

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P776076

Luminaire Tested: HCDJBL51525CSD-HCD6TRC-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776076
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-HCD6TRC-2500lm-3000K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

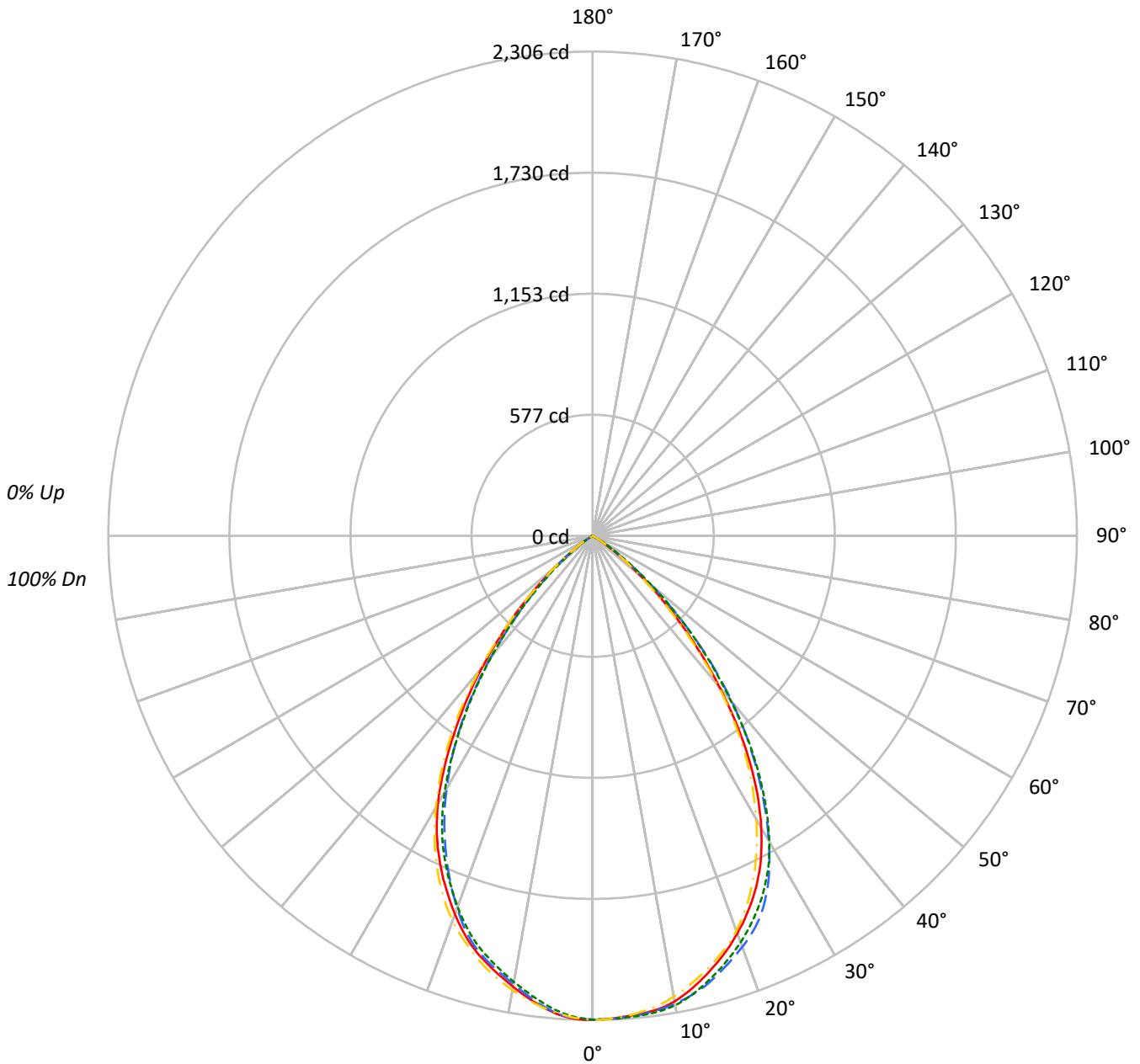
Lumens per Lamp: N/A
Luminaire Lumens: 2912.7 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70					70			
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59					59			
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54					54			
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50					50			
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	126339	126339	126339	126339
5°	126089	126452	125121	124185
10°	125315	126361	121413	120088
15°	121919	123786	117583	115931
20°	117552	120206	111841	109653
25°	111496	115168	104050	101286
30°	101630	106434	93230	89273
35°	86826	92247	76915	72090
40°	67111	73108	58467	53493
45°	46385	52494	38756	34143
50°	26259	31428	20127	16673
55°	9873	13199	8009	6279
60°	702	2281	329	384
65°	91	130	91	65
70°	32	32	32	32
75°	0	42	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 54292 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	7.4
10°-20°	593.9	20.4
20°-30°	816.0	28.0
30°-40°	758.6	26.0
40°-50°	428.4	14.7
50°-60°	98.8	3.4
60°-70°	1.2	0.0
70°-80°	0.1	0.0
80°-90°	0.0	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°	1625.5	55.8
0°-40°	2384.1	81.9
0°-60°	2911.3	100.0
0°-90°	2912.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2912.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2305	2305	2305	2305	2305	
5°	2291	2298	2274	2257	2291	218
15°	2148	2181	2072	2043	2148	604
25°	1843	1904	1720	1674	1843	842
35°	1297	1378	1149	1077	1297	800
45°	598	677	500	440	598	463
55°	103	138	84	66	103	107
65°	1	1	1	0	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	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°	2304.6	2304.6	2304.6	2304.6	2304.6	2304.6	2304.6	2304.6	2304.6	2304.6	2304.6
0.5°	2305.4	2304.1	2304.1	2305.1	2303.9	2305.1	2306.1	2306.6	2305.9	2304.1	2303.1
1°	2304.4	2304.1	2304.1	2305.1	2304.1	2305.4	2305.9	2306.1	2305.6	2304.1	2302.6
1.5°	2302.9	2302.9	2303.6	2305.1	2303.6	2305.4	2304.6	2305.1	2304.4	2302.9	2301.2
2°	2301.7	2302.1	2303.1	2305.1	2303.4	2305.1	2303.1	2303.1	2302.9	2301.7	2299.2
2.5°	2300.2	2301.4	2302.6	2304.4	2302.9	2303.9	2301.2	2300.7	2300.2	2299.2	2296.7
3°	2298.2	2300.2	2301.4	2303.4	2302.1	2302.6	2298.7	2297.5	2296.5	2296.2	2293.5
3.5°	2296.5	2298.9	2300.2	2302.6	2301.4	2301.2	2296.0	2293.5	2291.8	2291.8	2289.1
4°	2295.0	2297.7	2298.9	2301.4	2300.2	2299.7	2293.0	2288.8	2286.8	2286.3	2283.9
4.5°	2293.0	2296.0	2297.5	2300.2	2299.2	2298.2	2289.3	2283.6	2280.7	2280.2	2277.2
5°	2291.3	2294.5	2295.7	2298.4	2297.9	2296.5	2285.8	2277.9	2273.7	2273.2	2269.8
5.5°	2289.8	2292.5	2293.7	2296.7	2296.7	2294.7	2281.6	2271.5	2266.1	2265.1	2261.6
6°	2287.3	2290.3	2291.3	2295.0	2295.7	2292.8	2277.4	2265.1	2258.4	2256.9	2252.5
6.5°	2285.1	2287.6	2288.8	2292.8	2293.7	2291.0	2273.0	2257.9	2249.5	2247.5	2243.3
7°	2282.1	2284.9	2285.8	2290.5	2292.0	2288.6	2268.5	2250.7	2240.6	2238.4	2233.2
7.5°	2278.7	2281.4	2282.9	2287.8	2290.0	2286.3	2263.1	2243.3	2231.2	2228.5	2222.8
8°	2275.0	2277.4	2279.4	2285.1	2287.3	2283.6	2257.2	2234.9	2221.6	2218.4	2212.0
8.5°	2270.5	2273.0	2275.7	2281.4	2283.9	2279.9	2251.0	2226.8	2211.5	2207.8	2201.3
9°	2264.8	2268.0	2271.8	2278.2	2279.7	2276.0	2244.3	2218.4	2201.8	2197.9	2190.5
9.5°	2258.4	2262.1	2267.6	2274.0	2275.0	2271.0	2236.7	2210.2	2191.4	2187.5	2179.8
10°	2251.2	2256.2	2262.9	2269.5	2270.0	2265.1	2228.5	2201.3	2181.1	2176.6	2169.2
10.5°	2243.3	2249.3	2258.2	2264.3	2263.6	2258.4	2220.4	2191.9	2170.4	2166.0	2158.1
11°	2234.2	2241.6	2252.5	2258.9	2256.4	2250.7	2211.7	2182.5	2159.8	2155.1	2147.2
11.5°	2225.3	2233.2	2247.0	2253.2	2248.8	2242.1	2202.1	2173.6	2149.4	2144.2	2136.6
12°	2215.2	2224.8	2240.4	2247.0	2240.1	2232.7	2192.4	2164.0	2139.1	2133.1	2126.4
12.5°	2204.8	2215.7	2233.9	2240.1	2231.5	2222.6	2182.1	2153.9	2128.2	2121.3	2116.1
13°	2193.9	2206.3	2226.3	2233.2	2222.1	2212.4	2172.7	2143.5	2117.6	2109.6	2105.9
13.5°	2183.3	2196.1	2218.9	2226.0	2212.2	2201.8	2161.8	2132.9	2106.4	2097.0	2095.1
14°	2171.4	2186.0	2210.5	2218.4	2202.1	2190.5	2151.9	2121.8	2095.3	2084.2	2084.2
14.5°	2160.3	2176.1	2201.3	2210.2	2191.4	2178.8	2140.8	2109.6	2083.9	2070.6	2072.6
15°	2148.2	2165.2	2191.4	2202.1	2181.1	2167.0	2130.2	2097.5	2071.8	2057.3	2060.7
15.5°	2136.3	2154.4	2181.6	2192.7	2170.2	2155.4	2118.8	2085.2	2059.7	2042.9	2048.1
16°	2124.2	2143.5	2171.2	2183.3	2158.8	2143.7	2108.2	2071.3	2046.9	2028.3	2034.8
16.5°	2111.9	2132.4	2160.3	2173.2	2147.7	2131.9	2096.3	2057.5	2033.0	2013.8	2019.7
17°	2098.8	2121.0	2149.7	2163.3	2135.8	2119.8	2084.4	2043.9	2018.5	1997.9	2003.9
17.5°	2086.4	2109.6	2138.8	2152.4	2123.7	2107.7	2072.6	2029.1	2003.1	1981.1	1986.8
18°	2072.8	2098.3	2127.9	2142.0	2111.4	2095.1	2059.5	2014.5	1987.8	1965.3	1968.5
18.5°	2059.2	2086.9	2117.1	2131.1	2099.3	2082.7	2046.6	1998.7	1970.8	1948.3	1949.0
19°	2044.7	2075.0	2106.2	2120.0	2086.4	2070.4	2032.5	1983.4	1953.7	1931.2	1929.0
19.5°	2029.8	2062.7	2095.1	2108.4	2073.8	2057.0	2017.2	1967.6	1935.7	1912.9	1908.5
20°	2015.0	2050.1	2083.5	2095.8	2060.5	2043.7	2001.7	1950.7	1917.1	1895.4	1887.2
20.5°	1999.4	2036.7	2072.1	2083.2	2046.1	2028.8	1985.1	1933.2	1898.4	1876.9	1865.0
21°	1984.1	2022.9	2060.0	2070.1	2032.1	2013.8	1968.0	1916.2	1879.6	1857.8	1842.8



TEST NUMBER: P776076

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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°	1934.4	1977.4	2020.2	2026.6	1987.6	1965.3	1912.2	1862.0	1821.5	1800.5	1775.8
23°	1917.6	1960.6	2004.9	2010.1	1971.3	1947.5	1892.4	1843.0	1802.2	1781.2	1752.1
23.5°	1899.6	1943.3	1989.3	1993.5	1955.4	1930.0	1871.7	1824.2	1783.0	1759.7	1727.8
24°	1881.3	1925.3	1971.5	1975.5	1938.9	1911.2	1850.9	1805.4	1762.2	1738.2	1703.6
24.5°	1862.3	1907.0	1953.0	1956.2	1921.6	1892.2	1830.2	1786.7	1741.2	1716.5	1679.2
25°	1843.3	1887.7	1933.5	1936.9	1904.0	1872.9	1809.1	1766.2	1720.2	1694.0	1654.9
25.5°	1823.2	1867.0	1912.7	1916.4	1885.8	1852.4	1788.4	1745.1	1698.2	1671.3	1630.2
26°	1802.0	1846.0	1890.5	1894.9	1865.5	1831.9	1763.2	1723.2	1676.0	1648.8	1605.5
26.5°	1780.5	1824.7	1867.7	1872.7	1845.2	1811.4	1739.2	1700.4	1653.2	1624.8	1580.8
27°	1758.2	1802.0	1843.5	1849.4	1825.0	1791.1	1715.7	1677.7	1629.5	1600.8	1555.6
27.5°	1735.0	1777.5	1818.5	1825.7	1804.7	1769.6	1690.3	1653.7	1605.8	1575.9	1529.2
28°	1710.1	1752.8	1791.4	1800.5	1784.2	1745.4	1665.6	1628.8	1581.6	1549.7	1502.7
28.5°	1685.8	1726.9	1764.4	1774.8	1760.0	1722.4	1639.4	1602.8	1555.6	1522.2	1474.8
29°	1659.6	1699.9	1735.8	1747.6	1734.8	1696.7	1613.2	1576.6	1528.9	1494.6	1447.6
29.5°	1632.7	1673.7	1707.3	1720.2	1708.3	1671.8	1585.8	1549.2	1500.7	1466.4	1418.5
30°	1605.5	1644.6	1677.4	1692.0	1681.4	1645.6	1558.8	1521.5	1472.8	1437.5	1389.3
30.5°	1577.8	1616.9	1648.0	1664.1	1653.7	1619.1	1530.6	1492.6	1443.2	1407.8	1359.9
31°	1548.9	1588.0	1617.1	1633.7	1625.8	1591.2	1502.0	1462.9	1413.0	1377.7	1331.0
31.5°	1518.8	1558.3	1586.2	1604.0	1596.6	1563.8	1473.1	1433.3	1382.1	1347.0	1301.3
32°	1489.6	1527.7	1554.9	1572.7	1567.0	1535.1	1444.4	1403.1	1350.0	1316.1	1271.9
32.5°	1459.5	1497.0	1523.7	1541.5	1537.1	1506.7	1414.5	1372.0	1317.4	1283.5	1241.8
33°	1428.8	1466.2	1491.1	1509.9	1506.4	1475.8	1384.8	1340.4	1284.5	1250.7	1212.1
33.5°	1396.7	1434.8	1460.7	1478.5	1475.8	1445.6	1354.7	1308.5	1251.2	1218.0	1182.5
34°	1365.3	1402.1	1428.3	1446.1	1443.2	1414.5	1324.8	1275.9	1217.3	1184.2	1152.1
34.5°	1331.7	1369.8	1396.7	1414.5	1411.0	1382.9	1293.9	1243.7	1182.7	1151.3	1120.9
35°	1297.4	1335.7	1364.6	1382.1	1378.4	1349.8	1263.5	1210.6	1149.3	1118.0	1089.0
35.5°	1262.8	1302.1	1332.7	1350.0	1345.3	1317.4	1232.6	1177.8	1116.0	1084.1	1057.2
36°	1228.4	1268.2	1300.8	1317.9	1311.7	1283.5	1200.5	1144.4	1083.1	1051.2	1024.6
36.5°	1192.6	1233.6	1267.7	1285.3	1276.4	1249.7	1167.1	1111.3	1050.0	1017.6	991.2
37°	1156.5	1200.0	1236.1	1252.1	1241.0	1215.8	1134.3	1078.4	1017.1	984.5	956.8
37.5°	1119.4	1164.4	1204.0	1218.5	1205.2	1181.0	1100.2	1045.3	984.5	951.4	923.2
38°	1082.6	1129.3	1170.6	1184.9	1169.1	1145.1	1066.3	1011.5	952.1	917.3	888.9
38.5°	1045.6	1094.0	1136.7	1150.1	1132.3	1109.3	1031.7	978.1	919.5	884.2	855.3
39°	1008.2	1058.7	1102.6	1116.5	1095.7	1073.5	996.1	944.5	885.4	850.6	820.9
39.5°	973.2	1023.3	1068.8	1081.6	1058.4	1036.9	961.3	910.9	851.3	817.2	785.6
40°	937.8	986.5	1033.7	1047.5	1021.6	999.6	926.0	876.8	817.0	783.1	752.0
40.5°	903.2	950.4	999.1	1012.2	986.0	963.3	890.1	843.2	782.6	750.0	717.1
41°	868.9	914.6	963.8	976.9	949.9	926.7	853.3	809.6	748.8	717.1	683.0
41.5°	834.5	874.6	928.9	941.0	915.1	890.4	816.7	775.7	714.9	684.0	649.2
42°	800.4	842.4	894.8	905.7	880.0	854.8	780.4	741.6	683.0	651.9	616.3
42.5°	766.1	810.3	859.7	870.3	846.9	819.2	745.3	708.2	652.6	620.0	585.7
43°	731.7	778.2	824.6	835.5	813.0	784.8	709.5	672.7	621.7	588.4	554.3
43.5°	697.6	746.0	789.5	813.5	778.4	750.2	674.4	639.0	591.6	557.7	525.1



TEST NUMBER: P776076

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	598.3	646.5	685.0	700.3	677.1	647.4	575.8	540.7	499.9	470.0	440.1
45.5°	566.1	613.3	649.9	662.8	643.0	614.3	543.9	508.1	470.5	440.9	414.2
46°	535.8	580.7	614.8	629.4	610.4	581.5	512.0	476.9	441.4	413.4	388.2
46.5°	504.6	548.6	581.0	596.5	579.5	549.6	481.6	446.5	412.7	387.0	363.8
47°	473.7	517.7	547.6	563.4	547.4	518.5	451.0	416.1	384.5	361.0	339.8
47.5°	443.3	486.3	515.2	530.8	516.5	488.8	421.8	388.2	358.8	335.8	317.8
48°	414.9	455.7	483.1	498.7	486.6	459.4	393.7	359.3	331.9	311.6	295.6
48.5°	386.2	425.3	451.5	467.3	456.4	431.0	366.5	332.9	305.9	288.6	275.0
49°	359.6	396.6	421.3	436.9	426.0	403.5	339.8	306.9	280.5	266.6	254.8
49.5°	332.9	367.7	391.4	406.3	396.4	376.9	315.3	283.2	257.0	245.6	237.2
50°	307.9	339.3	363.5	377.6	368.5	350.7	290.6	260.0	236.0	227.1	219.7
50.5°	282.5	311.9	336.1	349.2	340.5	325.0	268.1	240.7	215.2	208.6	202.1
51°	259.2	285.2	309.1	321.7	314.3	300.5	246.6	221.7	194.5	190.3	184.6
51.5°	236.2	259.2	283.4	295.1	288.6	276.5	227.6	202.4	173.7	171.7	167.1
52°	213.8	235.3	258.7	269.4	263.9	253.5	208.6	183.1	156.9	155.2	151.5
52.5°	192.0	212.5	235.0	245.9	242.2	232.5	189.5	163.8	141.8	140.1	136.9
53°	172.0	191.3	212.5	222.4	220.7	211.5	170.5	148.0	128.5	126.0	122.8
53.5°	152.7	170.8	190.3	199.7	198.9	190.8	154.2	133.9	116.6	112.9	109.5
54°	134.4	152.2	170.3	178.7	177.4	169.8	138.4	120.3	104.8	100.3	96.1
54.5°	118.1	134.2	150.5	159.4	155.9	152.0	124.1	107.7	94.2	89.0	84.0
55°	103.3	117.9	132.7	141.1	138.1	135.2	109.7	95.9	83.8	77.8	72.2
55.5°	89.5	102.8	115.9	123.8	121.3	118.9	96.4	84.5	73.6	67.0	61.3
56°	78.3	88.2	99.8	107.5	106.0	104.3	84.0	73.6	64.0	57.1	50.9
56.5°	67.5	77.1	85.0	93.2	91.7	90.4	71.9	63.5	54.6	47.7	41.8
57°	56.3	66.0	73.9	81.8	78.3	77.6	60.8	53.6	45.7	39.3	34.3
57.5°	45.5	54.9	62.8	70.4	66.2	65.5	50.4	44.5	37.8	31.1	26.7
58°	34.3	43.7	51.6	59.3	54.9	54.4	41.5	36.6	29.7	23.0	19.0
58.5°	24.5	32.6	40.5	47.9	45.2	44.7	33.9	28.7	21.7	14.6	11.6
59°	15.1	23.0	30.6	36.8	37.1	36.6	26.2	20.8	13.8	6.4	4.0
59.5°	8.2	14.1	20.8	26.7	28.9	28.7	18.8	12.9	5.9	3.5	2.7
60°	6.4	7.4	12.4	17.1	20.8	20.5	11.1	4.9	3.0	2.5	2.2
60.5°	4.9	5.9	6.4	9.6	12.6	12.6	3.5	2.7	2.2	2.0	2.0
61°	3.2	4.7	5.2	7.7	4.7	4.4	2.2	2.0	2.0	1.7	1.7
61.5°	1.7	3.2	4.0	5.7	2.7	2.5	1.7	1.7	1.7	1.5	1.5
62°	1.5	2.0	3.0	4.0	2.0	2.0	1.5	1.5	1.5	1.5	1.2
62.5°	1.2	1.7	2.0	2.0	1.7	1.7	1.2	1.2	1.2	1.2	1.2
63°	1.2	1.5	1.7	1.7	1.5	1.5	1.2	1.2	1.0	1.0	1.0
63.5°	1.0	1.2	1.5	1.5	1.2	1.2	1.0	1.0	1.0	1.0	1.0
64°	0.7	1.0	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	0.7
64.5°	0.7	1.0	1.0	1.2	1.0	1.0	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7
65.5°	0.5	0.7	0.7	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.5
66°	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776076
 CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
69°	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2
75.5°	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	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	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: P776076
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-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: P776076

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2304.6	2304.6	2304.6	2304.6	2304.6	2304.6
0.5°	2303.1	2301.9	2302.6	2304.6	2305.4	2305.4
1°	2301.7	2300.2	2300.2	2303.1	2304.1	2304.4
1.5°	2299.7	2297.5	2297.2	2301.2	2302.1	2302.9
2°	2296.7	2294.0	2293.3	2298.2	2300.2	2301.7
2.5°	2293.3	2289.8	2288.8	2294.7	2297.7	2300.2
3°	2288.6	2284.9	2283.6	2290.8	2295.0	2298.2
3.5°	2283.4	2278.9	2277.9	2286.1	2292.0	2296.5
4°	2277.2	2272.2	2271.5	2281.6	2289.1	2295.0
4.5°	2270.0	2264.8	2264.6	2276.4	2285.8	2293.0
5°	2262.1	2256.7	2256.7	2271.0	2282.4	2291.3
5.5°	2253.0	2248.3	2248.8	2265.1	2278.9	2289.8
6°	2244.3	2239.1	2240.4	2258.9	2275.0	2287.3
6.5°	2234.4	2229.5	2231.7	2252.5	2270.3	2285.1
7°	2224.8	2219.6	2222.6	2245.8	2266.1	2282.1
7.5°	2214.7	2210.0	2213.4	2238.1	2260.6	2278.7
8°	2203.8	2199.3	2204.0	2231.0	2255.7	2275.0
8.5°	2193.2	2189.2	2194.4	2223.1	2249.0	2270.5
9°	2182.8	2178.6	2184.3	2214.9	2242.3	2264.8
9.5°	2172.2	2168.0	2173.9	2206.3	2234.9	2258.4
10°	2161.3	2157.3	2164.3	2197.9	2227.0	2251.2
10.5°	2150.2	2146.7	2154.4	2188.5	2218.6	2243.3
11°	2139.8	2136.1	2144.2	2179.6	2209.5	2234.2
11.5°	2128.2	2125.2	2133.6	2170.2	2200.1	2225.3
12°	2117.3	2113.8	2123.0	2160.1	2190.5	2215.2
12.5°	2105.7	2103.0	2112.4	2149.7	2180.3	2204.8
13°	2094.1	2091.4	2101.5	2139.1	2170.7	2193.9
13.5°	2081.2	2079.7	2089.9	2127.9	2160.3	2183.3
14°	2068.9	2067.4	2078.3	2116.6	2149.9	2171.4
14.5°	2055.8	2055.5	2066.2	2104.2	2139.8	2160.3
15°	2042.7	2042.7	2053.5	2092.1	2129.2	2148.2
15.5°	2028.6	2029.3	2040.9	2079.0	2117.8	2136.3
16°	2014.3	2015.5	2027.4	2066.6	2106.7	2124.2
16.5°	1999.2	2001.2	2013.0	2053.5	2095.1	2111.9
17°	1983.9	1985.8	1998.2	2040.0	2083.2	2098.8
17.5°	1966.8	1969.5	1982.4	2026.1	2070.6	2086.4
18°	1950.5	1952.7	1966.1	2012.0	2057.0	2072.8
18.5°	1932.5	1935.2	1949.0	1997.7	2042.4	2059.2
19°	1914.2	1917.4	1931.5	1982.4	2027.1	2044.7
19.5°	1895.4	1898.6	1913.7	1966.8	2011.3	2029.8
20°	1876.1	1879.6	1895.4	1950.7	1994.5	2015.0
20.5°	1855.9	1860.3	1876.4	1933.5	1977.4	1999.4
21°	1835.1	1840.8	1857.1	1916.4	1959.2	1984.1

TEST NUMBER: P776076

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1773.6	1780.2	1798.5	1858.3	1900.1	1934.4
23°	1751.8	1760.2	1779.0	1838.1	1878.6	1917.6
23.5°	1728.6	1739.5	1758.2	1817.3	1856.8	1899.6
24°	1705.6	1718.5	1737.7	1795.3	1835.6	1881.3
24.5°	1682.1	1696.2	1715.7	1774.1	1813.4	1862.3
25°	1658.9	1674.5	1694.5	1751.1	1790.4	1843.3
25.5°	1634.4	1652.0	1671.5	1728.1	1766.9	1823.2
26°	1609.5	1628.5	1649.3	1704.4	1743.4	1802.0
26.5°	1584.0	1604.3	1625.5	1680.9	1719.4	1780.5
27°	1558.1	1579.3	1600.6	1655.9	1695.2	1758.2
27.5°	1531.1	1553.4	1574.6	1630.2	1670.8	1735.0
28°	1504.0	1526.7	1547.9	1603.3	1644.3	1710.1
28.5°	1475.8	1498.5	1520.8	1576.6	1618.6	1685.8
29°	1447.4	1470.4	1492.3	1548.7	1591.7	1659.6
29.5°	1418.0	1440.4	1462.4	1521.8	1564.8	1632.7
30°	1388.3	1410.3	1432.8	1492.3	1536.3	1605.5
30.5°	1358.7	1378.7	1402.1	1463.9	1508.7	1577.8
31°	1328.3	1347.3	1370.5	1434.0	1480.0	1548.9
31.5°	1297.4	1314.4	1336.9	1404.4	1451.1	1518.8
32°	1266.5	1281.1	1304.0	1375.5	1420.9	1489.6
32.5°	1235.6	1247.0	1271.2	1344.6	1391.5	1459.5
33°	1203.2	1213.8	1237.6	1314.4	1360.6	1428.8
33.5°	1171.6	1179.7	1203.5	1282.8	1331.0	1396.7
34°	1138.5	1146.1	1170.4	1251.4	1300.3	1365.3
34.5°	1106.6	1110.8	1136.2	1219.5	1269.0	1331.7
35°	1074.5	1077.2	1102.9	1186.4	1236.1	1297.4
35.5°	1041.6	1043.6	1070.0	1154.0	1204.0	1262.8
36°	1009.0	1010.7	1036.4	1120.9	1170.4	1228.4
36.5°	974.9	978.6	1004.0	1087.8	1136.7	1192.6
37°	941.0	945.2	971.2	1053.0	1101.7	1156.5
37.5°	907.2	912.6	938.1	1018.4	1066.6	1119.4
38°	873.1	876.8	904.7	983.8	1031.2	1082.6
38.5°	839.2	844.4	871.1	947.9	995.4	1045.6
39°	804.6	812.0	837.2	913.8	959.1	1008.2
39.5°	771.0	779.7	803.4	875.5	922.7	973.2
40°	737.9	747.5	769.5	841.9	884.2	937.8
40.5°	705.0	714.4	735.7	808.1	848.1	903.2
41°	672.7	681.6	701.8	774.5	812.0	868.9
41.5°	640.3	650.2	668.2	740.6	776.2	834.5
42°	607.9	619.0	636.1	706.0	740.1	800.4
42.5°	576.8	588.4	604.7	671.9	704.3	766.1
43°	545.4	557.7	572.8	637.6	670.2	731.7
43.5°	515.0	528.6	541.7	603.2	636.1	697.6



TEST NUMBER: P776076

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	429.0	440.4	449.8	502.4	539.0	598.3
45.5°	402.6	412.2	419.6	471.0	508.6	566.1
46°	376.1	384.0	390.7	440.6	479.2	535.8
46.5°	351.9	357.8	362.5	411.0	450.7	504.6
47°	327.9	331.6	335.6	383.3	422.6	473.7
47.5°	305.4	305.9	309.1	356.3	394.2	443.3
48°	283.2	281.2	283.7	329.7	367.7	414.9
48.5°	261.9	258.7	260.0	305.2	341.5	386.2
49°	242.2	236.2	237.2	281.5	316.6	359.6
49.5°	224.4	216.0	216.5	260.0	291.8	332.9
50°	206.8	195.5	196.0	238.7	268.9	307.9
50.5°	189.0	177.7	177.7	218.0	245.6	282.5
51°	171.3	160.4	160.6	198.4	224.4	259.2
51.5°	155.4	145.6	145.3	181.4	203.9	236.2
52°	140.4	131.5	131.7	164.3	185.1	213.8
52.5°	126.3	118.9	118.9	148.3	166.8	192.0
53°	112.7	106.5	106.8	132.9	149.8	172.0
53.5°	99.8	95.6	95.6	119.1	133.4	152.7
54°	87.7	85.3	84.8	105.8	118.6	134.4
54.5°	76.6	75.6	75.1	93.2	103.8	118.1
55°	65.5	65.7	65.2	82.3	90.7	103.3
55.5°	55.4	56.1	55.6	71.7	79.6	89.5
56°	45.7	46.5	45.7	61.0	68.7	78.3
56.5°	37.6	37.8	37.1	50.4	57.6	67.5
57°	29.7	28.4	27.7	39.8	46.7	56.3
57.5°	21.5	19.3	18.3	30.4	35.8	45.5
58°	13.6	11.4	10.4	20.3	25.7	34.3
58.5°	5.4	9.1	8.2	12.1	16.6	24.5
59°	3.0	7.2	5.9	6.2	9.4	15.1
59.5°	2.2	5.4	4.0	4.9	7.4	8.2
60°	2.0	3.5	1.7	3.7	5.4	6.4
60.5°	1.7	1.5	1.5	2.7	3.5	4.9
61°	1.5	1.2	1.2	1.5	1.7	3.2
61.5°	1.2	1.2	1.0	1.2	1.5	1.7
62°	1.0	1.0	1.0	1.2	1.2	1.5
62.5°	1.0	1.0	0.7	1.0	1.0	1.2
63°	1.0	0.7	0.7	1.0	1.0	1.2
63.5°	0.7	0.7	0.7	0.7	0.7	1.0
64°	0.7	0.7	0.7	0.7	0.7	0.7
64.5°	0.7	0.5	0.5	0.7	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5	0.7
65.5°	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776076
 CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.2	0.2	0.2	0.2	0.5
68°	0.2	0.2	0.2	0.2	0.2	0.5
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.0	0.2	0.2	0.2
73.5°	0.2	0.0	0.0	0.0	0.0	0.2
74°	0.2	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
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: P776076

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-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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Scaled Data Report



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Scaled Data Report





21.5°	1967.8	2008.3	2047.4	2056.5	2017.5	1998.2	1950.5	1898.4	1860.3	1838.6	1820.3
22°	1951.2	1993.3	2034.0	2041.7	2002.6	1982.1	1932.0	1880.8	1840.8	1819.5	1798.0



44°	663.3	712.9	754.5	775.7	743.8	715.7	641.5	606.2	560.7	528.3	496.2
44.5°	630.2	679.1	719.4	737.9	711.5	681.8	609.4	573.3	531.1	498.7	468.3



66.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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°	1814.6	1820.8	1838.1	1897.9	1940.1	1967.8
22°	1794.1	1800.5	1818.5	1877.8	1920.6	1951.2



44°	484.8	498.2	510.3	568.9	603.0	663.3
44.5°	456.7	469.3	480.1	534.8	570.6	630.2



66.5°	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.2	0.5	0.5	0.5

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)