

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: P776229

Luminaire Tested: HCDJBL3040CSD-HCD42TRMW-3000lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156A001)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS3040CSD-HCD42TRMW-3000lm-5000K
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

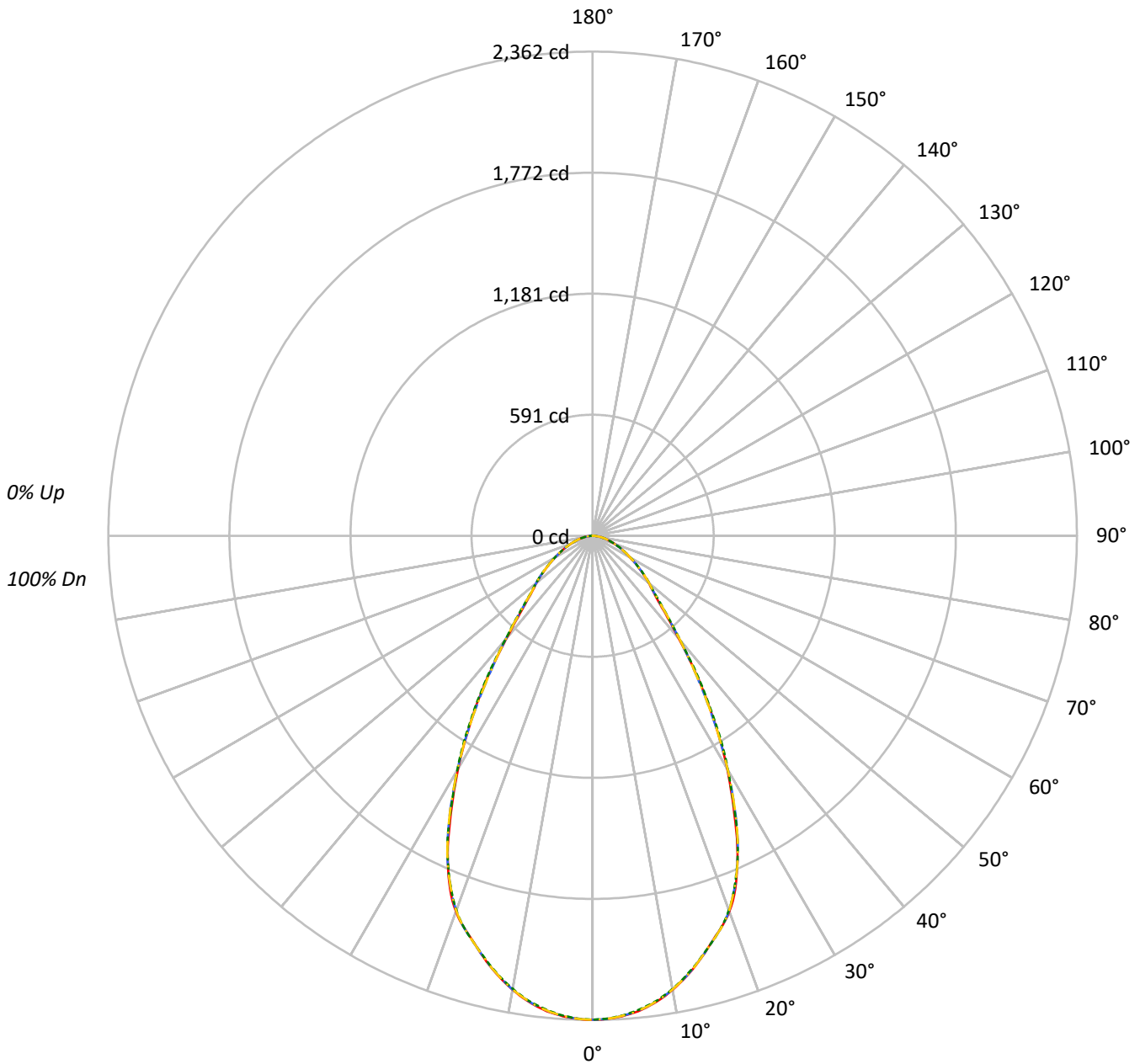
Lumens per Lamp: N/A
Luminaire Lumens: 3048.8 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64								
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53								
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49								
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45								
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42								
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	297144	297144	297144	297144
5°	295045	294413	295045	294413
10°	287428	286776	287428	286776
15°	274715	274389	274715	274389
20°	261210	260273	261210	260273
25°	231840	232590	231840	232590
30°	190745	191748	190745	191748
35°	147980	149578	147980	149578
40°	107475	109348	107475	109348
45°	81372	83401	81372	83401
50°	70072	70640	70072	70640
55°	60909	61611	60909	61611
60°	53234	53713	53234	53713
65°	46812	47169	46812	47169
70°	41322	41543	41322	41543
75°	36274	36274	36274	36274
80°	31381	31164	31381	31164
85°	25125	25125	25125	25125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 83401 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	7.2
10°-20°	592.3	19.4
20°-30°	758.5	24.9
30°-40°	601.0	19.7
40°-50°	368.0	12.1
50°-60°	251.6	8.3
60°-70°	157.5	5.2
70°-80°	79.8	2.6
80°-90°	20.1	0.7
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°	1570.8	51.5
0°-40°	2171.8	71.2
0°-60°	2791.4	91.6
0°-90°	3048.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2361	2361	2361	2361	2361	
5°	2336	2330	2336	2330	2336	220
15°	2108	2106	2108	2106	2108	593
25°	1670	1675	1670	1675	1670	757
35°	963	974	963	974	963	600
45°	457	469	457	469	457	363
55°	278	281	278	281	278	250
65°	157	158	157	158	157	157
75°	75	75	75	75	75	80
85°	17	17	17	17	17	20
90°	0	1	0	1	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°	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1
0.5°	2361.5	2361.1	2360.5	2360.2	2359.2	2360.2	2360.5	2361.1	2361.5	2361.1	2360.5
1°	2360.5	2360.2	2359.9	2359.6	2358.3	2359.6	2359.9	2360.2	2360.5	2360.2	2359.9
1.5°	2359.2	2358.6	2358.6	2358.0	2357.0	2358.0	2358.6	2358.6	2359.2	2358.6	2358.6
2°	2357.3	2357.0	2356.4	2356.1	2354.8	2356.1	2356.4	2357.0	2357.3	2357.0	2356.4
2.5°	2355.1	2354.5	2353.9	2353.6	2352.0	2353.6	2353.9	2354.5	2355.1	2354.5	2353.9
3°	2352.0	2351.3	2350.7	2350.1	2348.5	2350.1	2350.7	2351.3	2352.0	2351.3	2350.7
3.5°	2348.5	2347.9	2346.9	2346.3	2345.3	2346.3	2346.9	2347.9	2348.5	2347.9	2346.9
4°	2344.4	2344.1	2342.8	2342.2	2340.6	2342.2	2342.8	2344.1	2344.4	2344.1	2342.8
4.5°	2340.0	2339.3	2338.1	2337.4	2335.5	2337.4	2338.1	2339.3	2340.0	2339.3	2338.1
5°	2335.5	2334.6	2333.3	2332.7	2330.5	2332.7	2333.3	2334.6	2335.5	2334.6	2333.3
5.5°	2330.8	2328.6	2327.0	2326.4	2324.5	2326.4	2327.0	2328.6	2330.8	2328.6	2327.0
6°	2323.5	2322.2	2320.7	2319.7	2317.2	2319.7	2320.7	2322.2	2323.5	2322.2	2320.7
6.5°	2316.2	2315.3	2313.4	2312.4	2309.9	2312.4	2313.4	2315.3	2316.2	2315.3	2313.4
7°	2308.6	2307.4	2306.4	2304.9	2302.6	2304.9	2306.4	2307.4	2308.6	2307.4	2306.4
7.5°	2300.1	2298.8	2297.6	2297.0	2294.7	2297.0	2297.6	2298.8	2300.1	2298.8	2297.6
8°	2290.9	2290.0	2288.7	2287.8	2286.5	2287.8	2288.7	2290.0	2290.9	2290.0	2288.7
8.5°	2281.5	2280.2	2278.9	2278.0	2276.7	2278.0	2278.9	2280.2	2281.5	2280.2	2278.9
9°	2271.3	2270.4	2268.8	2267.9	2266.6	2267.9	2268.8	2270.4	2271.3	2270.4	2268.8
9.5°	2260.3	2259.6	2258.1	2257.1	2255.8	2257.1	2258.1	2259.6	2260.3	2259.6	2258.1
10°	2249.2	2248.3	2247.0	2245.7	2244.1	2245.7	2247.0	2248.3	2249.2	2248.3	2247.0
10.5°	2236.9	2236.2	2234.7	2233.7	2232.4	2233.7	2234.7	2236.2	2236.9	2236.2	2234.7
11°	2224.5	2223.9	2222.6	2221.4	2219.8	2221.4	2222.6	2223.9	2224.5	2223.9	2222.6
11.5°	2211.6	2210.9	2209.7	2208.4	2207.1	2208.4	2209.7	2210.9	2211.6	2210.9	2209.7
12°	2198.3	2197.7	2196.7	2195.1	2193.9	2195.1	2196.7	2197.7	2198.3	2197.7	2196.7
12.5°	2184.4	2183.7	2182.8	2181.2	2179.6	2181.2	2182.8	2183.7	2184.4	2183.7	2182.8
13°	2170.1	2169.5	2168.6	2167.3	2165.7	2167.3	2168.6	2169.5	2170.1	2169.5	2168.6
13.5°	2155.3	2154.7	2154.0	2152.8	2151.5	2152.8	2154.0	2154.7	2155.3	2154.7	2154.0
14°	2140.1	2139.8	2139.2	2137.9	2136.6	2137.9	2139.2	2139.8	2140.1	2139.8	2139.2
14.5°	2124.3	2124.0	2123.7	2122.4	2121.1	2122.4	2123.7	2124.0	2124.3	2124.0	2123.7
15°	2108.5	2108.5	2107.9	2107.2	2106.0	2107.2	2107.9	2108.5	2108.5	2108.5	2107.9
15.5°	2092.0	2092.0	2092.7	2092.0	2091.4	2092.0	2092.7	2092.0	2092.0	2092.0	2092.7
16°	2076.2	2076.6	2077.5	2077.2	2076.6	2077.2	2077.5	2076.6	2076.2	2076.6	2077.5
16.5°	2060.4	2061.1	2062.3	2062.3	2062.0	2062.3	2062.3	2061.1	2060.4	2061.1	2062.3
17°	2045.6	2046.2	2047.5	2047.1	2047.5	2047.1	2047.5	2046.2	2045.6	2046.2	2047.5
17.5°	2031.0	2031.6	2032.6	2032.3	2032.0	2032.3	2032.6	2031.6	2031.0	2031.6	2032.6
18°	2016.8	2017.1	2017.7	2017.1	2016.5	2017.1	2017.7	2017.1	2016.8	2017.1	2017.7
18.5°	2001.6	2001.6	2001.6	2001.0	2000.0	2001.0	2001.6	2001.6	2001.6	2001.6	2001.6
19°	1986.1	1985.2	1984.5	1983.6	1982.6	1983.6	1984.5	1985.2	1986.1	1985.2	1984.5
19.5°	1969.0	1967.8	1965.9	1965.2	1964.3	1965.2	1965.9	1967.8	1969.0	1967.8	1965.9
20°	1950.4	1948.8	1945.3	1945.6	1943.4	1945.6	1945.3	1948.8	1950.4	1948.8	1945.3
20.5°	1929.8	1927.3	1923.2	1924.5	1921.9	1924.5	1923.2	1927.3	1929.8	1927.3	1923.2
21°	1908.3	1904.5	1899.8	1901.4	1898.2	1901.4	1899.8	1904.5	1908.3	1904.5	1899.8



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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°	1829.6	1825.8	1822.6	1822.3	1820.7	1822.3	1822.6	1825.8	1829.6	1825.8	1822.6
23°	1799.6	1796.4	1795.8	1793.5	1792.9	1793.5	1795.8	1796.4	1799.6	1796.4	1795.8
23.5°	1768.9	1766.0	1767.6	1763.8	1765.4	1763.8	1767.6	1766.0	1768.9	1766.0	1767.6
24°	1736.9	1734.7	1738.5	1733.5	1736.3	1733.5	1738.5	1734.7	1736.9	1734.7	1738.5
24.5°	1704.1	1703.1	1707.9	1702.8	1706.6	1702.8	1707.9	1703.1	1704.1	1703.1	1707.9
25°	1669.6	1670.2	1675.9	1672.1	1675.0	1672.1	1675.9	1670.2	1669.6	1670.2	1675.9
25.5°	1633.9	1638.0	1643.0	1641.4	1642.1	1641.4	1643.0	1638.0	1633.9	1638.0	1643.0
26°	1597.2	1604.4	1609.2	1609.5	1607.0	1609.5	1609.2	1604.4	1597.2	1604.4	1609.2
26.5°	1559.5	1570.3	1574.1	1576.3	1570.6	1576.3	1574.1	1570.3	1559.5	1570.3	1574.1
27°	1522.9	1534.9	1538.7	1542.2	1533.6	1542.2	1538.7	1534.9	1522.9	1534.9	1538.7
27.5°	1486.8	1498.2	1502.6	1507.1	1496.0	1507.1	1502.6	1498.2	1486.8	1498.2	1502.6
28°	1450.8	1461.5	1465.9	1470.4	1458.4	1470.4	1465.9	1461.5	1450.8	1461.5	1465.9
28.5°	1415.7	1424.2	1429.3	1433.1	1422.0	1433.1	1429.3	1424.2	1415.7	1424.2	1429.3
29°	1380.9	1386.6	1392.6	1395.1	1387.5	1395.1	1392.6	1386.6	1380.9	1386.6	1392.6
29.5°	1346.7	1349.6	1356.2	1357.2	1353.7	1357.2	1356.2	1349.6	1346.7	1349.6	1356.2
30°	1312.6	1311.6	1318.9	1319.2	1319.5	1319.2	1318.9	1311.6	1312.6	1311.6	1318.9
30.5°	1277.2	1275.0	1281.9	1282.5	1287.3	1282.5	1281.9	1275.0	1277.2	1275.0	1281.9
31°	1242.1	1237.3	1244.6	1245.9	1253.1	1245.9	1244.6	1237.3	1242.1	1237.3	1244.6
31.5°	1206.0	1201.3	1207.3	1209.5	1218.7	1209.5	1207.3	1201.3	1206.0	1201.3	1207.3
32°	1169.3	1164.9	1170.3	1173.8	1183.3	1173.8	1170.3	1164.9	1169.3	1164.9	1170.3
32.5°	1133.9	1130.1	1133.9	1138.4	1147.8	1138.4	1133.9	1130.1	1133.9	1130.1	1133.9
33°	1098.2	1095.4	1096.6	1102.9	1111.8	1102.9	1096.6	1095.4	1098.2	1095.4	1096.6
33.5°	1066.3	1060.6	1059.6	1067.5	1075.4	1067.5	1059.6	1060.6	1066.3	1060.6	1059.6
34°	1031.8	1025.8	1022.9	1032.7	1041.0	1032.7	1022.9	1025.8	1031.8	1025.8	1022.9
34.5°	997.6	991.3	987.2	997.6	1006.8	997.6	987.2	991.3	997.6	991.3	987.2
35°	963.2	957.8	953.4	963.8	973.6	963.8	953.4	957.8	963.2	957.8	953.4
35.5°	929.7	924.6	919.9	930.3	941.0	930.3	919.9	924.6	929.7	924.6	919.9
36°	896.8	891.4	887.3	898.0	909.1	898.0	887.3	891.4	896.8	891.4	887.3
36.5°	864.2	859.5	855.7	866.1	876.5	866.1	855.7	859.5	864.2	859.5	855.7
37°	831.3	827.8	824.7	835.1	844.3	835.1	824.7	827.8	831.3	827.8	824.7
37.5°	799.4	797.2	795.0	805.4	812.0	805.4	795.0	797.2	799.4	797.2	795.0
38°	767.8	767.4	766.5	776.3	780.1	776.3	766.5	767.4	767.8	767.4	766.5
38.5°	738.0	738.7	739.3	747.8	749.4	747.8	739.3	738.7	738.0	738.7	739.3
39°	709.3	710.8	712.1	720.3	720.0	720.3	712.1	710.8	709.3	710.8	712.1
39.5°	681.1	684.0	686.2	693.1	692.2	693.1	686.2	684.0	681.1	684.0	686.2
40°	654.2	657.4	661.2	666.9	665.6	666.9	661.2	657.4	654.2	657.4	661.2
40.5°	628.9	632.1	637.2	641.3	641.0	641.3	637.2	632.1	628.9	632.1	637.2
41°	604.6	607.8	614.4	617.2	618.2	617.2	614.4	607.8	604.6	607.8	614.4
41.5°	581.5	585.0	592.6	594.2	597.0	594.2	592.6	585.0	581.5	585.0	592.6
42°	560.0	563.5	571.7	572.7	576.5	572.7	571.7	563.5	560.0	563.5	571.7
42.5°	539.8	543.2	552.1	552.4	556.5	552.4	552.1	543.2	539.8	543.2	552.1
43°	520.5	524.3	532.8	533.4	537.2	533.4	532.8	524.3	520.5	524.3	532.8
43.5°	502.8	506.6	514.8	515.1	518.6	515.1	514.8	506.6	502.8	506.6	514.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	457.2	460.4	465.5	467.0	468.6	467.0	465.5	460.4	457.2	460.4	465.5
45.5°	444.0	446.5	451.2	452.8	454.1	452.8	451.2	446.5	444.0	446.5	451.2
46°	431.3	433.5	437.6	439.8	440.5	439.8	437.6	433.5	431.3	433.5	437.6
46.5°	419.6	421.5	424.7	427.2	427.8	427.2	424.7	421.5	419.6	421.5	424.7
47°	408.5	409.8	413.0	415.5	416.4	415.5	413.0	409.8	408.5	409.8	413.0
47.5°	398.1	399.1	401.9	404.7	406.0	404.7	401.9	399.1	398.1	399.1	401.9
48°	388.3	389.6	392.4	394.9	396.2	394.9	392.4	389.6	388.3	389.6	392.4
48.5°	380.4	381.0	383.2	385.8	386.7	385.8	383.2	381.0	380.4	381.0	383.2
49°	372.8	373.1	375.0	376.9	377.9	376.9	375.0	373.1	372.8	373.1	375.0
49.5°	365.5	365.9	367.1	368.7	369.0	368.7	367.1	365.9	365.5	365.9	367.1
50°	357.9	358.3	359.2	360.5	360.8	360.5	359.2	358.3	357.9	358.3	359.2
50.5°	350.4	350.7	351.3	352.6	352.6	352.6	351.3	350.7	350.4	350.7	351.3
51°	341.8	342.5	343.4	344.7	344.7	344.7	343.4	342.5	341.8	342.5	343.4
51.5°	333.6	333.9	335.2	336.8	337.1	336.8	335.2	333.9	333.6	333.9	335.2
52°	325.1	325.7	327.0	328.5	328.9	328.5	327.0	325.7	325.1	325.7	327.0
52.5°	316.5	317.2	318.7	320.0	320.6	320.0	318.7	317.2	316.5	317.2	318.7
53°	308.6	309.3	310.5	311.8	312.4	311.8	310.5	309.3	308.6	309.3	310.5
53.5°	300.4	301.0	302.3	303.9	304.5	303.9	302.3	301.0	300.4	301.0	302.3
54°	292.8	293.1	294.4	295.7	296.3	295.7	294.4	293.1	292.8	293.1	294.4
54.5°	285.2	285.5	286.8	288.1	288.7	288.1	286.8	285.5	285.2	285.5	286.8
55°	277.6	278.3	279.5	280.5	280.8	280.5	279.5	278.3	277.6	278.3	279.5
55.5°	270.4	271.0	272.3	273.2	273.5	273.2	272.3	271.0	270.4	271.0	272.3
56°	263.4	264.0	265.0	265.9	266.2	265.9	265.0	264.0	263.4	264.0	265.0
56.5°	256.4	257.1	258.0	259.0	259.3	259.0	258.0	257.1	256.4	257.1	258.0
57°	249.5	250.1	251.1	252.0	252.3	252.0	251.1	250.1	249.5	250.1	251.1
57.5°	242.5	243.5	244.4	245.1	245.7	245.1	244.4	243.5	242.5	243.5	244.4
58°	236.5	236.8	237.8	238.7	239.1	238.7	237.8	236.8	236.5	236.8	237.8
58.5°	230.2	230.5	231.5	232.1	232.4	232.1	231.5	230.5	230.2	230.5	231.5
59°	223.9	224.2	224.8	225.5	226.1	225.5	224.8	224.2	223.9	224.2	224.8
59.5°	217.6	217.9	218.5	219.4	219.8	219.4	218.5	217.9	217.6	217.9	218.5
60°	211.5	211.9	212.5	213.1	213.4	213.1	212.5	211.9	211.5	211.9	212.5
60.5°	205.5	205.9	206.5	207.1	207.4	207.1	206.5	205.9	205.5	205.9	206.5
61°	199.8	200.2	200.8	201.4	201.7	201.4	200.8	200.2	199.8	200.2	200.8
61.5°	194.2	194.5	195.1	195.7	196.1	195.7	195.1	194.5	194.2	194.5	195.1
62°	188.8	188.8	189.4	190.0	190.0	190.0	189.4	188.8	188.8	188.8	189.4
62.5°	183.1	183.4	183.7	184.4	184.7	184.4	183.7	183.4	183.1	183.4	183.7
63°	177.7	178.0	178.3	179.0	179.0	179.0	178.3	178.0	177.7	178.0	178.3
63.5°	172.3	172.7	173.0	173.6	173.9	173.6	173.0	172.7	172.3	172.7	173.0
64°	167.3	167.6	167.9	168.2	168.5	168.2	167.9	167.6	167.3	167.6	167.9
64.5°	162.2	162.5	162.8	163.2	163.5	163.2	162.8	162.5	162.2	162.5	162.8
65°	157.2	157.5	157.8	158.1	158.4	158.1	157.8	157.5	157.2	157.5	157.8
65.5°	152.4	152.4	152.7	153.4	153.4	153.4	152.7	152.4	152.4	152.4	152.7
66°	147.4	147.7	148.0	148.3	148.6	148.3	148.0	147.7	147.4	147.7	148.0



TEST NUMBER: P776229

CATALOG NUMBER: HCDJBL3040CSD-HCD42TRMW-3000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	133.4	133.8	134.1	134.4	134.4	134.4	134.1	133.8	133.4	133.8	134.1
68°	129.0	129.3	129.6	130.0	130.0	130.0	129.6	129.3	129.0	129.3	129.6
68.5°	124.6	124.9	125.2	125.2	125.5	125.2	125.2	124.9	124.6	124.9	125.2
69°	120.5	120.5	120.5	121.1	121.1	121.1	120.5	120.5	120.5	120.5	120.5
69.5°	116.0	116.4	116.4	116.7	117.0	116.7	116.4	116.4	116.0	116.4	116.4
70°	112.3	112.6	112.3	112.6	112.9	112.6	112.3	112.6	112.3	112.6	112.3
70.5°	108.1	108.5	108.5	108.5	108.8	108.5	108.5	108.5	108.1	108.5	108.5
71°	104.3	104.3	104.3	104.3	104.7	104.3	104.3	104.3	104.3	104.3	104.3
71.5°	100.2	100.2	100.6	100.6	100.6	100.6	100.6	100.2	100.2	100.2	100.6
72°	96.4	96.4	96.4	96.8	96.8	96.8	96.4	96.4	96.4	96.4	96.4
72.5°	92.6	92.6	92.6	93.0	93.0	93.0	92.6	92.6	92.6	92.6	92.6
73°	88.9	88.9	88.9	89.2	89.2	89.2	88.9	88.9	88.9	88.9	88.9
73.5°	85.1	85.1	85.4	85.4	85.4	85.4	85.4	85.1	85.1	85.1	85.4
74°	81.6	81.6	81.6	81.9	81.9	81.9	81.6	81.6	81.6	81.6	81.6
74.5°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
75°	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
75.5°	71.1	71.1	71.1	71.1	71.5	71.1	71.1	71.1	71.1	71.1	71.1
76°	68.0	67.7	67.7	68.0	68.0	68.0	67.7	67.7	68.0	67.7	67.7
76.5°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
77°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
77.5°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
78°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
78.5°	52.2	52.2	51.9	51.9	52.2	51.9	51.9	52.2	52.2	52.2	51.9
79°	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
79.5°	46.2	46.2	45.9	46.2	46.2	46.2	45.9	46.2	46.2	46.2	45.9
80°	43.3	43.3	43.0	43.0	43.0	43.0	43.0	43.3	43.3	43.3	43.0
80.5°	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
81°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
81.5°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
82°	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
82.5°	29.7	29.7	29.7	29.7	29.4	29.7	29.7	29.7	29.7	29.7	29.7
83°	27.2	27.2	27.2	26.9	26.9	26.9	27.2	27.2	27.2	27.2	27.2
83.5°	24.7	24.7	24.7	24.3	24.3	24.3	24.7	24.7	24.7	24.7	24.7
84°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
84.5°	19.9	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.9	19.6	19.6
85°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
85.5°	15.2	14.9	15.2	14.9	15.2	14.9	15.2	14.9	15.2	14.9	15.2
86°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
86.5°	10.8	10.4	10.4	10.4	10.8	10.4	10.4	10.4	10.8	10.4	10.4
87°	8.5	8.5	8.5	8.2	8.5	8.2	8.5	8.5	8.5	8.5	8.5
87.5°	6.3	6.3	6.3	6.3	6.6	6.3	6.3	6.3	6.3	6.3	6.3
88°	4.1	4.4	4.4	4.7	4.7	4.7	4.4	4.4	4.1	4.4	4.4
88.5°	2.5	2.5	2.8	3.2	3.8	3.2	2.8	2.5	2.5	2.5	2.8



TEST NUMBER: P776229

CATALOG NUMBER: HCDJBL3040CSD-HCD42TRMW-3000lm-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	0.3	0.6	0.9	0.6	0.3	0.0	0.0	0.0	0.3



TEST NUMBER: P776229

CATALOG NUMBER: HCDJBL3040CSD-HCD42TRMW-3000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2361.1	2361.1	2361.1	2361.1	2361.1	2361.1
0.5°	2360.2	2359.2	2360.2	2360.5	2361.1	2361.5
1°	2359.6	2358.3	2359.6	2359.9	2360.2	2360.5
1.5°	2358.0	2357.0	2358.0	2358.6	2358.6	2359.2
2°	2356.1	2354.8	2356.1	2356.4	2357.0	2357.3
2.5°	2353.6	2352.0	2353.6	2353.9	2354.5	2355.1
3°	2350.1	2348.5	2350.1	2350.7	2351.3	2352.0
3.5°	2346.3	2345.3	2346.3	2346.9	2347.9	2348.5
4°	2342.2	2340.6	2342.2	2342.8	2344.1	2344.4
4.5°	2337.4	2335.5	2337.4	2338.1	2339.3	2340.0
5°	2332.7	2330.5	2332.7	2333.3	2334.6	2335.5
5.5°	2326.4	2324.5	2326.4	2327.0	2328.6	2330.8
6°	2319.7	2317.2	2319.7	2320.7	2322.2	2323.5
6.5°	2312.4	2309.9	2312.4	2313.4	2315.3	2316.2
7°	2304.9	2302.6	2304.9	2306.4	2307.4	2308.6
7.5°	2297.0	2294.7	2297.0	2297.6	2298.8	2300.1
8°	2287.8	2286.5	2287.8	2288.7	2290.0	2290.9
8.5°	2278.0	2276.7	2278.0	2278.9	2280.2	2281.5
9°	2267.9	2266.6	2267.9	2268.8	2270.4	2271.3
9.5°	2257.1	2255.8	2257.1	2258.1	2259.6	2260.3
10°	2245.7	2244.1	2245.7	2247.0	2248.3	2249.2
10.5°	2233.7	2232.4	2233.7	2234.7	2236.2	2236.9
11°	2221.4	2219.8	2221.4	2222.6	2223.9	2224.5
11.5°	2208.4	2207.1	2208.4	2209.7	2210.9	2211.6
12°	2195.1	2193.9	2195.1	2196.7	2197.7	2198.3
12.5°	2181.2	2179.6	2181.2	2182.8	2183.7	2184.4
13°	2167.3	2165.7	2167.3	2168.6	2169.5	2170.1
13.5°	2152.8	2151.5	2152.8	2154.0	2154.7	2155.3
14°	2137.9	2136.6	2137.9	2139.2	2139.8	2140.1
14.5°	2122.4	2121.1	2122.4	2123.7	2124.0	2124.3
15°	2107.2	2106.0	2107.2	2107.9	2108.5	2108.5
15.5°	2092.0	2091.4	2092.0	2092.7	2092.0	2092.0
16°	2077.2	2076.6	2077.2	2077.5	2076.6	2076.2
16.5°	2062.3	2062.0	2062.3	2062.3	2061.1	2060.4
17°	2047.1	2047.5	2047.1	2047.5	2046.2	2045.6
17.5°	2032.3	2032.0	2032.3	2032.6	2031.6	2031.0
18°	2017.1	2016.5	2017.1	2017.7	2017.1	2016.8
18.5°	2001.0	2000.0	2001.0	2001.6	2001.6	2001.6
19°	1983.6	1982.6	1983.6	1984.5	1985.2	1986.1
19.5°	1965.2	1964.3	1965.2	1965.9	1967.8	1969.0
20°	1945.6	1943.4	1945.6	1945.3	1948.8	1950.4
20.5°	1924.5	1921.9	1924.5	1923.2	1927.3	1929.8
21°	1901.4	1898.2	1901.4	1899.8	1904.5	1908.3



TEST NUMBER: P776229

CATALOG NUMBER: HCDJBL3040CSD-HCD42TRMW-3000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1822.3	1820.7	1822.3	1822.6	1825.8	1829.6
23°	1793.5	1792.9	1793.5	1795.8	1796.4	1799.6
23.5°	1763.8	1765.4	1763.8	1767.6	1766.0	1768.9
24°	1733.5	1736.3	1733.5	1738.5	1734.7	1736.9
24.5°	1702.8	1706.6	1702.8	1707.9	1703.1	1704.1
25°	1672.1	1675.0	1672.1	1675.9	1670.2	1669.6
25.5°	1641.4	1642.1	1641.4	1643.0	1638.0	1633.9
26°	1609.5	1607.0	1609.5	1609.2	1604.4	1597.2
26.5°	1576.3	1570.6	1576.3	1574.1	1570.3	1559.5
27°	1542.2	1533.6	1542.2	1538.7	1534.9	1522.9
27.5°	1507.1	1496.0	1507.1	1502.6	1498.2	1486.8
28°	1470.4	1458.4	1470.4	1465.9	1461.5	1450.8
28.5°	1433.1	1422.0	1433.1	1429.3	1424.2	1415.7
29°	1395.1	1387.5	1395.1	1392.6	1386.6	1380.9
29.5°	1357.2	1353.7	1357.2	1356.2	1349.6	1346.7
30°	1319.2	1319.5	1319.2	1318.9	1311.6	1312.6
30.5°	1282.5	1287.3	1282.5	1281.9	1275.0	1277.2
31°	1245.9	1253.1	1245.9	1244.6	1237.3	1242.1
31.5°	1209.5	1218.7	1209.5	1207.3	1201.3	1206.0
32°	1173.8	1183.3	1173.8	1170.3	1164.9	1169.3
32.5°	1138.4	1147.8	1138.4	1133.9	1130.1	1133.9
33°	1102.9	1111.8	1102.9	1096.6	1095.4	1098.2
33.5°	1067.5	1075.4	1067.5	1059.6	1060.6	1066.3
34°	1032.7	1041.0	1032.7	1022.9	1025.8	1031.8
34.5°	997.6	1006.8	997.6	987.2	991.3	997.6
35°	963.8	973.6	963.8	953.4	957.8	963.2
35.5°	930.3	941.0	930.3	919.9	924.6	929.7
36°	898.0	909.1	898.0	887.3	891.4	896.8
36.5°	866.1	876.5	866.1	855.7	859.5	864.2
37°	835.1	844.3	835.1	824.7	827.8	831.3
37.5°	805.4	812.0	805.4	795.0	797.2	799.4
38°	776.3	780.1	776.3	766.5	767.4	767.8
38.5°	747.8	749.4	747.8	739.3	738.7	738.0
39°	720.3	720.0	720.3	712.1	710.8	709.3
39.5°	693.1	692.2	693.1	686.2	684.0	681.1
40°	666.9	665.6	666.9	661.2	657.4	654.2
40.5°	641.3	641.0	641.3	637.2	632.1	628.9
41°	617.2	618.2	617.2	614.4	607.8	604.6
41.5°	594.2	597.0	594.2	592.6	585.0	581.5
42°	572.7	576.5	572.7	571.7	563.5	560.0
42.5°	552.4	556.5	552.4	552.1	543.2	539.8
43°	533.4	537.2	533.4	532.8	524.3	520.5
43.5°	515.1	518.6	515.1	514.8	506.6	502.8

TEST NUMBER: P776229

CATALOG NUMBER: HCDJBL3040CSD-HCD42TRMW-3000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	467.0	468.6	467.0	465.5	460.4	457.2
45.5°	452.8	454.1	452.8	451.2	446.5	444.0
46°	439.8	440.5	439.8	437.6	433.5	431.3
46.5°	427.2	427.8	427.2	424.7	421.5	419.6
47°	415.5	416.4	415.5	413.0	409.8	408.5
47.5°	404.7	406.0	404.7	401.9	399.1	398.1
48°	394.9	396.2	394.9	392.4	389.6	388.3
48.5°	385.8	386.7	385.8	383.2	381.0	380.4
49°	376.9	377.9	376.9	375.0	373.1	372.8
49.5°	368.7	369.0	368.7	367.1	365.9	365.5
50°	360.5	360.8	360.5	359.2	358.3	357.9
50.5°	352.6	352.6	352.6	351.3	350.7	350.4
51°	344.7	344.7	344.7	343.4	342.5	341.8
51.5°	336.8	337.1	336.8	335.2	333.9	333.6
52°	328.5	328.9	328.5	327.0	325.7	325.1
52.5°	320.0	320.6	320.0	318.7	317.2	316.5
53°	311.8	312.4	311.8	310.5	309.3	308.6
53.5°	303.9	304.5	303.9	302.3	301.0	300.4
54°	295.7	296.3	295.7	294.4	293.1	292.8
54.5°	288.1	288.7	288.1	286.8	285.5	285.2
55°	280.5	280.8	280.5	279.5	278.3	277.6
55.5°	273.2	273.5	273.2	272.3	271.0	270.4
56°	265.9	266.2	265.9	265.0	264.0	263.4
56.5°	259.0	259.3	259.0	258.0	257.1	256.4
57°	252.0	252.3	252.0	251.1	250.1	249.5
57.5°	245.1	245.7	245.1	244.4	243.5	242.5
58°	238.7	239.1	238.7	237.8	236.8	236.5
58.5°	232.1	232.4	232.1	231.5	230.5	230.2
59°	225.5	226.1	225.5	224.8	224.2	223.9
59.5°	219.4	219.8	219.4	218.5	217.9	217.6
60°	213.1	213.4	213.1	212.5	211.9	211.5
60.5°	207.1	207.4	207.1	206.5	205.9	205.5
61°	201.4	201.7	201.4	200.8	200.2	199.8
61.5°	195.7	196.1	195.7	195.1	194.5	194.2
62°	190.0	190.0	190.0	189.4	188.8	188.8
62.5°	184.4	184.7	184.4	183.7	183.4	183.1
63°	179.0	179.0	179.0	178.3	178.0	177.7
63.5°	173.6	173.9	173.6	173.0	172.7	172.3
64°	168.2	168.5	168.2	167.9	167.6	167.3
64.5°	163.2	163.5	163.2	162.8	162.5	162.2
65°	158.1	158.4	158.1	157.8	157.5	157.2
65.5°	153.4	153.4	153.4	152.7	152.4	152.4
66°	148.3	148.6	148.3	148.0	147.7	147.4



TEST NUMBER: P776229

CATALOG NUMBER: HCDJBL3040CSD-HCD42TRMW-3000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	134.4	134.4	134.4	134.1	133.8	133.4
68°	130.0	130.0	130.0	129.6	129.3	129.0
68.5°	125.2	125.5	125.2	125.2	124.9	124.6
69°	121.1	121.1	121.1	120.5	120.5	120.5
69.5°	116.7	117.0	116.7	116.4	116.4	116.0
70°	112.6	112.9	112.6	112.3	112.6	112.3
70.5°	108.5	108.8	108.5	108.5	108.5	108.1
71°	104.3	104.7	104.3	104.3	104.3	104.3
71.5°	100.6	100.6	100.6	100.6	100.2	100.2
72°	96.8	96.8	96.8	96.4	96.4	96.4
72.5°	93.0	93.0	93.0	92.6	92.6	92.6
73°	89.2	89.2	89.2	88.9	88.9	88.9
73.5°	85.4	85.4	85.4	85.4	85.1	85.1
74°	81.9	81.9	81.9	81.6	81.6	81.6
74.5°	78.1	78.1	78.1	78.1	78.1	78.1
75°	74.6	74.6	74.6	74.6	74.6	74.6
75.5°	71.1	71.5	71.1	71.1	71.1	71.1
76°	68.0	68.0	68.0	67.7	67.7	68.0
76.5°	64.5	64.5	64.5	64.5	64.5	64.5
77°	61.3	61.3	61.3	61.3	61.3	61.3
77.5°	58.2	58.2	58.2	58.2	58.2	58.2
78°	55.0	55.0	55.0	55.0	55.0	55.0
78.5°	51.9	52.2	51.9	51.9	52.2	52.2
79°	49.0	49.0	49.0	49.0	49.0	49.0
79.5°	46.2	46.2	46.2	45.9	46.2	46.2
80°	43.0	43.0	43.0	43.0	43.3	43.3
80.5°	40.5	40.5	40.5	40.5	40.5	40.5
81°	37.6	37.6	37.6	37.6	37.6	37.6
81.5°	34.8	34.8	34.8	34.8	34.8	34.8
82°	32.3	32.3	32.3	32.3	32.3	32.3
82.5°	29.7	29.4	29.7	29.7	29.7	29.7
83°	26.9	26.9	26.9	27.2	27.2	27.2
83.5°	24.3	24.3	24.3	24.7	24.7	24.7
84°	22.1	22.1	22.1	22.1	22.1	22.1
84.5°	19.6	19.6	19.6	19.6	19.6	19.9
85°	17.4	17.4	17.4	17.4	17.4	17.4
85.5°	14.9	15.2	14.9	15.2	14.9	15.2
86°	12.6	12.6	12.6	12.6	12.6	12.6
86.5°	10.4	10.8	10.4	10.4	10.4	10.8
87°	8.2	8.5	8.2	8.5	8.5	8.5
87.5°	6.3	6.6	6.3	6.3	6.3	6.3
88°	4.7	4.7	4.7	4.4	4.4	4.1
88.5°	3.2	3.8	3.2	2.8	2.5	2.5



TEST NUMBER: P776229

CATALOG NUMBER: HCDJBL3040CSD-HCD42TRMW-3000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.6	0.9	0.6	0.3	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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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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Scaled Data Report





21.5°	1883.3	1880.2	1874.8	1876.4	1873.2	1876.4	1874.8	1880.2	1883.3	1880.2	1874.8
22°	1857.1	1853.9	1849.2	1849.8	1846.7	1849.8	1849.2	1853.9	1857.1	1853.9	1849.2



44°	486.3	490.1	497.4	498.0	501.2	498.0	497.4	490.1	486.3	490.1	497.4
44.5°	471.2	474.9	481.3	482.2	484.4	482.2	481.3	474.9	471.2	474.9	481.3



66.5°	142.6	142.9	143.2	143.6	143.9	143.6	143.2	142.9	142.6	142.9	143.2
67°	138.2	138.2	138.5	138.8	139.1	138.8	138.5	138.2	138.2	138.2	138.5



89°	0.9	1.3	1.9	2.2	2.5	2.2	1.9	1.3	0.9	1.3	1.9
89.5°	0.0	0.3	0.9	1.3	1.6	1.3	0.9	0.3	0.0	0.3	0.9

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21.5°	1876.4	1873.2	1876.4	1874.8	1880.2	1883.3
22°	1849.8	1846.7	1849.8	1849.2	1853.9	1857.1



44°	498.0	501.2	498.0	497.4	490.1	486.3
44.5°	482.2	484.4	482.2	481.3	474.9	471.2



66.5°	143.6	143.9	143.6	143.2	142.9	142.6
67°	138.8	139.1	138.8	138.5	138.2	138.2



89°	2.2	2.5	2.2	1.9	1.3	0.9
89.5°	1.3	1.6	1.3	0.9	0.3	0.0

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)