

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: P776176

Luminaire Tested: HCDJBL51525CSD-HCD8TRC-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776176
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-3000K
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

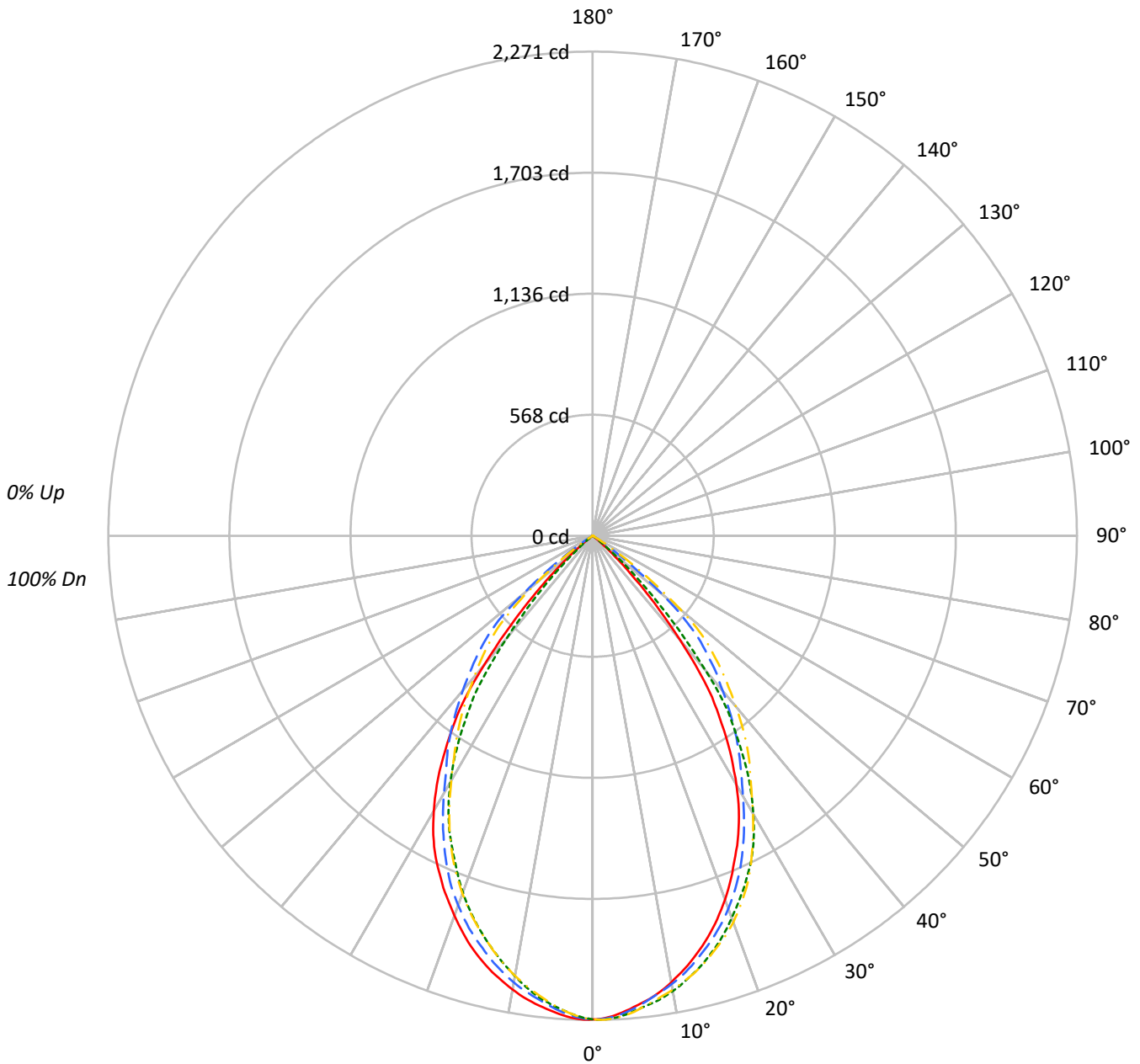
Lumens per Lamp: N/A
Luminaire Lumens: 2693.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	69255	69255	69255	69255
5°	68005	68588	68520	67671
10°	65902	67236	67006	65028
15°	62917	65045	64779	61716
20°	58975	61961	61561	57828
25°	53996	58342	57819	53049
30°	47553	53183	52527	47031
35°	38553	44997	44251	38266
40°	25320	32812	31485	24965
45°	11118	16856	15811	10872
50°	2427	4892	4365	2346
55°	314	474	436	303
60°	256	379	348	244
65°	217	318	289	195
70°	179	268	241	152
75°	142	236	201	142
80°	123	211	176	123
85°	70	175	175	70

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 35327 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	7.8
10°-20°	563.6	20.9
20°-30°	758.1	28.1
30°-40°	716.3	26.6
40°-50°	384.4	14.3
50°-60°	55.6	2.1
60°-70°	3.7	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°	1531.0	56.9
0°-40°	2247.3	83.4
0°-60°	2687.3	99.8
0°-90°	2693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2268	2268	2268	2268	2268	
5°	2219	2238	2236	2208	2219	209
15°	1991	2058	2050	1953	1991	558
25°	1603	1732	1716	1575	1603	732
35°	1034	1207	1187	1027	1034	633
45°	258	390	366	252	258	214
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	



TEST NUMBER: P776176

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
0.5°	2268.1	2268.4	2268.1	2268.6	2269.1	2269.6	2269.9	2270.6	2270.1	2268.9	2266.9
1°	2265.9	2266.7	2266.9	2268.4	2269.6	2270.1	2270.6	2270.6	2269.6	2267.4	2264.4
1.5°	2262.5	2264.2	2264.7	2266.7	2268.6	2269.6	2269.9	2269.9	2267.9	2265.2	2261.7
2°	2258.5	2261.0	2261.7	2264.2	2267.2	2267.9	2268.1	2268.1	2265.7	2262.0	2257.8
2.5°	2253.8	2256.8	2257.8	2261.0	2264.7	2265.4	2265.9	2265.7	2262.5	2257.8	2253.1
3°	2247.9	2251.3	2253.1	2256.5	2261.0	2262.2	2262.5	2262.0	2258.8	2253.3	2247.4
3.5°	2241.5	2245.2	2247.4	2251.3	2256.5	2258.0	2258.3	2257.5	2253.8	2247.6	2241.0
4°	2233.5	2238.0	2241.2	2245.7	2251.1	2252.8	2253.3	2252.6	2248.1	2241.2	2233.5
4.5°	2226.6	2231.1	2234.0	2238.2	2244.7	2246.9	2247.6	2246.4	2241.9	2234.3	2225.6
5°	2219.0	2224.4	2225.9	2230.8	2238.0	2240.0	2241.0	2240.0	2235.8	2226.9	2217.2
5.5°	2211.3	2216.5	2217.5	2222.4	2231.3	2233.1	2233.3	2233.1	2230.1	2219.5	2209.1
6°	2203.4	2208.3	2208.8	2215.0	2225.4	2226.4	2225.4	2227.1	2223.7	2212.3	2200.7
6.5°	2196.5	2200.7	2199.7	2207.1	2219.5	2220.0	2217.5	2220.2	2217.7	2204.6	2192.0
7°	2188.8	2193.3	2190.3	2199.2	2213.3	2213.3	2208.8	2213.5	2211.6	2197.2	2183.9
7.5°	2179.7	2184.9	2180.9	2191.8	2207.6	2206.9	2200.7	2206.1	2204.1	2189.1	2175.2
8°	2170.5	2176.0	2172.0	2184.1	2200.9	2200.2	2193.3	2198.2	2196.7	2180.7	2166.1
8.5°	2160.9	2166.3	2162.9	2176.0	2193.8	2193.3	2185.1	2189.8	2188.8	2171.5	2156.9
9°	2149.5	2156.0	2154.0	2166.6	2185.4	2185.1	2177.9	2181.4	2179.9	2162.6	2147.8
9.5°	2137.9	2144.8	2144.8	2157.4	2177.5	2177.0	2170.3	2171.8	2171.0	2153.5	2137.9
10°	2125.8	2133.2	2135.7	2147.8	2168.8	2168.6	2162.1	2161.9	2161.4	2143.6	2127.5
10.5°	2113.2	2120.9	2125.8	2138.2	2159.4	2159.7	2154.2	2151.8	2151.3	2133.7	2116.4
11°	2100.6	2107.3	2115.7	2127.3	2149.8	2149.8	2145.3	2141.4	2140.4	2122.6	2105.1
11.5°	2088.5	2093.9	2104.8	2116.4	2138.7	2139.6	2135.9	2130.0	2130.0	2111.5	2093.2
12°	2075.9	2080.8	2092.9	2104.6	2127.3	2128.5	2126.6	2118.6	2119.9	2100.1	2081.1
12.5°	2063.0	2067.7	2080.6	2092.7	2116.4	2116.7	2116.9	2107.3	2109.5	2089.5	2068.5
13°	2049.7	2054.2	2068.7	2080.3	2105.8	2104.8	2107.3	2096.9	2099.4	2078.6	2056.4
13.5°	2035.1	2040.8	2055.1	2068.7	2095.4	2093.9	2096.9	2086.3	2087.5	2068.2	2042.8
14°	2020.5	2026.7	2042.3	2057.1	2084.1	2083.1	2086.3	2076.1	2074.9	2057.1	2028.9
14.5°	2005.5	2011.9	2028.5	2045.5	2071.0	2071.7	2074.7	2064.8	2062.6	2044.8	2015.1
15°	1990.6	1996.6	2015.1	2033.1	2057.9	2059.8	2062.6	2052.7	2049.5	2031.7	2000.8
15.5°	1975.1	1981.8	2000.8	2019.6	2044.3	2046.7	2049.7	2040.1	2036.4	2018.3	1986.9
16°	1959.3	1966.2	1987.9	2005.7	2031.2	2033.6	2036.9	2028.2	2022.5	2004.5	1972.9
16.5°	1942.7	1950.9	1973.6	1991.6	2017.8	2019.8	2024.3	2014.9	2008.4	1990.6	1959.0
17°	1925.7	1934.8	1958.5	1977.1	2003.5	2006.7	2011.7	2001.8	1994.1	1975.8	1943.7
17.5°	1908.4	1919.2	1942.7	1962.2	1989.2	1992.6	1999.3	1988.2	1978.5	1960.7	1929.1
18°	1890.3	1902.4	1928.4	1947.2	1973.6	1978.5	1987.4	1974.3	1962.0	1944.7	1912.6
18.5°	1871.8	1885.1	1912.1	1931.8	1957.8	1963.5	1973.8	1959.8	1945.4	1928.1	1895.8
19°	1853.3	1867.8	1895.5	1915.5	1941.5	1947.9	1959.8	1944.2	1929.1	1911.1	1878.7
19.5°	1834.5	1850.3	1878.5	1898.2	1924.2	1932.1	1944.4	1928.1	1911.6	1894.0	1861.2
20°	1815.2	1831.8	1861.2	1880.9	1907.1	1915.5	1928.9	1911.8	1894.8	1876.5	1843.4
20.5°	1795.7	1813.2	1842.6	1862.9	1890.3	1898.7	1912.1	1895.0	1878.0	1858.2	1825.6
21°	1774.9	1794.4	1823.6	1844.6	1873.3	1881.4	1895.8	1878.2	1860.9	1839.9	1807.8



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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°	1711.2	1734.4	1766.0	1787.8	1822.1	1830.5	1841.9	1826.8	1809.8	1785.3	1750.0
23°	1688.2	1712.7	1745.0	1768.3	1804.8	1813.5	1823.4	1809.5	1792.7	1765.8	1729.0
23.5°	1666.0	1691.4	1724.5	1749.7	1787.8	1796.4	1804.8	1792.2	1772.5	1746.3	1707.5
24°	1644.2	1668.4	1702.8	1730.4	1768.5	1777.4	1786.3	1772.7	1753.2	1726.5	1685.2
24.5°	1623.5	1646.7	1680.3	1711.4	1750.0	1759.1	1765.0	1753.2	1734.4	1706.5	1662.7
25°	1602.9	1625.4	1657.8	1691.7	1731.9	1739.8	1743.3	1733.4	1716.4	1686.2	1639.3
25.5°	1581.0	1604.7	1634.6	1671.6	1714.6	1720.1	1720.6	1712.7	1698.1	1666.9	1616.0
26°	1558.2	1585.4	1611.1	1651.6	1695.6	1701.0	1697.8	1692.6	1678.8	1648.4	1592.3
26.5°	1535.0	1565.4	1587.4	1631.9	1674.9	1682.8	1673.4	1673.1	1658.0	1629.9	1568.4
27°	1510.5	1544.4	1562.4	1613.1	1653.6	1665.5	1648.7	1654.8	1636.3	1611.1	1544.4
27.5°	1485.6	1522.4	1537.7	1594.5	1631.6	1646.9	1624.7	1636.3	1614.1	1591.3	1519.9
28°	1459.1	1498.9	1511.8	1574.5	1608.6	1627.4	1600.7	1617.0	1590.8	1570.3	1495.2
28.5°	1432.9	1475.9	1486.6	1554.0	1584.9	1607.1	1576.5	1595.8	1567.1	1548.8	1470.5
29°	1405.3	1452.2	1460.9	1531.5	1559.9	1585.6	1553.3	1575.3	1542.2	1526.3	1445.3
29.5°	1377.6	1427.8	1435.2	1509.0	1534.5	1563.7	1528.1	1552.5	1516.0	1502.9	1418.9
30°	1348.9	1402.1	1410.2	1485.6	1508.6	1540.7	1504.1	1529.3	1490.0	1478.7	1392.2
30.5°	1319.8	1375.1	1385.5	1461.1	1481.4	1516.5	1478.9	1505.3	1462.6	1453.0	1366.7
31°	1288.1	1348.2	1361.0	1435.9	1453.9	1491.7	1453.9	1480.9	1435.7	1427.3	1342.3
31.5°	1260.0	1321.5	1338.3	1410.0	1425.3	1466.1	1428.5	1454.7	1407.0	1400.6	1318.8
32°	1228.6	1294.1	1315.6	1383.8	1396.6	1439.9	1404.8	1429.0	1378.6	1373.9	1297.0
32.5°	1197.9	1265.7	1293.1	1357.6	1367.2	1413.2	1381.5	1402.1	1347.7	1346.7	1275.8
33°	1165.1	1237.5	1270.6	1331.1	1337.3	1386.0	1360.0	1374.9	1317.5	1319.3	1256.0
33.5°	1134.4	1208.6	1247.9	1304.0	1306.2	1358.3	1339.3	1346.9	1285.4	1290.1	1235.8
34°	1100.8	1179.2	1226.1	1276.3	1274.1	1330.9	1319.3	1318.5	1253.0	1261.7	1215.5
34.5°	1068.2	1149.0	1204.4	1247.9	1240.4	1301.5	1299.0	1290.1	1219.7	1231.3	1194.0
35°	1034.4	1118.4	1182.4	1220.2	1207.3	1271.6	1279.0	1261.0	1187.3	1201.4	1173.2
35.5°	1003.5	1087.5	1160.1	1191.3	1174.5	1241.4	1257.7	1231.8	1153.5	1170.8	1150.7
36°	971.8	1056.6	1136.4	1161.6	1141.1	1211.3	1235.8	1201.4	1120.6	1139.9	1128.8
36.5°	941.5	1025.0	1112.9	1131.7	1108.5	1179.2	1213.3	1170.5	1089.0	1108.2	1105.8
37°	901.9	994.6	1089.2	1101.1	1076.9	1147.0	1190.0	1139.6	1057.1	1077.4	1082.8
37.5°	857.7	964.7	1065.7	1070.7	1046.7	1114.9	1165.8	1108.7	1019.8	1045.7	1059.3
38°	813.5	935.3	1041.5	1040.0	1008.4	1083.3	1141.6	1078.1	980.7	1015.3	1036.6
38.5°	769.5	905.4	1017.6	1010.1	966.9	1052.7	1117.6	1047.2	936.3	985.4	1013.9
39°	725.2	864.9	994.8	982.2	922.7	1023.0	1093.7	1018.6	889.6	956.0	991.4
39.5°	681.0	823.8	971.6	953.3	872.8	995.1	1069.0	989.4	839.2	922.2	968.4
40°	635.3	782.8	949.4	926.4	823.3	959.7	1045.0	959.5	790.0	884.4	946.2
40.5°	589.8	741.8	926.1	894.5	774.4	921.7	1021.5	927.9	742.3	843.6	924.2
41°	548.1	700.8	904.1	854.5	727.5	880.7	998.0	890.8	696.3	800.6	902.4
41.5°	506.3	657.3	892.0	814.2	682.5	835.4	975.3	851.5	652.1	756.1	881.4
42°	468.0	615.5	868.1	773.9	637.3	789.5	951.8	809.5	606.9	712.4	859.9
42.5°	430.7	573.8	843.9	733.9	595.3	744.3	929.8	766.8	564.4	671.1	839.4
43°	394.6	532.0	819.9	693.6	549.8	701.0	907.8	724.5	520.6	630.4	818.9
43.5°	357.3	492.2	795.7	652.8	508.0	659.3	885.4	683.0	478.9	591.6	797.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	257.5	384.5	732.2	539.2	390.4	536.2	818.2	565.9	366.2	474.2	734.4
45.5°	227.1	349.4	711.2	501.1	355.8	495.9	795.4	526.6	331.9	437.6	713.9
46°	199.2	316.0	688.2	465.5	320.0	457.4	773.2	487.8	298.5	401.0	693.1
46.5°	171.5	283.4	661.0	428.7	288.1	420.8	751.4	450.5	266.9	368.9	669.1
47°	146.0	253.0	629.6	394.4	259.5	385.2	731.2	414.1	239.2	334.8	645.9
47.5°	122.3	223.6	597.5	360.3	231.0	350.1	705.2	379.5	211.5	303.7	618.7
48°	102.5	195.7	565.6	329.1	202.6	316.8	679.5	345.7	183.6	272.1	592.1
48.5°	85.2	169.3	535.0	297.0	174.0	284.7	650.1	313.3	156.2	244.6	556.2
49°	73.6	144.6	499.4	267.1	145.8	256.2	614.8	281.4	132.9	217.0	517.9
49.5°	62.5	121.6	463.3	237.5	123.3	228.3	578.2	254.0	111.9	189.5	476.9
50°	51.1	100.8	424.0	209.5	103.0	200.2	538.2	226.3	91.9	162.1	436.9
50.5°	40.0	82.5	384.5	182.1	84.5	172.2	498.7	198.9	74.4	138.9	398.8
51°	31.1	71.4	345.9	157.9	68.0	144.1	458.6	171.5	58.8	117.6	362.0
51.5°	22.5	60.3	309.9	134.7	54.1	122.1	419.8	144.1	48.9	98.3	326.4
52°	14.1	48.9	275.8	113.4	45.2	101.8	380.5	121.6	38.8	79.6	291.3
52.5°	8.6	37.8	243.6	94.1	36.3	82.8	344.2	100.8	28.9	63.0	262.2
53°	7.7	29.2	212.8	80.1	27.2	66.5	307.9	82.3	18.8	48.7	232.8
53.5°	7.2	21.0	183.8	66.2	18.3	52.6	273.8	65.2	9.1	40.3	203.6
54°	6.7	12.8	157.4	52.1	9.6	43.5	243.9	50.4	8.6	31.9	174.2
54.5°	6.2	7.2	133.4	38.1	9.1	34.6	214.0	41.8	8.4	23.5	145.0
55°	5.9	6.7	111.7	24.2	8.9	25.7	184.3	33.1	8.2	15.1	122.8
55.5°	5.7	6.2	92.4	14.1	8.4	16.8	154.4	24.2	7.9	6.9	102.5
56°	5.4	5.9	79.3	7.7	8.2	7.9	130.0	15.6	7.7	6.7	84.0
56.5°	5.4	5.4	66.5	7.2	7.9	7.4	107.5	7.2	7.4	6.4	68.0
57°	5.2	5.2	53.4	6.9	7.7	7.2	87.5	6.9	7.2	6.2	53.9
57.5°	4.9	5.2	40.5	6.7	7.4	6.9	69.7	6.7	6.9	6.2	42.5
58°	4.7	4.9	27.7	6.4	7.2	6.7	54.4	6.7	6.7	5.9	35.8
58.5°	4.7	4.7	21.3	6.2	6.9	6.4	41.8	6.4	6.4	5.7	29.4
59°	4.4	4.7	16.3	5.9	6.7	6.4	35.1	6.2	6.2	5.4	22.7
59.5°	4.4	4.4	12.6	5.7	6.4	6.2	28.7	5.9	5.9	5.4	16.3
60°	4.2	4.4	9.6	5.7	6.2	5.9	22.5	5.7	5.7	5.2	9.9
60.5°	4.0	4.2	8.2	5.4	5.9	5.7	16.1	5.7	5.7	4.9	7.4
61°	4.0	4.2	6.9	5.2	5.9	5.4	9.6	5.4	5.4	4.9	5.4
61.5°	3.7	4.0	5.7	5.2	5.7	5.4	7.2	5.2	5.2	4.7	4.4
62°	3.7	4.0	4.2	4.9	5.4	5.2	5.7	5.2	4.9	4.4	4.0
62.5°	3.5	3.7	4.2	4.7	5.2	4.9	4.7	4.9	4.9	4.4	4.0
63°	3.5	3.7	4.0	4.7	5.2	4.9	4.4	4.7	4.7	4.2	3.7
63.5°	3.2	3.5	4.0	4.4	4.9	4.7	4.4	4.7	4.4	4.2	3.7
64°	3.2	3.5	3.7	4.4	4.7	4.7	4.2	4.4	4.4	4.0	3.5
64.5°	3.0	3.2	3.7	4.2	4.7	4.4	4.2	4.2	4.2	4.0	3.5
65°	3.0	3.2	3.5	4.0	4.4	4.2	4.0	4.2	4.0	3.7	3.2
65.5°	2.7	3.2	3.5	4.0	4.2	4.2	4.0	4.0	4.0	3.7	3.2
66°	2.7	3.0	3.2	3.7	4.2	4.0	3.7	4.0	3.7	3.5	3.0



TEST NUMBER: P776176

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.5	2.7	3.0	3.5	3.7	3.7	3.5	3.5	3.2	3.2	2.7
68°	2.2	2.5	3.0	3.2	3.5	3.5	3.2	3.2	3.2	3.0	2.7
68.5°	2.2	2.5	2.7	3.2	3.5	3.5	3.2	3.2	3.0	3.0	2.5
69°	2.2	2.2	2.7	3.0	3.2	3.2	3.0	3.0	3.0	2.7	2.5
69.5°	2.0	2.2	2.5	3.0	3.2	3.2	3.0	3.0	2.7	2.7	2.5
70°	2.0	2.2	2.5	2.7	3.0	3.0	2.7	2.7	2.7	2.5	2.2
70.5°	2.0	2.0	2.2	2.7	3.0	3.0	2.7	2.7	2.7	2.5	2.2
71°	1.7	2.0	2.2	2.5	3.0	2.7	2.5	2.5	2.5	2.5	2.0
71.5°	1.7	2.0	2.2	2.5	2.7	2.7	2.5	2.5	2.5	2.2	2.0
72°	1.7	1.7	2.0	2.5	2.7	2.5	2.2	2.5	2.2	2.2	2.0
72.5°	1.7	1.7	2.0	2.2	2.5	2.5	2.2	2.2	2.2	2.0	1.7
73°	1.5	1.7	1.7	2.2	2.5	2.5	2.0	2.2	2.2	2.0	1.7
73.5°	1.5	1.7	1.7	2.0	2.2	2.2	2.0	2.0	2.0	2.0	1.5
74°	1.5	1.5	1.7	2.0	2.2	2.2	2.0	2.0	2.0	1.7	1.5
74.5°	1.5	1.5	1.5	2.0	2.2	2.2	1.7	2.0	2.0	1.7	1.5
75°	1.2	1.5	1.5	1.7	2.0	2.0	1.7	1.7	1.7	1.7	1.2
75.5°	1.2	1.2	1.5	1.7	2.0	2.0	1.5	1.7	1.7	1.5	1.2
76°	1.2	1.2	1.2	1.7	2.0	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: P776176
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-2500lm-3000K

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: P776176

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
0.5°	2266.4	2264.9	2265.4	2265.9	2267.2	2268.1
1°	2263.7	2261.7	2261.2	2262.5	2264.4	2265.9
1.5°	2259.7	2256.8	2256.5	2257.8	2260.5	2262.5
2°	2255.0	2251.3	2250.3	2252.1	2255.3	2258.5
2.5°	2249.6	2244.7	2243.7	2245.7	2249.6	2253.8
3°	2242.9	2237.5	2236.8	2238.5	2243.2	2247.9
3.5°	2235.8	2230.3	2228.4	2230.8	2235.5	2241.5
4°	2228.6	2223.2	2221.2	2221.7	2227.4	2233.5
4.5°	2221.7	2216.0	2213.0	2212.5	2218.5	2226.6
5°	2214.3	2208.1	2204.6	2203.6	2209.8	2219.0
5.5°	2206.4	2199.4	2195.5	2193.8	2200.7	2211.3
6°	2197.7	2191.3	2186.4	2183.6	2190.8	2203.4
6.5°	2189.1	2181.7	2177.0	2173.7	2181.4	2196.5
7°	2180.2	2172.0	2166.1	2163.4	2172.5	2188.8
7.5°	2170.0	2160.7	2155.0	2152.5	2162.6	2179.7
8°	2159.2	2149.3	2143.4	2142.1	2152.5	2170.5
8.5°	2147.3	2136.9	2130.5	2130.3	2141.9	2160.9
9°	2135.2	2124.1	2117.7	2118.9	2130.8	2149.5
9.5°	2122.4	2111.2	2103.8	2107.3	2119.1	2137.9
10°	2109.3	2097.6	2090.5	2095.2	2106.8	2125.8
10.5°	2096.2	2083.8	2075.9	2082.8	2093.9	2113.2
11°	2082.3	2070.2	2061.3	2070.0	2080.8	2100.6
11.5°	2068.5	2056.9	2046.7	2056.6	2067.7	2088.5
12°	2054.9	2043.0	2033.1	2042.8	2054.2	2075.9
12.5°	2041.8	2028.2	2018.8	2028.7	2041.1	2063.0
13°	2028.5	2013.4	2005.0	2014.4	2027.7	2049.7
13.5°	2013.9	1998.3	1989.2	1999.5	2014.6	2035.1
14°	2000.0	1983.0	1973.6	1984.0	2001.0	2020.5
14.5°	1985.0	1967.9	1957.8	1968.9	1986.7	2005.5
15°	1970.4	1952.6	1942.7	1953.8	1971.6	1990.6
15.5°	1955.1	1936.8	1926.6	1938.5	1956.1	1975.1
16°	1940.2	1920.5	1910.8	1922.9	1940.5	1959.3
16.5°	1924.9	1904.7	1894.5	1906.9	1924.7	1942.7
17°	1909.4	1887.9	1878.5	1891.3	1908.4	1925.7
17.5°	1893.3	1870.6	1861.9	1874.5	1891.8	1908.4
18°	1877.2	1852.8	1844.6	1857.7	1874.5	1890.3
18.5°	1859.9	1835.5	1827.6	1840.7	1856.7	1871.8
19°	1842.6	1817.2	1809.5	1822.4	1838.7	1853.3
19.5°	1825.3	1798.6	1791.5	1804.6	1819.9	1834.5
20°	1808.0	1779.9	1772.7	1786.0	1800.1	1815.2
20.5°	1790.5	1760.1	1754.4	1767.0	1780.6	1795.7
21°	1771.7	1740.1	1735.6	1747.5	1760.6	1774.9



TEST NUMBER: P776176

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1711.7	1676.6	1675.3	1687.7	1698.6	1711.2
23°	1691.2	1654.6	1654.6	1666.2	1676.8	1688.2
23.5°	1669.2	1634.8	1632.4	1645.4	1655.1	1666.0
24°	1647.2	1614.8	1610.4	1622.7	1632.8	1644.2
24.5°	1624.2	1594.8	1589.8	1600.5	1609.4	1623.5
25°	1602.7	1574.8	1569.6	1577.2	1585.4	1602.9
25.5°	1581.7	1554.5	1550.8	1554.8	1563.2	1581.0
26°	1562.2	1533.5	1530.8	1530.3	1541.2	1558.2
26.5°	1543.1	1511.5	1511.0	1506.1	1520.7	1535.0
27°	1524.1	1488.5	1491.3	1481.1	1499.7	1510.5
27.5°	1504.1	1464.3	1470.3	1455.4	1477.7	1485.6
28°	1483.6	1439.1	1449.0	1429.2	1455.4	1459.1
28.5°	1461.9	1413.9	1426.5	1403.5	1432.4	1432.9
29°	1439.6	1388.2	1403.3	1377.1	1408.5	1405.3
29.5°	1416.1	1361.0	1379.6	1351.1	1383.5	1377.6
30°	1392.7	1334.1	1354.6	1325.0	1358.1	1348.9
30.5°	1368.0	1305.9	1329.2	1300.2	1332.1	1319.8
31°	1343.5	1277.0	1302.7	1275.5	1305.4	1288.1
31.5°	1317.3	1247.6	1276.3	1251.6	1278.3	1260.0
32°	1292.1	1218.2	1249.3	1227.4	1250.6	1228.6
32.5°	1265.7	1187.1	1222.4	1204.9	1222.7	1197.9
33°	1238.7	1156.2	1194.0	1182.4	1194.7	1165.1
33.5°	1211.8	1124.3	1164.6	1160.9	1166.6	1134.4
34°	1184.4	1091.7	1135.7	1139.4	1138.4	1100.8
34.5°	1155.4	1059.1	1104.5	1116.9	1108.7	1068.2
35°	1127.3	1026.7	1073.9	1094.2	1079.6	1034.4
35.5°	1098.6	996.1	1043.0	1071.4	1050.4	1003.5
36°	1069.7	966.4	1012.1	1047.5	1020.8	971.8
36.5°	1039.8	936.0	980.7	1024.0	991.4	941.5
37°	1010.1	897.5	950.8	1001.0	961.5	901.9
37.5°	980.7	852.3	921.2	977.8	931.8	857.7
38°	951.8	807.0	895.2	954.6	902.4	813.5
38.5°	924.7	762.1	855.0	931.1	870.8	769.5
39°	899.4	716.8	814.4	909.1	839.2	725.2
39.5°	872.0	671.6	773.9	883.6	807.3	681.0
40°	837.2	626.4	733.6	863.4	775.7	635.3
40.5°	797.1	581.7	693.4	842.9	743.8	589.8
41°	756.6	538.9	652.8	822.4	706.0	548.1
41.5°	716.3	497.4	611.3	801.8	668.4	506.3
42°	677.3	459.4	569.8	781.1	631.3	468.0
42.5°	637.8	423.0	528.8	760.1	592.5	430.7
43°	597.7	386.5	489.8	739.6	554.0	394.6
43.5°	557.0	350.1	452.7	718.6	515.9	357.3



TEST NUMBER: P776176

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	444.5	251.8	349.9	659.0	411.4	257.5
45.5°	409.9	222.6	316.8	635.5	378.8	227.1
46°	375.6	194.5	285.9	609.8	346.7	199.2
46.5°	342.2	167.5	255.5	577.5	313.6	171.5
47°	309.9	142.1	227.1	546.3	283.4	146.0
47.5°	278.2	119.6	198.7	516.4	253.3	122.3
48°	250.8	100.1	172.2	485.3	225.1	102.5
48.5°	223.4	83.5	147.5	451.9	197.2	85.2
49°	196.2	71.9	124.8	413.4	172.0	73.6
49.5°	168.8	60.5	104.5	375.1	146.5	62.5
50°	141.3	49.4	86.5	340.3	123.8	51.1
50.5°	118.9	38.3	75.1	306.4	103.0	40.0
51°	98.8	29.4	64.0	275.3	85.5	31.1
51.5°	81.5	20.8	52.6	245.1	74.4	22.5
52°	67.2	12.6	41.5	216.7	63.3	14.1
52.5°	55.1	7.4	30.1	190.0	52.1	8.6
53°	45.0	6.9	21.5	165.1	41.0	7.7
53.5°	37.3	6.7	13.3	141.3	30.1	7.2
54°	29.7	6.2	7.4	120.6	21.5	6.7
54.5°	21.7	5.9	6.9	101.6	13.6	6.2
55°	14.1	5.7	6.2	84.3	7.7	5.9
55.5°	6.4	5.4	5.7	71.7	6.9	5.7
56°	5.2	5.2	5.2	59.1	6.2	5.4
56.5°	5.2	5.2	4.9	46.5	5.4	5.4
57°	4.9	4.9	4.7	33.9	4.9	5.2
57.5°	4.7	4.7	4.7	25.7	4.7	4.9
58°	4.7	4.7	4.4	19.5	4.4	4.7
58.5°	4.4	4.4	4.4	14.3	4.4	4.7
59°	4.4	4.2	4.2	10.6	4.2	4.4
59.5°	4.2	4.2	4.2	9.4	4.2	4.4
60°	4.2	4.0	4.0	7.9	4.0	4.2
60.5°	4.0	4.0	4.0	6.4	4.0	4.0
61°	4.0	3.7	3.7	4.9	3.7	4.0
61.5°	3.7	3.7	3.7	3.7	3.7	3.7
62°	3.7	3.5	3.5	3.5	3.5	3.7
62.5°	3.5	3.5	3.5	3.5	3.5	3.5
63°	3.5	3.2	3.2	3.2	3.5	3.5
63.5°	3.2	3.0	3.2	3.2	3.2	3.2
64°	3.2	3.0	3.0	3.2	3.2	3.2
64.5°	3.0	2.7	3.0	3.0	3.0	3.0
65°	3.0	2.7	3.0	3.0	3.0	3.0
65.5°	3.0	2.7	2.7	2.7	3.0	2.7
66°	2.7	2.5	2.7	2.7	2.7	2.7



TEST NUMBER: P776176
 CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.5	2.2	2.5	2.5	2.5	2.5
68°	2.2	2.2	2.2	2.5	2.5	2.2
68.5°	2.2	2.0	2.2	2.2	2.2	2.2
69°	2.2	2.0	2.2	2.2	2.2	2.2
69.5°	2.0	2.0	2.0	2.2	2.2	2.0
70°	2.0	1.7	2.0	2.0	2.0	2.0
70.5°	2.0	1.7	2.0	2.0	2.0	2.0
71°	1.7	1.7	1.7	1.7	2.0	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: P776176

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

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

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

Scaled Data Report



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Scaled Data Report





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

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Scaled Data Report



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21.5°	1754.4	1774.7	1804.8	1825.6	1856.2	1864.4	1879.0	1861.2	1843.9	1821.6	1790.0
22°	1733.4	1754.9	1785.6	1806.3	1839.2	1847.3	1860.7	1843.9	1826.8	1803.6	1770.5



44°	322.2	455.7	774.2	614.8	465.5	618.2	863.1	643.0	438.6	551.3	776.9
44.5°	288.6	419.6	752.4	576.5	428.5	578.0	840.4	604.7	401.3	513.0	755.6



66.5°	2.5	3.0	3.2	3.7	4.0	4.0	3.5	3.7	3.5	3.5	3.0
67°	2.5	2.7	3.2	3.5	3.7	3.7	3.5	3.5	3.5	3.2	3.0



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°	1752.4	1719.8	1715.4	1728.5	1740.6	1754.4
22°	1732.2	1698.1	1695.1	1708.2	1719.8	1733.4



44°	517.4	316.3	418.3	697.8	478.9	322.2
44.5°	480.4	282.7	383.7	677.1	444.5	288.6

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66.5°	2.7	2.5	2.5	2.7	2.7	2.5
67°	2.5	2.2	2.5	2.5	2.5	2.5

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Scaled Data Report



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)