

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: P776714

Luminaire Tested: HCDJBS4050CSD-HCD6TRMB-5000lm-5000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B001-HCD6TRMB)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS4050CSD-HCD6TRMB-5000lm-5000K  
Description: 6 INCH ROUND MEDIUM MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3589.5 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

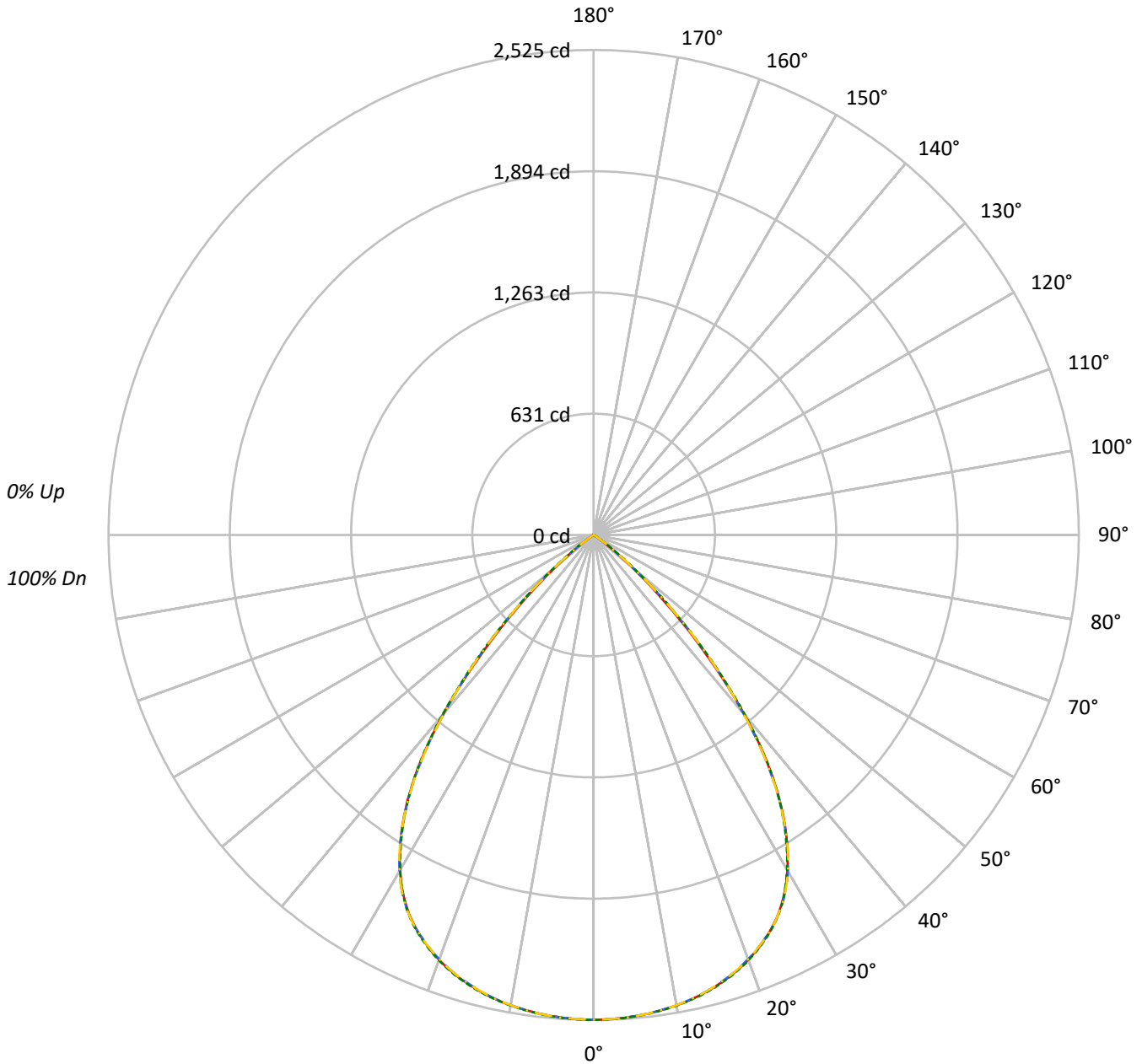
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776714

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-5000K

### 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	96	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	92	85	79	75	83	78	74	80	76	73	79	75	72	70					70			
5	89	79	73	68	87	78	72	68	77	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59					59			
7	79	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50					50			
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	138383	138383	138383	138383
5°	138377	138432	138377	138432
10°	138413	138519	138413	138519
15°	138253	138417	138253	138417
20°	137305	137474	137305	137474
25°	134669	134935	134669	134935
30°	127577	127393	127577	127393
35°	113087	112732	113087	112732
40°	87213	87943	87213	87943
45°	52129	54727	52129	54727
50°	21560	24784	21560	24784
55°	4177	4913	4177	4913
60°	318	318	318	318
65°	130	130	130	130
70°	80	80	80	80
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 54843 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.2	6.7
10°-20°	686.8	19.1
20°-30°	1019.9	28.4
30°-40°	1033.7	28.8
40°-50°	541.0	15.1
50°-60°	67.6	1.9
60°-70°	1.2	0.0
70°-80°	0.2	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°	1945.8	54.2
0°-40°	2979.6	83.0
0°-60°	3588.1	100.0
0°-90°	3589.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3589.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2524	2524	2524	2524	2524	
5°	2515	2516	2515	2516	2515	239
15°	2436	2439	2436	2439	2436	687
25°	2226	2231	2226	2231	2226	1019
35°	1690	1684	1690	1684	1690	1035
45°	672	706	672	706	672	527
55°	44	51	44	51	44	63
65°	1	1	1	1	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°	2524.3	2524.3	2524.3	2524.3	2524.3	2524.3	2524.3	2524.3	2524.3	2524.3	2524.3
0.5°	2524.3	2523.8	2523.8	2523.8	2524.8	2523.8	2523.8	2523.8	2524.3	2523.8	2523.8
1°	2523.8	2523.8	2523.4	2523.4	2524.8	2523.4	2523.4	2523.8	2523.8	2523.8	2523.4
1.5°	2523.4	2523.4	2522.9	2522.9	2524.3	2522.9	2522.9	2523.4	2523.4	2523.4	2522.9
2°	2522.9	2522.4	2522.4	2522.4	2523.4	2522.4	2522.4	2522.4	2522.9	2522.4	2522.4
2.5°	2521.9	2521.4	2521.4	2521.4	2522.9	2521.4	2521.4	2521.4	2521.9	2521.4	2521.4
3°	2520.5	2520.5	2520.5	2520.5	2521.9	2520.5	2520.5	2520.5	2520.5	2520.5	2520.5
3.5°	2519.5	2519.5	2519.5	2519.0	2520.5	2519.0	2519.5	2519.5	2519.5	2519.5	2519.5
4°	2518.0	2518.0	2518.0	2518.0	2519.0	2518.0	2518.0	2518.0	2518.0	2518.0	2518.0
4.5°	2516.1	2516.1	2516.1	2516.1	2517.5	2516.1	2516.1	2516.1	2516.1	2516.1	2516.1
5°	2514.6	2514.6	2514.6	2514.6	2515.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
5.5°	2512.7	2512.7	2512.7	2512.7	2514.1	2512.7	2512.7	2512.7	2512.7	2512.7	2512.7
6°	2510.8	2510.3	2510.3	2510.3	2511.7	2510.3	2510.3	2510.3	2510.8	2510.3	2510.3
6.5°	2508.3	2507.8	2508.3	2508.3	2509.8	2508.3	2508.3	2507.8	2508.3	2507.8	2508.3
7°	2505.9	2505.4	2505.4	2505.9	2506.9	2505.9	2505.4	2505.4	2505.9	2505.4	2505.4
7.5°	2503.0	2503.0	2503.0	2503.0	2504.4	2503.0	2503.0	2503.0	2503.0	2503.0	2503.0
8°	2500.1	2500.1	2500.1	2500.1	2501.5	2500.1	2500.1	2500.1	2500.1	2500.1	2500.1
8.5°	2497.2	2496.7	2496.7	2497.2	2498.6	2497.2	2496.7	2496.7	2497.2	2496.7	2496.7
9°	2493.8	2493.8	2493.8	2493.8	2495.2	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8
9.5°	2490.4	2489.9	2489.9	2490.4	2491.8	2490.4	2489.9	2489.9	2490.4	2489.9	2489.9
10°	2486.5	2486.5	2486.0	2486.5	2488.4	2486.5	2486.0	2486.5	2486.5	2486.5	2486.0
10.5°	2483.1	2482.1	2482.1	2482.6	2484.6	2482.6	2482.1	2482.1	2483.1	2482.1	2482.1
11°	2478.7	2478.2	2477.8	2478.7	2480.7	2478.7	2477.8	2478.2	2478.7	2478.2	2477.8
11.5°	2474.4	2473.4	2473.4	2474.4	2476.3	2474.4	2473.4	2473.4	2474.4	2473.4	2473.4
12°	2469.5	2469.0	2468.5	2469.5	2471.9	2469.5	2468.5	2469.0	2469.5	2469.0	2468.5
12.5°	2464.7	2463.7	2463.2	2464.7	2467.1	2464.7	2463.2	2463.7	2464.7	2463.7	2463.2
13°	2459.8	2458.8	2457.9	2459.3	2462.2	2459.3	2457.9	2458.8	2459.8	2458.8	2457.9
13.5°	2454.0	2453.0	2452.5	2454.0	2456.9	2454.0	2452.5	2453.0	2454.0	2453.0	2452.5
14°	2448.6	2447.2	2446.2	2448.2	2451.1	2448.2	2446.2	2447.2	2448.6	2447.2	2446.2
14.5°	2442.3	2441.4	2440.4	2441.9	2445.3	2441.9	2440.4	2441.4	2442.3	2441.4	2440.4
15°	2436.0	2434.6	2433.6	2435.5	2438.9	2435.5	2433.6	2434.6	2436.0	2434.6	2433.6
15.5°	2429.2	2427.8	2426.8	2428.8	2432.2	2428.8	2426.8	2427.8	2429.2	2427.8	2426.8
16°	2422.4	2421.0	2419.5	2422.0	2425.4	2422.0	2419.5	2421.0	2422.4	2421.0	2419.5
16.5°	2415.2	2413.2	2412.3	2414.7	2418.1	2414.7	2412.3	2413.2	2415.2	2413.2	2412.3
17°	2407.4	2405.5	2404.5	2406.9	2410.3	2406.9	2404.5	2405.5	2407.4	2405.5	2404.5
17.5°	2399.2	2397.7	2396.3	2398.7	2402.6	2398.7	2396.3	2397.7	2399.2	2397.7	2396.3
18°	2390.9	2389.0	2387.5	2390.4	2393.8	2390.4	2387.5	2389.0	2390.9	2389.0	2387.5
18.5°	2381.7	2380.2	2378.8	2381.7	2385.1	2381.7	2378.8	2380.2	2381.7	2380.2	2378.8
19°	2373.0	2371.0	2369.6	2372.5	2375.9	2372.5	2369.6	2371.0	2373.0	2371.0	2369.6
19.5°	2363.3	2361.8	2359.9	2362.8	2366.7	2362.8	2359.9	2361.8	2363.3	2361.8	2359.9
20°	2353.6	2351.6	2350.2	2353.1	2356.5	2353.1	2350.2	2351.6	2353.6	2351.6	2350.2
20.5°	2342.9	2341.4	2340.0	2342.9	2346.3	2342.9	2340.0	2341.4	2342.9	2341.4	2340.0
21°	2332.2	2330.8	2329.3	2332.2	2335.1	2332.2	2329.3	2330.8	2332.2	2330.8	2329.3



TEST NUMBER: P776714

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2296.8	2295.3	2294.8	2297.3	2300.2	2297.3	2294.8	2295.3	2296.8	2295.3	2294.8
23°	2283.7	2282.7	2282.2	2285.1	2287.1	2285.1	2282.2	2282.7	2283.7	2282.7	2282.2
23.5°	2270.1	2269.6	2269.6	2272.0	2274.0	2272.0	2269.6	2269.6	2270.1	2269.6	2269.6
24°	2256.5	2256.0	2256.5	2258.0	2260.4	2258.0	2256.5	2256.0	2256.5	2256.0	2256.5
24.5°	2242.0	2242.0	2242.5	2243.9	2245.8	2243.9	2242.5	2242.0	2242.0	2242.0	2242.5
25°	2226.4	2226.9	2227.9	2228.9	2230.8	2228.9	2227.9	2226.9	2226.4	2226.9	2227.9
25.5°	2210.4	2210.9	2212.4	2212.4	2214.3	2212.4	2212.4	2210.9	2210.4	2210.9	2212.4
26°	2193.0	2193.9	2195.4	2195.4	2197.3	2195.4	2195.4	2193.9	2193.0	2193.9	2195.4
26.5°	2175.0	2176.5	2178.4	2177.4	2178.4	2177.4	2178.4	2176.5	2175.0	2176.5	2178.4
27°	2155.6	2157.5	2159.5	2158.0	2159.0	2158.0	2159.5	2157.5	2155.6	2157.5	2159.5
27.5°	2135.2	2137.7	2139.6	2137.7	2137.7	2137.7	2139.6	2137.7	2135.2	2137.7	2139.6
28°	2113.4	2116.3	2118.7	2115.8	2114.4	2115.8	2118.7	2116.3	2113.4	2116.3	2118.7
28.5°	2090.6	2094.0	2096.4	2093.0	2090.6	2093.0	2096.4	2094.0	2090.6	2094.0	2096.4
29°	2066.8	2070.2	2072.6	2069.2	2065.9	2069.2	2072.6	2070.2	2066.8	2070.2	2072.6
29.5°	2041.6	2045.5	2047.9	2044.0	2039.7	2044.0	2047.9	2045.5	2041.6	2045.5	2047.9
30°	2015.4	2018.3	2021.2	2016.8	2012.5	2016.8	2021.2	2018.3	2015.4	2018.3	2021.2
30.5°	1988.2	1991.1	1993.6	1988.7	1983.9	1988.7	1993.6	1991.1	1988.2	1991.1	1993.6
31°	1959.6	1962.0	1964.4	1960.1	1954.7	1960.1	1964.4	1962.0	1959.6	1962.0	1964.4
31.5°	1930.0	1931.5	1933.9	1929.0	1924.2	1929.0	1933.9	1931.5	1930.0	1931.5	1933.9
32°	1899.4	1899.4	1901.9	1897.0	1893.1	1897.0	1901.9	1899.4	1899.4	1899.4	1901.9
32.5°	1867.4	1866.9	1868.4	1863.5	1860.6	1863.5	1868.4	1866.9	1867.4	1866.9	1868.4
33°	1834.4	1832.5	1833.9	1829.1	1828.1	1829.1	1833.9	1832.5	1834.4	1832.5	1833.9
33.5°	1800.9	1797.6	1798.0	1793.7	1793.2	1793.7	1798.0	1797.6	1800.9	1797.6	1798.0
34°	1765.0	1761.2	1761.2	1756.3	1758.7	1756.3	1761.2	1761.2	1765.0	1761.2	1761.2
34.5°	1728.2	1723.8	1722.8	1718.0	1722.4	1718.0	1722.8	1723.8	1728.2	1723.8	1722.8
35°	1689.8	1685.0	1683.1	1679.7	1684.5	1679.7	1683.1	1685.0	1689.8	1685.0	1683.1
35.5°	1649.6	1645.7	1642.3	1640.4	1645.7	1640.4	1642.3	1645.7	1649.6	1645.7	1642.3
36°	1607.9	1604.9	1600.1	1599.1	1605.4	1599.1	1600.1	1604.9	1607.9	1604.9	1600.1
36.5°	1564.7	1562.2	1556.4	1556.9	1564.2	1556.9	1556.4	1562.2	1564.7	1562.2	1556.4
37°	1519.5	1518.1	1511.3	1513.7	1520.5	1513.7	1511.3	1518.1	1519.5	1518.1	1511.3
37.5°	1473.0	1472.5	1464.2	1468.6	1474.9	1468.6	1464.2	1472.5	1473.0	1472.5	1464.2
38°	1425.4	1424.9	1415.7	1422.0	1428.3	1422.0	1415.7	1424.9	1425.4	1424.9	1415.7
38.5°	1375.9	1375.5	1365.3	1374.0	1380.3	1374.0	1365.3	1375.5	1375.9	1375.5	1365.3
39°	1325.5	1324.0	1314.3	1325.5	1331.3	1325.5	1314.3	1324.0	1325.5	1324.0	1314.3
39.5°	1273.6	1271.1	1262.4	1275.0	1280.8	1275.0	1262.4	1271.1	1273.6	1271.1	1262.4
40°	1218.7	1216.8	1209.5	1222.6	1228.9	1222.6	1209.5	1216.8	1218.7	1216.8	1209.5
40.5°	1164.4	1162.0	1157.1	1169.7	1175.1	1169.7	1157.1	1162.0	1164.4	1162.0	1157.1
41°	1108.6	1107.2	1106.2	1116.9	1121.7	1116.9	1106.2	1107.2	1108.6	1107.2	1106.2
41.5°	1053.3	1051.8	1055.2	1064.0	1068.3	1064.0	1055.2	1051.8	1053.3	1051.8	1055.2
42°	997.0	997.5	1004.8	1010.6	1015.9	1010.6	1004.8	997.5	997.0	997.5	1004.8
42.5°	941.2	943.7	953.8	958.7	963.5	958.7	953.8	943.7	941.2	943.7	953.8
43°	885.4	890.3	902.9	907.3	910.7	907.3	902.9	890.3	885.4	890.3	902.9
43.5°	830.6	837.4	852.0	856.3	858.3	856.3	852.0	837.4	830.6	837.4	852.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	672.4	682.1	701.6	707.4	705.9	707.4	701.6	682.1	672.4	682.1	701.6
45.5°	622.5	632.7	653.0	660.8	656.9	660.8	653.0	632.7	622.5	632.7	653.0
46°	573.5	585.6	606.9	614.7	608.9	614.7	606.9	585.6	573.5	585.6	606.9
46.5°	528.8	539.5	560.9	568.1	562.8	568.1	560.9	539.5	528.8	539.5	560.9
47°	484.2	494.4	515.2	523.5	517.7	523.5	515.2	494.4	484.2	494.4	515.2
47.5°	441.0	450.7	470.1	479.3	475.0	479.3	470.1	450.7	441.0	450.7	470.1
48°	398.3	408.5	427.4	437.6	434.7	437.6	427.4	408.5	398.3	408.5	427.4
48.5°	357.6	368.7	386.7	397.8	395.4	397.8	386.7	368.7	357.6	368.7	386.7
49°	320.2	330.9	347.4	359.5	360.0	359.5	347.4	330.9	320.2	330.9	347.4
49.5°	285.8	294.0	309.5	323.1	325.1	323.1	309.5	294.0	285.8	294.0	309.5
50°	252.8	260.1	273.2	287.7	290.6	287.7	273.2	260.1	252.8	260.1	273.2
50.5°	221.7	227.5	238.7	253.7	257.1	253.7	238.7	227.5	221.7	227.5	238.7
51°	193.1	198.4	209.1	222.2	225.6	222.2	209.1	198.4	193.1	198.4	209.1
51.5°	167.4	171.7	181.0	192.6	197.9	192.6	181.0	171.7	167.4	171.7	181.0
52°	143.1	147.0	154.8	165.0	170.8	165.0	154.8	147.0	143.1	147.0	154.8
52.5°	122.7	123.7	129.5	139.2	144.6	139.2	129.5	123.7	122.7	123.7	129.5
53°	103.8	103.3	108.2	117.4	121.3	117.4	108.2	103.3	103.8	103.3	108.2
53.5°	85.4	86.4	90.2	98.5	99.9	98.5	90.2	86.4	85.4	86.4	90.2
54°	69.4	70.8	73.3	80.5	80.5	80.5	73.3	70.8	69.4	70.8	73.3
54.5°	55.8	56.8	57.7	64.0	63.6	64.0	57.7	56.8	55.8	56.8	57.7
55°	43.7	43.2	44.2	49.5	51.4	49.5	44.2	43.2	43.7	43.2	44.2
55.5°	32.0	32.0	33.5	36.9	39.8	36.9	33.5	32.0	32.0	32.0	33.5
56°	21.3	22.8	25.2	28.1	30.6	28.1	25.2	22.8	21.3	22.8	25.2
56.5°	14.6	15.0	18.4	19.9	21.8	19.9	18.4	15.0	14.6	15.0	18.4
57°	11.6	10.7	12.1	13.1	13.1	13.1	12.1	10.7	11.6	10.7	12.1
57.5°	9.2	8.2	8.7	9.7	8.7	9.7	8.7	8.2	9.2	8.2	8.7
58°	7.3	6.8	7.3	7.8	6.3	7.8	7.3	6.8	7.3	6.8	7.3
58.5°	4.9	5.3	5.8	6.3	5.3	6.3	5.8	5.3	4.9	5.3	5.8
59°	4.4	4.4	4.4	4.9	4.4	4.9	4.4	4.4	4.4	4.4	4.4
59.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
60°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
60.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
61°	1.9	1.9	1.9	2.4	1.9	2.4	1.9	1.9	1.9	1.9	1.9
61.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.5	1.9	1.9
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
63°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
63.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
64°	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0
64.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
66°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0





TEST NUMBER: P776714

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5
73.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	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: P776714

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-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: P776714

CATALOG NUMBER: HCDJBL4050CSD-HCD6TRMB-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2524.3	2524.3	2524.3	2524.3	2524.3	2524.3
0.5°	2523.8	2524.8	2523.8	2523.8	2523.8	2524.3
1°	2523.4	2524.8	2523.4	2523.4	2523.8	2523.8
1.5°	2522.9	2524.3	2522.9	2522.9	2523.4	2523.4
2°	2522.4	2523.4	2522.4	2522.4	2522.4	2522.9
2.5°	2521.4	2522.9	2521.4	2521.4	2521.4	2521.9
3°	2520.5	2521.9	2520.5	2520.5	2520.5	2520.5
3.5°	2519.0	2520.5	2519.0	2519.5	2519.5	2519.5
4°	2518.0	2519.0	2518.0	2518.0	2518.0	2518.0
4.5°	2516.1	2517.5	2516.1	2516.1	2516.1	2516.1
5°	2514.6	2515.6	2514.6	2514.6	2514.6	2514.6
5.5°	2512.7	2514.1	2512.7	2512.7	2512.7	2512.7
6°	2510.3	2511.7	2510.3	2510.3	2510.3	2510.8
6.5°	2508.3	2509.8	2508.3	2508.3	2507.8	2508.3
7°	2505.9	2506.9	2505.9	2505.4	2505.4	2505.9
7.5°	2503.0	2504.4	2503.0	2503.0	2503.0	2503.0
8°	2500.1	2501.5	2500.1	2500.1	2500.1	2500.1
8.5°	2497.2	2498.6	2497.2	2496.7	2496.7	2497.2
9°	2493.8	2495.2	2493.8	2493.8	2493.8	2493.8
9.5°	2490.4	2491.8	2490.4	2489.9	2489.9	2490.4
10°	2486.5	2488.4	2486.5	2486.0	2486.5	2486.5
10.5°	2482.6	2484.6	2482.6	2482.1	2482.1	2483.1
11°	2478.7	2480.7	2478.7	2477.8	2478.2	2478.7
11.5°	2474.4	2476.3	2474.4	2473.4	2473.4	2474.4
12°	2469.5	2471.9	2469.5	2468.5	2469.0	2469.5
12.5°	2464.7	2467.1	2464.7	2463.2	2463.7	2464.7
13°	2459.3	2462.2	2459.3	2457.9	2458.8	2459.8
13.5°	2454.0	2456.9	2454.0	2452.5	2453.0	2454.0
14°	2448.2	2451.1	2448.2	2446.2	2447.2	2448.6
14.5°	2441.9	2445.3	2441.9	2440.4	2441.4	2442.3
15°	2435.5	2438.9	2435.5	2433.6	2434.6	2436.0
15.5°	2428.8	2432.2	2428.8	2426.8	2427.8	2429.2
16°	2422.0	2425.4	2422.0	2419.5	2421.0	2422.4
16.5°	2414.7	2418.1	2414.7	2412.3	2413.2	2415.2
17°	2406.9	2410.3	2406.9	2404.5	2405.5	2407.4
17.5°	2398.7	2402.6	2398.7	2396.3	2397.7	2399.2
18°	2390.4	2393.8	2390.4	2387.5	2389.0	2390.9
18.5°	2381.7	2385.1	2381.7	2378.8	2380.2	2381.7
19°	2372.5	2375.9	2372.5	2369.6	2371.0	2373.0
19.5°	2362.8	2366.7	2362.8	2359.9	2361.8	2363.3
20°	2353.1	2356.5	2353.1	2350.2	2351.6	2353.6
20.5°	2342.9	2346.3	2342.9	2340.0	2341.4	2342.9
21°	2332.2	2335.1	2332.2	2329.3	2330.8	2332.2

TEST NUMBER: P776714

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2297.3	2300.2	2297.3	2294.8	2295.3	2296.8
23°	2285.1	2287.1	2285.1	2282.2	2282.7	2283.7
23.5°	2272.0	2274.0	2272.0	2269.6	2269.6	2270.1
24°	2258.0	2260.4	2258.0	2256.5	2256.0	2256.5
24.5°	2243.9	2245.8	2243.9	2242.5	2242.0	2242.0
25°	2228.9	2230.8	2228.9	2227.9	2226.9	2226.4
25.5°	2212.4	2214.3	2212.4	2212.4	2210.9	2210.4
26°	2195.4	2197.3	2195.4	2195.4	2193.9	2193.0
26.5°	2177.4	2178.4	2177.4	2178.4	2176.5	2175.0
27°	2158.0	2159.0	2158.0	2159.5	2157.5	2155.6
27.5°	2137.7	2137.7	2137.7	2139.6	2137.7	2135.2
28°	2115.8	2114.4	2115.8	2118.7	2116.3	2113.4
28.5°	2093.0	2090.6	2093.0	2096.4	2094.0	2090.6
29°	2069.2	2065.9	2069.2	2072.6	2070.2	2066.8
29.5°	2044.0	2039.7	2044.0	2047.9	2045.5	2041.6
30°	2016.8	2012.5	2016.8	2021.2	2018.3	2015.4
30.5°	1988.7	1983.9	1988.7	1993.6	1991.1	1988.2
31°	1960.1	1954.7	1960.1	1964.4	1962.0	1959.6
31.5°	1929.0	1924.2	1929.0	1933.9	1931.5	1930.0
32°	1897.0	1893.1	1897.0	1901.9	1899.4	1899.4
32.5°	1863.5	1860.6	1863.5	1868.4	1866.9	1867.4
33°	1829.1	1828.1	1829.1	1833.9	1832.5	1834.4
33.5°	1793.7	1793.2	1793.7	1798.0	1797.6	1800.9
34°	1756.3	1758.7	1756.3	1761.2	1761.2	1765.0
34.5°	1718.0	1722.4	1718.0	1722.8	1723.8	1728.2
35°	1679.7	1684.5	1679.7	1683.1	1685.0	1689.8
35.5°	1640.4	1645.7	1640.4	1642.3	1645.7	1649.6
36°	1599.1	1605.4	1599.1	1600.1	1604.9	1607.9
36.5°	1556.9	1564.2	1556.9	1556.4	1562.2	1564.7
37°	1513.7	1520.5	1513.7	1511.3	1518.1	1519.5
37.5°	1468.6	1474.9	1468.6	1464.2	1472.5	1473.0
38°	1422.0	1428.3	1422.0	1415.7	1424.9	1425.4
38.5°	1374.0	1380.3	1374.0	1365.3	1375.5	1375.9
39°	1325.5	1331.3	1325.5	1314.3	1324.0	1325.5
39.5°	1275.0	1280.8	1275.0	1262.4	1271.1	1273.6
40°	1222.6	1228.9	1222.6	1209.5	1216.8	1218.7
40.5°	1169.7	1175.1	1169.7	1157.1	1162.0	1164.4
41°	1116.9	1121.7	1116.9	1106.2	1107.2	1108.6
41.5°	1064.0	1068.3	1064.0	1055.2	1051.8	1053.3
42°	1010.6	1015.9	1010.6	1004.8	997.5	997.0
42.5°	958.7	963.5	958.7	953.8	943.7	941.2
43°	907.3	910.7	907.3	902.9	890.3	885.4
43.5°	856.3	858.3	856.3	852.0	837.4	830.6



TEST NUMBER: P776714

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	707.4	705.9	707.4	701.6	682.1	672.4
45.5°	660.8	656.9	660.8	653.0	632.7	622.5
46°	614.7	608.9	614.7	606.9	585.6	573.5
46.5°	568.1	562.8	568.1	560.9	539.5	528.8
47°	523.5	517.7	523.5	515.2	494.4	484.2
47.5°	479.3	475.0	479.3	470.1	450.7	441.0
48°	437.6	434.7	437.6	427.4	408.5	398.3
48.5°	397.8	395.4	397.8	386.7	368.7	357.6
49°	359.5	360.0	359.5	347.4	330.9	320.2
49.5°	323.1	325.1	323.1	309.5	294.0	285.8
50°	287.7	290.6	287.7	273.2	260.1	252.8
50.5°	253.7	257.1	253.7	238.7	227.5	221.7
51°	222.2	225.6	222.2	209.1	198.4	193.1
51.5°	192.6	197.9	192.6	181.0	171.7	167.4
52°	165.0	170.8	165.0	154.8	147.0	143.1
52.5°	139.2	144.6	139.2	129.5	123.7	122.7
53°	117.4	121.3	117.4	108.2	103.3	103.8
53.5°	98.5	99.9	98.5	90.2	86.4	85.4
54°	80.5	80.5	80.5	73.3	70.8	69.4
54.5°	64.0	63.6	64.0	57.7	56.8	55.8
55°	49.5	51.4	49.5	44.2	43.2	43.7
55.5°	36.9	39.8	36.9	33.5	32.0	32.0
56°	28.1	30.6	28.1	25.2	22.8	21.3
56.5°	19.9	21.8	19.9	18.4	15.0	14.6
57°	13.1	13.1	13.1	12.1	10.7	11.6
57.5°	9.7	8.7	9.7	8.7	8.2	9.2
58°	7.8	6.3	7.8	7.3	6.8	7.3
58.5°	6.3	5.3	6.3	5.8	5.3	4.9
59°	4.9	4.4	4.9	4.4	4.4	4.4
59.5°	3.4	3.4	3.4	3.4	3.4	3.4
60°	2.9	2.9	2.9	2.9	2.9	2.9
60.5°	2.4	2.4	2.4	2.4	2.4	2.4
61°	2.4	1.9	2.4	1.9	1.9	1.9
61.5°	1.9	1.9	1.9	1.9	1.9	1.9
62°	1.9	1.9	1.9	1.9	1.9	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5
63°	1.5	1.5	1.5	1.5	1.5	1.5
63.5°	1.5	1.5	1.5	1.5	1.5	1.5
64°	1.0	1.5	1.0	1.0	1.0	1.0
64.5°	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	1.0	1.0	1.0	1.0	1.0	1.0
66°	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P776714

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	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
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.0
73.5°	0.5	0.5	0.5	0.5	0.0	0.0
74°	0.0	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: P776714

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-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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Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	2321.0	2319.1	2318.1	2321.0	2324.0	2321.0	2318.1	2319.1	2321.0	2319.1	2318.1
22°	2308.9	2307.9	2306.5	2309.4	2311.8	2309.4	2306.5	2307.9	2308.9	2307.9	2306.5



44°	776.3	785.0	801.0	805.9	806.8	805.9	801.0	785.0	776.3	785.0	801.0
44.5°	723.9	733.1	751.0	756.4	755.9	756.4	751.0	733.1	723.9	733.1	751.0



66.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	1.0



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°	2321.0	2324.0	2321.0	2318.1	2319.1	2321.0
22°	2309.4	2311.8	2309.4	2306.5	2307.9	2308.9



44°	805.9	806.8	805.9	801.0	785.0	776.3
44.5°	756.4	755.9	756.4	751.0	733.1	723.9

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66.5°	1.0	1.0	1.0	1.0	1.0	1.0
67°	1.0	1.0	1.0	1.0	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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Scaled Data Report



(END OF REPORT)