

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: P775950

Luminaire Tested: HCDJBS1525CSD-HCD42TRC-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775950
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-2700K
Description: 4 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

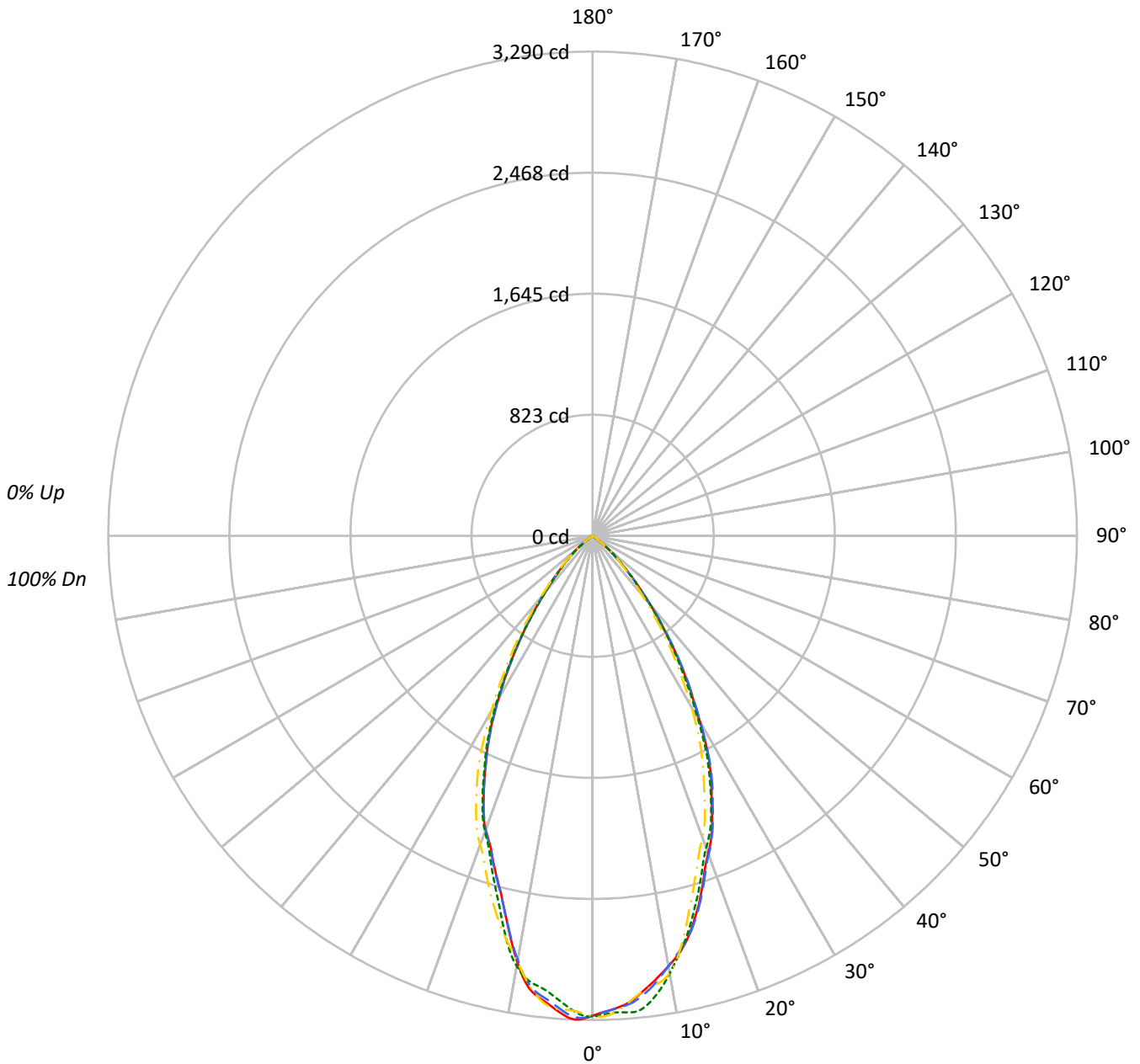
Lumens per Lamp: N/A
Luminaire Lumens: 2684.6 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.81 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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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	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°	410572	410572	410572	410572
5°	399684	410486	405496	395819
10°	379399	385751	376051	379681
15°	350152	345319	320603	328055
20°	307281	302058	284634	286482
25°	265458	263181	239006	241505
30°	212122	207443	186066	188813
35°	154679	150285	131065	131956
40°	98867	98029	84048	82175
45°	55209	56722	50243	48837
50°	25100	26803	24904	23964
55°	1492	1426	1163	1338
60°	428	554	478	478
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: 56722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	11.1
10°-20°	720.3	26.8
20°-30°	826.3	30.8
30°-40°	577.6	21.5
40°-50°	235.6	8.8
50°-60°	25.9	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°	1844.3	68.7
0°-40°	2421.8	90.2
0°-60°	2683.4	100.0
0°-90°	2684.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3262	3262	3262	3262	3262	
5°	3164	3249	3210	3133	3164	295
15°	2688	2650	2461	2518	2688	745
25°	1912	1895	1721	1739	1912	871
35°	1007	978	853	859	1007	625
45°	310	319	282	274	310	249
55°	7	6	5	6	7	25
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	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°	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4
0.5°	3252.0	3251.7	3251.7	3252.5	3263.9	3264.8	3267.7	3270.6	3271.9	3271.6	3268.5
1°	3243.3	3242.5	3243.7	3245.7	3258.0	3262.2	3268.9	3276.2	3281.1	3280.8	3274.8
1.5°	3234.8	3233.8	3236.0	3239.9	3252.7	3257.1	3266.0	3277.7	3287.6	3288.1	3277.7
2°	3226.8	3224.6	3228.7	3235.7	3247.4	3250.0	3258.5	3273.8	3290.0	3292.0	3275.2
2.5°	3219.0	3214.9	3221.4	3233.3	3244.0	3242.0	3246.9	3263.6	3285.4	3290.0	3267.0
3°	3211.0	3203.5	3214.9	3233.3	3242.8	3233.3	3232.6	3249.3	3275.5	3281.1	3253.7
3.5°	3202.3	3190.4	3207.9	3236.2	3243.7	3224.4	3215.9	3232.3	3261.4	3268.5	3237.7
4°	3192.4	3176.4	3200.4	3240.1	3246.9	3214.4	3197.2	3213.4	3245.2	3252.2	3220.7
4.5°	3179.5	3158.9	3191.1	3244.5	3249.3	3202.8	3177.6	3194.1	3227.7	3235.3	3203.0
5°	3163.8	3140.0	3180.2	3246.2	3249.3	3188.2	3157.9	3174.9	3209.8	3218.5	3185.8
5.5°	3145.3	3120.1	3165.7	3242.8	3243.7	3171.3	3138.8	3157.7	3193.3	3201.3	3169.8
6°	3126.0	3100.3	3148.7	3233.3	3231.6	3151.4	3121.6	3142.4	3178.1	3184.4	3155.3
6.5°	3105.8	3082.6	3130.6	3216.8	3214.9	3133.0	3107.0	3129.8	3163.0	3167.6	3141.0
7°	3087.2	3067.8	3111.7	3194.1	3194.1	3115.0	3096.1	3118.9	3146.3	3149.2	3125.5
7.5°	3068.0	3054.7	3091.5	3165.5	3169.6	3097.8	3087.7	3109.0	3127.6	3126.2	3106.6
8°	3049.6	3043.1	3069.7	3131.3	3143.9	3082.1	3079.7	3097.1	3103.7	3097.4	3082.3
8.5°	3029.0	3032.9	3045.2	3091.8	3115.8	3065.6	3071.2	3081.4	3071.7	3061.7	3051.3
9°	3008.9	3023.4	3019.8	3049.9	3086.2	3047.7	3057.8	3059.8	3033.9	3019.3	3015.4
9.5°	2988.3	3014.5	2994.4	3007.9	3052.8	3029.3	3039.9	3031.7	2989.0	2970.6	2972.3
10°	2968.9	3006.7	2968.9	2966.5	3018.6	3008.7	3017.1	2997.7	2942.7	2918.3	2927.7
10.5°	2948.5	2999.0	2944.4	2929.4	2983.7	2985.4	2987.8	2959.7	2894.0	2861.1	2881.7
11°	2928.7	2990.0	2921.2	2895.2	2949.0	2958.5	2953.6	2918.3	2843.6	2803.4	2834.9
11.5°	2906.6	2976.7	2897.9	2864.9	2916.1	2927.5	2912.9	2875.1	2791.3	2745.4	2785.7
12°	2883.1	2956.8	2874.9	2837.3	2881.7	2891.8	2869.8	2830.8	2740.1	2686.8	2735.8
12.5°	2856.2	2929.6	2850.6	2811.9	2846.5	2851.1	2821.5	2784.7	2688.3	2630.3	2684.9
13°	2828.1	2896.4	2826.2	2786.4	2811.4	2808.2	2772.8	2737.5	2636.9	2577.7	2637.6
13.5°	2795.6	2858.9	2797.8	2758.5	2773.3	2761.0	2722.2	2687.0	2587.9	2528.1	2589.4
14°	2761.9	2817.9	2767.3	2727.5	2732.6	2713.0	2672.3	2640.5	2541.6	2483.2	2544.0
14.5°	2725.6	2775.3	2733.6	2695.3	2691.6	2663.3	2622.8	2592.5	2498.5	2440.8	2502.4
15°	2687.5	2730.2	2697.9	2661.3	2650.4	2615.3	2576.5	2547.9	2460.7	2401.5	2464.8
15.5°	2650.0	2687.5	2660.6	2627.7	2609.2	2570.2	2531.9	2504.1	2422.6	2365.7	2428.0
16°	2610.9	2643.9	2622.3	2592.0	2568.5	2526.4	2487.8	2461.6	2386.0	2330.3	2391.6
16.5°	2570.7	2598.8	2582.8	2554.7	2527.8	2482.2	2443.0	2417.5	2347.7	2294.7	2353.6
17°	2528.1	2553.5	2541.6	2514.7	2485.4	2438.1	2400.8	2373.4	2310.2	2259.0	2316.2
17.5°	2485.9	2506.7	2499.7	2474.5	2442.3	2393.8	2358.4	2329.8	2271.9	2223.9	2278.2
18°	2442.3	2460.7	2456.1	2433.5	2400.8	2349.9	2317.0	2288.8	2235.8	2190.9	2242.8
18.5°	2399.8	2416.3	2412.9	2392.8	2358.9	2308.7	2277.5	2248.6	2203.8	2161.6	2209.3
19°	2360.3	2375.1	2372.5	2354.8	2320.8	2271.4	2242.6	2214.9	2175.9	2136.2	2181.7
19.5°	2325.7	2338.8	2336.3	2321.8	2285.5	2239.6	2212.0	2184.4	2150.7	2111.9	2153.4
20°	2294.4	2305.8	2304.4	2292.2	2255.4	2210.1	2183.2	2154.8	2125.3	2086.2	2125.3
20.5°	2266.3	2274.8	2274.8	2265.3	2227.3	2180.8	2152.9	2122.3	2095.9	2056.2	2093.0
21°	2234.3	2241.8	2241.8	2237.2	2198.9	2148.8	2117.3	2085.5	2062.0	2022.2	2057.1



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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°	2121.4	2129.1	2133.0	2140.5	2100.8	2040.4	1993.9	1951.0	1935.5	1902.0	1936.0
23°	2076.5	2087.2	2090.6	2101.7	2060.5	1999.5	1948.1	1903.0	1892.6	1862.8	1892.3
23.5°	2032.9	2046.2	2049.1	2062.5	2019.1	1960.0	1901.6	1858.9	1849.7	1823.3	1849.0
24°	1990.7	2005.5	2007.0	2020.6	1978.1	1921.4	1861.6	1814.8	1807.0	1784.0	1805.6
24.5°	1950.5	1967.5	1967.7	1977.2	1936.2	1880.7	1821.6	1770.7	1764.1	1744.5	1762.2
25°	1911.7	1929.9	1927.0	1931.1	1895.3	1841.4	1781.6	1726.6	1721.2	1705.0	1718.6
25.5°	1874.7	1893.3	1888.9	1886.8	1852.8	1802.4	1741.6	1685.4	1680.3	1666.5	1675.2
26°	1835.6	1856.5	1848.2	1839.5	1810.4	1763.2	1701.6	1645.6	1640.0	1625.3	1634.7
26.5°	1795.6	1817.7	1807.3	1793.2	1767.8	1723.9	1661.6	1604.9	1597.6	1582.8	1592.1
27°	1753.7	1776.0	1762.9	1744.0	1725.1	1678.6	1620.7	1564.7	1555.2	1539.2	1548.9
27.5°	1709.8	1732.9	1717.4	1697.5	1682.5	1633.7	1578.0	1522.7	1511.4	1494.4	1505.3
28°	1662.8	1687.5	1668.9	1648.8	1631.8	1587.0	1534.4	1477.2	1466.5	1448.6	1459.7
28.5°	1613.4	1640.8	1618.2	1602.2	1579.9	1539.2	1486.4	1431.1	1419.3	1400.1	1412.7
29°	1561.3	1594.7	1566.6	1554.0	1528.6	1492.0	1438.2	1384.6	1373.0	1352.1	1366.9
29.5°	1510.9	1546.0	1515.5	1507.2	1477.7	1443.0	1389.2	1336.1	1326.7	1304.1	1319.9
30°	1459.7	1496.8	1465.5	1460.2	1427.5	1394.1	1340.7	1288.6	1280.4	1258.6	1273.6
30.5°	1409.6	1447.6	1416.6	1413.4	1378.1	1345.6	1292.0	1243.3	1234.3	1211.1	1227.1
31°	1361.1	1397.4	1369.3	1365.2	1332.7	1299.8	1245.2	1199.7	1189.7	1165.7	1183.7
31.5°	1314.1	1349.0	1324.5	1318.4	1282.6	1253.0	1200.9	1156.3	1145.6	1121.6	1139.1
32°	1268.8	1300.7	1280.1	1271.4	1237.2	1207.0	1157.0	1114.9	1101.5	1081.7	1095.9
32.5°	1224.2	1252.5	1236.5	1225.4	1191.7	1159.2	1113.9	1072.4	1056.7	1039.2	1053.3
33°	1181.3	1205.7	1194.1	1180.3	1150.0	1114.4	1070.7	1031.5	1014.3	999.0	1010.6
33.5°	1137.9	1159.4	1149.8	1136.4	1103.7	1068.6	1029.1	991.3	971.4	958.8	969.4
34°	1094.5	1113.4	1105.9	1093.8	1060.1	1025.4	986.9	950.5	932.1	921.7	928.2
34.5°	1050.4	1066.6	1061.8	1052.1	1018.4	980.8	945.0	908.4	891.6	882.4	889.0
35°	1006.8	1020.8	1018.2	1009.7	978.2	938.4	901.8	867.9	853.1	844.9	850.2
35.5°	963.6	976.0	974.8	968.2	936.5	896.2	859.9	828.4	815.3	807.5	812.1
36°	920.7	932.1	931.1	926.3	896.0	857.0	818.0	789.6	779.2	772.2	774.1
36.5°	876.9	889.0	889.0	882.9	856.5	814.8	776.3	749.4	741.6	735.3	737.3
37°	836.4	849.0	848.5	842.7	819.2	775.3	735.6	710.4	705.3	701.9	700.9
37.5°	795.9	809.0	808.0	802.5	778.9	736.5	697.0	674.2	669.6	668.4	665.8
38°	755.4	768.8	767.8	762.0	741.6	700.4	659.5	638.1	636.0	636.0	631.1
38.5°	715.0	728.8	727.3	721.7	704.3	664.1	623.8	602.5	603.2	604.4	598.4
39°	674.5	688.8	686.8	681.5	669.2	629.2	589.2	567.8	571.5	574.4	566.6
39.5°	636.9	650.7	648.8	645.2	631.1	595.7	555.5	534.6	540.5	544.3	536.3
40°	601.8	614.4	611.0	610.0	596.7	563.7	523.0	502.2	511.6	516.0	506.5
40.5°	566.6	579.5	573.7	576.3	563.0	532.7	491.7	471.9	484.2	488.6	479.1
41°	531.7	546.0	539.0	542.9	531.3	503.4	462.4	442.5	457.8	462.9	452.5
41.5°	498.8	513.1	505.6	510.7	499.7	474.8	434.8	416.4	432.6	437.9	427.0
42°	469.2	482.5	474.3	479.1	471.6	447.9	408.9	391.4	407.9	414.2	402.8
42.5°	440.1	452.5	443.8	447.9	443.0	422.2	384.9	369.1	385.4	391.4	379.3
43°	412.0	423.2	414.9	418.8	416.4	397.2	362.6	348.3	363.1	369.4	357.2
43.5°	383.9	394.1	387.5	390.0	390.4	373.2	341.5	329.1	341.5	347.8	336.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	310.2	315.3	312.9	314.1	318.7	308.8	285.0	275.1	282.3	287.4	278.7
45.5°	286.2	291.6	289.9	292.3	297.4	287.7	267.8	258.8	264.4	268.5	261.3
46°	265.6	270.0	268.3	271.2	275.8	268.0	250.8	242.8	247.0	250.1	244.3
46.5°	244.3	248.4	247.2	250.4	256.2	249.6	235.1	227.8	231.0	233.6	228.5
47°	225.2	228.1	227.6	231.2	237.0	232.9	219.6	212.8	215.2	217.4	213.0
47.5°	205.3	208.2	208.2	212.5	219.3	215.9	204.1	197.8	199.2	200.9	197.3
48°	187.8	190.3	190.0	194.4	201.6	199.2	188.6	182.7	183.2	184.4	181.8
48.5°	171.1	173.3	173.3	177.6	184.0	182.3	173.0	168.0	167.5	168.0	166.3
49°	156.6	157.8	157.8	161.7	166.5	165.5	159.0	154.1	153.7	154.4	152.7
49.5°	142.3	142.7	143.0	145.9	151.2	150.7	145.7	141.1	140.1	141.1	139.6
50°	128.2	128.2	128.5	131.4	136.9	136.4	131.4	127.7	127.2	128.0	126.3
50.5°	113.4	113.4	113.2	115.8	121.9	121.4	117.3	113.7	113.7	114.2	112.5
51°	97.4	97.2	96.7	98.9	105.4	105.2	101.3	98.2	98.4	98.4	96.7
51.5°	79.7	79.5	79.3	79.5	88.0	87.7	85.1	82.4	82.6	82.2	80.7
52°	65.2	65.0	65.0	65.2	70.0	69.1	67.1	65.7	65.9	65.0	63.5
52.5°	50.7	50.4	50.9	50.9	53.6	52.1	50.7	49.9	49.4	49.0	47.7
53°	36.1	36.1	36.6	36.4	44.1	42.9	41.4	41.0	40.5	40.2	39.3
53.5°	21.6	21.8	22.5	22.3	34.7	33.7	32.5	32.0	31.7	31.5	30.5
54°	13.1	13.3	13.8	13.8	25.0	24.2	23.5	23.0	23.0	22.8	22.1
54.5°	7.8	8.0	8.5	8.2	15.5	15.0	14.5	14.3	14.3	14.1	13.3
55°	6.8	6.8	7.0	7.0	6.5	6.1	5.6	5.3	5.3	5.3	5.3
55.5°	5.6	5.6	5.8	5.8	5.1	4.8	4.4	4.4	4.1	4.1	4.4
56°	4.4	4.4	4.6	4.8	4.4	4.1	3.9	3.6	3.6	3.6	3.9
56.5°	3.2	3.2	3.4	3.6	3.9	3.6	3.4	3.4	3.2	3.4	3.4
57°	2.9	2.9	3.2	3.4	3.6	3.4	3.2	2.9	2.9	2.9	3.2
57.5°	2.7	2.7	2.9	3.2	3.2	3.2	2.9	2.7	2.7	2.7	2.9
58°	2.4	2.4	2.7	2.9	2.9	2.9	2.7	2.7	2.4	2.4	2.7
58.5°	2.2	2.2	2.4	2.7	2.7	2.7	2.4	2.4	2.2	2.4	2.4
59°	1.9	2.2	2.2	2.4	2.7	2.4	2.2	2.2	2.2	2.2	2.2
59.5°	1.9	1.9	2.2	2.2	2.4	2.2	2.2	1.9	1.9	1.9	2.2
60°	1.7	1.7	1.9	2.2	2.2	2.2	1.9	1.9	1.9	1.9	1.9
60.5°	1.7	1.7	1.7	1.9	1.9	1.9	1.7	1.7	1.7	1.7	1.7
61°	1.5	1.5	1.7	1.7	1.9	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: P775950

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-2700K

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: P775950
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-2700K

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: P775950

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3262.4	3262.4	3262.4	3262.4	3262.4	3262.4
0.5°	3263.9	3266.8	3259.7	3256.1	3253.7	3252.0
1°	3265.8	3262.4	3253.2	3248.3	3245.4	3243.3
1.5°	3263.1	3253.4	3244.7	3240.6	3238.2	3234.8
2°	3254.9	3240.8	3234.0	3233.8	3232.1	3226.8
2.5°	3241.1	3224.6	3223.1	3229.0	3228.0	3219.0
3°	3224.1	3206.7	3212.5	3226.0	3225.6	3211.0
3.5°	3204.7	3188.0	3201.6	3224.8	3224.8	3202.3
4°	3185.6	3170.1	3190.2	3224.1	3224.8	3192.4
4.5°	3166.4	3151.6	3176.8	3222.7	3223.4	3179.5
5°	3148.7	3133.2	3161.8	3217.6	3218.3	3163.8
5.5°	3132.5	3116.3	3143.6	3206.4	3208.4	3145.3
6°	3118.2	3102.0	3124.7	3189.9	3193.1	3126.0
6.5°	3107.0	3090.1	3105.4	3168.9	3172.7	3105.8
7°	3097.8	3079.9	3086.4	3144.4	3148.5	3087.2
7.5°	3089.1	3070.7	3067.5	3116.0	3116.7	3068.0
8°	3079.2	3059.5	3047.4	3086.9	3085.2	3049.6
8.5°	3064.2	3044.5	3027.3	3052.8	3047.7	3029.0
9°	3043.6	3025.1	3004.8	3015.9	3010.1	3008.9
9.5°	3015.7	3000.4	2980.3	2977.1	2970.4	2988.3
10°	2981.7	2971.1	2953.9	2940.3	2934.2	2968.9
10.5°	2942.0	2939.3	2925.5	2904.4	2901.0	2948.5
11°	2899.3	2901.8	2894.5	2871.7	2870.0	2928.7
11.5°	2855.2	2857.4	2860.1	2839.7	2840.9	2906.6
12°	2807.5	2809.9	2822.8	2808.7	2815.0	2883.1
12.5°	2758.1	2760.5	2782.5	2776.5	2789.3	2856.2
13°	2709.3	2709.3	2740.6	2744.2	2763.9	2828.1
13.5°	2658.7	2658.2	2695.3	2708.6	2736.0	2795.6
14°	2606.6	2608.8	2648.3	2672.5	2706.9	2761.9
14.5°	2558.1	2562.2	2602.2	2635.4	2675.2	2725.6
15°	2511.8	2517.9	2556.7	2598.6	2642.9	2687.5
15.5°	2467.7	2475.0	2512.8	2561.7	2610.5	2650.0
16°	2424.3	2432.3	2468.9	2523.9	2575.8	2610.9
16.5°	2380.9	2390.9	2425.3	2484.4	2539.4	2570.7
17°	2336.8	2348.9	2382.9	2444.4	2500.7	2528.1
17.5°	2293.0	2306.8	2339.3	2404.4	2461.4	2485.9
18°	2250.6	2266.1	2297.1	2364.0	2421.4	2442.3
18.5°	2210.8	2230.4	2257.6	2324.2	2381.4	2399.8
19°	2176.4	2197.2	2223.6	2289.1	2345.1	2360.3
19.5°	2145.4	2168.4	2193.6	2260.0	2314.3	2325.7
20°	2115.3	2139.1	2163.8	2233.8	2287.4	2294.4
20.5°	2082.4	2109.3	2133.7	2206.9	2260.5	2266.3
21°	2045.8	2075.1	2101.0	2176.9	2231.4	2234.3

TEST NUMBER: P775950

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1918.8	1955.1	1992.7	2068.5	2124.5	2121.4
23°	1875.6	1911.7	1952.2	2026.9	2081.6	2076.5
23.5°	1832.7	1868.6	1912.5	1984.0	2039.0	2032.9
24°	1789.6	1824.2	1872.5	1942.0	1994.6	1990.7
24.5°	1746.7	1781.3	1832.7	1900.6	1951.7	1950.5
25°	1703.5	1739.2	1790.1	1859.4	1908.3	1911.7
25.5°	1665.0	1699.2	1750.3	1817.9	1864.7	1874.7
26°	1625.5	1658.7	1708.4	1774.3	1819.4	1835.6
26.5°	1584.5	1618.2	1666.0	1729.2	1774.6	1795.6
27°	1543.3	1577.0	1620.2	1682.0	1727.1	1753.7
27.5°	1499.5	1533.2	1575.3	1632.5	1679.1	1709.8
28°	1454.9	1488.6	1527.1	1579.7	1630.6	1662.8
28.5°	1406.9	1442.3	1478.2	1528.8	1585.0	1613.4
29°	1358.9	1395.7	1428.0	1477.9	1535.6	1561.3
29.5°	1311.6	1346.5	1379.0	1428.2	1488.1	1510.9
30°	1266.3	1299.3	1331.0	1379.0	1439.1	1459.7
30.5°	1221.7	1251.5	1282.1	1332.0	1391.4	1409.6
31°	1179.8	1204.5	1235.8	1284.5	1343.6	1361.1
31.5°	1137.4	1158.5	1190.5	1238.5	1296.6	1314.1
32°	1097.9	1112.9	1145.9	1193.1	1249.4	1268.8
32.5°	1056.0	1069.8	1101.5	1146.4	1203.1	1224.2
33°	1016.0	1027.1	1058.6	1101.8	1159.0	1181.3
33.5°	974.5	985.7	1015.2	1058.1	1115.8	1137.9
34°	932.8	943.5	972.1	1015.2	1072.7	1094.5
34.5°	892.1	900.6	930.7	974.3	1030.8	1050.4
35°	852.6	858.9	888.2	932.6	988.6	1006.8
35.5°	813.4	819.2	849.5	893.6	948.1	963.6
36°	775.8	779.2	810.7	866.4	905.9	920.7
36.5°	737.7	739.4	772.2	826.0	860.1	876.9
37°	702.6	699.7	733.4	785.0	820.4	836.4
37.5°	665.3	662.6	694.8	744.3	780.9	795.9
38°	629.4	628.0	659.0	703.6	741.1	755.4
38.5°	594.3	593.8	625.0	667.2	701.6	715.0
39°	559.1	562.3	592.3	632.1	665.0	674.5
39.5°	525.2	529.6	560.3	597.7	628.4	636.9
40°	493.0	500.2	529.1	563.5	594.0	601.8
40.5°	462.4	470.7	500.2	531.5	560.3	566.6
41°	434.8	444.2	472.1	500.5	527.9	531.7
41.5°	409.1	418.3	445.5	471.4	496.6	498.8
42°	385.1	393.8	421.5	443.5	465.6	469.2
42.5°	363.5	371.8	396.7	417.3	436.7	440.1
43°	343.2	350.0	373.2	390.7	408.4	412.0
43.5°	324.3	329.6	350.7	365.5	381.2	383.9



TEST NUMBER: P775950

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	272.2	274.4	289.4	296.9	306.3	310.2
45.5°	255.9	257.4	270.0	276.0	284.3	286.2
46°	240.2	240.9	251.1	256.4	263.9	265.6
46.5°	225.2	224.2	232.7	237.0	243.8	244.3
47°	210.4	208.4	215.0	218.4	224.7	225.2
47.5°	195.6	192.9	197.5	200.7	206.5	205.3
48°	180.8	177.9	181.8	184.0	189.0	187.8
48.5°	165.8	163.8	166.5	168.0	172.3	171.1
49°	152.7	150.3	152.7	153.4	157.5	156.6
49.5°	139.6	136.7	138.9	138.9	143.0	142.3
50°	126.0	122.4	124.6	124.8	128.7	128.2
50.5°	112.0	107.4	109.8	109.8	113.7	113.4
51°	96.2	90.6	92.8	93.8	97.7	97.4
51.5°	80.5	76.3	78.3	79.0	80.0	79.7
52°	63.0	62.0	63.5	64.2	65.2	65.2
52.5°	48.2	47.7	49.0	49.4	50.4	50.7
53°	39.5	33.4	34.2	34.7	35.9	36.1
53.5°	31.0	19.1	19.6	20.1	21.1	21.6
54°	22.3	11.4	11.9	12.1	12.8	13.1
54.5°	13.8	6.8	7.3	7.3	7.5	7.8
55°	5.6	6.1	6.3	6.1	6.3	6.8
55.5°	4.6	5.3	5.3	5.3	5.3	5.6
56°	4.1	4.4	4.4	4.4	4.4	4.4
56.5°	3.6	3.6	3.4	3.4	3.2	3.2
57°	3.4	3.2	3.2	2.9	2.9	2.9
57.5°	3.2	2.9	2.9	2.7	2.7	2.7
58°	2.9	2.7	2.7	2.4	2.4	2.4
58.5°	2.7	2.7	2.4	2.4	2.2	2.2
59°	2.4	2.4	2.2	2.2	2.2	1.9
59.5°	2.2	2.2	2.2	1.9	1.9	1.9
60°	2.2	1.9	1.9	1.9	1.7	1.7
60.5°	1.9	1.9	1.9	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: P775950

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-2700K

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: P775950

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-2700K

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



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Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	2199.2	2206.9	2207.7	2208.9	2168.4	2115.3	2079.4	2044.1	2023.2	1983.7	2019.1
22°	2160.4	2168.1	2170.6	2176.6	2136.2	2079.7	2038.2	1999.2	1980.6	1944.0	1978.6



44°	358.7	366.9	361.1	362.6	365.5	350.2	321.9	309.5	320.9	326.9	316.3
44.5°	334.2	340.3	336.2	337.4	341.2	329.4	303.7	292.3	301.0	306.8	297.1



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°	2007.0	2038.2	2067.3	2143.9	2199.4	2199.2
22°	1963.8	1997.5	2029.5	2108.5	2163.1	2160.4



44°	305.9	310.0	329.9	341.5	354.8	358.7
44.5°	288.7	292.0	308.8	318.7	329.6	334.2



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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Scaled Data Report



(END OF REPORT)