

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: P775980

Luminaire Tested: HCDJBL51525CSD-HCD4TRH-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775980
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-HCD4TRH-2500lm-2700K
Description: 4 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

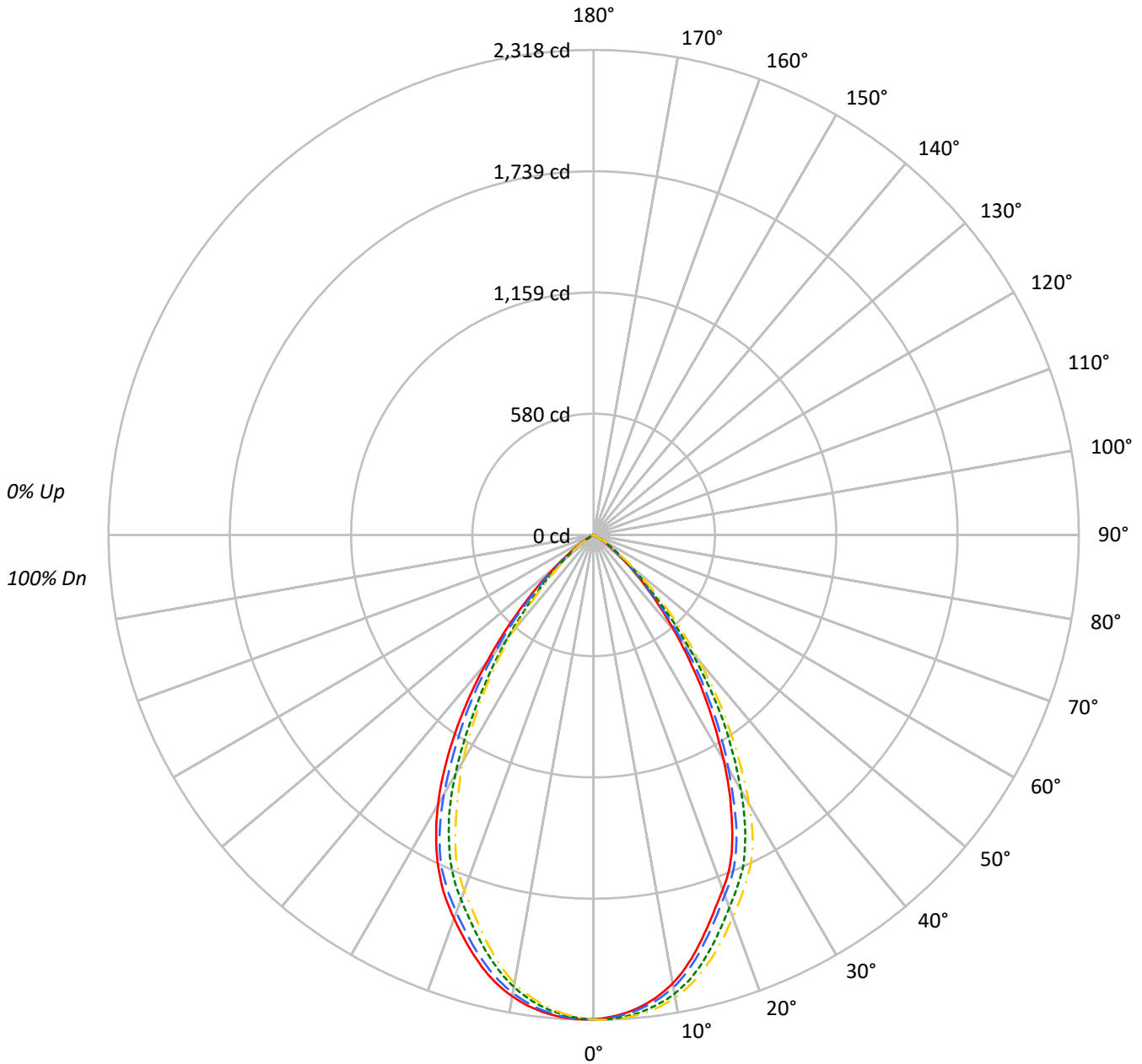
Lumens per Lamp: N/A
Luminaire Lumens: 2609.5 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.98
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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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	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	90	85	82	87	84	81	85	82	79	78					78			
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65					65			
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60					60			
7	80	70	63	58	78	69	63	58	68	62	58	66	61	58	65	61	57	56					56			
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52					52			
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	58	53	49	48					48			
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	291443	291443	291443	291443
5°	287503	290295	290851	288514
10°	278138	284514	286214	280400
15°	260461	271354	275809	265425
20°	241617	253938	261184	248260
25°	217677	236381	243782	226953
30°	180573	204522	216176	192228
35°	138931	164588	177017	146675
40°	98604	117990	131100	104108
45°	63912	75605	85786	64998
50°	36965	43974	47870	35438
55°	18189	22161	22446	16324
60°	7626	8658	8910	6343
65°	3961	4109	4258	3305
70°	2318	2392	2576	1950
75°	1410	1556	1556	1167
80°	725	1087	870	725
85°	289	722	289	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 87726 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	8.3
10°-20°	576.8	22.1
20°-30°	756.1	29.0
30°-40°	633.2	24.3
40°-50°	321.0	12.3
50°-60°	87.7	3.4
60°-70°	14.8	0.6
70°-80°	3.4	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°	1549.0	59.4
0°-40°	2182.2	83.6
0°-60°	2590.9	99.3
0°-90°	2609.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2316	2316	2316	2316	2316	
5°	2276	2298	2302	2284	2276	214
15°	1999	2083	2117	2037	1999	560
25°	1568	1702	1756	1634	1568	711
35°	904	1071	1152	955	904	563
45°	359	425	482	365	359	283
55°	83	101	102	74	83	80
65°	13	14	14	11	13	15
75°	3	3	3	2	3	3
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°	2315.8	2315.8	2315.8	2315.8	2315.8	2315.8	2315.8	2315.8	2315.8	2315.8	2315.8
0.5°	2313.2	2313.4	2314.4	2316.1	2316.8	2317.5	2317.8	2317.5	2315.6	2315.1	2315.3
1°	2311.2	2311.5	2313.2	2315.1	2316.8	2317.8	2318.3	2318.0	2316.3	2315.3	2315.3
1.5°	2308.6	2309.5	2311.5	2313.9	2316.3	2317.8	2318.3	2318.3	2316.1	2315.1	2314.1
2°	2305.6	2307.1	2309.0	2312.2	2315.1	2317.0	2318.3	2318.0	2315.6	2314.1	2313.4
2.5°	2302.0	2303.7	2306.6	2309.8	2313.6	2316.3	2317.5	2317.0	2314.6	2312.7	2311.7
3°	2297.9	2300.1	2303.0	2307.1	2311.2	2314.4	2316.1	2316.1	2312.9	2311.0	2309.5
3.5°	2293.0	2295.7	2299.3	2303.2	2308.8	2312.4	2314.1	2313.9	2311.2	2308.8	2306.9
4°	2288.0	2290.9	2294.5	2299.1	2305.9	2309.8	2312.2	2311.7	2308.8	2306.1	2304.0
4.5°	2282.4	2285.3	2289.7	2294.7	2302.3	2306.9	2309.8	2309.3	2305.4	2302.7	2300.1
5°	2275.8	2279.7	2283.8	2289.2	2297.9	2303.5	2306.4	2305.9	2302.3	2299.1	2296.2
5.5°	2269.1	2272.7	2277.8	2283.6	2293.3	2299.3	2302.7	2302.0	2298.1	2294.7	2291.4
6°	2261.1	2265.4	2271.5	2277.5	2287.7	2294.7	2298.6	2298.1	2293.8	2290.1	2286.5
6.5°	2253.3	2258.4	2264.2	2271.2	2282.1	2289.9	2294.3	2293.3	2288.9	2284.6	2280.4
7°	2244.3	2249.7	2256.5	2264.2	2275.8	2284.3	2288.9	2288.4	2283.4	2279.0	2274.1
7.5°	2234.9	2240.2	2248.0	2256.5	2269.1	2278.3	2282.9	2282.4	2277.5	2272.5	2267.1
8°	2224.7	2230.8	2239.0	2248.2	2261.8	2271.5	2276.3	2275.4	2271.2	2265.7	2259.6
8.5°	2213.8	2220.1	2229.1	2239.0	2253.8	2264.0	2269.5	2269.1	2264.0	2258.2	2251.4
9°	2201.9	2208.7	2218.2	2229.3	2245.6	2256.2	2261.8	2261.3	2256.5	2250.2	2242.6
9.5°	2189.8	2196.8	2207.0	2218.9	2236.1	2247.5	2253.8	2253.3	2248.7	2241.7	2233.2
10°	2176.5	2184.2	2195.2	2207.8	2226.4	2238.3	2244.3	2244.6	2239.7	2232.7	2223.3
10.5°	2162.0	2170.2	2182.8	2195.6	2215.5	2227.9	2234.9	2235.6	2230.5	2222.5	2213.1
11°	2147.4	2155.9	2168.5	2183.0	2204.1	2217.2	2225.0	2225.2	2220.4	2212.4	2201.7
11.5°	2130.9	2140.6	2153.7	2169.2	2192.2	2206.1	2214.1	2214.8	2209.9	2201.2	2189.6
12°	2113.7	2123.7	2137.7	2154.7	2179.4	2193.5	2202.2	2203.4	2198.8	2189.6	2177.5
12.5°	2096.0	2106.2	2121.0	2138.7	2164.9	2180.4	2190.5	2192.0	2186.9	2177.2	2164.4
13°	2077.9	2088.5	2103.6	2122.9	2150.1	2167.0	2177.0	2178.9	2174.1	2163.9	2150.6
13.5°	2058.7	2069.4	2085.9	2105.0	2134.6	2151.8	2163.7	2165.8	2160.7	2150.3	2136.5
14°	2038.9	2050.5	2066.7	2087.1	2118.1	2136.8	2148.9	2151.3	2146.4	2136.3	2121.0
14.5°	2019.2	2030.1	2047.1	2068.2	2100.6	2120.8	2133.6	2137.2	2132.4	2121.5	2106.0
15°	1999.1	2010.7	2027.5	2049.8	2082.7	2104.3	2118.1	2121.2	2116.9	2105.7	2090.2
15.5°	1978.8	1990.6	2007.6	2030.4	2065.0	2087.1	2102.3	2106.2	2101.4	2090.5	2074.2
16°	1958.9	1970.5	1988.2	2010.7	2046.6	2070.1	2086.1	2090.2	2085.9	2074.2	2057.8
16.5°	1938.3	1950.4	1968.1	1991.8	2028.4	2052.7	2068.7	2074.7	2069.9	2058.2	2040.8
17°	1918.7	1930.1	1948.2	1971.7	2009.1	2035.0	2051.5	2057.8	2053.2	2041.8	2023.4
17.5°	1898.3	1910.2	1927.9	1952.4	1989.9	2016.3	2034.3	2040.3	2036.4	2024.3	2006.4
18°	1878.4	1890.6	1908.5	1933.0	1971.3	1998.4	2016.3	2022.9	2019.2	2007.4	1988.2
18.5°	1858.3	1870.4	1888.4	1913.1	1952.1	1980.0	1998.6	2006.4	2001.5	1990.2	1970.3
19°	1839.9	1851.5	1869.2	1894.0	1933.2	1961.1	1980.7	1987.5	1984.3	1972.7	1952.8
19.5°	1821.3	1832.9	1850.8	1875.1	1915.0	1942.9	1962.8	1970.0	1967.1	1955.5	1935.9
20°	1804.1	1815.0	1832.4	1856.9	1896.1	1924.5	1944.4	1953.1	1950.2	1938.5	1918.4
20.5°	1785.6	1797.0	1814.5	1838.5	1878.2	1906.1	1926.9	1935.6	1933.0	1921.6	1901.0
21°	1767.7	1778.9	1796.8	1820.3	1860.3	1888.4	1909.0	1917.5	1915.8	1904.4	1883.8



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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°	1703.2	1719.0	1740.1	1766.0	1805.3	1834.8	1856.4	1866.1	1862.9	1850.3	1828.8
23°	1679.7	1695.3	1718.0	1746.1	1786.8	1815.2	1838.7	1847.7	1843.8	1828.8	1809.4
23.5°	1653.6	1669.3	1694.5	1723.6	1768.2	1795.8	1819.8	1827.8	1821.7	1807.4	1790.0
24°	1625.7	1642.7	1668.8	1699.6	1749.5	1776.2	1800.7	1807.9	1799.7	1785.9	1770.4
24.5°	1596.4	1613.6	1641.9	1674.2	1726.5	1756.8	1781.8	1788.3	1777.6	1764.3	1751.0
25°	1567.6	1584.5	1614.1	1646.3	1702.3	1737.4	1762.9	1768.4	1755.6	1742.7	1727.0
25.5°	1536.3	1554.0	1584.5	1617.2	1676.8	1713.9	1743.7	1748.6	1733.5	1718.8	1702.5
26°	1506.0	1525.1	1554.0	1585.5	1649.7	1689.2	1721.2	1724.1	1708.3	1691.9	1676.8
26.5°	1474.3	1494.9	1521.5	1552.5	1622.3	1663.5	1697.2	1700.1	1682.9	1665.4	1649.7
27°	1443.2	1464.1	1488.3	1519.1	1594.0	1636.4	1672.0	1672.7	1656.2	1639.0	1621.6
27.5°	1410.8	1432.6	1452.9	1486.4	1565.4	1609.7	1645.6	1646.3	1629.3	1612.4	1592.0
28°	1378.8	1400.8	1419.0	1454.4	1535.3	1581.8	1616.5	1617.2	1602.2	1585.0	1561.7
28.5°	1345.1	1368.6	1384.8	1422.6	1503.3	1553.5	1586.0	1588.4	1575.5	1557.4	1530.5
29°	1311.7	1335.7	1350.7	1391.6	1471.6	1523.9	1554.7	1557.9	1547.0	1528.5	1498.2
29.5°	1277.5	1301.2	1318.2	1361.6	1438.9	1493.6	1521.0	1526.8	1517.9	1499.2	1464.8
30°	1242.6	1265.9	1286.2	1330.8	1407.4	1462.1	1485.9	1493.6	1487.6	1468.2	1429.2
30.5°	1206.7	1230.7	1254.2	1300.8	1371.5	1428.7	1449.1	1460.2	1457.1	1436.9	1393.6
31°	1171.8	1195.6	1222.5	1268.3	1337.8	1394.3	1413.7	1425.6	1424.8	1405.4	1357.9
31.5°	1137.2	1160.0	1190.7	1236.5	1304.4	1357.9	1376.1	1390.2	1392.4	1371.8	1321.4
32°	1102.8	1125.1	1158.5	1202.4	1273.1	1322.3	1339.8	1354.1	1358.9	1337.8	1286.0
32.5°	1070.1	1090.2	1125.8	1168.7	1238.7	1286.7	1303.9	1318.9	1326.4	1303.9	1250.6
33°	1037.4	1057.0	1093.3	1133.6	1205.5	1249.6	1269.0	1283.6	1292.0	1270.7	1215.5
33.5°	1003.9	1023.8	1059.9	1097.9	1172.8	1212.3	1234.1	1248.2	1258.4	1235.6	1181.3
34°	971.2	990.1	1025.5	1061.8	1140.8	1173.5	1199.7	1213.3	1223.0	1199.5	1147.4
34.5°	938.0	955.9	991.1	1027.7	1105.5	1135.0	1165.5	1179.1	1188.3	1164.8	1113.9
35°	904.3	921.3	957.4	994.0	1071.3	1096.5	1130.7	1145.4	1152.2	1129.0	1080.0
35.5°	873.3	888.8	924.2	961.5	1035.9	1059.4	1096.2	1112.0	1117.3	1091.9	1046.6
36°	841.8	857.1	891.5	929.8	1002.5	1022.6	1061.6	1077.8	1080.3	1055.5	1013.1
36.5°	809.8	825.6	869.0	897.8	964.2	986.7	1026.9	1044.6	1043.9	1018.7	979.0
37°	778.1	793.8	835.5	861.2	928.6	951.1	991.3	1010.0	1007.1	982.8	944.3
37.5°	746.3	762.3	802.3	830.7	891.7	916.9	955.5	975.8	972.2	947.0	909.7
38°	714.6	730.8	769.1	799.9	856.8	883.7	920.1	941.2	936.3	911.6	874.5
38.5°	684.8	701.8	735.7	769.4	820.0	849.8	885.4	906.5	901.2	876.7	840.4
39°	656.2	673.2	704.9	738.8	785.8	817.1	851.0	871.9	867.0	842.8	806.9
39.5°	627.8	643.8	674.1	706.1	750.7	783.7	817.3	838.2	832.8	808.6	774.2
40°	600.2	614.8	643.6	673.4	718.2	751.9	783.7	804.0	798.0	775.2	741.0
40.5°	572.6	587.6	614.0	641.9	684.1	719.0	751.2	770.6	764.3	741.7	710.5
41°	546.2	560.2	584.2	610.9	652.8	687.7	719.7	738.8	730.6	707.3	678.2
41.5°	520.5	535.0	555.4	581.1	621.3	656.2	687.9	706.6	697.4	674.6	647.5
42°	495.8	509.6	527.5	552.0	591.3	626.1	657.2	675.1	663.9	642.6	616.5
42.5°	470.8	484.9	500.6	523.6	561.7	595.6	626.9	643.1	632.0	611.1	586.2
43°	447.1	460.6	473.7	495.5	532.9	566.3	596.8	612.6	600.5	581.1	556.1
43.5°	424.1	437.6	448.5	467.4	504.0	537.5	567.5	582.8	569.4	550.1	526.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	359.1	371.7	377.5	388.0	424.8	456.5	483.9	492.9	482.0	464.8	440.8
45.5°	339.2	351.4	355.5	363.7	400.8	430.4	457.5	464.0	454.6	438.1	413.9
46°	319.6	331.7	334.2	339.5	377.0	405.9	432.5	436.9	428.2	411.5	388.2
46.5°	301.0	312.8	313.3	317.0	354.5	382.1	406.9	409.0	402.2	385.5	363.2
47°	282.3	293.9	293.9	296.1	332.9	358.9	382.1	383.3	376.8	361.8	338.8
47.5°	265.6	276.2	275.3	276.2	312.1	336.6	357.9	358.1	352.3	338.5	316.0
48°	248.9	259.5	257.6	257.8	292.2	315.5	335.1	334.4	328.8	314.3	294.2
48.5°	232.9	243.3	241.1	241.3	273.6	295.4	312.3	311.1	306.3	292.5	273.3
49°	217.4	227.5	224.9	225.8	255.9	275.8	290.5	289.3	284.7	271.9	253.2
49.5°	202.8	212.5	210.1	211.1	238.9	257.3	269.9	269.0	263.6	251.8	236.3
50°	188.8	198.0	196.3	197.7	224.6	239.9	250.1	249.6	244.5	235.0	219.5
50.5°	175.4	184.2	183.2	184.9	210.1	224.6	233.4	232.9	228.0	218.3	202.8
51°	162.6	170.8	170.8	173.0	195.8	209.4	216.6	216.1	211.3	201.4	186.1
51.5°	150.2	158.2	158.7	161.4	181.3	194.3	199.9	199.7	194.6	184.6	169.4
52°	138.8	146.4	147.3	150.5	167.0	179.1	183.2	182.9	177.9	167.9	155.1
52.5°	127.7	135.0	136.4	139.6	154.6	163.8	166.5	166.5	161.4	152.9	141.8
53°	117.3	123.8	125.8	129.2	142.5	151.0	152.9	152.7	147.8	139.8	129.6
53.5°	107.3	113.4	115.8	119.2	131.6	138.6	140.3	139.3	135.2	127.7	118.0
54°	98.1	103.7	106.4	109.5	120.9	126.5	128.4	127.2	123.3	116.6	107.6
54.5°	90.1	95.0	97.4	100.6	110.5	115.3	117.0	115.8	112.0	105.7	97.7
55°	82.9	86.7	89.2	92.1	101.0	105.2	106.4	105.7	102.3	96.2	89.4
55.5°	75.8	79.7	81.9	84.8	92.1	95.5	96.7	96.2	93.0	88.0	81.4
56°	68.6	72.7	74.6	77.3	83.8	86.7	88.0	87.5	84.8	80.2	73.2
56.5°	61.3	65.7	67.4	69.8	76.1	78.8	80.0	79.2	76.8	71.7	65.4
57°	54.0	58.4	60.1	62.3	68.1	70.8	72.0	71.0	69.1	64.5	58.4
57.5°	48.7	51.4	52.8	54.8	60.6	63.0	64.0	63.7	61.5	57.4	52.1
58°	44.1	46.3	47.5	48.9	54.0	56.0	56.9	56.7	55.0	51.4	46.5
58.5°	40.0	41.9	42.6	43.6	48.2	49.9	50.6	50.6	49.2	46.0	41.7
59°	36.3	38.0	38.5	39.3	42.9	44.1	45.1	45.1	43.9	41.4	37.6
59.5°	33.2	34.7	34.7	35.4	38.3	39.5	40.2	40.2	39.3	37.1	33.7
60°	30.3	31.5	31.7	32.0	34.4	35.4	35.9	36.1	35.4	33.4	30.5
60.5°	27.6	28.8	28.8	28.8	31.0	31.7	32.2	32.7	32.0	30.5	27.9
61°	25.2	26.4	26.4	26.2	28.1	28.8	29.1	29.6	28.8	27.6	25.2
61.5°	23.3	24.2	24.2	24.0	25.4	26.2	26.4	26.9	26.2	25.2	23.3
62°	21.3	22.3	22.1	22.1	23.3	23.7	24.0	24.5	24.0	23.0	21.6
62.5°	19.9	20.6	20.4	20.1	21.6	22.1	22.1	22.3	21.8	21.3	20.1
63°	18.2	19.1	18.9	18.4	19.9	20.4	20.6	20.8	20.4	19.9	18.4
63.5°	16.7	17.7	17.2	17.0	18.2	18.7	18.9	19.1	18.9	18.2	17.0
64°	15.5	16.2	16.0	15.8	16.7	17.0	17.4	17.7	17.4	16.7	15.3
64.5°	14.3	15.0	14.8	14.5	15.0	15.3	16.0	16.2	16.0	15.0	14.1
65°	13.3	14.1	13.8	13.3	13.8	14.1	14.3	14.5	14.3	14.1	13.1
65.5°	12.4	12.8	12.8	12.4	12.8	13.1	13.3	13.6	13.3	13.1	12.1
66°	11.4	12.1	11.9	11.6	11.9	12.1	12.4	12.6	12.4	12.1	11.4



TEST NUMBER: P775980

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.2	9.7	9.5	9.2	9.5	9.7	9.9	9.9	9.9	9.7	9.0
68°	8.5	9.0	9.0	8.7	8.7	9.0	9.2	9.2	9.2	9.0	8.5
68.5°	8.0	8.5	8.5	8.2	8.2	8.2	8.5	8.7	8.5	8.5	7.8
69°	7.5	7.8	7.8	7.5	7.8	7.8	8.0	8.0	8.0	7.8	7.3
69.5°	6.8	7.3	7.3	7.0	7.3	7.3	7.5	7.5	7.5	7.3	6.8
70°	6.3	6.8	6.8	6.5	6.5	6.8	7.0	7.0	7.0	6.8	6.3
70.5°	5.8	6.3	6.3	6.1	6.3	6.3	6.5	6.5	6.5	6.3	5.8
71°	5.6	5.8	5.8	5.6	5.8	5.8	6.1	6.1	6.1	5.8	5.6
71.5°	5.1	5.3	5.3	5.3	5.3	5.3	5.6	5.6	5.6	5.3	5.1
72°	4.6	5.1	5.1	4.8	5.1	5.1	5.1	5.3	5.1	5.1	4.8
72.5°	4.4	4.6	4.6	4.6	4.6	4.8	4.8	4.8	4.8	4.6	4.4
73°	3.9	4.4	4.4	4.1	4.4	4.4	4.6	4.6	4.4	4.4	4.1
73.5°	3.6	3.9	3.9	3.9	4.1	4.1	4.1	4.1	4.1	3.9	3.9
74°	3.4	3.6	3.6	3.6	3.9	3.9	3.9	3.9	3.9	3.6	3.6
74.5°	3.2	3.4	3.4	3.4	3.4	3.6	3.6	3.6	3.6	3.4	3.2
75°	2.9	3.2	3.2	3.2	3.2	3.4	3.4	3.4	3.2	3.2	2.9
75.5°	2.7	2.9	2.9	2.9	2.9	3.2	3.2	3.2	2.9	2.9	2.7
76°	2.4	2.7	2.7	2.7	2.7	2.9	2.9	2.7	2.7	2.7	2.4
76.5°	2.2	2.4	2.4	2.4	2.7	2.7	2.7	2.7	2.4	2.4	2.4
77°	1.9	2.2	2.2	2.2	2.4	2.4	2.4	2.4	2.4	2.2	2.2
77.5°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.9	1.9
78°	1.7	1.7	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.9	1.7
78.5°	1.5	1.7	1.7	1.7	1.9	1.9	1.9	1.7	1.7	1.7	1.7
79°	1.2	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.5
79.5°	1.2	1.2	1.5	1.5	1.5	1.7	1.5	1.5	1.5	1.2	1.5
80°	1.0	1.2	1.2	1.2	1.5	1.5	1.5	1.2	1.2	1.2	1.2
80.5°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0
81°	0.7	1.0	1.0	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0
81.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	1.0
82°	0.5	0.7	0.7	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7
82.5°	0.5	0.5	0.7	0.7	0.7	1.0	0.7	0.7	0.7	0.5	0.7
83°	0.2	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
83.5°	0.2	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5
84°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5
84.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.5
85°	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
85.5°	0.0	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2
86°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
86.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
87°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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: P775980
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775980

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2315.8	2315.8	2315.8	2315.8	2315.8	2315.8
0.5°	2315.3	2315.1	2315.3	2314.9	2314.4	2313.2
1°	2314.9	2313.6	2313.2	2312.4	2312.0	2311.2
1.5°	2313.6	2311.7	2310.5	2309.8	2309.5	2308.6
2°	2312.0	2309.3	2307.8	2306.9	2306.4	2305.6
2.5°	2309.5	2306.4	2304.0	2302.5	2302.3	2302.0
3°	2307.1	2302.7	2300.1	2298.1	2297.7	2297.9
3.5°	2304.2	2298.9	2295.2	2293.3	2292.8	2293.0
4°	2300.6	2294.3	2290.1	2287.5	2287.2	2288.0
4.5°	2296.4	2289.4	2284.6	2281.9	2281.2	2282.4
5°	2291.8	2283.8	2278.5	2275.4	2274.4	2275.8
5.5°	2286.5	2277.8	2271.2	2268.3	2267.6	2269.1
6°	2280.9	2271.2	2264.2	2260.3	2259.9	2261.1
6.5°	2274.6	2263.7	2256.5	2252.6	2251.6	2253.3
7°	2267.6	2256.0	2247.7	2243.6	2242.2	2244.3
7.5°	2259.9	2247.5	2238.8	2234.2	2232.7	2234.9
8°	2251.9	2238.3	2229.3	2224.0	2222.5	2224.7
8.5°	2242.9	2228.1	2218.7	2213.3	2211.6	2213.8
9°	2233.4	2217.4	2207.5	2201.5	2199.5	2201.9
9.5°	2223.0	2206.3	2195.9	2188.6	2187.2	2189.8
10°	2212.4	2194.2	2182.8	2175.8	2173.3	2176.5
10.5°	2200.7	2181.1	2169.2	2161.7	2159.5	2162.0
11°	2188.4	2167.8	2154.9	2146.2	2143.3	2147.4
11.5°	2175.5	2153.7	2139.2	2129.7	2127.5	2130.9
12°	2162.4	2138.5	2122.9	2112.8	2110.1	2113.7
12.5°	2147.9	2122.7	2106.0	2095.1	2091.7	2096.0
13°	2133.4	2106.5	2088.5	2076.7	2073.0	2077.9
13.5°	2117.9	2090.0	2071.1	2057.8	2054.4	2058.7
14°	2102.1	2072.8	2052.2	2038.9	2034.7	2038.9
14.5°	2085.1	2055.1	2034.0	2020.0	2015.1	2019.2
15°	2069.1	2037.2	2014.1	1999.8	1994.5	1999.1
15.5°	2051.7	2018.7	1995.7	1980.2	1974.4	1978.8
16°	2034.5	2000.6	1976.1	1959.9	1954.3	1958.9
16.5°	2016.6	1982.4	1958.2	1940.2	1934.7	1938.3
17°	1999.1	1963.0	1938.5	1919.6	1914.5	1918.7
17.5°	1980.9	1945.1	1919.4	1900.5	1894.2	1898.3
18°	1962.5	1926.2	1899.8	1880.6	1874.6	1878.4
18.5°	1944.4	1907.5	1881.6	1861.5	1855.4	1858.3
19°	1926.7	1889.1	1863.2	1843.8	1837.0	1839.9
19.5°	1909.0	1871.9	1845.2	1825.9	1818.6	1821.3
20°	1891.8	1853.7	1827.1	1807.7	1800.4	1804.1
20.5°	1873.6	1835.6	1808.9	1789.8	1782.0	1785.6
21°	1856.9	1817.1	1789.3	1769.9	1763.6	1767.7

TEST NUMBER: P775980

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1801.6	1757.0	1724.3	1705.2	1698.9	1703.2
23°	1783.0	1734.0	1700.6	1679.7	1674.4	1679.7
23.5°	1764.1	1711.2	1675.4	1653.3	1648.5	1653.6
24°	1745.4	1686.5	1649.0	1625.5	1620.1	1625.7
24.5°	1722.9	1661.1	1622.1	1594.9	1590.3	1596.4
25°	1699.6	1634.4	1594.7	1563.4	1560.3	1567.6
25.5°	1674.2	1607.3	1566.3	1530.7	1527.3	1536.3
26°	1648.2	1579.9	1537.3	1497.8	1495.1	1506.0
26.5°	1619.2	1551.6	1506.7	1465.8	1460.9	1474.3
27°	1589.4	1522.7	1475.7	1434.3	1426.5	1443.2
27.5°	1556.9	1491.9	1443.7	1402.8	1392.4	1410.8
28°	1523.7	1460.4	1410.8	1372.2	1359.2	1378.8
28.5°	1488.3	1428.0	1377.1	1342.2	1325.5	1345.1
29°	1451.7	1393.8	1343.4	1311.9	1294.2	1311.7
29.5°	1414.6	1358.9	1309.2	1280.9	1261.0	1277.5
30°	1378.3	1322.8	1275.6	1249.6	1229.5	1242.6
30.5°	1340.7	1286.7	1241.4	1216.4	1198.3	1206.7
31°	1305.4	1249.9	1209.4	1183.0	1166.3	1171.8
31.5°	1270.7	1212.3	1176.0	1148.1	1133.8	1137.2
32°	1236.5	1175.2	1143.0	1112.2	1101.3	1102.8
32.5°	1203.1	1137.7	1109.8	1076.9	1068.1	1070.1
33°	1168.2	1099.9	1075.6	1042.4	1034.7	1037.4
33.5°	1134.3	1061.8	1040.3	1008.3	1001.3	1003.9
34°	1100.1	1026.0	1005.9	974.4	967.6	971.2
34.5°	1065.7	990.1	970.2	940.4	932.9	938.0
35°	1030.6	954.7	934.9	908.7	900.2	904.3
35.5°	995.4	921.5	898.8	877.7	867.7	873.3
36°	960.1	888.3	859.3	845.7	837.2	841.8
36.5°	924.9	855.9	825.8	813.9	806.7	809.8
37°	889.8	823.4	792.1	782.0	776.1	778.1
37.5°	855.4	791.2	758.7	750.2	745.9	746.3
38°	821.9	758.7	725.0	718.2	715.3	714.6
38.5°	789.2	726.5	691.8	686.2	685.5	684.8
39°	756.8	695.0	661.0	655.0	656.0	656.2
39.5°	725.3	663.7	629.8	623.7	625.2	627.8
40°	693.8	633.7	599.0	593.0	595.4	600.2
40.5°	663.0	603.6	569.4	562.9	566.5	572.6
41°	632.7	573.8	540.6	533.3	538.4	546.2
41.5°	602.9	544.7	512.0	505.0	510.8	520.5
42°	573.3	517.3	484.9	477.4	483.4	495.8
42.5°	545.0	489.5	458.7	450.2	457.7	470.8
43°	517.1	463.1	433.3	423.8	432.3	447.1
43.5°	489.7	437.1	408.5	397.6	407.8	424.1



TEST NUMBER: P775980

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	412.2	365.2	340.2	327.1	339.0	359.1
45.5°	388.0	342.6	319.6	305.8	317.7	339.2
46°	364.0	321.3	299.7	285.4	297.3	319.6
46.5°	340.5	301.0	280.4	266.3	278.2	301.0
47°	317.9	281.3	262.4	249.1	260.2	282.3
47.5°	295.6	261.9	245.2	233.1	243.0	265.6
48°	274.5	244.3	229.0	217.6	227.3	248.9
48.5°	255.2	227.5	213.5	203.3	212.3	232.9
49°	236.0	211.3	198.5	189.7	198.0	217.4
49.5°	219.5	196.0	184.4	177.6	185.4	202.8
50°	203.1	181.0	171.1	165.7	172.5	188.8
50.5°	186.6	167.0	158.2	154.1	160.9	175.4
51°	170.1	153.9	146.1	143.2	149.5	162.6
51.5°	156.3	141.3	134.7	133.0	138.6	150.2
52°	143.5	129.6	123.8	123.1	128.2	138.8
52.5°	130.9	118.0	113.6	113.4	118.5	127.7
53°	119.7	107.3	104.0	104.0	109.0	117.3
53.5°	109.0	97.7	95.0	95.5	100.1	107.3
54°	99.1	88.9	86.5	87.5	91.6	98.1
54.5°	90.4	81.7	79.5	80.4	84.8	90.1
55°	82.4	74.4	72.5	73.4	77.5	82.9
55.5°	74.4	66.9	65.2	66.4	70.3	75.8
56°	66.4	59.6	58.2	59.4	63.0	68.6
56.5°	59.4	52.3	51.1	52.3	55.7	61.3
57°	52.8	46.5	45.6	46.8	49.9	54.0
57.5°	47.0	41.7	41.0	42.2	45.1	48.7
58°	41.9	37.6	36.8	38.0	41.0	44.1
58.5°	37.8	33.7	33.4	34.4	37.1	40.0
59°	33.9	30.5	30.3	31.5	33.9	36.3
59.5°	30.8	27.6	27.4	28.6	30.8	33.2
60°	27.9	25.2	25.0	26.2	28.4	30.3
60.5°	25.4	23.0	22.8	24.0	25.9	27.6
61°	23.3	21.1	20.8	22.1	23.7	25.2
61.5°	21.6	19.4	19.1	20.4	22.1	23.3
62°	19.9	17.7	17.7	18.7	20.4	21.3
62.5°	18.4	16.2	16.2	17.2	18.7	19.9
63°	16.7	15.0	15.0	16.0	17.2	18.2
63.5°	15.3	13.8	14.1	14.8	16.0	16.7
64°	14.1	12.8	12.8	13.6	14.8	15.5
64.5°	13.1	11.9	11.9	12.6	13.6	14.3
65°	12.1	11.1	11.1	11.6	12.6	13.3
65.5°	11.1	10.2	10.4	10.9	11.9	12.4
66°	10.4	9.5	9.7	10.2	10.9	11.4



TEST NUMBER: P775980

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	8.2	7.8	7.8	8.2	8.7	9.2
68°	7.8	7.3	7.3	7.8	8.2	8.5
68.5°	7.3	6.8	6.8	7.0	7.5	8.0
69°	6.8	6.3	6.3	6.5	7.0	7.5
69.5°	6.3	5.8	5.8	6.1	6.5	6.8
70°	5.8	5.3	5.3	5.8	6.1	6.3
70.5°	5.6	5.1	5.1	5.3	5.6	5.8
71°	5.1	4.6	4.6	4.8	5.1	5.6
71.5°	4.8	4.4	4.4	4.6	4.8	5.1
72°	4.4	4.1	4.1	4.4	4.4	4.6
72.5°	4.1	3.6	3.6	3.9	4.1	4.4
73°	3.9	3.4	3.4	3.6	3.9	3.9
73.5°	3.6	3.2	3.2	3.4	3.4	3.6
74°	3.4	2.9	2.9	3.2	3.2	3.4
74.5°	3.2	2.7	2.7	2.9	2.9	3.2
75°	2.9	2.4	2.4	2.7	2.7	2.9
75.5°	2.7	2.4	2.4	2.4	2.4	2.7
76°	2.4	2.2	2.2	2.2	2.2	2.4
76.5°	2.2	1.9	1.9	1.9	1.9	2.2
77°	1.9	1.7	1.7	1.7	1.9	1.9
77.5°	1.9	1.7	1.7	1.7	1.7	1.7
78°	1.7	1.5	1.5	1.5	1.5	1.7
78.5°	1.5	1.5	1.5	1.5	1.5	1.5
79°	1.5	1.2	1.2	1.2	1.2	1.2
79.5°	1.2	1.2	1.2	1.2	1.0	1.2
80°	1.2	1.0	1.0	1.0	1.0	1.0
80.5°	1.0	1.0	1.0	1.0	0.7	1.0
81°	1.0	0.7	0.7	0.7	0.7	0.7
81.5°	0.7	0.7	0.7	0.7	0.7	0.7
82°	0.7	0.7	0.7	0.5	0.5	0.5
82.5°	0.7	0.5	0.5	0.5	0.5	0.5
83°	0.5	0.5	0.5	0.5	0.5	0.2
83.5°	0.5	0.5	0.5	0.5	0.2	0.2
84°	0.5	0.2	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	0.0	0.0
86°	0.2	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: P775980
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

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



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Cooper Lighting Solutions Photometric Lab
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Scaled Data Report





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

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Scaled Data Report





21.5°	1747.6	1760.2	1778.6	1802.4	1842.6	1870.4	1891.3	1900.3	1898.6	1886.9	1866.3
22°	1726.8	1741.3	1760.0	1784.7	1823.9	1853.0	1873.4	1883.0	1881.1	1869.0	1848.4



44°	401.5	414.6	424.1	440.5	476.9	509.6	538.9	552.0	539.6	520.3	497.2
44.5°	380.2	392.8	400.3	413.9	450.7	482.0	511.0	521.7	510.3	492.6	468.9



66.5°	10.7	11.1	11.1	10.7	10.9	11.1	11.4	11.6	11.4	11.1	10.4
67°	9.9	10.4	10.2	9.9	10.2	10.4	10.7	10.7	10.7	10.4	9.7



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°	1839.2	1798.0	1768.9	1748.8	1743.7	1747.6
22°	1820.3	1777.6	1747.1	1727.7	1721.9	1726.8



44°	463.3	412.4	385.0	373.7	384.3	401.5
44.5°	437.9	388.4	362.0	349.9	361.5	380.2

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66.5°	9.7	9.0	9.0	9.5	10.2	10.7
67°	9.0	8.2	8.5	9.0	9.5	9.9

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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)