

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: P776078

Luminaire Tested: HCDJBL51525CSD-HCD6TRC-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776078
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: HCDJBLS1525CSD-HCD6TRC-2500lm-4000K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

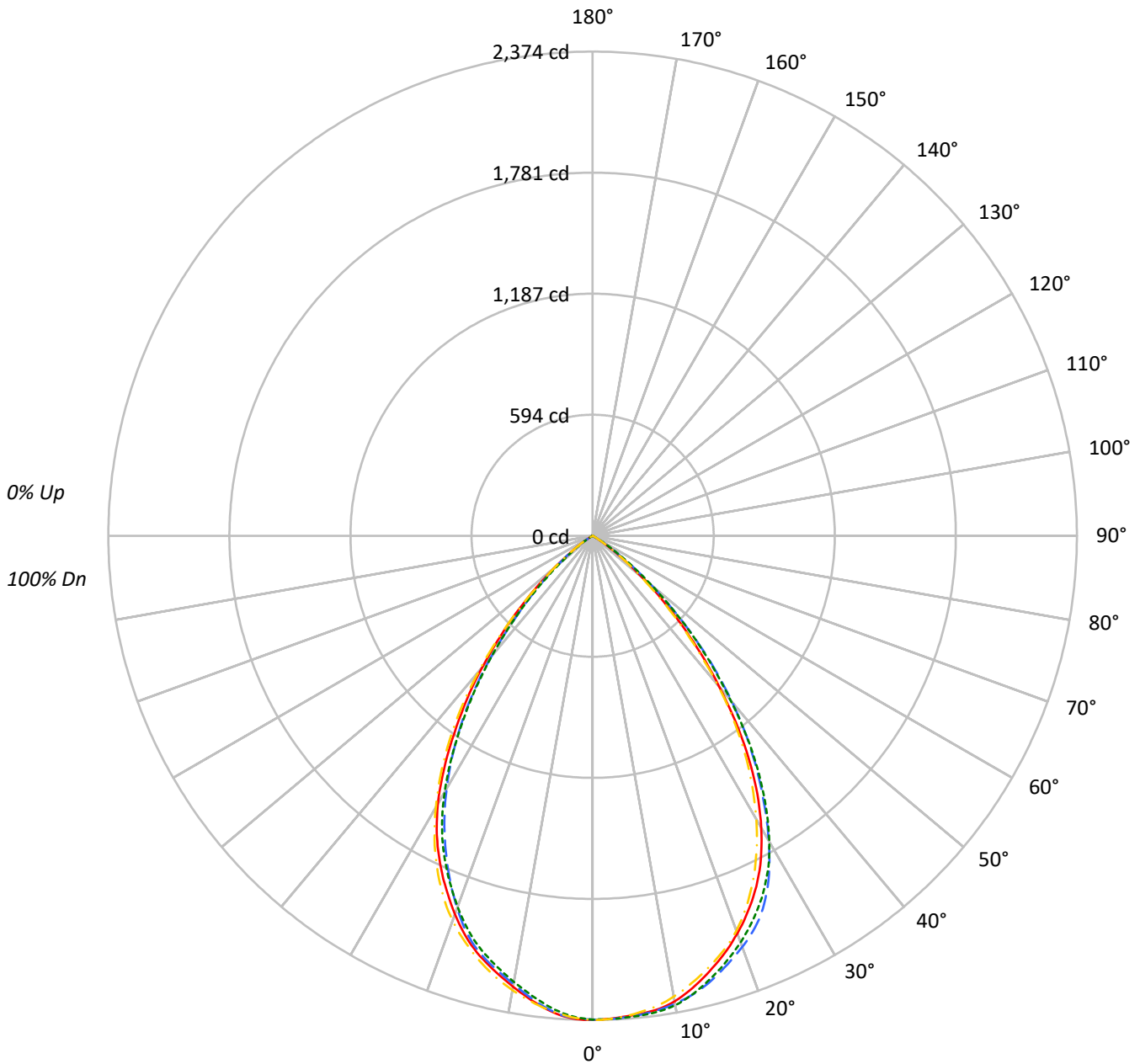
Lumens per Lamp: N/A
Luminaire Lumens: 2998.6 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70	70	70	70
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64	64	64	64
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59	59	59	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	130061	130061	130061	130061
5°	129804	130183	128808	127845
10°	129011	130086	124987	123628
15°	125512	127430	121051	119348
20°	121017	123747	115137	112885
25°	114781	118567	107117	104268
30°	104624	109567	95977	91907
35°	89382	94964	79183	74211
40°	69094	75262	60184	55075
45°	47749	54044	39903	35143
50°	27035	32349	20724	17159
55°	10160	13591	8239	6470
60°	724	2346	340	395
65°	104	130	104	65
70°	48	48	48	48
75°	0	64	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 55897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	7.4
10°-20°	611.4	20.4
20°-30°	840.1	28.0
30°-40°	781.0	26.0
40°-50°	441.0	14.7
50°-60°	101.8	3.4
60°-70°	1.3	0.0
70°-80°	0.1	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°	1673.4	55.8
0°-40°	2454.4	81.9
0°-60°	2997.1	100.0
0°-90°	2998.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2372	2372	2372	2372	2372	
5°	2359	2366	2341	2323	2359	224
15°	2212	2245	2133	2103	2212	622
25°	1898	1960	1771	1724	1898	867
35°	1336	1419	1183	1109	1336	824
45°	616	697	515	453	616	476
55°	106	142	86	68	106	110
65°	1	1	1	0	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776078

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRC-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5
0.5°	2373.3	2372.0	2372.0	2373.1	2371.8	2373.1	2374.1	2374.6	2373.8	2372.0	2371.0
1°	2372.3	2372.0	2372.0	2373.1	2372.0	2373.3	2373.8	2374.1	2373.6	2372.0	2370.5
1.5°	2370.8	2370.8	2371.5	2373.1	2371.5	2373.3	2372.5	2373.1	2372.3	2370.8	2369.0
2°	2369.5	2370.0	2371.0	2373.1	2371.3	2373.1	2371.0	2371.0	2370.8	2369.5	2366.9
2.5°	2368.0	2369.2	2370.5	2372.3	2370.8	2371.8	2369.0	2368.5	2368.0	2366.9	2364.4
3°	2365.9	2368.0	2369.2	2371.3	2370.0	2370.5	2366.4	2365.2	2364.1	2363.9	2361.1
3.5°	2364.1	2366.7	2368.0	2370.5	2369.2	2369.0	2363.6	2361.1	2359.3	2359.3	2356.5
4°	2362.6	2365.4	2366.7	2369.2	2368.0	2367.5	2360.6	2356.3	2354.2	2353.7	2351.2
4.5°	2360.6	2363.6	2365.2	2368.0	2366.9	2365.9	2356.8	2350.9	2347.9	2347.4	2344.3
5°	2358.8	2362.1	2363.4	2366.2	2365.7	2364.1	2353.2	2345.1	2340.7	2340.2	2336.7
5.5°	2357.3	2360.1	2361.3	2364.4	2364.4	2362.4	2348.9	2338.5	2332.9	2331.8	2328.3
6°	2354.7	2357.8	2358.8	2362.6	2363.4	2360.3	2344.6	2331.8	2325.0	2323.4	2318.9
6.5°	2352.4	2355.0	2356.3	2360.3	2361.3	2358.5	2340.0	2324.5	2315.8	2313.8	2309.5
7°	2349.4	2352.2	2353.2	2358.0	2359.6	2356.0	2335.4	2317.1	2306.7	2304.4	2299.0
7.5°	2345.8	2348.6	2350.2	2355.2	2357.5	2353.7	2329.8	2309.5	2297.0	2294.2	2288.3
8°	2342.0	2344.6	2346.6	2352.4	2354.7	2350.9	2323.7	2300.8	2287.1	2283.8	2277.1
8.5°	2337.4	2340.0	2342.8	2348.6	2351.2	2347.1	2317.3	2292.4	2276.6	2272.8	2266.2
9°	2331.6	2334.9	2338.7	2345.3	2346.8	2343.0	2310.5	2283.8	2266.7	2262.6	2255.0
9.5°	2325.0	2328.8	2334.4	2341.0	2342.0	2337.9	2302.6	2275.4	2256.0	2252.0	2244.1
10°	2317.6	2322.7	2329.5	2336.4	2336.9	2331.8	2294.2	2266.2	2245.3	2240.8	2233.1
10.5°	2309.5	2315.6	2324.7	2331.1	2330.3	2325.0	2285.8	2256.5	2234.4	2229.8	2221.7
11°	2300.0	2307.7	2318.9	2325.5	2322.9	2317.1	2276.9	2246.9	2223.5	2218.6	2210.5
11.5°	2290.9	2299.0	2313.3	2319.6	2315.0	2308.2	2267.0	2237.7	2212.8	2207.4	2199.5
12°	2280.4	2290.4	2306.4	2313.3	2306.1	2298.5	2257.0	2227.8	2202.1	2196.0	2189.1
12.5°	2269.8	2281.0	2299.8	2306.1	2297.2	2288.1	2246.4	2217.4	2190.9	2183.8	2178.4
13°	2258.6	2271.3	2291.9	2299.0	2287.6	2277.7	2236.7	2206.7	2180.0	2171.8	2168.0
13.5°	2247.6	2260.9	2284.3	2291.6	2277.4	2266.7	2225.5	2195.7	2168.5	2158.8	2156.8
14°	2235.4	2250.4	2275.6	2283.8	2267.0	2255.0	2215.3	2184.3	2157.1	2145.6	2145.6
14.5°	2224.0	2240.3	2266.2	2275.4	2256.0	2243.1	2203.9	2171.8	2145.4	2131.6	2133.7
15°	2211.5	2229.1	2256.0	2267.0	2245.3	2230.8	2192.9	2159.4	2132.9	2117.9	2121.4
15.5°	2199.3	2217.9	2245.9	2257.3	2234.1	2218.9	2181.2	2146.6	2120.4	2103.1	2108.5
16°	2186.8	2206.7	2235.2	2247.6	2222.4	2206.9	2170.3	2132.4	2107.2	2088.1	2094.7
16.5°	2174.1	2195.2	2224.0	2237.2	2211.0	2194.7	2158.1	2118.1	2093.0	2073.1	2079.2
17°	2160.6	2183.5	2213.0	2227.0	2198.8	2182.3	2145.9	2104.1	2077.9	2056.8	2062.9
17.5°	2147.9	2171.8	2201.8	2215.8	2186.3	2169.8	2133.7	2088.9	2062.2	2039.5	2045.4
18°	2133.9	2160.1	2190.6	2205.1	2173.6	2156.8	2120.2	2073.9	2046.4	2023.2	2026.6
18.5°	2119.9	2148.4	2179.5	2194.0	2161.1	2144.1	2106.9	2057.6	2028.8	2005.7	2006.5
19°	2104.9	2136.2	2168.3	2182.5	2147.9	2131.4	2092.4	2041.8	2011.3	1988.1	1985.9
19.5°	2089.6	2123.5	2156.8	2170.5	2134.9	2117.6	2076.7	2025.5	1992.7	1969.3	1964.7
20°	2074.4	2110.5	2144.9	2157.6	2121.2	2103.9	2060.6	2008.2	1973.6	1951.3	1942.9
20.5°	2058.4	2096.8	2133.2	2144.6	2106.4	2088.6	2043.6	1990.2	1954.3	1932.2	1920.0
21°	2042.6	2082.5	2120.7	2131.1	2091.9	2073.1	2026.0	1972.6	1935.0	1912.6	1897.1



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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°	1991.4	2035.7	2079.7	2086.3	2046.1	2023.2	1968.6	1916.9	1875.2	1853.6	1828.1
23°	1974.2	2018.4	2064.0	2069.3	2029.4	2004.9	1948.2	1897.3	1855.3	1833.7	1803.7
23.5°	1955.6	2000.6	2047.9	2052.3	2013.1	1986.9	1926.8	1878.0	1835.5	1811.6	1778.8
24°	1936.8	1982.0	2029.6	2033.7	1996.0	1967.5	1905.5	1858.7	1814.1	1789.5	1753.8
24.5°	1917.2	1963.2	2010.5	2013.8	1978.2	1947.9	1884.1	1839.3	1792.5	1767.1	1728.7
25°	1897.6	1943.4	1990.4	1994.0	1960.2	1928.1	1862.5	1818.2	1770.9	1743.9	1703.7
25.5°	1877.0	1922.0	1969.1	1972.9	1941.3	1907.0	1841.1	1796.6	1748.2	1720.5	1678.3
26°	1855.1	1900.4	1946.2	1950.7	1920.5	1885.9	1815.1	1773.9	1725.3	1697.4	1652.8
26.5°	1833.0	1878.5	1922.8	1927.8	1899.6	1864.8	1790.5	1750.5	1701.9	1672.7	1627.4
27°	1810.1	1855.1	1897.8	1903.9	1878.7	1843.9	1766.3	1727.1	1677.5	1648.0	1601.5
27.5°	1786.1	1829.9	1872.1	1879.5	1857.9	1821.8	1740.1	1702.5	1653.1	1622.3	1574.2
28°	1760.5	1804.5	1844.2	1853.6	1836.8	1796.8	1714.7	1676.8	1628.2	1595.3	1547.0
28.5°	1735.5	1777.8	1816.4	1827.1	1811.8	1773.2	1687.7	1650.0	1601.5	1567.1	1518.3
29°	1708.6	1750.0	1786.9	1799.1	1785.9	1746.7	1660.7	1623.1	1574.0	1538.6	1490.3
29.5°	1680.8	1723.1	1757.7	1770.9	1758.7	1721.0	1632.5	1594.8	1545.0	1509.6	1460.3
30°	1652.8	1693.0	1726.9	1741.9	1730.9	1694.1	1604.8	1566.3	1516.2	1479.8	1430.2
30.5°	1624.3	1664.5	1696.6	1713.1	1702.5	1666.8	1575.8	1536.6	1485.7	1449.3	1400.0
31°	1594.6	1634.8	1664.8	1681.8	1673.7	1638.1	1546.2	1506.1	1454.7	1418.3	1370.2
31.5°	1563.5	1604.3	1633.0	1651.3	1643.7	1609.8	1516.5	1475.5	1422.9	1386.7	1339.7
32°	1533.5	1572.7	1600.7	1619.0	1613.2	1580.3	1487.0	1444.5	1389.8	1354.9	1309.4
32.5°	1502.5	1541.2	1568.6	1587.0	1582.4	1551.1	1456.2	1412.4	1356.2	1321.4	1278.4
33°	1470.9	1509.4	1535.1	1554.4	1550.8	1519.3	1425.7	1379.9	1322.4	1287.5	1247.8
33.5°	1437.9	1477.1	1503.8	1522.1	1519.3	1488.2	1394.6	1347.1	1288.0	1253.9	1217.3
34°	1405.6	1443.5	1470.4	1488.8	1485.7	1456.2	1363.8	1313.5	1253.2	1219.1	1186.0
34.5°	1371.0	1410.1	1437.9	1456.2	1452.6	1423.6	1332.0	1280.4	1217.6	1185.3	1154.0
35°	1335.6	1375.0	1404.8	1422.9	1419.0	1389.5	1300.8	1246.3	1183.2	1150.9	1121.1
35.5°	1300.0	1340.4	1372.0	1389.8	1385.0	1356.2	1269.0	1212.5	1148.9	1116.1	1088.3
36°	1264.6	1305.6	1339.2	1356.7	1350.4	1321.4	1235.9	1178.1	1115.0	1082.2	1054.7
36.5°	1227.7	1270.0	1305.1	1323.1	1314.0	1286.5	1201.5	1144.0	1080.9	1047.6	1020.4
37°	1190.6	1235.4	1272.5	1289.0	1277.6	1251.7	1167.7	1110.2	1047.1	1013.5	985.0
37.5°	1152.4	1198.7	1239.4	1254.5	1240.7	1215.8	1132.6	1076.1	1013.5	979.4	950.4
38°	1114.5	1162.6	1205.1	1219.9	1203.6	1178.9	1097.7	1041.3	980.2	944.3	915.1
38.5°	1076.4	1126.2	1170.2	1184.0	1165.7	1142.0	1062.1	1006.9	946.6	910.2	880.5
39°	1038.0	1089.9	1135.1	1149.4	1128.0	1105.1	1025.5	972.3	911.5	875.6	845.1
39.5°	1001.8	1053.5	1100.3	1113.5	1089.6	1067.5	989.6	937.7	876.4	841.3	808.7
40°	965.5	1015.6	1064.2	1078.4	1051.7	1029.1	953.2	902.6	841.0	806.2	774.1
40.5°	929.8	978.4	1028.5	1042.0	1015.1	991.7	916.4	868.0	805.7	772.1	738.3
41°	894.5	941.5	992.2	1005.6	977.9	954.0	878.4	833.4	770.8	738.3	703.2
41.5°	859.1	900.3	956.3	968.8	942.0	916.6	840.8	798.6	736.0	704.2	668.3
42°	824.0	867.3	921.2	932.4	905.9	880.0	803.4	763.5	703.2	671.1	634.5
42.5°	788.6	834.2	885.1	896.0	871.8	843.3	767.3	729.1	671.9	638.3	602.9
43°	753.3	801.1	848.9	860.1	837.0	808.0	730.4	692.5	640.1	605.7	570.6
43.5°	718.2	768.0	812.8	837.5	801.4	772.4	694.3	657.9	609.0	574.2	540.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	615.9	665.5	705.2	721.0	697.1	666.5	592.8	556.6	514.7	483.9	453.1
45.5°	582.8	631.4	669.1	682.3	662.0	632.4	559.9	523.0	484.4	453.9	426.4
46°	551.5	597.8	632.9	648.0	628.4	598.6	527.1	491.0	454.4	425.6	399.7
46.5°	519.5	564.8	598.1	614.1	596.6	565.8	495.8	459.7	424.8	398.4	374.5
47°	487.7	533.0	563.8	580.0	563.5	533.7	464.3	428.4	395.8	371.7	349.8
47.5°	456.4	500.7	530.4	546.5	531.7	503.2	434.3	399.7	369.4	345.7	327.2
48°	427.1	469.1	497.4	513.4	500.9	472.9	405.3	369.9	341.7	320.8	304.3
48.5°	397.6	437.8	464.8	481.1	469.9	443.7	377.3	342.7	314.9	297.1	283.1
49°	370.2	408.3	433.8	449.8	438.6	415.4	349.8	316.0	288.7	274.5	262.3
49.5°	342.7	378.5	403.0	418.2	408.1	388.0	324.6	291.5	264.6	252.9	244.2
50°	317.0	349.3	374.2	388.7	379.3	361.0	299.2	267.6	243.0	233.8	226.2
50.5°	290.8	321.1	346.0	359.5	350.6	334.5	276.0	247.8	221.6	214.7	208.1
51°	266.9	293.6	318.3	331.2	323.6	309.4	253.9	228.2	200.2	195.9	190.0
51.5°	243.2	266.9	291.8	303.8	297.1	284.7	234.3	208.4	178.8	176.8	172.0
52°	220.1	242.2	266.4	277.3	271.7	261.0	214.7	188.5	161.5	159.8	155.9
52.5°	197.7	218.8	241.9	253.1	249.3	239.4	195.1	168.7	146.0	144.2	140.9
53°	177.1	196.9	218.8	229.0	227.2	217.8	175.5	152.4	132.3	129.7	126.4
53.5°	157.2	175.8	195.9	205.6	204.8	196.4	158.7	137.9	120.1	116.3	112.7
54°	138.4	156.7	175.3	183.9	182.7	174.8	142.5	123.9	107.9	103.3	99.0
54.5°	121.6	138.1	154.9	164.1	160.5	156.5	127.7	110.9	96.9	91.6	86.5
55°	106.3	121.3	136.6	145.3	142.2	139.2	113.0	98.7	86.2	80.1	74.3
55.5°	92.1	105.8	119.3	127.5	124.9	122.4	99.2	87.0	75.8	68.9	63.1
56°	80.6	90.8	102.8	110.7	109.1	107.4	86.5	75.8	65.9	58.8	52.4
56.5°	69.5	79.4	87.5	95.9	94.4	93.1	74.0	65.4	56.2	49.1	43.0
57°	58.0	67.9	76.1	84.2	80.6	79.9	62.6	55.2	47.1	40.4	35.4
57.5°	46.8	56.5	64.6	72.5	68.2	67.4	51.9	45.8	38.9	32.1	27.5
58°	35.4	45.0	53.2	61.1	56.5	56.0	42.7	37.7	30.5	23.7	19.6
58.5°	25.2	33.6	41.7	49.4	46.6	46.0	34.9	29.5	22.4	15.0	12.0
59°	15.5	23.7	31.5	37.9	38.2	37.7	27.0	21.4	14.2	6.6	4.1
59.5°	8.4	14.5	21.4	27.5	29.8	29.5	19.3	13.2	6.1	3.6	2.8
60°	6.6	7.6	12.7	17.6	21.4	21.1	11.4	5.1	3.1	2.5	2.3
60.5°	5.1	6.1	6.6	9.9	13.0	13.0	3.6	2.8	2.3	2.0	2.0
61°	3.3	4.8	5.3	7.9	4.8	4.6	2.3	2.0	2.0	1.8	1.8
61.5°	1.8	3.3	4.1	5.9	2.8	2.5	1.8	1.8	1.8	1.5	1.5
62°	1.5	2.0	3.1	4.1	2.0	2.0	1.5	1.5	1.5	1.5	1.3
62.5°	1.3	1.8	2.0	2.0	1.8	1.8	1.3	1.3	1.3	1.3	1.3
63°	1.3	1.5	1.8	1.8	1.5	1.5	1.3	1.3	1.0	1.0	1.0
63.5°	1.0	1.3	1.5	1.5	1.3	1.3	1.0	1.0	1.0	1.0	1.0
64°	0.8	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	0.8
64.5°	0.8	1.0	1.0	1.3	1.0	1.0	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8
65.5°	0.5	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.5
66°	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776078

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
69°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3
75.5°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	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: P776078
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776078

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5
0.5°	2371.0	2369.7	2370.5	2372.5	2373.3	2373.3
1°	2369.5	2368.0	2368.0	2371.0	2372.0	2372.3
1.5°	2367.5	2365.2	2364.9	2369.0	2370.0	2370.8
2°	2364.4	2361.6	2360.8	2365.9	2368.0	2369.5
2.5°	2360.8	2357.3	2356.3	2362.4	2365.4	2368.0
3°	2356.0	2352.2	2350.9	2358.3	2362.6	2365.9
3.5°	2350.7	2346.1	2345.1	2353.5	2359.6	2364.1
4°	2344.3	2339.2	2338.5	2348.9	2356.5	2362.6
4.5°	2336.9	2331.6	2331.3	2343.5	2353.2	2360.6
5°	2328.8	2323.2	2323.2	2337.9	2349.6	2358.8
5.5°	2319.4	2314.5	2315.0	2331.8	2346.1	2357.3
6°	2310.5	2305.1	2306.4	2325.5	2342.0	2354.7
6.5°	2300.3	2295.2	2297.5	2318.9	2337.2	2352.4
7°	2290.4	2285.0	2288.1	2312.0	2332.9	2349.4
7.5°	2279.9	2275.1	2278.7	2304.1	2327.3	2345.8
8°	2268.7	2264.2	2269.0	2296.7	2322.2	2342.0
8.5°	2257.8	2253.7	2259.1	2288.6	2315.3	2337.4
9°	2247.1	2242.8	2248.6	2280.2	2308.4	2331.6
9.5°	2236.2	2231.9	2238.0	2271.3	2300.8	2325.0
10°	2225.0	2220.9	2228.0	2262.6	2292.7	2317.6
10.5°	2213.5	2210.0	2217.9	2253.0	2284.0	2309.5
11°	2202.9	2199.0	2207.4	2243.8	2274.6	2300.0
11.5°	2190.9	2187.8	2196.5	2234.1	2264.9	2290.9
12°	2179.7	2176.1	2185.6	2223.7	2255.0	2280.4
12.5°	2167.7	2165.0	2174.6	2213.0	2244.6	2269.8
13°	2155.8	2153.0	2163.4	2202.1	2234.7	2258.6
13.5°	2142.6	2141.0	2151.5	2190.6	2224.0	2247.6
14°	2129.8	2128.3	2139.5	2178.9	2213.3	2235.4
14.5°	2116.4	2116.1	2127.0	2166.2	2202.9	2224.0
15°	2102.9	2102.9	2114.1	2153.8	2191.9	2211.5
15.5°	2088.4	2089.1	2101.1	2140.3	2180.2	2199.3
16°	2073.6	2074.9	2087.1	2127.6	2168.8	2186.8
16.5°	2058.1	2060.1	2072.3	2114.1	2156.8	2174.1
17°	2042.3	2044.4	2057.1	2100.1	2144.6	2160.6
17.5°	2024.8	2027.6	2040.8	2085.8	2131.6	2147.9
18°	2008.0	2010.3	2024.0	2071.3	2117.6	2133.9
18.5°	1989.4	1992.2	2006.5	2056.6	2102.6	2119.9
19°	1970.6	1973.9	1988.4	2040.8	2086.8	2104.9
19.5°	1951.3	1954.6	1970.1	2024.8	2070.6	2089.6
20°	1931.4	1935.0	1951.3	2008.2	2053.3	2074.4
20.5°	1910.5	1915.1	1931.7	1990.4	2035.7	2058.4
21°	1889.2	1895.0	1911.8	1972.9	2016.9	2042.6

TEST NUMBER: P776078

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1825.8	1832.7	1851.5	1913.1	1956.1	1991.4
23°	1803.4	1812.1	1831.4	1892.2	1934.0	1974.2
23.5°	1779.5	1790.7	1810.1	1870.9	1911.6	1955.6
24°	1755.9	1769.1	1788.9	1848.2	1889.7	1936.8
24.5°	1731.7	1746.2	1766.3	1826.3	1866.8	1917.2
25°	1707.8	1723.8	1744.4	1802.7	1843.1	1897.6
25.5°	1682.6	1700.7	1720.8	1779.0	1819.0	1877.0
26°	1656.9	1676.5	1697.9	1754.6	1794.8	1855.1
26.5°	1630.7	1651.6	1673.4	1730.4	1770.1	1833.0
27°	1604.0	1625.9	1647.8	1704.7	1745.2	1810.1
27.5°	1576.3	1599.2	1621.0	1678.3	1720.0	1786.1
28°	1548.3	1571.7	1593.6	1650.6	1692.8	1760.5
28.5°	1519.3	1542.7	1565.6	1623.1	1666.3	1735.5
29°	1490.0	1513.7	1536.3	1594.3	1638.6	1708.6
29.5°	1459.8	1482.9	1505.5	1566.6	1610.9	1680.8
30°	1429.2	1451.9	1475.0	1536.3	1581.6	1652.8
30.5°	1398.7	1419.3	1443.5	1507.1	1553.1	1624.3
31°	1367.4	1387.0	1410.9	1476.3	1523.6	1594.6
31.5°	1335.6	1353.2	1376.3	1445.8	1493.8	1563.5
32°	1303.8	1318.8	1342.5	1416.0	1462.8	1533.5
32.5°	1272.0	1283.7	1308.6	1384.2	1432.5	1502.5
33°	1238.7	1249.6	1274.0	1353.2	1400.7	1470.9
33.5°	1206.1	1214.5	1238.9	1320.6	1370.2	1437.9
34°	1172.0	1179.9	1204.8	1288.3	1338.7	1405.6
34.5°	1139.2	1143.5	1169.7	1255.5	1306.3	1371.0
35°	1106.1	1108.9	1135.4	1221.4	1272.5	1335.6
35.5°	1072.3	1074.3	1101.6	1188.1	1239.4	1300.0
36°	1038.7	1040.5	1067.0	1154.0	1204.8	1264.6
36.5°	1003.6	1007.4	1033.6	1119.9	1170.2	1227.7
37°	968.8	973.1	999.8	1084.0	1134.1	1190.6
37.5°	933.9	939.5	965.7	1048.4	1098.0	1152.4
38°	898.8	902.6	931.4	1012.8	1061.6	1114.5
38.5°	863.9	869.3	896.8	975.9	1024.7	1076.4
39°	828.3	836.0	861.9	940.8	987.3	1038.0
39.5°	793.7	802.6	827.1	901.3	949.9	1001.8
40°	759.6	769.6	792.2	866.7	910.2	965.5
40.5°	725.8	735.5	757.4	831.9	873.1	929.8
41°	692.5	701.6	722.5	797.3	836.0	894.5
41.5°	659.2	669.3	687.9	762.4	799.1	859.1
42°	625.8	637.3	654.8	726.8	761.9	824.0
42.5°	593.8	605.7	622.5	691.7	725.0	788.6
43°	561.5	574.2	589.7	656.4	689.9	753.3
43.5°	530.2	544.2	557.6	621.0	654.8	718.2



TEST NUMBER: P776078

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	441.6	453.3	463.0	517.2	554.8	615.9
45.5°	414.4	424.3	432.0	484.9	523.6	582.8
46°	387.2	395.3	402.2	453.6	493.3	551.5
46.5°	362.3	368.4	373.2	423.1	464.0	519.5
47°	337.6	341.4	345.5	394.6	435.0	487.7
47.5°	314.4	314.9	318.3	366.8	405.8	456.4
48°	291.5	289.5	292.1	339.4	378.5	427.1
48.5°	269.7	266.4	267.6	314.2	351.6	397.6
49°	249.3	243.2	244.2	289.8	325.9	370.2
49.5°	231.0	222.3	222.9	267.6	300.4	342.7
50°	212.9	201.2	201.7	245.8	276.8	317.0
50.5°	194.6	182.9	182.9	224.4	252.9	290.8
51°	176.3	165.1	165.4	204.3	231.0	266.9
51.5°	160.0	149.8	149.6	186.7	209.9	243.2
52°	144.5	135.3	135.6	169.2	190.5	220.1
52.5°	130.0	122.4	122.4	152.6	171.7	197.7
53°	116.0	109.6	109.9	136.9	154.2	177.1
53.5°	102.8	98.5	98.5	122.6	137.4	157.2
54°	90.3	87.8	87.3	108.9	122.1	138.4
54.5°	78.9	77.8	77.3	95.9	106.8	121.6
55°	67.4	67.7	67.2	84.7	93.4	106.3
55.5°	57.0	57.7	57.2	73.8	81.9	92.1
56°	47.1	47.8	47.1	62.8	70.7	80.6
56.5°	38.7	38.9	38.2	51.9	59.3	69.5
57°	30.5	29.3	28.5	41.0	48.1	58.0
57.5°	22.1	19.8	18.8	31.3	36.9	46.8
58°	14.0	11.7	10.7	20.9	26.5	35.4
58.5°	5.6	9.4	8.4	12.5	17.0	25.2
59°	3.1	7.4	6.1	6.4	9.7	15.5
59.5°	2.3	5.6	4.1	5.1	7.6	8.4
60°	2.0	3.6	1.8	3.8	5.6	6.6
60.5°	1.8	1.5	1.5	2.8	3.6	5.1
61°	1.5	1.3	1.3	1.5	1.8	3.3
61.5°	1.3	1.3	1.0	1.3	1.5	1.8
62°	1.0	1.0	1.0	1.3	1.3	1.5
62.5°	1.0	1.0	0.8	1.0	1.0	1.3
63°	1.0	0.8	0.8	1.0	1.0	1.3
63.5°	0.8	0.8	0.8	0.8	0.8	1.0
64°	0.8	0.8	0.8	0.8	0.8	0.8
64.5°	0.8	0.5	0.5	0.8	0.8	0.8
65°	0.5	0.5	0.5	0.5	0.5	0.8
65.5°	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776078

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.3	0.3	0.3	0.3	0.5
68°	0.3	0.3	0.3	0.3	0.3	0.5
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.0	0.3	0.3	0.3
73.5°	0.3	0.0	0.0	0.0	0.0	0.3
74°	0.3	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	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
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: P776078

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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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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21.5°	2025.8	2067.5	2107.7	2117.1	2076.9	2057.1	2008.0	1954.3	1915.1	1892.7	1873.9
22°	2008.7	2052.0	2094.0	2101.9	2061.7	2040.5	1988.9	1936.2	1895.0	1873.2	1851.0



44°	682.8	733.9	776.7	798.6	765.7	736.7	660.4	624.0	577.2	543.9	510.8
44.5°	648.7	699.1	740.6	759.6	732.4	701.9	627.4	590.2	546.7	513.4	482.1



66.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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°	1868.1	1874.4	1892.2	1953.8	1997.3	2025.8
22°	1846.9	1853.6	1872.1	1933.2	1977.2	2008.7



44°	499.1	512.9	525.3	585.6	620.7	682.8
44.5°	470.1	483.1	494.3	550.5	587.4	648.7

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66.5°	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.3	0.5	0.5	0.5

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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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(END OF REPORT)