

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: P776080

Luminaire Tested: HCDJBS1525CSD-HCD6TRH-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776080
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-2700K
Description: 6 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

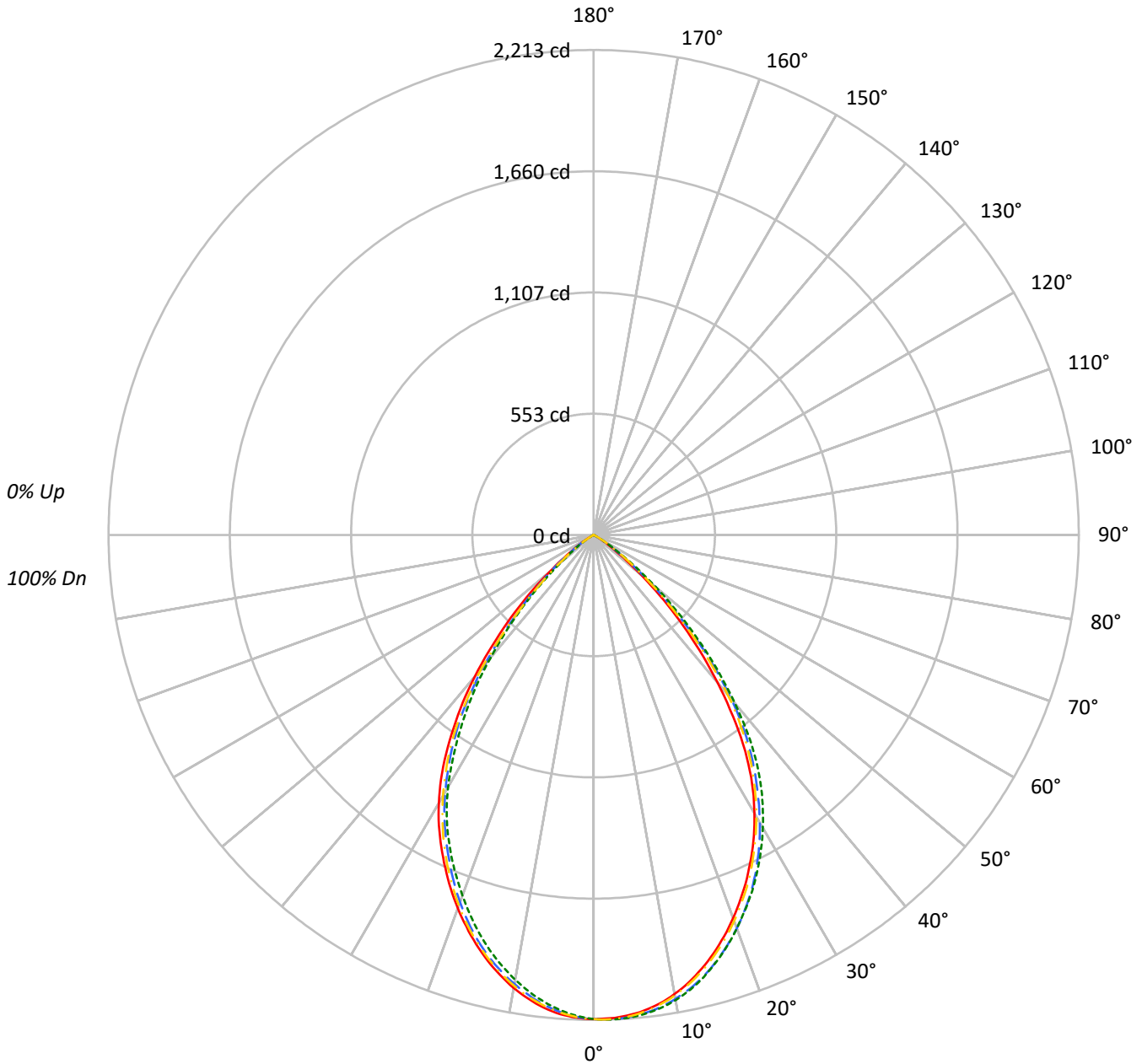
Lumens per Lamp: N/A
Luminaire Lumens: 2779.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (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										
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°	121136	121136	121136	121136
5°	120603	121335	120053	118842
10°	118424	119988	116848	114755
15°	114263	116590	111970	109166
20°	108539	111450	105727	102127
25°	101522	105327	98268	94209
30°	92843	97673	89438	84121
35°	80622	87589	76614	69680
40°	62846	71598	60399	52341
45°	43090	51974	41438	33647
50°	23735	31419	22703	16528
55°	9070	13792	9816	7034
60°	1195	3530	2368	932
65°	156	285	221	156
70°	32	80	80	80
75°	42	42	42	42
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 51974 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	7.4
10°-20°	559.3	20.1
20°-30°	756.5	27.2
30°-40°	726.3	26.1
40°-50°	423.0	15.2
50°-60°	104.1	3.7
60°-70°	3.3	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°	1522.1	54.8
0°-40°	2248.4	80.9
0°-60°	2775.5	99.9
0°-90°	2779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2779.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2210	2210	2210	2210	2210	
5°	2192	2205	2182	2160	2192	207
15°	2013	2054	1973	1924	2013	565
25°	1678	1741	1625	1558	1678	769
35°	1205	1309	1145	1041	1205	741
45°	556	670	534	434	556	429
55°	95	144	103	74	95	98
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	



TEST NUMBER: P776080

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2209.7	2209.7	2209.7	2209.7	2209.7	2209.7	2209.7	2209.7	2209.7	2209.7	2209.7
0.5°	2209.3	2209.5	2211.2	2212.6	2210.5	2211.4	2211.9	2211.0	2208.8	2207.8	2208.0
1°	2208.8	2209.7	2212.2	2213.9	2211.9	2212.4	2212.4	2210.7	2207.8	2205.9	2206.1
1.5°	2208.0	2209.7	2212.4	2214.6	2212.6	2213.1	2212.2	2210.0	2206.8	2203.9	2203.4
2°	2206.8	2209.5	2212.4	2214.6	2213.1	2213.1	2211.9	2208.8	2204.4	2201.5	2200.3
2.5°	2206.8	2208.5	2211.7	2214.1	2212.6	2212.4	2210.7	2207.1	2202.5	2198.4	2196.4
3°	2203.2	2207.1	2211.0	2213.4	2212.2	2211.7	2209.0	2204.4	2199.1	2194.7	2192.1
3.5°	2201.0	2205.4	2209.5	2212.2	2211.0	2209.7	2206.8	2201.8	2195.7	2190.6	2187.9
4°	2198.4	2203.4	2207.6	2210.5	2209.3	2208.0	2204.4	2198.1	2191.8	2186.3	2182.1
4.5°	2195.0	2201.0	2205.1	2208.3	2207.3	2205.6	2201.0	2194.2	2187.5	2180.7	2176.6
5°	2191.6	2197.9	2202.5	2205.9	2204.9	2202.7	2197.4	2189.9	2181.6	2174.9	2170.3
5.5°	2188.4	2194.2	2199.6	2202.7	2202.2	2199.6	2193.0	2184.8	2175.6	2168.6	2163.2
6°	2182.9	2190.1	2195.9	2199.3	2199.1	2195.7	2188.2	2178.7	2169.3	2161.8	2156.0
6.5°	2178.0	2186.0	2191.8	2195.7	2195.2	2191.3	2183.6	2172.2	2162.3	2154.5	2147.7
7°	2172.4	2180.9	2187.0	2191.6	2191.1	2187.0	2177.5	2165.7	2155.0	2146.5	2140.0
7.5°	2166.1	2175.4	2181.9	2186.5	2186.3	2181.9	2171.5	2157.9	2146.5	2137.8	2130.8
8°	2159.4	2169.3	2176.6	2180.9	2181.2	2176.6	2164.9	2150.2	2138.1	2128.9	2121.8
8.5°	2152.3	2162.8	2170.5	2175.1	2175.6	2170.3	2157.7	2141.9	2129.1	2119.6	2111.9
9°	2144.6	2155.5	2164.2	2168.8	2169.3	2163.7	2150.4	2133.2	2119.4	2110.0	2102.5
9.5°	2136.1	2148.2	2156.9	2162.0	2162.8	2156.9	2141.9	2123.8	2110.0	2099.5	2091.8
10°	2127.4	2140.2	2149.9	2154.8	2155.5	2149.2	2133.5	2114.3	2099.1	2089.1	2080.9
10.5°	2118.0	2131.5	2141.9	2147.0	2147.5	2141.2	2124.5	2103.9	2088.4	2078.2	2069.8
11°	2108.3	2122.8	2134.2	2138.8	2139.3	2132.2	2115.0	2093.5	2077.0	2066.9	2058.4
11.5°	2098.1	2113.4	2125.0	2129.8	2130.3	2123.3	2105.4	2082.6	2064.9	2055.2	2046.5
12°	2086.7	2103.4	2116.3	2120.4	2120.9	2113.4	2094.7	2071.2	2053.0	2043.1	2034.2
12.5°	2075.6	2093.0	2106.1	2110.9	2110.9	2103.2	2083.8	2059.6	2040.7	2030.5	2021.8
13°	2064.2	2082.6	2096.4	2101.2	2101.2	2092.8	2073.1	2047.7	2028.1	2017.7	2009.0
13.5°	2051.8	2071.0	2085.7	2090.1	2089.6	2081.1	2061.0	2035.1	2014.5	2004.6	1995.6
14°	2039.7	2059.6	2074.6	2079.2	2078.2	2069.8	2049.2	2022.3	2001.2	1990.8	1981.8
14.5°	2026.6	2047.2	2063.0	2067.8	2065.9	2057.2	2036.8	2008.7	1987.4	1976.3	1967.8
15°	2013.3	2035.1	2050.9	2056.0	2054.3	2044.8	2023.5	1995.2	1972.9	1961.5	1953.3
15.5°	1999.5	2022.0	2038.5	2044.1	2041.2	2032.0	2009.9	1981.1	1958.1	1947.2	1938.2
16°	1985.5	2008.5	2025.7	2030.8	2028.3	2018.7	1996.6	1966.8	1943.3	1932.0	1922.5
16.5°	1970.9	1994.9	2012.1	2017.7	2014.8	2004.6	1982.3	1952.1	1928.1	1916.0	1906.5
17°	1956.2	1980.9	1998.8	2004.4	2000.5	1990.6	1968.0	1937.0	1912.1	1899.5	1890.3
17.5°	1940.7	1966.6	1984.7	1990.8	1986.4	1976.0	1953.0	1921.1	1896.3	1883.0	1873.1
18°	1925.4	1951.6	1970.5	1976.3	1971.4	1961.3	1938.2	1905.6	1879.4	1866.1	1855.7
18.5°	1909.7	1936.3	1955.4	1961.7	1956.4	1946.2	1922.5	1889.1	1862.9	1848.6	1838.5
19°	1893.4	1920.8	1940.9	1947.0	1941.4	1931.0	1906.5	1872.6	1846.2	1831.7	1819.8
19.5°	1877.0	1904.8	1925.2	1931.7	1926.1	1915.0	1890.3	1855.7	1829.7	1813.3	1801.2
20°	1860.5	1888.8	1909.9	1916.2	1910.4	1898.5	1874.3	1839.2	1812.3	1795.1	1782.5
20.5°	1843.3	1871.9	1893.9	1899.5	1893.7	1882.5	1857.4	1821.8	1794.6	1776.7	1763.9
21°	1826.1	1854.9	1877.7	1883.5	1877.5	1865.8	1839.9	1804.6	1777.2	1758.5	1745.2



TEST NUMBER: P776080

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1773.1	1802.1	1826.6	1832.2	1829.0	1813.8	1787.1	1752.7	1722.0	1701.4	1684.4
23°	1754.9	1783.7	1808.7	1814.5	1811.8	1795.4	1769.7	1734.1	1702.4	1681.5	1664.1
23.5°	1736.5	1764.8	1790.5	1796.3	1794.6	1776.9	1752.0	1715.4	1683.2	1661.2	1643.0
24°	1717.4	1746.2	1771.4	1777.7	1777.4	1758.5	1733.1	1696.5	1663.6	1641.1	1622.2
24.5°	1698.0	1727.1	1752.5	1759.0	1760.2	1743.0	1713.5	1677.4	1644.7	1620.7	1600.9
25°	1678.4	1707.7	1733.1	1739.9	1741.3	1723.9	1693.6	1658.3	1624.6	1600.4	1580.3
25.5°	1658.8	1687.1	1713.5	1720.0	1722.5	1704.3	1673.8	1638.4	1604.8	1579.6	1559.0
26°	1639.1	1667.5	1693.2	1700.7	1703.8	1685.2	1653.7	1619.0	1584.9	1559.0	1537.9
26.5°	1618.3	1647.4	1672.3	1680.6	1684.9	1664.8	1632.8	1598.9	1564.8	1538.2	1516.4
27°	1598.0	1626.1	1651.7	1660.2	1665.8	1645.2	1612.5	1579.1	1543.7	1517.3	1495.0
27.5°	1576.7	1604.5	1630.2	1639.6	1645.7	1624.6	1591.9	1558.7	1523.6	1496.0	1473.0
28°	1555.6	1583.0	1607.9	1618.3	1625.6	1604.3	1571.1	1537.9	1502.5	1473.5	1450.2
28.5°	1534.0	1561.2	1585.6	1597.0	1605.7	1583.4	1550.0	1517.3	1481.5	1450.7	1426.7
29°	1512.0	1538.9	1562.9	1575.2	1585.4	1562.6	1528.2	1495.8	1459.4	1428.2	1403.3
29.5°	1489.5	1515.6	1539.4	1553.2	1564.1	1541.8	1506.4	1473.2	1436.4	1404.7	1378.3
30°	1466.7	1492.1	1515.9	1530.6	1543.0	1520.5	1484.1	1450.7	1412.9	1381.0	1353.6
30.5°	1443.5	1468.4	1492.1	1506.9	1521.4	1498.4	1461.6	1427.2	1389.7	1356.0	1328.4
31°	1419.7	1444.2	1466.9	1484.1	1500.4	1476.4	1438.4	1403.7	1364.7	1331.1	1302.7
31.5°	1395.3	1419.5	1443.0	1460.2	1477.6	1454.1	1414.9	1379.5	1339.3	1305.9	1276.8
32°	1369.8	1393.8	1417.5	1435.7	1455.1	1431.3	1391.4	1354.8	1313.2	1280.0	1250.2
32.5°	1344.9	1369.3	1392.4	1410.8	1432.3	1407.9	1367.2	1329.6	1286.8	1253.6	1224.0
33°	1318.7	1343.4	1367.4	1386.3	1409.1	1384.1	1342.7	1303.2	1259.6	1226.2	1197.9
33.5°	1291.8	1317.5	1342.9	1361.4	1384.6	1360.1	1318.0	1276.6	1231.8	1198.8	1171.5
34°	1263.5	1290.9	1317.0	1336.2	1360.6	1335.4	1292.8	1249.7	1203.7	1171.7	1144.6
34.5°	1234.7	1264.7	1291.1	1310.7	1334.5	1309.5	1267.9	1222.1	1173.9	1142.7	1117.0
35°	1204.7	1237.3	1264.7	1284.1	1308.8	1283.9	1242.2	1193.8	1144.8	1113.6	1089.6
35.5°	1174.6	1210.0	1239.5	1257.7	1281.7	1257.9	1216.5	1165.7	1116.0	1084.8	1061.5
36°	1142.4	1182.4	1211.9	1231.3	1254.5	1231.5	1190.1	1137.3	1086.9	1055.5	1032.5
36.5°	1110.2	1153.1	1186.0	1204.9	1225.5	1204.2	1162.8	1108.5	1057.4	1025.7	1002.4
37°	1077.0	1123.3	1158.4	1177.0	1195.9	1175.8	1134.7	1079.9	1026.9	995.6	970.9
37.5°	1044.1	1092.3	1130.1	1148.5	1165.4	1146.8	1106.3	1050.4	998.1	965.1	940.2
38°	1009.9	1060.6	1100.5	1117.7	1133.9	1116.3	1076.8	1021.1	967.8	933.9	907.7
38.5°	977.5	1028.8	1071.0	1088.9	1100.8	1085.5	1046.7	991.5	937.8	902.4	875.5
39°	943.6	995.9	1039.7	1057.4	1068.1	1053.8	1015.5	961.7	907.0	870.7	843.3
39.5°	910.9	962.9	1008.0	1025.9	1034.4	1020.8	983.8	931.0	876.5	838.7	809.9
40°	878.2	928.1	974.8	993.2	1000.5	986.2	951.3	899.5	844.0	805.8	776.5
40.5°	845.7	894.2	942.8	959.8	967.1	951.6	918.9	868.0	812.3	773.3	742.3
41°	812.8	862.2	910.2	925.7	933.6	916.2	884.0	836.3	779.9	741.1	708.4
41.5°	780.3	829.0	876.7	891.7	901.4	881.3	849.8	805.0	747.4	710.3	675.0
42°	747.6	795.6	842.3	871.6	868.5	846.2	815.2	771.9	714.7	678.1	642.0
42.5°	714.9	762.4	807.9	834.8	836.8	811.3	781.1	739.2	684.4	646.9	610.3
43°	681.8	729.0	773.6	797.3	804.6	776.9	747.2	705.7	653.2	615.9	579.8
43.5°	649.3	696.8	739.4	760.0	770.4	743.3	713.3	673.3	623.9	585.4	549.8



TEST NUMBER: P776080

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	555.8	600.1	636.0	655.9	670.4	643.5	612.5	576.2	534.5	496.2	464.8
45.5°	526.3	567.9	602.1	623.6	637.4	610.1	579.6	545.9	505.2	467.9	438.1
46°	495.8	536.7	568.4	591.4	605.7	578.1	547.6	514.7	476.6	439.8	412.2
46.5°	465.7	505.7	535.0	559.5	575.0	546.6	515.4	484.4	447.6	413.9	387.3
47°	436.4	474.9	503.0	527.2	544.2	515.9	484.4	453.6	419.5	387.0	362.8
47.5°	407.8	444.7	472.3	496.0	513.7	485.8	454.1	424.6	392.3	362.3	339.8
48°	380.0	415.4	442.0	465.2	483.7	457.5	424.8	395.3	366.2	338.1	317.8
48.5°	353.4	387.0	412.2	435.5	454.1	430.1	396.7	367.4	340.5	315.6	296.9
49°	327.2	359.2	384.1	406.2	424.8	402.8	369.1	340.0	314.8	293.1	276.8
49.5°	302.0	332.0	356.5	377.8	395.7	376.4	343.7	314.1	290.1	271.7	257.0
50°	278.3	305.2	329.9	349.2	368.4	350.0	318.5	289.4	266.2	251.6	238.8
50.5°	254.8	279.0	303.7	322.1	341.5	325.0	294.7	265.9	243.6	234.0	222.1
51°	232.7	254.8	279.5	296.0	315.3	300.6	272.2	243.9	224.0	216.5	205.4
51.5°	210.9	231.8	255.8	271.3	290.9	277.3	250.7	225.2	204.7	198.8	188.9
52°	190.6	210.2	233.5	247.8	267.1	254.5	232.7	206.6	185.0	181.4	172.2
52.5°	171.2	189.4	211.7	224.8	244.1	235.2	214.6	187.7	165.7	164.0	156.7
53°	153.3	170.5	191.6	203.2	223.5	215.5	196.4	169.0	150.4	148.9	142.9
53.5°	136.4	153.1	172.0	183.1	203.0	196.2	178.3	153.3	136.6	135.4	129.3
54°	121.3	136.8	154.3	164.7	182.1	176.6	160.1	139.0	124.2	122.5	117.0
54.5°	107.5	121.6	136.8	147.3	161.8	157.2	145.3	125.9	113.1	110.2	104.4
55°	94.9	108.0	121.3	131.5	144.3	142.2	131.3	114.3	102.7	99.1	93.0
55.5°	82.8	94.7	106.6	116.7	128.6	126.7	117.9	102.7	92.5	87.9	81.9
56°	73.4	82.6	93.5	102.9	114.1	113.1	105.1	92.3	82.8	77.7	71.7
56.5°	63.7	72.9	82.1	89.9	100.8	100.0	93.0	82.3	73.6	68.1	62.0
57°	54.3	63.5	72.2	79.4	88.4	87.9	81.9	72.7	64.7	59.1	53.3
57.5°	44.8	53.8	62.0	69.3	76.5	76.3	71.2	63.5	56.4	50.9	45.0
58°	35.8	44.1	52.1	58.9	65.9	65.6	61.5	55.0	48.4	42.4	36.1
58.5°	27.1	34.6	42.1	48.7	56.2	55.9	52.6	46.7	40.0	36.1	30.8
59°	19.9	26.2	32.7	38.5	46.7	47.2	43.6	37.8	33.9	29.8	25.2
59.5°	14.5	19.1	24.0	28.8	39.5	40.7	36.8	32.0	27.9	23.3	19.9
60°	10.9	13.8	17.4	21.1	32.2	34.1	30.3	26.2	21.6	17.0	14.5
60.5°	8.0	10.4	12.6	15.0	24.9	27.6	23.5	20.3	15.5	10.7	9.0
61°	6.8	9.0	9.4	11.1	17.7	21.1	16.7	14.5	9.7	8.2	7.0
61.5°	5.6	7.5	8.0	8.2	10.4	14.5	10.2	8.7	7.3	6.5	5.6
62°	4.4	6.1	6.5	7.0	7.8	8.0	7.8	6.5	5.6	5.1	4.6
62.5°	3.1	4.6	5.1	5.8	6.1	6.1	5.8	5.3	4.4	4.1	3.6
63°	2.7	3.4	3.9	4.6	4.8	4.8	4.6	4.1	3.6	3.4	3.1
63.5°	2.2	2.7	3.1	3.4	3.9	3.9	3.6	3.4	2.9	2.9	2.7
64°	1.7	2.2	2.7	2.9	3.1	3.1	3.1	2.9	2.4	2.4	2.2
64.5°	1.5	1.9	2.2	2.4	2.7	2.7	2.4	2.4	1.9	1.9	1.9
65°	1.2	1.7	1.9	1.9	2.2	2.2	2.2	1.9	1.7	1.7	1.7
65.5°	1.2	1.5	1.5	1.7	1.9	1.7	1.7	1.7	1.5	1.5	1.5
66°	1.0	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2



TEST NUMBER: P776080
 CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7
68°	0.5	0.7	0.7	0.7	1.0	0.7	1.0	0.7	0.7	0.7	0.7
68.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
69°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
77°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776080
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-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: P776080

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2209.7	2209.7	2209.7	2209.7	2209.7	2209.7
0.5°	2209.0	2206.4	2207.8	2209.0	2209.7	2209.3
1°	2206.6	2203.4	2205.1	2207.1	2208.3	2208.8
1.5°	2203.4	2200.1	2202.2	2204.4	2207.1	2208.0
2°	2199.6	2195.9	2198.4	2201.5	2204.4	2206.8
2.5°	2195.5	2191.3	2193.8	2198.1	2202.0	2206.8
3°	2190.6	2186.0	2189.2	2193.8	2199.6	2203.2
3.5°	2185.3	2180.2	2183.6	2189.6	2196.2	2201.0
4°	2179.7	2174.1	2177.8	2184.8	2192.8	2198.4
4.5°	2173.4	2167.1	2171.5	2179.5	2188.4	2195.0
5°	2166.4	2159.6	2164.5	2173.4	2183.8	2191.6
5.5°	2158.9	2152.1	2156.9	2167.1	2178.5	2188.4
6°	2150.9	2143.9	2149.4	2160.6	2173.2	2182.9
6.5°	2142.4	2134.7	2141.0	2153.1	2167.1	2178.0
7°	2133.7	2125.9	2132.2	2145.3	2160.8	2172.4
7.5°	2124.3	2116.0	2123.0	2137.6	2153.8	2166.1
8°	2114.8	2105.6	2113.6	2128.9	2146.3	2159.4
8.5°	2104.6	2094.9	2103.4	2119.6	2137.8	2152.3
9°	2094.5	2084.3	2092.8	2110.2	2129.3	2144.6
9.5°	2083.1	2072.9	2082.1	2100.0	2120.1	2136.1
10°	2071.9	2061.5	2070.7	2089.9	2110.7	2127.4
10.5°	2060.1	2048.9	2059.3	2079.0	2100.8	2118.0
11°	2048.0	2036.3	2047.2	2067.3	2090.3	2108.3
11.5°	2035.6	2023.7	2034.6	2055.5	2079.4	2098.1
12°	2022.5	2010.2	2021.8	2043.4	2067.8	2086.7
12.5°	2009.5	1996.9	2008.7	2030.5	2056.0	2075.6
13°	1995.6	1982.8	1994.9	2017.7	2044.1	2064.2
13.5°	1981.6	1968.5	1980.6	2004.1	2031.2	2051.8
14°	1966.8	1954.0	1966.1	1990.8	2018.4	2039.7
14.5°	1951.8	1939.0	1951.3	1976.8	2004.9	2026.6
15°	1936.3	1923.5	1936.1	1962.2	1991.8	2013.3
15.5°	1921.3	1907.2	1920.3	1947.2	1977.0	1999.5
16°	1905.1	1891.5	1904.6	1932.4	1962.7	1985.5
16.5°	1888.8	1874.6	1888.1	1917.4	1948.2	1970.9
17°	1871.9	1858.1	1871.6	1901.7	1933.2	1956.2
17.5°	1855.4	1840.6	1854.7	1885.0	1916.9	1940.7
18°	1838.5	1823.0	1837.7	1868.5	1901.0	1925.4
18.5°	1820.8	1805.0	1820.5	1851.5	1884.7	1909.7
19°	1803.3	1787.6	1802.4	1834.1	1867.8	1893.4
19.5°	1785.7	1769.4	1784.9	1816.9	1850.8	1877.0
20°	1768.0	1750.6	1767.3	1798.7	1833.4	1860.5
20.5°	1750.6	1732.1	1749.1	1780.3	1815.2	1843.3
21°	1731.7	1713.5	1730.7	1761.9	1797.1	1826.1

TEST NUMBER: P776080

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1673.8	1656.8	1673.8	1703.6	1740.1	1773.1
23°	1653.9	1637.2	1653.9	1683.7	1720.5	1754.9
23.5°	1634.3	1617.8	1635.0	1663.8	1700.7	1736.5
24°	1614.0	1598.0	1614.7	1643.5	1680.3	1717.4
24.5°	1593.6	1578.1	1595.1	1622.7	1660.5	1698.0
25°	1573.3	1557.5	1574.5	1601.8	1640.1	1678.4
25.5°	1552.4	1537.2	1554.1	1581.0	1619.3	1658.8
26°	1532.1	1516.6	1532.6	1559.0	1598.7	1639.1
26.5°	1510.8	1495.3	1510.8	1537.9	1577.6	1618.3
27°	1489.0	1473.5	1488.7	1514.9	1556.3	1598.0
27.5°	1466.7	1451.7	1466.0	1492.4	1534.5	1576.7
28°	1443.9	1427.7	1442.0	1469.4	1512.2	1555.6
28.5°	1420.2	1404.0	1419.2	1446.1	1489.7	1534.0
29°	1396.5	1379.5	1394.8	1422.6	1466.9	1512.0
29.5°	1372.2	1354.8	1369.8	1398.2	1443.7	1489.5
30°	1347.1	1328.9	1344.4	1373.9	1420.4	1466.7
30.5°	1321.4	1301.3	1318.7	1349.0	1396.0	1443.5
31°	1295.2	1273.7	1291.6	1324.1	1371.5	1419.7
31.5°	1268.6	1245.6	1264.5	1299.4	1346.8	1395.3
32°	1241.7	1216.8	1236.1	1272.7	1321.9	1369.8
32.5°	1213.6	1188.2	1208.0	1247.3	1296.4	1344.9
33°	1185.0	1158.4	1179.2	1221.1	1269.8	1318.7
33.5°	1156.0	1129.1	1150.4	1194.7	1243.4	1291.8
34°	1126.7	1099.8	1121.8	1167.4	1216.0	1263.5
34.5°	1096.6	1070.2	1092.5	1138.5	1188.7	1234.7
35°	1067.1	1041.2	1062.7	1109.7	1159.6	1204.7
35.5°	1037.3	1011.9	1034.2	1080.2	1130.8	1174.6
36°	1006.8	983.1	1005.1	1050.1	1099.5	1142.4
36.5°	976.5	953.7	975.8	1019.4	1067.8	1110.2
37°	945.8	924.0	946.0	985.5	1035.1	1077.0
37.5°	914.8	893.4	915.7	953.7	1003.2	1044.1
38°	883.5	863.4	884.5	920.1	968.3	1009.9
38.5°	851.3	830.5	852.0	887.6	933.9	977.5
39°	820.1	797.5	819.6	869.0	898.3	943.6
39.5°	788.1	764.4	787.1	831.2	858.1	910.9
40°	755.9	731.4	754.4	793.2	824.7	878.2
40.5°	723.9	699.7	722.0	755.4	791.2	845.7
41°	692.2	669.2	688.1	717.6	758.1	812.8
41.5°	661.9	638.9	655.4	684.2	724.6	780.3
42°	629.9	609.6	623.4	650.5	691.0	747.6
42.5°	599.2	579.8	592.6	617.3	658.0	714.9
43°	568.9	550.5	562.1	584.4	624.4	681.8
43.5°	538.1	521.0	530.9	552.2	591.9	649.3



TEST NUMBER: P776080

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	452.7	434.0	441.0	459.0	500.1	555.8
45.5°	425.3	406.9	411.5	429.9	471.8	526.3
46°	398.6	380.2	383.4	402.0	443.7	495.8
46.5°	373.9	353.4	355.8	375.2	417.1	465.7
47°	348.3	327.9	329.6	349.0	389.9	436.4
47.5°	324.8	303.0	304.7	324.3	364.7	407.8
48°	302.3	279.0	280.5	300.6	339.1	380.0
48.5°	280.5	255.5	257.9	278.0	314.6	353.4
49°	259.9	234.0	236.4	256.7	290.4	327.2
49.5°	240.3	213.1	216.0	236.1	267.9	302.0
50°	222.8	193.8	197.6	217.0	245.3	278.3
50.5°	205.6	176.3	179.9	198.6	224.5	254.8
51°	188.2	160.6	164.2	181.6	204.9	232.7
51.5°	171.0	146.3	149.4	165.2	186.2	210.9
52°	156.2	133.4	136.1	150.4	168.8	190.6
52.5°	141.9	121.8	123.5	136.4	152.3	171.2
53°	128.4	110.7	112.4	122.8	136.6	153.3
53.5°	116.3	100.5	101.5	110.0	122.1	136.4
54°	104.6	90.8	91.3	98.3	108.7	121.3
54.5°	93.5	82.1	82.6	87.2	96.4	107.5
55°	83.3	73.6	73.9	78.0	84.0	94.9
55.5°	73.1	65.1	65.4	68.8	74.6	82.8
56°	63.9	56.7	56.7	59.6	65.1	73.4
56.5°	55.5	48.2	48.0	50.6	55.7	63.7
57°	47.5	39.5	39.2	41.4	46.3	54.3
57.5°	38.8	30.8	30.8	32.5	37.3	44.8
58°	32.9	23.5	23.3	24.7	28.6	35.8
58.5°	27.1	17.7	17.2	18.2	21.3	27.1
59°	21.3	13.1	12.8	13.6	15.7	19.9
59.5°	15.5	9.9	9.7	10.2	11.6	14.5
60°	9.7	8.5	8.2	8.7	8.7	10.9
60.5°	7.5	6.8	6.8	7.3	7.5	8.0
61°	6.1	5.3	5.1	6.1	6.1	6.8
61.5°	4.8	3.9	3.6	4.6	4.8	5.6
62°	3.9	3.1	3.1	3.1	3.6	4.4
62.5°	3.1	2.7	2.4	2.7	2.9	3.1
63°	2.7	2.2	2.2	2.2	2.4	2.7
63.5°	2.2	1.9	1.7	1.7	1.9	2.2
64°	1.9	1.7	1.5	1.5	1.7	1.7
64.5°	1.7	1.5	1.2	1.2	1.5	1.5
65°	1.5	1.2	1.0	1.2	1.2	1.2
65.5°	1.2	1.0	1.0	1.0	1.0	1.2
66°	1.0	1.0	0.7	0.7	1.0	1.0



TEST NUMBER: P776080

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.7	0.7	0.5	0.5	0.7	0.7
68°	0.7	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	0.2	0.2	0.2	0.2
70.5°	0.5	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.0	0.0	0.2
75.5°	0.2	0.0	0.0	0.0	0.0	0.0
76°	0.2	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: P776080

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

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

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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21.5°	1808.4	1837.5	1861.2	1866.8	1861.5	1848.9	1822.5	1787.4	1759.8	1740.4	1725.1
22°	1791.0	1820.1	1843.8	1849.6	1845.0	1832.2	1804.8	1769.9	1740.6	1721.0	1705.3



44°	617.1	664.3	705.0	722.2	736.7	710.1	678.9	639.9	592.9	554.6	520.7
44.5°	586.1	632.4	670.4	689.0	703.3	676.9	646.2	607.9	564.5	525.8	493.1



66.5°	0.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0
67°	0.7	1.0	1.0	1.0	1.2	1.2	1.2	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°	1712.3	1694.8	1711.8	1742.6	1778.2	1808.4
22°	1693.2	1675.7	1692.9	1723.4	1759.3	1791.0



44°	509.1	491.2	500.4	520.5	560.9	617.1
44.5°	481.0	462.1	470.8	489.5	530.4	586.1

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66.5°	1.0	0.7	0.7	0.7	0.7	0.7
67°	0.7	0.7	0.7	0.7	0.7	0.7

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



(END OF REPORT)