

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P776175

Luminaire Tested: HCDJBL51525CSD-HCD8TRC-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776175
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-HCD8TRC-2500lm-2700K
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

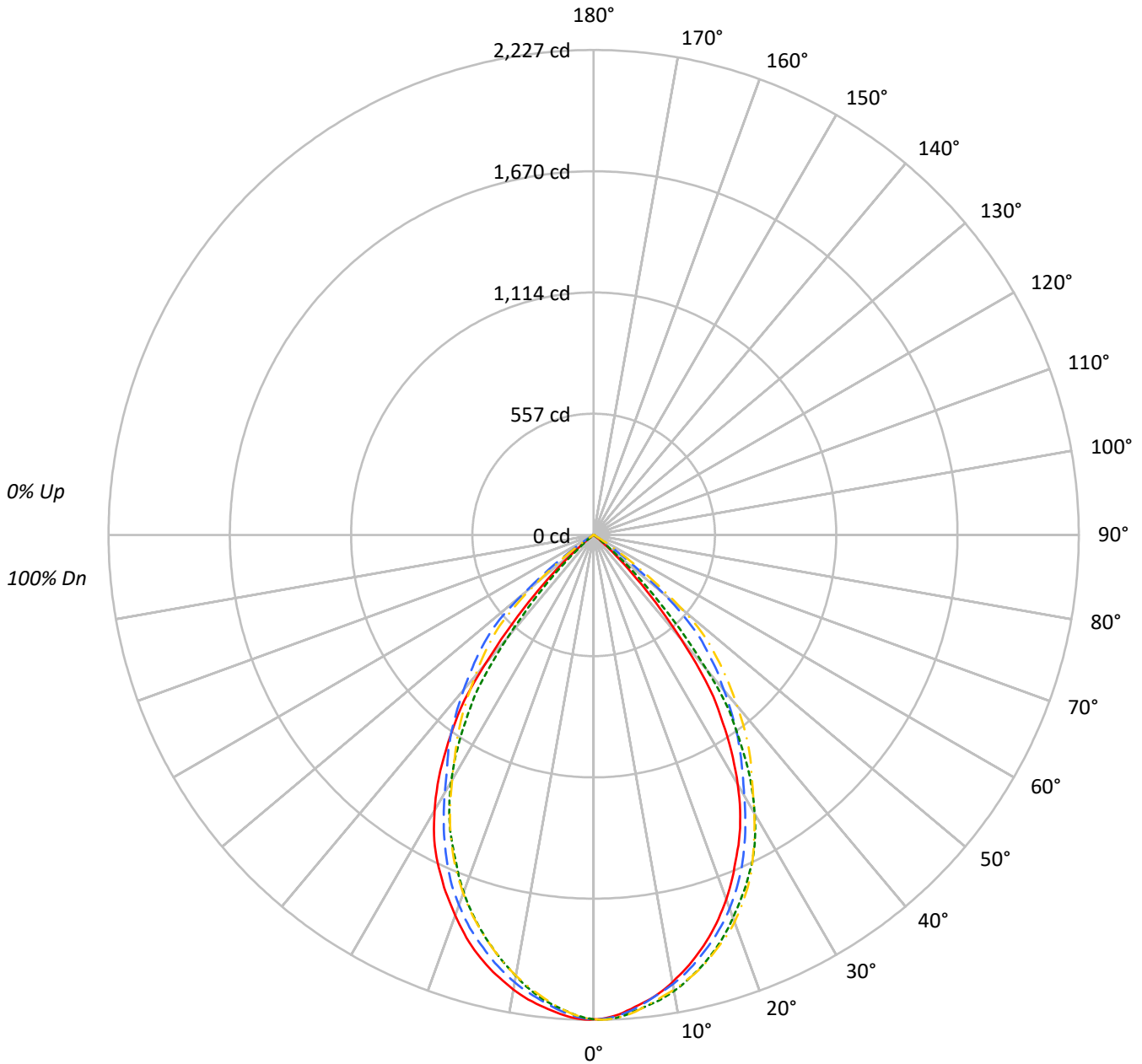
Lumens per Lamp: N/A
Luminaire Lumens: 2641.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	99	97	97	95	94	92
	1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	91	88	86	85	85	85
	2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	82	79	78	78	78	78
	3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78	78	74	73	71	71	71	71
	4	95	86	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71	71	67	65	65	65	65	65
	5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	61	60	60	60	60	60
	6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60	60	57	55	55	55	55	55
	7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55	55	51	50	50	50	50	50
	8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51	51	47	46	46	46	46	46
	9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47	47	43	42	42	42	42	42
	10	67	56	50	46	66	56	50	46	55	50	46	54	49	45	54	49	45	44	44	40	39	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	67918	67918	67918	67918
5°	66691	67264	67196	66366
10°	64631	65937	65713	63773
15°	61704	63787	63527	60525
20°	57838	60765	60372	56711
25°	52955	57216	56701	52025
30°	46637	52154	51512	46122
35°	37807	44128	43398	37528
40°	24829	32178	30875	24483
45°	10902	16532	15505	10660
50°	2384	4802	4279	2304
55°	309	463	426	298
60°	250	372	342	238
65°	209	318	282	195
70°	170	259	241	152
75°	142	224	201	142
80°	123	211	176	123
85°	70	175	175	70

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 34645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	7.8
10°-20°	552.7	20.9
20°-30°	743.4	28.1
30°-40°	702.4	26.6
40°-50°	377.0	14.3
50°-60°	54.6	2.1
60°-70°	3.6	0.1
70°-80°	1.6	0.1
80°-90°	0.4	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1501.5	56.9
0°-40°	2203.9	83.4
0°-60°	2635.4	99.8
0°-90°	2641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2225	2225	2225	2225	2225	
5°	2176	2195	2193	2166	2176	205
15°	1952	2018	2010	1915	1952	547
25°	1572	1698	1683	1544	1572	718
35°	1014	1184	1164	1007	1014	621
45°	252	383	359	247	252	210
55°	6	9	8	6	6	10
65°	3	4	4	3	3	3
75°	1	2	2	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6
0.5°	2224.3	2224.6	2224.3	2224.8	2225.3	2225.8	2226.0	2226.8	2226.3	2225.1	2223.1
1°	2222.2	2222.9	2223.1	2224.6	2225.8	2226.3	2226.8	2226.8	2225.8	2223.6	2220.7
1.5°	2218.8	2220.5	2221.0	2222.9	2224.8	2225.8	2226.0	2226.0	2224.1	2221.4	2218.0
2°	2214.9	2217.3	2218.0	2220.5	2223.4	2224.1	2224.3	2224.3	2221.9	2218.3	2214.2
2.5°	2210.3	2213.2	2214.2	2217.3	2221.0	2221.7	2222.2	2221.9	2218.8	2214.2	2209.6
3°	2204.5	2207.9	2209.6	2213.0	2217.3	2218.5	2218.8	2218.3	2215.1	2209.8	2204.0
3.5°	2198.2	2201.8	2204.0	2207.9	2213.0	2214.4	2214.7	2213.9	2210.3	2204.2	2197.7
4°	2190.4	2194.8	2197.9	2202.3	2207.6	2209.3	2209.8	2209.1	2204.7	2197.9	2190.4
4.5°	2183.6	2188.0	2190.9	2195.0	2201.3	2203.5	2204.2	2203.0	2198.7	2191.1	2182.7
5°	2176.1	2181.5	2182.9	2187.8	2194.8	2196.7	2197.7	2196.7	2192.6	2183.9	2174.4
5.5°	2168.6	2173.7	2174.7	2179.5	2188.2	2189.9	2190.2	2189.9	2187.0	2176.6	2166.4
6°	2160.9	2165.7	2166.2	2172.2	2182.4	2183.4	2182.4	2184.1	2180.7	2169.6	2158.2
6.5°	2154.1	2158.2	2157.2	2164.5	2176.6	2177.1	2174.7	2177.3	2174.9	2162.1	2149.7
7°	2146.6	2150.9	2148.0	2156.7	2170.5	2170.5	2166.2	2170.8	2168.9	2154.8	2141.7
7.5°	2137.6	2142.7	2138.8	2149.5	2165.0	2164.2	2158.2	2163.5	2161.6	2146.8	2133.2
8°	2128.6	2134.0	2130.1	2142.0	2158.4	2157.7	2150.9	2155.8	2154.3	2138.6	2124.3
8.5°	2119.2	2124.5	2121.1	2134.0	2151.4	2150.9	2142.9	2147.5	2146.6	2129.6	2115.3
9°	2108.0	2114.3	2112.4	2124.7	2143.2	2142.9	2135.9	2139.3	2137.8	2120.9	2106.3
9.5°	2096.6	2103.4	2103.4	2115.8	2135.4	2134.9	2128.4	2129.8	2129.1	2111.9	2096.6
10°	2084.8	2092.0	2094.5	2106.3	2126.9	2126.7	2120.4	2120.1	2119.7	2102.2	2086.5
10.5°	2072.4	2079.9	2084.8	2096.9	2117.7	2118.0	2112.6	2110.2	2109.7	2092.5	2075.6
11°	2060.0	2066.6	2074.8	2086.2	2108.3	2108.3	2103.9	2100.0	2099.1	2081.6	2064.4
11.5°	2048.2	2053.5	2064.2	2075.6	2097.4	2098.3	2094.7	2088.9	2088.9	2070.7	2052.8
12°	2035.8	2040.7	2052.5	2063.9	2086.2	2087.4	2085.5	2077.7	2078.9	2059.6	2040.9
12.5°	2023.2	2027.8	2040.4	2052.3	2075.6	2075.8	2076.0	2066.6	2068.8	2049.1	2028.5
13°	2010.1	2014.5	2028.8	2040.2	2065.1	2064.2	2066.6	2056.4	2058.8	2038.5	2016.7
13.5°	1995.8	2001.4	2015.5	2028.8	2055.0	2053.5	2056.4	2046.0	2047.2	2028.3	2003.3
14°	1981.5	1987.6	2002.9	2017.4	2043.8	2042.8	2046.0	2036.1	2034.8	2017.4	1989.8
14.5°	1966.7	1973.0	1989.3	2006.0	2031.0	2031.7	2034.6	2024.9	2022.7	2005.3	1976.2
15°	1952.2	1958.0	1976.2	1993.9	2018.1	2020.1	2022.7	2013.0	2009.9	1992.4	1962.1
15.5°	1936.9	1943.5	1962.1	1980.6	2004.8	2007.2	2010.1	2000.7	1997.0	1979.4	1948.6
16°	1921.4	1928.2	1949.5	1967.0	1992.0	1994.4	1997.5	1989.0	1983.5	1965.8	1934.8
16.5°	1905.2	1913.2	1935.5	1953.2	1978.9	1980.8	1985.2	1976.0	1969.7	1952.2	1921.2
17°	1888.5	1897.4	1920.7	1938.9	1964.8	1968.0	1972.8	1963.1	1955.6	1937.7	1906.2
17.5°	1871.5	1882.2	1905.2	1924.3	1950.8	1954.1	1960.7	1949.8	1940.3	1922.9	1891.9
18°	1853.8	1865.7	1891.1	1909.6	1935.5	1940.3	1949.1	1936.2	1924.1	1907.1	1875.6
18.5°	1835.6	1848.7	1875.1	1894.5	1920.0	1925.6	1935.7	1921.9	1907.9	1890.9	1859.2
19°	1817.5	1831.8	1858.9	1878.5	1904.0	1910.3	1921.9	1906.7	1891.9	1874.2	1842.4
19.5°	1799.1	1814.6	1842.2	1861.6	1887.0	1894.8	1906.9	1890.9	1874.7	1857.5	1825.2
20°	1780.2	1796.4	1825.2	1844.6	1870.3	1878.5	1891.6	1874.9	1858.2	1840.3	1807.8
20.5°	1761.0	1778.2	1807.1	1826.9	1853.8	1862.1	1875.1	1858.4	1841.7	1822.3	1790.3
21°	1740.7	1759.8	1788.4	1809.0	1837.1	1845.1	1859.2	1841.9	1825.0	1804.4	1772.9



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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°	1678.1	1700.9	1731.9	1753.3	1786.9	1795.2	1806.3	1791.5	1774.8	1750.8	1716.2
23°	1655.6	1679.6	1711.3	1734.1	1770.0	1778.5	1788.2	1774.6	1758.1	1731.7	1695.6
23.5°	1633.8	1658.7	1691.2	1715.9	1753.3	1761.7	1770.0	1757.6	1738.2	1712.5	1674.5
24°	1612.5	1636.2	1669.9	1697.0	1734.4	1743.1	1751.8	1738.5	1719.3	1693.2	1652.7
24.5°	1592.1	1614.9	1647.8	1678.4	1716.2	1725.1	1731.0	1719.3	1700.9	1673.5	1630.6
25°	1572.0	1594.0	1625.8	1659.0	1698.5	1706.2	1709.6	1699.9	1683.2	1653.7	1607.6
25.5°	1550.4	1573.7	1603.0	1639.4	1681.5	1686.9	1687.3	1679.6	1665.3	1634.8	1584.8
26°	1528.1	1554.8	1580.0	1619.7	1662.9	1668.2	1665.0	1660.0	1646.4	1616.6	1561.6
26.5°	1505.4	1535.2	1556.7	1600.3	1642.5	1650.3	1641.1	1640.8	1626.0	1598.4	1538.1
27°	1481.4	1514.6	1532.3	1581.9	1621.7	1633.3	1616.8	1622.9	1604.7	1580.0	1514.6
27.5°	1456.9	1493.0	1508.0	1563.8	1600.1	1615.1	1593.3	1604.7	1582.9	1560.6	1490.6
28°	1431.0	1470.0	1482.6	1544.1	1577.6	1596.0	1569.8	1585.8	1560.1	1540.0	1466.3
28.5°	1405.3	1447.4	1457.9	1524.0	1554.3	1576.1	1546.1	1565.0	1536.9	1518.9	1442.1
29°	1378.1	1424.2	1432.7	1502.0	1529.8	1555.0	1523.3	1544.9	1512.4	1496.9	1417.4
29.5°	1351.0	1400.2	1407.5	1479.9	1504.9	1533.5	1498.6	1522.6	1486.7	1473.9	1391.5
30°	1322.9	1375.0	1383.0	1456.9	1479.4	1510.9	1475.1	1499.8	1461.2	1450.1	1365.3
30.5°	1294.3	1348.6	1358.7	1432.9	1452.8	1487.2	1450.3	1476.3	1434.4	1424.9	1340.3
31°	1263.3	1322.2	1334.8	1408.2	1425.9	1462.9	1425.9	1452.3	1407.9	1399.7	1316.3
31.5°	1235.6	1296.0	1312.5	1382.7	1397.8	1437.7	1400.9	1426.6	1379.8	1373.5	1293.3
32°	1204.9	1269.1	1290.2	1357.0	1369.6	1412.1	1377.6	1401.4	1352.0	1347.4	1272.0
32.5°	1174.8	1241.2	1268.1	1331.4	1340.8	1385.9	1354.9	1375.0	1321.7	1320.7	1251.1
33°	1142.6	1213.6	1246.1	1305.4	1311.5	1359.2	1333.8	1348.3	1292.1	1293.8	1231.8
33.5°	1112.5	1185.2	1223.8	1278.8	1281.0	1332.1	1313.4	1320.9	1260.6	1265.2	1211.9
34°	1079.6	1156.4	1202.4	1251.6	1249.5	1305.2	1293.8	1293.1	1228.9	1237.3	1192.0
34.5°	1047.6	1126.8	1181.1	1223.8	1216.5	1276.4	1273.9	1265.2	1196.1	1207.5	1170.9
35°	1014.4	1096.8	1159.5	1196.6	1184.0	1247.0	1254.3	1236.6	1164.4	1178.2	1150.6
35.5°	984.1	1066.5	1137.7	1168.3	1151.8	1217.5	1233.5	1208.0	1131.2	1148.2	1128.5
36°	953.1	1036.2	1114.5	1139.2	1119.1	1187.9	1211.9	1178.2	1099.0	1117.9	1107.0
36.5°	923.3	1005.2	1091.5	1109.9	1087.1	1156.4	1189.8	1147.9	1067.9	1086.8	1084.4
37°	884.5	975.4	1068.2	1079.8	1056.1	1124.9	1167.1	1117.6	1036.7	1056.6	1061.9
37.5°	841.1	946.1	1045.2	1050.0	1026.5	1093.4	1143.3	1087.3	1000.1	1025.5	1038.9
38°	797.7	917.2	1021.4	1020.0	988.9	1062.4	1119.6	1057.3	961.8	995.7	1016.6
38.5°	754.6	887.9	997.9	990.6	948.2	1032.3	1096.1	1027.0	918.2	966.4	994.3
39°	711.2	848.2	975.6	963.3	904.9	1003.2	1072.6	998.9	872.4	937.6	972.2
39.5°	667.9	807.9	952.8	934.9	855.9	975.9	1048.3	970.3	823.0	904.4	949.7
40°	623.0	767.7	931.0	908.5	807.4	941.2	1024.8	941.0	774.7	867.3	927.9
40.5°	578.4	727.5	908.3	877.2	759.5	903.9	1001.8	909.9	728.0	827.3	906.3
41°	537.5	687.2	886.7	838.0	713.4	863.7	978.8	873.6	682.9	785.1	885.0
41.5°	496.5	644.6	874.8	798.5	669.3	819.3	956.5	835.1	639.5	741.5	864.4
42°	459.0	603.6	851.3	759.0	625.0	774.2	933.5	793.9	595.2	698.6	843.3
42.5°	422.4	562.7	827.6	719.7	583.8	729.9	911.9	751.9	553.5	658.2	823.2
43°	387.0	521.7	804.1	680.2	539.2	687.5	890.3	710.5	510.6	618.2	803.1
43.5°	350.4	482.7	780.3	640.2	498.2	646.5	868.3	669.8	469.6	580.1	782.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	252.5	377.1	718.0	528.8	382.9	525.9	802.4	554.9	359.1	465.0	720.2
45.5°	222.7	342.7	697.4	491.4	349.0	486.4	780.1	516.4	325.4	429.2	700.1
46°	195.3	309.9	674.9	456.5	313.8	448.6	758.3	478.4	292.7	393.3	679.7
46.5°	168.2	278.0	648.2	420.4	282.6	412.7	736.9	441.8	261.7	361.8	656.2
47°	143.2	248.1	617.5	386.8	254.4	377.8	717.1	406.1	234.6	328.4	633.5
47.5°	120.0	219.3	586.0	353.3	226.6	343.4	691.6	372.2	207.4	297.8	606.8
48°	100.6	191.9	554.7	322.8	198.7	310.7	666.4	339.0	180.1	266.8	580.6
48.5°	83.6	166.0	524.6	291.3	170.6	279.2	637.6	307.3	153.2	239.9	545.5
49°	72.2	141.8	489.7	262.0	143.0	251.3	602.9	276.0	130.4	212.8	507.9
49.5°	61.3	119.2	454.4	232.9	120.9	223.9	567.1	249.1	109.8	185.9	467.7
50°	50.2	98.9	415.8	205.5	101.1	196.3	527.8	222.0	90.1	159.0	428.4
50.5°	39.3	80.9	377.1	178.6	82.9	168.9	489.0	195.1	72.9	136.2	391.1
51°	30.5	70.0	339.3	154.8	66.6	141.3	449.8	168.2	57.7	115.3	355.0
51.5°	22.1	59.1	303.9	132.1	53.1	119.7	411.7	141.3	48.0	96.4	320.1
52°	13.8	48.0	270.4	111.2	44.3	99.8	373.2	119.2	38.0	78.0	285.7
52.5°	8.5	37.1	238.9	92.3	35.6	81.2	337.6	98.9	28.4	61.8	257.1
53°	7.5	28.6	208.6	78.5	26.7	65.2	301.9	80.7	18.4	47.7	228.3
53.5°	7.0	20.6	180.3	64.9	17.9	51.6	268.5	64.0	9.0	39.5	199.7
54°	6.5	12.6	154.4	51.1	9.5	42.7	239.2	49.4	8.5	31.3	170.8
54.5°	6.1	7.0	130.9	37.3	9.0	33.9	209.9	41.0	8.2	23.0	142.2
55°	5.8	6.5	109.5	23.7	8.7	25.2	180.8	32.5	8.0	14.8	120.4
55.5°	5.6	6.1	90.6	13.8	8.2	16.5	151.5	23.7	7.8	6.8	100.6
56°	5.3	5.8	77.8	7.5	8.0	7.8	127.5	15.3	7.5	6.5	82.4
56.5°	5.3	5.3	65.2	7.0	7.8	7.3	105.4	7.0	7.3	6.3	66.6
57°	5.1	5.1	52.3	6.8	7.5	7.0	85.8	6.8	7.0	6.1	52.8
57.5°	4.8	5.1	39.7	6.5	7.3	6.8	68.3	6.5	6.8	6.1	41.7
58°	4.6	4.8	27.1	6.3	7.0	6.5	53.3	6.5	6.5	5.8	35.1
58.5°	4.6	4.6	20.8	6.1	6.8	6.3	41.0	6.3	6.3	5.6	28.8
59°	4.4	4.6	16.0	5.8	6.5	6.3	34.4	6.1	6.1	5.3	22.3
59.5°	4.4	4.4	12.4	5.6	6.3	6.1	28.1	5.8	5.8	5.3	16.0
60°	4.1	4.4	9.5	5.6	6.1	5.8	22.1	5.6	5.6	5.1	9.7
60.5°	3.9	4.1	8.0	5.3	5.8	5.6	15.8	5.6	5.6	4.8	7.3
61°	3.9	4.1	6.8	5.1	5.8	5.3	9.5	5.3	5.3	4.8	5.3
61.5°	3.6	3.9	5.6	5.1	5.6	5.3	7.0	5.1	5.1	4.6	4.4
62°	3.6	3.9	4.1	4.8	5.3	5.1	5.6	5.1	4.8	4.4	3.9
62.5°	3.4	3.6	4.1	4.6	5.1	4.8	4.6	4.8	4.8	4.4	3.9
63°	3.4	3.6	3.9	4.6	5.1	4.8	4.4	4.6	4.6	4.1	3.6
63.5°	3.2	3.4	3.9	4.4	4.8	4.6	4.4	4.6	4.4	4.1	3.6
64°	3.2	3.4	3.6	4.4	4.6	4.6	4.1	4.4	4.4	3.9	3.4
64.5°	2.9	3.2	3.6	4.1	4.6	4.4	4.1	4.1	4.1	3.9	3.4
65°	2.9	3.2	3.4	3.9	4.4	4.1	3.9	4.1	3.9	3.6	3.2
65.5°	2.7	3.2	3.4	3.9	4.1	4.1	3.9	3.9	3.9	3.6	3.2
66°	2.7	2.9	3.2	3.6	4.1	3.9	3.6	3.9	3.6	3.4	2.9



TEST NUMBER: P776175

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.4	2.7	2.9	3.4	3.6	3.6	3.4	3.4	3.2	3.2	2.7
68°	2.2	2.4	2.9	3.2	3.4	3.4	3.2	3.2	3.2	2.9	2.7
68.5°	2.2	2.4	2.7	3.2	3.4	3.4	3.2	3.2	2.9	2.9	2.4
69°	2.2	2.2	2.7	2.9	3.2	3.2	2.9	2.9	2.9	2.7	2.4
69.5°	1.9	2.2	2.4	2.9	3.2	3.2	2.9	2.9	2.7	2.7	2.4
70°	1.9	2.2	2.4	2.7	2.9	2.9	2.7	2.7	2.7	2.4	2.2
70.5°	1.9	1.9	2.2	2.7	2.9	2.9	2.7	2.7	2.7	2.4	2.2
71°	1.7	1.9	2.2	2.4	2.9	2.7	2.4	2.4	2.4	2.4	1.9
71.5°	1.7	1.9	2.2	2.4	2.7	2.7	2.4	2.4	2.4	2.2	1.9
72°	1.7	1.7	1.9	2.4	2.7	2.4	2.2	2.4	2.2	2.2	1.9
72.5°	1.7	1.7	1.9	2.2	2.4	2.4	2.2	2.2	2.2	1.9	1.7
73°	1.5	1.7	1.7	2.2	2.4	2.4	1.9	2.2	2.2	1.9	1.7
73.5°	1.5	1.7	1.7	1.9	2.2	2.2	1.9	1.9	1.9	1.9	1.5
74°	1.5	1.5	1.7	1.9	2.2	2.2	1.9	1.9	1.9	1.7	1.5
74.5°	1.5	1.5	1.5	1.9	2.2	2.2	1.7	1.9	1.9	1.7	1.5
75°	1.2	1.5	1.5	1.7	1.9	1.9	1.7	1.7	1.7	1.7	1.2
75.5°	1.2	1.2	1.5	1.7	1.9	1.9	1.5	1.7	1.7	1.5	1.2
76°	1.2	1.2	1.2	1.7	1.9	1.7	1.5	1.7	1.7	1.5	1.2
76.5°	1.2	1.2	1.2	1.5	1.7	1.7	1.5	1.5	1.5	1.5	1.2
77°	1.0	1.2	1.2	1.5	1.7	1.7	1.2	1.5	1.5	1.2	1.0
77.5°	1.0	1.0	1.0	1.5	1.7	1.5	1.2	1.5	1.5	1.2	1.0
78°	1.0	1.0	1.0	1.2	1.5	1.5	1.2	1.2	1.2	1.2	1.0
78.5°	1.0	1.0	1.0	1.2	1.5	1.5	1.0	1.2	1.2	1.2	1.0
79°	1.0	1.0	1.0	1.2	1.5	1.2	1.0	1.2	1.2	1.0	0.7
79.5°	0.7	0.7	0.7	1.2	1.2	1.2	1.0	1.0	1.2	1.0	0.7
80°	0.7	0.7	0.7	1.0	1.2	1.2	1.0	1.0	1.0	1.0	0.7
80.5°	0.7	0.7	0.7	1.0	1.2	1.0	0.7	1.0	1.0	0.7	0.7
81°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.7	1.0	0.7	0.5
81.5°	0.5	0.7	0.5	0.7	1.0	1.0	0.7	0.7	1.0	0.7	0.5
82°	0.5	0.5	0.5	0.7	1.0	1.0	0.7	0.7	0.7	0.7	0.5
82.5°	0.5	0.5	0.5	0.7	1.0	0.7	0.5	0.7	0.7	0.5	0.5
83°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	0.5	0.7	0.5	0.5
83.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	0.5	0.7	0.5	0.2
84°	0.2	0.2	0.2	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.2
84.5°	0.2	0.2	0.2	0.5	0.7	0.5	0.5	0.5	0.5	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.2	0.5	0.2	0.2
85.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.2	0.5	0.2	0.2
86°	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2
86.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	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: P776175
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-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: P776175

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6
0.5°	2222.6	2221.2	2221.7	2222.2	2223.4	2224.3
1°	2220.0	2218.0	2217.6	2218.8	2220.7	2222.2
1.5°	2216.1	2213.2	2213.0	2214.2	2216.8	2218.8
2°	2211.5	2207.9	2206.9	2208.6	2211.7	2214.9
2.5°	2206.2	2201.3	2200.4	2202.3	2206.2	2210.3
3°	2199.6	2194.3	2193.6	2195.3	2199.9	2204.5
3.5°	2192.6	2187.3	2185.3	2187.8	2192.4	2198.2
4°	2185.6	2180.2	2178.3	2178.8	2184.4	2190.4
4.5°	2178.8	2173.2	2170.3	2169.8	2175.6	2183.6
5°	2171.5	2165.5	2162.1	2161.1	2167.2	2176.1
5.5°	2163.8	2157.0	2153.1	2151.4	2158.2	2168.6
6°	2155.3	2149.0	2144.1	2141.5	2148.5	2160.9
6.5°	2146.8	2139.5	2134.9	2131.8	2139.3	2154.1
7°	2138.1	2130.1	2124.3	2121.6	2130.6	2146.6
7.5°	2128.1	2118.9	2113.4	2110.9	2120.9	2137.6
8°	2117.5	2107.8	2102.0	2100.8	2110.9	2128.6
8.5°	2105.8	2095.7	2089.4	2089.1	2100.5	2119.2
9°	2094.0	2083.1	2076.8	2078.0	2089.6	2108.0
9.5°	2081.4	2070.5	2063.2	2066.6	2078.2	2096.6
10°	2068.5	2057.1	2050.1	2054.7	2066.1	2084.8
10.5°	2055.7	2043.6	2035.8	2042.6	2053.5	2072.4
11°	2042.1	2030.2	2021.5	2030.0	2040.7	2060.0
11.5°	2028.5	2017.2	2007.2	2016.9	2027.8	2048.2
12°	2015.2	2003.6	1993.9	2003.3	2014.5	2035.8
12.5°	2002.4	1989.0	1979.8	1989.5	2001.6	2023.2
13°	1989.3	1974.5	1966.3	1975.5	1988.6	2010.1
13.5°	1975.0	1959.7	1950.8	1960.9	1975.7	1995.8
14°	1961.4	1944.7	1935.5	1945.7	1962.4	1981.5
14.5°	1946.6	1929.9	1920.0	1930.9	1948.3	1966.7
15°	1932.3	1914.9	1905.2	1916.1	1933.5	1952.2
15.5°	1917.3	1899.4	1889.4	1901.1	1918.3	1936.9
16°	1902.8	1883.4	1873.9	1885.8	1903.0	1921.4
16.5°	1887.7	1867.9	1857.9	1870.1	1887.5	1905.2
17°	1872.5	1851.4	1842.2	1854.8	1871.5	1888.5
17.5°	1856.7	1834.4	1826.0	1838.3	1855.3	1871.5
18°	1841.0	1817.0	1809.0	1821.8	1838.3	1853.8
18.5°	1824.0	1800.0	1792.3	1805.1	1820.9	1835.6
19°	1807.1	1782.1	1774.6	1787.2	1803.2	1817.5
19.5°	1790.1	1763.9	1756.9	1769.7	1784.8	1799.1
20°	1773.1	1745.5	1738.5	1751.6	1765.4	1780.2
20.5°	1755.9	1726.1	1720.5	1732.9	1746.2	1761.0
21°	1737.5	1706.5	1702.1	1713.8	1726.6	1740.7

TEST NUMBER: P776175

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1678.6	1644.2	1643.0	1655.1	1665.8	1678.1
23°	1658.5	1622.6	1622.6	1634.0	1644.5	1655.6
23.5°	1636.9	1603.3	1600.8	1613.7	1623.1	1633.8
24°	1615.4	1583.6	1579.3	1591.4	1601.3	1612.5
24.5°	1592.8	1564.0	1559.2	1569.6	1578.3	1592.1
25°	1571.8	1544.4	1539.3	1546.8	1554.8	1572.0
25.5°	1551.2	1524.5	1520.9	1524.7	1533.0	1550.4
26°	1532.0	1503.9	1501.2	1500.7	1511.4	1528.1
26.5°	1513.3	1482.3	1481.8	1477.0	1491.3	1505.4
27°	1494.7	1459.8	1462.5	1452.5	1470.7	1481.4
27.5°	1475.1	1436.0	1441.9	1427.3	1449.1	1456.9
28°	1454.9	1411.3	1421.0	1401.6	1427.3	1431.0
28.5°	1433.6	1386.6	1399.0	1376.4	1404.8	1405.3
29°	1411.8	1361.4	1376.2	1350.5	1381.3	1378.1
29.5°	1388.8	1334.8	1352.9	1325.1	1356.8	1351.0
30°	1365.8	1308.3	1328.5	1299.4	1331.8	1322.9
30.5°	1341.5	1280.7	1303.5	1275.1	1306.4	1294.3
31°	1317.5	1252.4	1277.6	1250.9	1280.2	1263.3
31.5°	1291.9	1223.5	1251.6	1227.4	1253.6	1235.6
32°	1267.1	1194.7	1225.2	1203.7	1226.4	1204.9
32.5°	1241.2	1164.2	1198.8	1181.6	1199.0	1174.8
33°	1214.8	1133.9	1170.9	1159.5	1171.7	1142.6
33.5°	1188.4	1102.6	1142.1	1138.5	1144.0	1112.5
34°	1161.5	1070.6	1113.7	1117.4	1116.4	1079.6
34.5°	1133.1	1038.6	1083.2	1095.3	1087.3	1047.6
35°	1105.5	1006.9	1053.2	1073.0	1058.7	1014.4
35.5°	1077.4	976.8	1022.9	1050.7	1030.1	984.1
36°	1049.0	947.8	992.6	1027.2	1001.1	953.1
36.5°	1019.7	917.9	961.8	1004.2	972.2	923.3
37°	990.6	880.1	932.5	981.7	942.9	884.5
37.5°	961.8	835.8	903.4	958.9	913.8	841.1
38°	933.5	791.4	878.0	936.1	885.0	797.7
38.5°	906.8	747.3	838.5	913.1	854.0	754.6
39°	882.1	703.0	798.7	891.5	823.0	711.2
39.5°	855.2	658.7	759.0	866.6	791.7	667.9
40°	821.0	614.3	719.5	846.7	760.7	623.0
40.5°	781.8	570.4	680.0	826.6	729.4	578.4
41°	742.0	528.5	640.2	806.5	692.3	537.5
41.5°	702.5	487.8	599.5	786.4	655.5	496.5
42°	664.2	450.5	558.8	766.0	619.2	459.0
42.5°	625.5	414.9	518.6	745.4	581.1	422.4
43°	586.2	379.0	480.3	725.3	543.3	387.0
43.5°	546.2	343.4	443.9	704.7	506.0	350.4



TEST NUMBER: P776175

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	436.0	246.9	343.1	646.3	403.5	252.5
45.5°	402.0	218.3	310.7	623.3	371.5	222.7
46°	368.3	190.7	280.4	598.1	340.0	195.3
46.5°	335.6	164.3	250.6	566.3	307.5	168.2
47°	303.9	139.3	222.7	535.8	278.0	143.2
47.5°	272.9	117.3	194.8	506.5	248.4	120.0
48°	246.0	98.1	168.9	475.9	220.8	100.6
48.5°	219.1	81.9	144.7	443.2	193.4	83.6
49°	192.4	70.5	122.4	405.4	168.7	72.2
49.5°	165.5	59.4	102.5	367.9	143.7	61.3
50°	138.6	48.5	84.8	333.7	121.4	50.2
50.5°	116.6	37.6	73.7	300.5	101.1	39.3
51°	96.9	28.8	62.8	270.0	83.8	30.5
51.5°	80.0	20.4	51.6	240.4	72.9	22.1
52°	65.9	12.4	40.7	212.5	62.0	13.8
52.5°	54.0	7.3	29.6	186.4	51.1	8.5
53°	44.1	6.8	21.1	161.9	40.2	7.5
53.5°	36.6	6.5	13.1	138.6	29.6	7.0
54°	29.1	6.1	7.3	118.3	21.1	6.5
54.5°	21.3	5.8	6.8	99.6	13.3	6.1
55°	13.8	5.6	6.1	82.6	7.5	5.8
55.5°	6.3	5.3	5.6	70.3	6.8	5.6
56°	5.1	5.1	5.1	57.9	6.1	5.3
56.5°	5.1	5.1	4.8	45.6	5.3	5.3
57°	4.8	4.8	4.6	33.2	4.8	5.1
57.5°	4.6	4.6	4.6	25.2	4.6	4.8
58°	4.6	4.6	4.4	19.1	4.4	4.6
58.5°	4.4	4.4	4.4	14.1	4.4	4.6
59°	4.4	4.1	4.1	10.4	4.1	4.4
59.5°	4.1	4.1	4.1	9.2	4.1	4.4
60°	4.1	3.9	3.9	7.8	3.9	4.1
60.5°	3.9	3.9	3.9	6.3	3.9	3.9
61°	3.9	3.6	3.6	4.8	3.6	3.9
61.5°	3.6	3.6	3.6	3.6	3.6	3.6
62°	3.6	3.4	3.4	3.4	3.4	3.6
62.5°	3.4	3.4	3.4	3.4	3.4	3.4
63°	3.4	3.2	3.2	3.2	3.4	3.4
63.5°	3.2	2.9	3.2	3.2	3.2	3.2
64°	3.2	2.9	2.9	3.2	3.2	3.2
64.5°	2.9	2.7	2.9	2.9	2.9	2.9
65°	2.9	2.7	2.9	2.9	2.9	2.9
65.5°	2.9	2.7	2.7	2.7	2.9	2.7
66°	2.7	2.4	2.7	2.7	2.7	2.7



TEST NUMBER: P776175
 CATALOG NUMBER: HCDJBL1525CSD-HCD8TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.4	2.2	2.4	2.4	2.4	2.4
68°	2.2	2.2	2.2	2.4	2.4	2.2
68.5°	2.2	1.9	2.2	2.2	2.2	2.2
69°	2.2	1.9	2.2	2.2	2.2	2.2
69.5°	1.9	1.9	1.9	2.2	2.2	1.9
70°	1.9	1.7	1.9	1.9	1.9	1.9
70.5°	1.9	1.7	1.9	1.9	1.9	1.9
71°	1.7	1.7	1.7	1.7	1.9	1.7
71.5°	1.7	1.7	1.7	1.7	1.7	1.7
72°	1.7	1.5	1.7	1.7	1.7	1.7
72.5°	1.7	1.5	1.5	1.5	1.7	1.7
73°	1.5	1.5	1.5	1.5	1.7	1.5
73.5°	1.5	1.5	1.5	1.5	1.5	1.5
74°	1.5	1.2	1.5	1.2	1.5	1.5
74.5°	1.2	1.2	1.2	1.2	1.5	1.5
75°	1.2	1.2	1.2	1.2	1.2	1.2
75.5°	1.2	1.2	1.2	1.2	1.2	1.2
76°	1.2	1.0	1.2	1.0	1.2	1.2
76.5°	1.2	1.0	1.0	1.0	1.2	1.2
77°	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0
78°	1.0	1.0	1.0	0.7	1.0	1.0
78.5°	1.0	1.0	1.0	0.7	1.0	1.0
79°	0.7	0.7	0.7	0.7	1.0	1.0
79.5°	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7
80.5°	0.7	0.7	0.7	0.5	0.7	0.7
81°	0.7	0.7	0.7	0.5	0.7	0.7
81.5°	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5
83°	0.5	0.5	0.5	0.2	0.5	0.5
83.5°	0.5	0.5	0.5	0.2	0.2	0.5
84°	0.2	0.5	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.2	0.2
85.5°	0.2	0.2	0.2	0.2	0.2	0.2
86°	0.2	0.2	0.2	0.2	0.2	0.2
86.5°	0.2	0.2	0.2	0.0	0.0	0.2
87°	0.0	0.2	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: P776175
CATALOG NUMBER: HCDJBL1525CSD-HCD8TRC-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





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

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Scaled Data Report



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Scaled Data Report





21.5°	1720.5	1740.4	1770.0	1790.3	1820.4	1828.4	1842.7	1825.2	1808.3	1786.5	1755.4
22°	1699.9	1721.0	1751.1	1771.4	1803.7	1811.7	1824.7	1808.3	1791.5	1768.8	1736.3



44°	316.0	446.9	759.2	602.9	456.5	606.3	846.5	630.5	430.1	540.6	761.9
44.5°	283.0	411.5	737.9	565.4	420.2	566.8	824.2	593.0	393.5	503.1	741.0



66.5°	2.4	2.9	3.2	3.6	3.9	3.9	3.4	3.6	3.4	3.4	2.9
67°	2.4	2.7	3.2	3.4	3.6	3.6	3.4	3.4	3.4	3.2	2.9



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°	1718.6	1686.6	1682.3	1695.1	1707.0	1720.5
22°	1698.7	1665.3	1662.4	1675.2	1686.6	1699.9



44°	507.4	310.2	410.3	684.3	469.6	316.0
44.5°	471.1	277.2	376.3	664.0	436.0	283.0



66.5°	2.7	2.4	2.4	2.7	2.7	2.4
67°	2.4	2.2	2.4	2.4	2.4	2.4

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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)