

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: P776738

Luminaire Tested: HCDJBS4050CSD-HCD6TSQMB-5000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B015-HCD6TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS4050CSD-HCD6TSQMB-5000lm-4000K
Description: 6 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

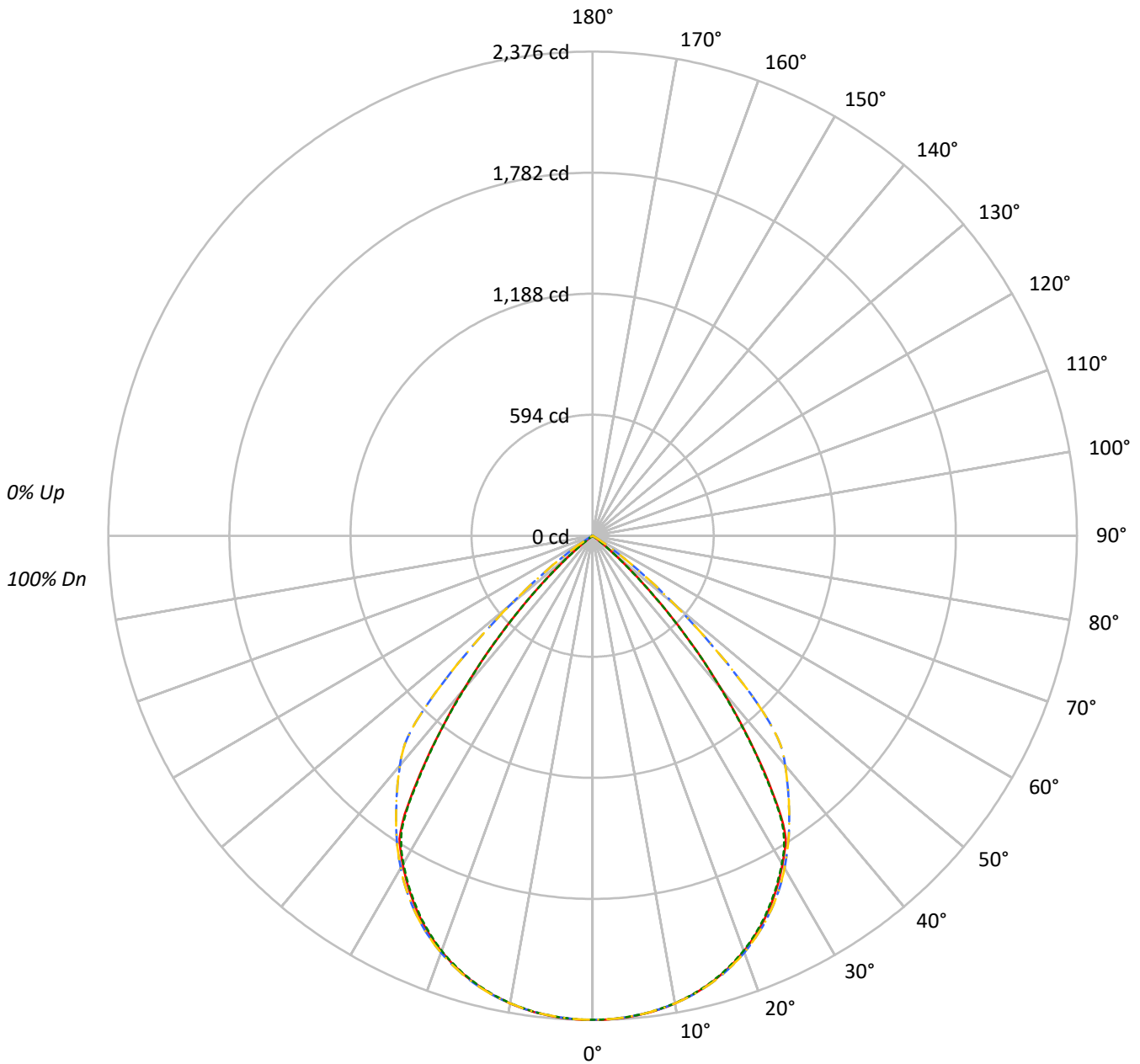
Lumens per Lamp: N/A
Luminaire Lumens: 3427.2 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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



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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	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77					77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	74	71	70					70			
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64					64			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	102261	102261	102261	102261
5°	102216	102177	102216	102177
10°	101872	101810	101872	101810
15°	101006	100921	101006	100921
20°	99399	99267	99399	99267
25°	96671	96420	96671	96420
30°	92607	92318	92607	92318
35°	81055	80524	81055	80524
40°	55345	54997	55345	54997
45°	28813	28844	28813	28844
50°	8400	8299	8400	8299
55°	248	323	248	323
60°	86	86	86	86
65°	51	51	51	51
70°	63	63	63	63
75°	0	83	0	83
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 66626 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	6.6
10°-20°	638.7	18.6
20°-30°	937.5	27.4
30°-40°	994.8	29.0
40°-50°	555.4	16.2
50°-60°	75.1	2.2
60°-70°	0.9	0.0
70°-80°	0.3	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°	1800.8	52.5
0°-40°	2795.6	81.6
0°-60°	3426.0	100.0
0°-90°	3427.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2375	2375	2375	2375	2375	
5°	2365	2364	2365	2364	2365	225
15°	2266	2264	2266	2264	2266	638
25°	2035	2030	2035	2030	2035	935
35°	1542	1532	1542	1532	1542	931
45°	473	474	473	474	473	378
55°	3	4	3	4	3	21
65°	0	0	0	0	0	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°	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1
0.5°	2376.1	2375.1	2375.1	2374.6	2375.1	2374.6	2375.1	2375.1	2376.1	2375.1	2375.1
1°	2375.6	2375.1	2374.6	2374.6	2375.1	2374.6	2374.6	2375.1	2375.6	2375.1	2374.6
1.5°	2375.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2375.1	2374.1	2374.1
2°	2374.1	2373.7	2373.2	2373.2	2373.7	2373.2	2373.2	2373.7	2374.1	2373.7	2373.2
2.5°	2373.2	2372.7	2372.2	2372.2	2372.7	2372.2	2372.2	2372.7	2373.2	2372.7	2372.2
3°	2372.2	2371.3	2371.3	2371.3	2371.3	2371.3	2371.3	2371.3	2372.2	2371.3	2371.3
3.5°	2370.8	2370.3	2369.8	2369.8	2369.8	2369.8	2369.8	2370.3	2370.8	2370.3	2369.8
4°	2369.4	2368.4	2367.9	2367.9	2368.4	2367.9	2367.9	2368.4	2369.4	2368.4	2367.9
4.5°	2367.4	2366.5	2366.5	2366.0	2366.5	2366.0	2366.5	2366.5	2367.4	2366.5	2366.5
5°	2365.0	2364.6	2364.1	2364.1	2364.1	2364.1	2364.1	2364.6	2365.0	2364.6	2364.1
5.5°	2362.7	2362.2	2361.7	2361.7	2361.7	2361.7	2361.7	2362.2	2362.7	2362.2	2361.7
6°	2360.3	2359.8	2359.3	2358.8	2359.3	2358.8	2359.3	2359.8	2360.3	2359.8	2359.3
6.5°	2357.4	2356.9	2356.4	2356.4	2356.4	2356.4	2356.4	2356.9	2357.4	2356.9	2356.4
7°	2354.5	2354.0	2353.6	2353.1	2353.1	2353.1	2353.6	2354.0	2354.5	2354.0	2353.6
7.5°	2351.2	2350.7	2350.2	2349.7	2349.7	2349.7	2350.2	2350.7	2351.2	2350.7	2350.2
8°	2347.3	2346.9	2346.9	2346.4	2346.4	2346.4	2346.9	2346.9	2347.3	2346.9	2346.9
8.5°	2343.5	2343.0	2343.0	2342.6	2342.1	2342.6	2343.0	2343.0	2343.5	2343.0	2343.0
9°	2339.2	2339.2	2338.7	2338.3	2337.8	2338.3	2338.7	2339.2	2339.2	2339.2	2338.7
9.5°	2334.9	2334.9	2334.4	2333.9	2333.5	2333.9	2334.4	2334.9	2334.9	2334.9	2334.4
10°	2330.1	2330.1	2330.1	2329.2	2328.7	2329.2	2330.1	2330.1	2330.1	2330.1	2330.1
10.5°	2325.3	2325.3	2325.3	2324.4	2323.9	2324.4	2325.3	2325.3	2325.3	2325.3	2325.3
11°	2319.6	2320.1	2320.1	2319.1	2318.2	2319.1	2320.1	2320.1	2319.6	2320.1	2320.1
11.5°	2314.3	2314.8	2314.8	2313.4	2312.4	2313.4	2314.8	2314.8	2314.3	2314.8	2314.8
12°	2308.6	2309.1	2309.1	2307.6	2306.7	2307.6	2309.1	2309.1	2308.6	2309.1	2309.1
12.5°	2302.4	2302.8	2303.3	2301.4	2300.5	2301.4	2303.3	2302.8	2302.4	2302.8	2303.3
13°	2295.7	2296.6	2297.1	2295.2	2293.8	2295.2	2297.1	2296.6	2295.7	2296.6	2297.1
13.5°	2289.0	2289.9	2290.4	2288.5	2287.1	2288.5	2290.4	2289.9	2289.0	2289.9	2290.4
14°	2281.3	2282.8	2283.7	2281.3	2279.9	2281.3	2283.7	2282.8	2281.3	2282.8	2283.7
14.5°	2274.1	2275.6	2276.5	2274.1	2272.2	2274.1	2276.5	2275.6	2274.1	2275.6	2276.5
15°	2266.0	2267.9	2268.9	2266.5	2264.1	2266.5	2268.9	2267.9	2266.0	2267.9	2268.9
15.5°	2258.3	2259.8	2261.2	2258.3	2256.0	2258.3	2261.2	2259.8	2258.3	2259.8	2261.2
16°	2249.7	2251.7	2253.1	2250.2	2247.3	2250.2	2253.1	2251.7	2249.7	2251.7	2253.1
16.5°	2241.1	2243.0	2244.5	2241.6	2238.7	2241.6	2244.5	2243.0	2241.1	2243.0	2244.5
17°	2231.6	2234.4	2235.9	2232.5	2229.2	2232.5	2235.9	2234.4	2231.6	2234.4	2235.9
17.5°	2222.5	2224.9	2226.8	2223.4	2219.6	2223.4	2226.8	2224.9	2222.5	2224.9	2226.8
18°	2212.4	2215.3	2217.2	2213.4	2209.5	2213.4	2217.2	2215.3	2212.4	2215.3	2217.2
18.5°	2202.4	2205.7	2207.6	2203.8	2199.5	2203.8	2207.6	2205.7	2202.4	2205.7	2207.6
19°	2191.8	2195.2	2197.6	2192.8	2188.5	2192.8	2197.6	2195.2	2191.8	2195.2	2197.6
19.5°	2180.8	2184.7	2187.1	2182.3	2178.0	2182.3	2187.1	2184.7	2180.8	2184.7	2187.1
20°	2169.4	2173.7	2176.5	2171.3	2166.5	2171.3	2176.5	2173.7	2169.4	2173.7	2176.5
20.5°	2157.9	2162.7	2165.5	2159.8	2154.5	2159.8	2165.5	2162.7	2157.9	2162.7	2165.5
21°	2145.9	2150.7	2154.0	2148.3	2142.1	2148.3	2154.0	2150.7	2145.9	2150.7	2154.0



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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°	2107.2	2113.4	2117.2	2110.5	2102.8	2110.5	2117.2	2113.4	2107.2	2113.4	2117.2
23°	2093.8	2100.0	2104.3	2097.1	2089.0	2097.1	2104.3	2100.0	2093.8	2100.0	2104.3
23.5°	2079.9	2086.6	2091.4	2083.2	2074.6	2083.2	2091.4	2086.6	2079.9	2086.6	2091.4
24°	2065.1	2072.7	2077.5	2068.9	2060.3	2068.9	2077.5	2072.7	2065.1	2072.7	2077.5
24.5°	2050.2	2057.9	2063.6	2054.5	2045.4	2054.5	2063.6	2057.9	2050.2	2057.9	2063.6
25°	2034.9	2043.0	2048.8	2039.2	2029.6	2039.2	2048.8	2043.0	2034.9	2043.0	2048.8
25.5°	2019.6	2027.7	2034.4	2023.9	2013.9	2023.9	2034.4	2027.7	2019.6	2027.7	2034.4
26°	2003.8	2012.4	2019.1	2008.6	1997.6	2008.6	2019.1	2012.4	2003.8	2012.4	2019.1
26.5°	1987.5	1996.2	2003.3	1992.3	1981.3	1992.3	2003.3	1996.2	1987.5	1996.2	2003.3
27°	1970.3	1980.4	1987.5	1976.1	1964.6	1976.1	1987.5	1980.4	1970.3	1980.4	1987.5
27.5°	1953.1	1963.6	1971.3	1958.8	1947.8	1958.8	1971.3	1963.6	1953.1	1963.6	1971.3
28°	1935.9	1946.4	1954.5	1942.1	1929.6	1942.1	1954.5	1946.4	1935.9	1946.4	1954.5
28.5°	1918.2	1929.2	1937.3	1924.9	1911.9	1924.9	1937.3	1929.2	1918.2	1929.2	1937.3
29°	1900.0	1911.9	1919.6	1907.2	1893.8	1907.2	1919.6	1911.9	1900.0	1911.9	1919.6
29.5°	1881.8	1893.8	1901.9	1889.5	1875.6	1889.5	1901.9	1893.8	1881.8	1893.8	1901.9
30°	1862.7	1875.6	1883.2	1871.3	1856.9	1871.3	1883.2	1875.6	1862.7	1875.6	1883.2
30.5°	1844.0	1857.4	1864.6	1853.1	1837.8	1853.1	1864.6	1857.4	1844.0	1857.4	1864.6
31°	1824.4	1838.7	1845.4	1834.4	1818.2	1834.4	1845.4	1838.7	1824.4	1838.7	1845.4
31.5°	1804.8	1820.1	1825.8	1815.3	1798.1	1815.3	1825.8	1820.1	1804.8	1820.1	1825.8
32°	1784.7	1800.5	1806.2	1796.2	1772.7	1796.2	1806.2	1800.5	1784.7	1800.5	1806.2
32.5°	1763.6	1780.8	1786.1	1776.5	1746.9	1776.5	1786.1	1780.8	1763.6	1780.8	1786.1
33°	1729.6	1761.2	1765.5	1756.9	1718.6	1756.9	1765.5	1761.2	1729.6	1761.2	1765.5
33.5°	1692.8	1741.6	1745.0	1736.8	1680.4	1736.8	1745.0	1741.6	1692.8	1741.6	1745.0
34°	1647.8	1721.5	1723.9	1712.4	1637.8	1712.4	1723.9	1721.5	1647.8	1721.5	1723.9
34.5°	1595.7	1700.0	1702.9	1685.6	1587.1	1685.6	1702.9	1700.0	1595.7	1700.0	1702.9
35°	1542.1	1667.9	1681.8	1658.4	1532.0	1658.4	1681.8	1667.9	1542.1	1667.9	1681.8
35.5°	1488.5	1636.3	1660.7	1623.9	1476.5	1623.9	1660.7	1636.3	1488.5	1636.3	1660.7
36°	1433.0	1593.8	1639.2	1585.6	1421.5	1585.6	1639.2	1593.8	1433.0	1593.8	1639.2
36.5°	1377.0	1548.8	1618.2	1539.2	1367.4	1539.2	1618.2	1548.8	1377.0	1548.8	1618.2
37°	1320.1	1497.6	1597.1	1489.9	1311.9	1489.9	1597.1	1497.6	1320.1	1497.6	1597.1
37.5°	1265.1	1446.4	1575.6	1437.8	1257.4	1437.8	1575.6	1446.4	1265.1	1446.4	1575.6
38°	1207.6	1393.8	1554.5	1384.7	1202.4	1384.7	1554.5	1393.8	1207.6	1393.8	1554.5
38.5°	1152.1	1341.1	1533.0	1332.5	1146.9	1332.5	1533.0	1341.1	1152.1	1341.1	1533.0
39°	1096.6	1287.5	1512.4	1280.8	1090.4	1280.8	1512.4	1287.5	1096.6	1287.5	1512.4
39.5°	1041.1	1234.9	1491.4	1229.2	1034.4	1229.2	1491.4	1234.9	1041.1	1234.9	1491.4
40°	984.7	1181.3	1470.3	1177.0	978.5	1177.0	1470.3	1181.3	984.7	1181.3	1470.3
40.5°	929.7	1128.7	1449.3	1124.4	923.9	1124.4	1449.3	1128.7	929.7	1128.7	1449.3
41°	876.1	1076.1	1427.7	1072.2	869.8	1072.2	1427.7	1076.1	876.1	1076.1	1427.7
41.5°	822.5	1023.4	1403.8	1019.1	818.2	1019.1	1403.8	1023.4	822.5	1023.4	1403.8
42°	768.9	970.8	1377.0	966.5	766.0	966.5	1377.0	970.8	768.9	970.8	1377.0
42.5°	717.7	919.1	1342.1	914.3	714.3	914.3	1342.1	919.1	717.7	919.1	1342.1
43°	666.5	867.0	1302.4	863.1	664.1	863.1	1302.4	867.0	666.5	867.0	1302.4
43.5°	616.7	816.3	1259.8	812.9	613.9	812.9	1259.8	816.3	616.7	816.3	1259.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	473.2	668.4	1094.2	666.5	473.7	666.5	1094.2	668.4	473.2	668.4	1094.2
45.5°	430.1	620.6	1032.0	619.1	430.1	619.1	1032.0	620.6	430.1	620.6	1032.0
46°	388.0	573.7	970.3	572.2	388.0	572.2	970.3	573.7	388.0	573.7	970.3
46.5°	346.4	527.7	909.6	526.3	345.5	526.3	909.6	527.7	346.4	527.7	909.6
47°	305.7	482.8	848.8	482.8	304.3	482.8	848.8	482.8	305.7	482.8	848.8
47.5°	266.5	440.2	790.9	440.7	267.0	440.7	790.9	440.2	266.5	440.2	790.9
48°	232.1	399.0	734.9	399.0	232.1	399.0	734.9	399.0	232.1	399.0	734.9
48.5°	200.5	358.8	680.9	358.4	200.0	358.4	680.9	358.8	200.5	358.8	680.9
49°	174.2	319.1	628.2	318.7	169.9	318.7	628.2	319.1	174.2	319.1	628.2
49.5°	149.3	280.9	577.0	280.9	146.4	280.9	577.0	280.9	149.3	280.9	577.0
50°	125.4	245.9	527.3	245.9	123.9	245.9	527.3	245.9	125.4	245.9	527.3
50.5°	103.3	215.3	479.4	212.4	102.4	212.4	479.4	215.3	103.3	215.3	479.4
51°	84.7	186.1	436.4	181.8	84.7	181.8	436.4	186.1	84.7	186.1	436.4
51.5°	67.9	160.8	394.3	156.9	66.5	156.9	394.3	160.8	67.9	160.8	394.3
52°	54.1	135.9	353.1	133.0	51.2	133.0	353.1	135.9	54.1	135.9	353.1
52.5°	40.7	112.9	312.9	110.0	36.4	110.0	312.9	112.9	40.7	112.9	312.9
53°	27.3	92.3	275.6	90.4	22.5	90.4	275.6	92.3	27.3	92.3	275.6
53.5°	18.2	73.7	241.6	70.8	13.4	70.8	241.6	73.7	18.2	73.7	241.6
54°	8.6	59.3	210.0	55.0	7.7	55.0	210.0	59.3	8.6	59.3	210.0
54.5°	5.3	45.5	182.8	40.7	5.7	40.7	182.8	45.5	5.3	45.5	182.8
55°	3.3	31.6	156.9	26.8	4.3	26.8	156.9	31.6	3.3	31.6	156.9
55.5°	1.4	20.1	133.0	18.2	2.9	18.2	133.0	20.1	1.4	20.1	133.0
56°	1.0	8.6	111.0	13.4	1.4	13.4	111.0	8.6	1.0	8.6	111.0
56.5°	1.0	4.3	90.0	8.1	1.0	8.1	90.0	4.3	1.0	4.3	90.0
57°	1.0	2.4	73.2	4.3	1.0	4.3	73.2	2.4	1.0	2.4	73.2
57.5°	1.0	1.9	58.9	1.9	1.0	1.9	58.9	1.9	1.0	1.9	58.9
58°	1.0	1.0	47.4	1.0	1.0	1.0	47.4	1.0	1.0	1.0	47.4
58.5°	1.0	1.0	36.8	1.0	1.0	1.0	36.8	1.0	1.0	1.0	36.8
59°	1.0	1.0	27.3	1.0	1.0	1.0	27.3	1.0	1.0	1.0	27.3
59.5°	1.0	1.0	20.1	1.0	1.0	1.0	20.1	1.0	1.0	1.0	20.1
60°	1.0	1.0	13.9	1.0	1.0	1.0	13.9	1.0	1.0	1.0	13.9
60.5°	1.0	1.0	9.6	1.0	1.0	1.0	9.6	1.0	1.0	1.0	9.6
61°	1.0	1.0	6.2	1.0	1.0	1.0	6.2	1.0	1.0	1.0	6.2
61.5°	1.0	1.0	3.8	1.0	1.0	1.0	3.8	1.0	1.0	1.0	3.8
62°	0.5	0.5	1.9	1.0	1.0	1.0	1.9	0.5	0.5	0.5	1.9
62.5°	0.5	0.5	1.4	0.5	0.5	0.5	1.4	0.5	0.5	0.5	1.4
63°	0.5	0.5	1.0	0.5	0.5	0.5	1.0	0.5	0.5	0.5	1.0
63.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	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	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776738

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-4000K

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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.0	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.0
75°	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.5	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: P776738
CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-4000K

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: P776738

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1
0.5°	2374.6	2375.1	2374.6	2375.1	2375.1	2376.1
1°	2374.6	2375.1	2374.6	2374.6	2375.1	2375.6
1.5°	2374.1	2374.1	2374.1	2374.1	2374.1	2375.1
2°	2373.2	2373.7	2373.2	2373.2	2373.7	2374.1
2.5°	2372.2	2372.7	2372.2	2372.2	2372.7	2373.2
3°	2371.3	2371.3	2371.3	2371.3	2371.3	2372.2
3.5°	2369.8	2369.8	2369.8	2369.8	2370.3	2370.8
4°	2367.9	2368.4	2367.9	2367.9	2368.4	2369.4
4.5°	2366.0	2366.5	2366.0	2366.5	2366.5	2367.4
5°	2364.1	2364.1	2364.1	2364.1	2364.6	2365.0
5.5°	2361.7	2361.7	2361.7	2361.7	2362.2	2362.7
6°	2358.8	2359.3	2358.8	2359.3	2359.8	2360.3
6.5°	2356.4	2356.4	2356.4	2356.4	2356.9	2357.4
7°	2353.1	2353.1	2353.1	2353.6	2354.0	2354.5
7.5°	2349.7	2349.7	2349.7	2350.2	2350.7	2351.2
8°	2346.4	2346.4	2346.4	2346.9	2346.9	2347.3
8.5°	2342.6	2342.1	2342.6	2343.0	2343.0	2343.5
9°	2338.3	2337.8	2338.3	2338.7	2339.2	2339.2
9.5°	2333.9	2333.5	2333.9	2334.4	2334.9	2334.9
10°	2329.2	2328.7	2329.2	2330.1	2330.1	2330.1
10.5°	2324.4	2323.9	2324.4	2325.3	2325.3	2325.3
11°	2319.1	2318.2	2319.1	2320.1	2320.1	2319.6
11.5°	2313.4	2312.4	2313.4	2314.8	2314.8	2314.3
12°	2307.6	2306.7	2307.6	2309.1	2309.1	2308.6
12.5°	2301.4	2300.5	2301.4	2303.3	2302.8	2302.4
13°	2295.2	2293.8	2295.2	2297.1	2296.6	2295.7
13.5°	2288.5	2287.1	2288.5	2290.4	2289.9	2289.0
14°	2281.3	2279.9	2281.3	2283.7	2282.8	2281.3
14.5°	2274.1	2272.2	2274.1	2276.5	2275.6	2274.1
15°	2266.5	2264.1	2266.5	2268.9	2267.9	2266.0
15.5°	2258.3	2256.0	2258.3	2261.2	2259.8	2258.3
16°	2250.2	2247.3	2250.2	2253.1	2251.7	2249.7
16.5°	2241.6	2238.7	2241.6	2244.5	2243.0	2241.1
17°	2232.5	2229.2	2232.5	2235.9	2234.4	2231.6
17.5°	2223.4	2219.6	2223.4	2226.8	2224.9	2222.5
18°	2213.4	2209.5	2213.4	2217.2	2215.3	2212.4
18.5°	2203.8	2199.5	2203.8	2207.6	2205.7	2202.4
19°	2192.8	2188.5	2192.8	2197.6	2195.2	2191.8
19.5°	2182.3	2178.0	2182.3	2187.1	2184.7	2180.8
20°	2171.3	2166.5	2171.3	2176.5	2173.7	2169.4
20.5°	2159.8	2154.5	2159.8	2165.5	2162.7	2157.9
21°	2148.3	2142.1	2148.3	2154.0	2150.7	2145.9

TEST NUMBER: P776738

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2110.5	2102.8	2110.5	2117.2	2113.4	2107.2
23°	2097.1	2089.0	2097.1	2104.3	2100.0	2093.8
23.5°	2083.2	2074.6	2083.2	2091.4	2086.6	2079.9
24°	2068.9	2060.3	2068.9	2077.5	2072.7	2065.1
24.5°	2054.5	2045.4	2054.5	2063.6	2057.9	2050.2
25°	2039.2	2029.6	2039.2	2048.8	2043.0	2034.9
25.5°	2023.9	2013.9	2023.9	2034.4	2027.7	2019.6
26°	2008.6	1997.6	2008.6	2019.1	2012.4	2003.8
26.5°	1992.3	1981.3	1992.3	2003.3	1996.2	1987.5
27°	1976.1	1964.6	1976.1	1987.5	1980.4	1970.3
27.5°	1958.8	1947.8	1958.8	1971.3	1963.6	1953.1
28°	1942.1	1929.6	1942.1	1954.5	1946.4	1935.9
28.5°	1924.9	1911.9	1924.9	1937.3	1929.2	1918.2
29°	1907.2	1893.8	1907.2	1919.6	1911.9	1900.0
29.5°	1889.5	1875.6	1889.5	1901.9	1893.8	1881.8
30°	1871.3	1856.9	1871.3	1883.2	1875.6	1862.7
30.5°	1853.1	1837.8	1853.1	1864.6	1857.4	1844.0
31°	1834.4	1818.2	1834.4	1845.4	1838.7	1824.4
31.5°	1815.3	1798.1	1815.3	1825.8	1820.1	1804.8
32°	1796.2	1772.7	1796.2	1806.2	1800.5	1784.7
32.5°	1776.5	1746.9	1776.5	1786.1	1780.8	1763.6
33°	1756.9	1718.6	1756.9	1765.5	1761.2	1729.6
33.5°	1736.8	1680.4	1736.8	1745.0	1741.6	1692.8
34°	1712.4	1637.8	1712.4	1723.9	1721.5	1647.8
34.5°	1685.6	1587.1	1685.6	1702.9	1700.0	1595.7
35°	1658.4	1532.0	1658.4	1681.8	1667.9	1542.1
35.5°	1623.9	1476.5	1623.9	1660.7	1636.3	1488.5
36°	1585.6	1421.5	1585.6	1639.2	1593.8	1433.0
36.5°	1539.2	1367.4	1539.2	1618.2	1548.8	1377.0
37°	1489.9	1311.9	1489.9	1597.1	1497.6	1320.1
37.5°	1437.8	1257.4	1437.8	1575.6	1446.4	1265.1
38°	1384.7	1202.4	1384.7	1554.5	1393.8	1207.6
38.5°	1332.5	1146.9	1332.5	1533.0	1341.1	1152.1
39°	1280.8	1090.4	1280.8	1512.4	1287.5	1096.6
39.5°	1229.2	1034.4	1229.2	1491.4	1234.9	1041.1
40°	1177.0	978.5	1177.0	1470.3	1181.3	984.7
40.5°	1124.4	923.9	1124.4	1449.3	1128.7	929.7
41°	1072.2	869.8	1072.2	1427.7	1076.1	876.1
41.5°	1019.1	818.2	1019.1	1403.8	1023.4	822.5
42°	966.5	766.0	966.5	1377.0	970.8	768.9
42.5°	914.3	714.3	914.3	1342.1	919.1	717.7
43°	863.1	664.1	863.1	1302.4	867.0	666.5
43.5°	812.9	613.9	812.9	1259.8	816.3	616.7



TEST NUMBER: P776738

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	666.5	473.7	666.5	1094.2	668.4	473.2
45.5°	619.1	430.1	619.1	1032.0	620.6	430.1
46°	572.2	388.0	572.2	970.3	573.7	388.0
46.5°	526.3	345.5	526.3	909.6	527.7	346.4
47°	482.8	304.3	482.8	848.8	482.8	305.7
47.5°	440.7	267.0	440.7	790.9	440.2	266.5
48°	399.0	232.1	399.0	734.9	399.0	232.1
48.5°	358.4	200.0	358.4	680.9	358.8	200.5
49°	318.7	169.9	318.7	628.2	319.1	174.2
49.5°	280.9	146.4	280.9	577.0	280.9	149.3
50°	245.9	123.9	245.9	527.3	245.9	125.4
50.5°	212.4	102.4	212.4	479.4	215.3	103.3
51°	181.8	84.7	181.8	436.4	186.1	84.7
51.5°	156.9	66.5	156.9	394.3	160.8	67.9
52°	133.0	51.2	133.0	353.1	135.9	54.1
52.5°	110.0	36.4	110.0	312.9	112.9	40.7
53°	90.4	22.5	90.4	275.6	92.3	27.3
53.5°	70.8	13.4	70.8	241.6	73.7	18.2
54°	55.0	7.7	55.0	210.0	59.3	8.6
54.5°	40.7	5.7	40.7	182.8	45.5	5.3
55°	26.8	4.3	26.8	156.9	31.6	3.3
55.5°	18.2	2.9	18.2	133.0	20.1	1.4
56°	13.4	1.4	13.4	111.0	8.6	1.0
56.5°	8.1	1.0	8.1	90.0	4.3	1.0
57°	4.3	1.0	4.3	73.2	2.4	1.0
57.5°	1.9	1.0	1.9	58.9	1.9	1.0
58°	1.0	1.0	1.0	47.4	1.0	1.0
58.5°	1.0	1.0	1.0	36.8	1.0	1.0
59°	1.0	1.0	1.0	27.3	1.0	1.0
59.5°	1.0	1.0	1.0	20.1	1.0	1.0
60°	1.0	1.0	1.0	13.9	1.0	1.0
60.5°	1.0	1.0	1.0	9.6	1.0	1.0
61°	1.0	1.0	1.0	6.2	1.0	1.0
61.5°	1.0	1.0	1.0	3.8	1.0	1.0
62°	1.0	1.0	1.0	1.9	0.5	0.5
62.5°	0.5	0.5	0.5	1.4	0.5	0.5
63°	0.5	0.5	0.5	1.0	0.5	0.5
63.5°	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5
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: P776738

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-4000K

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	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.0	0.5	0.5
75°	0.5	0.5	0.5	0.0	0.0	0.0
75.5°	0.5	0.5	0.5	0.0	0.0	0.0
76°	0.0	0.5	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: P776738

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-4000K

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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Signify Classified - Internal
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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	2133.5	2138.7	2142.1	2135.9	2129.2	2135.9	2142.1	2138.7	2133.5	2138.7	2142.1
22°	2120.6	2126.3	2129.6	2123.4	2116.2	2123.4	2129.6	2126.3	2120.6	2126.3	2129.6



44°	567.5	765.5	1208.1	763.1	565.1	763.1	1208.1	765.5	567.5	765.5	1208.1
44.5°	520.1	716.7	1152.1	714.8	518.2	714.8	1152.1	716.7	520.1	716.7	1152.1



66.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.5	0.5	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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Scaled Data Report





21.5°	2135.9	2129.2	2135.9	2142.1	2138.7	2133.5
22°	2123.4	2116.2	2123.4	2129.6	2126.3	2120.6



44°	763.1	565.1	763.1	1208.1	765.5	567.5
44.5°	714.8	518.2	714.8	1152.1	716.7	520.1

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Scaled Data Report



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

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Peachtree City, GA 30269

Scaled Data Report



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)