

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: P775979

Luminaire Tested: HCDJBL51525CSD-HCD4TRC-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775979
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-HCD4TRC-2500lm-5000K
Description: 4 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

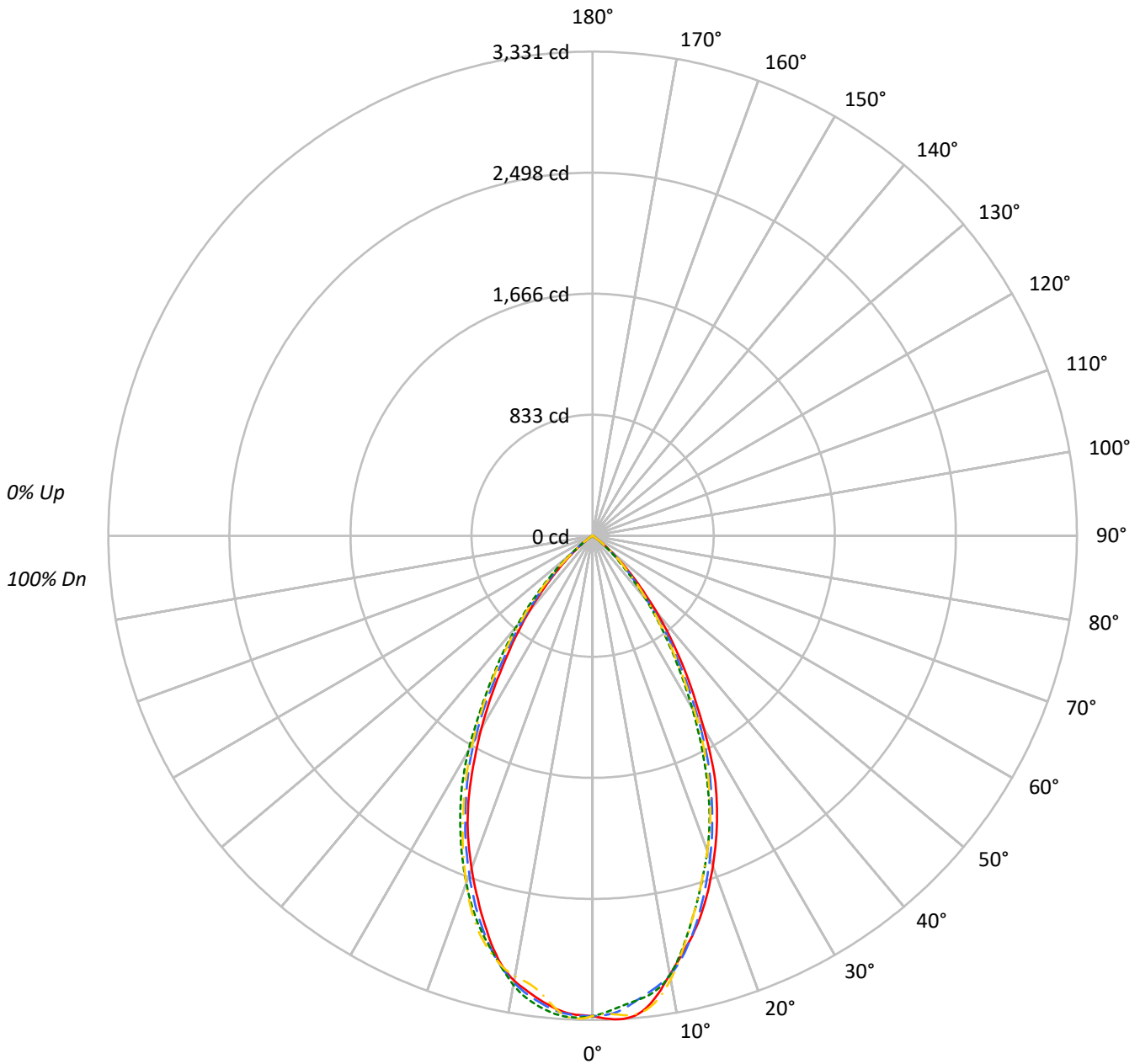
Lumens per Lamp: N/A
Luminaire Lumens: 3006.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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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								
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86								
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80								
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74								
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69								
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64								
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60								
8	78	68	62	58	77	68	62	58	67	61	57	66	61	57	65	60	57	56								
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	53	52								
10	71	61	55	51	70	60	54	51	59	54	50	59	54	50	58	53	50	49								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	415959	415959	415959	415959
5°	418786	406494	410701	415817
10°	391642	391833	397150	401034
15°	361553	350426	366504	373227
20°	323808	308915	326084	340267
25°	280539	258960	280789	299146
30°	222062	198840	222018	248423
35°	163943	142004	161961	187418
40°	111944	93626	110975	133794
45°	65834	51133	64820	83650
50°	27998	22751	30171	40587
55°	5661	5551	9566	11958
60°	906	1107	1032	1435
65°	536	625	536	834
70°	294	368	368	478
75°	146	243	243	389
80°	0	217	217	217
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 45°

Luminance: 83650 cd/sqm



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 CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.0	10.2
10°-20°	777.9	25.9
20°-30°	912.5	30.3
30°-40°	668.0	22.2
40°-50°	294.7	9.8
50°-60°	45.0	1.5
60°-70°	2.2	0.1
70°-80°	0.6	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°	1996.3	66.4
0°-40°	2664.3	88.6
0°-60°	3004.0	99.9
0°-90°	3006.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3006.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3305	3305	3305	3305	3305	
5°	3315	3218	3251	3292	3315	308
15°	2775	2690	2813	2865	2775	773
25°	2020	1865	2022	2154	2020	915
35°	1067	924	1054	1220	1067	667
45°	370	287	364	470	370	291
55°	26	25	44	54	26	37
65°	2	2	2	3	2	2
75°	0	0	0	1	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P775979

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3305.2	3305.2	3305.2	3305.2	3305.2	3305.2	3305.2	3305.2	3305.2	3305.2	3305.2
0.5°	3311.4	3307.0	3302.6	3301.9	3297.0	3297.0	3299.5	3301.3	3303.2	3303.9	3304.4
1°	3316.8	3308.6	3300.6	3296.4	3290.0	3290.5	3294.9	3298.0	3300.6	3302.4	3304.2
1.5°	3321.7	3310.4	3297.7	3289.5	3281.2	3285.3	3291.8	3296.4	3298.8	3300.3	3303.2
2°	3326.1	3311.4	3293.6	3280.7	3271.4	3280.2	3291.8	3297.5	3297.0	3297.7	3301.1
2.5°	3329.5	3310.9	3287.2	3268.8	3261.3	3275.8	3294.1	3299.8	3293.6	3293.1	3298.5
3°	3331.3	3308.1	3278.9	3255.9	3251.0	3273.2	3298.0	3302.1	3289.0	3286.1	3294.6
3.5°	3331.0	3302.9	3267.8	3242.0	3241.7	3271.4	3302.9	3304.2	3281.5	3276.8	3290.2
4°	3328.5	3294.9	3254.6	3227.0	3232.9	3270.1	3306.5	3304.4	3272.7	3265.5	3284.1
4.5°	3323.3	3283.8	3239.4	3213.1	3225.2	3268.6	3308.1	3302.9	3262.6	3251.8	3275.8
5°	3315.0	3270.4	3223.9	3199.9	3217.7	3265.7	3306.5	3298.0	3251.0	3236.6	3266.0
5.5°	3302.9	3254.9	3208.7	3187.5	3210.2	3260.8	3301.6	3291.0	3238.4	3219.8	3254.6
6°	3287.7	3237.1	3193.7	3176.9	3202.5	3253.1	3292.8	3280.7	3225.5	3203.8	3242.5
6.5°	3268.1	3218.2	3179.3	3166.9	3193.7	3243.5	3280.7	3268.3	3211.8	3187.5	3229.8
7°	3244.8	3197.6	3165.8	3157.1	3183.1	3230.1	3265.0	3252.6	3198.4	3173.6	3216.7
7.5°	3219.0	3175.4	3151.1	3147.3	3171.0	3212.6	3246.1	3235.0	3184.2	3159.4	3203.0
8°	3190.9	3151.9	3136.7	3136.7	3156.5	3191.9	3221.8	3214.4	3169.4	3146.7	3188.6
8.5°	3161.2	3125.6	3121.4	3124.5	3139.2	3168.4	3195.0	3191.9	3155.0	3135.9	3173.8
9°	3128.7	3099.5	3105.2	3110.3	3118.1	3140.0	3165.1	3167.1	3139.8	3126.1	3157.1
9.5°	3096.1	3072.9	3087.4	3093.8	3094.1	3109.0	3133.3	3139.5	3124.8	3116.0	3139.5
10°	3064.7	3046.1	3067.8	3074.7	3066.2	3075.5	3097.4	3110.1	3107.8	3105.2	3119.9
10.5°	3034.2	3018.7	3045.8	3051.7	3035.7	3038.3	3060.8	3078.1	3088.9	3093.6	3100.0
11°	3004.8	2991.3	3021.5	3023.4	3003.2	2999.6	3021.0	3044.5	3067.2	3080.7	3077.8
11.5°	2976.1	2962.7	2993.7	2995.2	2965.5	2961.1	2981.0	3008.4	3043.7	3064.4	3054.6
12°	2947.5	2933.5	2963.5	2961.9	2927.1	2915.7	2936.9	2970.4	3017.4	3045.8	3029.8
12.5°	2919.3	2903.6	2932.5	2924.8	2888.1	2873.9	2896.1	2931.2	2988.5	3023.1	3002.4
13°	2892.0	2873.9	2898.9	2887.1	2848.9	2836.2	2853.8	2892.0	2955.2	2996.8	2974.3
13.5°	2864.6	2841.6	2865.4	2851.4	2808.9	2791.3	2812.2	2852.2	2921.7	2968.9	2945.1
14°	2835.7	2808.6	2830.5	2811.7	2768.3	2751.8	2770.7	2812.0	2887.3	2936.9	2914.9
14.5°	2805.5	2774.8	2795.2	2772.5	2728.3	2713.4	2731.4	2773.2	2850.9	2903.6	2883.5
15°	2775.0	2740.5	2758.0	2733.0	2689.6	2672.8	2689.6	2734.5	2813.0	2869.3	2850.2
15.5°	2743.0	2704.3	2720.6	2693.0	2650.6	2633.1	2651.1	2695.8	2776.1	2834.4	2816.6
16°	2710.3	2668.7	2681.9	2653.0	2611.9	2595.1	2610.4	2658.1	2738.1	2797.2	2782.5
16.5°	2674.6	2631.0	2643.1	2613.7	2572.7	2557.4	2571.6	2622.0	2701.2	2760.1	2747.7
17°	2640.6	2593.8	2603.1	2573.7	2535.5	2518.7	2532.9	2583.3	2664.1	2722.6	2711.8
17.5°	2604.2	2555.1	2563.6	2534.0	2497.0	2481.6	2496.0	2546.3	2624.6	2684.2	2674.4
18°	2567.8	2516.9	2523.1	2494.5	2458.3	2443.1	2455.5	2510.0	2587.1	2645.5	2636.9
18.5°	2530.6	2477.4	2482.9	2454.7	2419.9	2405.7	2417.3	2473.0	2550.5	2604.9	2598.2
19°	2493.7	2439.0	2441.0	2414.2	2382.4	2368.2	2379.6	2435.1	2512.0	2566.2	2559.5
19.5°	2455.7	2399.5	2401.8	2374.4	2344.5	2332.4	2343.7	2399.2	2473.8	2525.4	2520.0
20°	2417.8	2361.5	2360.5	2335.2	2306.6	2295.2	2305.3	2362.6	2434.8	2485.2	2480.5
20.5°	2379.3	2322.3	2320.2	2295.5	2268.9	2258.5	2267.8	2324.9	2396.4	2444.4	2440.5
21°	2340.9	2282.0	2279.5	2255.2	2228.6	2220.3	2230.7	2288.2	2357.1	2404.4	2400.0



TEST NUMBER: P775979

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2223.7	2159.4	2150.4	2125.9	2101.9	2099.8	2114.3	2174.4	2239.4	2283.3	2279.7
23°	2184.2	2116.6	2106.3	2081.2	2056.4	2055.7	2071.2	2133.4	2200.2	2243.3	2240.2
23.5°	2143.7	2074.5	2061.9	2035.0	2008.7	2013.6	2028.6	2091.8	2157.1	2201.0	2198.1
24°	2102.6	2031.4	2018.0	1988.0	1960.7	1968.2	1983.6	2046.9	2113.0	2158.4	2154.5
24.5°	2062.4	1988.8	1973.3	1939.3	1912.7	1922.7	1938.5	2001.2	2066.8	2114.5	2111.9
25°	2020.3	1944.4	1928.9	1891.5	1864.9	1877.3	1893.6	1955.5	2022.1	2070.1	2071.2
25.5°	1978.7	1901.3	1884.5	1842.5	1816.9	1831.6	1848.4	1910.1	1973.6	2025.2	2026.2
26°	1935.9	1857.7	1839.9	1792.9	1766.6	1781.3	1803.2	1864.4	1924.8	1980.0	1983.9
26.5°	1890.7	1812.5	1794.4	1743.3	1715.7	1734.0	1757.5	1818.7	1876.3	1935.1	1941.6
27°	1841.7	1765.3	1748.5	1694.3	1665.6	1682.7	1709.3	1769.4	1827.5	1890.0	1899.2
27.5°	1791.9	1718.8	1699.2	1646.0	1615.6	1632.3	1664.1	1718.3	1775.9	1845.0	1856.9
28°	1740.8	1669.5	1649.6	1597.8	1564.7	1582.3	1613.5	1666.2	1724.2	1800.1	1814.3
28.5°	1687.8	1618.7	1600.6	1549.0	1514.9	1531.7	1563.9	1615.1	1674.9	1751.3	1768.1
29°	1633.9	1568.1	1550.5	1501.5	1465.6	1481.1	1514.1	1563.2	1625.9	1702.6	1720.6
29.5°	1579.7	1515.9	1499.9	1454.0	1416.8	1430.5	1462.8	1514.4	1577.1	1653.3	1671.6
30°	1528.1	1464.1	1450.9	1406.8	1368.3	1379.6	1410.4	1462.8	1527.8	1603.2	1621.8
30.5°	1477.5	1411.7	1402.1	1359.8	1319.5	1330.3	1360.8	1412.2	1478.8	1552.8	1571.4
31°	1427.9	1358.0	1353.3	1311.0	1272.5	1280.5	1310.2	1364.2	1429.2	1504.3	1520.6
31.5°	1379.9	1307.4	1306.1	1264.0	1225.6	1232.5	1260.9	1316.9	1379.9	1456.3	1470.8
32°	1331.9	1258.8	1259.4	1217.3	1179.3	1188.4	1212.1	1268.9	1332.4	1408.3	1420.7
32.5°	1287.2	1210.8	1213.4	1169.8	1134.4	1142.4	1166.7	1223.5	1283.6	1361.3	1370.9
33°	1243.9	1164.1	1168.5	1122.8	1089.8	1098.3	1120.0	1177.8	1235.6	1314.1	1322.1
33.5°	1199.7	1117.9	1124.1	1079.7	1046.2	1057.3	1075.6	1133.1	1188.4	1268.9	1271.2
34°	1155.1	1073.8	1080.0	1036.6	1004.6	1012.1	1032.0	1089.8	1142.4	1224.0	1222.5
34.5°	1110.2	1031.2	1037.4	993.8	963.8	971.0	988.9	1046.7	1097.3	1179.3	1175.5
35°	1067.1	989.1	994.0	953.2	924.3	933.9	947.3	1004.6	1054.2	1135.2	1130.0
35.5°	1025.0	948.6	950.9	920.7	885.4	893.1	907.0	964.3	1012.6	1090.6	1083.8
36°	981.9	924.8	922.5	881.2	848.2	851.3	868.3	923.3	973.6	1046.7	1039.7
36.5°	941.6	882.8	879.4	842.0	811.5	815.4	830.6	885.1	934.4	1003.1	996.6
37°	903.7	840.4	836.0	802.5	775.1	777.5	793.2	845.9	895.9	960.2	956.1
37.5°	866.0	798.1	792.4	763.3	739.8	740.5	758.1	806.9	859.3	918.9	914.8
38°	828.3	756.0	749.1	726.9	704.4	705.4	723.5	771.8	821.1	877.3	875.8
38.5°	790.4	720.2	709.6	691.0	669.3	670.9	689.4	736.7	785.2	838.6	837.1
39°	752.7	685.8	674.7	654.6	635.5	638.6	656.4	699.0	748.0	799.7	799.1
39.5°	716.5	651.8	639.4	619.5	601.9	606.3	623.1	665.2	711.9	762.0	760.9
40°	681.4	617.4	605.5	584.9	569.9	574.8	591.4	632.1	675.5	724.0	724.8
40.5°	646.6	584.6	570.4	550.3	536.6	544.6	560.9	598.6	642.2	687.9	689.2
41°	611.7	553.4	539.5	517.5	506.4	514.7	531.2	566.6	607.1	652.0	654.3
41.5°	578.7	522.2	508.2	486.0	475.5	486.0	502.8	535.3	573.5	617.2	619.5
42°	545.7	492.0	478.0	455.3	446.0	458.4	474.9	505.4	541.5	582.6	586.7
42.5°	514.2	462.6	447.6	425.6	417.1	431.3	448.4	476.2	510.6	549.8	553.9
43°	483.5	432.9	420.5	397.8	389.2	405.2	423.3	447.3	480.6	517.0	522.4
43.5°	454.0	404.7	393.4	370.4	362.7	379.7	398.0	420.2	450.4	485.5	491.7



TEST NUMBER: P775979

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	369.9	326.3	317.7	294.3	287.3	309.7	327.8	344.1	364.2	398.3	407.1
45.5°	343.6	301.5	294.5	271.5	265.1	288.6	305.9	320.1	337.4	371.7	380.5
46°	317.7	278.5	272.6	249.6	246.2	267.7	284.7	297.4	311.8	345.9	354.1
46.5°	292.2	256.3	251.7	229.2	227.4	249.1	264.3	275.9	286.3	321.4	329.4
47°	267.4	234.9	231.5	210.1	208.3	230.5	246.2	255.0	263.0	297.4	306.4
47.5°	243.7	214.5	212.2	192.0	189.5	211.9	228.4	236.4	244.2	274.6	283.4
48°	222.0	194.9	193.8	175.5	170.9	193.3	210.4	217.9	225.3	255.3	261.0
48.5°	200.3	176.3	176.6	160.0	155.9	175.0	192.3	199.3	206.5	235.9	241.1
49°	179.9	159.0	160.0	145.1	142.0	159.3	174.2	180.7	187.4	216.3	221.2
49.5°	161.1	142.5	144.5	131.6	128.8	144.0	157.7	164.4	168.8	196.9	201.3
50°	143.0	126.7	129.3	119.0	116.2	129.6	142.7	148.7	154.1	177.6	181.7
50.5°	126.7	111.8	115.4	106.9	104.3	115.9	128.0	134.5	140.4	161.1	164.7
51°	111.2	97.8	102.2	95.0	93.2	102.7	114.3	121.3	127.3	145.6	148.7
51.5°	96.5	86.7	89.3	85.2	82.6	90.6	100.9	108.4	114.9	131.4	132.7
52°	85.2	75.6	78.7	75.4	72.3	79.2	89.1	96.3	103.2	118.0	118.0
52.5°	74.1	64.5	68.4	65.6	62.2	68.4	76.9	84.7	92.1	105.1	103.8
53°	63.0	53.4	58.1	55.5	52.9	58.1	66.1	73.8	81.8	92.9	90.9
53.5°	51.9	42.3	47.8	45.9	44.1	48.8	56.0	63.2	71.0	81.6	78.5
54°	40.8	34.3	39.2	37.7	36.7	40.3	46.5	53.7	60.9	70.7	67.1
54.5°	32.8	27.4	31.7	30.5	31.0	34.1	38.2	44.7	51.6	60.1	56.8
55°	25.8	20.4	24.8	23.5	25.3	27.9	32.0	36.9	43.6	50.8	47.0
55.5°	18.8	14.2	18.1	17.0	19.6	21.7	26.1	31.0	37.4	42.3	38.5
56°	12.9	9.6	12.4	11.9	13.9	15.5	20.1	25.0	31.5	35.6	32.5
56.5°	8.5	8.3	8.5	8.5	8.5	9.6	14.2	19.1	25.3	29.2	26.3
57°	7.5	7.2	7.7	7.7	7.2	7.2	8.3	13.4	19.1	22.7	20.4
57.5°	6.5	5.9	6.7	7.0	6.5	6.5	6.5	7.5	13.2	16.3	14.5
58°	5.4	4.9	5.9	6.2	5.9	5.7	5.7	5.9	7.0	9.8	8.5
58.5°	4.6	4.4	5.2	5.4	5.4	5.4	5.2	5.2	5.7	7.0	6.5
59°	4.1	4.1	4.6	4.9	4.9	4.9	4.6	4.6	4.9	5.7	5.7
59.5°	3.9	3.9	4.4	4.6	4.6	4.6	4.4	4.4	4.4	4.9	5.2
60°	3.6	3.4	3.9	4.1	4.4	4.1	4.1	3.9	4.1	4.4	4.6
60.5°	3.4	3.1	3.6	3.9	4.1	3.9	3.6	3.6	3.9	4.1	4.4
61°	3.1	3.1	3.4	3.6	3.6	3.6	3.4	3.4	3.4	3.9	3.9
61.5°	2.8	2.8	3.1	3.4	3.6	3.4	3.1	3.1	3.1	3.4	3.6
62°	2.6	2.6	2.8	3.1	3.4	3.1	3.1	2.8	2.8	3.1	3.4
62.5°	2.3	2.3	2.8	3.1	3.1	2.8	2.8	2.8	2.8	3.1	3.1
63°	2.3	2.3	2.6	2.8	2.8	2.8	2.6	2.6	2.6	2.8	2.8
63.5°	2.1	2.1	2.3	2.6	2.6	2.6	2.3	2.3	2.3	2.6	2.8
64°	2.1	2.1	2.3	2.3	2.6	2.3	2.3	2.3	2.3	2.3	2.6
64.5°	1.8	1.8	2.1	2.3	2.3	2.3	2.1	2.1	2.1	2.3	2.3
65°	1.8	1.8	2.1	2.1	2.1	2.1	2.1	1.8	1.8	2.1	2.3
65.5°	1.5	1.5	1.8	2.1	2.1	2.1	1.8	1.8	1.8	2.1	2.1
66°	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.5	1.5	1.8	1.8



TEST NUMBER: P775979

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.3	1.3	1.5	1.5
68°	1.0	1.0	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.5
68.5°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
69°	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.3	1.3
69.5°	0.8	0.8	1.0	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.3
70°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.0
71°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	1.0	1.0
71.5°	0.5	0.5	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	1.0
72°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
73°	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.8	0.8
73.5°	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.8
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.5	0.5
76.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.5
77°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3	0.3
81°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3
81.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3
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: P775979
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-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: P775979

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3305.2	3305.2	3305.2	3305.2	3305.2	3305.2
0.5°	3308.3	3308.1	3310.4	3313.0	3313.2	3311.4
1°	3310.1	3311.9	3315.8	3319.4	3319.9	3316.8
1.5°	3311.2	3314.8	3319.2	3323.3	3325.4	3321.7
2°	3311.9	3316.3	3319.4	3324.6	3329.2	3326.1
2.5°	3312.4	3316.1	3316.6	3322.0	3330.5	3329.5
3°	3312.2	3314.3	3309.1	3314.0	3329.0	3331.3
3.5°	3311.9	3311.2	3297.5	3301.9	3323.8	3331.0
4°	3311.7	3306.3	3282.5	3283.5	3315.3	3328.5
4.5°	3310.4	3299.8	3263.7	3261.9	3303.2	3323.3
5°	3308.3	3291.5	3241.2	3237.6	3287.2	3315.0
5.5°	3306.0	3281.7	3218.5	3211.5	3268.6	3302.9
6°	3302.4	3270.6	3195.5	3187.0	3250.5	3287.7
6.5°	3296.2	3259.0	3173.3	3164.3	3231.7	3268.1
7°	3287.2	3246.4	3154.2	3144.7	3209.2	3244.8
7.5°	3275.3	3232.9	3138.7	3128.2	3188.3	3219.0
8°	3258.5	3217.7	3125.6	3114.5	3166.1	3190.9
8.5°	3238.4	3201.5	3114.5	3104.1	3143.1	3161.2
9°	3215.7	3182.6	3104.4	3094.1	3119.4	3128.7
9.5°	3189.3	3161.4	3096.7	3084.8	3096.4	3096.1
10°	3159.1	3138.2	3086.6	3075.2	3072.4	3064.7
10.5°	3129.7	3112.4	3075.8	3065.2	3048.6	3034.2
11°	3098.2	3085.6	3063.6	3053.3	3024.1	3004.8
11.5°	3065.4	3057.4	3049.4	3039.6	3000.4	2976.1
12°	3034.7	3029.5	3031.9	3023.1	2976.4	2947.5
12.5°	3005.0	3001.4	3013.3	3004.0	2952.4	2919.3
13°	2974.6	2973.3	2993.4	2984.6	2929.4	2892.0
13.5°	2944.4	2946.2	2971.5	2963.0	2904.4	2864.6
14°	2915.2	2918.8	2948.5	2940.2	2878.5	2835.7
14.5°	2885.8	2892.5	2925.0	2916.8	2851.7	2805.5
15°	2855.8	2864.6	2898.7	2891.5	2823.8	2775.0
15.5°	2826.2	2837.5	2871.6	2865.6	2793.6	2743.0
16°	2794.1	2808.6	2842.9	2837.0	2762.9	2710.3
16.5°	2762.7	2779.2	2813.8	2806.0	2731.4	2674.6
17°	2727.8	2747.9	2782.8	2774.0	2698.1	2640.6
17.5°	2694.0	2716.5	2749.2	2739.4	2663.8	2604.2
18°	2657.9	2683.2	2713.4	2703.0	2628.4	2567.8
18.5°	2622.0	2648.8	2677.5	2664.6	2590.5	2530.6
19°	2584.0	2612.7	2639.3	2624.3	2553.8	2493.7
19.5°	2546.6	2578.1	2600.8	2583.3	2516.1	2455.7
20°	2507.6	2540.7	2562.4	2543.0	2477.7	2417.8
20.5°	2469.9	2504.8	2520.5	2501.2	2438.7	2379.3
21°	2431.0	2466.3	2481.0	2458.8	2399.7	2340.9

TEST NUMBER: P775979

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2316.1	2353.3	2359.2	2329.3	2279.2	2223.7
23°	2276.1	2314.8	2316.6	2285.9	2238.4	2184.2
23.5°	2236.1	2274.8	2273.3	2241.3	2195.0	2143.7
24°	2197.4	2235.3	2230.7	2194.8	2153.2	2102.6
24.5°	2157.9	2195.0	2186.5	2149.4	2109.4	2062.4
25°	2116.8	2154.3	2140.8	2104.4	2067.8	2020.3
25.5°	2077.1	2113.5	2097.5	2060.1	2022.4	1978.7
26°	2037.3	2072.2	2054.6	2016.9	1980.3	1935.9
26.5°	1995.3	2031.1	2011.0	1972.8	1936.4	1890.7
27°	1952.9	1989.3	1968.2	1930.0	1892.0	1841.7
27.5°	1910.9	1946.5	1924.0	1886.3	1843.7	1791.9
28°	1868.5	1901.6	1879.4	1841.9	1800.1	1740.8
28.5°	1826.5	1854.8	1835.0	1796.5	1752.4	1687.8
29°	1779.2	1808.1	1789.8	1751.9	1703.1	1633.9
29.5°	1730.4	1759.6	1745.1	1705.1	1654.3	1579.7
30°	1679.1	1709.5	1698.2	1657.6	1604.0	1528.1
30.5°	1626.7	1658.4	1649.1	1608.9	1551.3	1477.5
31°	1578.1	1605.8	1600.9	1560.1	1500.7	1427.9
31.5°	1524.2	1552.6	1551.6	1511.5	1448.6	1379.9
32°	1468.2	1501.5	1503.0	1464.6	1399.0	1331.9
32.5°	1419.1	1451.1	1453.2	1417.1	1350.0	1287.2
33°	1368.3	1402.6	1406.5	1371.6	1301.4	1243.9
33.5°	1317.4	1353.1	1355.9	1326.0	1255.8	1199.7
34°	1269.4	1308.7	1309.4	1279.8	1211.6	1155.1
34.5°	1223.7	1264.0	1264.8	1234.6	1168.5	1110.2
35°	1179.6	1219.9	1218.3	1190.4	1125.7	1067.1
35.5°	1136.2	1176.5	1173.7	1145.8	1084.6	1025.0
36°	1093.4	1133.9	1130.8	1102.2	1043.3	981.9
36.5°	1050.5	1092.1	1087.7	1057.5	1003.6	941.6
37°	1008.5	1050.0	1044.1	1013.6	963.8	903.7
37.5°	966.9	1008.5	1004.1	972.3	921.5	866.0
38°	925.9	966.4	961.8	932.1	883.3	828.3
38.5°	885.4	926.1	917.4	892.8	845.6	790.4
39°	845.3	889.0	880.2	853.3	807.7	752.7
39.5°	807.1	851.5	843.0	814.1	769.7	716.5
40°	770.0	814.4	806.1	774.6	732.0	681.4
40.5°	733.6	777.2	768.9	735.4	696.4	646.6
41°	700.5	740.0	731.8	698.5	661.3	611.7
41.5°	664.9	704.7	694.9	662.3	627.0	578.7
42°	631.6	670.1	658.5	627.2	593.2	545.7
42.5°	598.8	635.0	623.4	593.7	560.4	514.2
43°	568.6	600.6	588.3	560.4	527.6	483.5
43.5°	536.1	566.8	554.2	526.8	495.1	454.0



TEST NUMBER: P775979

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	448.1	470.0	458.4	434.2	402.2	369.9
45.5°	418.4	439.6	427.7	405.0	373.2	343.6
46°	391.3	410.2	398.3	376.3	345.6	317.7
46.5°	363.9	381.5	370.4	349.0	318.5	292.2
47°	338.1	353.6	342.5	322.4	292.7	267.4
47.5°	312.1	326.5	315.9	296.6	267.4	243.7
48°	287.8	300.7	289.6	271.5	244.2	222.0
48.5°	264.1	275.7	265.3	248.6	222.2	200.3
49°	242.6	252.2	242.1	225.3	200.8	179.9
49.5°	221.5	229.5	219.9	203.7	180.7	161.1
50°	200.0	207.3	197.2	182.5	162.4	143.0
50.5°	178.9	186.6	177.6	162.9	144.0	126.7
51°	160.6	167.3	158.5	144.8	127.3	111.2
51.5°	143.3	148.9	141.2	127.5	112.0	96.5
52°	126.5	131.9	123.9	111.0	97.1	85.2
52.5°	111.2	116.2	108.7	96.5	85.7	74.1
53°	97.3	100.9	94.0	85.2	74.1	63.0
53.5°	83.9	87.8	82.9	73.6	62.7	51.9
54°	71.2	76.7	71.8	62.2	51.1	40.8
54.5°	60.4	65.6	60.7	50.8	39.8	32.8
55°	50.1	54.5	49.6	39.5	32.3	25.8
55.5°	40.8	43.1	38.5	31.7	25.0	18.8
56°	34.6	35.1	31.0	25.0	18.3	12.9
56.5°	28.4	28.1	24.5	18.1	12.1	8.5
57°	22.2	21.2	17.6	12.4	8.3	7.5
57.5°	16.0	15.2	12.1	8.5	7.5	6.5
58°	9.8	10.6	8.8	7.5	6.5	5.4
58.5°	7.5	9.3	8.0	6.7	5.4	4.6
59°	6.5	8.3	7.0	5.7	4.6	4.1
59.5°	5.9	7.0	6.2	4.9	4.1	3.9
60°	5.4	5.7	5.2	4.4	3.9	3.6
60.5°	4.9	5.2	4.9	4.1	3.6	3.4
61°	4.6	4.9	4.4	3.9	3.4	3.1
61.5°	4.1	4.4	4.1	3.6	3.1	2.8
62°	3.9	4.1	3.9	3.4	2.8	2.6
62.5°	3.6	3.9	3.6	3.1	2.6	2.3
63°	3.4	3.6	3.4	2.8	2.6	2.3
63.5°	3.1	3.4	3.1	2.6	2.3	2.1
64°	2.8	3.1	2.8	2.3	2.1	2.1
64.5°	2.8	2.8	2.6	2.3	2.1	1.8
65°	2.6	2.8	2.6	2.1	1.8	1.8
65.5°	2.3	2.6	2.3	2.1	1.8	1.5
66°	2.3	2.3	2.1	1.8	1.5	1.5



TEST NUMBER: P775979

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.8	2.1	1.8	1.5	1.3	1.3
68°	1.8	1.8	1.5	1.3	1.3	1.0
68.5°	1.5	1.8	1.5	1.3	1.0	1.0
69°	1.5	1.5	1.5	1.3	1.0	1.0
69.5°	1.3	1.5	1.3	1.0	1.0	0.8
70°	1.3	1.3	1.3	1.0	0.8	0.8
70.5°	1.3	1.3	1.3	1.0	0.8	0.8
71°	1.0	1.3	1.0	1.0	0.8	0.8
71.5°	1.0	1.0	1.0	0.8	0.8	0.5
72°	1.0	1.0	1.0	0.8	0.8	0.5
72.5°	1.0	1.0	0.8	0.8	0.5	0.5
73°	0.8	0.8	0.8	0.8	0.5	0.5
73.5°	0.8	0.8	0.8	0.5	0.5	0.5
74°	0.8	0.8	0.8	0.5	0.5	0.5
74.5°	0.8	0.8	0.8	0.5	0.5	0.3
75°	0.5	0.8	0.5	0.5	0.5	0.3
75.5°	0.5	0.5	0.5	0.5	0.3	0.3
76°	0.5	0.5	0.5	0.5	0.3	0.3
76.5°	0.5	0.5	0.5	0.3	0.3	0.3
77°	0.5	0.5	0.5	0.3	0.3	0.3
77.5°	0.5	0.5	0.5	0.3	0.3	0.3
78°	0.5	0.5	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.0
80°	0.3	0.3	0.3	0.3	0.0	0.0
80.5°	0.3	0.3	0.3	0.3	0.0	0.0
81°	0.3	0.3	0.3	0.3	0.0	0.0
81.5°	0.3	0.3	0.3	0.0	0.0	0.0
82°	0.3	0.3	0.3	0.0	0.0	0.0
82.5°	0.3	0.3	0.3	0.0	0.0	0.0
83°	0.3	0.3	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: P775979
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRC-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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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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Scaled Data Report





21.5°	2302.4	2242.0	2237.4	2212.6	2187.8	2182.1	2195.0	2251.3	2317.7	2363.1	2360.2
22°	2263.7	2200.7	2195.0	2169.2	2145.5	2141.6	2155.6	2213.9	2278.7	2323.6	2320.0



44°	425.1	377.6	367.0	343.6	337.1	355.7	373.8	393.9	420.5	455.3	462.8
44.5°	396.7	351.6	342.0	318.3	311.6	332.2	350.3	368.3	392.1	426.4	434.2



66.5°	1.3	1.3	1.5	1.8	1.8	1.8	1.5	1.5	1.5	1.8	1.8
67°	1.3	1.3	1.5	1.5	1.8	1.5	1.5	1.5	1.5	1.5	1.8



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°	2392.5	2429.2	2440.8	2416.3	2360.0	2302.4
22°	2353.5	2390.7	2399.5	2373.7	2320.8	2263.7



44°	505.9	534.0	521.1	495.1	462.8	425.1
44.5°	476.2	501.8	489.9	464.4	432.9	396.7

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66.5°	2.1	2.3	2.1	1.8	1.5	1.3
67°	2.1	2.1	1.8	1.5	1.3	1.3

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Peachtree City, GA 30269

Scaled Data Report



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)