

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: P775956

Luminaire Tested: HCDJBL51525CSD-HCD42TRH-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B050)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD42TRH-2500lm-3000K
Description: 4 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

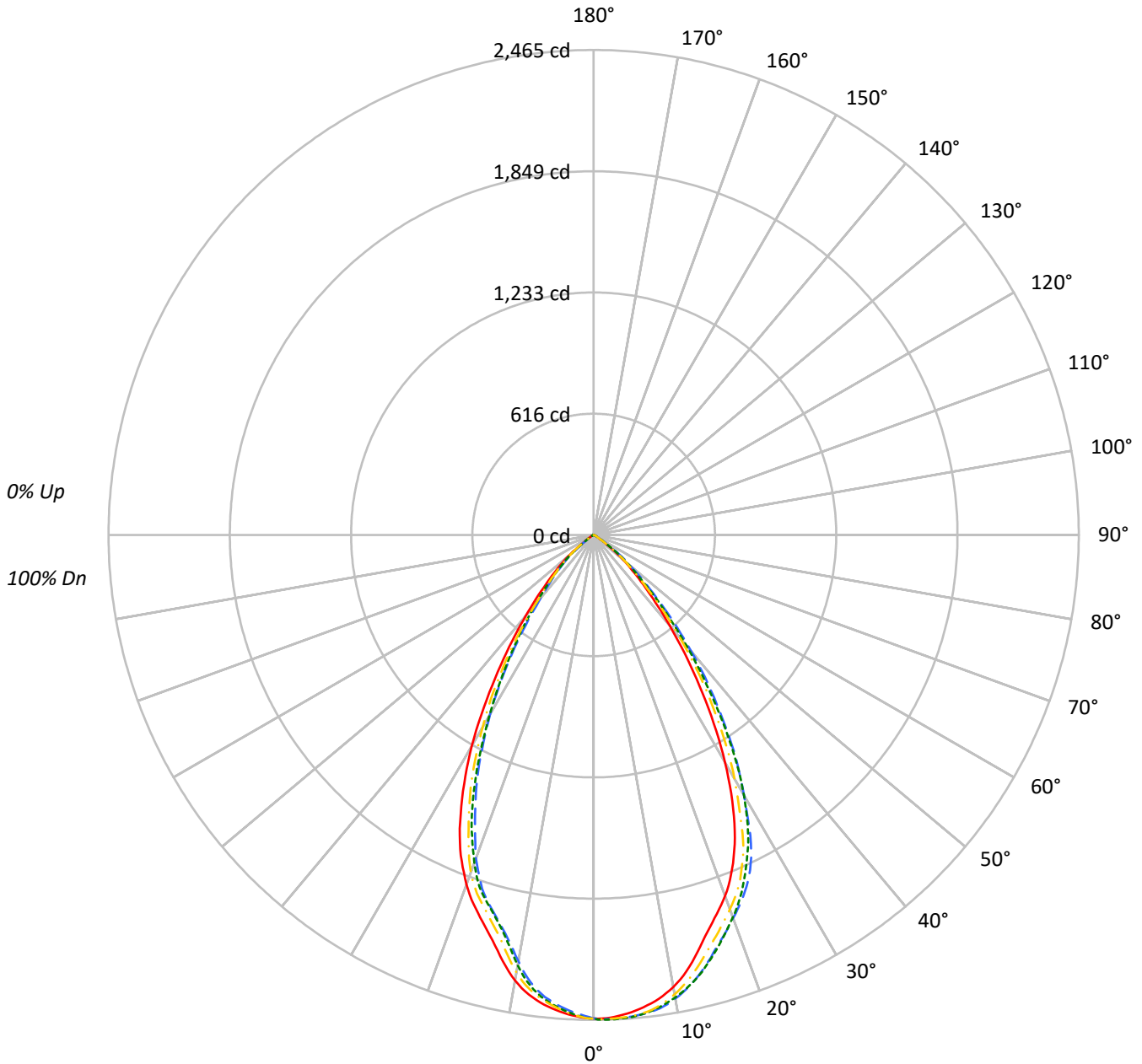
Lumens per Lamp: N/A
Luminaire Lumens: 2480.7 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.92
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93					93			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	84	90	86	83	88	85	82	86	83	80	79					79			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62					62			
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58					58			
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54					54			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50					50			
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	309402	309402	309402	309402
5°	306718	310116	305252	302625
10°	298137	305025	293920	283914
15°	278741	293164	271640	258637
20°	261532	277107	253188	237385
25°	235742	255280	222953	200083
30°	193986	221698	179818	153951
35°	144232	172086	130574	111001
40°	98538	119994	88024	75489
45°	63289	74982	56117	48036
50°	38100	43406	32677	26451
55°	14525	17180	10290	8009
60°	4908	5789	4103	3297
65°	2353	2501	1906	1548
70°	1104	1288	920	810
75°	583	729	486	486
80°	362	362	145	145
85°	0	289	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 83419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	9.2
10°-20°	593.7	23.9
20°-30°	744.9	30.0
30°-40°	568.8	22.9
40°-50°	271.1	10.9
50°-60°	64.9	2.6
60°-70°	8.1	0.3
70°-80°	1.4	0.1
80°-90°	0.1	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°	1566.4	63.1
0°-40°	2135.2	86.1
0°-60°	2471.1	99.6
0°-90°	2480.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2458	2458	2458	2458	2458	
5°	2428	2455	2416	2396	2428	229
15°	2139	2250	2085	1985	2139	602
25°	1698	1838	1606	1441	1698	768
35°	939	1120	850	722	939	587
45°	356	421	315	270	356	281
55°	66	78	47	36	66	71
65°	8	8	6	5	8	9
75°	1	2	1	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°	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5
0.5°	2459.2	2458.7	2458.5	2458.0	2463.2	2462.7	2461.7	2460.0	2457.2	2453.0	2451.1
1°	2459.0	2460.2	2461.0	2460.5	2464.4	2464.2	2462.2	2459.5	2455.0	2449.1	2446.6
1.5°	2457.5	2460.2	2461.7	2462.2	2464.9	2464.4	2461.9	2458.5	2452.8	2443.9	2440.2
2°	2455.0	2460.0	2462.2	2463.2	2464.7	2464.4	2461.4	2457.0	2448.9	2438.5	2433.5
2.5°	2452.1	2458.5	2461.7	2463.2	2463.9	2463.7	2460.5	2455.0	2444.9	2432.3	2426.9
3°	2448.1	2456.3	2460.5	2462.9	2463.2	2462.9	2459.0	2452.6	2440.2	2425.9	2419.5
3.5°	2443.7	2454.5	2459.0	2461.9	2461.7	2461.7	2457.5	2449.8	2435.3	2418.7	2411.6
4°	2438.7	2451.6	2457.0	2461.0	2460.0	2460.5	2456.0	2446.6	2429.3	2411.6	2403.2
4.5°	2433.3	2448.1	2455.3	2459.0	2458.0	2458.5	2453.8	2442.9	2423.4	2403.4	2394.5
5°	2427.9	2444.4	2453.3	2457.2	2454.8	2456.0	2451.1	2438.2	2416.3	2394.8	2384.4
5.5°	2421.4	2440.7	2450.6	2455.3	2451.8	2453.0	2447.6	2432.8	2409.1	2385.6	2373.5
6°	2414.3	2436.3	2447.9	2452.8	2447.1	2449.1	2443.2	2427.1	2400.9	2375.5	2361.9
6.5°	2406.6	2431.3	2444.4	2449.1	2442.4	2443.9	2437.7	2420.2	2392.1	2364.2	2348.1
7°	2398.7	2425.9	2440.2	2445.1	2436.8	2438.2	2431.6	2412.6	2382.2	2351.6	2333.0
7.5°	2390.3	2419.2	2435.3	2440.5	2429.8	2431.1	2423.4	2403.4	2371.6	2337.0	2316.2
8°	2380.5	2411.6	2429.1	2434.8	2422.4	2423.2	2415.0	2393.8	2360.0	2321.4	2296.7
8.5°	2370.1	2402.9	2421.4	2427.9	2414.0	2414.5	2405.1	2383.4	2346.6	2303.9	2276.2
9°	2358.5	2393.5	2413.0	2420.0	2405.9	2404.4	2394.8	2372.1	2332.5	2284.6	2252.8
9.5°	2346.4	2383.4	2403.7	2411.6	2396.3	2394.8	2383.2	2360.0	2316.7	2263.2	2228.3
10°	2333.0	2372.1	2393.3	2402.2	2386.9	2383.4	2371.1	2346.1	2300.0	2239.9	2200.9
10.5°	2318.2	2359.7	2382.2	2392.6	2376.5	2372.1	2358.0	2331.6	2281.4	2215.0	2175.0
11°	2302.7	2347.1	2369.8	2381.9	2365.6	2359.7	2343.9	2315.3	2260.4	2190.1	2148.1
11.5°	2285.6	2333.3	2357.7	2370.8	2354.5	2346.6	2328.3	2298.5	2238.7	2164.6	2121.4
12°	2267.4	2318.5	2344.2	2359.7	2341.9	2333.0	2312.5	2280.7	2216.0	2139.2	2097.5
12.5°	2247.8	2302.2	2329.6	2346.9	2328.8	2317.7	2296.0	2261.4	2193.0	2116.2	2075.2
13°	2226.6	2285.1	2314.3	2334.0	2315.5	2302.7	2278.0	2241.2	2169.6	2094.3	2054.5
13.5°	2204.6	2267.1	2298.0	2320.0	2300.9	2285.9	2259.7	2220.7	2147.1	2072.8	2035.5
14°	2183.2	2248.8	2281.4	2305.6	2285.4	2268.8	2240.9	2199.4	2124.9	2052.5	2016.5
14.5°	2161.7	2229.6	2264.4	2290.6	2267.8	2250.8	2221.7	2178.0	2104.6	2033.8	1997.7
15°	2139.4	2209.1	2246.9	2273.8	2250.1	2232.8	2202.2	2157.7	2084.9	2014.5	1979.2
15.5°	2118.7	2189.6	2228.8	2257.7	2233.0	2214.5	2182.9	2138.0	2065.9	1996.5	1961.9
16°	2098.5	2169.8	2209.1	2239.7	2215.0	2196.7	2165.4	2118.7	2046.6	1978.2	1944.1
16.5°	2080.2	2150.6	2190.8	2222.4	2198.0	2178.5	2147.8	2099.9	2028.3	1960.4	1925.8
17°	2061.2	2131.3	2173.8	2204.6	2179.7	2161.2	2130.6	2080.9	2010.0	1942.4	1906.6
17.5°	2042.6	2113.5	2156.7	2187.3	2161.4	2143.4	2112.5	2062.6	1992.0	1922.9	1886.1
18°	2024.4	2096.0	2139.7	2170.1	2143.1	2125.1	2094.5	2044.9	1974.2	1902.1	1858.9
18.5°	2006.8	2078.2	2123.4	2152.5	2123.9	2107.6	2077.0	2027.1	1955.0	1876.0	1831.8
19°	1989.6	2061.4	2107.1	2135.2	2105.6	2089.6	2059.7	2009.8	1934.5	1850.0	1804.6
19.5°	1971.5	2043.9	2089.8	2117.0	2086.8	2072.5	2042.4	1992.0	1912.8	1823.9	1777.4
20°	1952.8	2027.1	2073.0	2099.4	2069.1	2054.5	2024.9	1973.5	1890.5	1797.7	1748.3
20.5°	1932.8	2010.3	2056.5	2082.2	2050.3	2036.0	2006.6	1954.0	1865.3	1771.5	1715.0
21°	1910.8	1993.3	2039.7	2064.1	2029.6	2017.5	1988.3	1933.0	1840.2	1738.9	1678.2



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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°	1838.2	1935.5	1986.1	2008.1	1964.9	1953.5	1927.1	1862.4	1764.6	1636.7	1576.2
23°	1812.0	1914.5	1966.6	1986.6	1940.9	1931.8	1905.6	1836.2	1735.7	1605.1	1541.6
23.5°	1784.4	1892.3	1947.1	1965.4	1915.7	1906.6	1878.2	1810.0	1704.8	1574.0	1509.0
24°	1756.2	1867.8	1925.8	1942.9	1890.8	1879.9	1850.5	1783.9	1673.0	1542.1	1476.4
24.5°	1727.8	1842.1	1903.4	1917.9	1864.6	1853.0	1823.1	1759.2	1640.4	1511.7	1443.6
25°	1697.7	1815.0	1879.4	1893.5	1838.4	1826.3	1795.7	1728.8	1605.6	1480.1	1409.8
25.5°	1665.8	1786.6	1852.5	1866.3	1812.0	1799.4	1768.1	1697.7	1569.8	1446.5	1374.9
26°	1632.2	1756.7	1824.8	1838.7	1785.8	1772.7	1731.8	1664.8	1533.2	1412.0	1339.4
26.5°	1597.2	1725.1	1793.0	1810.8	1759.4	1741.1	1694.5	1629.5	1497.2	1375.7	1303.3
27°	1561.6	1692.5	1759.9	1782.4	1730.0	1708.5	1654.5	1591.7	1461.9	1337.2	1265.8
27.5°	1525.3	1657.9	1723.1	1754.0	1698.9	1675.2	1615.7	1554.5	1424.6	1298.9	1229.2
28°	1487.5	1621.6	1683.6	1721.9	1666.6	1640.6	1577.2	1514.9	1388.5	1260.4	1192.7
28.5°	1449.8	1582.4	1644.3	1689.8	1631.3	1604.3	1540.1	1473.5	1351.7	1222.3	1157.1
29°	1410.7	1541.9	1603.6	1656.4	1598.2	1565.6	1503.8	1432.7	1314.9	1184.1	1120.6
29.5°	1373.7	1500.6	1564.1	1621.6	1561.1	1527.5	1467.8	1393.2	1276.7	1147.8	1085.0
30°	1334.9	1459.6	1525.8	1584.6	1525.6	1487.3	1431.5	1352.2	1237.4	1112.2	1050.5
30.5°	1295.2	1418.6	1489.3	1546.1	1488.5	1446.5	1395.2	1312.5	1198.6	1076.1	1015.6
31°	1255.9	1379.1	1453.5	1507.5	1452.5	1408.0	1358.1	1272.0	1159.4	1041.1	979.8
31.5°	1215.9	1339.4	1417.4	1465.8	1413.0	1368.8	1319.4	1232.9	1119.4	1005.0	944.0
32°	1175.9	1300.6	1380.9	1426.3	1374.4	1331.5	1280.4	1193.4	1078.6	968.0	908.0
32.5°	1136.1	1261.3	1343.1	1385.6	1332.2	1293.0	1240.6	1154.4	1037.6	930.7	872.4
33°	1096.1	1222.6	1305.1	1345.8	1290.7	1254.4	1200.1	1115.9	998.9	893.4	836.9
33.5°	1057.4	1183.1	1264.3	1306.5	1247.5	1216.6	1160.1	1077.6	959.3	855.9	801.1
34°	1016.9	1143.3	1224.3	1267.5	1205.5	1178.1	1120.8	1039.3	921.6	817.8	766.7
34.5°	977.9	1103.1	1183.8	1228.3	1162.8	1138.6	1082.1	1001.6	885.0	782.3	733.1
35°	938.8	1063.8	1142.8	1189.2	1120.1	1098.9	1044.5	965.5	849.9	746.7	700.8
35.5°	900.3	1025.0	1103.6	1150.0	1078.6	1058.9	1007.7	929.5	813.9	712.9	668.0
36°	865.3	987.2	1066.0	1110.5	1037.6	1019.6	970.9	893.7	779.8	679.1	635.9
36.5°	829.9	950.7	1029.2	1069.7	995.1	980.1	933.4	859.1	745.7	647.2	605.0
37°	794.6	914.4	991.4	1031.9	954.9	940.6	896.4	824.5	713.1	616.6	573.9
37.5°	759.6	874.6	955.1	991.4	915.4	902.5	857.9	791.2	680.8	586.5	545.0
38°	724.3	842.0	918.1	952.7	878.1	865.5	820.6	756.6	650.9	557.1	516.1
38.5°	690.9	809.2	879.6	912.4	838.1	828.0	784.3	722.8	619.3	528.2	488.9
39°	659.6	776.6	843.3	876.4	802.3	791.2	748.7	689.4	590.7	501.0	463.7
39.5°	629.2	744.0	807.0	838.8	766.5	753.6	714.1	657.6	562.5	475.3	441.0
40°	599.8	710.4	770.4	801.6	730.4	716.9	679.8	625.0	535.8	451.4	419.0
40.5°	570.2	678.1	734.1	764.3	694.4	681.0	647.5	593.6	508.7	428.7	398.1
41°	542.3	644.7	698.8	727.0	661.0	646.2	616.6	564.0	483.5	407.9	379.3
41.5°	515.6	613.4	666.2	691.9	627.0	611.4	585.7	535.8	459.5	387.7	362.3
42°	489.7	581.8	633.9	657.3	595.9	577.6	554.6	507.7	436.6	369.9	345.0
42.5°	465.0	551.9	602.3	623.8	564.0	545.7	524.7	481.5	413.9	351.6	328.4
43°	441.8	523.5	571.9	590.2	533.6	514.9	495.4	455.8	392.4	334.6	312.6
43.5°	418.3	495.8	541.3	558.1	504.0	486.0	466.7	431.4	372.1	318.1	296.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	355.6	419.0	453.4	468.7	421.3	406.0	387.4	363.7	315.3	271.6	253.1
45.5°	336.3	395.6	426.0	442.0	396.1	382.3	364.7	343.0	298.1	257.1	239.3
46°	317.3	372.9	399.8	415.8	371.1	359.8	342.7	323.5	281.3	242.7	226.9
46.5°	299.5	352.4	377.1	391.9	348.4	338.3	322.5	304.7	265.2	229.2	214.6
47°	282.5	332.1	355.1	368.4	326.2	317.6	303.2	286.4	249.2	216.3	202.0
47.5°	266.2	312.9	333.9	346.4	306.2	298.3	285.5	269.2	234.8	203.7	189.6
48°	250.4	294.3	314.1	325.7	286.9	280.0	268.2	252.9	221.3	190.9	177.3
48.5°	234.8	276.8	295.8	305.5	268.4	262.5	251.9	237.3	207.9	178.3	163.5
49°	220.5	259.8	278.0	287.4	251.6	245.9	236.3	223.5	194.3	163.7	148.2
49.5°	207.9	243.7	261.3	268.9	235.3	232.1	222.7	209.6	180.8	147.9	132.6
50°	194.6	228.7	245.0	252.6	221.7	218.3	209.2	196.1	166.9	132.4	117.0
50.5°	182.0	214.6	229.6	235.6	208.2	204.2	195.3	182.2	150.6	116.8	103.2
51°	168.7	200.8	215.3	221.0	194.3	190.4	181.7	168.4	134.3	102.2	89.9
51.5°	153.8	187.7	201.7	206.9	180.8	176.6	167.9	152.6	118.5	89.1	78.0
52°	138.0	174.1	187.9	193.3	166.9	162.5	151.9	136.3	103.7	78.0	68.4
52.5°	122.7	159.3	174.1	180.5	151.9	146.9	135.3	120.0	90.4	68.2	60.0
53°	107.4	143.0	159.0	166.2	135.6	130.4	119.0	104.9	78.8	60.0	52.8
53.5°	93.6	126.9	142.5	151.1	120.0	114.3	104.2	91.1	68.9	52.8	46.7
54°	84.5	111.1	125.4	134.3	104.5	99.8	90.1	79.5	60.5	46.9	41.5
54.5°	75.3	97.0	109.6	118.5	90.4	86.4	78.0	69.4	53.3	41.5	37.0
55°	66.2	84.0	95.6	102.5	78.3	74.8	67.9	60.7	46.9	37.0	33.1
55.5°	57.0	75.6	83.7	89.4	67.7	64.9	59.5	53.1	41.7	33.1	29.6
56°	48.2	66.9	74.8	80.5	58.8	56.3	52.1	46.9	37.0	29.6	26.7
56.5°	42.5	58.3	66.2	71.6	51.4	49.6	45.9	41.5	33.1	26.7	24.0
57°	37.5	49.9	57.5	62.7	45.2	43.7	40.5	36.8	29.6	24.2	22.0
57.5°	33.6	44.2	48.9	54.1	39.8	38.5	36.1	32.8	26.7	22.2	20.2
58°	29.9	39.3	43.2	45.2	35.3	34.3	32.1	29.4	24.0	20.2	18.3
58.5°	26.9	34.8	38.3	39.8	31.4	30.6	28.6	26.2	22.0	18.3	16.5
59°	24.2	31.1	34.1	35.3	27.9	27.2	25.7	23.7	20.2	16.5	14.6
59.5°	21.7	27.9	30.4	31.4	24.9	24.4	23.7	21.7	18.3	14.6	13.3
60°	19.5	24.9	27.2	27.9	23.0	22.5	21.7	20.0	16.3	13.3	12.1
60.5°	17.8	22.5	24.4	24.9	21.0	20.5	19.8	18.0	14.6	12.1	10.9
61°	16.1	20.2	22.0	22.5	19.0	18.5	17.8	16.1	13.1	10.9	10.1
61.5°	14.6	18.3	19.8	20.2	17.0	16.5	15.8	14.3	11.9	10.1	9.1
62°	13.1	16.5	17.8	18.3	14.8	14.6	13.8	12.8	10.9	9.1	8.4
62.5°	12.1	15.1	16.3	16.5	13.6	13.3	12.6	11.9	9.9	8.4	7.7
63°	10.9	13.6	14.8	15.1	12.3	12.1	11.4	10.6	9.1	7.7	6.9
63.5°	9.9	12.3	13.3	13.6	11.1	10.9	10.4	9.6	8.1	6.9	6.4
64°	9.1	11.4	12.1	12.3	10.1	9.9	9.4	8.9	7.7	6.4	5.9
64.5°	8.4	10.4	11.1	11.1	9.1	9.1	8.6	8.1	6.9	5.9	5.4
65°	7.9	9.4	10.1	10.1	8.4	8.4	7.9	7.4	6.4	5.4	4.9
65.5°	7.2	8.6	9.1	9.4	7.7	7.7	7.2	6.7	5.9	4.9	4.4
66°	6.4	7.9	8.4	8.6	7.2	6.9	6.7	6.2	5.2	4.4	4.2



TEST NUMBER: P775956

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	4.9	5.9	6.4	6.4	5.4	5.4	4.9	4.7	4.0	3.5	3.2
68°	4.4	5.4	5.9	5.9	4.9	4.9	4.7	4.4	3.7	3.2	3.0
68.5°	4.0	4.9	5.4	5.4	4.4	4.4	4.2	4.0	3.5	3.0	2.7
69°	3.7	4.7	4.9	4.9	4.2	4.2	4.0	3.7	3.2	2.7	2.5
69.5°	3.5	4.2	4.4	4.7	4.0	3.7	3.5	3.5	2.7	2.5	2.2
70°	3.0	4.0	4.2	4.2	3.5	3.5	3.2	3.0	2.5	2.2	2.0
70.5°	2.7	3.5	3.7	4.0	3.2	3.2	3.0	2.7	2.5	2.0	2.0
71°	2.5	3.2	3.5	3.5	3.0	3.0	2.7	2.5	2.2	2.0	1.7
71.5°	2.2	3.0	3.2	3.2	2.7	2.7	2.5	2.5	2.0	1.7	1.7
72°	2.2	2.7	3.0	3.0	2.5	2.5	2.2	2.2	1.7	1.5	1.5
72.5°	2.0	2.5	2.7	2.7	2.2	2.2	2.2	2.0	1.7	1.5	1.2
73°	1.7	2.2	2.5	2.5	2.2	2.0	2.0	1.7	1.5	1.2	1.2
73.5°	1.7	2.0	2.2	2.2	2.0	2.0	1.7	1.7	1.2	1.2	1.2
74°	1.5	2.0	2.0	2.2	1.7	1.7	1.7	1.5	1.2	1.0	1.0
74.5°	1.2	1.7	2.0	2.0	1.7	1.5	1.5	1.5	1.2	1.0	1.0
75°	1.2	1.5	1.7	1.7	1.5	1.5	1.5	1.2	1.0	0.7	0.7
75.5°	1.0	1.5	1.5	1.7	1.5	1.2	1.2	1.2	1.0	0.7	0.7
76°	1.0	1.2	1.5	1.5	1.2	1.2	1.2	1.0	0.7	0.7	0.7
76.5°	1.0	1.2	1.2	1.5	1.2	1.2	1.0	1.0	0.7	0.5	0.5
77°	0.7	1.0	1.2	1.2	1.0	1.0	1.0	0.7	0.7	0.5	0.5
77.5°	0.7	1.0	1.0	1.2	1.0	1.0	0.7	0.7	0.5	0.5	0.5
78°	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.5	0.5	0.5
78.5°	0.5	0.7	1.0	1.0	0.7	0.7	0.7	0.5	0.5	0.5	0.5
79°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.2	0.2
79.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.2	0.2
80°	0.5	0.5	0.7	0.7	0.5	0.5	0.5	0.5	0.2	0.2	0.2
80.5°	0.2	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.2	0.2	0.2
81°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
81.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.0	0.2
82.5°	0.2	0.2	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.0	0.0
83°	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0
83.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
84°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
84.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775956
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-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: P775956

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5
0.5°	2449.6	2458.2	2458.5	2458.2	2458.0	2459.2
1°	2443.9	2454.5	2455.0	2455.3	2455.5	2459.0
1.5°	2437.5	2449.8	2450.1	2451.1	2452.6	2457.5
2°	2430.6	2443.9	2444.9	2445.9	2448.1	2455.0
2.5°	2422.9	2437.5	2438.2	2440.0	2442.7	2452.1
3°	2414.5	2430.1	2431.3	2433.3	2437.0	2448.1
3.5°	2406.1	2422.4	2423.7	2426.1	2430.8	2443.7
4°	2396.7	2414.0	2415.3	2418.5	2423.9	2438.7
4.5°	2387.4	2405.1	2406.1	2410.1	2416.5	2433.3
5°	2376.0	2395.5	2397.2	2401.4	2409.1	2427.9
5.5°	2363.9	2385.1	2387.1	2392.3	2400.9	2421.4
6°	2350.8	2374.0	2376.5	2382.4	2392.1	2414.3
6.5°	2334.5	2361.4	2363.9	2371.6	2382.4	2406.6
7°	2318.0	2347.1	2350.8	2360.0	2372.3	2398.7
7.5°	2297.5	2331.8	2335.8	2347.4	2361.7	2390.3
8°	2277.2	2313.3	2319.7	2333.0	2349.3	2380.5
8.5°	2253.0	2293.5	2301.2	2317.0	2335.8	2370.1
9°	2228.1	2271.6	2280.7	2299.5	2321.4	2358.5
9.5°	2200.7	2247.6	2257.7	2279.9	2305.6	2346.4
10°	2173.3	2221.7	2233.5	2258.2	2288.3	2333.0
10.5°	2145.9	2194.0	2207.6	2234.8	2268.3	2318.2
11°	2119.2	2166.1	2180.9	2210.1	2247.4	2302.7
11.5°	2092.5	2138.0	2152.3	2183.9	2225.1	2285.6
12°	2071.3	2111.3	2126.4	2157.5	2200.9	2267.4
12.5°	2050.3	2086.6	2100.2	2131.0	2175.7	2247.8
13°	2030.5	2063.6	2077.7	2107.6	2151.8	2226.6
13.5°	2011.8	2042.4	2056.7	2084.4	2128.3	2204.6
14°	1992.5	2022.4	2036.7	2063.9	2105.6	2183.2
14.5°	1976.2	2004.1	2018.4	2044.6	2084.4	2161.7
15°	1957.7	1985.1	1999.9	2025.4	2064.1	2139.4
15.5°	1941.4	1967.6	1982.1	2006.6	2044.9	2118.7
16°	1924.9	1951.0	1964.1	1988.1	2025.4	2098.5
16.5°	1906.1	1934.0	1947.3	1970.5	2006.3	2080.2
17°	1886.1	1917.9	1930.0	1952.5	1989.3	2061.2
17.5°	1859.9	1899.9	1912.8	1934.7	1971.0	2042.6
18°	1834.0	1878.9	1892.5	1917.0	1953.3	2024.4
18.5°	1808.1	1855.5	1870.5	1896.5	1934.5	2006.8
19°	1782.1	1830.0	1847.6	1875.2	1915.0	1989.6
19.5°	1756.0	1802.1	1821.6	1850.3	1893.5	1971.5
20°	1724.3	1772.5	1793.5	1824.4	1870.8	1952.8
20.5°	1690.3	1741.9	1764.6	1796.0	1845.8	1932.8
21°	1656.7	1711.5	1733.0	1765.1	1818.9	1910.8



TEST NUMBER: P775956

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1553.2	1619.6	1632.2	1663.1	1727.3	1838.2
23°	1516.9	1587.0	1596.4	1627.8	1695.0	1812.0
23.5°	1483.3	1553.2	1560.9	1594.0	1661.4	1784.4
24°	1445.3	1516.7	1526.1	1559.6	1628.5	1756.2
24.5°	1410.7	1480.6	1489.3	1525.1	1594.7	1727.8
25°	1374.2	1440.9	1453.7	1492.0	1562.9	1697.7
25.5°	1338.4	1403.6	1418.1	1457.4	1530.0	1665.8
26°	1302.1	1365.8	1381.6	1423.3	1497.7	1632.2
26.5°	1266.8	1328.0	1346.5	1387.5	1464.3	1597.2
27°	1230.0	1288.0	1309.0	1351.5	1429.3	1561.6
27.5°	1194.4	1249.7	1272.2	1314.9	1393.9	1525.3
28°	1157.6	1211.0	1235.2	1275.2	1357.4	1487.5
28.5°	1121.1	1171.7	1198.9	1239.6	1319.9	1449.8
29°	1082.6	1133.9	1161.3	1201.8	1282.1	1410.7
29.5°	1044.3	1095.9	1125.0	1165.3	1242.1	1373.7
30°	1007.7	1059.4	1088.2	1129.7	1204.1	1334.9
30.5°	969.7	1023.3	1050.2	1093.2	1164.5	1295.2
31°	934.4	988.5	1012.9	1057.4	1125.5	1255.9
31.5°	899.1	953.7	975.4	1021.6	1086.8	1215.9
32°	865.0	919.8	939.3	985.8	1049.5	1175.9
32.5°	831.9	884.5	903.5	950.0	1012.7	1136.1
33°	798.1	851.9	870.2	913.2	975.4	1096.1
33.5°	766.2	819.3	836.6	873.9	938.4	1057.4
34°	733.6	786.7	803.0	840.1	901.3	1016.9
34.5°	702.8	754.1	769.4	806.2	864.8	977.9
35°	672.4	722.5	736.1	772.4	828.2	938.8
35.5°	642.3	693.4	704.3	738.6	791.7	900.3
36°	613.4	664.3	673.6	705.2	755.1	865.3
36.5°	586.0	637.3	643.3	672.4	718.8	829.9
37°	559.1	608.9	614.4	639.6	684.3	794.6
37.5°	533.6	582.0	585.7	607.2	651.4	759.6
38°	508.4	555.6	558.6	575.9	619.3	724.3
38.5°	484.0	529.9	532.1	545.2	589.7	690.9
39°	461.3	506.5	506.5	515.1	560.8	659.6
39.5°	437.8	481.8	482.5	487.4	532.4	629.2
40°	416.6	459.5	458.3	460.8	504.7	599.8
40.5°	395.3	436.8	435.6	436.6	478.1	570.2
41°	375.3	415.8	413.4	413.6	453.4	542.3
41.5°	356.8	394.6	392.1	393.1	429.7	515.6
42°	338.5	375.1	372.4	373.6	407.9	489.7
42.5°	321.5	355.8	353.4	355.6	386.5	465.0
43°	304.0	337.3	335.1	338.3	366.7	441.8
43.5°	288.2	319.5	317.8	322.2	347.9	418.3

TEST NUMBER: P775956

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	243.0	269.9	269.7	276.1	297.6	355.6
45.5°	229.6	254.3	254.6	262.0	282.0	336.3
46°	217.3	239.5	240.3	247.7	266.9	317.3
46.5°	205.0	225.7	226.7	234.1	252.4	299.5
47°	192.6	212.9	214.1	221.3	238.3	282.5
47.5°	180.0	200.8	201.7	208.9	224.5	266.2
48°	168.2	188.4	189.9	197.1	211.6	250.4
48.5°	153.6	176.8	178.5	185.4	199.5	234.8
49°	138.3	164.0	166.2	173.8	187.4	220.5
49.5°	122.7	150.1	152.9	161.5	175.3	207.9
50°	107.9	135.1	138.3	147.7	162.7	194.6
50.5°	94.3	119.5	123.5	132.9	148.2	182.0
51°	81.5	104.5	108.4	118.3	133.1	168.7
51.5°	71.1	91.1	94.6	103.7	118.3	153.8
52°	62.0	82.0	85.4	90.4	103.5	138.0
52.5°	54.6	73.1	76.1	81.5	90.1	122.7
53°	47.9	64.4	66.7	72.6	81.5	107.4
53.5°	42.5	55.6	57.5	64.0	72.6	93.6
54°	37.8	46.7	48.2	55.1	63.7	84.5
54.5°	33.8	41.0	42.5	46.2	54.8	75.3
55°	30.1	36.5	37.8	41.0	46.2	66.2
55.5°	27.2	32.6	33.6	36.3	40.7	57.0
56°	24.4	29.1	30.1	32.3	36.3	48.2
56.5°	22.5	26.2	26.9	28.9	32.3	42.5
57°	20.5	23.7	24.2	25.9	28.9	37.5
57.5°	18.5	21.2	21.7	23.2	25.9	33.6
58°	16.5	19.3	19.8	21.0	23.2	29.9
58.5°	14.8	17.3	17.8	19.0	21.0	26.9
59°	13.3	15.8	16.1	17.3	19.0	24.2
59.5°	12.1	14.3	14.6	15.6	17.0	21.7
60°	11.1	13.1	13.3	14.1	15.6	19.5
60.5°	10.1	11.9	12.1	12.8	14.1	17.8
61°	9.1	10.6	10.9	11.6	12.8	16.1
61.5°	8.4	9.9	10.1	10.6	11.6	14.6
62°	7.7	9.1	9.4	9.6	10.6	13.1
62.5°	6.9	8.4	8.6	8.9	9.6	12.1
63°	6.4	7.7	7.9	8.1	8.9	10.9
63.5°	5.9	6.9	7.2	7.4	8.1	9.9
64°	5.4	6.2	6.4	6.7	7.4	9.1
64.5°	4.9	5.7	5.9	6.2	6.7	8.4
65°	4.4	5.2	5.4	5.7	6.2	7.9
65.5°	4.2	4.9	4.9	5.2	5.7	7.2
66°	3.7	4.4	4.4	4.7	5.2	6.4



TEST NUMBER: P775956

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	3.0	3.5	3.5	3.7	4.0	4.9
68°	2.7	3.2	3.2	3.5	3.7	4.4
68.5°	2.5	3.0	3.0	3.2	3.5	4.0
69°	2.2	2.7	2.7	2.7	3.0	3.7
69.5°	2.0	2.5	2.5	2.7	2.7	3.5
70°	2.0	2.2	2.2	2.5	2.5	3.0
70.5°	1.7	2.0	2.0	2.2	2.2	2.7
71°	1.7	2.0	2.0	2.0	2.2	2.5
71.5°	1.5	1.7	1.7	1.7	2.0	2.2
72°	1.2	1.5	1.5	1.7	1.7	2.2
72.5°	1.2	1.5	1.5	1.5	1.7	2.0
73°	1.2	1.2	1.2	1.5	1.5	1.7
73.5°	1.0	1.2	1.2	1.2	1.2	1.7
74°	1.0	1.0	1.0	1.2	1.2	1.5
74.5°	0.7	1.0	1.0	1.0	1.0	1.2
75°	0.7	1.0	1.0	1.0	1.0	1.2
75.5°	0.7	0.7	0.7	1.0	1.0	1.0
76°	0.7	0.7	0.7	0.7	0.7	1.0
76.5°	0.5	0.7	0.7	0.7	0.7	1.0
77°	0.5	0.5	0.7	0.7	0.7	0.7
77.5°	0.5	0.5	0.5	0.5	0.5	0.7
78°	0.5	0.5	0.5	0.5	0.5	0.7
78.5°	0.5	0.5	0.5	0.5	0.5	0.5
79°	0.2	0.5	0.5	0.5	0.5	0.5
79.5°	0.2	0.2	0.2	0.2	0.2	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.5
80.5°	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.2	0.2	0.2	0.2	0.2
83°	0.0	0.2	0.2	0.2	0.0	0.2
83.5°	0.0	0.0	0.0	0.0	0.0	0.2
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775956

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-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





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

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21.5°	1887.6	1975.0	2022.6	2046.1	2009.3	1996.7	1968.8	1910.5	1815.0	1704.6	1643.4
22°	1863.6	1955.7	2004.4	2027.6	1987.1	1976.2	1948.6	1888.6	1789.8	1669.8	1609.8



44°	396.3	468.7	510.7	527.5	476.1	458.1	438.6	407.4	352.6	302.5	282.0
44.5°	375.6	443.2	481.8	497.6	448.4	431.1	412.6	385.5	333.6	286.7	267.4



66.5°	5.7	7.2	7.9	7.9	6.4	6.4	5.9	5.7	4.9	4.2	3.7
67°	5.2	6.4	7.2	7.2	5.9	5.7	5.4	5.2	4.4	3.7	3.5



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°	1622.6	1681.1	1700.4	1731.8	1790.0	1887.6
22°	1589.0	1650.3	1666.6	1696.9	1759.2	1863.6



44°	272.9	302.2	301.0	306.0	330.2	396.3
44.5°	257.8	285.7	285.0	291.1	313.9	375.6



66.5°	3.5	4.0	4.2	4.4	4.7	5.7
67°	3.2	3.7	3.7	4.0	4.4	5.2

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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)