

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: P776083

Luminaire Tested: HCDJBL51525CSD-HCD6TRH-2500lm-4000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776083  
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-HCD6TRH-2500lm-4000K  
Description: 6 INCH ROUND MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

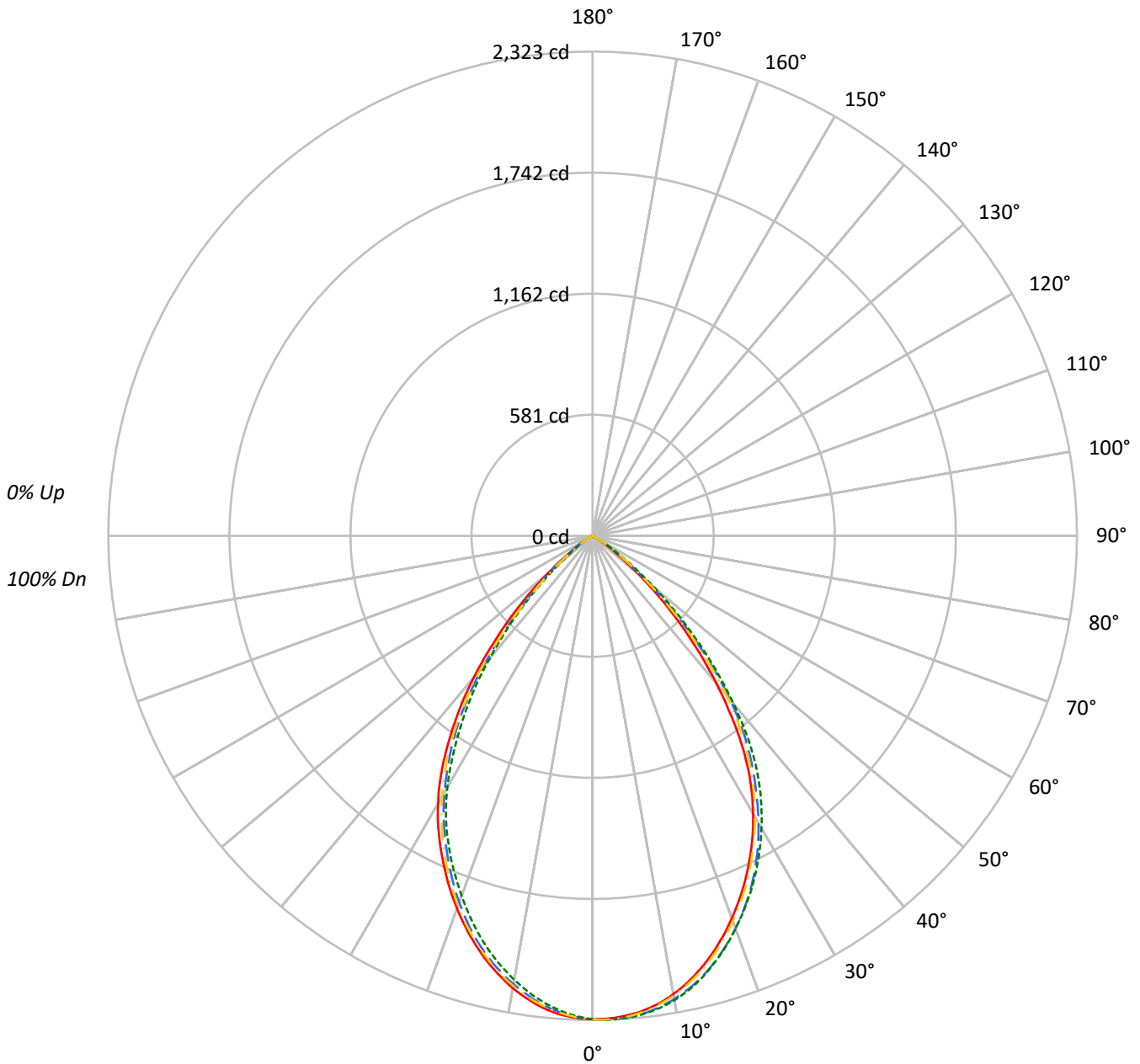
Lumens per Lamp: N/A  
Luminaire Lumens: 2917.3 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P776083  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-4000K

### 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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59					59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	127166	127166	127166	127166
5°	126601	127371	126029	124752
10°	124313	125955	122660	120466
15°	119950	122384	117538	114598
20°	113935	116992	110989	107203
25°	106573	110571	103155	98897
30°	97464	102528	93888	88305
35°	84631	91946	80428	73147
40°	65974	75162	63405	54946
45°	45237	54556	43501	35321
50°	24912	32980	23829	17347
55°	9529	14480	10303	7388
60°	1250	3706	2478	976
65°	169	298	233	169
70°	48	80	80	80
75°	64	64	64	64
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 54556 cd/sqm



TEST NUMBER: P776083  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	7.4
10°-20°	587.1	20.1
20°-30°	794.1	27.2
30°-40°	762.4	26.1
40°-50°	444.0	15.2
50°-60°	109.3	3.7
60°-70°	3.5	0.1
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°	1597.8	54.8
0°-40°	2360.2	80.9
0°-60°	2913.5	99.9
0°-90°	2917.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2917.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2320	2320	2320	2320	2320	
5°	2301	2315	2290	2267	2301	217
15°	2114	2156	2071	2019	2114	593
25°	1762	1828	1705	1635	1762	807
35°	1265	1374	1202	1093	1265	778
45°	584	704	561	456	584	451
55°	100	152	108	77	100	103
65°	1	2	2	1	1	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776083

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7
0.5°	2319.1	2319.4	2321.2	2322.7	2320.4	2321.4	2321.9	2320.9	2318.6	2317.6	2317.9
1°	2318.6	2319.7	2322.2	2324.0	2321.9	2322.5	2322.5	2320.7	2317.6	2315.6	2315.8
1.5°	2317.9	2319.7	2322.5	2324.7	2322.7	2323.2	2322.2	2319.9	2316.6	2313.6	2313.0
2°	2316.6	2319.4	2322.5	2324.7	2323.2	2323.2	2321.9	2318.6	2314.1	2311.0	2309.7
2.5°	2316.6	2318.4	2321.7	2324.2	2322.7	2322.5	2320.7	2316.9	2312.0	2307.7	2305.7
3°	2312.8	2316.9	2320.9	2323.5	2322.2	2321.7	2318.9	2314.1	2308.5	2303.9	2301.1
3.5°	2310.5	2315.1	2319.4	2322.2	2320.9	2319.7	2316.6	2311.3	2304.9	2299.6	2296.8
4°	2307.7	2313.0	2317.4	2320.4	2319.1	2317.9	2314.1	2307.5	2300.8	2295.0	2290.7
4.5°	2304.1	2310.5	2314.8	2318.1	2317.1	2315.3	2310.5	2303.4	2296.3	2289.1	2284.8
5°	2300.6	2307.2	2312.0	2315.6	2314.6	2312.3	2306.7	2298.8	2290.2	2283.0	2278.2
5.5°	2297.3	2303.4	2309.0	2312.3	2311.8	2309.0	2302.1	2293.5	2283.8	2276.4	2270.8
6°	2291.4	2299.1	2305.2	2308.7	2308.5	2304.9	2297.0	2287.1	2277.2	2269.3	2263.2
6.5°	2286.4	2294.7	2300.8	2304.9	2304.4	2300.3	2292.2	2280.3	2269.8	2261.7	2254.6
7°	2280.5	2289.4	2295.8	2300.6	2300.1	2295.8	2285.8	2273.4	2262.2	2253.3	2246.4
7.5°	2273.9	2283.6	2290.4	2295.3	2295.0	2290.4	2279.5	2265.3	2253.3	2244.1	2236.8
8°	2266.8	2277.2	2284.8	2289.4	2289.7	2284.8	2272.6	2257.1	2244.4	2234.7	2227.4
8.5°	2259.4	2270.3	2278.5	2283.3	2283.8	2278.2	2265.0	2248.5	2235.0	2225.1	2216.9
9°	2251.3	2262.7	2271.9	2276.7	2277.2	2271.4	2257.4	2239.3	2224.8	2214.9	2207.0
9.5°	2242.4	2255.1	2264.2	2269.6	2270.3	2264.2	2248.5	2229.4	2214.9	2204.0	2195.8
10°	2233.2	2246.7	2256.9	2261.9	2262.7	2256.1	2239.6	2219.5	2203.5	2193.0	2184.4
10.5°	2223.3	2237.5	2248.5	2253.8	2254.3	2247.7	2230.2	2208.6	2192.3	2181.6	2172.7
11°	2213.1	2228.4	2240.3	2245.2	2245.7	2238.3	2220.3	2197.6	2180.3	2169.7	2160.8
11.5°	2202.5	2218.5	2230.7	2235.8	2236.3	2228.9	2210.1	2186.2	2167.6	2157.5	2148.3
12°	2190.5	2208.0	2221.5	2225.8	2226.4	2218.5	2198.9	2174.2	2155.2	2144.7	2135.3
12.5°	2178.8	2197.1	2210.8	2215.9	2215.9	2207.8	2187.5	2162.0	2142.2	2131.5	2122.4
13°	2166.9	2186.2	2200.7	2205.8	2205.8	2196.9	2176.3	2149.6	2129.0	2118.0	2108.9
13.5°	2153.9	2174.0	2189.5	2194.1	2193.6	2184.7	2163.6	2136.4	2114.7	2104.3	2094.9
14°	2141.2	2162.0	2177.8	2182.6	2181.6	2172.7	2151.1	2122.9	2100.8	2089.8	2080.4
14.5°	2127.5	2149.1	2165.6	2170.7	2168.6	2159.5	2138.1	2108.6	2086.3	2074.6	2065.7
15°	2113.5	2136.4	2152.9	2158.2	2156.4	2146.5	2124.2	2094.4	2071.0	2059.1	2050.4
15.5°	2099.0	2122.6	2139.9	2145.8	2142.7	2133.0	2109.9	2079.7	2055.5	2044.1	2034.7
16°	2084.2	2108.4	2126.4	2131.8	2129.2	2119.1	2095.9	2064.7	2040.0	2028.0	2018.1
16.5°	2069.0	2094.2	2112.2	2118.0	2115.0	2104.3	2080.9	2049.2	2024.0	2011.3	2001.4
17°	2053.5	2079.4	2098.2	2104.1	2100.0	2089.6	2065.9	2033.4	2007.2	1994.0	1984.3
17.5°	2037.2	2064.4	2083.5	2089.8	2085.3	2074.3	2050.2	2016.6	1990.7	1976.7	1966.3
18°	2021.2	2048.6	2068.5	2074.6	2069.5	2058.8	2034.7	2000.3	1972.9	1958.9	1948.0
18.5°	2004.7	2032.6	2052.7	2059.3	2053.7	2043.0	2018.1	1983.0	1955.6	1940.6	1929.9
19°	1987.6	2016.4	2037.5	2043.8	2038.0	2027.0	2001.4	1965.8	1938.0	1922.8	1910.3
19.5°	1970.3	1999.6	2020.9	2027.8	2021.9	2010.3	1984.3	1948.0	1920.8	1903.5	1890.8
20°	1953.0	1982.8	2004.9	2011.5	2005.4	1993.0	1967.5	1930.7	1902.5	1884.4	1871.2
20.5°	1935.0	1965.0	1988.1	1994.0	1987.9	1976.2	1949.7	1912.4	1883.9	1865.1	1851.6
21°	1916.9	1947.2	1971.1	1977.2	1970.8	1958.6	1931.4	1894.3	1865.6	1846.0	1832.0



TEST NUMBER: P776083

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1861.3	1891.8	1917.5	1923.3	1920.0	1904.0	1876.0	1839.9	1807.6	1786.0	1768.2
23°	1842.2	1872.5	1898.6	1904.7	1901.9	1884.7	1857.7	1820.3	1787.0	1765.2	1746.9
23.5°	1822.9	1852.6	1879.6	1885.7	1883.9	1865.3	1839.2	1800.8	1766.9	1743.8	1724.7
24°	1802.8	1833.0	1859.5	1866.1	1865.8	1846.0	1819.3	1780.9	1746.4	1722.7	1702.9
24.5°	1782.5	1813.0	1839.7	1846.5	1847.8	1829.7	1798.7	1760.8	1726.5	1701.4	1680.5
25°	1761.9	1792.6	1819.3	1826.4	1828.0	1809.7	1777.9	1740.8	1705.4	1680.0	1658.9
25.5°	1741.3	1771.0	1798.7	1805.6	1808.1	1789.1	1757.0	1719.9	1684.6	1658.1	1636.5
26°	1720.7	1750.4	1777.4	1785.3	1788.6	1769.0	1735.9	1699.6	1663.7	1636.5	1614.4
26.5°	1698.8	1729.3	1755.5	1764.2	1768.7	1747.6	1714.1	1678.5	1642.6	1614.7	1591.8
27°	1677.5	1706.9	1733.9	1742.8	1748.6	1727.0	1692.7	1657.6	1620.5	1592.8	1569.4
27.5°	1655.1	1684.3	1711.3	1721.2	1727.5	1705.4	1671.1	1636.3	1599.4	1570.4	1546.3
28°	1633.0	1661.7	1687.9	1698.8	1706.4	1684.1	1649.2	1614.4	1577.3	1546.8	1522.4
28.5°	1610.3	1638.8	1664.5	1676.4	1685.6	1662.2	1627.1	1592.8	1555.2	1522.9	1497.7
29°	1587.2	1615.4	1640.6	1653.6	1664.2	1640.3	1604.2	1570.2	1532.0	1499.2	1473.0
29.5°	1563.6	1591.0	1615.9	1630.4	1641.9	1618.5	1581.4	1546.5	1507.9	1474.6	1446.9
30°	1539.7	1566.4	1591.3	1606.8	1619.7	1596.1	1558.0	1522.9	1483.2	1449.7	1420.9
30.5°	1515.3	1541.4	1566.4	1581.9	1597.1	1573.0	1534.3	1498.2	1458.8	1423.5	1394.5
31°	1490.3	1516.0	1539.9	1558.0	1575.0	1549.8	1509.9	1473.6	1432.6	1397.3	1367.5
31.5°	1464.7	1490.1	1514.7	1532.8	1551.1	1526.4	1485.3	1448.1	1405.9	1370.8	1340.3
32°	1438.0	1463.1	1488.0	1507.1	1527.5	1502.5	1460.6	1422.2	1378.5	1343.6	1312.4
32.5°	1411.8	1437.5	1461.6	1480.9	1503.6	1477.9	1435.2	1395.8	1350.8	1315.9	1284.9
33°	1384.3	1410.3	1435.4	1455.3	1479.2	1453.0	1409.5	1368.0	1322.3	1287.2	1257.5
33.5°	1356.1	1383.0	1409.7	1429.1	1453.5	1427.8	1383.6	1340.1	1293.0	1258.5	1229.7
34°	1326.4	1355.1	1382.5	1402.6	1428.3	1401.9	1357.1	1311.9	1263.6	1230.0	1201.5
34.5°	1296.1	1327.6	1355.3	1375.9	1400.8	1374.7	1330.9	1282.9	1232.3	1199.5	1172.5
35°	1264.6	1298.9	1327.6	1348.0	1373.9	1347.7	1304.0	1253.1	1201.8	1169.0	1143.8
35.5°	1233.0	1270.2	1301.2	1320.3	1345.4	1320.5	1277.0	1223.6	1171.5	1138.7	1114.3
36°	1199.2	1241.2	1272.2	1292.5	1316.9	1292.8	1249.3	1193.9	1141.0	1108.0	1083.8
36.5°	1165.4	1210.4	1245.0	1264.8	1286.4	1264.1	1220.6	1163.6	1110.0	1076.7	1052.3
37°	1130.6	1179.2	1216.0	1235.6	1255.4	1234.3	1191.1	1133.6	1078.0	1045.2	1019.2
37.5°	1096.0	1146.6	1186.3	1205.6	1223.4	1203.8	1161.4	1102.6	1047.7	1013.1	986.9
38°	1060.2	1113.3	1155.3	1173.3	1190.3	1171.8	1130.3	1071.9	1015.9	980.3	952.9
38.5°	1026.1	1080.0	1124.2	1143.0	1155.5	1139.5	1098.8	1040.8	984.4	947.3	919.1
39°	990.5	1045.4	1091.4	1110.0	1121.2	1106.2	1066.0	1009.6	952.1	914.0	885.3
39.5°	956.2	1010.8	1058.1	1076.9	1085.8	1071.6	1032.7	977.3	920.1	880.4	850.2
40°	921.9	974.2	1023.3	1042.6	1050.3	1035.3	998.6	944.2	886.0	845.8	815.1
40.5°	887.8	938.6	989.7	1007.5	1015.2	998.9	964.6	911.2	852.7	811.8	779.2
41°	853.2	905.1	955.4	971.7	980.1	961.8	928.0	877.9	818.6	778.0	743.6
41.5°	819.2	870.3	920.3	936.1	946.3	925.2	892.1	845.1	784.6	745.7	708.6
42°	784.8	835.2	884.2	915.0	911.7	888.3	855.8	810.3	750.3	711.9	674.0
42.5°	750.5	800.3	848.1	876.4	878.4	851.7	819.9	775.9	718.5	679.1	640.7
43°	715.7	765.3	812.0	836.9	844.6	815.6	784.3	740.8	685.7	646.5	608.6
43.5°	681.6	731.4	776.2	797.8	808.7	780.3	748.7	706.8	654.9	614.5	577.1



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CATALOG NUMBER: HCDJBL1525CSD-HCD6TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	583.5	630.0	667.6	688.5	703.7	675.5	643.0	604.8	561.1	520.9	487.9
45.5°	552.5	596.2	632.0	654.7	669.2	640.4	608.4	573.1	530.3	491.2	459.9
46°	520.4	563.4	596.7	620.8	635.8	606.9	574.8	540.3	500.3	461.7	432.7
46.5°	488.9	530.8	561.6	587.3	603.6	573.8	541.0	508.5	469.8	434.5	406.5
47°	458.1	498.6	528.1	553.5	571.3	541.5	508.5	476.2	440.3	406.3	380.8
47.5°	428.1	466.8	495.8	520.7	539.2	510.0	476.7	445.7	411.9	380.3	356.7
48°	398.9	436.0	464.0	488.4	507.7	480.3	445.9	414.9	384.4	354.9	333.6
48.5°	370.9	406.3	432.7	457.1	476.7	451.5	416.4	385.7	357.5	331.3	311.7
49°	343.5	377.0	403.2	426.4	445.9	422.8	387.5	356.9	330.5	307.6	290.6
49.5°	317.0	348.6	374.2	396.6	415.4	395.1	360.8	329.7	304.6	285.3	269.7
50°	292.1	320.3	346.3	366.6	386.7	367.4	334.3	303.8	279.4	264.2	250.7
50.5°	267.5	292.9	318.8	338.1	358.5	341.2	309.4	279.2	255.8	245.6	233.1
51°	244.3	267.5	293.4	310.7	331.0	315.5	285.8	256.0	235.2	227.3	215.6
51.5°	221.4	243.3	268.5	284.7	305.3	291.1	263.1	236.4	214.8	208.7	198.3
52°	200.1	220.7	245.1	260.1	280.4	267.2	244.3	216.9	194.2	190.4	180.8
52.5°	179.7	198.8	222.2	235.9	256.3	246.9	225.3	197.0	173.9	172.1	164.5
53°	160.9	179.0	201.1	213.3	234.7	226.3	206.2	177.5	157.9	156.4	150.0
53.5°	143.1	160.7	180.5	192.2	213.1	205.9	187.1	160.9	143.4	142.1	135.8
54°	127.4	143.6	161.9	172.9	191.2	185.3	168.1	145.9	130.4	128.6	122.8
54.5°	112.9	127.6	143.6	154.6	169.8	165.0	152.5	132.2	118.7	115.7	109.6
55°	99.7	113.4	127.4	138.1	151.5	149.2	137.8	120.0	107.8	104.0	97.6
55.5°	86.9	99.4	111.9	122.5	135.0	133.0	123.8	107.8	97.1	92.3	85.9
56°	77.0	86.7	98.1	108.1	119.7	118.7	110.3	96.9	86.9	81.6	75.3
56.5°	66.9	76.5	86.2	94.3	105.8	105.0	97.6	86.4	77.3	71.4	65.1
57°	56.9	66.6	75.8	83.4	92.8	92.3	85.9	76.3	67.9	62.0	55.9
57.5°	47.0	56.4	65.1	72.7	80.3	80.1	74.7	66.6	59.2	53.4	47.3
58°	37.6	46.3	54.7	61.8	69.2	68.9	64.6	57.7	50.8	44.5	37.9
58.5°	28.5	36.4	44.2	51.1	59.0	58.7	55.2	49.1	41.9	37.9	32.3
59°	20.8	27.5	34.3	40.4	49.1	49.6	45.8	39.7	35.6	31.3	26.4
59.5°	15.3	20.1	25.2	30.3	41.4	42.7	38.6	33.6	29.2	24.4	20.8
60°	11.4	14.5	18.3	22.1	33.8	35.8	31.8	27.5	22.6	17.8	15.3
60.5°	8.4	10.9	13.2	15.8	26.2	29.0	24.7	21.4	16.3	11.2	9.4
61°	7.1	9.4	9.9	11.7	18.6	22.1	17.5	15.3	10.2	8.6	7.4
61.5°	5.8	7.9	8.4	8.6	10.9	15.3	10.7	9.2	7.6	6.9	5.8
62°	4.6	6.4	6.9	7.4	8.1	8.4	8.1	6.9	5.8	5.3	4.8
62.5°	3.3	4.8	5.3	6.1	6.4	6.4	6.1	5.6	4.6	4.3	3.8
63°	2.8	3.6	4.1	4.8	5.1	5.1	4.8	4.3	3.8	3.6	3.3
63.5°	2.3	2.8	3.3	3.6	4.1	4.1	3.8	3.6	3.1	3.1	2.8
64°	1.8	2.3	2.8	3.1	3.3	3.3	3.3	3.1	2.5	2.5	2.3
64.5°	1.5	2.0	2.3	2.5	2.8	2.8	2.5	2.5	2.0	2.0	2.0
65°	1.3	1.8	2.0	2.0	2.3	2.3	2.3	2.0	1.8	1.8	1.8
65.5°	1.3	1.5	1.5	1.8	2.0	1.8	1.8	1.8	1.5	1.5	1.5
66°	1.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3





TEST NUMBER: P776083

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
68°	0.5	0.8	0.8	0.8	1.0	0.8	1.0	0.8	0.8	0.8	0.8
68.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3
77°	0.0	0.0	0.0	0.3	0.3	0.3	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: P776083  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-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: P776083

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7
0.5°	2318.9	2316.1	2317.6	2318.9	2319.7	2319.1
1°	2316.4	2313.0	2314.8	2316.9	2318.1	2318.6
1.5°	2313.0	2309.5	2311.8	2314.1	2316.9	2317.9
2°	2309.0	2305.2	2307.7	2311.0	2314.1	2316.6
2.5°	2304.7	2300.3	2302.9	2307.5	2311.5	2316.6
3°	2299.6	2294.7	2298.0	2302.9	2309.0	2312.8
3.5°	2294.0	2288.6	2292.2	2298.6	2305.4	2310.5
4°	2288.1	2282.3	2286.1	2293.5	2301.9	2307.7
4.5°	2281.5	2274.9	2279.5	2287.9	2297.3	2304.1
5°	2274.1	2267.0	2272.1	2281.5	2292.5	2300.6
5.5°	2266.3	2259.1	2264.2	2274.9	2286.9	2297.3
6°	2257.9	2250.5	2256.4	2268.0	2281.3	2291.4
6.5°	2249.0	2240.8	2247.5	2260.2	2274.9	2286.4
7°	2239.8	2231.7	2238.3	2252.0	2268.3	2280.5
7.5°	2229.9	2221.3	2228.6	2243.9	2260.9	2273.9
8°	2220.0	2210.3	2218.7	2234.7	2253.0	2266.8
8.5°	2209.3	2199.1	2208.0	2225.1	2244.1	2259.4
9°	2198.6	2188.0	2196.9	2215.2	2235.3	2251.3
9.5°	2186.7	2176.0	2185.7	2204.5	2225.6	2242.4
10°	2175.0	2164.1	2173.7	2193.8	2215.7	2233.2
10.5°	2162.5	2150.8	2161.8	2182.4	2205.3	2223.3
11°	2149.8	2137.6	2149.1	2170.2	2194.3	2213.1
11.5°	2136.9	2124.4	2135.8	2157.7	2182.9	2202.5
12°	2123.1	2110.2	2122.4	2145.0	2170.7	2190.5
12.5°	2109.4	2096.2	2108.6	2131.5	2158.2	2178.8
13°	2094.9	2081.4	2094.2	2118.0	2145.8	2166.9
13.5°	2080.2	2066.4	2079.2	2103.8	2132.3	2153.9
14°	2064.7	2051.2	2063.9	2089.8	2118.8	2141.2
14.5°	2048.9	2035.4	2048.4	2075.1	2104.6	2127.5
15°	2032.6	2019.2	2032.4	2059.8	2090.8	2113.5
15.5°	2016.9	2002.1	2015.8	2044.1	2075.3	2099.0
16°	1999.8	1985.6	1999.3	2028.6	2060.3	2084.2
16.5°	1982.8	1967.8	1982.0	2012.8	2045.1	2069.0
17°	1965.0	1950.5	1964.7	1996.3	2029.3	2053.5
17.5°	1947.7	1932.2	1946.9	1978.7	2012.3	2037.2
18°	1929.9	1913.6	1929.2	1961.4	1995.5	2021.2
18.5°	1911.4	1894.8	1911.1	1943.6	1978.5	2004.7
19°	1893.0	1876.5	1892.0	1925.3	1960.7	1987.6
19.5°	1874.5	1857.5	1873.7	1907.3	1942.9	1970.3
20°	1855.9	1837.6	1855.2	1888.2	1924.6	1953.0
20.5°	1837.6	1818.3	1836.1	1868.9	1905.5	1935.0
21°	1817.8	1798.7	1816.8	1849.6	1886.4	1916.9



TEST NUMBER: P776083

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1757.0	1739.2	1757.0	1788.3	1826.7	1861.3
23°	1736.2	1718.6	1736.2	1767.5	1806.1	1842.2
23.5°	1715.6	1698.3	1716.4	1746.6	1785.3	1822.9
24°	1694.2	1677.5	1695.0	1725.3	1763.9	1802.8
24.5°	1672.9	1656.6	1674.4	1703.4	1743.0	1782.5
25°	1651.5	1635.0	1652.8	1681.5	1721.7	1761.9
25.5°	1629.7	1613.6	1631.4	1659.7	1699.8	1741.3
26°	1608.3	1592.0	1608.8	1636.5	1678.2	1720.7
26.5°	1585.9	1569.7	1585.9	1614.4	1656.1	1698.8
27°	1563.0	1546.8	1562.8	1590.3	1633.7	1677.5
27.5°	1539.7	1523.9	1538.9	1566.6	1610.8	1655.1
28°	1515.8	1498.7	1513.7	1542.5	1587.5	1633.0
28.5°	1490.8	1473.8	1489.8	1518.0	1563.8	1610.3
29°	1465.9	1448.1	1464.2	1493.4	1539.9	1587.2
29.5°	1440.5	1422.2	1438.0	1467.7	1515.5	1563.6
30°	1414.1	1395.0	1411.3	1442.3	1491.1	1539.7
30.5°	1387.1	1366.0	1384.3	1416.1	1465.4	1515.3
31°	1359.7	1337.0	1355.8	1389.9	1439.7	1490.3
31.5°	1331.7	1307.5	1327.4	1364.0	1413.8	1464.7
32°	1303.5	1277.3	1297.6	1336.0	1387.6	1438.0
32.5°	1274.0	1247.3	1268.1	1309.3	1360.9	1411.8
33°	1244.0	1216.0	1237.9	1281.9	1333.0	1384.3
33.5°	1213.5	1185.3	1207.6	1254.2	1305.3	1356.1
34°	1182.7	1154.5	1177.6	1225.4	1276.5	1326.4
34.5°	1151.2	1123.5	1146.9	1195.2	1247.8	1296.1
35°	1120.2	1093.0	1115.6	1164.9	1217.3	1264.6
35.5°	1088.9	1062.2	1085.6	1133.9	1187.0	1233.0
36°	1056.9	1031.9	1055.1	1102.4	1154.2	1199.2
36.5°	1025.1	1001.2	1024.3	1070.1	1120.9	1165.4
37°	992.8	969.9	993.0	1034.5	1086.6	1130.6
37.5°	960.3	937.9	961.3	1001.2	1053.0	1096.0
38°	927.5	906.4	928.5	965.8	1016.4	1060.2
38.5°	893.6	871.8	894.4	931.8	980.3	1026.1
39°	860.8	837.2	860.3	912.2	943.0	990.5
39.5°	827.3	802.4	826.3	872.5	900.8	956.2
40°	793.5	767.8	791.9	832.6	865.7	921.9
40.5°	759.9	734.5	757.9	793.0	830.6	887.8
41°	726.6	702.5	722.3	753.3	795.8	853.2
41.5°	694.8	670.7	688.0	718.2	760.7	819.2
42°	661.3	639.9	654.4	682.9	725.3	784.8
42.5°	629.0	608.6	622.1	648.1	690.8	750.5
43°	597.2	577.9	590.1	613.5	655.4	715.7
43.5°	564.9	546.9	557.3	579.7	621.4	681.6



TEST NUMBER: P776083

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	475.2	455.6	463.0	481.8	525.0	583.5
45.5°	446.4	427.1	431.9	451.3	495.3	552.5
46°	418.5	399.2	402.5	422.0	465.8	520.4
46.5°	392.5	370.9	373.5	393.8	437.8	488.9
47°	365.6	344.2	346.0	366.4	409.3	458.1
47.5°	340.9	318.1	319.8	340.4	382.9	428.1
48°	317.3	292.9	294.4	315.5	355.9	398.9
48.5°	294.4	268.2	270.8	291.9	330.3	370.9
49°	272.8	245.6	248.1	269.5	304.8	343.5
49.5°	252.2	223.7	226.8	247.9	281.2	317.0
50°	233.9	203.4	207.5	227.8	257.5	292.1
50.5°	215.8	185.1	188.9	208.5	235.7	267.5
51°	197.5	168.6	172.4	190.7	215.1	244.3
51.5°	179.5	153.6	156.9	173.4	195.5	221.4
52°	164.0	140.1	142.9	157.9	177.2	200.1
52.5°	149.0	127.9	129.7	143.1	159.9	179.7
53°	134.7	116.2	118.0	128.9	143.4	160.9
53.5°	122.0	105.5	106.5	115.4	128.1	143.1
54°	109.8	95.3	95.8	103.2	114.2	127.4
54.5°	98.1	86.2	86.7	91.5	101.2	112.9
55°	87.5	77.3	77.5	81.9	88.2	99.7
55.5°	76.8	68.4	68.6	72.2	78.3	86.9
56°	67.1	59.5	59.5	62.5	68.4	77.0
56.5°	58.2	50.6	50.3	53.1	58.5	66.9
57°	49.8	41.4	41.2	43.5	48.6	56.9
57.5°	40.7	32.3	32.3	34.1	39.2	47.0
58°	34.6	24.7	24.4	25.9	30.0	37.6
58.5°	28.5	18.6	18.1	19.1	22.4	28.5
59°	22.4	13.7	13.5	14.2	16.5	20.8
59.5°	16.3	10.4	10.2	10.7	12.2	15.3
60°	10.2	8.9	8.6	9.2	9.2	11.4
60.5°	7.9	7.1	7.1	7.6	7.9	8.4
61°	6.4	5.6	5.3	6.4	6.4	7.1
61.5°	5.1	4.1	3.8	4.8	5.1	5.8
62°	4.1	3.3	3.3	3.3	3.8	4.6
62.5°	3.3	2.8	2.5	2.8	3.1	3.3
63°	2.8	2.3	2.3	2.3	2.5	2.8
63.5°	2.3	2.0	1.8	1.8	2.0	2.3
64°	2.0	1.8	1.5	1.5	1.8	1.8
64.5°	1.8	1.5	1.3	1.3	1.5	1.5
65°	1.5	1.3	1.0	1.3	1.3	1.3
65.5°	1.3	1.0	1.0	1.0	1.0	1.3
66°	1.0	1.0	0.8	0.8	1.0	1.0



TEST NUMBER: P776083

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.8	0.5	0.5	0.8	0.8
68°	0.8	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	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	0.3	0.3	0.3	0.3
70.5°	0.5	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	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.0	0.0	0.3
75.5°	0.3	0.0	0.0	0.0	0.0	0.0
76°	0.3	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: P776083

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-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





21.5°	1898.4	1928.9	1953.8	1959.7	1954.1	1940.8	1913.1	1876.3	1847.3	1826.9	1810.9
22°	1880.1	1910.6	1935.5	1941.6	1936.8	1923.3	1894.6	1858.0	1827.2	1806.6	1790.1



44°	647.8	697.4	740.1	758.1	773.4	745.4	712.6	671.7	622.4	582.2	546.6
44.5°	615.3	663.8	703.7	723.3	738.3	710.6	678.3	638.1	592.6	551.9	517.6



66.5°	0.8	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0
67°	0.8	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0



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°	1797.5	1779.2	1796.9	1829.2	1866.6	1898.4
22°	1777.4	1759.1	1777.1	1809.2	1846.8	1880.1



44°	534.4	515.6	525.3	546.4	588.8	647.8
44.5°	504.9	485.1	494.2	513.8	556.8	615.3

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66.5°	1.0	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	0.8	0.8	0.8	0.8

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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)