

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: P775957

Luminaire Tested: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775957
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: HCDJBS1525CSD-HCD42TRH-2500lm-3500K
Description: 4 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2518.6 lumens
Efficiency: N/A
Efficacy: 100.7 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

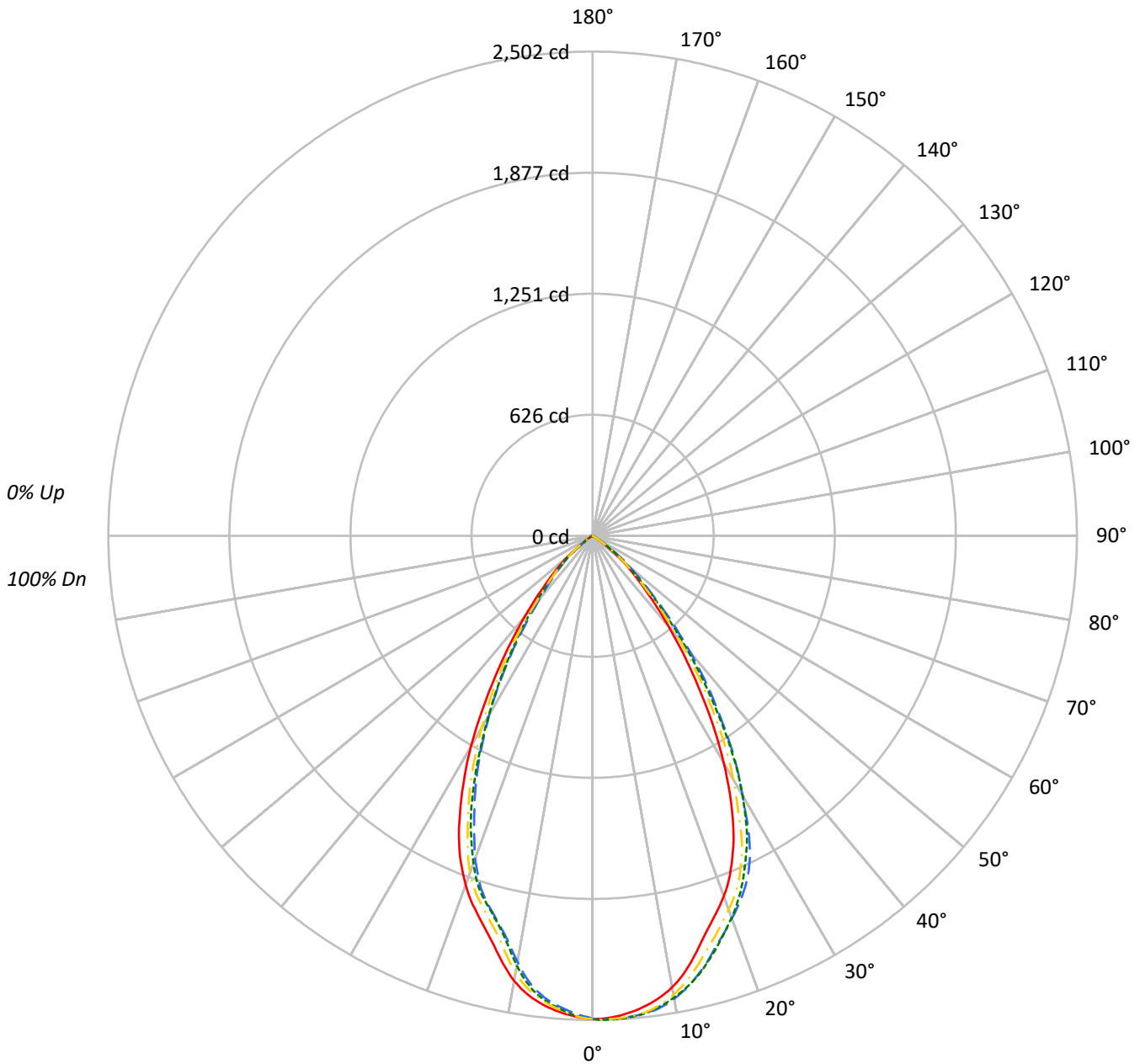
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	314121	314121	314121	314121
5°	311392	314841	309901	307236
10°	302686	309676	298393	288233
15°	283001	297633	275783	262585
20°	265509	281326	257059	241001
25°	239339	259182	226342	203124
30°	196951	225070	182564	156290
35°	146444	174713	132571	112691
40°	100033	121834	89371	76655
45°	64250	76121	56971	48766
50°	38688	44072	33186	26842
55°	14745	17443	10444	8140
60°	4984	5865	4153	3348
65°	2382	2531	1936	1578
70°	1104	1288	920	846
75°	632	729	486	486
80°	362	362	217	217
85°	0	433	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 84682 cd/sqm



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	9.2
10°-20°	602.8	23.9
20°-30°	756.2	30.0
30°-40°	577.5	22.9
40°-50°	275.2	10.9
50°-60°	65.9	2.6
60°-70°	8.2	0.3
70°-80°	1.5	0.1
80°-90°	0.2	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°	1590.2	63.1
0°-40°	2167.7	86.1
0°-60°	2508.8	99.6
0°-90°	2518.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2496	2496	2496	2496	2496	
5°	2465	2492	2453	2432	2465	232
15°	2172	2284	2117	2015	2172	611
25°	1724	1866	1630	1463	1724	779
35°	953	1137	863	734	953	596
45°	361	428	320	274	361	286
55°	67	80	48	37	67	72
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



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2496.0	2496.0	2496.0	2496.0	2496.0	2496.0	2496.0	2496.0	2496.0	2496.0	2496.0
0.5°	2496.7	2496.2	2496.0	2495.5	2500.7	2500.2	2499.2	2497.5	2494.7	2490.4	2488.4
1°	2496.5	2497.7	2498.5	2498.0	2502.0	2501.7	2499.7	2497.0	2492.4	2486.4	2483.9
1.5°	2495.0	2497.7	2499.2	2499.7	2502.5	2502.0	2499.5	2496.0	2490.2	2481.2	2477.4
2°	2492.4	2497.5	2499.7	2500.7	2502.2	2502.0	2499.0	2494.5	2486.2	2475.7	2470.6
2.5°	2489.4	2496.0	2499.2	2500.7	2501.5	2501.2	2498.0	2492.4	2482.2	2469.4	2463.9
3°	2485.4	2493.7	2498.0	2500.5	2500.7	2500.5	2496.5	2489.9	2477.4	2462.9	2456.3
3.5°	2480.9	2491.9	2496.5	2499.5	2499.2	2499.2	2495.0	2487.2	2472.4	2455.6	2448.3
4°	2475.9	2488.9	2494.5	2498.5	2497.5	2498.0	2493.5	2483.9	2466.4	2448.3	2439.8
4.5°	2470.4	2485.4	2492.7	2496.5	2495.5	2496.0	2491.2	2480.2	2460.4	2440.1	2431.0
5°	2464.9	2481.7	2490.7	2494.7	2492.2	2493.5	2488.4	2475.4	2453.1	2431.3	2420.7
5.5°	2458.4	2477.9	2487.9	2492.7	2489.2	2490.4	2484.9	2469.9	2445.8	2422.0	2409.7
6°	2451.1	2473.4	2485.2	2490.2	2484.4	2486.4	2480.4	2464.1	2437.5	2411.7	2397.9
6.5°	2443.3	2468.4	2481.7	2486.4	2479.7	2481.2	2474.9	2457.1	2428.5	2400.2	2383.9
7°	2435.3	2462.9	2477.4	2482.4	2473.9	2475.4	2468.6	2449.3	2418.5	2387.4	2368.6
7.5°	2426.8	2456.1	2472.4	2477.7	2466.9	2468.1	2460.4	2440.1	2407.7	2372.6	2351.6
8°	2416.7	2448.3	2466.1	2471.9	2459.4	2460.1	2451.8	2430.3	2395.9	2356.8	2331.8
8.5°	2406.2	2439.6	2458.4	2464.9	2450.8	2451.3	2441.8	2419.7	2382.4	2339.0	2310.9
9°	2394.4	2430.0	2449.8	2456.9	2442.6	2441.1	2431.3	2408.2	2368.1	2319.5	2287.1
9.5°	2382.1	2419.7	2440.3	2448.3	2432.8	2431.3	2419.5	2395.9	2352.1	2297.7	2262.3
10°	2368.6	2408.2	2429.8	2438.8	2423.3	2419.7	2407.2	2381.9	2335.0	2274.1	2234.5
10.5°	2353.6	2395.7	2418.5	2429.0	2412.7	2408.2	2393.9	2367.1	2316.2	2248.8	2208.2
11°	2337.8	2382.9	2406.0	2418.2	2401.7	2395.7	2379.6	2350.6	2294.9	2223.4	2180.8
11.5°	2320.5	2368.9	2393.7	2407.0	2390.4	2382.4	2363.8	2333.5	2272.8	2197.6	2153.8
12°	2301.9	2353.8	2379.9	2395.7	2377.6	2368.6	2347.8	2315.5	2249.8	2171.8	2129.4
12.5°	2282.1	2337.3	2365.1	2382.6	2364.3	2353.1	2331.0	2295.9	2226.5	2148.5	2106.9
13°	2260.6	2320.0	2349.6	2369.6	2350.8	2337.8	2312.7	2275.3	2202.6	2126.2	2085.8
13.5°	2238.2	2301.7	2333.0	2355.3	2336.0	2320.7	2294.1	2254.5	2179.8	2104.4	2066.5
14°	2216.4	2283.1	2316.2	2340.8	2320.2	2303.4	2275.1	2233.0	2157.3	2083.8	2047.2
14.5°	2194.6	2263.6	2298.9	2325.5	2302.4	2285.1	2255.5	2211.2	2136.7	2064.8	2028.2
15°	2172.1	2242.8	2281.1	2308.4	2284.4	2266.8	2235.7	2190.6	2116.7	2045.2	2009.4
15.5°	2151.0	2222.9	2262.8	2292.1	2267.1	2248.3	2216.2	2170.6	2097.3	2026.9	1991.8
16°	2130.4	2202.9	2242.8	2273.8	2248.8	2230.2	2198.4	2151.0	2077.8	2008.3	1973.8
16.5°	2111.9	2183.3	2224.2	2256.3	2231.5	2211.7	2180.6	2131.9	2059.2	1990.3	1955.2
17°	2092.6	2163.8	2206.9	2238.2	2212.9	2194.1	2163.0	2112.6	2040.7	1972.0	1935.6
17.5°	2073.8	2145.7	2189.6	2220.7	2194.4	2176.1	2144.7	2094.1	2022.4	1952.2	1914.8
18°	2055.2	2127.9	2172.3	2203.1	2175.8	2157.5	2126.4	2076.0	2004.3	1931.1	1887.3
18.5°	2037.4	2109.9	2155.8	2185.3	2156.3	2139.7	2108.6	2058.0	1984.8	1904.6	1859.7
19°	2019.9	2092.8	2139.2	2167.8	2137.7	2121.4	2091.1	2040.4	1964.0	1878.2	1832.1
19.5°	2001.6	2075.0	2121.7	2149.2	2118.7	2104.1	2073.5	2022.4	1941.9	1851.7	1804.5
20°	1982.5	2058.0	2104.6	2131.4	2100.6	2085.8	2055.7	2003.6	1919.4	1825.1	1774.9
20.5°	1962.2	2040.9	2087.8	2113.9	2081.6	2067.0	2037.2	1983.8	1893.8	1798.5	1741.1
21°	1939.9	2023.6	2070.8	2095.6	2060.5	2048.2	2018.6	1962.5	1868.2	1765.4	1703.8



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1866.2	1965.0	2016.4	2038.7	1994.8	1983.3	1956.5	1890.8	1791.5	1661.6	1600.2
23°	1839.6	1943.7	1996.6	2016.9	1970.5	1961.2	1934.6	1864.2	1762.2	1629.5	1565.1
23.5°	1811.6	1921.1	1976.8	1995.3	1944.9	1935.6	1906.8	1837.6	1730.8	1598.0	1532.0
24°	1783.0	1896.3	1955.2	1972.5	1919.6	1908.6	1878.7	1811.0	1698.5	1565.6	1498.9
24.5°	1754.1	1870.2	1932.4	1947.2	1893.0	1881.2	1850.9	1786.0	1665.4	1534.8	1465.6
25°	1723.6	1842.6	1908.1	1922.4	1866.5	1854.2	1823.1	1755.1	1630.0	1502.7	1431.2
25.5°	1691.2	1813.8	1880.7	1894.8	1839.6	1826.8	1795.0	1723.6	1593.7	1468.6	1395.9
26°	1657.1	1783.5	1852.7	1866.7	1813.1	1799.8	1758.2	1690.2	1556.6	1433.5	1359.8
26.5°	1621.5	1751.4	1820.3	1838.4	1786.2	1767.7	1720.3	1654.4	1520.0	1396.6	1323.2
27°	1585.4	1718.3	1786.7	1809.5	1756.4	1734.6	1679.7	1616.0	1484.1	1357.5	1285.1
27.5°	1548.6	1683.2	1749.4	1780.7	1724.8	1700.7	1640.3	1578.2	1446.3	1318.7	1248.0
28°	1510.2	1646.3	1709.3	1748.1	1692.0	1665.6	1601.2	1538.0	1409.7	1279.6	1210.9
28.5°	1471.9	1606.5	1669.4	1715.5	1656.1	1628.8	1563.6	1495.9	1372.3	1241.0	1174.8
29°	1432.2	1565.4	1628.0	1681.7	1622.5	1589.4	1526.8	1454.6	1335.0	1202.1	1137.7
29.5°	1394.6	1523.5	1587.9	1646.3	1584.9	1550.8	1490.2	1414.4	1296.1	1165.2	1101.6
30°	1355.3	1481.9	1549.1	1608.7	1548.8	1510.0	1453.3	1372.8	1256.3	1129.1	1066.5
30.5°	1314.9	1440.3	1512.0	1569.6	1511.2	1468.6	1416.4	1332.5	1216.9	1092.5	1031.1
31°	1275.1	1400.2	1475.6	1530.5	1474.6	1429.5	1378.8	1291.4	1177.0	1056.9	994.8
31.5°	1234.4	1359.8	1439.0	1488.1	1434.5	1389.6	1339.5	1251.7	1136.4	1020.3	958.4
32°	1193.8	1320.4	1401.9	1448.0	1395.4	1351.8	1299.9	1211.6	1095.1	982.7	921.8
32.5°	1153.5	1280.6	1363.6	1406.7	1352.5	1312.7	1259.5	1172.0	1053.4	944.9	885.7
33°	1112.9	1241.2	1324.9	1366.3	1310.4	1273.6	1218.4	1132.9	1014.1	907.0	849.6
33.5°	1073.5	1201.1	1283.6	1326.4	1266.5	1235.2	1177.8	1094.1	974.0	868.9	813.3
34°	1032.4	1160.7	1243.0	1286.8	1223.9	1196.1	1137.9	1055.2	935.6	830.3	778.4
34.5°	992.8	1119.9	1201.9	1247.0	1180.5	1156.0	1098.6	1016.8	898.5	794.2	744.3
35°	953.2	1080.0	1160.2	1207.4	1137.2	1115.6	1060.5	980.2	862.9	758.1	711.5
35.5°	914.0	1040.7	1120.4	1167.5	1095.1	1075.0	1023.1	943.6	826.3	723.8	678.1
36°	878.4	1002.3	1082.3	1127.4	1053.4	1035.1	985.7	907.3	791.7	689.4	645.5
36.5°	842.6	965.2	1044.9	1086.0	1010.3	995.0	947.6	872.2	757.1	657.1	614.2
37°	806.7	928.3	1006.6	1047.7	969.5	954.9	910.0	837.1	724.0	626.0	582.6
37.5°	771.2	888.0	969.7	1006.6	929.3	916.3	870.9	803.2	691.2	595.4	553.3
38°	735.3	854.9	932.1	967.2	891.5	878.7	833.1	768.1	660.8	565.6	524.0
38.5°	701.5	821.5	893.0	926.3	850.9	840.6	796.2	733.8	628.8	536.2	496.4
39°	669.6	788.4	856.1	889.7	814.5	803.2	760.1	700.0	599.7	508.7	470.8
39.5°	638.8	755.4	819.3	851.6	778.2	765.1	725.0	667.6	571.1	482.6	447.7
40°	608.9	721.3	782.2	813.8	741.6	727.8	690.2	634.5	544.0	458.3	425.4
40.5°	578.9	688.4	745.3	775.9	705.0	691.4	657.3	602.7	516.4	435.2	404.1
41°	550.5	654.6	709.5	738.1	671.1	656.1	626.0	572.6	490.9	414.2	385.1
41.5°	523.5	622.7	676.4	702.5	636.5	620.7	594.7	544.0	466.6	393.6	367.8
42°	497.1	590.6	643.5	667.4	604.9	586.4	563.1	515.4	443.2	375.5	350.2
42.5°	472.1	560.3	611.5	633.3	572.6	554.0	532.7	488.9	420.2	357.0	333.4
43°	448.5	531.5	580.6	599.2	541.8	522.7	502.9	462.8	398.4	339.7	317.4
43.5°	424.7	503.4	549.5	566.6	511.7	493.4	473.8	438.0	377.8	322.9	301.3



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	361.0	425.4	460.3	475.8	427.7	412.1	393.3	369.3	320.1	275.8	257.0
45.5°	341.5	401.6	432.5	448.8	402.1	388.1	370.3	348.2	302.6	261.0	242.9
46°	322.1	378.6	405.9	422.2	376.8	365.3	348.0	328.4	285.5	246.4	230.4
46.5°	304.1	357.7	382.8	397.9	353.7	343.5	327.4	309.4	269.3	232.6	217.9
47°	286.8	337.2	360.5	374.0	331.2	322.4	307.9	290.8	253.0	219.6	205.1
47.5°	270.3	317.6	338.9	351.7	310.9	302.8	289.8	273.3	238.4	206.8	192.5
48°	254.2	298.8	318.9	330.7	291.3	284.3	272.3	256.7	224.6	193.8	180.0
48.5°	238.4	281.0	300.3	310.1	272.5	266.5	255.7	240.9	211.1	181.0	166.0
49°	223.9	263.7	282.3	291.8	255.5	249.7	239.9	226.9	197.3	166.2	150.4
49.5°	211.1	247.4	265.2	273.0	238.9	235.7	226.1	212.8	183.5	150.2	134.6
50°	197.6	232.1	248.7	256.5	225.1	221.6	212.3	199.1	169.5	134.4	118.8
50.5°	184.8	217.9	233.2	239.2	211.3	207.3	198.3	185.0	152.9	118.6	104.8
51°	171.2	203.8	218.6	224.4	197.3	193.3	184.5	171.0	136.4	103.8	91.3
51.5°	156.2	190.5	204.8	210.1	183.5	179.2	170.5	154.9	120.3	90.5	79.2
52°	140.1	176.7	190.8	196.3	169.5	165.0	154.2	138.4	105.3	79.2	69.4
52.5°	124.6	161.7	176.7	183.3	154.2	149.2	137.4	121.8	91.8	69.2	60.9
53°	109.1	145.2	161.5	168.7	137.6	132.4	120.8	106.5	80.0	60.9	53.6
53.5°	95.0	128.9	144.7	153.4	121.8	116.1	105.8	92.5	69.9	53.6	47.4
54°	85.7	112.8	127.4	136.4	106.0	101.3	91.5	80.7	61.4	47.6	42.1
54.5°	76.5	98.5	111.3	120.3	91.8	87.7	79.2	70.4	54.2	42.1	37.6
55°	67.2	85.2	97.0	104.0	79.5	76.0	68.9	61.7	47.6	37.6	33.6
55.5°	57.9	76.7	85.0	90.8	68.7	65.9	60.4	53.9	42.4	33.6	30.1
56°	48.9	67.9	76.0	81.7	59.7	57.2	52.9	47.6	37.6	30.1	27.1
56.5°	43.1	59.2	67.2	72.7	52.1	50.4	46.6	42.1	33.6	27.1	24.3
57°	38.1	50.6	58.4	63.7	45.9	44.4	41.1	37.4	30.1	24.6	22.3
57.5°	34.1	44.9	49.6	54.9	40.4	39.1	36.6	33.3	27.1	22.6	20.6
58°	30.3	39.9	43.9	45.9	35.8	34.8	32.6	29.8	24.3	20.6	18.6
58.5°	27.3	35.3	38.9	40.4	31.8	31.1	29.1	26.6	22.3	18.6	16.8
59°	24.6	31.6	34.6	35.8	28.3	27.6	26.1	24.1	20.6	16.8	14.8
59.5°	22.1	28.3	30.8	31.8	25.3	24.8	24.1	22.1	18.6	14.8	13.5
60°	19.8	25.3	27.6	28.3	23.3	22.8	22.1	20.3	16.5	13.5	12.3
60.5°	18.1	22.8	24.8	25.3	21.3	20.8	20.1	18.3	14.8	12.3	11.0
61°	16.3	20.6	22.3	22.8	19.3	18.8	18.1	16.3	13.3	11.0	10.3
61.5°	14.8	18.6	20.1	20.6	17.3	16.8	16.0	14.5	12.0	10.3	9.3
62°	13.3	16.8	18.1	18.6	15.0	14.8	14.0	13.0	11.0	9.3	8.5
62.5°	12.3	15.3	16.5	16.8	13.8	13.5	12.8	12.0	10.0	8.5	7.8
63°	11.0	13.8	15.0	15.3	12.5	12.3	11.5	10.8	9.3	7.8	7.0
63.5°	10.0	12.5	13.5	13.8	11.3	11.0	10.5	9.8	8.3	7.0	6.5
64°	9.3	11.5	12.3	12.5	10.3	10.0	9.5	9.0	7.8	6.5	6.0
64.5°	8.5	10.5	11.3	11.3	9.3	9.3	8.8	8.3	7.0	6.0	5.5
65°	8.0	9.5	10.3	10.3	8.5	8.5	8.0	7.5	6.5	5.5	5.0
65.5°	7.3	8.8	9.3	9.5	7.8	7.8	7.3	6.8	6.0	5.0	4.5
66°	6.5	8.0	8.5	8.8	7.3	7.0	6.8	6.3	5.3	4.5	4.3



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	5.0	6.0	6.5	6.5	5.5	5.5	5.0	4.8	4.0	3.5	3.3
68°	4.5	5.5	6.0	6.0	5.0	5.0	4.8	4.5	3.8	3.3	3.0
68.5°	4.0	5.0	5.5	5.5	4.5	4.5	4.3	4.0	3.5	3.0	2.8
69°	3.8	4.8	5.0	5.0	4.3	4.3	4.0	3.8	3.3	2.8	2.5
69.5°	3.5	4.3	4.5	4.8	4.0	3.8	3.5	3.5	2.8	2.5	2.3
70°	3.0	4.0	4.3	4.3	3.5	3.5	3.3	3.0	2.5	2.3	2.0
70.5°	2.8	3.5	3.8	4.0	3.3	3.3	3.0	2.8	2.5	2.0	2.0
71°	2.5	3.3	3.5	3.5	3.0	3.0	2.8	2.5	2.3	2.0	1.8
71.5°	2.3	3.0	3.3	3.3	2.8	2.8	2.5	2.5	2.0	1.8	1.8
72°	2.3	2.8	3.0	3.0	2.5	2.5	2.3	2.3	1.8	1.5	1.5
72.5°	2.0	2.5	2.8	2.8	2.3	2.3	2.3	2.0	1.8	1.5	1.3
73°	1.8	2.3	2.5	2.5	2.3	2.0	2.0	1.8	1.5	1.3	1.3
73.5°	1.8	2.0	2.3	2.3	2.0	2.0	1.8	1.8	1.3	1.3	1.3
74°	1.5	2.0	2.0	2.3	1.8	1.8	1.8	1.5	1.3	1.0	1.0
74.5°	1.3	1.8	2.0	2.0	1.8	1.5	1.5	1.5	1.3	1.0	1.0
75°	1.3	1.5	1.8	1.8	1.5	1.5	1.5	1.3	1.0	0.8	0.8
75.5°	1.0	1.5	1.5	1.8	1.5	1.3	1.3	1.3	1.0	0.8	0.8
76°	1.0	1.3	1.5	1.5	1.3	1.3	1.3	1.0	0.8	0.8	0.8
76.5°	1.0	1.3	1.3	1.5	1.3	1.3	1.0	1.0	0.8	0.5	0.5
77°	0.8	1.0	1.3	1.3	1.0	1.0	1.0	0.8	0.8	0.5	0.5
77.5°	0.8	1.0	1.0	1.3	1.0	1.0	0.8	0.8	0.5	0.5	0.5
78°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.5	0.5	0.5
78.5°	0.5	0.8	1.0	1.0	0.8	0.8	0.8	0.5	0.5	0.5	0.5
79°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.3	0.3
79.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.3	0.3
80°	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3
80.5°	0.3	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3
81°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
81.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.0	0.3
82.5°	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.0	0.0
83°	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
84°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
84.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.3	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: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

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: P775957

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2496.0	2496.0	2496.0	2496.0	2496.0	2496.0
0.5°	2486.9	2495.7	2496.0	2495.7	2495.5	2496.7
1°	2481.2	2491.9	2492.4	2492.7	2493.0	2496.5
1.5°	2474.6	2487.2	2487.4	2488.4	2489.9	2495.0
2°	2467.6	2481.2	2482.2	2483.2	2485.4	2492.4
2.5°	2459.9	2474.6	2475.4	2477.2	2479.9	2489.4
3°	2451.3	2467.1	2468.4	2470.4	2474.1	2485.4
3.5°	2442.8	2459.4	2460.6	2463.1	2467.9	2480.9
4°	2433.3	2450.8	2452.1	2455.3	2460.9	2475.9
4.5°	2423.8	2441.8	2442.8	2446.8	2453.3	2470.4
5°	2412.2	2432.0	2433.8	2438.0	2445.8	2464.9
5.5°	2399.9	2421.5	2423.5	2428.8	2437.5	2458.4
6°	2386.7	2410.2	2412.7	2418.7	2428.5	2451.1
6.5°	2370.1	2397.4	2399.9	2407.7	2418.7	2443.3
7°	2353.3	2382.9	2386.7	2395.9	2408.5	2435.3
7.5°	2332.5	2367.4	2371.4	2383.1	2397.7	2426.8
8°	2311.9	2348.5	2355.1	2368.6	2385.2	2416.7
8.5°	2287.4	2328.5	2336.3	2352.3	2371.4	2406.2
9°	2262.1	2306.2	2315.5	2334.5	2356.8	2394.4
9.5°	2234.2	2281.9	2292.1	2314.7	2340.8	2382.1
10°	2206.4	2255.5	2267.6	2292.6	2323.2	2368.6
10.5°	2178.6	2227.5	2241.2	2268.8	2302.9	2353.6
11°	2151.5	2199.1	2214.2	2243.8	2281.6	2337.8
11.5°	2124.4	2170.6	2185.1	2217.2	2259.0	2320.5
12°	2102.9	2143.5	2158.8	2190.4	2234.5	2301.9
12.5°	2081.6	2118.4	2132.2	2163.5	2208.9	2282.1
13°	2061.5	2095.1	2109.4	2139.7	2184.6	2260.6
13.5°	2042.4	2073.5	2088.1	2116.2	2160.8	2238.2
14°	2022.9	2053.2	2067.8	2095.3	2137.7	2216.4
14.5°	2006.3	2034.7	2049.2	2075.8	2116.2	2194.6
15°	1987.5	2015.4	2030.4	2056.2	2095.6	2172.1
15.5°	1971.0	1997.6	2012.4	2037.2	2076.0	2151.0
16°	1954.2	1980.8	1994.1	2018.4	2056.2	2130.4
16.5°	1935.1	1963.5	1977.0	2000.6	2036.9	2111.9
17°	1914.8	1947.2	1959.5	1982.3	2019.6	2092.6
17.5°	1888.3	1928.9	1941.9	1964.2	2001.1	2073.8
18°	1861.9	1907.6	1921.4	1946.2	1983.0	2055.2
18.5°	1835.6	1883.8	1899.0	1925.4	1964.0	2037.4
19°	1809.3	1857.9	1875.7	1903.8	1944.2	2019.9
19.5°	1782.7	1829.6	1849.4	1878.5	1922.4	2001.6
20°	1750.6	1799.5	1820.8	1852.2	1899.3	1982.5
20.5°	1716.0	1768.4	1791.5	1823.3	1874.0	1962.2
21°	1681.9	1737.6	1759.4	1792.0	1846.6	1939.9



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1576.9	1644.3	1657.1	1688.5	1753.6	1866.2
23°	1540.0	1611.2	1620.8	1652.6	1720.8	1839.6
23.5°	1505.9	1576.9	1584.7	1618.3	1686.7	1811.6
24°	1467.3	1539.8	1549.3	1583.4	1653.4	1783.0
24.5°	1432.2	1503.2	1512.0	1548.3	1619.0	1754.1
25°	1395.1	1462.8	1475.9	1514.7	1586.7	1723.6
25.5°	1358.8	1425.0	1439.8	1479.6	1553.3	1691.2
26°	1321.9	1386.6	1402.7	1445.0	1520.5	1657.1
26.5°	1286.1	1348.3	1367.1	1408.7	1486.6	1621.5
27°	1248.7	1307.6	1329.0	1372.1	1451.0	1585.4
27.5°	1212.6	1268.8	1291.6	1335.0	1415.2	1548.6
28°	1175.3	1229.4	1254.0	1294.6	1378.1	1510.2
28.5°	1138.2	1189.6	1217.1	1258.5	1340.0	1471.9
29°	1099.1	1151.2	1179.0	1220.2	1301.6	1432.2
29.5°	1060.2	1112.6	1142.2	1183.0	1261.0	1394.6
30°	1023.1	1075.5	1104.8	1146.9	1222.4	1355.3
30.5°	984.5	1038.9	1066.2	1109.8	1182.3	1314.9
31°	948.6	1003.5	1028.4	1073.5	1142.7	1275.1
31.5°	912.8	968.2	990.3	1037.1	1103.3	1234.4
32°	878.2	933.9	953.7	1000.8	1065.5	1193.8
32.5°	844.6	898.0	917.3	964.4	1028.1	1153.5
33°	810.3	864.9	883.5	927.1	990.3	1112.9
33.5°	777.9	831.8	849.4	887.2	952.7	1073.5
34°	744.8	798.7	815.3	852.9	915.1	1032.4
34.5°	713.5	765.6	781.2	818.5	877.9	992.8
35°	682.7	733.5	747.3	784.2	840.8	953.2
35.5°	652.1	704.0	715.0	749.8	803.7	914.0
36°	622.7	674.4	683.9	716.0	766.6	878.4
36.5°	594.9	647.1	653.1	682.7	729.8	842.6
37°	567.6	618.2	623.7	649.3	694.7	806.7
37.5°	541.8	590.9	594.7	616.5	661.3	771.2
38°	516.2	564.1	567.1	584.6	628.8	735.3
38.5°	491.4	538.0	540.3	553.5	598.7	701.5
39°	468.3	514.2	514.2	523.0	569.3	669.6
39.5°	444.5	489.1	489.9	494.9	540.5	638.8
40°	422.9	466.6	465.3	467.8	512.4	608.9
40.5°	401.4	443.5	442.2	443.2	485.4	578.9
41°	381.1	422.2	419.7	419.9	460.3	550.5
41.5°	362.3	400.6	398.1	399.1	436.2	523.5
42°	343.7	380.8	378.1	379.3	414.2	497.1
42.5°	326.4	361.3	358.8	361.0	392.3	472.1
43°	308.6	342.5	340.2	343.5	372.3	448.5
43.5°	292.6	324.4	322.6	327.2	353.2	424.7



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	246.7	274.0	273.8	280.3	302.1	361.0
45.5°	233.2	258.2	258.5	266.0	286.3	341.5
46°	220.6	243.2	243.9	251.5	271.0	322.1
46.5°	208.1	229.1	230.1	237.7	256.2	304.1
47°	195.5	216.1	217.4	224.6	241.9	286.8
47.5°	182.8	203.8	204.8	212.1	227.9	270.3
48°	170.7	191.3	192.8	200.1	214.8	254.2
48.5°	155.9	179.5	181.3	188.3	202.6	238.4
49°	140.4	166.5	168.7	176.5	190.3	223.9
49.5°	124.6	152.4	155.2	164.0	178.0	211.1
50°	109.6	137.1	140.4	149.9	165.2	197.6
50.5°	95.8	121.3	125.3	134.9	150.4	184.8
51°	82.7	106.0	110.1	120.1	135.1	171.2
51.5°	72.2	92.5	96.0	105.3	120.1	156.2
52°	62.9	83.2	86.7	91.8	105.0	140.1
52.5°	55.4	74.2	77.2	82.7	91.5	124.6
53°	48.6	65.4	67.7	73.7	82.7	109.1
53.5°	43.1	56.4	58.4	64.9	73.7	95.0
54°	38.4	47.4	48.9	55.9	64.7	85.7
54.5°	34.3	41.6	43.1	46.9	55.7	76.5
55°	30.6	37.1	38.4	41.6	46.9	67.2
55.5°	27.6	33.1	34.1	36.9	41.4	57.9
56°	24.8	29.6	30.6	32.8	36.9	48.9
56.5°	22.8	26.6	27.3	29.3	32.8	43.1
57°	20.8	24.1	24.6	26.3	29.3	38.1
57.5°	18.8	21.6	22.1	23.6	26.3	34.1
58°	16.8	19.6	20.1	21.3	23.6	30.3
58.5°	15.0	17.5	18.1	19.3	21.3	27.3
59°	13.5	16.0	16.3	17.5	19.3	24.6
59.5°	12.3	14.5	14.8	15.8	17.3	22.1
60°	11.3	13.3	13.5	14.3	15.8	19.8
60.5°	10.3	12.0	12.3	13.0	14.3	18.1
61°	9.3	10.8	11.0	11.8	13.0	16.3
61.5°	8.5	10.0	10.3	10.8	11.8	14.8
62°	7.8	9.3	9.5	9.8	10.8	13.3
62.5°	7.0	8.5	8.8	9.0	9.8	12.3
63°	6.5	7.8	8.0	8.3	9.0	11.0
63.5°	6.0	7.0	7.3	7.5	8.3	10.0
64°	5.5	6.3	6.5	6.8	7.5	9.3
64.5°	5.0	5.8	6.0	6.3	6.8	8.5
65°	4.5	5.3	5.5	5.8	6.3	8.0
65.5°	4.3	5.0	5.0	5.3	5.8	7.3
66°	3.8	4.5	4.5	4.8	5.3	6.5



TEST NUMBER: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	3.0	3.5	3.5	3.8	4.0	5.0
68°	2.8	3.3	3.3	3.5	3.8	4.5
68.5°	2.5	3.0	3.0	3.3	3.5	4.0
69°	2.3	2.8	2.8	2.8	3.0	3.8
69.5°	2.0	2.5	2.5	2.8	2.8	3.5
70°	2.0	2.3	2.3	2.5	2.5	3.0
70.5°	1.8	2.0	2.0	2.3	2.3	2.8
71°	1.8	2.0	2.0	2.0	2.3	2.5
71.5°	1.5	1.8	1.8	1.8	2.0	2.3
72°	1.3	1.5	1.5	1.8	1.8	2.3
72.5°	1.3	1.5	1.5	1.5	1.8	2.0
73°	1.3	1.3	1.3	1.5	1.5	1.8
73.5°	1.0	1.3	1.3	1.3	1.3	1.8
74°	1.0	1.0	1.0	1.3	1.3	1.5
74.5°	0.8	1.0	1.0	1.0	1.0	1.3
75°	0.8	1.0	1.0	1.0	1.0	1.3
75.5°	0.8	0.8	0.8	1.0	1.0	1.0
76°	0.8	0.8	0.8	0.8	0.8	1.0
76.5°	0.5	0.8	0.8	0.8	0.8	1.0
77°	0.5	0.5	0.8	0.8	0.8	0.8
77.5°	0.5	0.5	0.5	0.5	0.5	0.8
78°	0.5	0.5	0.5	0.5	0.5	0.8
78.5°	0.5	0.5	0.5	0.5	0.5	0.5
79°	0.3	0.5	0.5	0.5	0.5	0.5
79.5°	0.3	0.3	0.3	0.3	0.3	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.5
80.5°	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.3	0.3	0.3	0.3	0.3
83°	0.0	0.3	0.3	0.3	0.0	0.3
83.5°	0.0	0.0	0.0	0.0	0.0	0.3
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: P775957

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-2500lm-3500K

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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21.5°	1916.3	2005.1	2053.5	2077.3	2039.9	2027.2	1998.8	1939.7	1842.6	1730.6	1668.4
22°	1892.0	1985.5	2034.9	2058.5	2017.4	2006.3	1978.3	1917.3	1817.1	1695.2	1634.3



44°	402.4	475.8	518.4	535.5	483.3	465.0	445.2	413.7	358.0	307.1	286.3
44.5°	381.3	450.0	489.1	505.2	455.3	437.7	418.9	391.3	338.7	291.1	271.5



66.5°	5.8	7.3	8.0	8.0	6.5	6.5	6.0	5.8	5.0	4.3	3.8
67°	5.3	6.5	7.3	7.3	6.0	5.8	5.5	5.3	4.5	3.8	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°	1647.3	1706.8	1726.3	1758.2	1817.3	1916.3
22°	1613.2	1675.4	1692.0	1722.8	1786.0	1892.0



44°	277.0	306.9	305.6	310.6	335.2	402.4
44.5°	261.7	290.1	289.3	295.6	318.6	381.3



66.5°	3.5	4.0	4.3	4.5	4.8	5.8
67°	3.3	3.8	3.8	4.0	4.5	5.3

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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)