

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: P776178

Luminaire Tested: HCDJBL51525CSD-HCD8TRC-2500lm-4000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776178  
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-4000K  
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

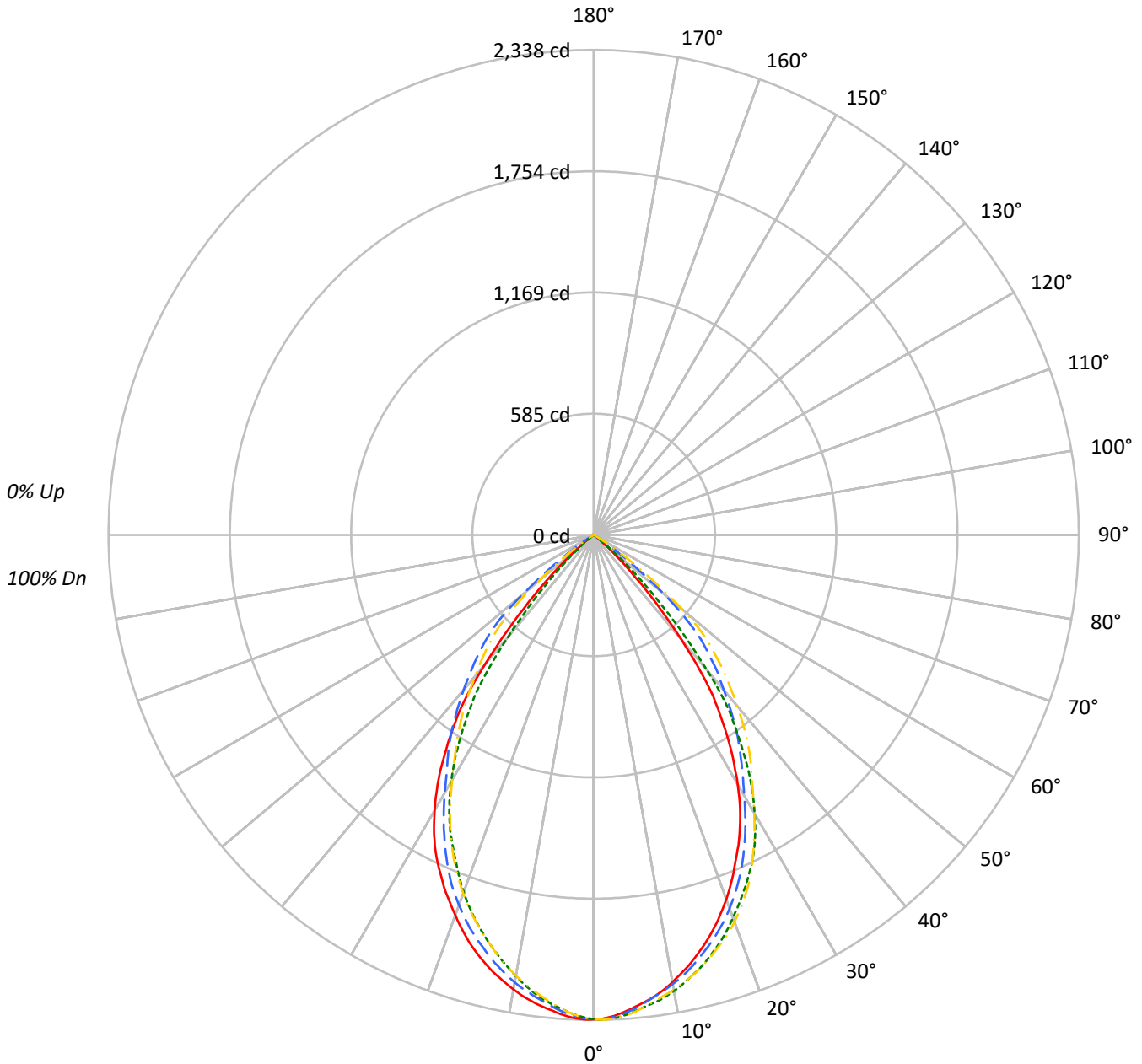
Lumens per Lamp: N/A  
Luminaire Lumens: 2772.4 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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	
	2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	82	79	78	78	
	3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78	78	79	76	73	71	71	
	4	95	86	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71	71	74	70	67	65	65	
	5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	67	63	61	60	60	
	6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60	60	62	58	56	55	55	
	7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55	55	57	53	52	51	51	
	8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51	51	53	49	47	47	47	
	9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47	47	49	45	44	44	44	
	10	67	56	50	46	66	56	50	46	55	50	46	54	49	45	54	49	45	44	44	45	41	40	40	40	

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

	0°	90°	180°	270°
0°	71294	71294	71294	71294
5°	70010	70610	70540	69667
10°	67846	69217	68981	66947
15°	64773	66960	66688	63534
20°	60713	63787	63374	59531
25°	55589	60063	59521	54612
30°	48956	54748	54075	48417
35°	39686	46324	45556	39395
40°	26065	33781	32414	25702
45°	11446	17353	16277	11191
50°	2503	5039	4493	2418
55°	325	490	447	314
60°	263	391	360	250
65°	224	332	296	202
70°	179	277	250	161
75°	153	236	212	153
80°	141	229	176	141
85°	105	175	175	105

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 36367 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.6	7.8
10°-20°	580.2	20.9
20°-30°	780.4	28.1
30°-40°	737.4	26.6
40°-50°	395.7	14.3
50°-60°	57.3	2.1
60°-70°	3.8	0.1
70°-80°	1.7	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°	1576.1	56.9
0°-40°	2313.5	83.4
0°-60°	2766.5	99.8
0°-90°	2772.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2772.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2335	2335	2335	2335	2335	
5°	2284	2304	2302	2273	2284	215
15°	2049	2118	2110	2010	2049	574
25°	1650	1783	1767	1621	1650	754
35°	1065	1243	1222	1057	1065	652
45°	265	402	377	259	265	220
55°	6	9	8	6	6	10
65°	3	5	4	3	3	3
75°	1	2	2	1	1	1
85°	0	0	0	0	0	0
90°	0	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°	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2
0.5°	2335.0	2335.2	2335.0	2335.5	2336.0	2336.5	2336.8	2337.5	2337.0	2335.7	2333.7
1°	2332.7	2333.5	2333.7	2335.2	2336.5	2337.0	2337.5	2337.5	2336.5	2334.2	2331.2
1.5°	2329.1	2330.9	2331.4	2333.5	2335.5	2336.5	2336.8	2336.8	2334.7	2331.9	2328.4
2°	2325.1	2327.6	2328.4	2330.9	2334.0	2334.7	2335.0	2335.0	2332.4	2328.6	2324.3
2.5°	2320.2	2323.3	2324.3	2327.6	2331.4	2332.2	2332.7	2332.4	2329.1	2324.3	2319.5
3°	2314.1	2317.7	2319.5	2323.0	2327.6	2328.9	2329.1	2328.6	2325.3	2319.7	2313.6
3.5°	2307.5	2311.3	2313.6	2317.7	2323.0	2324.6	2324.8	2324.0	2320.2	2313.9	2307.0
4°	2299.4	2304.0	2307.3	2311.8	2317.4	2319.2	2319.7	2319.0	2314.4	2307.3	2299.4
4.5°	2292.3	2296.8	2299.9	2304.2	2310.8	2313.1	2313.9	2312.6	2308.0	2300.1	2291.2
5°	2284.4	2290.0	2291.5	2296.6	2304.0	2306.0	2307.0	2306.0	2301.7	2292.5	2282.6
5.5°	2276.5	2281.8	2282.8	2287.9	2297.1	2298.9	2299.1	2298.9	2295.8	2284.9	2274.2
6°	2268.3	2273.4	2273.9	2280.3	2291.0	2292.0	2291.0	2292.8	2289.2	2277.5	2265.5
6.5°	2261.2	2265.5	2264.5	2272.2	2284.9	2285.4	2282.8	2285.6	2283.1	2269.6	2256.6
7°	2253.3	2257.9	2254.9	2264.0	2278.5	2278.5	2273.9	2278.8	2276.7	2262.0	2248.2
7.5°	2243.9	2249.3	2245.2	2256.4	2272.7	2271.9	2265.5	2271.1	2269.1	2253.6	2239.3
8°	2234.5	2240.1	2236.0	2248.5	2265.8	2265.0	2257.9	2263.0	2261.5	2244.9	2229.9
8.5°	2224.6	2230.2	2226.6	2240.1	2258.4	2257.9	2249.5	2254.3	2253.3	2235.5	2220.5
9°	2212.9	2219.5	2217.5	2230.4	2249.8	2249.5	2242.1	2245.7	2244.2	2226.4	2211.1
9.5°	2200.9	2208.0	2208.0	2221.0	2241.6	2241.1	2234.3	2235.8	2235.0	2217.0	2200.9
10°	2188.5	2196.1	2198.6	2211.1	2232.7	2232.5	2225.9	2225.6	2225.1	2206.8	2190.2
10.5°	2175.5	2183.4	2188.5	2201.2	2223.1	2223.3	2217.7	2215.2	2214.7	2196.6	2178.8
11°	2162.5	2169.4	2178.0	2190.0	2213.1	2213.1	2208.6	2204.5	2203.5	2185.2	2167.1
11.5°	2150.0	2155.6	2166.8	2178.8	2201.7	2202.7	2198.9	2192.8	2192.8	2173.7	2154.9
12°	2137.1	2142.2	2154.6	2166.6	2190.0	2191.3	2189.2	2181.1	2182.4	2162.0	2142.4
12.5°	2123.8	2128.7	2141.9	2154.4	2178.8	2179.0	2179.3	2169.4	2171.7	2151.1	2129.4
13°	2110.1	2114.7	2129.7	2141.7	2167.9	2166.8	2169.4	2158.7	2161.2	2139.9	2117.0
13.5°	2095.1	2101.0	2115.7	2129.7	2157.2	2155.6	2158.7	2147.8	2149.0	2129.2	2103.0
14°	2080.1	2086.5	2102.5	2117.7	2145.5	2144.5	2147.8	2137.3	2136.1	2117.7	2088.7
14.5°	2064.6	2071.2	2088.2	2105.8	2132.0	2132.8	2135.8	2125.6	2123.3	2105.0	2074.5
15°	2049.3	2055.4	2074.5	2093.1	2118.5	2120.5	2123.3	2113.2	2109.9	2091.5	2059.7
15.5°	2033.3	2040.2	2059.7	2079.1	2104.5	2107.1	2110.1	2100.2	2096.4	2077.8	2045.5
16°	2017.0	2024.1	2046.5	2064.8	2091.0	2093.6	2096.9	2088.0	2082.1	2063.6	2031.0
16.5°	2000.0	2008.4	2031.8	2050.3	2077.3	2079.3	2083.9	2074.2	2067.6	2049.3	2016.8
17°	1982.4	1991.8	2016.2	2035.3	2062.5	2065.8	2070.9	2060.8	2052.9	2034.1	2001.0
17.5°	1964.6	1975.8	2000.0	2020.1	2047.8	2051.3	2058.2	2046.8	2036.8	2018.5	1986.0
18°	1946.0	1958.5	1985.2	2004.5	2031.8	2036.8	2046.0	2032.5	2019.8	2002.0	1968.9
18.5°	1927.0	1940.7	1968.4	1988.8	2015.5	2021.3	2032.0	2017.5	2002.8	1985.0	1951.6
19°	1907.9	1922.9	1951.4	1972.0	1998.7	2005.3	2017.5	2001.5	1986.0	1967.4	1934.1
19.5°	1888.5	1904.8	1933.8	1954.2	1980.9	1989.0	2001.7	1985.0	1967.9	1949.9	1916.0
20°	1868.7	1885.7	1916.0	1936.4	1963.3	1972.0	1985.7	1968.2	1950.6	1931.8	1897.7
20.5°	1848.6	1866.7	1896.9	1917.8	1946.0	1954.7	1968.4	1950.9	1933.3	1913.0	1879.4
21°	1827.2	1847.3	1877.4	1899.0	1928.5	1936.9	1951.6	1933.6	1915.8	1894.1	1861.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1761.6	1785.5	1818.1	1840.5	1875.8	1884.5	1896.2	1880.7	1863.1	1837.9	1801.5
23°	1737.9	1763.1	1796.5	1820.4	1858.0	1866.9	1877.1	1862.9	1845.6	1817.8	1779.9
23.5°	1715.1	1741.3	1775.3	1801.3	1840.5	1849.4	1858.0	1845.0	1824.7	1797.7	1757.8
24°	1692.7	1717.6	1753.0	1781.4	1820.6	1829.8	1838.9	1824.9	1804.9	1777.4	1734.9
24.5°	1671.3	1695.2	1729.8	1761.9	1801.5	1811.0	1817.1	1804.9	1785.5	1756.8	1711.7
25°	1650.2	1673.3	1706.7	1741.5	1783.0	1791.1	1794.7	1784.5	1766.9	1735.9	1687.6
25.5°	1627.5	1652.0	1682.7	1720.9	1765.2	1770.8	1771.3	1763.1	1748.1	1716.1	1663.7
26°	1604.1	1632.1	1658.6	1700.3	1745.6	1751.2	1747.9	1742.5	1728.3	1697.0	1639.2
26.5°	1580.2	1611.5	1634.2	1679.9	1724.2	1732.4	1722.7	1722.4	1706.9	1677.9	1614.6
27°	1555.0	1589.9	1608.5	1660.6	1702.3	1714.5	1697.2	1703.6	1684.5	1658.6	1589.9
27.5°	1529.4	1567.3	1583.0	1641.5	1679.7	1695.5	1672.6	1684.5	1661.6	1638.2	1564.7
28°	1502.1	1543.1	1556.3	1620.9	1656.0	1675.4	1647.9	1664.7	1637.7	1616.6	1539.3
28.5°	1475.2	1519.4	1530.4	1599.8	1631.6	1654.5	1623.0	1642.8	1613.3	1594.5	1513.8
29°	1446.7	1495.0	1503.9	1576.7	1605.9	1632.4	1599.1	1621.7	1587.6	1571.3	1487.9
29.5°	1418.2	1469.8	1477.5	1553.5	1579.7	1609.7	1573.1	1598.3	1560.6	1547.2	1460.7
30°	1388.7	1443.4	1451.8	1529.4	1553.0	1586.1	1548.4	1574.4	1533.9	1522.2	1433.2
30.5°	1358.7	1415.6	1426.3	1504.2	1525.0	1561.2	1522.5	1549.7	1505.7	1495.8	1407.0
31°	1326.1	1387.9	1401.1	1478.2	1496.8	1535.7	1496.8	1524.5	1478.0	1469.3	1381.8
31.5°	1297.1	1360.4	1377.7	1451.5	1467.3	1509.3	1470.6	1497.6	1448.5	1441.8	1357.6
32°	1264.8	1332.2	1354.3	1424.5	1437.8	1482.3	1446.2	1471.1	1419.2	1414.4	1335.3
32.5°	1233.3	1303.0	1331.2	1397.6	1407.5	1454.8	1422.3	1443.4	1387.4	1386.4	1313.4
33°	1199.4	1274.0	1308.0	1370.4	1376.7	1426.8	1400.1	1415.4	1356.4	1358.2	1293.0
33.5°	1167.9	1244.2	1284.6	1342.4	1344.7	1398.3	1378.8	1386.6	1323.3	1328.1	1272.2
34°	1133.3	1213.9	1262.3	1313.9	1311.6	1370.1	1358.2	1357.4	1290.0	1298.9	1251.3
34.5°	1099.7	1182.9	1239.9	1284.6	1277.0	1339.8	1337.3	1328.1	1255.6	1267.6	1229.2
35°	1064.8	1151.3	1217.2	1256.1	1242.9	1309.1	1316.7	1298.1	1222.3	1236.8	1207.8
35.5°	1033.1	1119.5	1194.3	1226.4	1209.1	1278.0	1294.8	1268.1	1187.5	1205.3	1184.7
36°	1000.5	1087.7	1169.9	1195.9	1174.7	1247.0	1272.2	1236.8	1153.6	1173.5	1162.0
36.5°	969.2	1055.2	1145.7	1165.1	1141.2	1213.9	1249.0	1205.0	1121.1	1140.9	1138.4
37°	928.5	1023.9	1121.3	1133.5	1108.6	1180.8	1225.1	1173.2	1088.3	1109.1	1114.7
37.5°	883.0	993.1	1097.2	1102.2	1077.6	1147.8	1200.2	1141.4	1049.8	1076.6	1090.5
38°	837.4	962.8	1072.2	1070.7	1038.1	1115.2	1175.3	1109.9	1009.6	1045.3	1067.1
38.5°	792.2	932.1	1047.6	1039.9	995.4	1083.7	1150.6	1078.1	963.9	1014.5	1043.7
39°	746.6	890.3	1024.1	1011.2	949.9	1053.1	1125.9	1048.6	915.8	984.2	1020.6
39.5°	701.1	848.1	1000.2	981.4	898.5	1024.4	1100.5	1018.6	863.9	949.4	996.9
40°	654.0	805.9	977.3	953.7	847.6	988.0	1075.8	987.8	813.3	910.4	974.0
40.5°	607.2	763.7	953.4	920.9	797.2	948.9	1051.6	955.2	764.2	868.5	951.4
41°	564.2	721.4	930.8	879.7	748.9	906.6	1027.5	917.1	716.9	824.2	929.0
41.5°	521.2	676.7	918.3	838.2	702.6	860.1	1004.1	876.6	671.3	778.4	907.4
42°	481.8	633.7	893.6	796.7	656.1	812.8	979.9	833.4	624.8	733.4	885.3
42.5°	443.4	590.7	868.7	755.5	612.8	766.2	957.2	789.4	581.0	690.9	864.1
43°	406.3	547.7	844.0	714.1	566.0	721.7	934.6	745.9	536.0	648.9	843.0
43.5°	367.8	506.7	819.1	672.1	523.0	678.7	911.5	703.1	493.0	609.0	821.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	265.1	395.8	753.7	555.1	401.9	552.0	842.3	582.5	377.0	488.2	756.0
45.5°	233.8	359.7	732.1	515.9	366.3	510.5	818.9	542.1	341.6	450.5	734.9
46°	205.0	325.4	708.5	479.3	329.4	470.9	796.0	502.2	307.3	412.9	713.5
46.5°	176.5	291.8	680.5	441.4	296.6	433.2	773.6	463.7	274.7	379.8	688.9
47°	150.3	260.5	648.2	406.0	267.1	396.6	752.7	426.3	246.2	344.7	665.0
47.5°	125.9	230.2	615.1	370.9	237.8	360.5	726.0	390.7	217.8	312.6	637.0
48°	105.6	201.5	582.3	338.8	208.6	326.1	699.6	355.9	189.0	280.1	609.5
48.5°	87.8	174.3	550.7	305.8	179.1	293.0	669.3	322.6	160.8	251.8	572.6
49°	75.8	148.8	514.1	275.0	150.1	263.8	632.9	289.7	136.9	223.3	533.2
49.5°	64.4	125.2	477.0	244.5	126.9	235.1	595.3	261.5	115.2	195.1	491.0
50°	52.7	103.8	436.5	215.7	106.1	206.1	554.0	233.0	94.6	166.9	449.8
50.5°	41.2	85.0	395.8	187.5	87.0	177.3	513.3	204.8	76.6	143.0	410.6
51°	32.1	73.5	356.1	162.6	70.0	148.3	472.1	176.5	60.5	121.1	372.7
51.5°	23.1	62.1	319.0	138.6	55.7	125.7	432.2	148.3	50.4	101.2	336.0
52°	14.5	50.4	283.9	116.8	46.6	104.8	391.8	125.2	39.9	81.9	299.9
52.5°	8.9	38.9	250.8	96.9	37.4	85.2	354.4	103.8	29.8	64.9	269.9
53°	7.9	30.0	219.0	82.4	28.0	68.4	317.0	84.7	19.3	50.1	239.6
53.5°	7.4	21.6	189.3	68.2	18.8	54.2	281.9	67.2	9.4	41.5	209.6
54°	6.9	13.2	162.0	53.7	9.9	44.8	251.1	51.9	8.9	32.8	179.3
54.5°	6.4	7.4	137.4	39.2	9.4	35.6	220.3	43.0	8.6	24.2	149.3
55°	6.1	6.9	115.0	24.9	9.2	26.5	189.8	34.1	8.4	15.5	126.4
55.5°	5.9	6.4	95.1	14.5	8.6	17.3	159.0	24.9	8.1	7.1	105.6
56°	5.6	6.1	81.7	7.9	8.4	8.1	133.8	16.0	7.9	6.9	86.5
56.5°	5.6	5.6	68.4	7.4	8.1	7.6	110.7	7.4	7.6	6.6	70.0
57°	5.3	5.3	54.9	7.1	7.9	7.4	90.1	7.1	7.4	6.4	55.5
57.5°	5.1	5.3	41.7	6.9	7.6	7.1	71.7	6.9	7.1	6.4	43.8
58°	4.8	5.1	28.5	6.6	7.4	6.9	56.0	6.9	6.9	6.1	36.9
58.5°	4.8	4.8	21.9	6.4	7.1	6.6	43.0	6.6	6.6	5.9	30.3
59°	4.6	4.8	16.8	6.1	6.9	6.6	36.1	6.4	6.4	5.6	23.4
59.5°	4.6	4.6	13.0	5.9	6.6	6.4	29.5	6.1	6.1	5.6	16.8
60°	4.3	4.6	9.9	5.9	6.4	6.1	23.1	5.9	5.9	5.3	10.2
60.5°	4.1	4.3	8.4	5.6	6.1	5.9	16.5	5.9	5.9	5.1	7.6
61°	4.1	4.3	7.1	5.3	6.1	5.6	9.9	5.6	5.6	5.1	5.6
61.5°	3.8	4.1	5.9	5.3	5.9	5.6	7.4	5.3	5.3	4.8	4.6
62°	3.8	4.1	4.3	5.1	5.6	5.3	5.9	5.3	5.1	4.6	4.1
62.5°	3.6	3.8	4.3	4.8	5.3	5.1	4.8	5.1	5.1	4.6	4.1
63°	3.6	3.8	4.1	4.8	5.3	5.1	4.6	4.8	4.8	4.3	3.8
63.5°	3.3	3.6	4.1	4.6	5.1	4.8	4.6	4.8	4.6	4.3	3.8
64°	3.3	3.6	3.8	4.6	4.8	4.8	4.3	4.6	4.6	4.1	3.6
64.5°	3.1	3.3	3.8	4.3	4.8	4.6	4.3	4.3	4.3	4.1	3.6
65°	3.1	3.3	3.6	4.1	4.6	4.3	4.1	4.3	4.1	3.8	3.3
65.5°	2.8	3.3	3.6	4.1	4.3	4.3	4.1	4.1	4.1	3.8	3.3
66°	2.8	3.1	3.3	3.8	4.3	4.1	3.8	4.1	3.8	3.6	3.1





TEST NUMBER: P776178

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.5	2.8	3.1	3.6	3.8	3.8	3.6	3.6	3.3	3.3	2.8
68°	2.3	2.5	3.1	3.3	3.6	3.6	3.3	3.3	3.3	3.1	2.8
68.5°	2.3	2.5	2.8	3.3	3.6	3.6	3.3	3.3	3.1	3.1	2.5
69°	2.3	2.3	2.8	3.1	3.3	3.3	3.1	3.1	3.1	2.8	2.5
69.5°	2.0	2.3	2.5	3.1	3.3	3.3	3.1	3.1	2.8	2.8	2.5
70°	2.0	2.3	2.5	2.8	3.1	3.1	2.8	2.8	2.8	2.5	2.3
70.5°	2.0	2.0	2.3	2.8	3.1	3.1	2.8	2.8	2.8	2.5	2.3
71°	1.8	2.0	2.3	2.5	3.1	2.8	2.5	2.5	2.5	2.5	2.0
71.5°	1.8	2.0	2.3	2.5	2.8	2.8	2.5	2.5	2.5	2.3	2.0
72°	1.8	1.8	2.0	2.5	2.8	2.5	2.3	2.5	2.3	2.3	2.0
72.5°	1.8	1.8	2.0	2.3	2.5	2.5	2.3	2.3	2.3	2.0	1.8
73°	1.5	1.8	1.8	2.3	2.5	2.5	2.0	2.3	2.3	2.0	1.8
73.5°	1.5	1.8	1.8	2.0	2.3	2.3	2.0	2.0	2.0	2.0	1.5
74°	1.5	1.5	1.8	2.0	2.3	2.3	2.0	2.0	2.0	1.8	1.5
74.5°	1.5	1.5	1.5	2.0	2.3	2.3	1.8	2.0	2.0	1.8	1.5
75°	1.3	1.5	1.5	1.8	2.0	2.0	1.8	1.8	1.8	1.8	1.3
75.5°	1.3	1.3	1.5	1.8	2.0	2.0	1.5	1.8	1.8	1.5	1.3
76°	1.3	1.3	1.3	1.8	2.0	1.8	1.5	1.8	1.8	1.5	1.3
76.5°	1.3	1.3	1.3	1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.3
77°	1.0	1.3	1.3	1.5	1.8	1.8	1.3	1.5	1.5	1.3	1.0
77.5°	1.0	1.0	1.0	1.5	1.8	1.5	1.3	1.5	1.5	1.3	1.0
78°	1.0	1.0	1.0	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.0
78.5°	1.0	1.0	1.0	1.3	1.5	1.5	1.0	1.3	1.3	1.3	1.0
79°	1.0	1.0	1.0	1.3	1.5	1.3	1.0	1.3	1.3	1.0	0.8
79.5°	0.8	0.8	0.8	1.3	1.3	1.3	1.0	1.0	1.3	1.0	0.8
80°	0.8	0.8	0.8	1.0	1.3	1.3	1.0	1.0	1.0	1.0	0.8
80.5°	0.8	0.8	0.8	1.0	1.3	1.0	0.8	1.0	1.0	0.8	0.8
81°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	1.0	0.8	0.5
81.5°	0.5	0.8	0.5	0.8	1.0	1.0	0.8	0.8	1.0	0.8	0.5
82°	0.5	0.5	0.5	0.8	1.0	1.0	0.8	0.8	0.8	0.8	0.5
82.5°	0.5	0.5	0.5	0.8	1.0	0.8	0.5	0.8	0.8	0.5	0.5
83°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.8	0.5	0.5
83.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.8	0.5	0.3
84°	0.3	0.3	0.3	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.3
84.5°	0.3	0.3	0.3	0.5	0.8	0.5	0.5	0.5	0.5	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.5	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.5	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.3	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: P776178  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-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: P776178

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2
0.5°	2333.2	2331.7	2332.2	2332.7	2334.0	2335.0
1°	2330.4	2328.4	2327.9	2329.1	2331.2	2332.7
1.5°	2326.3	2323.3	2323.0	2324.3	2327.1	2329.1
2°	2321.5	2317.7	2316.7	2318.5	2321.8	2325.1
2.5°	2315.9	2310.8	2309.8	2311.8	2315.9	2320.2
3°	2309.0	2303.4	2302.7	2304.5	2309.3	2314.1
3.5°	2301.7	2296.1	2294.0	2296.6	2301.4	2307.5
4°	2294.3	2288.7	2286.7	2287.2	2293.0	2299.4
4.5°	2287.2	2281.3	2278.3	2277.8	2283.9	2292.3
5°	2279.5	2273.2	2269.6	2268.6	2275.0	2284.4
5.5°	2271.4	2264.3	2260.2	2258.4	2265.5	2276.5
6°	2262.5	2255.9	2250.8	2248.0	2255.4	2268.3
6.5°	2253.6	2246.0	2241.1	2237.8	2245.7	2261.2
7°	2244.4	2236.0	2229.9	2227.1	2236.5	2253.3
7.5°	2234.0	2224.3	2218.5	2215.9	2226.4	2243.9
8°	2222.8	2212.6	2206.5	2205.3	2215.9	2234.5
8.5°	2210.6	2199.9	2193.3	2193.0	2205.0	2224.6
9°	2198.1	2186.7	2180.1	2181.3	2193.5	2212.9
9.5°	2184.9	2173.5	2165.8	2169.4	2181.6	2200.9
10°	2171.4	2159.5	2152.1	2156.9	2168.9	2188.5
10.5°	2157.9	2145.2	2137.1	2144.2	2155.6	2175.5
11°	2143.7	2131.2	2122.1	2131.0	2142.2	2162.5
11.5°	2129.4	2117.5	2107.1	2117.2	2128.7	2150.0
12°	2115.5	2103.2	2093.1	2103.0	2114.7	2137.1
12.5°	2102.0	2088.0	2078.3	2088.5	2101.2	2123.8
13°	2088.2	2072.7	2064.1	2073.7	2087.5	2110.1
13.5°	2073.2	2057.2	2047.8	2058.5	2074.0	2095.1
14°	2059.0	2041.4	2031.8	2042.4	2060.0	2080.1
14.5°	2043.5	2025.9	2015.5	2026.9	2045.2	2064.6
15°	2028.5	2010.1	2000.0	2011.4	2029.7	2049.3
15.5°	2012.7	1993.9	1983.4	1995.6	2013.7	2033.3
16°	1997.4	1977.1	1967.1	1979.6	1997.7	2017.0
16.5°	1981.6	1960.8	1950.4	1963.1	1981.4	2000.0
17°	1965.6	1943.5	1933.8	1947.1	1964.6	1982.4
17.5°	1949.1	1925.7	1916.8	1929.8	1947.6	1964.6
18°	1932.6	1907.4	1899.0	1912.5	1929.8	1946.0
18.5°	1914.7	1889.6	1881.4	1894.9	1911.4	1927.0
19°	1896.9	1870.7	1862.9	1876.1	1892.9	1907.9
19.5°	1879.1	1851.7	1844.3	1857.8	1873.5	1888.5
20°	1861.3	1832.3	1824.9	1838.7	1853.2	1868.7
20.5°	1843.3	1812.0	1806.1	1819.1	1833.1	1848.6
21°	1823.9	1791.4	1786.8	1799.0	1812.5	1827.2



TEST NUMBER: P776178

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1762.1	1726.0	1724.7	1737.4	1748.6	1761.6
23°	1741.0	1703.4	1703.4	1715.3	1726.2	1737.9
23.5°	1718.4	1683.0	1680.5	1693.9	1703.9	1715.1
24°	1695.7	1662.4	1657.8	1670.5	1681.0	1692.7
24.5°	1672.1	1641.8	1636.7	1647.6	1656.8	1671.3
25°	1649.9	1621.2	1615.8	1623.7	1632.1	1650.2
25.5°	1628.3	1600.3	1596.5	1600.6	1609.2	1627.5
26°	1608.2	1578.7	1575.9	1575.4	1586.6	1604.1
26.5°	1588.6	1556.1	1555.6	1550.5	1565.5	1580.2
27°	1569.0	1532.4	1535.2	1524.8	1543.9	1555.0
27.5°	1548.4	1507.5	1513.6	1498.3	1521.2	1529.4
28°	1527.3	1481.5	1491.7	1471.4	1498.3	1502.1
28.5°	1504.9	1455.6	1468.6	1444.9	1474.7	1475.2
29°	1482.0	1429.1	1444.6	1417.7	1450.0	1446.7
29.5°	1457.9	1401.1	1420.2	1391.0	1424.3	1418.2
30°	1433.7	1373.4	1394.5	1364.0	1398.1	1388.7
30.5°	1408.3	1344.4	1368.3	1338.6	1371.4	1358.7
31°	1383.1	1314.7	1341.1	1313.1	1343.9	1326.1
31.5°	1356.1	1284.4	1313.9	1288.5	1315.9	1297.1
32°	1330.2	1254.1	1286.2	1263.5	1287.4	1264.8
32.5°	1303.0	1222.1	1258.4	1240.4	1258.7	1233.3
33°	1275.2	1190.3	1229.2	1217.2	1229.9	1199.4
33.5°	1247.5	1157.4	1198.9	1195.1	1200.9	1167.9
34°	1219.3	1123.9	1169.1	1173.0	1171.9	1133.3
34.5°	1189.5	1090.3	1137.1	1149.8	1141.4	1099.7
35°	1160.5	1057.0	1105.6	1126.4	1111.4	1064.8
35.5°	1131.0	1025.4	1073.8	1103.0	1081.4	1033.1
36°	1101.2	994.9	1042.0	1078.3	1050.9	1000.5
36.5°	1070.4	963.6	1009.6	1054.2	1020.6	969.2
37°	1039.9	923.9	978.9	1030.5	989.8	928.5
37.5°	1009.6	877.4	948.3	1006.6	959.3	883.0
38°	979.9	830.8	921.6	982.7	929.0	837.4
38.5°	951.9	784.5	880.2	958.5	896.4	792.2
39°	926.0	738.0	838.4	935.9	863.9	746.6
39.5°	897.7	691.4	796.7	909.7	831.1	701.1
40°	861.9	644.9	755.3	888.8	798.5	654.0
40.5°	820.6	598.8	713.8	867.7	765.7	607.2
41°	778.9	554.8	672.1	846.6	726.8	564.2
41.5°	737.5	512.1	629.3	825.5	688.1	521.2
42°	697.3	472.9	586.6	804.1	650.0	481.8
42.5°	656.6	435.5	544.4	782.5	610.0	443.4
43°	615.4	397.9	504.2	761.4	570.3	406.3
43.5°	573.4	360.5	466.0	739.7	531.2	367.8



TEST NUMBER: P776178

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	457.6	259.2	360.2	678.4	423.5	265.1
45.5°	422.0	229.2	326.1	654.3	390.0	233.8
46°	386.7	200.2	294.3	627.8	356.9	205.0
46.5°	352.3	172.5	263.0	594.5	322.8	176.5
47°	319.0	146.3	233.8	562.4	291.8	150.3
47.5°	286.4	123.1	204.5	531.7	260.7	125.9
48°	258.2	103.0	177.3	499.6	231.7	105.6
48.5°	230.0	86.0	151.9	465.3	203.0	87.8
49°	202.0	74.0	128.5	425.6	177.1	75.8
49.5°	173.7	62.3	107.6	386.2	150.8	64.4
50°	145.5	50.9	89.0	350.3	127.4	52.7
50.5°	122.4	39.4	77.3	315.4	106.1	41.2
51°	101.8	30.3	65.9	283.4	88.0	32.1
51.5°	83.9	21.4	54.2	252.3	76.6	23.1
52°	69.2	13.0	42.7	223.1	65.1	14.5
52.5°	56.7	7.6	31.0	195.6	53.7	8.9
53°	46.3	7.1	22.1	169.9	42.2	7.9
53.5°	38.4	6.9	13.7	145.5	31.0	7.4
54°	30.5	6.4	7.6	124.1	22.1	6.9
54.5°	22.4	6.1	7.1	104.6	14.0	6.4
55°	14.5	5.9	6.4	86.7	7.9	6.1
55.5°	6.6	5.6	5.9	73.8	7.1	5.9
56°	5.3	5.3	5.3	60.8	6.4	5.6
56.5°	5.3	5.3	5.1	47.8	5.6	5.6
57°	5.1	5.1	4.8	34.9	5.1	5.3
57.5°	4.8	4.8	4.8	26.5	4.8	5.1
58°	4.8	4.8	4.6	20.1	4.6	4.8
58.5°	4.6	4.6	4.6	14.8	4.6	4.8
59°	4.6	4.3	4.3	10.9	4.3	4.6
59.5°	4.3	4.3	4.3	9.7	4.3	4.6
60°	4.3	4.1	4.1	8.1	4.1	4.3
60.5°	4.1	4.1	4.1	6.6	4.1	4.1
61°	4.1	3.8	3.8	5.1	3.8	4.1
61.5°	3.8	3.8	3.8	3.8	3.8	3.8
62°	3.8	3.6	3.6	3.6	3.6	3.8
62.5°	3.6	3.6	3.6	3.6	3.6	3.6
63°	3.6	3.3	3.3	3.3	3.6	3.6
63.5°	3.3	3.1	3.3	3.3	3.3	3.3
64°	3.3	3.1	3.1	3.3	3.3	3.3
64.5°	3.1	2.8	3.1	3.1	3.1	3.1
65°	3.1	2.8	3.1	3.1	3.1	3.1
65.5°	3.1	2.8	2.8	2.8	3.1	2.8
66°	2.8	2.5	2.8	2.8	2.8	2.8



TEST NUMBER: P776178

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.5	2.3	2.5	2.5	2.5	2.5
68°	2.3	2.3	2.3	2.5	2.5	2.3
68.5°	2.3	2.0	2.3	2.3	2.3	2.3
69°	2.3	2.0	2.3	2.3	2.3	2.3
69.5°	2.0	2.0	2.0	2.3	2.3	2.0
70°	2.0	1.8	2.0	2.0	2.0	2.0
70.5°	2.0	1.8	2.0	2.0	2.0	2.0
71°	1.8	1.8	1.8	1.8	2.0	1.8
71.5°	1.8	1.8	1.8	1.8	1.8	1.8
72°	1.8	1.5	1.8	1.8	1.8	1.8
72.5°	1.8	1.5	1.5	1.5	1.8	1.8
73°	1.5	1.5	1.5	1.5	1.8	1.5
73.5°	1.5	1.5	1.5	1.5	1.5	1.5
74°	1.5	1.3	1.5	1.3	1.5	1.5
74.5°	1.3	1.3	1.3	1.3	1.5	1.5
75°	1.3	1.3	1.3	1.3	1.3	1.3
75.5°	1.3	1.3	1.3	1.3	1.3	1.3
76°	1.3	1.0	1.3	1.0	1.3	1.3
76.5°	1.3	1.0	1.0	1.0	1.3	1.3
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	0.8	1.0	1.0
78.5°	1.0	1.0	1.0	0.8	1.0	1.0
79°	0.8	0.8	0.8	0.8	1.0	1.0
79.5°	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8
80.5°	0.8	0.8	0.8	0.5	0.8	0.8
81°	0.8	0.8	0.8	0.5	0.8	0.8
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	0.3	0.5	0.5
83.5°	0.5	0.5	0.5	0.3	0.3	0.5
84°	0.3	0.5	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.3	0.3	0.3	0.0	0.0	0.3
87°	0.0	0.3	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: P776178

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-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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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°	1806.1	1827.0	1858.0	1879.4	1910.9	1919.3	1934.3	1916.0	1898.2	1875.3	1842.8
22°	1784.5	1806.6	1838.2	1859.5	1893.4	1901.8	1915.5	1898.2	1880.7	1856.7	1822.7



44°	331.7	469.1	797.0	632.9	479.3	636.5	888.6	661.9	451.5	567.5	799.8
44.5°	297.1	431.9	774.6	593.5	441.1	595.0	865.2	622.5	413.1	528.1	777.9



66.5°	2.5	3.1	3.3	3.8	4.1	4.1	3.6	3.8	3.6	3.6	3.1
67°	2.5	2.8	3.3	3.6	3.8	3.8	3.6	3.6	3.6	3.3	3.1



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°	1804.1	1770.5	1765.9	1779.4	1791.9	1806.1
22°	1783.2	1748.1	1745.1	1758.6	1770.5	1784.5



44°	532.7	325.6	430.7	718.4	493.0	331.7
44.5°	494.5	291.0	395.1	697.0	457.6	297.1

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66.5°	2.8	2.5	2.5	2.8	2.8	2.5
67°	2.5	2.3	2.5	2.5	2.5	2.5

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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)