

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: P776730

Luminaire Tested: HCDJBL54050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B018)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS4050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-2700K  
Description: 6 INCH SQUARE MEDIUM LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4043.4 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.19 / 1.3  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

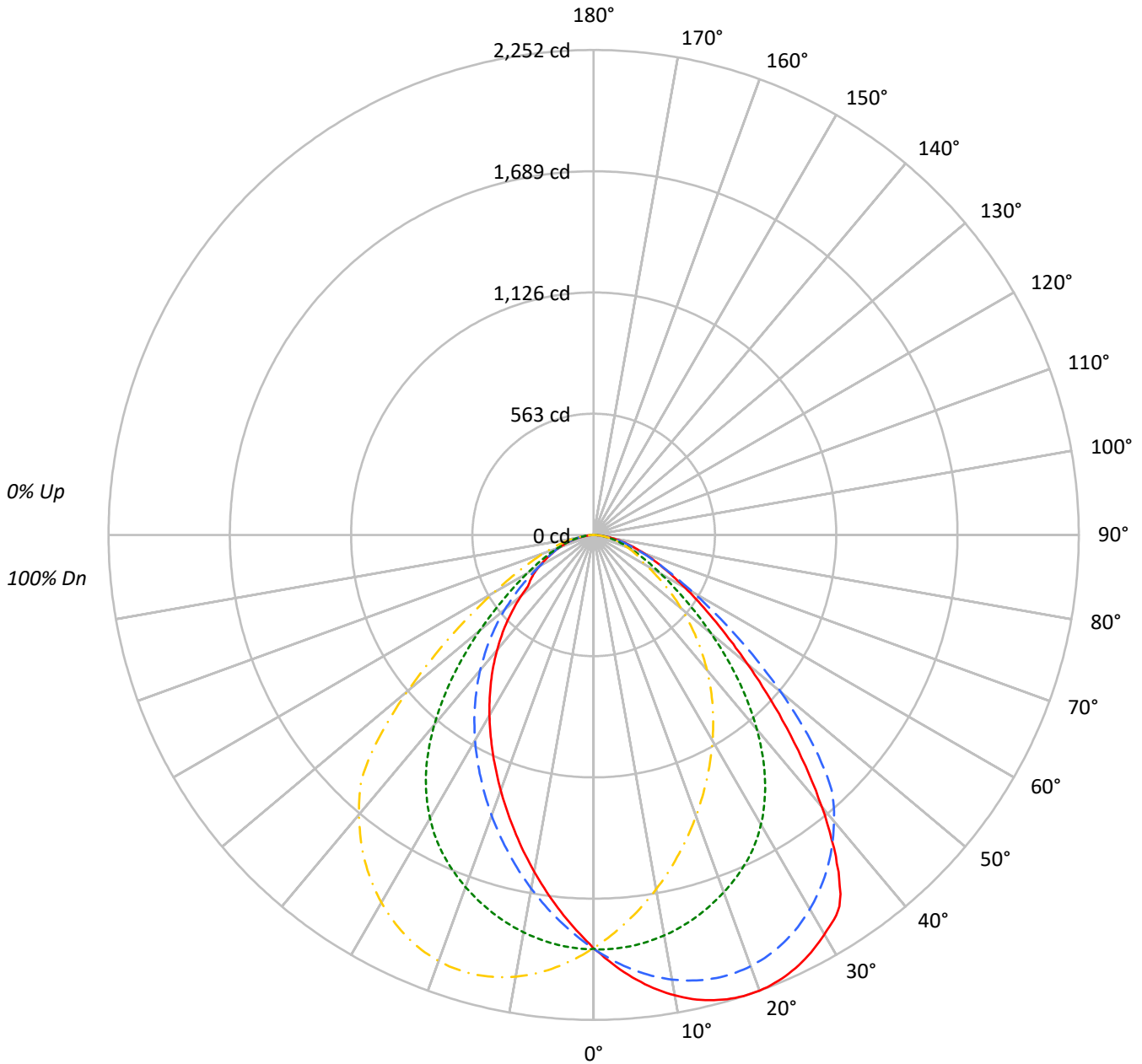
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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															
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87															
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76				76															
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66				66															
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58				58															
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51				51															
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	45				45															
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41				41															
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37				37															
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33				33															
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31				31															

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

	0°	90°	180°	270°
0°	82723	82723	82723	82723
5°	89146	82901	75869	82585
10°	94920	82543	69432	81927
15°	99660	81883	63349	80947
20°	103170	80907	57791	79720
25°	105413	79602	52728	78129
30°	106512	77210	48086	75554
35°	104697	72881	43652	71373
40°	92665	66249	39197	64636
45°	77184	57565	34525	55897
50°	62441	47718	29312	46225
55°	50571	38186	26618	37292
60°	42195	30966	25007	30656
65°	35892	25775	22800	25959
70°	31220	22093	20998	22496
75°	27216	19114	19031	19796
80°	22390	16389	15943	17183
85°	14425	12597	8793	13980

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 91036 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.5	4.5
10°-20°	515.2	12.7
20°-30°	764.2	18.9
30°-40°	873.3	21.6
40°-50°	759.3	18.8
50°-60°	494.0	12.2
60°-70°	281.5	7.0
70°-80°	141.0	3.5
80°-90°	33.5	0.8
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°	1460.9	36.1
0°-40°	2334.2	57.7
0°-60°	3587.4	88.7
0°-90°	4043.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4043.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1921	1921	1921	1921	1921	
5°	2063	1918	1755	1911	2063	200
15°	2236	1837	1421	1816	2236	633
25°	2219	1676	1110	1645	2219	1022
35°	1992	1387	830	1358	1992	1223
45°	1268	945	567	918	1268	979
55°	674	509	355	497	674	613
65°	352	253	224	255	352	353
75°	164	115	114	119	164	174
85°	29	26	18	28	29	38
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°	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3
0.5°	1933.1	1933.1	1933.1	1930.9	1925.4	1921.3	1907.1	1901.7	1901.7	1904.0	1909.9
1°	1948.2	1947.3	1943.6	1936.8	1925.4	1915.4	1896.2	1887.1	1885.7	1888.9	1898.5
1.5°	1963.7	1961.8	1954.6	1942.7	1925.4	1909.0	1884.4	1872.5	1869.3	1873.9	1886.6
2°	1978.7	1976.0	1965.0	1948.2	1924.9	1902.6	1873.0	1857.5	1853.4	1859.3	1874.8
2.5°	1993.3	1989.2	1976.0	1953.6	1924.5	1895.8	1861.6	1842.4	1837.0	1843.8	1862.5
3°	2007.9	2002.9	1986.0	1958.7	1923.6	1889.4	1849.3	1827.4	1821.0	1828.7	1850.2
3.5°	2022.0	2016.1	1995.6	1963.7	1922.6	1882.5	1837.4	1812.3	1804.6	1813.2	1837.9
4°	2035.7	2028.9	2005.6	1968.2	1920.8	1874.8	1825.1	1797.3	1788.6	1798.2	1825.6
4.5°	2049.4	2041.2	2014.7	1972.8	1919.5	1867.9	1813.2	1781.3	1771.8	1782.3	1813.2
5°	2062.6	2053.5	2023.8	1977.3	1918.1	1860.2	1800.9	1766.3	1755.4	1766.8	1800.5
5.5°	2074.9	2065.3	2033.0	1981.0	1915.8	1852.5	1788.2	1750.8	1739.0	1751.3	1787.7
6°	2087.2	2076.7	2041.2	1984.6	1913.5	1844.2	1775.4	1735.3	1722.5	1735.3	1774.5
6.5°	2099.5	2087.7	2049.4	1988.3	1911.3	1836.5	1763.1	1719.8	1705.7	1719.8	1761.7
7°	2110.9	2098.6	2057.1	1991.5	1908.5	1828.7	1750.3	1703.9	1688.8	1703.9	1748.5
7.5°	2121.8	2108.6	2064.9	1994.7	1905.8	1819.6	1737.1	1687.9	1671.9	1687.9	1735.3
8°	2132.3	2118.6	2071.7	1997.4	1902.6	1811.4	1723.9	1672.4	1655.5	1671.9	1722.1
8.5°	2142.8	2127.8	2078.5	1999.7	1899.4	1802.3	1711.1	1656.4	1638.7	1656.4	1708.4
9°	2152.8	2137.3	2084.9	2001.5	1895.8	1793.6	1697.9	1641.0	1621.3	1640.0	1695.2
9.5°	2162.4	2146.0	2090.8	2003.3	1892.1	1785.0	1684.7	1624.5	1604.9	1624.1	1681.5
10°	2171.1	2154.2	2096.8	2005.1	1888.0	1775.4	1671.0	1608.6	1588.1	1608.1	1667.8
10.5°	2179.7	2162.4	2102.2	2006.5	1884.4	1766.3	1657.4	1592.6	1571.7	1592.2	1654.2
11°	2187.9	2169.7	2106.8	2007.4	1879.8	1756.7	1643.7	1576.7	1554.8	1575.8	1640.5
11.5°	2195.7	2176.5	2111.8	2008.3	1875.2	1746.7	1630.0	1561.2	1537.5	1560.3	1626.8
12°	2203.0	2183.4	2115.9	2008.3	1870.2	1736.7	1616.3	1544.3	1521.1	1543.9	1612.7
12.5°	2209.8	2189.3	2119.6	2008.8	1865.2	1726.6	1602.7	1528.8	1504.7	1527.9	1599.0
13°	2215.7	2195.2	2123.2	2008.3	1860.2	1717.1	1588.5	1512.9	1487.8	1511.5	1584.9
13.5°	2221.7	2200.2	2126.4	2007.9	1854.3	1706.6	1574.4	1496.9	1470.9	1496.0	1570.8
14°	2226.7	2205.3	2129.1	2007.4	1848.8	1696.1	1560.7	1481.0	1454.5	1479.6	1556.6
14.5°	2231.7	2209.4	2131.4	2006.5	1842.9	1685.6	1546.1	1464.5	1437.7	1463.6	1542.5
15°	2235.8	2213.5	2133.2	2005.1	1837.0	1674.7	1532.0	1448.6	1421.2	1447.7	1528.4
15.5°	2239.9	2216.7	2135.1	2003.3	1830.6	1664.2	1517.9	1433.1	1404.8	1432.2	1513.8
16°	2243.1	2219.8	2136.0	2001.5	1824.2	1653.3	1503.7	1417.1	1388.4	1415.8	1499.6
16.5°	2245.8	2222.1	2136.9	1999.2	1817.8	1642.3	1489.6	1401.2	1372.5	1400.3	1485.5
17°	2248.1	2223.9	2137.3	1996.5	1810.5	1630.9	1475.0	1385.2	1356.1	1384.3	1471.4
17.5°	2249.9	2225.3	2137.3	1993.8	1803.7	1620.0	1460.9	1369.7	1340.1	1368.4	1456.8
18°	2251.3	2226.2	2136.9	1991.0	1796.4	1609.0	1446.8	1353.8	1323.7	1352.9	1442.2
18.5°	2252.2	2227.1	2136.0	1987.4	1789.1	1597.2	1432.2	1338.3	1308.2	1337.4	1428.1
19°	2252.2	2227.1	2134.6	1983.7	1781.3	1585.3	1418.1	1322.8	1292.7	1321.9	1414.0
19.5°	2252.2	2226.7	2133.2	1980.1	1774.0	1573.9	1403.5	1307.3	1276.8	1306.4	1399.8
20°	2251.7	2225.8	2131.0	1975.5	1765.8	1562.5	1388.9	1291.8	1261.3	1290.9	1385.2
20.5°	2250.4	2224.4	2128.7	1971.4	1758.1	1550.7	1374.8	1276.3	1245.3	1275.8	1370.6
21°	2249.0	2222.6	2125.5	1966.4	1749.4	1538.4	1360.2	1261.3	1230.3	1260.3	1356.5



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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°	2240.8	2213.9	2114.5	1950.5	1723.5	1502.4	1317.3	1216.1	1184.2	1215.7	1313.2
23°	2237.6	2210.3	2110.0	1944.5	1714.8	1490.1	1302.7	1201.1	1169.2	1200.6	1299.1
23.5°	2233.5	2206.2	2105.0	1938.6	1705.2	1477.8	1288.6	1186.0	1154.1	1186.0	1285.0
24°	2229.0	2201.2	2100.0	1931.8	1695.6	1465.0	1274.0	1171.5	1139.5	1171.0	1270.4
24.5°	2223.9	2196.1	2094.0	1925.4	1686.1	1452.7	1259.9	1156.9	1125.0	1156.0	1256.2
25°	2218.9	2190.7	2088.1	1918.1	1675.6	1439.5	1245.8	1141.8	1109.9	1141.4	1241.7
25.5°	2213.0	2184.3	2081.7	1910.8	1665.6	1427.2	1231.2	1127.2	1095.3	1127.2	1228.0
26°	2206.6	2178.4	2074.9	1902.6	1654.6	1414.0	1217.0	1112.7	1080.7	1112.2	1213.4
26.5°	2199.8	2171.1	2067.6	1894.8	1643.7	1400.7	1202.9	1098.5	1066.2	1098.1	1199.3
27°	2192.9	2164.2	2060.3	1886.6	1632.3	1387.5	1188.8	1083.9	1052.0	1083.5	1185.1
27.5°	2185.7	2156.5	2052.1	1877.5	1620.0	1374.3	1174.2	1069.4	1037.9	1069.4	1171.5
28°	2177.4	2148.7	2043.4	1867.9	1607.2	1360.6	1160.1	1054.8	1023.3	1054.8	1157.3
28.5°	2169.2	2140.1	2035.2	1858.4	1594.9	1346.5	1146.4	1040.6	1009.2	1040.6	1143.2
29°	2160.6	2131.0	2026.1	1847.9	1581.2	1332.4	1131.8	1026.5	995.5	1026.5	1129.1
29.5°	2151.5	2121.8	2016.5	1837.0	1567.6	1318.2	1118.1	1012.4	981.4	1012.8	1114.9
30°	2142.4	2112.3	2007.0	1825.6	1553.0	1303.2	1103.5	998.7	967.2	998.2	1100.8
30.5°	2132.8	2102.2	1996.9	1813.7	1538.4	1288.1	1089.4	984.1	953.1	984.6	1087.1
31°	2123.7	2092.2	1986.5	1801.4	1523.3	1273.6	1075.3	970.0	939.4	970.9	1073.0
31.5°	2114.5	2081.7	1975.5	1787.7	1507.9	1258.1	1061.1	956.8	925.8	956.8	1058.9
32°	2105.4	2070.8	1964.6	1774.0	1491.9	1242.6	1047.0	942.6	912.1	943.1	1044.7
32.5°	2094.5	2060.3	1952.7	1759.5	1475.0	1227.1	1032.9	928.5	898.4	929.4	1031.1
33°	2082.2	2049.4	1941.3	1744.4	1457.7	1211.1	1018.8	915.3	884.7	915.7	1016.9
33.5°	2067.1	2038.9	1929.5	1728.9	1440.8	1195.2	1004.6	901.6	871.1	902.5	1002.8
34°	2043.9	2027.9	1917.2	1713.0	1423.1	1178.7	990.0	887.9	857.9	888.4	988.7
34.5°	2023.4	2016.1	1904.0	1695.6	1405.3	1162.3	975.9	873.8	844.2	875.2	974.5
35°	1991.9	2002.0	1890.7	1677.9	1386.6	1145.5	961.8	860.6	830.5	861.5	960.9
35.5°	1962.8	1986.0	1877.1	1659.6	1367.9	1129.1	948.1	846.9	817.3	848.3	946.7
36°	1934.5	1963.7	1862.9	1640.5	1348.3	1112.2	933.5	833.7	804.1	835.1	932.6
36.5°	1898.0	1941.8	1848.3	1621.3	1328.3	1095.3	918.9	820.0	790.4	821.4	918.0
37°	1868.4	1913.1	1833.3	1601.3	1308.2	1078.0	904.8	806.3	777.2	807.7	904.3
37.5°	1832.4	1882.5	1817.8	1579.9	1287.7	1060.7	890.2	793.1	764.0	794.5	889.8
38°	1795.0	1857.0	1802.3	1558.0	1265.8	1043.4	876.1	779.5	750.7	781.3	875.6
38.5°	1761.3	1821.0	1785.9	1536.1	1245.3	1026.0	861.5	766.2	737.5	768.1	861.5
39°	1721.2	1790.5	1769.9	1513.8	1223.4	1008.7	846.9	753.0	723.8	754.8	847.8
39.5°	1686.5	1757.6	1752.6	1490.1	1201.5	991.0	832.3	739.3	710.6	741.6	833.2
40°	1648.7	1719.8	1735.3	1465.5	1178.7	972.7	817.7	726.1	697.4	728.4	818.7
40.5°	1606.8	1689.7	1717.5	1440.8	1156.4	954.9	803.6	712.9	684.6	715.2	804.5
41°	1572.6	1651.0	1701.1	1415.8	1133.6	937.2	788.6	699.7	671.4	702.0	790.8
41.5°	1531.1	1614.5	1682.9	1389.3	1110.4	918.9	774.0	686.5	658.7	689.2	775.8
42°	1493.7	1580.3	1662.8	1362.4	1087.1	901.2	759.9	673.2	645.4	676.0	761.7
42.5°	1456.3	1540.7	1641.4	1336.0	1063.9	882.9	745.7	660.5	632.2	662.8	748.0
43°	1414.0	1507.4	1619.1	1308.7	1040.2	865.1	731.1	647.3	619.0	650.0	733.9
43.5°	1381.1	1469.6	1589.9	1280.4	1016.5	846.9	716.1	634.0	606.2	636.8	719.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1267.6	1356.5	1495.1	1195.6	945.4	792.2	673.2	594.8	567.0	598.0	677.3
45.5°	1227.5	1322.8	1463.6	1166.4	921.2	774.4	659.1	581.6	554.3	585.3	663.2
46°	1197.0	1286.3	1427.6	1137.7	898.0	756.2	644.5	568.9	541.1	572.1	649.1
46.5°	1157.8	1247.6	1391.2	1108.1	874.3	738.4	630.4	555.6	527.8	559.3	634.5
47°	1125.4	1216.1	1357.4	1078.5	850.6	720.7	615.8	542.4	515.1	546.1	620.8
47.5°	1092.1	1176.9	1318.2	1049.3	826.9	702.9	601.7	529.7	502.3	533.8	606.7
48°	1054.8	1146.4	1282.7	1020.1	803.6	685.6	588.0	516.4	489.6	520.5	592.6
48.5°	1027.9	1111.7	1246.2	990.5	780.4	667.3	573.9	503.7	476.8	507.8	578.4
49°	990.0	1076.2	1207.0	961.3	757.1	650.0	559.3	490.5	463.6	495.0	564.8
49.5°	964.5	1047.0	1172.8	931.7	734.8	632.7	545.6	477.7	450.8	482.3	550.6
50°	932.2	1009.6	1134.5	902.5	712.4	615.8	531.5	464.9	437.6	469.5	537.0
50.5°	902.5	983.2	1098.1	873.4	689.2	598.5	517.8	451.7	424.8	456.7	523.3
51°	876.5	948.6	1062.5	844.2	667.3	581.6	504.1	439.4	412.5	444.0	509.2
51.5°	843.3	921.2	1024.7	815.9	646.4	565.7	490.5	426.2	399.3	431.2	495.9
52°	822.3	892.5	992.3	787.7	625.4	548.8	476.8	413.4	387.4	418.9	482.3
52.5°	791.3	861.5	956.8	759.9	604.0	532.9	464.0	400.7	381.5	406.1	469.0
53°	769.9	836.9	923.0	732.5	584.4	516.9	450.3	390.6	376.1	395.7	455.8
53.5°	744.8	804.1	889.8	705.6	564.3	500.9	437.1	380.6	370.6	385.2	442.6
54°	719.7	782.2	855.6	679.2	545.6	485.9	424.4	371.0	365.6	374.7	429.8
54.5°	699.2	752.6	825.9	653.6	526.9	470.4	411.6	361.0	360.1	364.2	417.5
55°	673.7	729.8	793.1	629.0	508.7	455.8	398.8	351.4	354.6	353.7	404.8
55.5°	656.4	705.2	764.9	605.3	491.4	441.7	386.5	346.0	348.7	348.2	392.5
56°	630.9	680.1	733.9	582.1	474.1	427.1	374.2	340.5	342.8	343.2	380.6
56.5°	614.9	659.1	706.5	559.7	458.1	413.4	361.5	334.6	336.9	337.3	368.8
57°	593.5	633.1	679.2	538.3	442.1	399.8	349.2	329.1	330.5	331.8	356.9
57.5°	576.6	614.9	651.4	517.4	427.1	387.4	338.2	323.2	324.1	325.9	344.6
58°	558.4	590.3	626.3	497.8	412.5	374.7	326.4	317.3	317.7	320.0	333.7
58.5°	540.1	573.4	600.8	478.6	398.4	361.9	315.0	311.3	310.9	314.1	321.8
59°	524.2	550.6	578.0	460.8	385.2	349.6	304.0	305.4	304.0	308.1	310.9
59.5°	506.0	534.7	553.8	443.1	372.4	338.2	293.1	299.0	297.2	301.8	300.4
60°	490.0	514.2	532.4	426.6	359.6	327.3	282.6	293.1	290.4	295.4	289.9
60.5°	473.6	498.7	510.5	410.7	346.4	316.3	272.6	286.3	283.5	289.0	279.9
61°	458.1	479.5	490.9	395.2	334.6	305.9	263.5	280.3	276.7	282.6	270.3
61.5°	443.5	464.0	470.4	380.6	323.2	295.4	257.5	273.5	269.4	276.2	261.6
62°	429.4	447.2	453.1	366.5	312.2	285.8	252.5	267.1	262.6	269.4	255.3
62.5°	414.8	432.6	433.9	353.3	301.3	276.2	247.1	260.7	255.7	263.0	250.2
63°	402.0	416.6	417.5	340.5	291.3	267.1	241.6	253.9	248.9	256.2	244.8
63.5°	388.4	402.9	400.7	327.7	281.2	258.0	236.6	247.5	242.5	249.8	239.8
64°	376.5	387.9	385.2	315.9	271.7	249.3	231.1	241.1	236.1	243.0	234.7
64.5°	363.3	375.1	369.7	304.5	262.1	241.1	225.6	234.7	229.7	237.0	229.3
65°	352.3	361.5	355.5	293.5	253.0	232.9	220.2	228.4	223.8	230.6	224.3
65.5°	340.5	349.6	341.9	283.5	244.3	225.2	215.1	222.4	217.9	224.3	218.8
66°	329.6	336.4	328.6	273.0	235.7	217.4	209.2	216.5	212.0	217.9	213.3





TEST NUMBER: P776730

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	296.7	302.2	291.3	244.3	211.5	196.0	192.8	198.7	194.6	200.1	196.9
68°	286.7	290.8	279.4	235.2	203.8	189.2	187.3	193.3	189.2	194.6	191.4
68.5°	276.7	280.3	268.9	226.5	196.5	182.8	181.9	187.8	183.2	188.7	186.0
69°	266.7	270.3	257.5	217.9	189.6	176.4	176.4	181.9	177.8	183.2	180.0
69.5°	257.1	259.8	247.5	209.7	181.9	170.5	170.9	176.4	172.3	177.3	174.6
70°	248.0	250.2	237.9	201.9	175.5	164.1	165.5	170.9	166.8	171.8	169.1
70.5°	238.4	240.2	227.9	193.7	168.7	158.6	160.4	165.5	161.4	166.4	164.1
71°	229.3	231.1	218.8	186.4	162.3	152.7	155.0	160.0	156.3	160.9	158.6
71.5°	220.6	222.0	209.7	179.1	155.9	147.2	149.5	155.0	150.9	155.4	153.2
72°	212.0	212.9	200.6	171.8	149.5	141.8	144.5	149.5	145.4	150.0	147.7
72.5°	203.3	204.2	191.9	165.0	143.6	136.3	139.5	144.0	140.4	144.5	142.7
73°	194.6	195.1	183.7	158.6	137.7	131.3	134.5	138.6	134.9	139.0	137.7
73.5°	186.4	186.9	175.5	151.8	131.7	126.7	129.5	133.6	129.9	134.0	132.2
74°	178.2	178.7	167.3	145.4	125.8	121.7	124.4	128.1	124.9	128.5	127.2
74.5°	170.0	170.5	160.0	139.0	120.3	117.6	119.4	123.1	119.4	123.5	122.2
75°	163.6	163.6	152.7	132.6	114.9	113.5	114.4	117.6	114.4	118.1	117.1
75.5°	155.9	155.9	145.4	126.7	109.9	109.4	109.4	112.6	109.4	113.0	112.1
76°	148.1	148.1	138.1	120.8	104.4	105.3	104.8	107.1	104.4	108.0	107.1
76.5°	139.9	140.4	130.8	114.9	99.4	100.7	99.8	102.1	99.4	102.6	102.1
77°	132.2	132.6	123.5	108.9	94.4	96.6	94.8	97.1	94.4	97.5	97.1
77.5°	125.4	125.8	116.7	103.0	89.3	92.1	89.8	92.1	89.3	92.5	92.1
78°	118.1	118.5	110.3	97.5	84.3	88.0	85.2	86.6	83.9	87.5	87.5
78.5°	110.8	111.7	103.5	92.1	79.8	83.4	80.2	81.6	78.9	82.5	82.5
79°	103.9	104.4	97.1	86.6	75.2	78.9	75.7	76.6	73.8	77.0	77.5
79.5°	97.1	98.0	90.7	81.6	70.7	74.8	71.1	71.6	69.3	72.0	72.5
80°	90.3	91.2	84.3	76.1	66.1	70.2	66.5	66.5	64.3	67.0	67.9
80.5°	83.9	84.8	78.4	71.1	61.5	66.1	62.0	61.1	59.3	62.0	63.4
81°	77.5	78.4	72.5	66.1	57.4	61.5	57.4	56.5	54.7	57.0	58.3
81.5°	71.1	72.0	66.5	61.1	53.3	57.4	52.9	51.1	49.7	52.0	53.8
82°	64.7	65.6	61.1	56.5	48.8	53.3	48.3	46.5	45.1	47.4	49.7
82.5°	58.8	59.7	55.6	52.0	45.1	49.2	44.2	41.9	40.1	42.8	45.1
83°	52.9	53.8	50.6	47.4	41.0	45.1	40.1	37.4	35.6	37.8	41.5
83.5°	46.5	47.4	45.1	42.8	37.4	41.0	36.0	33.3	31.0	33.3	37.4
84°	40.6	41.5	40.6	38.3	33.3	36.9	32.4	28.7	26.4	28.7	33.7
84.5°	34.6	36.0	36.0	34.2	29.6	32.8	28.3	24.2	21.9	24.2	29.6
85°	29.2	30.5	31.9	30.1	25.5	28.7	24.2	20.5	17.8	20.1	26.0
85.5°	23.2	25.1	27.3	26.0	21.9	24.6	20.5	17.3	15.0	16.9	22.3
86°	19.1	21.0	23.2	21.9	18.7	21.0	16.9	14.6	12.8	14.1	18.7
86.5°	16.0	17.3	19.1	18.2	15.0	16.9	13.2	11.9	10.5	11.4	15.5
87°	13.2	14.1	15.5	14.1	11.9	13.2	10.0	9.1	7.7	9.1	12.3
87.5°	10.0	10.5	11.9	10.5	8.7	9.6	6.4	5.9	5.5	6.4	8.7
88°	7.3	7.3	8.2	6.8	5.5	5.9	3.2	3.2	3.2	3.6	5.5
88.5°	4.1	4.1	4.6	3.2	2.3	2.7	0.9	0.9	1.4	1.4	2.3



TEST NUMBER: P776730

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-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: P776730

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1921.3	1921.3	1921.3	1921.3	1921.3	1921.3
0.5°	1918.1	1924.9	1932.2	1929.0	1930.9	1933.1
1°	1911.3	1924.0	1937.2	1940.0	1944.5	1948.2
1.5°	1904.4	1923.1	1942.7	1950.0	1958.7	1963.7
2°	1897.1	1922.2	1947.3	1960.0	1972.3	1978.7
2.5°	1890.3	1920.8	1951.8	1970.1	1985.5	1993.3
3°	1882.5	1919.0	1955.9	1979.6	1998.8	2007.9
3.5°	1874.8	1917.2	1960.0	1989.2	2012.0	2022.0
4°	1867.0	1915.4	1963.7	1998.3	2024.3	2035.7
4.5°	1858.8	1913.1	1967.8	2007.0	2036.6	2049.4
5°	1850.6	1910.8	1971.0	2015.6	2048.5	2062.6
5.5°	1842.4	1907.6	1974.2	2023.8	2060.3	2074.9
6°	1833.8	1904.9	1976.9	2032.0	2071.2	2087.2
6.5°	1825.1	1901.7	1979.2	2039.3	2081.7	2099.5
7°	1816.4	1898.5	1981.9	2046.6	2092.2	2110.9
7.5°	1807.3	1894.8	1983.7	2053.5	2102.2	2121.8
8°	1798.2	1891.2	1985.5	2060.3	2111.8	2132.3
8.5°	1789.1	1887.1	1986.9	2066.2	2120.9	2142.8
9°	1779.5	1883.0	1988.3	2072.2	2129.6	2152.8
9.5°	1769.9	1878.4	1989.2	2077.6	2138.2	2162.4
10°	1760.4	1873.9	1989.7	2083.1	2146.0	2171.1
10.5°	1750.3	1868.9	1990.1	2087.7	2153.3	2179.7
11°	1740.3	1863.8	1990.1	2092.2	2160.6	2187.9
11.5°	1730.3	1858.8	1989.7	2095.9	2167.4	2195.7
12°	1720.3	1852.9	1989.2	2099.5	2173.3	2203.0
12.5°	1709.8	1847.4	1988.7	2103.2	2179.3	2209.8
13°	1699.3	1841.5	1987.4	2105.9	2184.7	2215.7
13.5°	1688.4	1835.6	1986.0	2108.6	2189.8	2221.7
14°	1677.4	1829.2	1984.2	2110.9	2193.9	2226.7
14.5°	1666.5	1822.8	1982.4	2112.3	2198.0	2231.7
15°	1655.5	1816.0	1980.1	2114.1	2201.6	2235.8
15.5°	1644.6	1809.1	1977.8	2115.0	2204.3	2239.9
16°	1633.7	1802.3	1974.6	2115.5	2207.1	2243.1
16.5°	1622.3	1795.0	1971.4	2115.5	2208.9	2245.8
17°	1610.4	1787.7	1968.2	2115.0	2210.3	2248.1
17.5°	1599.0	1780.0	1964.6	2114.5	2211.6	2249.9
18°	1587.6	1772.2	1960.5	2113.6	2212.1	2251.3
18.5°	1575.8	1764.5	1955.9	2112.3	2212.1	2252.2
19°	1564.4	1756.3	1951.8	2110.0	2212.1	2252.2
19.5°	1552.1	1748.1	1946.8	2107.7	2211.2	2252.2
20°	1540.2	1739.9	1941.8	2105.4	2209.8	2251.7
20.5°	1528.4	1731.2	1936.3	2102.2	2208.0	2250.4
21°	1516.1	1722.1	1930.9	2098.6	2205.7	2249.0

TEST NUMBER: P776730

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1479.1	1694.7	1912.2	2085.8	2196.1	2240.8
23°	1466.8	1685.2	1905.3	2080.8	2192.0	2237.6
23.5°	1454.1	1675.6	1898.0	2075.3	2187.5	2233.5
24°	1441.8	1665.6	1890.7	2069.4	2182.5	2229.0
24.5°	1428.5	1655.1	1883.0	2063.5	2177.0	2223.9
25°	1415.8	1644.6	1875.2	2056.7	2171.1	2218.9
25.5°	1403.0	1633.7	1866.6	2049.8	2164.7	2213.0
26°	1389.8	1622.7	1858.4	2042.1	2157.8	2206.6
26.5°	1376.6	1611.3	1849.3	2034.8	2150.6	2199.8
27°	1363.4	1599.5	1840.1	2026.6	2143.7	2192.9
27.5°	1349.7	1586.7	1830.1	2017.9	2135.5	2185.7
28°	1335.6	1574.4	1820.1	2009.3	2127.3	2177.4
28.5°	1321.9	1561.2	1809.6	2000.1	2118.2	2169.2
29°	1307.7	1547.5	1798.2	1990.6	2109.5	2160.6
29.5°	1293.2	1533.8	1786.8	1981.0	2100.0	2151.5
30°	1278.1	1519.7	1774.5	1970.5	2090.4	2142.4
30.5°	1263.5	1504.7	1761.7	1960.0	2079.9	2132.8
31°	1248.5	1490.1	1748.5	1949.1	2069.4	2123.7
31.5°	1233.4	1474.6	1734.8	1938.1	2058.9	2114.5
32°	1218.4	1459.1	1720.7	1926.3	2047.5	2105.4
32.5°	1202.5	1442.7	1705.7	1914.4	2036.6	2094.5
33°	1187.0	1426.7	1690.6	1902.6	2025.2	2082.2
33.5°	1171.5	1410.3	1674.7	1890.3	2013.8	2067.1
34°	1155.5	1393.0	1658.3	1877.5	2003.3	2043.9
34.5°	1139.1	1375.7	1641.9	1864.3	1991.9	2023.4
35°	1123.1	1357.9	1624.5	1850.6	1978.3	1991.9
35.5°	1107.2	1338.7	1606.3	1837.0	1963.7	1962.8
36°	1090.3	1320.1	1588.1	1822.4	1944.1	1934.5
36.5°	1073.9	1300.0	1569.4	1807.8	1920.4	1898.0
37°	1057.5	1279.9	1549.3	1792.7	1897.6	1868.4
37.5°	1040.6	1259.0	1528.8	1777.2	1865.7	1832.4
38°	1023.8	1237.5	1506.9	1761.3	1838.8	1795.0
38.5°	1005.5	1216.1	1484.1	1744.4	1808.2	1761.3
39°	988.2	1194.2	1461.4	1728.5	1773.1	1721.2
39.5°	970.9	1172.4	1437.2	1712.1	1745.8	1686.5
40°	953.1	1150.0	1411.7	1694.7	1709.8	1648.7
40.5°	935.3	1127.2	1386.1	1676.5	1675.1	1606.8
41°	917.1	1104.0	1360.2	1659.6	1643.2	1572.6
41.5°	899.3	1082.1	1334.2	1642.3	1605.4	1531.1
42°	881.6	1058.9	1307.3	1624.1	1571.7	1493.7
42.5°	863.3	1035.2	1280.4	1605.4	1535.7	1456.3
43°	845.5	1011.9	1252.6	1585.3	1497.4	1414.0
43.5°	827.3	988.7	1224.8	1563.5	1465.0	1381.1



TEST NUMBER: P776730

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	773.5	918.0	1139.5	1481.0	1356.5	1267.6
45.5°	755.3	894.8	1111.3	1446.3	1316.9	1227.5
46°	737.1	871.5	1082.1	1414.4	1285.4	1197.0
46.5°	719.3	848.3	1053.4	1381.1	1248.5	1157.8
47°	702.0	825.5	1024.7	1343.3	1214.8	1125.4
47.5°	684.6	801.8	995.5	1309.6	1181.0	1092.1
48°	666.9	779.0	966.8	1272.6	1143.2	1054.8
48.5°	649.5	756.7	938.5	1234.8	1114.9	1027.9
49°	632.7	733.9	909.8	1200.6	1078.5	990.0
49.5°	616.3	712.0	881.1	1161.9	1049.3	964.5
50°	598.9	690.1	852.8	1125.9	1018.3	932.2
50.5°	581.6	668.2	824.6	1090.8	983.7	902.5
51°	565.7	647.3	796.8	1053.9	957.2	876.5
51.5°	549.7	626.3	769.9	1020.6	922.6	843.3
52°	533.8	606.7	743.4	984.6	898.4	822.3
52.5°	517.4	587.1	717.0	950.4	868.8	791.3
53°	502.3	567.5	690.6	918.5	840.5	769.9
53.5°	487.3	548.8	666.4	883.8	815.0	744.8
54°	472.2	531.0	641.8	853.3	784.5	719.7
54.5°	458.1	514.2	618.5	820.9	763.0	699.2
55°	443.5	496.8	595.8	791.3	733.4	673.7
55.5°	429.8	480.4	574.3	762.1	712.9	656.4
56°	416.6	464.5	553.4	732.0	686.5	630.9
56.5°	403.4	449.9	533.3	706.1	665.0	614.9
57°	391.5	434.9	513.7	678.3	642.7	593.5
57.5°	379.2	420.3	495.5	653.2	619.5	576.6
58°	367.4	406.6	477.7	626.8	600.3	558.4
58.5°	355.5	393.4	460.4	603.5	577.5	540.1
59°	343.2	380.6	444.4	580.3	560.7	524.2
59.5°	332.3	367.8	428.9	557.5	539.2	506.0
60°	321.8	356.0	413.9	536.0	523.7	490.0
60.5°	311.8	344.1	399.3	514.6	503.2	473.6
61°	301.8	332.7	385.2	495.5	488.6	458.1
61.5°	292.2	322.3	371.9	475.4	469.9	443.5
62°	282.6	311.8	359.2	458.1	455.8	429.4
62.5°	273.5	301.3	346.9	440.3	438.5	414.8
63°	264.8	291.3	335.0	423.5	424.8	402.0
63.5°	256.2	281.7	323.2	407.0	409.3	388.4
64°	248.0	272.6	311.8	392.0	396.1	376.5
64.5°	240.2	263.5	301.3	376.5	381.1	363.3
65°	232.5	254.8	290.8	362.4	369.2	352.3
65.5°	224.7	246.1	280.8	348.7	355.1	340.5
66°	217.4	237.9	270.8	335.5	344.1	329.6



TEST NUMBER: P776730

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	196.5	214.2	243.4	299.0	308.1	296.7
68°	190.1	206.5	234.3	287.6	297.7	286.7
68.5°	183.7	199.2	226.1	276.7	286.7	276.7
69°	177.3	192.4	217.9	266.2	276.2	266.7
69.5°	171.4	185.5	209.7	255.7	266.2	257.1
70°	165.5	178.7	201.9	245.7	255.7	248.0
70.5°	159.5	171.8	194.2	236.1	246.1	238.4
71°	154.1	165.0	186.9	226.5	236.6	229.3
71.5°	148.6	159.1	179.6	217.4	227.5	220.6
72°	143.1	153.2	172.3	208.3	218.3	212.0
72.5°	137.7	147.2	165.5	200.1	209.2	203.3
73°	132.6	141.8	159.1	191.4	201.0	194.6
73.5°	127.6	135.8	152.7	182.8	191.9	186.4
74°	123.1	129.9	146.3	175.0	183.7	178.2
74.5°	118.1	124.4	139.9	166.8	175.5	170.0
75°	114.0	119.0	133.6	159.5	167.3	163.6
75.5°	109.9	113.5	127.6	152.2	160.0	155.9
76°	105.8	108.0	121.2	145.0	152.2	148.1
76.5°	101.2	103.0	115.8	137.7	145.0	139.9
77°	97.1	98.0	109.9	130.4	137.2	132.2
77.5°	92.5	93.0	104.4	123.5	129.9	125.4
78°	88.0	88.0	98.9	116.7	122.6	118.1
78.5°	83.9	83.4	93.0	109.9	115.8	110.8
79°	79.3	78.4	88.0	103.0	108.5	103.9
79.5°	74.8	73.8	82.5	96.6	101.6	97.1
80°	70.7	69.3	77.5	90.3	94.8	90.3
80.5°	66.1	64.7	72.5	84.3	88.4	83.9
81°	61.5	60.6	67.5	78.4	81.6	77.5
81.5°	57.4	56.1	62.4	72.5	75.2	71.1
82°	53.3	52.0	57.4	66.5	68.8	64.7
82.5°	49.2	47.9	52.9	61.1	62.9	58.8
83°	45.1	43.8	48.3	55.6	57.0	52.9
83.5°	41.0	39.7	43.8	50.6	50.6	46.5
84°	36.9	36.0	39.2	45.6	44.7	40.6
84.5°	32.8	31.9	35.1	40.6	39.2	34.6
85°	28.7	28.3	30.5	36.0	34.2	29.2
85.5°	24.6	24.6	26.4	31.5	29.2	23.2
86°	20.5	21.0	22.3	27.3	24.6	19.1
86.5°	16.9	17.3	18.2	22.8	20.5	16.0
87°	13.2	13.7	14.6	18.7	16.9	13.2
87.5°	9.6	10.5	10.9	15.0	13.2	10.0
88°	5.9	6.8	7.3	11.4	9.6	7.3
88.5°	2.7	3.6	3.2	7.7	6.4	4.1



TEST NUMBER: P776730

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-HCD6TSQLWW-5000lm-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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Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	2246.7	2219.8	2122.3	1961.4	1741.2	1526.1	1346.0	1246.2	1214.8	1245.3	1341.9
22°	2244.0	2217.1	2118.6	1955.9	1732.6	1514.7	1331.4	1231.2	1199.7	1230.3	1327.8



44°	1340.1	1429.9	1561.6	1253.0	992.8	828.7	702.0	620.8	593.5	623.6	705.2
44.5°	1304.6	1396.2	1530.2	1223.9	969.1	810.4	687.8	607.6	580.3	610.8	691.0



66.5°	318.2	325.5	315.4	263.0	227.5	210.1	203.8	210.6	206.0	212.0	207.9
67°	307.7	313.1	303.1	253.4	219.2	202.8	198.3	204.7	200.1	206.0	202.4



89°	1.4	0.9	0.9	0.9	0.5	0.5	0.0	0.5	0.0	0.5	0.5
89.5°	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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21.5°	1503.7	1713.4	1924.5	2094.9	2203.0	2246.7
22°	1491.4	1704.3	1918.5	2090.8	2199.8	2244.0



44°	809.1	965.4	1196.1	1537.0	1425.8	1340.1
44.5°	791.8	942.2	1167.8	1507.9	1391.6	1304.6



66.5°	210.1	229.7	261.6	323.2	330.9	318.2
67°	203.3	222.0	252.1	310.4	320.4	307.7

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Scaled Data Report



89°	0.5	0.9	0.9	4.1	2.7	1.4
89.5°	0.0	0.0	0.0	0.9	0.5	0.0

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(END OF REPORT)