

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: P776059

Luminaire Tested: HCDJBL51525CSD-HCD62TRH-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776059
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-5000K
Description: 6 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2720.6 lumens
Efficiency: N/A
Efficacy: 108.8 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

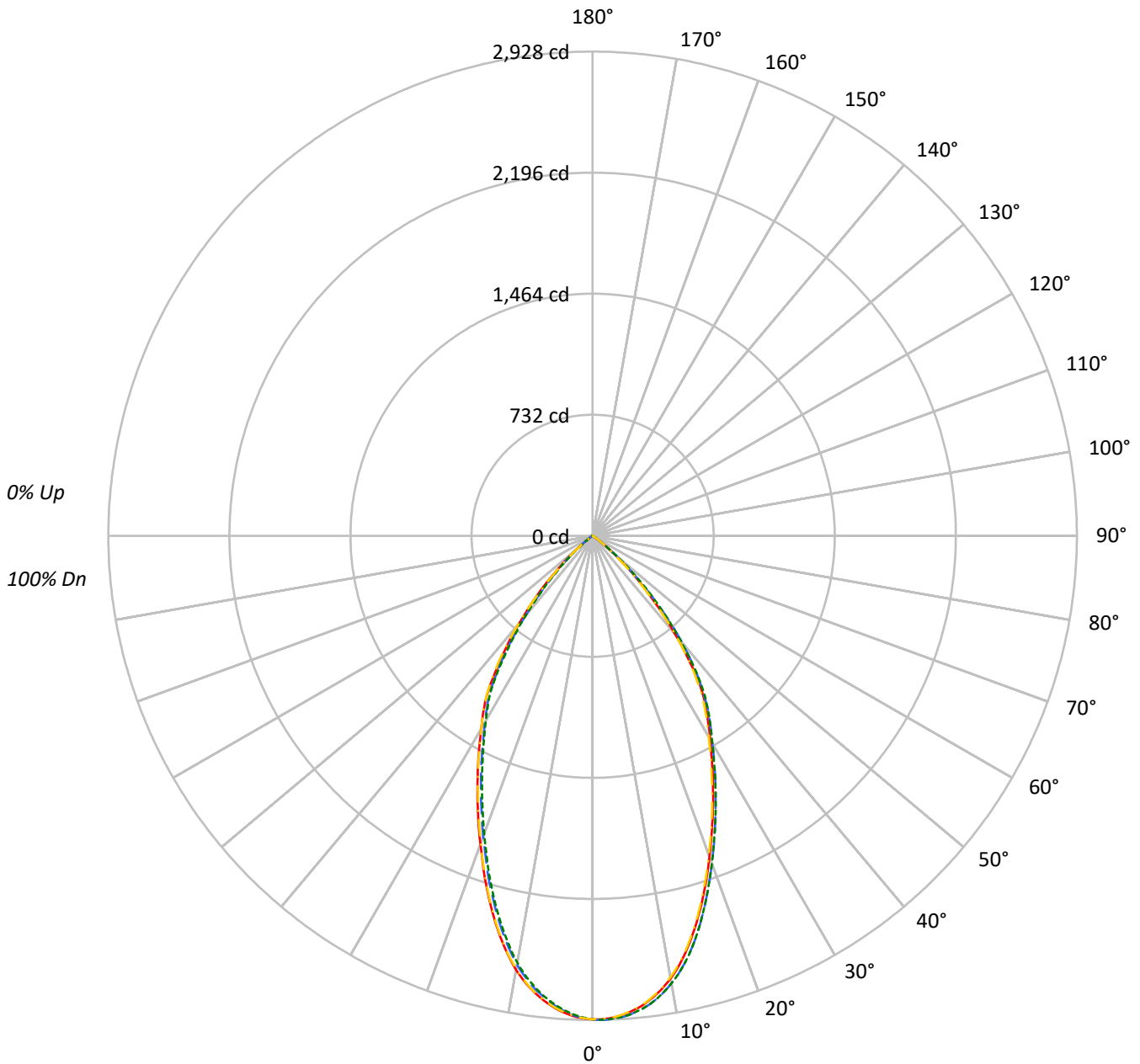
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86	86	86	86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	160283	160283	160283	160283
5°	158425	159316	157032	155866
10°	151272	152981	148355	145884
15°	137606	140080	133236	129768
20°	120574	123001	115773	111823
25°	104268	106464	99580	95582
30°	89951	91666	85342	81766
35°	77303	79116	70443	66716
40°	55690	59053	49428	45106
45°	32980	36841	28135	24437
50°	13671	15982	9663	8059
55°	2322	3058	2322	1529
60°	965	910	932	767
65°	571	532	571	467
70°	369	369	369	337
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: 39206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	9.8
10°-20°	662.1	24.3
20°-30°	770.3	28.3
30°-40°	669.9	24.6
40°-50°	308.2	11.3
50°-60°	36.4	1.3
60°-70°	4.4	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°	1700.3	62.5
0°-40°	2370.2	87.1
0°-60°	2714.8	99.8
0°-90°	2720.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2720.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2924	2924	2924	2924	2924	
5°	2879	2895	2854	2832	2879	270
15°	2425	2468	2348	2286	2425	674
25°	1724	1760	1646	1580	1724	792
35°	1155	1182	1053	997	1155	702
45°	425	475	363	315	425	334
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8
0.5°	2925.1	2927.1	2927.4	2925.1	2925.6	2924.0	2923.0	2923.5	2923.0	2923.3	2922.7
1°	2924.5	2927.4	2928.4	2927.1	2926.4	2924.0	2922.7	2921.7	2920.2	2919.9	2918.9
1.5°	2922.2	2926.4	2928.4	2927.9	2926.4	2923.3	2920.9	2918.6	2916.0	2914.7	2913.2
2°	2919.6	2924.8	2927.1	2927.6	2925.1	2921.7	2918.3	2914.2	2910.9	2908.5	2906.0
2.5°	2915.5	2921.7	2924.5	2926.4	2923.0	2918.3	2914.0	2908.5	2904.4	2901.1	2897.7
3°	2910.3	2917.6	2920.7	2924.3	2919.4	2914.5	2908.5	2902.3	2896.4	2892.3	2888.1
3.5°	2904.4	2912.2	2916.3	2920.9	2915.3	2909.6	2902.1	2894.9	2887.6	2882.0	2877.8
4°	2896.9	2905.7	2910.3	2916.3	2910.1	2903.1	2894.9	2885.6	2877.3	2870.9	2866.2
4.5°	2888.4	2898.2	2903.9	2910.3	2903.4	2895.4	2886.1	2875.8	2865.9	2858.5	2853.3
5°	2878.9	2889.7	2895.4	2903.9	2895.1	2886.9	2876.0	2864.7	2853.6	2844.8	2838.6
5.5°	2868.5	2880.1	2886.6	2895.6	2886.3	2876.5	2864.9	2852.8	2840.4	2830.3	2823.6
6°	2856.4	2869.0	2876.8	2886.9	2876.0	2865.4	2853.0	2838.3	2825.2	2814.3	2807.1
6.5°	2843.8	2857.7	2865.4	2876.5	2864.4	2853.3	2839.6	2823.6	2809.7	2798.3	2789.8
7°	2829.0	2844.0	2852.5	2865.4	2852.3	2840.1	2824.9	2808.1	2792.9	2780.8	2771.7
7.5°	2813.3	2829.6	2838.6	2852.5	2838.1	2824.4	2808.9	2791.9	2774.3	2761.2	2751.9
8°	2796.5	2813.3	2822.6	2838.6	2822.8	2807.9	2791.9	2773.0	2755.2	2741.0	2730.7
8.5°	2778.7	2796.8	2806.3	2823.4	2805.8	2791.4	2773.5	2753.1	2734.6	2719.6	2708.8
9°	2759.3	2778.4	2788.0	2806.1	2788.0	2772.8	2754.2	2732.5	2712.9	2696.6	2685.3
9.5°	2739.0	2758.6	2769.4	2788.0	2768.9	2752.6	2733.0	2711.6	2689.7	2672.9	2660.5
10°	2717.5	2737.4	2748.5	2768.6	2748.2	2731.5	2711.3	2687.1	2665.1	2647.6	2633.9
10.5°	2694.0	2716.2	2727.1	2748.2	2727.3	2709.8	2687.3	2662.5	2638.5	2618.9	2605.0
11°	2669.8	2692.5	2703.8	2726.8	2703.8	2685.5	2662.8	2635.7	2610.4	2588.2	2574.5
11.5°	2643.4	2666.7	2678.8	2703.6	2679.3	2660.2	2636.2	2607.8	2580.5	2558.3	2543.8
12°	2615.1	2640.1	2652.0	2678.3	2653.0	2632.9	2607.3	2577.4	2550.3	2527.5	2511.8
12.5°	2585.9	2611.2	2624.3	2651.4	2625.6	2604.2	2577.6	2547.4	2518.0	2494.5	2478.5
13°	2555.7	2581.8	2595.7	2623.6	2596.5	2574.8	2547.7	2515.9	2485.7	2461.0	2444.4
13.5°	2524.5	2551.3	2565.8	2594.7	2566.3	2543.6	2515.9	2483.4	2452.2	2426.6	2409.1
14°	2491.9	2519.8	2534.0	2565.2	2534.3	2512.1	2483.2	2449.6	2417.8	2392.8	2374.7
14.5°	2458.9	2487.0	2502.0	2532.2	2501.5	2478.2	2449.1	2415.3	2383.5	2356.2	2338.9
15°	2424.6	2453.7	2467.7	2501.0	2468.2	2444.2	2415.0	2380.7	2347.6	2321.1	2302.7
15.5°	2389.7	2419.1	2433.1	2467.1	2434.4	2409.8	2380.7	2345.6	2312.0	2284.9	2266.1
16°	2354.9	2384.5	2398.7	2432.6	2399.0	2374.7	2345.8	2309.4	2276.1	2249.0	2229.9
16.5°	2320.0	2349.7	2364.4	2398.0	2363.6	2339.6	2310.5	2274.3	2240.8	2212.1	2193.5
17°	2284.9	2314.1	2328.0	2362.9	2328.3	2303.8	2273.6	2237.9	2204.1	2175.2	2156.1
17.5°	2248.3	2278.2	2291.9	2326.5	2291.6	2266.6	2237.4	2202.3	2167.2	2138.8	2118.2
18°	2212.1	2241.5	2255.7	2290.3	2255.2	2230.2	2201.0	2165.7	2130.0	2101.1	2080.0
18.5°	2176.0	2205.7	2219.1	2253.4	2218.3	2194.1	2164.6	2127.7	2093.4	2063.7	2042.5
19°	2139.3	2169.5	2181.7	2216.3	2181.9	2157.7	2127.2	2091.1	2055.7	2026.0	2005.4
19.5°	2103.5	2132.9	2145.5	2179.3	2145.0	2121.0	2090.0	2055.4	2018.8	1991.2	1970.5
20°	2066.8	2096.0	2108.1	2142.7	2108.4	2083.8	2054.1	2018.0	1984.5	1956.3	1935.4
20.5°	2030.4	2060.3	2072.2	2105.3	2071.2	2046.9	2017.5	1983.7	1950.1	1921.5	1900.3
21°	1994.8	2024.5	2036.9	2069.9	2034.8	2011.0	1983.2	1949.4	1915.8	1886.6	1865.2



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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°	1890.2	1918.4	1929.7	1960.7	1930.5	1907.5	1880.4	1846.4	1811.8	1782.6	1760.9
23°	1856.2	1883.3	1895.1	1925.6	1895.9	1872.9	1846.1	1811.5	1778.2	1748.0	1727.6
23.5°	1822.9	1849.2	1860.8	1890.8	1861.6	1838.4	1811.0	1778.0	1744.4	1715.0	1694.3
24°	1788.8	1815.9	1826.5	1855.7	1827.0	1804.3	1776.9	1744.9	1711.4	1681.9	1660.8
24.5°	1756.5	1782.6	1792.4	1821.3	1793.4	1769.2	1743.6	1711.9	1678.3	1649.7	1628.5
25°	1723.8	1749.6	1759.4	1788.3	1760.1	1736.4	1710.1	1678.6	1646.3	1617.4	1596.5
25.5°	1691.5	1716.8	1726.6	1755.2	1726.6	1704.4	1677.5	1646.8	1614.8	1585.4	1565.5
26°	1659.7	1685.8	1694.3	1721.9	1694.1	1672.6	1645.8	1615.3	1583.3	1554.4	1534.5
26.5°	1628.8	1652.8	1662.6	1688.4	1662.1	1639.9	1614.0	1583.6	1551.8	1523.4	1502.5
27°	1597.3	1621.3	1630.3	1656.6	1630.1	1607.3	1582.3	1552.6	1521.1	1493.0	1472.3
27.5°	1566.3	1590.3	1598.8	1625.1	1598.3	1577.7	1551.6	1521.6	1490.7	1463.0	1442.4
28°	1536.1	1560.6	1567.8	1593.9	1566.8	1546.4	1520.6	1492.0	1461.0	1432.8	1413.2
28.5°	1505.9	1530.4	1537.4	1562.9	1536.6	1515.4	1490.7	1461.8	1431.0	1403.7	1384.1
29°	1477.2	1500.0	1507.4	1531.7	1506.4	1485.8	1462.0	1432.8	1403.2	1375.5	1355.7
29.5°	1449.1	1471.3	1477.5	1502.0	1477.2	1456.9	1432.8	1404.7	1375.0	1348.2	1328.6
30°	1421.0	1443.4	1449.6	1473.4	1448.1	1428.7	1404.7	1377.1	1348.2	1320.8	1302.0
30.5°	1393.6	1415.6	1422.0	1445.0	1420.2	1400.6	1377.3	1349.5	1321.1	1294.2	1275.9
31°	1367.0	1388.4	1394.6	1416.6	1393.4	1374.0	1350.2	1323.1	1294.5	1268.2	1249.6
31.5°	1340.2	1361.3	1367.5	1389.5	1366.5	1347.7	1323.9	1297.3	1268.9	1242.9	1224.8
32°	1315.1	1336.3	1341.7	1362.6	1340.7	1321.1	1298.9	1272.3	1243.6	1217.6	1199.2
32.5°	1290.1	1310.5	1315.9	1336.3	1314.4	1295.5	1272.8	1246.0	1218.3	1192.0	1174.5
33°	1265.1	1285.2	1290.6	1310.8	1289.8	1270.2	1247.3	1219.4	1191.0	1163.9	1145.6
33.5°	1238.7	1258.9	1263.8	1284.9	1263.8	1244.9	1219.9	1189.2	1160.3	1131.4	1111.5
34°	1212.7	1232.0	1234.9	1258.9	1238.2	1218.3	1191.0	1157.4	1127.0	1097.5	1077.9
34.5°	1183.5	1202.9	1203.6	1230.7	1211.1	1190.5	1159.5	1124.4	1089.8	1062.7	1041.3
35°	1155.1	1171.9	1172.4	1199.8	1182.2	1161.8	1128.0	1091.6	1052.6	1027.1	1005.7
35.5°	1123.6	1139.9	1141.2	1169.3	1152.5	1132.1	1096.0	1057.0	1013.7	987.6	970.8
36°	1090.1	1106.6	1109.4	1137.6	1121.5	1100.4	1064.0	1022.2	977.3	948.3	935.7
36.5°	1053.1	1072.2	1077.7	1106.6	1087.5	1065.8	1030.2	986.3	941.1	909.9	897.8
37°	1013.1	1037.1	1045.7	1074.8	1052.6	1029.1	995.6	950.2	906.5	871.9	861.1
37.5°	971.6	1001.0	1012.9	1042.3	1015.7	992.2	960.2	912.5	871.4	834.5	822.6
38°	931.3	965.4	978.5	1009.0	977.8	954.8	924.3	876.6	836.8	797.9	785.0
38.5°	893.1	928.0	943.4	975.7	938.8	914.8	887.2	840.5	800.7	762.8	744.9
39°	854.9	889.5	908.1	941.9	900.1	874.0	850.3	805.1	765.1	728.9	708.6
39.5°	816.4	851.0	872.5	905.8	862.7	835.0	811.5	769.5	728.2	692.8	670.6
40°	778.2	812.6	836.8	869.6	825.2	797.9	772.6	734.4	690.7	656.7	634.7
40.5°	740.0	774.4	801.2	833.5	788.1	760.4	732.8	699.3	654.1	622.1	597.6
41°	703.6	735.9	765.9	797.3	752.4	724.0	693.3	663.9	620.0	587.5	562.2
41.5°	666.2	698.5	728.4	761.2	716.8	686.1	654.6	628.0	586.2	553.4	526.3
42°	630.6	663.4	690.7	723.3	682.0	650.5	616.9	591.6	553.4	519.6	491.7
42.5°	593.9	628.8	653.6	685.8	646.3	615.4	580.3	555.7	521.7	487.1	458.9
43°	558.6	593.7	615.6	649.4	611.2	580.3	544.9	520.6	489.7	456.9	428.0
43.5°	523.0	557.3	577.4	612.8	576.4	544.4	509.8	485.5	457.1	424.9	396.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	425.4	456.4	469.5	505.7	475.2	443.7	412.0	384.9	362.9	335.6	312.8
45.5°	393.9	423.8	434.7	471.6	442.9	412.0	380.5	353.6	333.0	306.9	286.8
46°	364.5	392.1	401.6	437.5	412.5	380.7	350.8	323.4	304.3	280.1	262.5
46.5°	335.0	361.1	369.1	404.5	380.5	350.5	321.6	294.0	276.5	256.8	241.1
47°	306.7	331.4	337.1	371.7	349.2	323.2	293.5	269.0	250.9	233.9	219.9
47.5°	279.0	302.5	307.2	340.7	319.8	295.8	266.9	244.2	225.6	210.6	198.5
48°	253.2	274.1	278.5	309.7	291.9	269.0	243.2	219.4	200.0	187.7	177.1
48.5°	228.4	246.0	251.4	280.1	265.9	245.0	219.4	194.6	174.5	164.4	158.7
49°	205.0	219.9	225.6	253.2	239.5	221.0	195.9	169.8	152.6	145.6	141.5
49.5°	182.5	194.6	200.6	225.9	213.5	196.9	172.2	149.7	131.9	127.3	125.4
50°	160.3	170.6	177.1	200.8	187.4	173.2	152.0	131.1	113.3	111.3	110.5
50.5°	139.9	148.2	155.1	176.6	161.3	152.0	132.7	114.1	97.1	96.0	96.3
51°	120.5	127.8	134.7	154.6	139.6	131.6	115.4	98.3	82.9	82.9	83.4
51.5°	102.5	108.9	115.6	132.9	120.3	113.3	99.9	84.7	71.2	71.0	72.0
52°	85.7	92.4	97.8	113.8	102.0	95.8	85.4	71.8	60.9	60.4	61.4
52.5°	73.8	80.5	85.2	96.3	84.9	80.3	72.3	60.4	51.9	50.9	51.4
53°	61.9	68.7	72.5	83.9	70.2	66.3	60.1	50.6	44.1	42.6	42.6
53.5°	50.1	57.0	59.9	71.5	57.3	53.9	49.8	42.1	37.2	35.4	34.8
54°	38.5	45.2	47.2	59.1	46.2	43.6	40.8	34.6	31.0	31.2	30.7
54.5°	30.5	33.6	34.6	46.7	36.9	34.8	35.4	30.5	27.6	27.1	26.3
55°	24.3	26.3	27.1	34.3	32.0	30.5	29.9	26.3	24.3	22.7	21.9
55.5°	19.4	20.6	20.9	26.8	27.4	26.1	24.8	22.2	20.9	18.6	17.8
56°	16.3	16.8	16.5	20.6	22.5	21.7	19.6	18.3	17.6	14.5	13.4
56.5°	14.5	14.7	14.5	16.3	17.6	17.3	14.5	14.2	14.2	13.2	12.4
57°	13.4	13.4	13.2	13.9	12.9	12.9	13.2	13.2	13.2	12.4	11.6
57.5°	12.6	12.6	12.1	12.6	11.9	11.9	12.1	12.4	12.1	11.6	10.8
58°	11.6	11.6	11.4	11.6	11.1	11.1	11.4	11.6	11.4	10.8	10.1
58.5°	10.8	10.8	10.3	10.8	10.3	10.3	10.6	10.8	10.6	10.1	9.3
59°	10.1	10.1	9.8	10.1	9.6	9.6	9.8	10.1	9.8	9.3	8.8
59.5°	9.6	9.3	9.0	9.3	8.8	8.8	9.0	9.3	9.3	8.8	8.0
60°	8.8	8.8	8.5	8.8	8.3	8.3	8.5	8.5	8.5	8.0	7.5
60.5°	8.3	8.0	7.7	8.0	7.7	7.7	7.7	8.0	8.0	7.5	7.0
61°	7.5	7.5	7.2	7.5	7.0	7.2	7.2	7.5	7.5	7.0	6.5
61.5°	7.0	7.0	6.7	7.0	6.7	6.7	6.7	7.0	7.0	6.5	6.2
62°	6.5	6.5	6.2	6.5	6.2	6.2	6.5	6.5	6.5	6.2	5.7
62.5°	6.2	6.2	5.7	5.9	5.7	5.7	5.9	6.2	6.2	5.7	5.4
63°	5.7	5.7	5.4	5.7	5.4	5.4	5.4	5.7	5.7	5.4	4.9
63.5°	5.4	5.4	5.2	5.2	4.9	5.2	5.2	5.4	5.4	5.2	4.6
64°	5.2	4.9	4.6	4.9	4.6	4.6	4.9	5.2	5.2	4.9	4.4
64.5°	4.6	4.6	4.4	4.6	4.4	4.4	4.6	4.6	4.6	4.4	4.1
65°	4.4	4.4	4.1	4.4	4.1	4.1	4.4	4.4	4.4	4.1	3.9
65.5°	4.1	4.1	3.9	4.1	3.9	3.9	4.1	4.1	4.1	3.9	3.6
66°	3.9	3.9	3.6	3.9	3.6	3.6	3.9	3.9	3.9	3.6	3.4



TEST NUMBER: P776059

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	3.4	3.1	3.1	3.1	3.1	3.1	3.1	3.4	3.4	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	2.6	2.8	2.6	2.6	2.8	2.8	2.8	2.8	2.6
69°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.8	2.8	2.6	2.3
69.5°	2.6	2.6	2.3	2.3	2.3	2.3	2.6	2.6	2.6	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	2.1
70.5°	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.1	2.1
71°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.8
71.5°	2.1	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1	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: P776059
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-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: P776059

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2923.8	2923.8	2923.8	2923.8	2923.8	2923.8
0.5°	2917.6	2919.6	2919.6	2920.9	2923.0	2925.1
1°	2912.2	2915.3	2915.8	2918.1	2920.9	2924.5
1.5°	2905.2	2908.8	2910.1	2913.4	2918.1	2922.2
2°	2896.7	2901.8	2903.9	2908.3	2914.0	2919.6
2.5°	2887.1	2893.1	2895.6	2901.8	2909.1	2915.5
3°	2876.3	2883.2	2886.9	2893.8	2902.6	2910.3
3.5°	2864.1	2872.9	2876.8	2885.1	2894.9	2904.4
4°	2851.2	2860.0	2865.7	2874.7	2886.1	2896.9
4.5°	2836.8	2847.1	2853.0	2863.4	2876.3	2888.4
5°	2821.6	2832.4	2839.4	2850.7	2865.4	2878.9
5.5°	2804.5	2817.2	2824.4	2837.0	2853.6	2868.5
6°	2787.2	2800.9	2808.9	2822.3	2840.7	2856.4
6.5°	2768.4	2782.6	2792.1	2806.8	2826.2	2843.8
7°	2748.8	2763.7	2774.1	2790.1	2810.5	2829.0
7.5°	2728.1	2743.3	2754.4	2771.5	2793.4	2813.3
8°	2705.1	2721.9	2733.5	2752.1	2775.1	2796.5
8.5°	2681.1	2699.2	2712.1	2731.0	2756.0	2778.7
9°	2656.1	2674.4	2688.1	2708.8	2734.8	2759.3
9.5°	2629.3	2649.1	2663.3	2685.5	2713.1	2739.0
10°	2600.6	2620.7	2635.7	2660.7	2690.7	2717.5
10.5°	2569.6	2592.1	2608.1	2634.2	2665.9	2694.0
11°	2537.6	2562.1	2578.7	2605.2	2639.6	2669.8
11.5°	2505.9	2529.4	2549.0	2575.8	2611.2	2643.4
12°	2472.6	2497.1	2515.4	2545.9	2581.8	2615.1
12.5°	2438.5	2463.0	2482.4	2513.9	2551.6	2585.9
13°	2403.9	2428.9	2450.1	2481.9	2520.8	2555.7
13.5°	2368.5	2393.8	2416.0	2447.5	2487.8	2524.5
14°	2332.9	2359.3	2380.2	2412.9	2454.8	2491.9
14.5°	2296.0	2323.4	2344.5	2379.4	2420.4	2458.9
15°	2260.6	2286.5	2308.7	2343.5	2386.1	2424.6
15.5°	2223.5	2249.8	2273.0	2307.9	2351.0	2389.7
16°	2186.1	2212.9	2236.1	2270.5	2315.4	2354.9
16.5°	2149.1	2176.2	2199.7	2235.4	2279.8	2320.0
17°	2111.5	2139.3	2162.6	2199.0	2244.4	2284.9
17.5°	2074.5	2101.6	2125.4	2162.0	2208.0	2248.3
18°	2035.3	2063.7	2087.2	2124.1	2171.3	2212.1
18.5°	1998.9	2025.5	2049.8	2086.7	2134.7	2176.0
19°	1962.8	1988.8	2012.3	2051.3	2097.8	2139.3
19.5°	1926.6	1953.0	1976.7	2015.7	2062.2	2103.5
20°	1890.5	1916.8	1941.9	1979.3	2026.0	2066.8
20.5°	1854.6	1881.7	1906.5	1943.7	1990.7	2030.4
21°	1822.9	1845.3	1870.4	1907.8	1954.3	1994.8

TEST NUMBER: P776059

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1720.9	1742.9	1768.1	1806.1	1850.7	1890.2
23°	1687.6	1709.6	1734.1	1771.5	1816.7	1856.2
23.5°	1654.8	1676.5	1701.8	1739.2	1783.6	1822.9
24°	1623.3	1644.5	1669.5	1705.7	1750.9	1788.8
24.5°	1590.6	1612.5	1637.0	1674.2	1717.6	1756.5
25°	1559.8	1580.2	1605.3	1640.9	1685.5	1723.8
25.5°	1528.1	1549.5	1574.6	1610.2	1653.8	1691.5
26°	1497.4	1518.8	1543.8	1579.2	1622.6	1659.7
26.5°	1467.4	1488.9	1513.6	1548.7	1591.3	1628.8
27°	1437.2	1458.7	1483.2	1518.5	1560.6	1597.3
27.5°	1407.5	1429.5	1453.2	1488.3	1530.2	1566.3
28°	1379.2	1400.1	1424.1	1457.9	1500.2	1536.1
28.5°	1351.5	1371.7	1395.9	1429.5	1470.8	1505.9
29°	1324.7	1344.6	1368.6	1402.1	1442.4	1477.2
29.5°	1297.1	1317.7	1340.7	1374.3	1414.0	1449.1
30°	1270.7	1291.7	1314.6	1347.4	1387.2	1421.0
30.5°	1245.4	1265.8	1288.6	1320.6	1360.3	1393.6
31°	1220.7	1240.5	1263.8	1295.5	1334.0	1367.0
31.5°	1195.4	1215.5	1239.0	1270.5	1307.7	1340.2
32°	1169.8	1190.7	1213.4	1245.2	1282.6	1315.1
32.5°	1141.9	1165.9	1188.7	1220.7	1258.1	1290.1
33°	1110.7	1136.8	1160.8	1193.0	1233.3	1265.1
33.5°	1076.6	1104.5	1129.8	1162.8	1206.0	1238.7
34°	1039.7	1070.4	1096.5	1130.8	1176.0	1212.7
34.5°	1003.1	1033.8	1060.1	1099.6	1145.6	1183.5
35°	967.2	996.9	1023.2	1065.5	1113.5	1155.1
35.5°	931.1	957.9	986.3	1032.2	1080.5	1123.6
36°	894.1	915.3	950.4	997.4	1046.2	1090.1
36.5°	855.7	879.2	927.7	961.8	1011.3	1053.1
37°	817.5	843.5	889.8	926.4	975.7	1013.1
37.5°	780.1	807.9	851.6	889.2	938.3	971.6
38°	741.1	772.0	813.3	852.1	899.0	931.3
38.5°	703.4	737.2	775.1	814.9	859.8	893.1
39°	667.3	701.6	739.3	777.7	820.6	854.9
39.5°	631.9	666.0	701.8	740.6	781.3	816.4
40°	596.3	630.3	664.7	703.9	741.8	778.2
40.5°	562.2	595.5	628.0	667.8	702.4	740.0
41°	528.1	561.2	591.9	631.6	662.9	703.6
41.5°	493.5	526.8	557.3	594.5	623.4	666.2
42°	459.7	495.3	523.7	559.6	586.7	630.6
42.5°	428.7	462.6	491.7	523.2	550.1	593.9
43°	397.0	433.4	459.7	487.6	516.2	558.6
43.5°	367.3	402.7	427.5	451.2	481.4	523.0



TEST NUMBER: P776059

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	286.0	315.2	334.3	351.6	386.7	425.4
45.5°	261.7	287.8	304.8	321.6	356.5	393.9
46°	240.1	260.7	276.5	292.7	328.1	364.5
46.5°	218.4	234.6	248.8	265.6	300.5	335.0
47°	196.7	210.6	223.0	240.1	273.9	306.7
47.5°	175.0	187.9	198.5	215.5	248.1	279.0
48°	156.7	166.0	175.5	192.6	223.5	253.2
48.5°	139.4	145.8	153.8	171.1	200.0	228.4
49°	122.6	127.5	133.5	151.5	177.6	205.0
49.5°	107.6	110.5	114.9	133.5	156.9	182.5
50°	94.0	94.5	98.3	116.2	137.3	160.3
50.5°	81.1	84.1	87.5	100.7	119.5	139.9
51°	69.4	73.6	76.7	86.5	103.2	120.5
51.5°	58.6	63.2	65.8	75.6	88.0	102.5
52°	49.3	52.9	55.0	65.0	76.7	85.7
52.5°	40.8	42.3	44.1	54.2	65.3	73.8
53°	33.3	35.4	37.2	43.6	54.2	61.9
53.5°	29.2	28.9	30.7	35.9	43.1	50.1
54°	25.3	23.7	25.3	28.9	34.6	38.5
54.5°	21.2	19.4	20.6	23.2	27.6	30.5
55°	17.0	16.0	16.8	18.6	21.9	24.3
55.5°	12.9	13.7	14.2	15.5	17.6	19.4
56°	11.9	12.4	12.9	13.7	15.2	16.3
56.5°	11.1	11.6	11.9	12.6	13.7	14.5
57°	10.3	10.8	11.1	11.9	12.6	13.4
57.5°	9.8	10.1	10.3	10.8	11.9	12.6
58°	9.0	9.6	9.8	10.1	11.1	11.6
58.5°	8.3	8.8	9.0	9.6	10.3	10.8
59°	7.7	8.3	8.5	8.8	9.6	10.1
59.5°	7.2	7.5	7.7	8.3	9.0	9.6
60°	6.7	7.0	7.2	7.5	8.3	8.8
60.5°	6.2	6.5	6.7	7.0	7.7	8.3
61°	5.9	6.2	6.2	6.5	7.0	7.5
61.5°	5.4	5.7	5.9	6.2	6.7	7.0
62°	5.2	5.4	5.4	5.7	6.2	6.5
62.5°	4.9	4.9	5.2	5.4	5.7	6.2
63°	4.6	4.6	4.9	4.9	5.4	5.7
63.5°	4.4	4.4	4.4	4.6	5.2	5.4
64°	4.1	4.1	4.1	4.4	4.9	5.2
64.5°	3.9	3.9	3.9	4.1	4.4	4.6
65°	3.6	3.6	3.6	3.9	4.1	4.4
65.5°	3.4	3.4	3.6	3.6	3.9	4.1
66°	3.1	3.4	3.4	3.4	3.6	3.9



TEST NUMBER: P776059

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.6	2.6	2.8	2.8	3.1	3.4
68°	2.6	2.6	2.6	2.6	2.8	3.1
68.5°	2.3	2.3	2.3	2.6	2.8	2.8
69°	2.1	2.3	2.3	2.3	2.6	2.6
69.5°	2.1	2.1	2.1	2.3	2.3	2.6
70°	1.8	2.1	2.1	2.1	2.3	2.3
70.5°	1.8	1.8	1.8	2.1	2.1	2.3
71°	1.8	1.8	1.8	1.8	2.1	2.1
71.5°	1.5	1.5	1.5	1.8	1.8	2.1
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: P776059

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRH-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
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Peachtree City, GA 30269

Scaled Data Report





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

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21.5°	1959.9	1987.6	2001.0	2034.3	1999.4	1976.5	1948.8	1915.0	1881.2	1851.8	1830.4
22°	1924.3	1952.2	1964.3	1997.4	1965.1	1942.1	1914.8	1880.7	1846.9	1816.4	1795.5



44°	489.9	523.0	541.5	576.4	541.8	508.5	476.0	450.9	424.9	394.4	367.6
44.5°	457.9	489.4	505.1	540.3	508.0	475.7	443.7	416.9	393.4	364.0	339.4



66.5°	3.6	3.6	3.4	3.6	3.4	3.4	3.6	3.6	3.6	3.6	3.4
67°	3.4	3.4	3.4	3.4	3.1	3.4	3.4	3.4	3.6	3.4	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°	1789.1	1811.0	1836.6	1874.0	1919.7	1959.9
22°	1754.5	1776.4	1801.2	1838.9	1885.3	1924.3



44°	338.4	372.7	395.7	417.1	448.4	489.9
44.5°	311.8	343.3	364.7	382.8	416.9	457.9

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66.5°	2.8	3.1	3.1	3.4	3.6	3.6
67°	2.8	2.8	2.8	3.1	3.4	3.4

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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)