.0	387.5	404.5	410.9	398.2
43°	432.5	444.2	435.6	439.6	437.1	417.0	380.6	365.6	381.1	387.7	375.0
43.5°	403.0	413.7	406.8	409.4	409.9	391.8	358.5	345.5	358.5	365.1	352.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	325.7	331.0	328.4	329.7	334.6	324.1	299.2	288.8	296.4	301.7	292.6
45.5°	300.5	306.1	304.3	306.8	312.2	302.0	281.1	271.7	277.6	281.9	274.3
46°	278.8	283.4	281.6	284.7	289.5	281.4	263.3	254.9	259.2	262.6	256.5
46.5°	256.5	260.8	259.5	262.8	268.9	262.0	246.8	239.1	242.5	245.3	239.9
47°	236.4	239.4	238.9	242.7	248.8	244.5	230.5	223.4	225.9	228.2	223.6
47.5°	215.5	218.5	218.5	223.1	230.2	226.7	214.2	207.6	209.1	210.9	207.1
48°	197.2	199.7	199.5	204.0	211.7	209.1	197.9	191.8	192.3	193.6	190.8
48.5°	179.6	181.9	181.9	186.5	193.1	191.3	181.7	176.3	175.8	176.3	174.5
49°	164.4	165.6	165.6	169.7	174.8	173.8	166.9	161.8	161.3	162.1	160.3
49.5°	149.3	149.9	150.1	153.2	158.8	158.2	152.9	148.1	147.1	148.1	146.5
50°	134.6	134.6	134.8	137.9	143.7	143.2	137.9	134.1	133.6	134.3	132.6
50.5°	119.1	119.1	118.8	121.6	128.0	127.5	123.1	119.3	119.3	119.8	118.0
51°	102.3	102.0	101.5	103.8	110.7	110.4	106.3	103.0	103.3	103.3	101.5
51.5°	83.7	83.4	83.2	83.4	92.4	92.1	89.3	86.5	86.8	86.2	84.7
52°	68.4	68.2	68.2	68.4	73.5	72.5	70.5	68.9	69.2	68.2	66.7
52.5°	53.2	52.9	53.4	53.4	56.2	54.7	53.2	52.4	51.9	51.4	50.1
53°	37.9	37.9	38.4	38.2	46.3	45.0	43.5	43.0	42.5	42.2	41.2
53.5°	22.6	22.9	23.7	23.4	36.4	35.4	34.1	33.6	33.3	33.1	32.1
54°	13.7	14.0	14.5	14.5	26.2	25.4	24.7	24.2	24.2	23.9	23.2
54.5°	8.1	8.4	8.9	8.7	16.3	15.8	15.3	15.0	15.0	14.8	14.0
55°	7.1	7.1	7.4	7.4	6.9	6.4	5.9	5.6	5.6	5.6	5.6
55.5°	5.9	5.9	6.1	6.1	5.3	5.1	4.6	4.6	4.3	4.3	4.6
56°	4.6	4.6	4.8	5.1	4.6	4.3	4.1	3.8	3.8	3.8	4.1
56.5°	3.3	3.3	3.6	3.8	4.1	3.8	3.6	3.6	3.3	3.6	3.6
57°	3.1	3.1	3.3	3.6	3.8	3.6	3.3	3.1	3.1	3.1	3.3
57.5°	2.8	2.8	3.1	3.3	3.3	3.3	3.1	2.8	2.8	2.8	3.1
58°	2.5	2.5	2.8	3.1	3.1	3.1	2.8	2.8	2.5	2.5	2.8
58.5°	2.3	2.3	2.5	2.8	2.8	2.8	2.5	2.5	2.3	2.5	2.5
59°	2.0	2.3	2.3	2.5	2.8	2.5	2.3	2.3	2.3	2.3	2.3
59.5°	2.0	2.0	2.3	2.3	2.5	2.3	2.3	2.0	2.0	2.0	2.3
60°	1.8	1.8	2.0	2.3	2.3	2.3	2.0	2.0	2.0	2.0	2.0
60.5°	1.8	1.8	1.8	2.0	2.0	2.0	1.8	1.8	1.8	1.8	1.8
61°	1.5	1.5	1.8	1.8	2.0	1.8	1.8	1.8	1.5	1.8	1.8
61.5°	1.5	1.5	1.5	1.8	1.8	1.8	1.5	1.5	1.5	1.5	1.5
62°	1.3	1.3	1.5	1.5	1.8	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.5
63°	1.3	1.3	1.3	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3
63.5°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
64°	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.3
64.5°	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0
65°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.0
66°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8





TEST NUMBER: P775953  
 CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-4000K

**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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
68°	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
68.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.8	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°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
72°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
77.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
78°	0.0	0.0	0.0	0.0	0.3	0.3	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: P775953  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-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: P775953

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3424.7	3424.7	3424.7	3424.7	3424.7	3424.7
0.5°	3426.2	3429.3	3421.9	3418.1	3415.5	3413.7
1°	3428.2	3424.7	3415.0	3409.9	3406.9	3404.6
1.5°	3425.4	3415.3	3406.1	3401.8	3399.2	3395.7
2°	3416.8	3402.0	3394.9	3394.7	3392.9	3387.3
2.5°	3402.3	3385.0	3383.5	3389.6	3388.5	3379.1
3°	3384.5	3366.2	3372.3	3386.5	3386.0	3370.7
3.5°	3364.1	3346.6	3360.8	3385.2	3385.2	3361.6
4°	3344.0	3327.7	3348.9	3384.5	3385.2	3351.2
4.5°	3323.9	3308.4	3334.9	3383.0	3383.7	3337.7
5°	3305.4	3289.1	3319.1	3377.6	3378.4	3321.1
5.5°	3288.3	3271.3	3300.0	3365.9	3367.9	3301.8
6°	3273.3	3256.3	3280.2	3348.6	3351.9	3281.4
6.5°	3261.6	3243.8	3259.8	3326.5	3330.5	3260.3
7°	3251.9	3233.1	3240.0	3300.8	3305.1	3240.7
7.5°	3242.8	3223.4	3220.1	3271.0	3271.8	3220.6
8°	3232.3	3211.7	3199.0	3240.5	3238.7	3201.3
8.5°	3216.6	3196.0	3177.9	3204.6	3199.3	3179.7
9°	3194.9	3175.6	3154.2	3165.9	3159.8	3158.6
9.5°	3165.7	3149.7	3128.5	3125.2	3118.1	3136.9
10°	3130.1	3118.9	3100.8	3086.6	3080.2	3116.6
10.5°	3088.3	3085.5	3071.0	3048.9	3045.3	3095.2
11°	3043.6	3046.1	3038.5	3014.6	3012.8	3074.3
11.5°	2997.3	2999.5	3002.3	2981.0	2982.2	3051.2
12°	2947.1	2949.7	2963.2	2948.4	2955.0	3026.5
12.5°	2895.2	2897.8	2920.9	2914.6	2928.1	2998.3
13°	2844.1	2844.1	2876.9	2880.7	2901.3	2968.8
13.5°	2790.9	2790.4	2829.3	2843.3	2872.1	2934.7
14°	2736.2	2738.5	2780.0	2805.4	2841.6	2899.3
14.5°	2685.3	2689.7	2731.7	2766.5	2808.2	2861.1
15°	2636.8	2643.1	2683.8	2727.8	2774.4	2821.2
15.5°	2590.5	2598.1	2637.8	2689.2	2740.3	2781.8
16°	2544.9	2553.3	2591.7	2649.5	2703.9	2740.8
16.5°	2499.4	2509.8	2545.9	2608.0	2665.8	2698.6
17°	2453.1	2465.8	2501.4	2566.0	2625.1	2653.8
17.5°	2407.0	2421.5	2455.6	2524.0	2583.8	2609.5
18°	2362.5	2378.8	2411.3	2481.6	2541.9	2563.7
18.5°	2320.8	2341.4	2369.9	2439.8	2499.9	2519.2
19°	2284.6	2306.5	2334.3	2402.9	2461.7	2477.7
19.5°	2252.1	2276.2	2302.7	2372.4	2429.4	2441.4
20°	2220.5	2245.5	2271.4	2344.9	2401.2	2408.5
20.5°	2185.9	2214.2	2239.9	2316.7	2372.9	2379.0
21°	2147.5	2178.3	2205.5	2285.2	2342.4	2345.4



TEST NUMBER: P775953

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2014.2	2052.4	2091.8	2171.4	2230.2	2226.9
23°	1968.9	2006.8	2049.3	2127.7	2185.2	2179.8
23.5°	1923.9	1961.5	2007.6	2082.6	2140.4	2134.0
24°	1878.6	1915.0	1965.6	2038.6	2093.8	2089.8
24.5°	1833.6	1869.9	1923.9	1995.1	2048.8	2047.5
25°	1788.3	1825.7	1879.1	1951.9	2003.3	2006.8
25.5°	1747.8	1783.7	1837.4	1908.4	1957.5	1967.9
26°	1706.4	1741.2	1793.4	1862.6	1909.9	1926.9
26.5°	1663.4	1698.7	1748.8	1815.2	1862.8	1885.0
27°	1620.1	1655.5	1700.8	1765.6	1813.0	1840.9
27.5°	1574.1	1609.4	1653.7	1713.7	1762.6	1794.9
28°	1527.3	1562.6	1603.1	1658.3	1711.7	1745.5
28.5°	1476.9	1514.0	1551.7	1604.8	1663.9	1693.6
29°	1426.5	1465.2	1499.0	1551.4	1612.0	1638.9
29.5°	1376.9	1413.5	1447.6	1499.3	1562.1	1586.0
30°	1329.3	1363.9	1397.2	1447.6	1510.7	1532.3
30.5°	1282.5	1313.8	1345.9	1398.3	1460.6	1479.7
31°	1238.5	1264.4	1297.3	1348.4	1410.5	1428.8
31.5°	1194.0	1216.1	1249.7	1300.1	1361.1	1379.4
32°	1152.5	1168.3	1202.9	1252.5	1311.5	1331.9
32.5°	1108.5	1123.0	1156.3	1203.4	1262.9	1285.0
33°	1066.5	1078.2	1111.3	1156.6	1216.6	1240.0
33.5°	1023.0	1034.7	1065.7	1110.8	1171.3	1194.5
34°	979.2	990.4	1020.5	1065.7	1126.0	1148.9
34.5°	936.5	945.4	977.0	1022.7	1082.0	1102.6
35°	895.0	901.6	932.4	979.0	1037.8	1056.8
35.5°	853.8	859.9	891.7	938.0	995.3	1011.6
36°	814.4	817.9	851.0	909.5	951.0	966.5
36.5°	774.4	776.2	810.6	867.0	902.9	920.5
37°	737.5	734.5	769.9	824.0	861.2	878.0
37.5°	698.4	695.6	729.4	781.3	819.7	835.5
38°	660.7	659.2	691.8	738.6	778.0	793.0
38.5°	623.8	623.3	656.1	700.4	736.5	750.5
39°	586.9	590.2	621.8	663.5	698.1	708.0
39.5°	551.3	555.9	588.2	627.4	659.7	668.6
40°	517.5	525.1	555.4	591.5	623.6	631.7
40.5°	485.4	494.1	525.1	557.9	588.2	594.8
41°	456.4	466.3	495.6	525.4	554.1	558.2
41.5°	429.5	439.1	467.6	494.8	521.3	523.6
42°	404.3	413.4	442.4	465.6	488.7	492.5
42.5°	381.6	390.3	416.5	438.1	458.5	462.0
43°	360.3	367.4	391.8	410.1	428.7	432.5
43.5°	340.4	346.0	368.1	383.7	400.2	403.0



TEST NUMBER: P775953

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	285.7	288.0	303.8	311.7	321.6	325.7
45.5°	268.7	270.2	283.4	289.8	298.4	300.5
46°	252.1	252.9	263.6	269.2	277.1	278.8
46.5°	236.4	235.3	244.2	248.8	255.9	256.5
47°	220.8	218.8	225.7	229.2	235.8	236.4
47.5°	205.3	202.5	207.3	210.7	216.8	215.5
48°	189.8	186.7	190.8	193.1	198.4	197.2
48.5°	174.0	172.0	174.8	176.3	180.9	179.6
49°	160.3	157.7	160.3	161.0	165.4	164.4
49.5°	146.5	143.5	145.8	145.8	150.1	149.3
50°	132.3	128.5	130.8	131.0	135.1	134.6
50.5°	117.5	112.7	115.2	115.2	119.3	119.1
51°	101.0	95.2	97.4	98.5	102.5	102.3
51.5°	84.5	80.1	82.2	82.9	84.0	83.7
52°	66.1	65.1	66.7	67.4	68.4	68.4
52.5°	50.6	50.1	51.4	51.9	52.9	53.2
53°	41.5	35.1	35.9	36.4	37.7	37.9
53.5°	32.6	20.1	20.6	21.1	22.1	22.6
54°	23.4	12.0	12.5	12.7	13.5	13.7
54.5°	14.5	7.1	7.6	7.6	7.9	8.1
55°	5.9	6.4	6.6	6.4	6.6	7.1
55.5°	4.8	5.6	5.6	5.6	5.6	5.9
56°	4.3	4.6	4.6	4.6	4.6	4.6
56.5°	3.8	3.8	3.6	3.6	3.3	3.3
57°	3.6	3.3	3.3	3.1	3.1	3.1
57.5°	3.3	3.1	3.1	2.8	2.8	2.8
58°	3.1	2.8	2.8	2.5	2.5	2.5
58.5°	2.8	2.8	2.5	2.5	2.3	2.3
59°	2.5	2.5	2.3	2.3	2.3	2.0
59.5°	2.3	2.3	2.3	2.0	2.0	2.0
60°	2.3	2.0	2.0	2.0	1.8	1.8
60.5°	2.0	2.0	2.0	1.8	1.8	1.8
61°	1.8	1.8	1.8	1.8	1.5	1.5
61.5°	1.8	1.8	1.8	1.5	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.3	1.3
62.5°	1.5	1.5	1.5	1.3	1.3	1.3
63°	1.5	1.5	1.3	1.3	1.3	1.3
63.5°	1.3	1.3	1.3	1.3	1.0	1.0
64°	1.3	1.3	1.3	1.0	1.0	1.0
64.5°	1.3	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	0.8	0.8
65.5°	1.0	1.0	1.0	0.8	0.8	0.8
66°	1.0	1.0	0.8	0.8	0.8	0.8



TEST NUMBER: P775953

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.8	0.8	0.8	0.5	0.5
68°	0.8	0.8	0.8	0.5	0.5	0.5
68.5°	0.8	0.8	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	0.3
71°	0.5	0.5	0.5	0.5	0.3	0.3
71.5°	0.5	0.5	0.5	0.3	0.3	0.3
72°	0.5	0.5	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.0
76.5°	0.3	0.3	0.3	0.3	0.0	0.0
77°	0.3	0.3	0.3	0.3	0.0	0.0
77.5°	0.3	0.3	0.3	0.0	0.0	0.0
78°	0.3	0.3	0.0	0.0	0.0	0.0
78.5°	0.3	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: P775953  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-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°	2308.6	2316.7	2317.5	2318.7	2276.2	2220.5	2182.9	2145.7	2123.9	2082.4	2119.5
22°	2267.9	2276.0	2278.5	2284.9	2242.4	2183.1	2139.6	2098.7	2079.1	2040.7	2077.0



44°	376.5	385.2	379.1	380.6	383.7	367.6	337.9	324.9	336.8	343.2	332.0
44.5°	350.8	357.2	352.9	354.1	358.2	345.7	318.8	306.8	316.0	322.1	311.9



66.5°	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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°	2106.8	2139.6	2170.2	2250.6	2308.8	2308.6
22°	2061.5	2096.9	2130.5	2213.4	2270.7	2267.9



44°	321.1	325.4	346.3	358.5	372.5	376.5
44.5°	303.0	306.6	324.1	334.6	346.0	350.8

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66.5°	0.8	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	0.8	0.8	0.8	0.8

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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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Scaled Data Report



(END OF REPORT)