

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: P776100

Luminaire Tested: HCDJBS1525CSD-HCD6TSQC-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776100
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-HCD6TSQC-2500lm-2700K
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

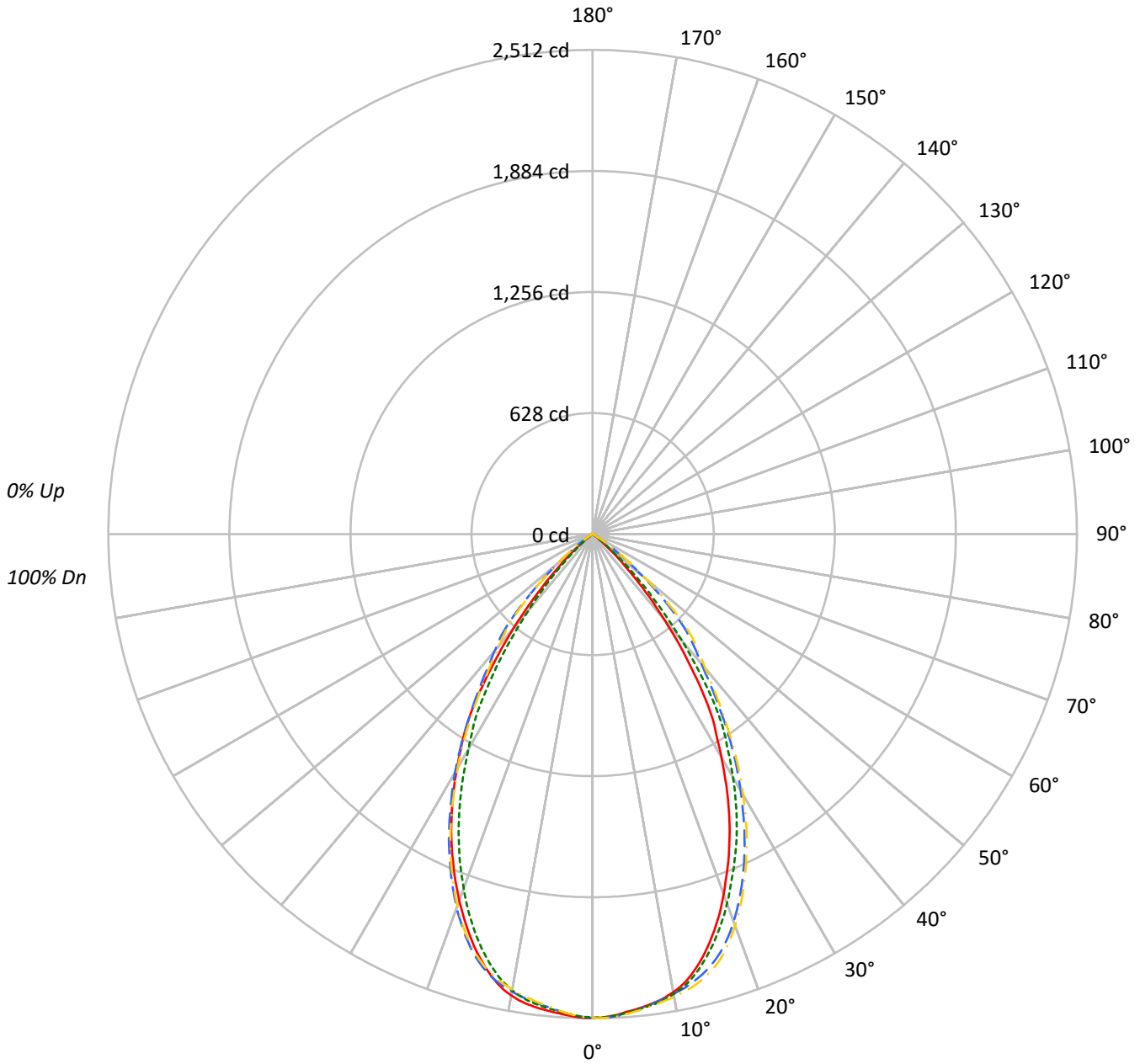
Lumens per Lamp: N/A
Luminaire Lumens: 2737.8 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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					100			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93					93			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79					79			
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72					72			
5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67					67			
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	71	66	63	62					62			
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57					57			
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53					53			
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49					49			
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	108078	108078	108078	108078
5°	107069	107298	107454	106922
10°	105479	105946	106261	105089
15°	100266	101389	101193	99152
20°	91093	93443	92669	89649
25°	79882	83759	82434	78030
30°	66307	72327	70016	64174
35°	51694	59636	55589	48472
40°	32588	40344	35853	29418
45°	15764	21543	17975	13481
50°	4783	7542	5660	3845
55°	638	578	563	488
60°	439	456	456	379
65°	367	367	397	316
70°	302	340	340	239
75°	283	283	283	250
80°	248	248	248	174
85°	99	247	99	99

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 41777 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	8.6
10°-20°	636.1	23.2
20°-30°	804.1	29.4
30°-40°	679.4	24.8
40°-50°	328.0	12.0
50°-60°	49.2	1.8
60°-70°	4.1	0.2
70°-80°	1.9	0.1
80°-90°	0.4	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°	1674.9	61.2
0°-40°	2354.3	86.0
0°-60°	2731.5	99.8
0°-90°	2737.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2510	2510	2510	2510	2510	
5°	2477	2483	2486	2474	2477	235
15°	2249	2275	2270	2224	2249	626
25°	1682	1763	1735	1642	1682	765
35°	984	1135	1058	922	984	601
45°	259	354	295	221	259	211
55°	8	8	8	6	8	17
65°	4	4	4	3	4	4
75°	2	2	2	2	2	2
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°	2510.2	2510.2	2510.2	2510.2	2510.2	2510.2	2510.2	2510.2	2510.2	2510.2	2510.2
0.5°	2510.5	2510.7	2510.5	2510.7	2508.0	2509.7	2511.4	2512.9	2511.2	2509.5	2508.8
1°	2509.0	2510.2	2510.2	2510.7	2507.8	2510.2	2511.7	2512.4	2510.7	2507.3	2506.3
1.5°	2506.6	2508.8	2509.2	2510.2	2506.8	2509.2	2511.4	2511.2	2509.0	2504.9	2503.4
2°	2503.9	2506.8	2507.8	2509.2	2504.6	2508.0	2510.2	2508.8	2506.1	2501.5	2499.8
2.5°	2500.0	2504.6	2505.6	2507.3	2502.2	2505.9	2508.0	2506.1	2503.4	2497.6	2495.7
3°	2496.4	2501.0	2502.5	2504.9	2499.3	2503.2	2505.1	2502.5	2500.0	2493.3	2490.6
3.5°	2491.3	2497.1	2498.6	2501.5	2495.7	2499.6	2501.5	2499.3	2496.4	2488.9	2485.8
4°	2486.2	2492.5	2494.2	2497.4	2491.3	2496.2	2497.4	2495.2	2492.5	2484.3	2479.9
4.5°	2481.4	2487.2	2489.1	2493.0	2487.2	2491.6	2493.3	2491.6	2489.9	2479.7	2474.4
5°	2477.3	2482.1	2483.3	2488.2	2482.6	2487.0	2488.4	2488.2	2486.2	2475.3	2468.8
5.5°	2472.7	2477.3	2477.8	2482.8	2478.5	2482.4	2483.6	2484.3	2482.6	2470.7	2463.7
6°	2467.8	2472.7	2471.2	2477.0	2474.1	2477.8	2478.7	2480.2	2478.7	2465.9	2459.1
6.5°	2462.7	2468.1	2465.4	2471.5	2469.5	2473.2	2473.4	2475.8	2475.6	2461.0	2453.5
7°	2458.1	2462.7	2459.6	2466.1	2464.7	2468.1	2468.6	2471.7	2471.2	2455.5	2448.0
7.5°	2451.8	2457.2	2453.5	2460.3	2459.6	2462.7	2463.5	2466.9	2466.4	2449.4	2442.2
8°	2446.3	2451.6	2448.0	2454.3	2453.8	2457.4	2458.6	2462.0	2461.0	2443.1	2436.3
8.5°	2439.0	2445.3	2441.7	2448.0	2447.7	2451.1	2453.5	2456.4	2455.2	2436.3	2430.5
9°	2430.8	2438.8	2435.4	2441.4	2440.5	2444.6	2448.5	2450.2	2448.2	2428.8	2424.2
9.5°	2421.8	2431.0	2429.3	2434.2	2432.5	2438.0	2443.1	2443.9	2439.7	2420.4	2417.2
10°	2412.6	2422.5	2422.5	2426.9	2423.3	2430.3	2437.8	2435.4	2430.5	2410.7	2409.7
10.5°	2402.7	2413.8	2415.8	2418.9	2414.1	2421.6	2432.0	2426.7	2420.8	2401.0	2402.9
11°	2390.8	2404.6	2408.7	2409.9	2403.7	2412.1	2425.7	2416.5	2409.2	2390.6	2394.7
11.5°	2377.3	2394.4	2401.5	2401.0	2392.3	2402.7	2418.9	2406.8	2396.6	2378.2	2385.5
12°	2363.0	2383.3	2393.0	2390.8	2379.2	2392.5	2411.6	2395.2	2381.9	2364.9	2375.3
12.5°	2347.2	2370.5	2384.3	2380.4	2364.4	2380.4	2404.6	2382.6	2365.9	2350.1	2364.7
13°	2329.8	2356.4	2374.8	2368.8	2348.7	2368.1	2395.9	2368.5	2348.9	2333.7	2352.1
13.5°	2310.9	2341.4	2364.7	2356.9	2331.5	2353.5	2386.5	2353.5	2330.8	2316.7	2339.2
14°	2291.5	2325.4	2354.0	2343.3	2313.3	2338.5	2375.8	2337.1	2311.1	2298.8	2324.7
14.5°	2271.2	2308.2	2342.1	2328.1	2294.4	2321.8	2364.7	2319.4	2291.0	2279.9	2309.7
15°	2249.4	2289.6	2329.3	2311.6	2274.6	2304.6	2353.0	2301.5	2270.2	2260.0	2292.5
15.5°	2226.4	2270.7	2315.7	2294.9	2254.2	2286.7	2340.0	2282.8	2248.4	2240.7	2274.6
16°	2202.9	2250.4	2301.2	2277.5	2232.7	2268.5	2325.4	2263.7	2225.9	2219.1	2255.0
16.5°	2178.4	2229.5	2284.7	2258.6	2210.9	2249.4	2309.4	2243.1	2202.9	2197.3	2233.9
17°	2154.0	2207.7	2267.8	2239.0	2188.4	2229.0	2292.0	2221.3	2178.7	2174.5	2211.6
17.5°	2127.6	2185.0	2249.4	2218.9	2165.1	2208.5	2273.1	2199.7	2153.0	2152.0	2189.8
18°	2101.9	2162.4	2229.5	2198.5	2140.4	2187.4	2252.8	2177.5	2128.0	2127.6	2165.1
18.5°	2075.3	2138.7	2208.7	2177.0	2115.9	2165.6	2231.7	2154.2	2102.4	2102.9	2139.9
19°	2047.4	2114.2	2186.2	2154.9	2091.2	2143.1	2208.9	2130.2	2076.2	2077.9	2114.5
19.5°	2018.1	2089.3	2163.4	2131.7	2066.1	2120.1	2185.7	2106.3	2049.3	2053.5	2089.5
20°	1988.1	2063.1	2139.2	2109.2	2039.4	2096.3	2161.7	2081.3	2022.5	2026.6	2061.0
20.5°	1958.0	2037.7	2114.2	2085.7	2012.0	2072.3	2136.5	2055.9	1994.8	1999.9	2033.4
21°	1926.8	2010.6	2088.6	2061.7	1984.4	2046.9	2110.4	2030.2	1966.5	1973.8	2004.8



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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°	1839.1	1923.9	2007.7	1985.9	1901.6	1968.9	2030.0	1951.5	1881.8	1890.0	1917.4
23°	1808.4	1894.6	1979.4	1959.2	1875.5	1941.1	2000.9	1924.4	1852.4	1862.4	1886.6
23.5°	1776.4	1865.8	1950.3	1932.6	1847.4	1913.5	1972.8	1897.3	1823.1	1832.6	1855.8
24°	1745.4	1837.9	1920.7	1905.0	1819.3	1886.4	1943.5	1869.4	1793.8	1802.8	1825.1
24.5°	1713.7	1809.3	1891.2	1877.4	1791.2	1860.4	1913.7	1839.9	1764.5	1772.8	1794.3
25°	1681.5	1779.6	1860.9	1850.3	1763.1	1831.6	1882.5	1810.5	1735.2	1743.0	1763.6
25.5°	1648.5	1748.6	1830.4	1823.4	1735.0	1803.0	1852.0	1781.0	1704.0	1714.6	1732.8
26°	1615.1	1717.6	1798.4	1795.1	1705.7	1774.2	1821.7	1751.5	1673.0	1683.4	1697.9
26.5°	1581.4	1685.6	1766.5	1765.5	1675.2	1745.4	1791.2	1722.2	1640.5	1651.9	1665.2
27°	1547.5	1654.3	1734.5	1736.4	1644.7	1719.0	1760.7	1690.9	1608.6	1620.2	1631.1
27.5°	1512.4	1621.6	1701.3	1707.4	1613.9	1689.2	1730.1	1659.4	1576.1	1588.5	1597.4
28°	1477.1	1589.9	1668.9	1677.3	1582.9	1658.2	1696.5	1628.2	1543.2	1557.2	1562.3
28.5°	1441.2	1556.3	1634.5	1647.6	1551.9	1627.7	1664.0	1596.5	1509.5	1525.3	1529.1
29°	1405.6	1524.3	1600.8	1616.1	1519.9	1596.9	1629.9	1563.8	1476.6	1492.3	1495.2
29.5°	1369.8	1490.4	1567.4	1584.6	1488.0	1567.4	1595.3	1531.3	1441.9	1460.6	1461.6
30°	1333.7	1458.2	1535.2	1554.8	1454.8	1535.2	1560.6	1498.9	1408.3	1427.9	1426.0
30.5°	1300.3	1423.3	1501.8	1523.1	1421.8	1504.2	1528.2	1466.4	1375.3	1395.2	1391.8
31°	1267.3	1389.6	1467.9	1493.3	1389.9	1472.5	1494.7	1433.7	1344.6	1361.8	1356.0
31.5°	1231.7	1355.0	1434.2	1461.6	1359.6	1442.9	1460.4	1400.3	1310.2	1329.6	1320.6
32°	1200.5	1321.1	1401.3	1430.1	1326.4	1410.0	1425.7	1368.1	1280.9	1298.3	1284.5
32.5°	1174.1	1286.5	1367.1	1397.4	1294.2	1379.0	1391.1	1335.1	1248.2	1268.5	1248.9
33°	1143.6	1255.0	1332.0	1367.1	1268.8	1346.8	1355.2	1305.1	1216.0	1236.3	1213.3
33.5°	1105.8	1223.3	1297.4	1335.9	1238.5	1318.7	1320.9	1272.9	1179.4	1207.5	1178.0
34°	1068.5	1190.1	1263.2	1305.1	1205.6	1286.0	1285.5	1241.7	1140.9	1177.0	1143.6
34.5°	1025.9	1160.5	1228.6	1274.4	1171.7	1253.5	1250.6	1214.3	1100.7	1146.2	1109.2
35°	983.5	1135.1	1194.7	1243.6	1134.6	1227.4	1216.0	1181.1	1057.6	1112.8	1075.0
35.5°	941.8	1106.3	1159.3	1212.1	1096.6	1201.9	1182.3	1150.4	1013.5	1077.2	1042.1
36°	901.4	1070.4	1124.9	1187.7	1054.5	1168.3	1148.9	1115.7	969.2	1038.5	1009.4
36.5°	856.8	1036.1	1091.8	1156.9	1011.8	1138.7	1116.5	1078.4	924.2	999.7	978.2
37°	816.9	995.4	1058.6	1126.4	967.0	1103.6	1083.5	1039.9	881.3	959.3	947.7
37.5°	777.2	956.1	1026.4	1095.1	924.6	1068.0	1052.3	999.7	839.6	918.4	918.4
38°	737.2	917.4	993.9	1060.3	881.1	1029.3	1022.0	958.6	798.2	877.4	889.3
38.5°	697.5	880.1	963.4	1023.9	839.6	991.0	992.7	915.9	758.8	836.5	862.2
39°	656.8	842.1	932.9	985.0	798.7	950.1	964.6	875.2	719.0	797.5	836.5
39.5°	617.6	804.0	903.8	945.0	758.5	909.4	936.5	834.8	678.6	759.7	814.0
40°	579.8	766.0	877.4	905.0	717.8	868.7	910.1	796.1	637.9	723.2	791.0
40.5°	542.2	728.0	855.1	863.4	678.1	829.5	885.2	758.5	598.2	687.3	767.2
41°	507.1	690.2	832.9	825.4	638.4	790.0	863.6	721.2	559.2	650.3	752.0
41.5°	473.0	652.4	810.6	787.1	598.9	752.7	841.8	684.4	521.4	614.2	731.1
42°	439.1	615.1	788.3	749.1	559.9	715.4	817.6	647.8	485.3	577.8	706.4
42.5°	405.4	577.8	766.0	711.0	521.7	679.6	799.4	611.0	451.2	542.2	682.2
43°	373.4	543.0	744.0	675.0	485.8	642.0	784.2	574.0	417.5	507.4	650.5
43.5°	342.7	509.6	720.7	638.9	450.9	604.7	760.5	537.2	385.3	473.5	618.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	258.9	411.7	643.0	531.3	353.8	498.4	686.1	437.1	295.2	379.5	520.2
45.5°	233.0	380.7	614.7	497.2	323.8	464.5	656.3	406.4	267.4	349.5	487.3
46°	208.5	350.4	584.4	463.8	295.0	432.1	624.8	375.4	244.1	320.4	455.3
46.5°	185.3	321.1	554.1	432.1	266.6	401.3	591.9	345.8	220.9	292.6	424.1
47°	163.0	292.8	523.1	401.1	243.2	370.1	556.8	317.3	197.6	266.9	394.0
47.5°	141.9	265.9	491.9	371.5	219.4	340.5	522.4	289.6	174.4	243.9	364.0
48°	122.8	239.8	459.4	342.7	195.9	311.7	489.4	263.0	151.4	220.9	335.9
48.5°	105.8	216.0	427.2	314.4	172.4	284.3	457.5	240.5	132.5	197.9	308.5
49°	90.8	192.3	395.2	286.7	148.9	256.7	426.5	218.0	115.3	175.1	282.1
49.5°	80.9	170.0	365.9	260.6	130.1	233.2	396.2	195.4	99.3	152.1	256.7
50°	71.4	148.9	336.6	235.9	112.6	209.5	367.6	172.9	84.5	133.4	234.4
50.5°	61.8	130.1	309.8	212.4	96.4	186.0	340.0	150.4	71.7	115.5	212.2
51°	52.1	112.1	282.6	189.1	81.6	162.5	313.6	130.8	59.3	99.5	189.9
51.5°	42.6	96.1	257.9	167.6	68.5	142.4	286.7	113.8	48.7	84.0	167.3
52°	35.4	81.9	233.5	147.7	56.4	123.5	260.6	97.1	40.7	70.5	148.7
52.5°	28.6	72.2	211.2	129.1	45.3	105.8	238.1	82.6	32.7	57.9	130.8
53°	21.8	62.5	189.4	111.4	37.8	89.8	215.5	68.3	24.7	47.2	114.3
53.5°	15.3	52.8	168.3	95.4	30.3	75.1	192.8	56.4	16.5	39.2	99.1
54°	10.4	43.1	148.5	80.4	22.5	62.2	170.3	45.3	8.7	31.2	85.5
54.5°	9.2	36.1	131.0	68.5	15.0	50.4	147.7	37.8	8.0	23.2	72.9
55°	8.5	29.1	114.1	56.7	7.7	41.9	130.1	30.0	7.5	15.5	61.5
55.5°	7.5	22.5	99.1	44.8	7.3	33.4	112.4	22.5	7.3	8.0	51.6
56°	6.8	16.0	85.2	33.2	7.0	25.2	96.4	14.8	7.0	7.3	42.9
56.5°	6.5	10.7	75.1	24.0	6.8	17.0	81.6	7.3	6.8	7.0	35.4
57°	6.3	9.7	64.9	16.0	6.5	8.5	68.5	6.8	6.5	6.8	30.8
57.5°	6.1	8.7	55.0	9.4	6.3	7.0	56.4	6.8	6.3	6.5	26.2
58°	5.8	7.7	44.8	8.5	6.1	6.8	46.0	6.5	6.3	6.3	21.6
58.5°	5.6	7.0	34.6	7.5	5.8	6.5	37.1	6.3	6.1	6.1	17.2
59°	5.6	6.1	28.1	6.8	5.6	6.3	32.0	6.1	5.8	5.8	12.6
59.5°	5.3	5.8	22.8	5.8	5.6	6.1	26.9	5.8	5.6	5.8	10.2
60°	5.1	5.6	18.4	5.6	5.3	5.8	21.8	5.6	5.3	5.6	8.5
60.5°	4.8	5.6	15.0	5.6	5.1	5.6	17.0	5.6	5.3	5.3	7.0
61°	4.8	5.3	12.1	5.3	4.8	5.6	11.9	5.3	5.1	5.1	6.1
61.5°	4.6	5.1	9.9	5.1	4.8	5.3	9.7	5.1	4.8	5.1	5.3
62°	4.6	5.1	9.0	5.1	4.6	5.1	8.0	5.1	4.6	4.8	5.1
62.5°	4.4	4.8	8.0	4.8	4.4	5.1	6.8	4.8	4.6	4.6	4.8
63°	4.1	4.6	6.8	4.6	4.4	4.8	5.8	4.6	4.4	4.6	4.6
63.5°	4.1	4.6	5.8	4.6	4.1	4.6	5.3	4.6	4.4	4.4	4.4
64°	3.9	4.4	4.8	4.4	4.1	4.6	4.8	4.4	4.1	4.1	4.4
64.5°	3.9	4.1	4.6	4.4	3.9	4.4	4.8	4.4	3.9	4.1	4.1
65°	3.6	4.1	4.6	4.1	3.6	4.1	4.6	4.1	3.9	3.9	4.1
65.5°	3.6	3.9	4.4	3.9	3.6	4.1	4.4	3.9	3.6	3.9	3.9
66°	3.4	3.9	4.1	3.9	3.4	3.9	4.4	3.9	3.6	3.6	3.9



TEST NUMBER: P776100

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	3.1	3.4	3.9	3.4	3.1	3.6	3.9	3.4	3.1	3.4	3.4
68°	2.9	3.4	3.6	3.4	2.9	3.4	3.6	3.4	3.1	3.1	3.1
68.5°	2.9	3.1	3.6	3.1	2.9	3.1	3.6	3.1	2.9	2.9	3.1
69°	2.7	3.1	3.4	3.1	2.7	3.1	3.4	3.1	2.9	2.9	2.9
69.5°	2.7	2.9	3.4	3.1	2.7	2.9	3.4	2.9	2.7	2.7	2.9
70°	2.4	2.9	3.1	2.9	2.7	2.9	3.1	2.9	2.7	2.7	2.7
70.5°	2.4	2.7	3.1	2.9	2.4	2.9	3.1	2.7	2.4	2.7	2.7
71°	2.4	2.7	2.9	2.7	2.4	2.7	2.9	2.7	2.4	2.4	2.4
71.5°	2.2	2.4	2.9	2.7	2.2	2.7	2.9	2.4	2.2	2.4	2.4
72°	2.2	2.4	2.7	2.4	2.2	2.4	2.7	2.4	2.2	2.2	2.2
72.5°	1.9	2.2	2.7	2.4	2.2	2.4	2.7	2.4	2.2	2.2	2.2
73°	1.9	2.2	2.4	2.4	1.9	2.2	2.4	2.2	1.9	1.9	2.2
73.5°	1.9	2.2	2.4	2.2	1.9	2.2	2.4	2.2	1.9	1.9	1.9
74°	1.7	1.9	2.2	2.2	1.9	2.2	2.2	1.9	1.9	1.9	1.9
74.5°	1.7	1.9	2.2	1.9	1.7	1.9	2.2	1.9	1.7	1.7	1.7
75°	1.7	1.7	1.9	1.9	1.7	1.9	2.2	1.9	1.7	1.7	1.7
75.5°	1.5	1.7	1.9	1.9	1.7	1.9	1.9	1.7	1.7	1.7	1.5
76°	1.5	1.7	1.9	1.7	1.7	1.7	1.9	1.7	1.5	1.5	1.5
76.5°	1.5	1.5	1.7	1.7	1.5	1.7	1.7	1.7	1.5	1.5	1.5
77°	1.5	1.5	1.7	1.7	1.5	1.7	1.7	1.5	1.5	1.5	1.2
77.5°	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2
78°	1.2	1.2	1.5	1.5	1.2	1.5	1.5	1.2	1.2	1.2	1.0
78.5°	1.2	1.2	1.2	1.5	1.2	1.5	1.5	1.2	1.2	1.2	1.0
79°	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0
79.5°	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	0.7
80°	1.0	1.0	1.0	1.2	1.0	1.2	1.2	1.0	1.0	1.0	0.7
80.5°	1.0	1.0	1.0	1.0	1.0	1.2	1.0	1.0	1.0	0.7	0.7
81°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7
81.5°	0.7	0.7	0.7	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.5
82°	0.7	0.7	0.7	1.0	0.7	1.0	0.7	0.7	0.7	0.5	0.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5
83°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5
83.5°	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.2	0.5
84°	0.5	0.5	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.2	0.2
84.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.2	0.2
85°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
85.5°	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
86°	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.0	0.2
86.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
87°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776100
CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQC-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: P776100

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2510.2	2510.2	2510.2	2510.2	2510.2	2510.2
0.5°	2507.8	2506.6	2507.8	2509.0	2511.4	2510.5
1°	2504.9	2504.9	2505.6	2506.3	2509.5	2509.0
1.5°	2502.0	2502.2	2502.7	2503.4	2507.5	2506.6
2°	2498.3	2499.1	2498.8	2499.8	2504.9	2503.9
2.5°	2494.2	2495.2	2495.0	2495.2	2500.5	2500.0
3°	2489.6	2491.1	2490.4	2490.4	2496.7	2496.4
3.5°	2485.3	2486.2	2485.0	2485.0	2491.3	2491.3
4°	2480.7	2482.4	2479.9	2479.2	2485.8	2486.2
4.5°	2476.3	2478.2	2474.9	2472.4	2480.2	2481.4
5°	2471.5	2473.9	2470.0	2465.7	2474.6	2477.3
5.5°	2466.1	2469.8	2464.7	2459.4	2469.3	2472.7
6°	2460.3	2465.2	2459.1	2453.3	2464.0	2467.8
6.5°	2454.8	2460.1	2453.3	2447.5	2458.1	2462.7
7°	2448.2	2454.5	2447.2	2441.7	2452.1	2458.1
7.5°	2441.4	2448.5	2440.2	2435.4	2445.5	2451.8
8°	2433.9	2441.7	2432.7	2428.6	2439.0	2446.3
8.5°	2425.4	2433.7	2424.7	2421.8	2431.7	2439.0
9°	2415.8	2424.0	2416.0	2414.6	2424.0	2430.8
9.5°	2405.8	2414.1	2406.6	2407.5	2415.3	2421.8
10°	2394.7	2403.7	2396.1	2399.5	2406.6	2412.6
10.5°	2382.3	2390.8	2384.5	2391.3	2397.1	2402.7
11°	2369.3	2377.5	2372.4	2382.6	2386.9	2390.8
11.5°	2355.2	2362.2	2359.3	2372.9	2376.0	2377.3
12°	2340.0	2345.8	2344.6	2362.5	2363.9	2363.0
12.5°	2323.5	2328.1	2328.8	2350.9	2350.1	2347.2
13°	2306.1	2309.9	2311.6	2339.0	2335.6	2329.8
13.5°	2287.6	2290.1	2293.9	2326.2	2320.1	2310.9
14°	2268.5	2269.0	2275.3	2312.3	2303.1	2291.5
14.5°	2248.9	2247.2	2255.7	2297.3	2285.7	2271.2
15°	2228.1	2224.4	2234.9	2280.6	2266.3	2249.4
15.5°	2206.8	2200.9	2213.1	2262.9	2246.5	2226.4
16°	2184.2	2176.7	2190.8	2243.8	2225.6	2202.9
16.5°	2161.2	2151.1	2167.8	2223.7	2204.1	2178.4
17°	2137.7	2125.4	2144.8	2202.6	2182.1	2154.0
17.5°	2113.8	2099.0	2120.3	2179.6	2158.3	2127.6
18°	2088.6	2072.6	2094.9	2156.4	2134.6	2101.9
18.5°	2064.6	2044.5	2069.2	2131.9	2110.1	2075.3
19°	2038.2	2015.7	2043.5	2106.5	2085.2	2047.4
19.5°	2012.0	1986.4	2016.9	2080.1	2059.5	2018.1
20°	1984.0	1956.6	1990.0	2053.0	2033.1	1988.1
20.5°	1956.8	1925.6	1960.7	2023.2	2006.5	1958.0
21°	1928.2	1895.6	1932.6	1995.6	1978.1	1926.8

TEST NUMBER: P776100

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1842.0	1804.3	1843.5	1904.5	1889.3	1839.1
23°	1813.2	1773.0	1814.4	1875.2	1858.7	1808.4
23.5°	1784.2	1741.5	1785.4	1843.0	1829.4	1776.4
24°	1755.1	1708.8	1753.6	1810.8	1801.1	1745.4
24.5°	1726.0	1675.9	1721.9	1776.9	1771.8	1713.7
25°	1693.8	1642.5	1690.2	1745.4	1739.6	1681.5
25.5°	1660.9	1609.1	1657.5	1711.5	1708.1	1648.5
26°	1628.2	1574.4	1624.8	1676.9	1675.7	1615.1
26.5°	1595.5	1540.5	1592.1	1640.1	1644.2	1581.4
27°	1561.8	1504.9	1559.4	1606.9	1610.3	1547.5
27.5°	1527.7	1469.1	1524.8	1571.5	1577.3	1512.4
28°	1493.8	1433.0	1490.6	1535.4	1543.2	1477.1
28.5°	1459.1	1396.7	1456.7	1500.6	1509.5	1441.2
29°	1424.0	1360.1	1421.8	1466.2	1475.1	1405.6
29.5°	1388.7	1324.7	1387.0	1432.7	1441.9	1369.8
30°	1353.6	1290.8	1351.6	1398.6	1406.8	1333.7
30.5°	1318.9	1257.9	1316.7	1364.0	1372.2	1300.3
31°	1284.0	1222.3	1282.1	1328.4	1337.1	1267.3
31.5°	1251.6	1191.5	1247.7	1292.3	1302.9	1231.7
32°	1219.1	1163.7	1215.8	1256.2	1268.1	1200.5
32.5°	1185.2	1127.1	1183.8	1220.4	1233.7	1174.1
33°	1155.7	1092.2	1149.2	1185.0	1202.4	1143.6
33.5°	1128.3	1049.6	1121.5	1148.7	1169.7	1105.8
34°	1093.2	1006.0	1093.4	1112.8	1136.6	1068.5
34.5°	1060.8	963.9	1057.4	1077.2	1109.7	1025.9
35°	1020.8	922.2	1023.2	1042.3	1082.8	983.5
35.5°	980.6	882.8	982.5	1008.2	1049.1	941.8
36°	940.9	841.6	942.6	975.5	1016.4	901.4
36.5°	902.1	800.2	904.1	942.6	978.4	856.8
37°	863.6	758.8	864.6	911.6	938.9	816.9
37.5°	825.8	717.6	827.3	881.5	899.0	777.2
38°	788.1	676.2	789.8	855.6	856.6	737.2
38.5°	749.3	635.7	752.5	829.7	821.5	697.5
39°	710.1	596.3	715.2	803.8	786.1	656.8
39.5°	671.1	559.2	677.4	777.9	751.0	617.6
40°	632.6	523.4	638.6	752.0	715.6	579.8
40.5°	596.0	489.0	601.8	730.4	677.9	542.2
41°	560.4	454.1	565.3	711.8	640.6	507.1
41.5°	526.0	420.7	531.6	691.2	603.3	473.0
42°	492.4	387.0	498.2	672.3	567.7	439.1
42.5°	459.4	357.2	466.7	652.4	533.8	405.4
43°	427.2	327.4	435.0	622.2	501.1	373.4
43.5°	396.2	299.1	403.7	593.6	468.9	342.7



TEST NUMBER: P776100

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	307.8	221.4	315.8	497.9	377.3	258.9
45.5°	280.2	197.6	288.4	468.9	347.8	233.0
46°	254.0	175.1	262.8	439.8	319.7	208.5
46.5°	230.8	153.3	238.3	411.0	292.3	185.3
47°	207.5	133.4	214.8	382.2	266.4	163.0
47.5°	184.5	115.0	191.6	355.8	241.7	141.9
48°	161.3	99.1	170.3	328.6	217.7	122.8
48.5°	141.2	85.0	150.4	302.7	194.5	105.8
49°	122.3	75.8	131.5	278.0	173.4	90.8
49.5°	105.1	66.6	114.3	254.3	152.8	80.9
50°	90.3	57.4	98.3	231.5	133.4	71.4
50.5°	77.3	48.2	84.0	210.2	115.3	61.8
51°	65.9	39.2	74.6	190.4	99.8	52.1
51.5°	55.9	32.2	65.1	171.5	85.7	42.6
52°	47.5	25.4	55.7	153.5	76.0	35.4
52.5°	40.0	18.9	46.0	137.1	66.4	28.6
53°	33.7	12.6	36.8	121.1	56.9	21.8
53.5°	27.4	8.2	29.8	106.3	47.2	15.3
54°	21.1	7.5	23.0	92.8	37.8	10.4
54.5°	14.8	7.0	16.7	80.4	30.8	9.2
55°	8.7	6.5	10.9	69.0	24.0	8.5
55.5°	6.5	6.1	9.7	60.8	17.4	7.5
56°	6.3	5.8	8.7	52.6	11.6	6.8
56.5°	6.1	5.6	7.5	44.6	7.5	6.5
57°	5.8	5.3	6.3	36.3	7.0	6.3
57.5°	5.6	5.1	5.1	28.1	6.8	6.1
58°	5.3	5.1	5.1	22.5	6.3	5.8
58.5°	5.3	4.8	4.8	17.9	5.8	5.6
59°	5.1	4.6	4.8	14.3	5.6	5.6
59.5°	4.8	4.6	4.6	11.6	5.6	5.3
60°	4.8	4.4	4.4	9.2	5.3	5.1
60.5°	4.6	4.1	4.4	8.2	5.1	4.8
61°	4.4	4.1	4.1	7.0	5.1	4.8
61.5°	4.4	3.9	4.1	5.8	4.8	4.6
62°	4.1	3.9	3.9	4.6	4.6	4.6
62.5°	4.1	3.6	3.9	4.4	4.6	4.4
63°	3.9	3.6	3.6	4.4	4.4	4.1
63.5°	3.6	3.4	3.6	4.1	4.4	4.1
64°	3.6	3.4	3.4	4.1	4.1	3.9
64.5°	3.4	3.1	3.4	3.9	3.9	3.9
65°	3.4	3.1	3.1	3.9	3.9	3.6
65.5°	3.1	2.9	3.1	3.6	3.6	3.6
66°	3.1	2.9	2.9	3.6	3.6	3.4



TEST NUMBER: P776100

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.9	2.4	2.7	3.1	3.1	3.1
68°	2.7	2.4	2.7	3.1	3.1	2.9
68.5°	2.7	2.4	2.4	2.9	2.9	2.9
69°	2.4	2.2	2.4	2.9	2.9	2.7
69.5°	2.4	2.2	2.4	2.7	2.9	2.7
70°	2.2	1.9	2.2	2.7	2.7	2.4
70.5°	2.2	1.9	2.2	2.7	2.7	2.4
71°	2.2	1.9	1.9	2.4	2.4	2.4
71.5°	1.9	1.7	1.9	2.4	2.4	2.2
72°	1.9	1.7	1.9	2.2	2.2	2.2
72.5°	1.7	1.7	1.7	2.2	2.2	1.9
73°	1.7	1.7	1.7	1.9	2.2	1.9
73.5°	1.7	1.5	1.7	1.9	1.9	1.9
74°	1.5	1.5	1.7	1.9	1.9	1.7
74.5°	1.5	1.5	1.5	1.7	1.9	1.7
75°	1.5	1.5	1.5	1.7	1.7	1.7
75.5°	1.5	1.2	1.5	1.5	1.7	1.5
76°	1.2	1.2	1.2	1.5	1.5	1.5
76.5°	1.2	1.2	1.2	1.5	1.5	1.5
77°	1.2	1.2	1.2	1.2	1.5	1.5
77.5°	1.0	1.0	1.2	1.2	1.2	1.2
78°	1.0	1.0	1.0	1.2	1.2	1.2
78.5°	1.0	1.0	1.0	1.0	1.2	1.2
79°	1.0	1.0	1.0	1.0	1.2	1.0
79.5°	0.7	0.7	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	1.0	1.0
80.5°	0.7	0.7	0.7	0.7	1.0	1.0
81°	0.7	0.7	0.7	0.7	0.7	0.7
81.5°	0.5	0.7	0.7	0.7	0.7	0.7
82°	0.5	0.5	0.5	0.5	0.7	0.7
82.5°	0.5	0.5	0.5	0.5	0.5	0.7
83°	0.5	0.5	0.5	0.5	0.5	0.5
83.5°	0.5	0.5	0.5	0.5	0.5	0.5
84°	0.2	0.5	0.5	0.2	0.5	0.5
84.5°	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.2
85.5°	0.2	0.2	0.2	0.2	0.2	0.2
86°	0.2	0.2	0.2	0.2	0.2	0.2
86.5°	0.0	0.2	0.2	0.2	0.2	0.2
87°	0.0	0.0	0.0	0.0	0.0	0.2
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: P776100

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQC-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
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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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21.5°	1897.3	1982.3	2061.9	2037.2	1956.6	2021.0	2084.5	2004.5	1938.9	1947.1	1977.2
22°	1868.2	1953.4	2034.8	2011.8	1928.7	1995.1	2057.6	1978.6	1911.8	1917.8	1947.1



44°	313.1	476.9	701.4	603.0	416.8	568.4	739.1	502.5	354.3	441.0	586.1
44.5°	285.3	443.7	672.3	566.7	385.3	533.8	714.2	469.6	324.0	409.8	553.1



66.5°	3.4	3.6	4.1	3.6	3.4	3.9	4.1	3.6	3.4	3.6	3.6
67°	3.1	3.6	3.9	3.6	3.1	3.6	4.1	3.6	3.4	3.4	3.4



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°	1899.4	1866.3	1902.8	1966.3	1949.1	1897.3
22°	1871.1	1836.2	1873.8	1936.5	1918.6	1868.2

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44°	365.7	271.2	372.7	562.1	438.3	313.1
44.5°	335.4	246.1	343.9	530.1	407.3	285.3



66.5°	3.1	2.7	2.9	3.4	3.4	3.4
67°	2.9	2.7	2.9	3.4	3.4	3.1

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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)