

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: P776079

Luminaire Tested: HCDJBL1525CSD-HCD6TRC-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776079
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-5000K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

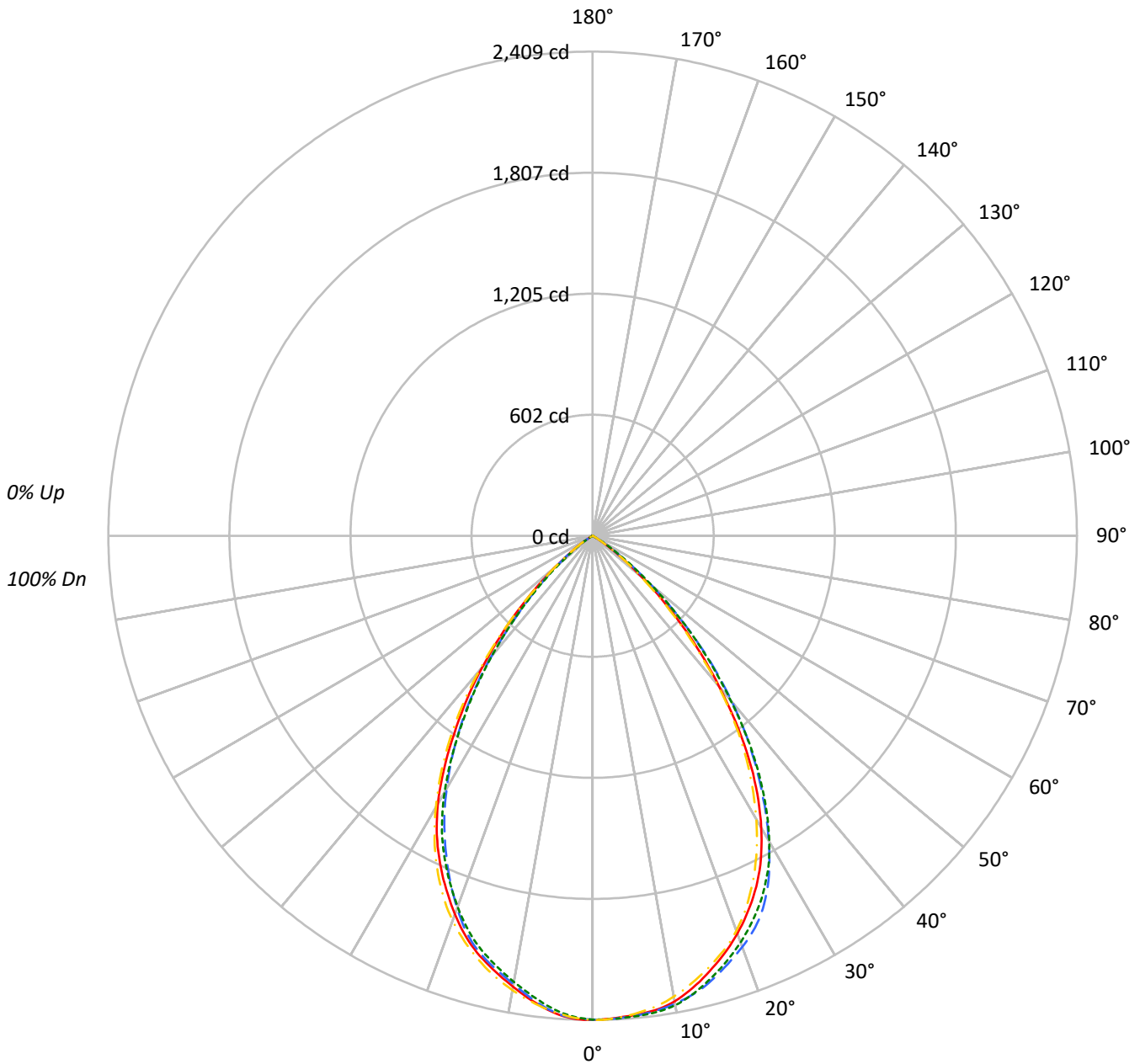
Lumens per Lamp: N/A
Luminaire Lumens: 3043.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (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



TEST NUMBER: P776079
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92		
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84		
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77		
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70		
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64		
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59		
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54		
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50		
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46		
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	131991	131991	131991	131991
5°	131724	132109	130717	129738
10°	130921	132012	126840	125460
15°	127373	129320	122844	121113
20°	122808	125579	116846	114553
25°	116481	120321	108702	105811
30°	106175	111194	97401	93268
35°	90708	96376	80355	75315
40°	70110	76379	61079	55890
45°	48455	54843	40493	35670
50°	27436	32826	21031	17415
55°	10313	13792	8363	6566
60°	735	2379	340	395
65°	104	130	104	65
70°	48	48	48	48
75°	0	64	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 56719 cd/sqm



TEST NUMBER: P776079

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	7.4
10°-20°	620.4	20.4
20°-30°	852.5	28.0
30°-40°	792.6	26.0
40°-50°	447.5	14.7
50°-60°	103.3	3.4
60°-70°	1.3	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°	1698.2	55.8
0°-40°	2490.7	81.9
0°-60°	3041.5	100.0
0°-90°	3043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2408	2408	2408	2408	2408	
5°	2394	2401	2375	2358	2394	227
15°	2244	2279	2164	2134	2244	631
25°	1926	1989	1797	1749	1926	880
35°	1355	1440	1201	1125	1355	836
45°	625	707	522	460	625	483
55°	108	144	88	69	108	111
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	



TEST NUMBER: P776079

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7
0.5°	2408.4	2407.2	2407.2	2408.2	2406.9	2408.2	2409.2	2409.7	2409.0	2407.2	2406.1
1°	2407.4	2407.2	2407.2	2408.2	2407.2	2408.4	2409.0	2409.2	2408.7	2407.2	2405.6
1.5°	2405.9	2405.9	2406.6	2408.2	2406.6	2408.4	2407.7	2408.2	2407.4	2405.9	2404.1
2°	2404.6	2405.1	2406.1	2408.2	2406.4	2408.2	2406.1	2406.1	2405.9	2404.6	2402.0
2.5°	2403.0	2404.3	2405.6	2407.4	2405.9	2406.9	2404.1	2403.5	2403.0	2402.0	2399.4
3°	2401.0	2403.0	2404.3	2406.4	2405.1	2405.6	2401.5	2400.2	2399.2	2398.9	2396.1
3.5°	2399.2	2401.7	2403.0	2405.6	2404.3	2404.1	2398.6	2396.1	2394.2	2394.2	2391.4
4°	2397.6	2400.4	2401.7	2404.3	2403.0	2402.5	2395.5	2391.2	2389.1	2388.6	2386.0
4.5°	2395.5	2398.6	2400.2	2403.0	2402.0	2401.0	2391.7	2385.7	2382.6	2382.1	2379.0
5°	2393.7	2397.1	2398.4	2401.2	2400.7	2399.2	2388.1	2379.8	2375.4	2374.9	2371.3
5.5°	2392.2	2395.0	2396.3	2399.4	2399.4	2397.3	2383.7	2373.1	2367.4	2366.4	2362.8
6°	2389.6	2392.7	2393.7	2397.6	2398.4	2395.3	2379.3	2366.4	2359.4	2357.8	2353.2
6.5°	2387.3	2389.9	2391.2	2395.3	2396.3	2393.5	2374.6	2358.9	2350.1	2348.0	2343.6
7°	2384.2	2387.0	2388.1	2393.0	2394.5	2390.9	2370.0	2351.4	2340.8	2338.5	2333.1
7.5°	2380.6	2383.4	2385.0	2390.1	2392.4	2388.6	2364.3	2343.6	2331.0	2328.2	2322.2
8°	2376.7	2379.3	2381.3	2387.3	2389.6	2385.7	2358.1	2334.9	2320.9	2317.6	2310.9
8.5°	2372.0	2374.6	2377.5	2383.4	2386.0	2381.9	2351.7	2326.4	2310.3	2306.5	2299.8
9°	2366.1	2369.5	2373.3	2380.0	2381.6	2377.7	2344.7	2317.6	2300.3	2296.1	2288.4
9.5°	2359.4	2363.3	2368.9	2375.7	2376.7	2372.6	2336.7	2309.1	2289.4	2285.3	2277.3
10°	2351.9	2357.1	2364.0	2371.0	2371.5	2366.4	2328.2	2299.8	2278.6	2273.9	2266.2
10.5°	2343.6	2349.8	2359.1	2365.6	2364.8	2359.4	2319.6	2289.9	2267.5	2262.8	2254.6
11°	2334.1	2341.8	2353.2	2359.9	2357.3	2351.4	2310.6	2280.1	2256.4	2251.5	2243.2
11.5°	2324.8	2333.1	2347.5	2354.0	2349.3	2342.4	2300.5	2270.8	2245.5	2240.1	2232.1
12°	2314.2	2324.3	2340.5	2347.5	2340.3	2332.5	2290.5	2260.8	2234.7	2228.5	2221.5
12.5°	2303.4	2314.7	2333.8	2340.3	2331.3	2322.0	2279.6	2250.2	2223.3	2216.1	2210.7
13°	2292.0	2304.9	2325.8	2333.1	2321.4	2311.4	2269.8	2239.3	2212.2	2204.0	2200.1
13.5°	2280.9	2294.3	2318.1	2325.6	2311.1	2300.3	2258.5	2228.2	2200.6	2190.8	2188.7
14°	2268.5	2283.8	2309.3	2317.6	2300.5	2288.4	2248.1	2216.6	2189.0	2177.4	2177.4
14.5°	2256.9	2273.4	2299.8	2309.1	2289.4	2276.3	2236.5	2204.0	2177.1	2163.2	2165.3
15°	2244.3	2262.1	2289.4	2300.5	2278.6	2263.9	2225.4	2191.3	2164.5	2149.2	2152.9
15.5°	2231.9	2250.7	2279.1	2290.7	2267.2	2251.7	2213.5	2178.4	2151.8	2134.3	2139.7
16°	2219.2	2239.3	2268.3	2280.9	2255.4	2239.6	2202.4	2164.0	2138.4	2119.0	2125.8
16.5°	2206.3	2227.7	2256.9	2270.3	2243.7	2227.2	2190.0	2149.5	2123.9	2103.8	2110.0
17°	2192.6	2215.9	2245.8	2260.0	2231.3	2214.6	2177.6	2135.3	2108.7	2087.3	2093.5
17.5°	2179.7	2204.0	2234.4	2248.6	2218.7	2201.9	2165.3	2119.8	2092.7	2069.7	2075.7
18°	2165.5	2192.1	2223.1	2237.8	2205.8	2188.7	2151.6	2104.6	2076.7	2053.2	2056.6
18.5°	2151.3	2180.2	2211.7	2226.4	2193.1	2175.8	2138.1	2088.1	2058.9	2035.4	2036.2
19°	2136.1	2167.8	2200.4	2214.8	2179.7	2162.9	2123.4	2072.1	2041.1	2017.6	2015.3
19.5°	2120.6	2154.9	2188.7	2202.7	2166.5	2149.0	2107.4	2055.5	2022.2	1998.5	1993.8
20°	2105.1	2141.8	2176.6	2189.5	2152.6	2135.0	2091.2	2038.0	2002.9	1980.1	1971.6
20.5°	2088.8	2127.8	2164.7	2176.4	2137.6	2119.6	2073.9	2019.6	1983.2	1960.8	1948.4
21°	2072.8	2113.4	2152.1	2162.7	2122.9	2103.8	2056.0	2001.8	1963.6	1940.9	1925.2



TEST NUMBER: P776079

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2020.9	2065.9	2110.5	2117.2	2076.4	2053.2	1997.7	1945.3	1903.0	1881.0	1855.2
23°	2003.4	2048.3	2094.5	2099.9	2059.4	2034.6	1977.0	1925.4	1882.8	1860.9	1830.4
23.5°	1984.5	2030.2	2078.3	2082.6	2042.9	2016.3	1955.4	1905.8	1862.7	1838.4	1805.1
24°	1965.4	2011.4	2059.7	2063.8	2025.6	1996.7	1933.7	1886.2	1841.0	1816.0	1779.8
24.5°	1945.6	1992.3	2040.3	2043.7	2007.5	1976.8	1912.0	1866.6	1819.1	1793.2	1754.3
25°	1925.7	1972.1	2019.9	2023.5	1989.2	1956.7	1890.0	1845.1	1797.1	1769.7	1729.0
25.5°	1904.8	1950.5	1998.2	2002.1	1970.1	1935.2	1868.4	1823.2	1774.1	1746.0	1703.1
26°	1882.6	1928.5	1975.0	1979.6	1948.9	1913.8	1842.0	1800.2	1750.9	1722.5	1677.3
26.5°	1860.1	1906.3	1951.2	1956.4	1927.7	1892.4	1817.0	1776.5	1727.1	1697.5	1651.5
27°	1836.9	1882.6	1925.9	1932.1	1906.6	1871.2	1792.5	1752.7	1702.4	1672.4	1625.2
27.5°	1812.6	1857.0	1899.9	1907.3	1885.4	1848.7	1765.9	1727.7	1677.6	1646.3	1597.5
28°	1786.5	1831.2	1871.5	1881.0	1864.0	1823.4	1740.1	1701.6	1652.3	1619.0	1569.9
28.5°	1761.2	1804.1	1843.3	1854.2	1838.7	1799.4	1712.7	1674.5	1625.2	1590.3	1540.7
29°	1733.9	1775.9	1813.4	1825.8	1812.3	1772.6	1685.3	1647.1	1597.3	1561.4	1512.3
29.5°	1705.7	1748.6	1783.7	1797.1	1784.7	1746.5	1656.7	1618.5	1567.9	1532.0	1481.9
30°	1677.3	1718.1	1752.4	1767.7	1756.6	1719.1	1628.5	1589.5	1538.7	1501.8	1451.4
30.5°	1648.4	1689.2	1721.7	1738.5	1727.7	1691.5	1599.1	1559.3	1507.7	1470.8	1420.7
31°	1618.2	1659.0	1689.5	1706.7	1698.5	1662.3	1569.1	1528.4	1476.2	1439.3	1390.5
31.5°	1586.7	1628.0	1657.2	1675.8	1668.0	1633.7	1538.9	1497.4	1443.9	1407.3	1359.5
32°	1556.2	1596.0	1624.4	1643.0	1637.0	1603.7	1509.0	1465.9	1410.4	1375.0	1328.8
32.5°	1524.7	1564.0	1591.9	1610.5	1605.8	1574.0	1477.8	1433.3	1376.3	1340.9	1297.3
33°	1492.7	1531.7	1557.8	1577.4	1573.8	1541.8	1446.8	1400.3	1342.0	1306.6	1266.3
33.5°	1459.2	1498.9	1526.0	1544.6	1541.8	1510.3	1415.3	1367.0	1307.1	1272.5	1235.3
34°	1426.4	1464.8	1492.2	1510.8	1507.7	1477.8	1384.0	1332.9	1271.7	1237.1	1203.6
34.5°	1391.3	1431.0	1459.2	1477.8	1474.1	1444.7	1351.8	1299.4	1235.6	1202.8	1171.0
35°	1355.4	1395.4	1425.6	1443.9	1440.1	1410.1	1320.0	1264.8	1200.7	1168.0	1137.7
35.5°	1319.2	1360.3	1392.3	1410.4	1405.5	1376.3	1287.7	1230.4	1165.9	1132.6	1104.4
36°	1283.4	1324.9	1359.0	1376.8	1370.4	1340.9	1254.2	1195.6	1131.5	1098.2	1070.4
36.5°	1245.9	1288.8	1324.4	1342.7	1333.4	1305.6	1219.3	1161.0	1097.0	1063.1	1035.5
37°	1208.2	1253.7	1291.4	1308.1	1296.5	1270.2	1185.0	1126.6	1062.6	1028.5	999.6
37.5°	1169.5	1216.5	1257.8	1273.0	1259.1	1233.8	1149.4	1092.0	1028.5	993.9	964.5
38°	1131.0	1179.8	1222.9	1237.9	1221.4	1196.3	1114.0	1056.7	994.7	958.3	928.6
38.5°	1092.3	1142.9	1187.6	1201.5	1182.9	1158.9	1077.9	1021.8	960.6	923.7	893.5
39°	1053.3	1106.0	1151.9	1166.4	1144.7	1121.5	1040.7	986.7	925.0	888.6	857.6
39.5°	1016.7	1069.1	1116.6	1130.0	1105.7	1083.3	1004.3	951.6	889.4	853.8	820.7
40°	979.7	1030.6	1079.9	1094.4	1067.3	1044.3	967.4	916.0	853.5	818.1	785.6
40.5°	943.6	992.9	1043.8	1057.5	1030.1	1006.3	929.9	880.9	817.6	783.5	749.2
41°	907.7	955.5	1006.9	1020.5	992.4	968.1	891.5	845.8	782.2	749.2	713.6
41.5°	871.8	913.7	970.5	983.1	956.0	930.2	853.2	810.4	746.9	714.6	678.2
42°	836.2	880.1	934.8	946.2	919.3	893.0	815.3	774.8	713.6	681.0	643.9
42.5°	800.3	846.5	898.2	909.3	884.7	855.8	778.6	739.9	681.8	647.7	611.9
43°	764.4	813.0	861.5	872.9	849.4	819.9	741.2	702.7	649.6	614.7	579.1
43.5°	728.8	779.4	824.8	849.9	813.2	783.8	704.5	667.6	618.1	582.7	548.6



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CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	625.0	675.4	715.6	731.6	707.4	676.4	601.5	564.9	522.3	491.0	459.8
45.5°	591.5	640.8	679.0	692.4	671.8	641.8	568.2	530.8	491.6	460.6	432.7
46°	559.7	606.7	642.3	657.6	637.7	607.5	534.9	498.3	461.1	431.9	405.6
46.5°	527.2	573.1	607.0	623.2	605.4	574.2	503.2	466.5	431.1	404.3	380.0
47°	494.9	540.9	572.1	588.6	571.8	541.6	471.2	434.8	401.7	377.2	355.0
47.5°	463.2	508.1	538.3	554.5	539.6	510.7	440.7	405.6	374.9	350.9	332.0
48°	433.5	476.1	504.7	521.0	508.3	479.9	411.3	375.4	346.7	325.5	308.8
48.5°	403.5	444.3	471.7	488.2	476.8	450.2	382.9	347.8	319.6	301.5	287.3
49°	375.6	414.4	440.2	456.4	445.1	421.6	355.0	320.6	293.0	278.6	266.2
49.5°	347.8	384.2	408.9	424.4	414.1	393.7	329.4	295.9	268.5	256.6	247.8
50°	321.7	354.5	379.8	394.5	384.9	366.3	303.6	271.6	246.6	237.3	229.5
50.5°	295.1	325.8	351.1	364.8	355.8	339.5	280.1	251.5	224.9	217.9	211.2
51°	270.8	297.9	323.0	336.1	328.4	313.9	257.7	231.6	203.2	198.8	192.9
51.5°	246.8	270.8	296.1	308.3	301.5	288.9	237.8	211.4	181.5	179.4	174.5
52°	223.3	245.8	270.3	281.4	275.7	264.9	217.9	191.3	163.9	162.1	158.3
52.5°	200.6	222.0	245.5	256.9	253.0	242.9	198.0	171.2	148.2	146.4	143.0
53°	179.7	199.8	222.0	232.4	230.5	221.0	178.1	154.6	134.2	131.7	128.3
53.5°	159.5	178.4	198.8	208.6	207.8	199.3	161.1	139.9	121.9	118.0	114.4
54°	140.4	159.0	177.9	186.7	185.4	177.4	144.6	125.7	109.5	104.8	100.4
54.5°	123.4	140.2	157.2	166.5	162.9	158.8	129.6	112.6	98.4	92.9	87.8
55°	107.9	123.1	138.6	147.4	144.3	141.2	114.6	100.2	87.5	81.3	75.4
55.5°	93.5	107.4	121.1	129.3	126.8	124.2	100.7	88.3	76.9	70.0	64.0
56°	81.8	92.2	104.3	112.3	110.8	108.9	87.8	76.9	66.9	59.6	53.2
56.5°	70.5	80.5	88.8	97.3	95.8	94.5	75.1	66.3	57.1	49.8	43.6
57°	58.9	68.9	77.2	85.5	81.8	81.1	63.5	56.0	47.8	41.0	35.9
57.5°	47.5	57.3	65.6	73.6	69.2	68.4	52.7	46.5	39.5	32.5	27.9
58°	35.9	45.7	54.0	62.0	57.3	56.8	43.4	38.2	31.0	24.0	19.9
58.5°	25.6	34.1	42.3	50.1	47.2	46.7	35.4	29.9	22.7	15.2	12.1
59°	15.7	24.0	32.0	38.5	38.7	38.2	27.4	21.7	14.5	6.7	4.1
59.5°	8.5	14.7	21.7	27.9	30.2	29.9	19.6	13.4	6.2	3.6	2.8
60°	6.7	7.7	12.9	17.8	21.7	21.4	11.6	5.2	3.1	2.6	2.3
60.5°	5.2	6.2	6.7	10.1	13.2	13.2	3.6	2.8	2.3	2.1	2.1
61°	3.4	4.9	5.4	8.0	4.9	4.6	2.3	2.1	2.1	1.8	1.8
61.5°	1.8	3.4	4.1	5.9	2.8	2.6	1.8	1.8	1.8	1.5	1.5
62°	1.5	2.1	3.1	4.1	2.1	2.1	1.5	1.5	1.5	1.5	1.3
62.5°	1.3	1.8	2.1	2.1	1.8	1.8	1.3	1.3	1.3	1.3	1.3
63°	1.3	1.5	1.8	1.8	1.5	1.5	1.3	1.3	1.0	1.0	1.0
63.5°	1.0	1.3	1.5	1.5	1.3	1.3	1.0	1.0	1.0	1.0	1.0
64°	0.8	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	0.8
64.5°	0.8	1.0	1.0	1.3	1.0	1.0	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8
65.5°	0.5	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.5
66°	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776079
 CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

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°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
69°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3
75.5°	0.0	0.0	0.3	0.3	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: P776079
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

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: P776079

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7
0.5°	2406.1	2404.8	2405.6	2407.7	2408.4	2408.4
1°	2404.6	2403.0	2403.0	2406.1	2407.2	2407.4
1.5°	2402.5	2400.2	2399.9	2404.1	2405.1	2405.9
2°	2399.4	2396.6	2395.8	2401.0	2403.0	2404.6
2.5°	2395.8	2392.2	2391.2	2397.3	2400.4	2403.0
3°	2390.9	2387.0	2385.7	2393.2	2397.6	2401.0
3.5°	2385.5	2380.8	2379.8	2388.3	2394.5	2399.2
4°	2379.0	2373.9	2373.1	2383.7	2391.4	2397.6
4.5°	2371.5	2366.1	2365.9	2378.2	2388.1	2395.5
5°	2363.3	2357.6	2357.6	2372.6	2384.4	2393.7
5.5°	2353.7	2348.8	2349.3	2366.4	2380.8	2392.2
6°	2344.7	2339.3	2340.5	2359.9	2376.7	2389.6
6.5°	2334.4	2329.2	2331.5	2353.2	2371.8	2387.3
7°	2324.3	2318.9	2322.0	2346.2	2367.4	2384.2
7.5°	2313.7	2308.8	2312.4	2338.2	2361.7	2380.6
8°	2302.3	2297.7	2302.6	2330.7	2356.6	2376.7
8.5°	2291.2	2287.1	2292.5	2322.5	2349.6	2372.0
9°	2280.4	2276.0	2281.9	2314.0	2342.6	2366.1
9.5°	2269.3	2264.9	2271.1	2304.9	2334.9	2359.4
10°	2257.9	2253.8	2261.0	2296.1	2326.6	2351.9
10.5°	2246.3	2242.7	2250.7	2286.3	2317.8	2343.6
11°	2235.5	2231.6	2240.1	2277.0	2308.3	2334.1
11.5°	2223.3	2220.2	2229.0	2267.2	2298.5	2324.8
12°	2212.0	2208.4	2217.9	2256.6	2288.4	2314.2
12.5°	2199.8	2197.0	2206.8	2245.8	2277.8	2303.4
13°	2187.7	2184.9	2195.5	2234.7	2267.7	2292.0
13.5°	2174.3	2172.7	2183.3	2223.1	2256.9	2280.9
14°	2161.4	2159.8	2171.2	2211.2	2246.1	2268.5
14.5°	2147.7	2147.4	2158.5	2198.3	2235.5	2256.9
15°	2134.0	2134.0	2145.4	2185.6	2224.4	2244.3
15.5°	2119.3	2120.1	2132.2	2172.0	2212.5	2231.9
16°	2104.3	2105.6	2118.0	2159.1	2200.9	2219.2
16.5°	2088.6	2090.6	2103.0	2145.4	2188.7	2206.3
17°	2072.6	2074.6	2087.5	2131.2	2176.4	2192.6
17.5°	2054.8	2057.6	2071.0	2116.7	2163.2	2179.7
18°	2037.7	2040.0	2054.0	2102.0	2149.0	2165.5
18.5°	2018.9	2021.7	2036.2	2087.0	2133.8	2151.3
19°	1999.8	2003.1	2017.8	2071.0	2117.8	2136.1
19.5°	1980.1	1983.5	1999.3	2054.8	2101.2	2120.6
20°	1960.0	1963.6	1980.1	2038.0	2083.7	2105.1
20.5°	1938.8	1943.5	1960.3	2019.9	2065.9	2088.8
21°	1917.2	1923.1	1940.1	2002.1	2046.8	2072.8

TEST NUMBER: P776079

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1852.9	1859.8	1878.9	1941.4	1985.1	2020.9
23°	1830.2	1838.9	1858.6	1920.3	1962.6	2003.4
23.5°	1805.9	1817.2	1836.9	1898.6	1939.9	1984.5
24°	1781.9	1795.3	1815.4	1875.6	1917.7	1965.4
24.5°	1757.3	1772.1	1792.5	1853.4	1894.4	1945.6
25°	1733.1	1749.3	1770.3	1829.4	1870.4	1925.7
25.5°	1707.5	1725.9	1746.2	1805.4	1845.9	1904.8
26°	1681.4	1701.3	1723.0	1780.6	1821.4	1882.6
26.5°	1654.9	1676.0	1698.2	1756.1	1796.3	1860.1
27°	1627.7	1650.0	1672.2	1730.0	1771.0	1836.9
27.5°	1599.6	1622.8	1645.0	1703.1	1745.5	1812.6
28°	1571.2	1595.0	1617.2	1675.0	1717.8	1786.5
28.5°	1541.8	1565.5	1588.8	1647.1	1691.0	1761.2
29°	1512.1	1536.1	1559.1	1617.9	1662.9	1733.9
29.5°	1481.4	1504.9	1527.8	1589.8	1634.7	1705.7
30°	1450.4	1473.4	1496.9	1559.1	1605.0	1677.3
30.5°	1419.4	1440.3	1464.8	1529.4	1576.1	1648.4
31°	1387.7	1407.5	1431.8	1498.1	1546.2	1618.2
31.5°	1355.4	1373.2	1396.7	1467.2	1516.0	1586.7
32°	1323.1	1338.3	1362.4	1437.0	1484.5	1556.2
32.5°	1290.8	1302.7	1328.0	1404.7	1453.7	1524.7
33°	1257.0	1268.1	1292.9	1373.2	1421.5	1492.7
33.5°	1224.0	1232.5	1257.3	1340.1	1390.5	1459.2
34°	1189.4	1197.4	1222.7	1307.4	1358.5	1426.4
34.5°	1156.1	1160.5	1187.1	1274.1	1325.7	1391.3
35°	1122.5	1125.4	1152.2	1239.5	1291.4	1355.4
35.5°	1088.2	1090.2	1117.9	1205.6	1257.8	1319.2
36°	1054.1	1055.9	1082.8	1171.0	1222.7	1283.4
36.5°	1018.5	1022.3	1048.9	1136.5	1187.6	1245.9
37°	983.1	987.5	1014.6	1100.1	1150.9	1208.2
37.5°	947.7	953.4	980.0	1063.9	1114.3	1169.5
38°	912.1	916.0	945.2	1027.8	1077.3	1131.0
38.5°	876.7	882.2	910.0	990.3	1039.9	1092.3
39°	840.6	848.3	874.7	954.7	1001.9	1053.3
39.5°	805.5	814.5	839.3	914.7	964.0	1016.7
40°	770.9	781.0	803.9	879.6	923.7	979.7
40.5°	736.6	746.4	768.6	844.2	886.0	943.6
41°	702.7	712.0	733.2	809.1	848.3	907.7
41.5°	668.9	679.2	698.1	773.7	810.9	871.8
42°	635.1	646.7	664.5	737.6	773.2	836.2
42.5°	602.6	614.7	631.7	702.0	735.8	800.3
43°	569.8	582.7	598.4	666.1	700.2	764.4
43.5°	538.0	552.2	565.9	630.2	664.5	728.8



TEST NUMBER: P776079

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	448.2	460.1	469.9	524.9	563.1	625.0
45.5°	420.6	430.6	438.4	492.1	531.3	591.5
46°	392.9	401.2	408.2	460.3	500.6	559.7
46.5°	367.6	373.8	378.7	429.3	470.9	527.2
47°	342.6	346.5	350.6	400.4	441.5	494.9
47.5°	319.1	319.6	323.0	372.3	411.8	463.2
48°	295.9	293.8	296.4	344.4	384.2	433.5
48.5°	273.7	270.3	271.6	318.8	356.8	403.5
49°	253.0	246.8	247.8	294.1	330.7	375.6
49.5°	234.4	225.6	226.2	271.6	304.9	347.8
50°	216.1	204.2	204.7	249.4	280.9	321.7
50.5°	197.5	185.6	185.6	227.7	256.6	295.1
51°	178.9	167.6	167.8	207.3	234.4	270.8
51.5°	162.4	152.1	151.8	189.5	213.0	246.8
52°	146.6	137.3	137.6	171.7	193.4	223.3
52.5°	131.9	124.2	124.2	154.9	174.3	200.6
53°	117.7	111.3	111.5	138.9	156.4	179.7
53.5°	104.3	99.9	99.9	124.4	139.4	159.5
54°	91.6	89.1	88.6	110.5	123.9	140.4
54.5°	80.0	79.0	78.5	97.3	108.4	123.4
55°	68.4	68.7	68.2	86.0	94.7	107.9
55.5°	57.8	58.6	58.1	74.9	83.1	93.5
56°	47.8	48.5	47.8	63.8	71.8	81.8
56.5°	39.2	39.5	38.7	52.7	60.2	70.5
57°	31.0	29.7	28.9	41.6	48.8	58.9
57.5°	22.5	20.1	19.1	31.8	37.4	47.5
58°	14.2	11.9	10.8	21.2	26.8	35.9
58.5°	5.7	9.6	8.5	12.7	17.3	25.6
59°	3.1	7.5	6.2	6.5	9.8	15.7
59.5°	2.3	5.7	4.1	5.2	7.7	8.5
60°	2.1	3.6	1.8	3.9	5.7	6.7
60.5°	1.8	1.5	1.5	2.8	3.6	5.2
61°	1.5	1.3	1.3	1.5	1.8	3.4
61.5°	1.3	1.3	1.0	1.3	1.5	1.8
62°	1.0	1.0	1.0	1.3	1.3	1.5
62.5°	1.0	1.0	0.8	1.0	1.0	1.3
63°	1.0	0.8	0.8	1.0	1.0	1.3
63.5°	0.8	0.8	0.8	0.8	0.8	1.0
64°	0.8	0.8	0.8	0.8	0.8	0.8
64.5°	0.8	0.5	0.5	0.8	0.8	0.8
65°	0.5	0.5	0.5	0.5	0.5	0.8
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: P776079

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.3	0.3	0.3	0.3	0.5
68°	0.3	0.3	0.3	0.3	0.3	0.5
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.0	0.3	0.3	0.3
73.5°	0.3	0.0	0.0	0.0	0.0	0.3
74°	0.3	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: P776079

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRC-2500lm-5000K

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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Scaled Data Report





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

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21.5°	2055.8	2098.1	2138.9	2148.5	2107.7	2087.5	2037.7	1983.2	1943.5	1920.8	1901.7
22°	2038.5	2082.4	2125.0	2133.0	2092.2	2070.8	2018.4	1964.9	1923.1	1900.9	1878.4



44°	692.9	744.8	788.2	810.4	777.1	747.7	670.2	633.3	585.8	552.0	518.4
44.5°	658.3	709.4	751.5	770.9	743.3	712.3	636.6	598.9	554.8	521.0	489.2



66.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.8	0.8	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°	1895.7	1902.2	1920.3	1982.7	2026.9	2055.8
22°	1874.3	1881.0	1899.9	1961.8	2006.5	2038.5



44°	506.5	520.5	533.1	594.3	629.9	692.9
44.5°	477.1	490.3	501.6	558.7	596.1	658.3

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66.5°	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.3	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)