

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: P776713

Luminaire Tested: HCDJBS4050CSD-HCD6TRMB-5000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776713
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: HCDJBL54050CSD-HCD6TRMB-5000lm-4000K
Description: 6 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3537.1 lumens
Efficiency: N/A
Efficacy: 73.7 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

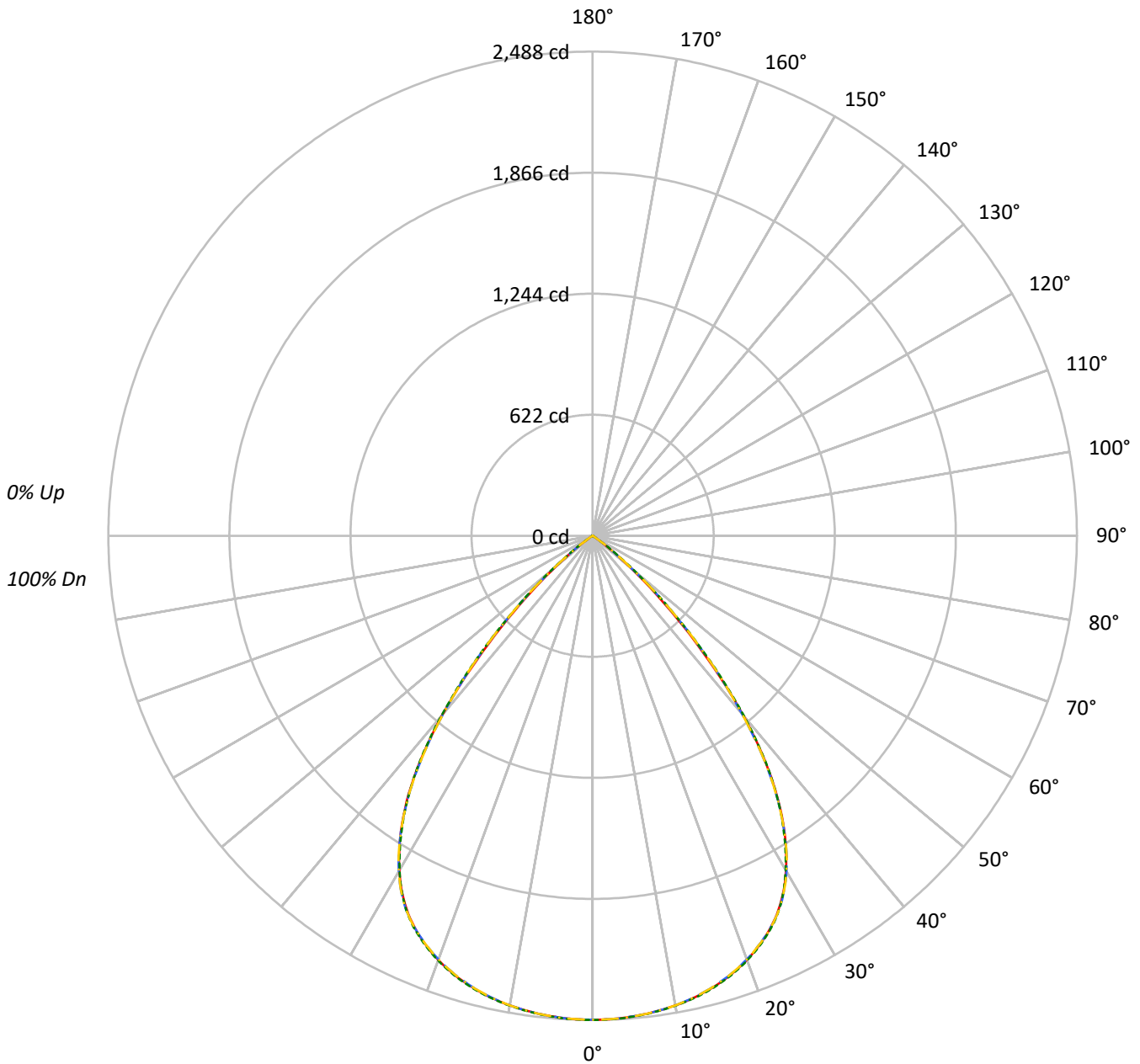
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	136365	136365	136365	136365
5°	136358	136413	136358	136413
10°	136392	136498	136392	136498
15°	136238	136403	136238	136403
20°	135298	135468	135298	135468
25°	132709	132969	132709	132969
30°	125716	125532	125716	125532
35°	111440	111086	111440	111086
40°	85947	86662	85947	86662
45°	51370	53928	51370	53928
50°	21245	24426	21245	24426
55°	4110	4846	4110	4846
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: 54044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	6.7
10°-20°	676.8	19.1
20°-30°	1005.0	28.4
30°-40°	1018.6	28.8
40°-50°	533.1	15.1
50°-60°	66.6	1.9
60°-70°	1.1	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°	1917.4	54.2
0°-40°	2936.1	83.0
0°-60°	3535.8	100.0
0°-90°	3537.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2488	2488	2488	2488	2488	
5°	2478	2479	2478	2479	2478	236
15°	2400	2403	2400	2403	2400	677
25°	2194	2198	2194	2198	2194	1004
35°	1665	1660	1665	1660	1665	1020
45°	663	696	663	696	663	519
55°	43	51	43	51	43	62
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°	2487.5	2487.5	2487.5	2487.5	2487.5	2487.5	2487.5	2487.5	2487.5	2487.5	2487.5
0.5°	2487.5	2487.0	2487.0	2487.0	2488.0	2487.0	2487.0	2487.0	2487.5	2487.0	2487.0
1°	2487.0	2487.0	2486.5	2486.5	2488.0	2486.5	2486.5	2487.0	2487.0	2487.0	2486.5
1.5°	2486.5	2486.5	2486.1	2486.1	2487.5	2486.1	2486.1	2486.5	2486.5	2486.5	2486.1
2°	2486.1	2485.6	2485.6	2485.6	2486.5	2485.6	2485.6	2485.6	2486.1	2485.6	2485.6
2.5°	2485.1	2484.6	2484.6	2484.6	2486.1	2484.6	2484.6	2484.6	2485.1	2484.6	2484.6
3°	2483.7	2483.7	2483.7	2483.7	2485.1	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7
3.5°	2482.7	2482.7	2482.7	2482.2	2483.7	2482.2	2482.7	2482.7	2482.7	2482.7	2482.7
4°	2481.3	2481.3	2481.3	2481.3	2482.2	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3
4.5°	2479.4	2479.4	2479.4	2479.4	2480.8	2479.4	2479.4	2479.4	2479.4	2479.4	2479.4
5°	2477.9	2477.9	2477.9	2477.9	2478.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9
5.5°	2476.0	2476.0	2476.0	2476.0	2477.5	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0
6°	2474.1	2473.6	2473.6	2473.6	2475.1	2473.6	2473.6	2473.6	2474.1	2473.6	2473.6
6.5°	2471.7	2471.2	2471.7	2471.7	2473.2	2471.7	2471.7	2471.2	2471.7	2471.2	2471.7
7°	2469.3	2468.9	2468.9	2469.3	2470.3	2469.3	2468.9	2468.9	2469.3	2468.9	2468.9
7.5°	2466.5	2466.5	2466.5	2466.5	2467.9	2466.5	2466.5	2466.5	2466.5	2466.5	2466.5
8°	2463.6	2463.6	2463.6	2463.6	2465.0	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
8.5°	2460.7	2460.3	2460.3	2460.7	2462.2	2460.7	2460.3	2460.3	2460.7	2460.3	2460.3
9°	2457.4	2457.4	2457.4	2457.4	2458.8	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4
9.5°	2454.0	2453.6	2453.6	2454.0	2455.5	2454.0	2453.6	2453.6	2454.0	2453.6	2453.6
10°	2450.2	2450.2	2449.7	2450.2	2452.1	2450.2	2449.7	2450.2	2450.2	2450.2	2449.7
10.5°	2446.9	2445.9	2445.9	2446.4	2448.3	2446.4	2445.9	2445.9	2446.9	2445.9	2445.9
11°	2442.6	2442.1	2441.6	2442.6	2444.5	2442.6	2441.6	2442.1	2442.6	2442.1	2441.6
11.5°	2438.3	2437.3	2437.3	2438.3	2440.2	2438.3	2437.3	2437.3	2438.3	2437.3	2437.3
12°	2433.5	2433.0	2432.5	2433.5	2435.9	2433.5	2432.5	2433.0	2433.5	2433.0	2432.5
12.5°	2428.7	2427.7	2427.3	2428.7	2431.1	2428.7	2427.3	2427.7	2428.7	2427.7	2427.3
13°	2423.9	2423.0	2422.0	2423.4	2426.3	2423.4	2422.0	2423.0	2423.9	2423.0	2422.0
13.5°	2418.2	2417.2	2416.7	2418.2	2421.0	2418.2	2416.7	2417.2	2418.2	2417.2	2416.7
14°	2412.9	2411.5	2410.5	2412.4	2415.3	2412.4	2410.5	2411.5	2412.9	2411.5	2410.5
14.5°	2406.7	2405.7	2404.8	2406.2	2409.6	2406.2	2404.8	2405.7	2406.7	2405.7	2404.8
15°	2400.5	2399.1	2398.1	2400.0	2403.4	2400.0	2398.1	2399.1	2400.5	2399.1	2398.1
15.5°	2393.8	2392.4	2391.4	2393.3	2396.7	2393.3	2391.4	2392.4	2393.8	2392.4	2391.4
16°	2387.1	2385.7	2384.2	2386.6	2390.0	2386.6	2384.2	2385.7	2387.1	2385.7	2384.2
16.5°	2379.9	2378.0	2377.1	2379.5	2382.8	2379.5	2377.1	2378.0	2379.9	2378.0	2377.1
17°	2372.3	2370.4	2369.4	2371.8	2375.2	2371.8	2369.4	2370.4	2372.3	2370.4	2369.4
17.5°	2364.2	2362.7	2361.3	2363.7	2367.5	2363.7	2361.3	2362.7	2364.2	2362.7	2361.3
18°	2356.0	2354.1	2352.7	2355.5	2358.9	2355.5	2352.7	2354.1	2356.0	2354.1	2352.7
18.5°	2346.9	2345.5	2344.1	2346.9	2350.3	2346.9	2344.1	2345.5	2346.9	2345.5	2344.1
19°	2338.3	2336.4	2335.0	2337.9	2341.2	2337.9	2335.0	2336.4	2338.3	2336.4	2335.0
19.5°	2328.8	2327.3	2325.4	2328.3	2332.1	2328.3	2325.4	2327.3	2328.8	2327.3	2325.4
20°	2319.2	2317.3	2315.9	2318.7	2322.1	2318.7	2315.9	2317.3	2319.2	2317.3	2315.9
20.5°	2308.7	2307.3	2305.8	2308.7	2312.0	2308.7	2305.8	2307.3	2308.7	2307.3	2305.8
21°	2298.2	2296.7	2295.3	2298.2	2301.0	2298.2	2295.3	2296.7	2298.2	2296.7	2295.3



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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°	2263.3	2261.8	2261.4	2263.8	2266.6	2263.8	2261.4	2261.8	2263.3	2261.8	2261.4
23°	2250.4	2249.4	2248.9	2251.8	2253.7	2251.8	2248.9	2249.4	2250.4	2249.4	2248.9
23.5°	2237.0	2236.5	2236.5	2238.9	2240.8	2238.9	2236.5	2236.5	2237.0	2236.5	2236.5
24°	2223.6	2223.1	2223.6	2225.0	2227.4	2225.0	2223.6	2223.1	2223.6	2223.1	2223.6
24.5°	2209.3	2209.3	2209.7	2211.2	2213.1	2211.2	2209.7	2209.3	2209.3	2209.3	2209.7
25°	2194.0	2194.4	2195.4	2196.3	2198.3	2196.3	2195.4	2194.4	2194.0	2194.4	2195.4
25.5°	2178.2	2178.7	2180.1	2180.1	2182.0	2180.1	2180.1	2178.7	2178.2	2178.7	2180.1
26°	2161.0	2161.9	2163.4	2163.4	2165.3	2163.4	2163.4	2161.9	2161.0	2161.9	2163.4
26.5°	2143.3	2144.7	2146.6	2145.7	2146.6	2145.7	2146.6	2144.7	2143.3	2144.7	2146.6
27°	2124.2	2126.1	2128.0	2126.5	2127.5	2126.5	2128.0	2126.1	2124.2	2126.1	2128.0
27.5°	2104.1	2106.5	2108.4	2106.5	2106.5	2106.5	2108.4	2106.5	2104.1	2106.5	2108.4
28°	2082.6	2085.4	2087.8	2084.9	2083.5	2084.9	2087.8	2085.4	2082.6	2085.4	2087.8
28.5°	2060.1	2063.4	2065.8	2062.5	2060.1	2062.5	2065.8	2063.4	2060.1	2063.4	2065.8
29°	2036.7	2040.0	2042.4	2039.1	2035.7	2039.1	2042.4	2040.0	2036.7	2040.0	2042.4
29.5°	2011.8	2015.6	2018.0	2014.2	2009.9	2014.2	2018.0	2015.6	2011.8	2015.6	2018.0
30°	1986.0	1988.9	1991.7	1987.4	1983.1	1987.4	1991.7	1988.9	1986.0	1988.9	1991.7
30.5°	1959.2	1962.1	1964.5	1959.7	1954.9	1959.7	1964.5	1962.1	1959.2	1962.1	1964.5
31°	1931.0	1933.4	1935.8	1931.5	1926.2	1931.5	1935.8	1933.4	1931.0	1933.4	1935.8
31.5°	1901.8	1903.3	1905.7	1900.9	1896.1	1900.9	1905.7	1903.3	1901.8	1903.3	1905.7
32°	1871.7	1871.7	1874.1	1869.3	1865.5	1869.3	1874.1	1871.7	1871.7	1871.7	1874.1
32.5°	1840.2	1839.7	1841.1	1836.3	1833.5	1836.3	1841.1	1839.7	1840.2	1839.7	1841.1
33°	1807.7	1805.7	1807.2	1802.4	1801.4	1802.4	1807.2	1805.7	1807.7	1805.7	1807.2
33.5°	1774.7	1771.3	1771.8	1767.5	1767.0	1767.5	1771.8	1771.3	1774.7	1771.3	1771.8
34°	1739.3	1735.5	1735.5	1730.7	1733.1	1730.7	1735.5	1735.5	1739.3	1735.5	1735.5
34.5°	1703.0	1698.7	1697.7	1692.9	1697.2	1692.9	1697.7	1698.7	1703.0	1698.7	1697.7
35°	1665.2	1660.4	1658.5	1655.1	1659.9	1655.1	1658.5	1660.4	1665.2	1660.4	1658.5
35.5°	1625.5	1621.7	1618.3	1616.4	1621.7	1616.4	1618.3	1621.7	1625.5	1621.7	1618.3
36°	1584.4	1581.5	1576.7	1575.8	1582.0	1575.8	1576.7	1581.5	1584.4	1581.5	1576.7
36.5°	1541.8	1539.4	1533.7	1534.2	1541.4	1534.2	1533.7	1539.4	1541.8	1539.4	1533.7
37°	1497.4	1495.9	1489.2	1491.6	1498.3	1491.6	1489.2	1495.9	1497.4	1495.9	1489.2
37.5°	1451.5	1451.0	1442.9	1447.2	1453.4	1447.2	1442.9	1451.0	1451.5	1451.0	1442.9
38°	1404.6	1404.1	1395.1	1401.3	1407.5	1401.3	1395.1	1404.1	1404.6	1404.1	1395.1
38.5°	1355.9	1355.4	1345.3	1354.0	1360.2	1354.0	1345.3	1355.4	1355.9	1355.4	1345.3
39°	1306.1	1304.7	1295.1	1306.1	1311.9	1306.1	1295.1	1304.7	1306.1	1304.7	1295.1
39.5°	1255.0	1252.6	1244.0	1256.4	1262.2	1256.4	1244.0	1252.6	1255.0	1252.6	1244.0
40°	1201.0	1199.0	1191.9	1204.8	1211.0	1204.8	1191.9	1199.0	1201.0	1199.0	1191.9
40.5°	1147.4	1145.0	1140.2	1152.7	1157.9	1152.7	1140.2	1145.0	1147.4	1145.0	1140.2
41°	1092.4	1091.0	1090.0	1100.6	1105.3	1100.6	1090.0	1091.0	1092.4	1091.0	1090.0
41.5°	1037.9	1036.5	1039.8	1048.5	1052.8	1048.5	1039.8	1036.5	1037.9	1036.5	1039.8
42°	982.5	983.0	990.1	995.9	1001.1	995.9	990.1	983.0	982.5	983.0	990.1
42.5°	927.5	929.9	939.9	944.7	949.5	944.7	939.9	929.9	927.5	929.9	939.9
43°	872.5	877.3	889.7	894.0	897.4	894.0	889.7	877.3	872.5	877.3	889.7
43.5°	818.5	825.2	839.5	843.8	845.7	843.8	839.5	825.2	818.5	825.2	839.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	662.6	672.2	691.3	697.1	695.6	697.1	691.3	672.2	662.6	672.2	691.3
45.5°	613.4	623.4	643.5	651.2	647.3	651.2	643.5	623.4	613.4	623.4	643.5
46°	565.1	577.1	598.1	605.7	600.0	605.7	598.1	577.1	565.1	577.1	598.1
46.5°	521.1	531.6	552.7	559.8	554.6	559.8	552.7	531.6	521.1	531.6	552.7
47°	477.1	487.2	507.7	515.9	510.1	515.9	507.7	487.2	477.1	487.2	507.7
47.5°	434.6	444.1	463.3	472.4	468.0	472.4	463.3	444.1	434.6	444.1	463.3
48°	392.5	402.6	421.2	431.2	428.4	431.2	421.2	402.6	392.5	402.6	421.2
48.5°	352.4	363.3	381.0	392.0	389.6	392.0	381.0	363.3	352.4	363.3	381.0
49°	315.5	326.1	342.3	354.3	354.7	354.3	342.3	326.1	315.5	326.1	342.3
49.5°	281.6	289.7	305.0	318.4	320.3	318.4	305.0	289.7	281.6	289.7	305.0
50°	249.1	256.3	269.2	283.5	286.4	283.5	269.2	256.3	249.1	256.3	269.2
50.5°	218.5	224.2	235.2	250.0	253.4	250.0	235.2	224.2	218.5	224.2	235.2
51°	190.3	195.5	206.1	219.0	222.3	219.0	206.1	195.5	190.3	195.5	206.1
51.5°	164.9	169.2	178.3	189.8	195.1	189.8	178.3	169.2	164.9	169.2	178.3
52°	141.0	144.9	152.5	162.6	168.3	162.6	152.5	144.9	141.0	144.9	152.5
52.5°	121.0	121.9	127.6	137.2	142.5	137.2	127.6	121.9	121.0	121.9	127.6
53°	102.3	101.8	106.6	115.7	119.5	115.7	106.6	101.8	102.3	101.8	106.6
53.5°	84.1	85.1	88.9	97.1	98.5	97.1	88.9	85.1	84.1	85.1	88.9
54°	68.4	69.8	72.2	79.4	79.4	79.4	72.2	69.8	68.4	69.8	72.2
54.5°	55.0	55.9	56.9	63.1	62.6	63.1	56.9	55.9	55.0	55.9	56.9
55°	43.0	42.5	43.5	48.8	50.7	48.8	43.5	42.5	43.0	42.5	43.5
55.5°	31.6	31.6	33.0	36.3	39.2	36.3	33.0	31.6	31.6	31.6	33.0
56°	21.0	22.5	24.9	27.7	30.1	27.7	24.9	22.5	21.0	22.5	24.9
56.5°	14.3	14.8	18.2	19.6	21.5	19.6	18.2	14.8	14.3	14.8	18.2
57°	11.5	10.5	12.0	12.9	12.9	12.9	12.0	10.5	11.5	10.5	12.0
57.5°	9.1	8.1	8.6	9.6	8.6	9.6	8.6	8.1	9.1	8.1	8.6
58°	7.2	6.7	7.2	7.6	6.2	7.6	7.2	6.7	7.2	6.7	7.2
58.5°	4.8	5.3	5.7	6.2	5.3	6.2	5.7	5.3	4.8	5.3	5.7
59°	4.3	4.3	4.3	4.8	4.3	4.8	4.3	4.3	4.3	4.3	4.3
59.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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°	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.4	1.9	1.9
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
63°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
63.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
64°	1.0	1.0	1.0	1.0	1.4	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: P776713

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-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°	0.0	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: P776713

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-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: P776713

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2487.5	2487.5	2487.5	2487.5	2487.5	2487.5
0.5°	2487.0	2488.0	2487.0	2487.0	2487.0	2487.5
1°	2486.5	2488.0	2486.5	2486.5	2487.0	2487.0
1.5°	2486.1	2487.5	2486.1	2486.1	2486.5	2486.5
2°	2485.6	2486.5	2485.6	2485.6	2485.6	2486.1
2.5°	2484.6	2486.1	2484.6	2484.6	2484.6	2485.1
3°	2483.7	2485.1	2483.7	2483.7	2483.7	2483.7
3.5°	2482.2	2483.7	2482.2	2482.7	2482.7	2482.7
4°	2481.3	2482.2	2481.3	2481.3	2481.3	2481.3
4.5°	2479.4	2480.8	2479.4	2479.4	2479.4	2479.4
5°	2477.9	2478.9	2477.9	2477.9	2477.9	2477.9
5.5°	2476.0	2477.5	2476.0	2476.0	2476.0	2476.0
6°	2473.6	2475.1	2473.6	2473.6	2473.6	2474.1
6.5°	2471.7	2473.2	2471.7	2471.7	2471.2	2471.7
7°	2469.3	2470.3	2469.3	2468.9	2468.9	2469.3
7.5°	2466.5	2467.9	2466.5	2466.5	2466.5	2466.5
8°	2463.6	2465.0	2463.6	2463.6	2463.6	2463.6
8.5°	2460.7	2462.2	2460.7	2460.3	2460.3	2460.7
9°	2457.4	2458.8	2457.4	2457.4	2457.4	2457.4
9.5°	2454.0	2455.5	2454.0	2453.6	2453.6	2454.0
10°	2450.2	2452.1	2450.2	2449.7	2450.2	2450.2
10.5°	2446.4	2448.3	2446.4	2445.9	2445.9	2446.9
11°	2442.6	2444.5	2442.6	2441.6	2442.1	2442.6
11.5°	2438.3	2440.2	2438.3	2437.3	2437.3	2438.3
12°	2433.5	2435.9	2433.5	2432.5	2433.0	2433.5
12.5°	2428.7	2431.1	2428.7	2427.3	2427.7	2428.7
13°	2423.4	2426.3	2423.4	2422.0	2423.0	2423.9
13.5°	2418.2	2421.0	2418.2	2416.7	2417.2	2418.2
14°	2412.4	2415.3	2412.4	2410.5	2411.5	2412.9
14.5°	2406.2	2409.6	2406.2	2404.8	2405.7	2406.7
15°	2400.0	2403.4	2400.0	2398.1	2399.1	2400.5
15.5°	2393.3	2396.7	2393.3	2391.4	2392.4	2393.8
16°	2386.6	2390.0	2386.6	2384.2	2385.7	2387.1
16.5°	2379.5	2382.8	2379.5	2377.1	2378.0	2379.9
17°	2371.8	2375.2	2371.8	2369.4	2370.4	2372.3
17.5°	2363.7	2367.5	2363.7	2361.3	2362.7	2364.2
18°	2355.5	2358.9	2355.5	2352.7	2354.1	2356.0
18.5°	2346.9	2350.3	2346.9	2344.1	2345.5	2346.9
19°	2337.9	2341.2	2337.9	2335.0	2336.4	2338.3
19.5°	2328.3	2332.1	2328.3	2325.4	2327.3	2328.8
20°	2318.7	2322.1	2318.7	2315.9	2317.3	2319.2
20.5°	2308.7	2312.0	2308.7	2305.8	2307.3	2308.7
21°	2298.2	2301.0	2298.2	2295.3	2296.7	2298.2



TEST NUMBER: P776713

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2263.8	2266.6	2263.8	2261.4	2261.8	2263.3
23°	2251.8	2253.7	2251.8	2248.9	2249.4	2250.4
23.5°	2238.9	2240.8	2238.9	2236.5	2236.5	2237.0
24°	2225.0	2227.4	2225.0	2223.6	2223.1	2223.6
24.5°	2211.2	2213.1	2211.2	2209.7	2209.3	2209.3
25°	2196.3	2198.3	2196.3	2195.4	2194.4	2194.0
25.5°	2180.1	2182.0	2180.1	2180.1	2178.7	2178.2
26°	2163.4	2165.3	2163.4	2163.4	2161.9	2161.0
26.5°	2145.7	2146.6	2145.7	2146.6	2144.7	2143.3
27°	2126.5	2127.5	2126.5	2128.0	2126.1	2124.2
27.5°	2106.5	2106.5	2106.5	2108.4	2106.5	2104.1
28°	2084.9	2083.5	2084.9	2087.8	2085.4	2082.6
28.5°	2062.5	2060.1	2062.5	2065.8	2063.4	2060.1
29°	2039.1	2035.7	2039.1	2042.4	2040.0	2036.7
29.5°	2014.2	2009.9	2014.2	2018.0	2015.6	2011.8
30°	1987.4	1983.1	1987.4	1991.7	1988.9	1986.0
30.5°	1959.7	1954.9	1959.7	1964.5	1962.1	1959.2
31°	1931.5	1926.2	1931.5	1935.8	1933.4	1931.0
31.5°	1900.9	1896.1	1900.9	1905.7	1903.3	1901.8
32°	1869.3	1865.5	1869.3	1874.1	1871.7	1871.7
32.5°	1836.3	1833.5	1836.3	1841.1	1839.7	1840.2
33°	1802.4	1801.4	1802.4	1807.2	1805.7	1807.7
33.5°	1767.5	1767.0	1767.5	1771.8	1771.3	1774.7
34°	1730.7	1733.1	1730.7	1735.5	1735.5	1739.3
34.5°	1692.9	1697.2	1692.9	1697.7	1698.7	1703.0
35°	1655.1	1659.9	1655.1	1658.5	1660.4	1665.2
35.5°	1616.4	1621.7	1616.4	1618.3	1621.7	1625.5
36°	1575.8	1582.0	1575.8	1576.7	1581.5	1584.4
36.5°	1534.2	1541.4	1534.2	1533.7	1539.4	1541.8
37°	1491.6	1498.3	1491.6	1489.2	1495.9	1497.4
37.5°	1447.2	1453.4	1447.2	1442.9	1451.0	1451.5
38°	1401.3	1407.5	1401.3	1395.1	1404.1	1404.6
38.5°	1354.0	1360.2	1354.0	1345.3	1355.4	1355.9
39°	1306.1	1311.9	1306.1	1295.1	1304.7	1306.1
39.5°	1256.4	1262.2	1256.4	1244.0	1252.6	1255.0
40°	1204.8	1211.0	1204.8	1191.9	1199.0	1201.0
40.5°	1152.7	1157.9	1152.7	1140.2	1145.0	1147.4
41°	1100.6	1105.3	1100.6	1090.0	1091.0	1092.4
41.5°	1048.5	1052.8	1048.5	1039.8	1036.5	1037.9
42°	995.9	1001.1	995.9	990.1	983.0	982.5
42.5°	944.7	949.5	944.7	939.9	929.9	927.5
43°	894.0	897.4	894.0	889.7	877.3	872.5
43.5°	843.8	845.7	843.8	839.5	825.2	818.5



TEST NUMBER: P776713

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	697.1	695.6	697.1	691.3	672.2	662.6
45.5°	651.2	647.3	651.2	643.5	623.4	613.4
46°	605.7	600.0	605.7	598.1	577.1	565.1
46.5°	559.8	554.6	559.8	552.7	531.6	521.1
47°	515.9	510.1	515.9	507.7	487.2	477.1
47.5°	472.4	468.0	472.4	463.3	444.1	434.6
48°	431.2	428.4	431.2	421.2	402.6	392.5
48.5°	392.0	389.6	392.0	381.0	363.3	352.4
49°	354.3	354.7	354.3	342.3	326.1	315.5
49.5°	318.4	320.3	318.4	305.0	289.7	281.6
50°	283.5	286.4	283.5	269.2	256.3	249.1
50.5°	250.0	253.4	250.0	235.2	224.2	218.5
51°	219.0	222.3	219.0	206.1	195.5	190.3
51.5°	189.8	195.1	189.8	178.3	169.2	164.9
52°	162.6	168.3	162.6	152.5	144.9	141.0
52.5°	137.2	142.5	137.2	127.6	121.9	121.0
53°	115.7	119.5	115.7	106.6	101.8	102.3
53.5°	97.1	98.5	97.1	88.9	85.1	84.1
54°	79.4	79.4	79.4	72.2	69.8	68.4
54.5°	63.1	62.6	63.1	56.9	55.9	55.0
55°	48.8	50.7	48.8	43.5	42.5	43.0
55.5°	36.3	39.2	36.3	33.0	31.6	31.6
56°	27.7	30.1	27.7	24.9	22.5	21.0
56.5°	19.6	21.5	19.6	18.2	14.8	14.3
57°	12.9	12.9	12.9	12.0	10.5	11.5
57.5°	9.6	8.6	9.6	8.6	8.1	9.1
58°	7.6	6.2	7.6	7.2	6.7	7.2
58.5°	6.2	5.3	6.2	5.7	5.3	4.8
59°	4.8	4.3	4.8	4.3	4.3	4.3
59.5°	3.3	3.3	3.3	3.3	3.3	3.3
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	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4
63°	1.4	1.4	1.4	1.4	1.4	1.4
63.5°	1.4	1.4	1.4	1.4	1.4	1.4
64°	1.0	1.4	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: P776713

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-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	0.0
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: P776713

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMB-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

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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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	2287.2	2285.3	2284.3	2287.2	2290.1	2287.2	2284.3	2285.3	2287.2	2285.3	2284.3
22°	2275.2	2274.3	2272.8	2275.7	2278.1	2275.7	2272.8	2274.3	2275.2	2274.3	2272.8



44°	764.9	773.5	789.3	794.1	795.1	794.1	789.3	773.5	764.9	773.5	789.3
44.5°	713.3	722.4	740.1	745.3	744.9	745.3	740.1	722.4	713.3	722.4	740.1



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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1121 Highway 74 South
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21.5°	2287.2	2290.1	2287.2	2284.3	2285.3	2287.2
22°	2275.7	2278.1	2275.7	2272.8	2274.3	2275.2



44°	794.1	795.1	794.1	789.3	773.5	764.9
44.5°	745.3	744.9	745.3	740.1	722.4	713.3

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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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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)