

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: P776705

Luminaire Tested: HCDJBS4050CSD-HCD6TRH-HCD6TRLWW-5000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B013)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS4050CSD-HCD6TRH-HCD6TRLWW-5000lm-2700K
Description: 6 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

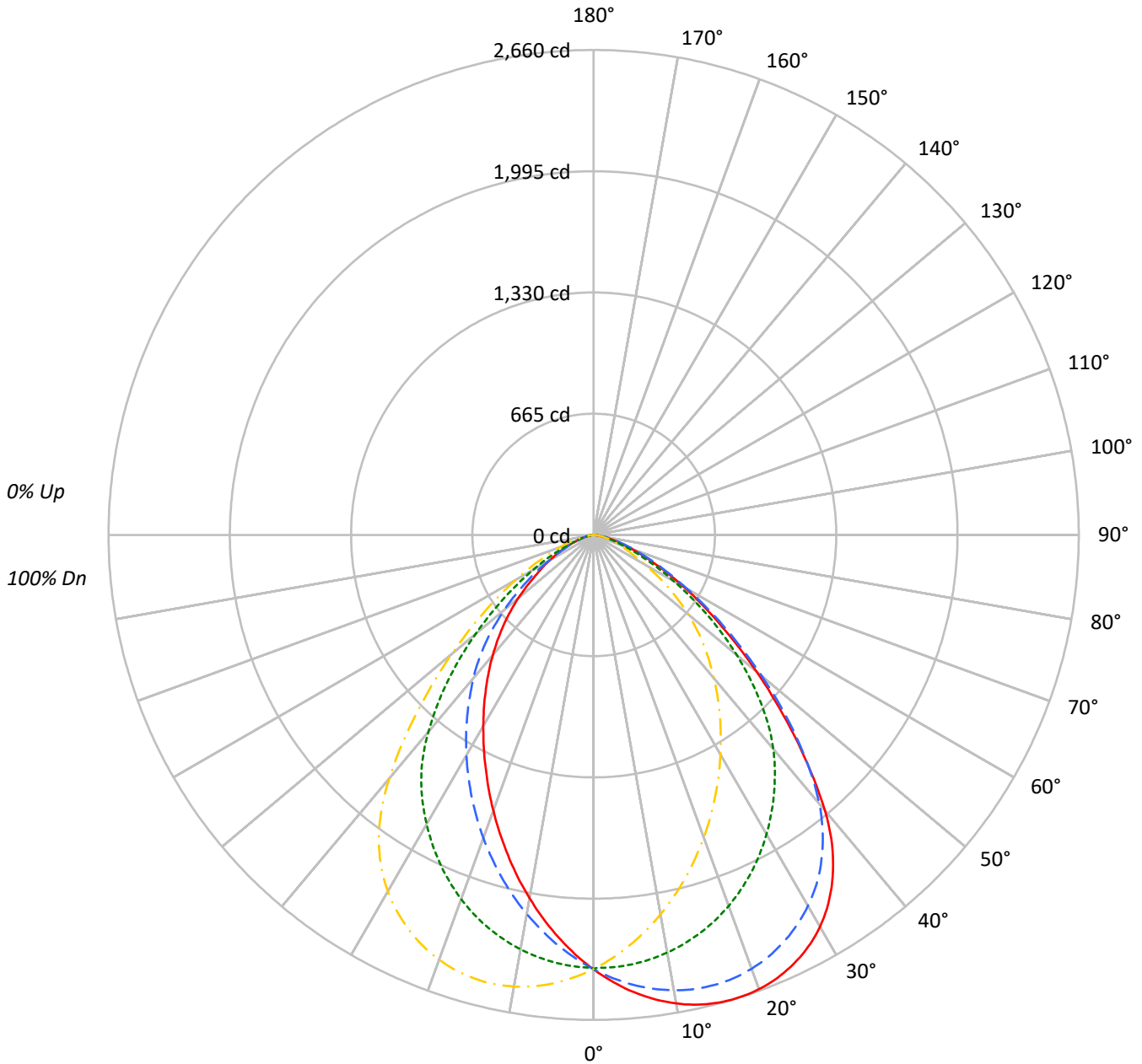
Lumens per Lamp: N/A
Luminaire Lumens: 4680.9 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.23
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68								
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60								
5	82	70	63	57	80	69	62	56	67	61	56	66	60	55	64	59	55	53								
6	76	64	56	51	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	130521	130521	130521	130521
5°	138542	130145	121946	129644
10°	145271	129490	112651	128477
15°	150693	128224	103162	126618
20°	154661	126326	93837	123957
25°	156995	123564	84894	120394
30°	157062	119936	76613	115955
35°	152966	115422	68917	110363
40°	141100	109634	61537	100896
45°	120501	100189	54052	87474
50°	99297	87400	46011	72126
55°	79653	72036	37284	56352
60°	62605	55807	30776	42266
65°	47580	40899	24062	30211
70°	35134	28707	17888	20821
75°	24909	19974	13323	13704
80°	15690	14238	9502	8619
85°	5158	11196	4843	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 123897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	4.8
10°-20°	631.4	13.5
20°-30°	923.0	19.7
30°-40°	1037.3	22.2
40°-50°	894.7	19.1
50°-60°	574.6	12.3
60°-70°	278.7	6.0
70°-80°	99.8	2.1
80°-90°	17.2	0.4
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°	1778.6	38.0
0°-40°	2815.9	60.2
0°-60°	4285.2	91.5
0°-90°	4680.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4680.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2381	2381	2381	2381	2381	
5°	2518	2365	2216	2356	2518	243
15°	2655	2259	1818	2231	2655	751
25°	2596	2043	1404	1990	2596	1195
35°	2286	1725	1030	1649	2286	1417
45°	1554	1292	697	1128	1554	1199
55°	833	754	390	590	833	753
65°	367	315	186	233	367	371
75°	118	94	63	65	118	129
85°	8	18	8	7	8	16
90°	0	1	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°	2380.9	2380.9	2380.9	2380.9	2380.9	2380.9	2380.9	2380.9	2380.9	2380.9	2380.9
0.5°	2398.7	2396.9	2393.2	2387.8	2375.0	2371.8	2370.0	2369.1	2368.2	2368.6	2371.4
1°	2412.8	2410.5	2403.7	2393.2	2375.0	2366.3	2359.0	2354.9	2352.2	2353.6	2359.5
1.5°	2427.4	2424.2	2413.7	2398.7	2375.0	2359.5	2347.7	2339.9	2336.3	2338.5	2348.1
2°	2441.5	2437.4	2423.8	2404.2	2374.5	2353.1	2336.3	2324.9	2320.3	2324.0	2335.8
2.5°	2455.2	2449.7	2433.8	2408.7	2373.6	2346.3	2324.0	2309.4	2303.5	2308.0	2323.5
3°	2468.4	2462.0	2442.4	2413.3	2372.3	2339.5	2312.1	2293.9	2286.1	2292.1	2310.7
3.5°	2481.2	2473.9	2452.0	2417.8	2370.9	2332.2	2299.4	2277.5	2269.3	2276.1	2298.4
4°	2493.5	2486.2	2460.2	2421.5	2369.1	2324.4	2286.6	2261.1	2251.5	2259.7	2285.2
4.5°	2505.8	2496.7	2468.9	2425.1	2367.2	2316.2	2273.4	2244.7	2233.7	2243.3	2272.0
5°	2517.6	2508.1	2476.6	2428.3	2365.0	2308.5	2260.2	2227.8	2216.0	2226.0	2258.3
5.5°	2528.6	2518.1	2484.4	2431.5	2362.2	2299.4	2246.5	2211.0	2197.7	2209.1	2244.7
6°	2539.5	2528.1	2491.6	2434.2	2359.5	2290.7	2232.8	2193.2	2178.6	2191.8	2230.5
6.5°	2549.5	2537.7	2498.5	2436.5	2356.3	2282.0	2218.2	2175.9	2160.4	2174.0	2216.4
7°	2559.5	2546.8	2504.9	2438.8	2352.7	2272.5	2204.1	2158.1	2141.2	2156.7	2201.8
7.5°	2569.1	2555.4	2511.2	2440.2	2349.0	2262.9	2189.5	2139.9	2122.1	2139.0	2187.3
8°	2577.8	2564.1	2516.7	2441.5	2344.9	2253.3	2174.5	2122.1	2102.5	2120.3	2172.2
8.5°	2586.4	2572.3	2522.2	2442.9	2340.8	2243.3	2159.0	2103.0	2083.4	2102.0	2157.2
9°	2594.6	2579.6	2527.2	2443.3	2336.3	2232.8	2144.0	2084.7	2063.3	2083.8	2142.1
9.5°	2602.4	2586.9	2531.7	2444.3	2331.3	2222.3	2128.5	2066.0	2043.3	2064.7	2126.2
10°	2609.7	2593.7	2535.9	2444.3	2326.2	2211.4	2113.0	2047.4	2023.7	2046.0	2111.2
10.5°	2616.5	2600.1	2540.0	2443.8	2320.8	2200.5	2097.0	2028.2	2004.1	2027.3	2095.2
11°	2622.9	2605.6	2543.6	2443.3	2315.3	2189.1	2080.6	2008.6	1983.1	2008.2	2079.3
11.5°	2628.4	2611.0	2546.3	2442.4	2308.9	2177.2	2064.2	1989.5	1962.6	1989.0	2062.9
12°	2633.8	2615.6	2549.1	2441.1	2303.0	2165.8	2047.8	1969.9	1942.6	1969.9	2046.9
12.5°	2638.8	2620.2	2551.3	2439.7	2296.2	2153.5	2031.4	1950.3	1922.1	1949.8	2030.5
13°	2642.9	2623.8	2553.2	2437.9	2289.8	2141.7	2014.6	1930.7	1901.1	1930.7	2013.6
13.5°	2647.0	2627.4	2554.5	2435.1	2282.5	2129.4	1997.7	1911.1	1880.6	1911.1	1997.2
14°	2650.2	2630.2	2555.4	2432.9	2275.2	2116.6	1980.4	1890.6	1859.6	1891.5	1980.4
14.5°	2653.0	2632.9	2555.4	2429.7	2267.5	2103.9	1963.1	1870.6	1839.1	1871.0	1963.1
15°	2655.2	2634.7	2555.9	2426.0	2259.3	2090.7	1945.7	1850.5	1817.7	1851.4	1945.7
15.5°	2657.1	2636.1	2555.4	2422.4	2251.5	2077.4	1928.0	1830.9	1797.2	1831.8	1928.4
16°	2658.4	2637.5	2554.5	2418.7	2242.8	2064.2	1910.7	1810.4	1776.2	1811.8	1911.1
16.5°	2659.3	2637.5	2553.6	2414.2	2234.2	2050.1	1892.4	1789.9	1755.3	1791.7	1893.8
17°	2659.8	2637.5	2551.8	2409.2	2225.1	2036.4	1875.1	1769.9	1734.3	1771.7	1876.0
17.5°	2659.3	2637.5	2549.5	2403.7	2216.0	2022.3	1856.9	1749.3	1712.9	1751.2	1858.3
18°	2658.9	2636.6	2547.2	2398.7	2206.4	2008.2	1838.7	1728.8	1692.4	1731.6	1840.5
18.5°	2657.5	2635.2	2543.6	2392.3	2196.4	1993.6	1820.4	1708.8	1671.4	1711.1	1822.3
19°	2656.1	2633.4	2540.4	2386.4	2185.9	1979.0	1802.2	1688.3	1650.5	1690.6	1804.5
19.5°	2653.9	2631.1	2536.3	2379.6	2175.9	1964.4	1784.4	1667.8	1629.5	1671.0	1786.7
20°	2651.1	2628.4	2532.2	2372.3	2165.4	1949.4	1766.2	1647.7	1608.5	1650.9	1768.5
20.5°	2647.9	2624.7	2527.2	2365.0	2154.0	1934.4	1747.1	1627.7	1588.5	1630.4	1750.3
21°	2644.3	2621.1	2522.2	2357.2	2142.6	1918.9	1728.4	1607.2	1567.1	1610.4	1731.6



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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°	2630.2	2606.9	2504.0	2331.3	2107.5	1871.9	1673.3	1547.0	1505.6	1550.2	1676.4
23°	2624.3	2601.0	2496.7	2322.1	2095.2	1856.0	1654.1	1526.5	1484.6	1530.2	1657.8
23.5°	2618.3	2594.6	2489.4	2312.6	2082.5	1840.0	1635.4	1506.9	1464.6	1510.1	1639.1
24°	2611.0	2587.8	2481.2	2302.1	2069.7	1823.6	1616.7	1486.4	1444.0	1490.1	1620.8
24.5°	2603.7	2580.5	2473.0	2292.1	2056.5	1807.7	1597.6	1466.8	1423.5	1470.0	1602.2
25°	2595.5	2572.8	2463.9	2281.1	2042.8	1791.3	1578.5	1446.3	1403.5	1450.4	1583.5
25.5°	2586.9	2564.1	2454.7	2270.2	2029.6	1774.4	1560.2	1427.2	1383.9	1430.8	1564.8
26°	2578.2	2555.4	2445.2	2258.3	2015.5	1757.6	1541.6	1407.1	1364.3	1411.2	1545.7
26.5°	2568.2	2545.9	2434.7	2246.9	2001.3	1740.7	1522.4	1387.5	1344.3	1391.2	1527.0
27°	2558.2	2535.9	2423.8	2234.2	1987.2	1723.8	1503.3	1367.9	1324.7	1372.0	1508.3
27.5°	2547.2	2525.4	2412.8	2221.9	1972.2	1706.5	1484.6	1349.3	1305.1	1352.5	1489.6
28°	2535.9	2514.0	2401.0	2208.7	1957.1	1689.2	1465.9	1329.7	1285.9	1333.3	1470.9
28.5°	2523.5	2502.6	2388.7	2195.5	1942.1	1671.9	1447.2	1310.5	1266.8	1314.2	1452.2
29°	2510.3	2490.3	2375.9	2181.3	1926.6	1654.6	1428.1	1290.9	1248.1	1295.0	1433.1
29.5°	2496.2	2477.1	2363.1	2167.7	1911.1	1636.8	1409.4	1272.7	1229.0	1275.4	1414.4
30°	2481.2	2463.4	2349.5	2153.5	1894.7	1619.5	1390.3	1253.6	1210.3	1256.8	1395.3
30.5°	2465.7	2448.8	2335.4	2138.0	1878.8	1601.7	1372.0	1234.9	1191.6	1237.6	1376.6
31°	2449.7	2433.3	2320.8	2123.0	1862.8	1583.5	1353.4	1216.7	1173.4	1218.9	1357.9
31.5°	2432.4	2416.9	2305.7	2107.5	1845.5	1565.7	1334.7	1198.0	1154.7	1200.3	1338.8
32°	2415.1	2399.6	2289.8	2091.6	1829.1	1547.9	1316.0	1179.8	1136.9	1181.6	1320.6
32.5°	2396.0	2381.4	2272.9	2075.2	1812.2	1529.7	1297.3	1161.5	1118.7	1163.3	1301.9
33°	2375.0	2362.7	2255.6	2058.8	1794.9	1511.0	1278.6	1143.8	1100.9	1145.1	1282.3
33.5°	2353.1	2343.1	2237.4	2041.9	1778.1	1492.8	1260.4	1126.0	1083.1	1126.4	1263.6
34°	2332.2	2323.0	2218.2	2024.1	1760.3	1474.6	1241.7	1107.8	1065.4	1109.1	1245.4
34.5°	2308.9	2301.2	2198.2	2005.9	1742.5	1456.3	1223.5	1090.0	1047.1	1090.9	1226.7
35°	2285.7	2278.8	2177.7	1987.7	1724.7	1438.1	1205.3	1072.2	1029.8	1072.7	1208.0
35.5°	2260.6	2256.1	2156.3	1968.5	1707.0	1419.4	1187.0	1054.9	1012.5	1055.4	1189.3
36°	2233.7	2231.5	2134.4	1948.9	1688.7	1401.2	1169.3	1037.6	995.7	1037.6	1171.1
36.5°	2206.4	2206.4	2111.6	1928.0	1669.6	1382.5	1151.0	1019.8	977.9	1019.8	1152.4
37°	2177.2	2180.0	2087.9	1907.0	1651.4	1364.3	1132.8	1002.5	961.0	1002.0	1134.2
37.5°	2147.2	2152.2	2063.3	1884.7	1632.2	1345.2	1115.0	985.6	943.7	984.7	1115.5
38°	2115.7	2123.9	2037.8	1862.4	1612.6	1326.5	1096.8	968.3	926.8	967.4	1097.3
38.5°	2082.0	2094.3	2011.4	1839.1	1593.1	1308.3	1079.0	951.5	910.4	950.1	1079.0
39°	2047.8	2063.3	1984.0	1815.0	1573.5	1289.1	1061.7	934.1	893.6	932.8	1061.3
39.5°	2010.9	2029.6	1955.8	1789.9	1553.0	1270.9	1044.0	917.7	876.7	915.5	1043.5
40°	1971.7	1994.5	1925.7	1763.9	1532.0	1251.7	1025.7	900.9	859.9	898.6	1025.3
40.5°	1931.2	1958.5	1893.8	1737.5	1510.1	1233.1	1008.4	884.0	843.5	881.7	1007.5
41°	1890.2	1921.1	1861.0	1709.7	1488.2	1214.8	990.6	867.2	827.1	864.4	990.2
41.5°	1848.7	1881.0	1827.3	1681.5	1465.5	1196.2	973.3	850.3	810.2	848.0	972.0
42°	1805.4	1841.4	1793.1	1652.3	1442.7	1177.5	955.6	833.9	794.2	831.2	953.7
42.5°	1763.5	1801.3	1758.0	1623.1	1418.5	1158.3	938.7	817.5	777.8	814.8	935.1
43°	1721.6	1760.7	1722.0	1593.1	1393.5	1138.7	921.4	801.1	761.4	798.3	915.9
43.5°	1679.2	1720.2	1685.1	1562.5	1368.9	1118.7	904.5	784.7	745.5	781.9	896.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1554.3	1598.1	1576.2	1469.1	1292.3	1056.3	853.9	735.9	697.2	733.2	838.4
45.5°	1514.7	1558.0	1538.4	1437.2	1265.4	1034.4	837.1	720.0	681.2	717.2	818.4
46°	1474.1	1517.4	1501.0	1405.8	1239.4	1013.0	819.8	703.6	665.3	700.8	798.3
46.5°	1432.2	1476.4	1463.6	1373.0	1212.6	991.1	802.4	687.6	648.9	684.4	779.2
47°	1393.5	1436.3	1426.3	1340.6	1185.7	969.2	784.2	671.7	633.4	667.6	759.2
47.5°	1352.5	1396.7	1388.0	1307.3	1158.8	946.9	766.5	655.7	617.4	651.2	738.7
48°	1314.2	1357.5	1350.6	1275.0	1132.4	925.0	748.7	640.2	602.0	634.3	718.6
48.5°	1276.8	1319.2	1313.3	1241.7	1105.0	903.2	730.5	623.8	586.0	617.4	699.0
49°	1238.1	1280.9	1275.9	1209.4	1078.1	880.8	712.2	607.9	570.1	600.6	679.0
49.5°	1201.6	1242.6	1239.9	1176.1	1050.8	858.5	694.0	592.4	554.6	583.7	658.9
50°	1164.3	1204.8	1202.1	1142.8	1024.8	836.2	676.2	576.9	539.5	567.3	638.9
50.5°	1126.9	1167.9	1166.5	1109.6	997.0	813.4	657.5	560.5	524.0	550.0	619.7
51°	1092.7	1131.4	1131.0	1077.7	969.2	790.6	638.9	544.1	508.1	532.7	599.7
51.5°	1057.6	1095.9	1095.9	1045.3	942.3	769.2	620.6	528.6	493.0	516.3	581.0
52°	1022.5	1060.8	1061.3	1013.4	915.5	746.9	602.4	513.1	478.0	499.4	561.4
52.5°	990.6	1026.2	1027.1	980.6	887.7	724.5	583.7	496.7	462.5	483.0	542.3
53°	956.5	992.9	993.4	949.6	860.3	702.2	566.0	480.7	447.5	466.2	523.1
53.5°	925.0	959.7	960.6	918.6	833.4	680.3	547.7	465.2	432.0	449.8	504.4
54°	892.7	926.8	928.2	888.1	807.0	658.5	529.0	449.3	417.4	433.4	485.8
54.5°	861.7	895.4	897.2	857.6	780.1	637.0	511.3	433.4	402.4	417.4	467.5
55°	833.4	864.4	865.3	827.5	753.7	616.1	493.5	418.3	390.1	402.4	449.3
55.5°	803.4	834.3	835.3	798.3	727.3	594.2	475.7	402.8	378.2	386.9	432.0
56°	776.0	804.7	805.6	769.6	701.3	572.8	458.0	388.7	365.9	371.8	414.2
56.5°	747.3	776.0	776.5	740.9	676.2	552.3	440.6	374.6	353.6	356.8	397.8
57°	720.9	747.8	748.2	713.1	651.2	531.3	423.8	360.4	344.9	341.8	381.4
57.5°	694.9	720.4	720.0	686.3	626.6	510.4	406.9	346.3	334.5	327.2	364.5
58°	668.9	694.0	693.1	659.8	601.5	490.8	391.0	338.1	323.5	313.5	348.1
58.5°	644.3	668.0	667.1	634.3	577.8	470.7	374.6	328.5	312.6	301.7	331.7
59°	619.3	642.5	641.6	608.8	554.6	451.1	358.6	318.1	301.7	292.5	316.2
59.5°	595.6	618.8	617.0	584.2	531.3	432.0	342.7	307.1	291.2	283.0	301.2
60°	571.0	594.7	592.4	560.5	509.0	413.3	326.7	296.6	280.7	273.4	286.6
60.5°	547.7	571.0	568.7	536.8	486.7	395.1	311.7	285.7	270.2	263.4	273.0
61°	525.9	547.7	545.9	514.5	465.7	377.3	297.1	275.2	260.2	253.4	259.7
61.5°	504.0	525.9	523.6	492.1	445.2	359.1	283.9	264.7	250.6	243.8	246.5
62°	482.6	504.0	502.6	470.7	425.1	341.3	270.7	254.7	241.1	234.2	234.7
62.5°	461.6	483.0	481.7	450.2	406.5	325.4	257.9	245.2	231.5	225.1	222.8
63°	442.0	462.5	461.1	430.2	387.8	308.9	245.6	235.6	221.9	216.0	211.4
63.5°	422.4	442.9	441.6	410.6	369.1	293.5	235.6	226.5	212.8	207.3	201.0
64°	402.8	423.3	422.4	391.0	350.4	278.4	226.9	217.4	203.7	198.7	190.9
64.5°	384.1	405.6	404.2	372.7	332.2	263.8	218.3	208.7	194.6	190.0	181.4
65°	366.8	387.3	386.0	355.0	315.3	250.2	209.6	200.0	185.5	181.4	172.7
65.5°	350.0	370.0	368.6	338.1	299.4	236.5	201.4	191.8	177.3	173.2	164.5
66°	332.6	352.7	351.8	321.7	283.4	223.3	192.8	183.2	169.1	165.0	157.2



TEST NUMBER: P776705

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-HCD6TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	286.6	305.8	304.8	275.7	240.1	188.7	169.5	159.9	145.4	141.7	137.6
68°	272.0	291.2	290.3	261.1	226.9	178.2	162.2	152.7	138.1	134.4	131.7
68.5°	258.4	277.1	275.7	247.4	213.7	168.1	154.9	145.4	131.2	127.6	125.8
69°	244.7	263.8	262.0	234.2	201.9	159.0	148.1	138.5	124.4	120.8	119.8
69.5°	231.5	250.6	249.3	221.5	190.0	149.9	141.7	131.7	118.0	114.4	114.4
70°	219.2	237.4	236.0	209.2	179.1	141.7	135.3	125.3	111.6	108.0	108.5
70.5°	207.3	225.6	224.2	197.8	168.1	134.0	129.4	119.4	106.2	102.1	103.0
71°	195.5	213.7	212.3	186.4	158.6	126.7	123.5	113.5	100.2	96.6	98.0
71.5°	184.1	202.8	201.0	175.9	149.0	119.4	117.6	107.5	94.8	91.1	93.0
72°	173.6	191.4	190.0	165.9	139.9	113.0	111.6	102.1	89.8	86.1	87.5
72.5°	162.2	180.9	179.5	157.2	131.2	106.6	106.6	97.1	84.8	81.6	82.9
73°	153.1	170.4	169.1	148.1	123.0	100.7	101.2	92.0	80.2	76.6	78.4
73.5°	144.0	163.1	160.4	139.4	115.3	95.2	96.1	87.0	75.6	72.5	73.8
74°	134.9	153.6	151.3	130.3	108.0	90.2	91.1	82.5	71.1	67.9	69.3
74.5°	125.8	144.5	142.6	121.2	101.2	85.2	86.6	77.9	67.0	63.8	65.2
75°	117.6	135.3	133.5	113.5	94.3	80.7	81.6	73.4	62.9	60.1	61.1
75.5°	108.9	126.2	124.9	106.2	87.9	76.6	77.5	69.3	59.2	56.0	57.4
76°	101.2	118.0	116.7	98.9	82.0	72.5	73.4	65.2	55.1	52.4	53.8
76.5°	93.9	110.3	108.9	92.0	76.6	68.4	69.3	61.5	51.5	48.8	50.1
77°	86.6	103.0	101.6	85.7	71.1	64.7	65.2	57.4	48.3	45.6	46.9
77.5°	79.7	96.1	94.3	79.7	66.1	61.1	61.5	53.8	45.1	42.4	43.7
78°	73.4	89.3	87.5	73.8	61.1	57.4	57.9	50.1	41.9	39.2	40.6
78.5°	67.0	82.9	81.1	67.9	56.5	54.2	54.2	46.5	38.7	36.5	37.8
79°	61.1	77.0	74.7	62.9	52.4	51.0	50.6	43.3	36.0	33.7	35.1
79.5°	55.1	71.1	68.8	57.9	48.3	47.8	47.4	40.1	33.3	30.5	32.4
80°	49.7	65.6	63.3	52.9	45.1	44.7	44.2	37.4	30.1	27.8	29.2
80.5°	44.7	60.1	58.3	48.8	41.5	41.9	41.0	34.2	27.3	25.1	26.4
81°	39.6	55.1	53.3	44.7	38.7	39.2	38.3	31.0	25.1	22.8	24.2
81.5°	34.6	50.1	48.3	40.6	35.5	36.5	35.1	27.8	22.3	20.5	21.9
82°	30.1	45.6	43.7	36.9	32.8	33.3	32.4	25.1	20.0	18.2	19.6
82.5°	26.0	41.0	39.6	33.7	29.6	30.5	29.2	22.8	17.8	15.9	17.3
83°	21.9	36.9	35.5	30.5	26.9	27.8	26.4	20.0	15.5	13.7	15.5
83.5°	17.8	32.8	31.9	27.3	24.6	25.5	23.7	17.8	13.7	11.8	13.7
84°	14.6	28.7	28.3	24.2	21.9	23.2	21.4	15.5	11.8	9.6	11.8
84.5°	11.4	25.1	25.1	21.4	20.0	21.0	19.1	13.2	9.6	8.2	10.0
85°	8.2	21.4	21.9	19.1	17.8	18.7	16.9	11.4	7.7	6.4	8.7
85.5°	5.0	17.8	18.7	16.4	15.5	16.4	14.6	9.6	6.4	5.5	6.8
86°	3.6	15.5	16.4	14.6	13.7	14.6	12.8	8.2	5.0	4.6	5.5
86.5°	2.7	12.8	14.1	12.3	11.8	12.3	10.9	6.8	4.1	3.6	4.1
87°	2.3	10.0	11.4	10.0	10.0	10.5	9.1	5.5	3.2	2.7	2.7
87.5°	1.4	7.7	9.1	8.2	8.2	8.7	7.3	4.6	2.3	1.8	1.4
88°	0.9	5.5	6.8	6.4	6.8	6.8	5.9	3.2	1.4	0.9	0.5
88.5°	0.5	3.2	4.6	4.6	5.5	5.0	4.1	2.3	0.9	0.5	0.0



TEST NUMBER: P776705

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-HCD6TRLWW-5000lm-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	0.5	0.9	0.9	0.5	0.0	0.0	0.0	0.0



TEST NUMBER: P776705

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-HCD6TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2380.9	2380.9	2380.9	2380.9	2380.9	2380.9
0.5°	2375.5	2374.1	2382.7	2390.5	2396.9	2398.7
1°	2369.1	2373.6	2387.8	2401.0	2410.5	2412.8
1.5°	2362.2	2372.3	2392.3	2410.1	2423.3	2427.4
2°	2354.9	2370.9	2396.9	2419.7	2436.1	2441.5
2.5°	2347.7	2369.1	2400.5	2428.8	2447.9	2455.2
3°	2340.4	2367.2	2404.2	2437.0	2460.2	2468.4
3.5°	2332.2	2365.0	2407.8	2445.2	2471.1	2481.2
4°	2324.0	2362.2	2410.5	2452.9	2482.5	2493.5
4.5°	2315.3	2359.0	2413.3	2460.2	2493.0	2505.8
5°	2306.6	2355.9	2415.6	2467.5	2503.5	2517.6
5.5°	2298.0	2352.7	2417.8	2473.9	2513.5	2528.6
6°	2288.4	2349.0	2419.7	2480.3	2522.6	2539.5
6.5°	2279.3	2344.9	2420.6	2486.2	2531.7	2549.5
7°	2269.7	2340.4	2421.5	2491.6	2540.0	2559.5
7.5°	2259.7	2335.8	2422.4	2496.7	2548.2	2569.1
8°	2249.7	2330.8	2422.4	2501.2	2555.9	2577.8
8.5°	2239.2	2325.3	2422.4	2505.3	2563.2	2586.4
9°	2228.7	2320.3	2421.9	2509.0	2570.0	2594.6
9.5°	2217.8	2313.9	2421.0	2512.6	2576.4	2602.4
10°	2206.9	2308.0	2419.7	2515.3	2582.3	2609.7
10.5°	2195.9	2302.1	2418.3	2517.6	2587.8	2616.5
11°	2184.1	2295.3	2416.0	2519.9	2592.8	2622.9
11.5°	2172.7	2288.0	2413.7	2521.3	2596.9	2628.4
12°	2160.4	2280.7	2411.0	2522.6	2601.0	2633.8
12.5°	2148.1	2272.9	2407.8	2523.1	2604.7	2638.8
13°	2135.8	2265.2	2404.6	2523.5	2607.4	2642.9
13.5°	2123.5	2257.4	2400.5	2523.1	2609.7	2647.0
14°	2110.7	2248.8	2396.4	2522.6	2611.9	2650.2
14.5°	2097.5	2240.1	2391.9	2521.3	2613.3	2653.0
15°	2084.3	2231.0	2386.4	2519.9	2614.2	2655.2
15.5°	2071.1	2221.4	2380.9	2517.6	2614.7	2657.1
16°	2057.4	2212.3	2375.5	2515.3	2614.7	2658.4
16.5°	2043.7	2202.3	2369.5	2512.2	2614.2	2659.3
17°	2029.6	2192.3	2362.7	2509.0	2613.3	2659.8
17.5°	2015.5	2181.8	2355.9	2504.9	2611.9	2659.3
18°	2000.9	2170.9	2348.6	2500.8	2610.1	2658.9
18.5°	1986.3	2159.9	2340.8	2495.8	2607.4	2657.5
19°	1971.7	2148.5	2332.6	2490.7	2604.7	2656.1
19.5°	1956.7	2137.1	2324.4	2484.8	2601.0	2653.9
20°	1941.6	2124.8	2315.3	2478.9	2597.4	2651.1
20.5°	1926.6	2113.0	2306.2	2472.1	2592.8	2647.9
21°	1910.7	2100.7	2296.6	2465.2	2587.8	2644.3

TEST NUMBER: P776705

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-HCD6TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1863.7	2061.0	2265.6	2441.5	2570.0	2630.2
23°	1847.3	2047.8	2254.2	2432.4	2563.2	2624.3
23.5°	1831.8	2034.1	2242.8	2423.3	2555.9	2618.3
24°	1815.0	2020.0	2231.0	2413.7	2547.7	2611.0
24.5°	1798.1	2005.9	2218.7	2403.2	2539.0	2603.7
25°	1781.7	1990.4	2205.9	2392.3	2529.9	2595.5
25.5°	1765.3	1975.8	2193.2	2380.9	2519.9	2586.9
26°	1748.4	1960.8	2180.0	2369.5	2510.3	2578.2
26.5°	1730.7	1946.2	2166.8	2357.2	2499.4	2568.2
27°	1713.8	1929.8	2152.6	2344.5	2488.5	2558.2
27.5°	1696.5	1913.4	2138.0	2331.7	2476.6	2547.2
28°	1679.2	1898.4	2123.0	2318.0	2463.9	2535.9
28.5°	1661.4	1882.0	2108.0	2303.9	2450.6	2523.5
29°	1643.6	1865.5	2092.5	2289.3	2437.0	2510.3
29.5°	1626.3	1849.1	2076.1	2273.8	2421.9	2496.2
30°	1608.1	1831.8	2060.6	2257.9	2406.4	2481.2
30.5°	1589.9	1815.0	2043.3	2241.0	2389.6	2465.7
31°	1572.1	1797.2	2026.9	2223.7	2372.3	2449.7
31.5°	1553.9	1780.8	2009.1	2205.0	2353.6	2432.4
32°	1535.6	1761.7	1990.9	2185.9	2334.9	2415.1
32.5°	1517.4	1743.9	1971.7	2166.3	2315.3	2396.0
33°	1498.7	1725.2	1951.7	2145.3	2295.3	2375.0
33.5°	1480.5	1707.4	1932.1	2123.9	2273.8	2353.1
34°	1461.8	1688.3	1910.2	2100.7	2250.1	2332.2
34.5°	1443.6	1668.7	1887.9	2077.0	2225.5	2308.9
35°	1424.5	1649.1	1865.1	2052.8	2200.5	2285.7
35.5°	1406.2	1628.1	1841.4	2027.8	2175.0	2260.6
36°	1387.5	1606.3	1817.2	2001.3	2148.1	2233.7
36.5°	1368.4	1584.8	1792.2	1974.0	2119.8	2206.4
37°	1349.3	1562.1	1765.3	1944.8	2089.7	2177.2
37.5°	1329.7	1537.5	1738.4	1914.8	2058.3	2147.2
38°	1310.5	1513.3	1708.8	1883.8	2025.0	2115.7
38.5°	1290.9	1488.7	1680.1	1851.0	1990.9	2082.0
39°	1270.9	1463.2	1648.6	1816.3	1954.9	2047.8
39.5°	1249.9	1436.3	1618.6	1779.9	1916.6	2010.9
40°	1228.5	1409.9	1585.8	1742.5	1876.5	1971.7
40.5°	1205.7	1382.5	1553.9	1706.5	1836.4	1931.2
41°	1183.4	1355.2	1521.5	1668.2	1795.4	1890.2
41.5°	1160.2	1328.3	1488.7	1630.4	1753.9	1848.7
42°	1136.5	1299.6	1456.3	1592.6	1711.5	1805.4
42.5°	1113.7	1271.3	1423.1	1554.8	1671.0	1763.5
43°	1090.0	1243.1	1388.9	1516.0	1630.4	1721.6
43.5°	1066.3	1215.3	1355.6	1477.8	1589.0	1679.2



TEST NUMBER: P776705

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-HCD6TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	994.7	1128.3	1254.0	1364.3	1468.2	1554.3
45.5°	971.1	1100.5	1220.3	1327.4	1429.0	1514.7
46°	946.9	1071.3	1186.6	1289.6	1389.4	1474.1
46.5°	923.2	1043.5	1153.8	1254.0	1351.5	1432.2
47°	898.6	1014.8	1121.0	1218.0	1312.8	1393.5
47.5°	874.0	985.6	1086.8	1182.9	1274.5	1352.5
48°	850.3	957.4	1054.4	1147.9	1237.2	1314.2
48.5°	826.6	929.1	1023.0	1114.6	1201.2	1276.8
49°	802.0	902.2	992.0	1080.4	1164.7	1238.1
49.5°	778.8	873.5	960.6	1047.1	1130.1	1201.6
50°	755.1	845.7	929.1	1014.8	1094.1	1164.3
50.5°	731.4	817.9	900.4	982.4	1060.8	1126.9
51°	708.1	791.1	870.3	951.5	1027.1	1092.7
51.5°	686.3	763.7	842.1	920.5	993.8	1057.6
52°	662.1	738.2	814.3	890.9	961.9	1022.5
52.5°	639.3	712.7	786.5	861.7	930.5	990.6
53°	617.0	686.3	759.2	832.5	899.5	956.5
53.5°	595.1	661.2	732.7	804.7	869.9	925.0
54°	572.8	637.5	707.2	776.5	839.8	892.7
54.5°	551.8	613.3	681.7	750.5	811.6	861.7
55°	530.4	589.6	657.1	723.6	783.8	833.4
55.5°	509.0	567.3	633.4	698.6	756.4	803.4
56°	488.5	545.0	609.2	673.5	730.0	776.0
56.5°	468.4	523.1	586.5	649.3	703.1	747.3
57°	448.8	502.2	563.7	625.2	678.0	720.9
57.5°	429.7	481.2	542.3	602.0	653.4	694.9
58°	411.0	461.1	520.8	580.1	629.7	668.9
58.5°	393.7	441.1	499.4	557.8	606.1	644.3
59°	375.9	422.4	480.3	536.3	583.3	619.3
59.5°	358.2	403.7	459.3	515.4	561.9	595.6
60°	340.8	385.5	441.1	495.3	540.0	571.0
60.5°	324.9	368.2	422.4	475.3	519.9	547.7
61°	309.4	350.9	404.2	455.7	498.5	525.9
61.5°	293.9	334.5	386.9	437.9	478.9	504.0
62°	278.9	318.5	370.0	419.7	459.8	482.6
62.5°	264.7	303.0	353.2	401.9	440.6	461.6
63°	251.1	287.5	337.2	384.6	422.0	442.0
63.5°	237.9	273.0	321.3	368.6	403.7	422.4
64°	225.1	259.3	306.2	352.2	386.0	402.8
64.5°	213.3	245.6	292.1	336.7	369.6	384.1
65°	201.9	232.9	278.0	321.3	352.7	366.8
65.5°	190.5	220.5	264.3	307.1	336.7	350.0
66°	180.0	208.2	250.6	293.0	320.8	332.6



TEST NUMBER: P776705

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-HCD6TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	151.3	175.0	214.6	253.4	277.5	286.6
68°	142.6	165.4	202.8	240.6	264.3	272.0
68.5°	134.0	156.3	191.8	228.8	251.1	258.4
69°	126.7	147.6	181.4	216.9	238.8	244.7
69.5°	118.9	139.0	171.3	206.0	226.0	231.5
70°	112.1	129.9	162.2	195.0	214.6	219.2
70.5°	105.3	121.2	153.1	184.5	203.2	207.3
71°	99.3	113.9	144.5	174.5	192.8	195.5
71.5°	93.0	106.6	135.8	165.0	181.8	184.1
72°	87.5	99.3	126.7	156.3	171.8	173.6
72.5°	82.0	93.0	118.9	147.6	161.8	162.2
73°	77.0	86.6	111.2	139.0	153.1	153.1
73.5°	72.0	81.1	104.4	130.3	144.5	144.0
74°	67.4	75.2	97.5	121.7	135.3	134.9
74.5°	62.9	69.7	91.1	113.9	126.7	125.8
75°	58.8	64.7	84.3	106.6	118.9	117.6
75.5°	55.1	59.7	78.4	99.3	111.2	108.9
76°	51.5	55.1	72.5	92.5	103.4	101.2
76.5°	48.3	50.6	67.0	85.7	96.1	93.9
77°	45.1	46.9	62.0	79.3	89.8	86.6
77.5°	41.9	43.3	57.0	73.4	83.4	79.7
78°	39.2	39.6	52.4	67.9	77.0	73.4
78.5°	36.5	36.5	47.8	62.4	71.1	67.0
79°	34.2	33.3	43.7	57.0	65.2	61.1
79.5°	31.4	30.1	40.1	51.9	59.7	55.1
80°	28.7	27.3	36.0	47.4	54.7	49.7
80.5°	26.4	25.1	32.8	42.8	49.7	44.7
81°	24.2	22.3	29.2	38.7	44.7	39.6
81.5°	21.9	20.0	26.4	34.6	40.1	34.6
82°	19.6	17.8	23.2	30.5	36.0	30.1
82.5°	17.8	15.9	20.5	27.3	31.9	26.0
83°	15.5	14.1	17.8	23.7	28.3	21.9
83.5°	13.7	11.8	15.5	20.5	24.6	17.8
84°	11.8	10.0	13.2	17.8	21.4	14.6
84.5°	10.0	8.2	10.9	15.0	18.2	11.4
85°	8.2	6.8	8.7	12.8	15.9	8.2
85.5°	6.4	5.0	6.8	10.0	13.2	5.0
86°	5.0	3.6	5.0	7.3	10.5	3.6
86.5°	3.6	2.3	3.2	5.0	8.2	2.7
87°	1.8	0.9	1.4	3.2	5.5	2.3
87.5°	0.9	0.5	0.5	1.4	3.2	1.4
88°	0.0	0.0	0.0	0.0	1.4	0.9
88.5°	0.0	0.0	0.0	0.0	0.0	0.5



TEST NUMBER: P776705

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-HCD6TRLWW-5000lm-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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Scaled Data Report





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

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Scaled Data Report



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21.5°	2640.2	2617.0	2516.7	2349.0	2131.2	1903.4	1710.2	1587.1	1546.6	1589.9	1713.4
22°	2635.6	2611.9	2510.3	2340.4	2119.8	1887.9	1691.5	1566.6	1525.6	1570.3	1694.7



44°	1637.7	1679.6	1648.6	1531.5	1343.3	1098.2	887.7	768.3	729.1	765.5	877.2
44.5°	1596.7	1638.6	1613.1	1500.5	1317.8	1077.7	870.8	751.9	712.7	749.1	858.0



66.5°	316.2	336.7	335.8	305.3	268.4	211.4	184.5	175.0	160.4	156.8	150.4
67°	301.2	321.3	319.4	290.3	254.3	199.6	176.8	167.7	152.7	149.5	144.0



89°	0.0	1.4	2.7	2.7	3.6	3.6	2.7	1.4	0.0	0.0	0.0
89.5°	0.0	0.5	0.9	1.4	2.3	2.3	1.4	0.5	0.0	0.0	0.0

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21.5°	1895.6	2087.0	2286.6	2457.5	2582.8	2640.2
22°	1879.2	2075.2	2276.1	2449.7	2576.4	2635.6



44°	1042.1	1186.6	1321.9	1439.5	1547.9	1637.7
44.5°	1018.4	1157.4	1288.2	1401.7	1508.3	1596.7



66.5°	169.5	196.9	238.3	279.3	306.2	316.2
67°	159.9	185.5	226.0	265.7	291.6	301.2

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

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(END OF REPORT)