

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: P776825

Luminaire Tested: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B005-HCD4TSQC)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K
Description: 8 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

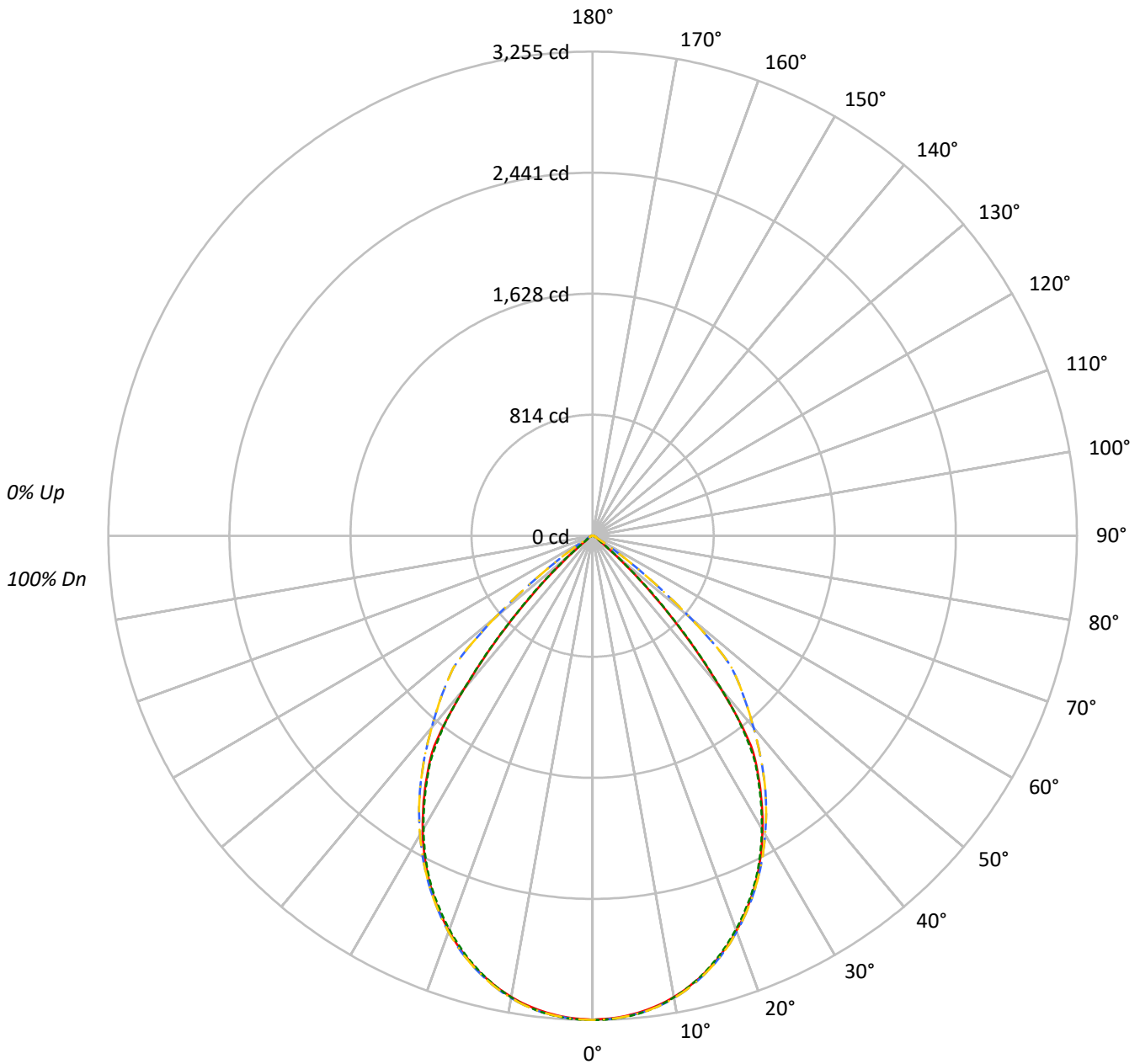
Lumens per Lamp: N/A
Luminaire Lumens: 4480.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84																			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	82	77	72	80	75	72	78	74	71	69																			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63																			
6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58																			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53																			
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48																			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45																			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	78026	78026	78026	78026
5°	77655	77818	77655	77818
10°	76646	76712	76646	76712
15°	74818	74729	74818	74729
20°	72117	71852	72117	71852
25°	68397	68170	68397	68170
30°	63256	62965	63256	62965
35°	56528	56235	56528	56235
40°	41979	42207	41979	42207
45°	21998	22554	21998	22554
50°	7136	7714	7136	7714
55°	2362	2170	2362	2170
60°	1794	1683	1794	1683
65°	1367	1316	1367	1316
70°	1087	1052	1087	1052
75°	889	889	889	889
80°	690	759	690	759
85°	495	495	495	495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 46763 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	6.8
10°-20°	847.8	18.9
20°-30°	1187.5	26.5
30°-40°	1219.9	27.2
40°-50°	739.0	16.5
50°-60°	138.9	3.1
60°-70°	26.9	0.6
70°-80°	12.1	0.3
80°-90°	2.6	0.1
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°	2341.2	52.3
0°-40°	3561.1	79.5
0°-60°	4438.9	99.1
0°-90°	4480.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3254	3254	3254	3254	3254	
5°	3226	3233	3226	3233	3226	305
15°	3014	3010	3014	3010	3014	847
25°	2585	2577	2585	2577	2585	1184
35°	1931	1921	1931	1921	1931	1179
45°	649	665	649	665	649	519
55°	56	52	56	52	56	65
65°	24	23	24	23	24	25
75°	10	10	10	10	10	10
85°	2	2	2	2	2	2
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°	3254.0	3254.0	3254.0	3254.0	3254.0	3254.0	3254.0	3254.0	3254.0	3254.0	3254.0
0.5°	3250.8	3252.2	3254.5	3255.8	3254.9	3255.8	3254.5	3252.2	3250.8	3252.2	3254.5
1°	3250.4	3251.7	3253.5	3254.9	3254.5	3254.9	3253.5	3251.7	3250.4	3251.7	3253.5
1.5°	3249.0	3250.4	3252.6	3254.0	3253.5	3254.0	3252.6	3250.4	3249.0	3250.4	3252.6
2°	3247.2	3248.5	3250.8	3252.6	3251.7	3252.6	3250.8	3248.5	3247.2	3248.5	3250.8
2.5°	3244.9	3246.3	3249.0	3250.4	3249.9	3250.4	3249.0	3246.3	3244.9	3246.3	3249.0
3°	3242.2	3244.0	3246.3	3248.1	3247.6	3248.1	3246.3	3244.0	3242.2	3244.0	3246.3
3.5°	3239.0	3240.8	3243.5	3245.3	3244.9	3245.3	3243.5	3240.8	3239.0	3240.8	3243.5
4°	3235.3	3237.1	3239.9	3242.2	3241.7	3242.2	3239.9	3237.1	3235.3	3237.1	3239.9
4.5°	3231.2	3232.6	3235.8	3238.1	3237.6	3238.1	3235.8	3232.6	3231.2	3232.6	3235.8
5°	3226.2	3228.0	3231.7	3234.0	3233.0	3234.0	3231.7	3228.0	3226.2	3228.0	3231.7
5.5°	3221.2	3223.0	3226.7	3228.9	3227.6	3228.9	3226.7	3223.0	3221.2	3223.0	3226.7
6°	3214.8	3217.1	3221.2	3223.5	3222.1	3223.5	3221.2	3217.1	3214.8	3217.1	3221.2
6.5°	3208.4	3211.2	3215.3	3217.1	3215.3	3217.1	3215.3	3211.2	3208.4	3211.2	3215.3
7°	3201.6	3204.3	3208.4	3209.8	3208.0	3209.8	3208.4	3204.3	3201.6	3204.3	3208.4
7.5°	3193.9	3197.1	3201.2	3202.1	3199.8	3202.1	3201.2	3197.1	3193.9	3197.1	3201.2
8°	3185.7	3189.3	3193.4	3193.9	3191.6	3193.9	3193.4	3189.3	3185.7	3189.3	3193.4
8.5°	3177.0	3180.7	3184.8	3184.3	3182.0	3184.3	3184.8	3180.7	3177.0	3180.7	3184.8
9°	3167.9	3171.5	3175.6	3174.7	3172.0	3174.7	3175.6	3171.5	3167.9	3171.5	3175.6
9.5°	3158.3	3162.0	3166.1	3164.3	3161.5	3164.3	3166.1	3162.0	3158.3	3162.0	3166.1
10°	3147.9	3152.4	3155.6	3153.8	3150.6	3153.8	3155.6	3152.4	3147.9	3152.4	3155.6
10.5°	3136.9	3141.5	3144.7	3142.4	3139.2	3142.4	3144.7	3141.5	3136.9	3141.5	3144.7
11°	3125.5	3130.5	3133.3	3130.5	3126.9	3130.5	3133.3	3130.5	3125.5	3130.5	3133.3
11.5°	3113.7	3118.7	3121.0	3117.8	3114.1	3117.8	3121.0	3118.7	3113.7	3118.7	3121.0
12°	3100.9	3106.4	3108.2	3105.0	3101.4	3105.0	3108.2	3106.4	3100.9	3106.4	3108.2
12.5°	3087.7	3093.6	3095.0	3091.4	3087.3	3091.4	3095.0	3093.6	3087.7	3093.6	3095.0
13°	3074.1	3080.0	3081.3	3077.2	3073.1	3077.2	3081.3	3080.0	3074.1	3080.0	3081.3
13.5°	3059.9	3065.9	3066.8	3062.7	3058.1	3062.7	3066.8	3065.9	3059.9	3065.9	3066.8
14°	3044.9	3051.7	3052.2	3047.6	3042.6	3047.6	3052.2	3051.7	3044.9	3051.7	3052.2
14.5°	3029.9	3036.2	3036.7	3031.7	3026.7	3031.7	3036.2	3036.2	3029.9	3036.2	3036.7
15°	3013.9	3020.8	3021.2	3015.3	3010.3	3015.3	3021.2	3020.8	3013.9	3020.8	3021.2
15.5°	2997.5	3004.8	3004.4	2998.4	2993.0	2998.4	3004.4	3004.8	2997.5	3004.8	3004.4
16°	2980.7	2988.0	2987.5	2981.1	2975.7	2981.1	2987.5	2988.0	2980.7	2988.0	2987.5
16.5°	2963.4	2970.6	2969.7	2963.4	2957.4	2963.4	2969.7	2970.6	2963.4	2970.6	2969.7
17°	2945.6	2952.9	2952.0	2944.7	2938.8	2944.7	2952.0	2952.9	2945.6	2952.9	2952.0
17.5°	2926.9	2934.7	2933.3	2926.0	2919.6	2926.0	2933.3	2934.7	2926.9	2934.7	2933.3
18°	2907.8	2915.5	2913.7	2906.4	2899.6	2906.4	2913.7	2915.5	2907.8	2915.5	2913.7
18.5°	2888.2	2895.9	2894.6	2886.8	2879.1	2886.8	2894.6	2895.9	2888.2	2895.9	2894.6
19°	2868.1	2876.3	2874.5	2866.3	2858.6	2866.3	2874.5	2876.3	2868.1	2876.3	2874.5
19.5°	2847.2	2855.8	2853.6	2845.4	2837.2	2845.4	2853.6	2855.8	2847.2	2855.8	2853.6
20°	2826.2	2834.9	2832.6	2824.4	2815.8	2824.4	2832.6	2834.9	2826.2	2834.9	2832.6
20.5°	2804.8	2813.5	2811.2	2802.1	2793.4	2802.1	2811.2	2813.5	2804.8	2813.5	2811.2
21°	2782.5	2791.2	2789.3	2779.8	2770.7	2779.8	2789.3	2791.2	2782.5	2791.2	2789.3



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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°	2712.8	2722.4	2720.1	2710.1	2701.4	2710.1	2720.1	2722.4	2712.8	2722.4	2720.1
23°	2688.7	2698.2	2696.4	2685.9	2677.3	2685.9	2696.4	2698.2	2688.7	2698.2	2696.4
23.5°	2663.6	2674.1	2672.3	2661.8	2653.6	2661.8	2672.3	2674.1	2663.6	2674.1	2672.3
24°	2638.5	2648.6	2647.7	2637.2	2629.0	2637.2	2647.7	2648.6	2638.5	2648.6	2647.7
24.5°	2612.1	2623.1	2622.6	2612.6	2603.0	2612.6	2622.6	2623.1	2612.1	2623.1	2622.6
25°	2585.2	2597.1	2596.6	2587.5	2576.6	2587.5	2596.6	2597.1	2585.2	2597.1	2596.6
25.5°	2558.4	2570.7	2570.7	2561.1	2550.2	2561.1	2570.7	2570.7	2558.4	2570.7	2570.7
26°	2530.1	2543.3	2544.2	2535.6	2522.8	2535.6	2544.2	2543.3	2530.1	2543.3	2544.2
26.5°	2501.9	2515.5	2517.4	2508.7	2494.1	2508.7	2517.4	2515.5	2501.9	2515.5	2517.4
27°	2472.3	2487.3	2490.0	2481.4	2464.5	2481.4	2490.0	2487.3	2472.3	2487.3	2490.0
27.5°	2443.1	2458.6	2462.7	2453.1	2434.9	2453.1	2462.7	2458.6	2443.1	2458.6	2462.7
28°	2412.6	2429.0	2434.9	2424.0	2403.5	2424.0	2434.9	2429.0	2412.6	2429.0	2434.9
28.5°	2381.6	2398.9	2406.2	2394.4	2371.6	2394.4	2406.2	2398.9	2381.6	2398.9	2406.2
29°	2349.3	2369.3	2378.0	2364.3	2339.7	2364.3	2378.0	2369.3	2349.3	2369.3	2378.0
29.5°	2316.9	2338.8	2349.7	2332.9	2306.9	2332.9	2349.7	2338.8	2316.9	2338.8	2349.7
30°	2284.6	2307.4	2320.1	2301.4	2274.1	2301.4	2320.1	2307.4	2284.6	2307.4	2320.1
30.5°	2251.3	2275.5	2291.0	2269.1	2240.4	2269.1	2291.0	2275.5	2251.3	2275.5	2291.0
31°	2216.7	2243.1	2260.9	2237.2	2206.7	2237.2	2260.9	2243.1	2216.7	2243.1	2260.9
31.5°	2183.0	2210.8	2231.3	2204.4	2172.1	2204.4	2231.3	2210.8	2183.0	2210.8	2231.3
32°	2148.4	2177.5	2201.2	2171.6	2137.0	2171.6	2201.2	2177.5	2148.4	2177.5	2201.2
32.5°	2113.3	2143.8	2170.7	2137.4	2101.9	2137.4	2170.7	2143.8	2113.3	2143.8	2170.7
33°	2077.8	2110.1	2139.7	2104.6	2066.8	2104.6	2139.7	2110.1	2077.8	2110.1	2139.7
33.5°	2042.2	2076.9	2108.3	2070.9	2030.8	2070.9	2108.3	2076.9	2042.2	2076.9	2108.3
34°	2005.3	2042.7	2076.4	2037.2	1994.4	2037.2	2076.4	2042.7	2005.3	2042.7	2076.4
34.5°	1968.9	2008.1	2044.5	2003.5	1957.5	2003.5	2044.5	2008.1	1968.9	2008.1	2044.5
35°	1931.1	1973.4	2012.6	1968.9	1921.1	1968.9	2012.6	1973.4	1931.1	1973.4	2012.6
35.5°	1894.6	1939.3	1979.4	1934.7	1884.6	1934.7	1979.4	1939.3	1894.6	1939.3	1979.4
36°	1856.8	1904.2	1946.1	1900.1	1841.3	1900.1	1946.1	1904.2	1856.8	1904.2	1946.1
36.5°	1816.3	1868.2	1913.8	1865.0	1792.6	1865.0	1913.8	1868.2	1816.3	1868.2	1913.8
37°	1767.5	1833.1	1880.5	1829.9	1738.8	1829.9	1880.5	1833.1	1767.5	1833.1	1880.5
37.5°	1703.8	1797.1	1847.7	1794.4	1683.3	1794.4	1847.7	1797.1	1703.8	1797.1	1847.7
38°	1639.5	1761.6	1813.5	1759.3	1624.0	1759.3	1813.5	1761.6	1639.5	1761.6	1813.5
38.5°	1568.5	1725.6	1780.7	1720.6	1563.4	1720.6	1780.7	1725.6	1568.5	1725.6	1780.7
39°	1494.7	1688.3	1747.9	1675.5	1495.6	1675.5	1747.9	1688.3	1494.7	1688.3	1747.9
39.5°	1417.7	1634.1	1715.6	1624.9	1424.1	1624.9	1715.6	1634.1	1417.7	1634.1	1715.6
40°	1341.1	1575.7	1682.8	1569.8	1348.4	1569.8	1682.8	1575.7	1341.1	1575.7	1682.8
40.5°	1264.6	1509.7	1650.5	1511.1	1273.7	1511.1	1650.5	1509.7	1264.6	1509.7	1650.5
41°	1192.2	1441.4	1619.0	1448.2	1201.7	1448.2	1619.0	1441.4	1192.2	1441.4	1619.0
41.5°	1120.2	1371.2	1588.5	1382.1	1130.2	1382.1	1588.5	1371.2	1120.2	1371.2	1588.5
42°	1050.0	1301.1	1558.0	1312.9	1061.0	1312.9	1558.0	1301.1	1050.0	1301.1	1558.0
42.5°	979.9	1231.8	1527.9	1243.7	990.8	1243.7	1527.9	1231.8	979.9	1231.8	1527.9
43°	910.6	1161.7	1497.9	1174.0	922.9	1174.0	1497.9	1161.7	910.6	1161.7	1497.9
43.5°	840.9	1093.3	1468.2	1105.6	854.6	1105.6	1468.2	1093.3	840.9	1093.3	1468.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	648.7	894.7	1379.0	910.2	665.1	910.2	1379.0	894.7	648.7	894.7	1379.0
45.5°	588.6	829.6	1349.3	845.5	607.2	845.5	1349.3	829.6	588.6	829.6	1349.3
46°	532.5	766.7	1319.3	781.7	551.7	781.7	1319.3	766.7	532.5	766.7	1319.3
46.5°	477.4	705.6	1288.3	719.8	495.2	719.8	1288.3	705.6	477.4	705.6	1288.3
47°	423.2	645.5	1245.0	659.2	440.5	659.2	1245.0	645.5	423.2	645.5	1245.0
47.5°	371.3	587.7	1192.2	602.7	391.8	602.7	1192.2	587.7	371.3	587.7	1192.2
48°	327.1	531.6	1129.3	547.1	349.0	547.1	1129.3	531.6	327.1	531.6	1129.3
48.5°	286.5	478.3	1062.8	493.4	308.9	493.4	1062.8	478.3	286.5	478.3	1062.8
49°	250.6	426.4	993.1	440.5	272.4	440.5	993.1	426.4	250.6	426.4	993.1
49.5°	219.1	376.3	921.6	393.1	238.3	393.1	921.6	376.3	219.1	376.3	921.6
50°	191.3	329.4	849.1	347.6	206.8	347.6	849.1	329.4	191.3	329.4	849.1
50.5°	165.4	287.0	777.6	305.7	177.2	305.7	777.6	287.0	165.4	287.0	777.6
51°	141.7	249.2	707.0	266.5	149.0	266.5	707.0	249.2	141.7	249.2	707.0
51.5°	122.5	215.9	641.0	231.0	125.3	231.0	641.0	215.9	122.5	215.9	641.0
52°	103.4	186.8	580.4	200.0	106.6	200.0	580.4	186.8	103.4	186.8	580.4
52.5°	87.0	160.8	521.1	171.3	93.8	171.3	521.1	160.8	87.0	160.8	521.1
53°	75.2	137.1	466.0	144.9	81.5	144.9	466.0	137.1	75.2	137.1	466.0
53.5°	64.2	117.1	411.8	120.3	68.8	120.3	411.8	117.1	64.2	117.1	411.8
54°	61.5	97.9	362.2	98.4	56.5	98.4	362.2	97.9	61.5	97.9	362.2
54.5°	58.8	82.0	314.8	81.5	53.8	81.5	314.8	82.0	58.8	82.0	314.8
55°	56.5	67.9	272.9	68.3	51.9	68.3	272.9	67.9	56.5	67.9	272.9
55.5°	54.2	57.9	235.1	58.8	49.7	58.8	235.1	57.9	54.2	57.9	235.1
56°	51.9	53.3	200.9	51.5	47.8	51.5	200.9	53.3	51.9	53.3	200.9
56.5°	49.7	51.0	170.4	47.8	46.0	47.8	170.4	51.0	49.7	51.0	170.4
57°	47.8	49.2	144.9	46.0	44.2	46.0	144.9	49.2	47.8	49.2	144.9
57.5°	45.6	47.4	122.5	44.2	42.4	44.2	122.5	47.4	45.6	47.4	122.5
58°	43.7	45.6	104.3	42.8	41.0	42.8	104.3	45.6	43.7	45.6	104.3
58.5°	41.9	43.7	87.9	41.0	39.2	41.0	87.9	43.7	41.9	43.7	87.9
59°	40.5	42.4	74.7	39.6	37.8	39.6	74.7	42.4	40.5	42.4	74.7
59.5°	38.7	41.0	63.3	38.3	36.4	38.3	63.3	41.0	38.7	41.0	63.3
60°	37.4	39.2	53.3	36.9	35.1	36.9	53.3	39.2	37.4	39.2	53.3
60.5°	35.5	37.8	47.4	35.5	33.3	35.5	47.4	37.8	35.5	37.8	47.4
61°	34.2	36.4	42.8	34.6	32.3	34.6	42.8	36.4	34.2	36.4	42.8
61.5°	32.8	35.1	39.2	33.3	31.0	33.3	39.2	35.1	32.8	35.1	39.2
62°	31.4	34.2	36.9	31.9	29.6	31.9	36.9	34.2	31.4	34.2	36.9
62.5°	30.1	32.8	35.1	31.0	28.7	31.0	35.1	32.8	30.1	32.8	35.1
63°	28.7	31.4	33.7	30.1	27.3	30.1	33.7	31.4	28.7	31.4	33.7
63.5°	27.8	30.5	32.3	28.7	26.4	28.7	32.3	30.5	27.8	30.5	32.3
64°	26.4	29.2	31.4	27.8	25.1	27.8	31.4	29.2	26.4	29.2	31.4
64.5°	25.5	28.2	30.1	26.9	24.1	26.9	30.1	28.2	25.5	28.2	30.1
65°	24.1	27.3	29.2	26.0	23.2	26.0	29.2	27.3	24.1	27.3	29.2
65.5°	23.2	26.0	27.8	25.1	22.3	25.1	27.8	26.0	23.2	26.0	27.8
66°	22.3	25.1	26.9	24.1	21.4	24.1	26.9	25.1	22.3	25.1	26.9



TEST NUMBER: P776825

CATALOG NUMBER: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	19.6	22.3	24.1	21.4	18.7	21.4	24.1	22.3	19.6	22.3	24.1
68°	18.7	21.4	23.2	20.5	18.2	20.5	23.2	21.4	18.7	21.4	23.2
68.5°	17.8	20.5	22.3	20.0	17.3	20.0	22.3	20.5	17.8	20.5	22.3
69°	17.3	19.6	21.4	19.1	16.4	19.1	21.4	19.6	17.3	19.6	21.4
69.5°	16.4	19.1	20.5	18.2	15.9	18.2	20.5	19.1	16.4	19.1	20.5
70°	15.5	18.2	19.6	17.8	15.0	17.8	19.6	18.2	15.5	18.2	19.6
70.5°	15.0	17.3	19.1	16.9	14.6	16.9	19.1	17.3	15.0	17.3	19.1
71°	14.1	16.9	18.2	16.4	14.1	16.4	18.2	16.9	14.1	16.9	18.2
71.5°	13.7	15.9	17.3	15.5	13.2	15.5	17.3	15.9	13.7	15.9	17.3
72°	12.8	15.5	16.9	15.0	12.8	15.0	16.9	15.5	12.8	15.5	16.9
72.5°	12.3	14.6	15.9	14.1	12.3	14.1	15.9	14.6	12.3	14.6	15.9
73°	11.8	14.1	15.0	13.7	11.4	13.7	15.0	14.1	11.8	14.1	15.0
73.5°	10.9	13.2	14.6	13.2	10.9	13.2	14.6	13.2	10.9	13.2	14.6
74°	10.5	12.8	13.7	12.3	10.5	12.3	13.7	12.8	10.5	12.8	13.7
74.5°	10.0	12.3	13.2	11.8	10.0	11.8	13.2	12.3	10.0	12.3	13.2
75°	9.6	11.4	12.3	11.4	9.6	11.4	12.3	11.4	9.6	11.4	12.3
75.5°	9.1	10.9	11.8	10.9	9.1	10.9	11.8	10.9	9.1	10.9	11.8
76°	8.7	10.5	11.4	10.0	8.7	10.0	11.4	10.5	8.7	10.5	11.4
76.5°	8.2	9.6	10.5	9.6	8.2	9.6	10.5	9.6	8.2	9.6	10.5
77°	7.3	9.1	10.0	9.1	7.7	9.1	10.0	9.1	7.3	9.1	10.0
77.5°	6.8	8.7	9.6	8.7	7.3	8.7	9.6	8.7	6.8	8.7	9.6
78°	6.8	8.2	8.7	8.2	6.8	8.2	8.7	8.2	6.8	8.2	8.7
78.5°	6.4	7.7	8.2	7.7	6.4	7.7	8.2	7.7	6.4	7.7	8.2
79°	5.9	7.3	7.7	7.3	5.9	7.3	7.7	7.3	5.9	7.3	7.7
79.5°	5.5	6.4	7.3	6.8	5.5	6.8	7.3	6.4	5.5	6.4	7.3
80°	5.0	5.9	6.8	6.4	5.5	6.4	6.8	5.9	5.0	5.9	6.8
80.5°	4.6	5.5	6.4	5.9	5.0	5.9	6.4	5.5	4.6	5.5	6.4
81°	4.1	5.0	5.9	5.5	4.6	5.5	5.9	5.0	4.1	5.0	5.9
81.5°	4.1	4.6	5.5	5.0	4.1	5.0	5.5	4.6	4.1	4.6	5.5
82°	3.6	4.1	5.0	4.6	4.1	4.6	5.0	4.1	3.6	4.1	5.0
82.5°	3.2	3.6	4.6	4.1	3.6	4.1	4.6	3.6	3.2	3.6	4.6
83°	2.7	3.6	4.1	3.6	3.2	3.6	4.1	3.6	2.7	3.6	4.1
83.5°	2.7	3.2	3.6	3.6	2.7	3.6	3.6	3.2	2.7	3.2	3.6
84°	2.3	2.7	3.2	3.2	2.7	3.2	3.2	2.7	2.3	2.7	3.2
84.5°	1.8	2.3	2.7	2.7	2.3	2.7	2.7	2.3	1.8	2.3	2.7
85°	1.8	1.8	2.3	2.3	1.8	2.3	2.3	1.8	1.8	1.8	2.3
85.5°	1.4	1.4	1.8	1.8	1.4	1.8	1.8	1.4	1.4	1.4	1.8
86°	0.9	1.4	1.8	1.8	1.4	1.8	1.8	1.4	0.9	1.4	1.8
86.5°	0.9	0.9	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	1.4
87°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.9	0.9
87.5°	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.9
88°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
88.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5



TEST NUMBER: P776825

CATALOG NUMBER: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776825

CATALOG NUMBER: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3254.0	3254.0	3254.0	3254.0	3254.0	3254.0
0.5°	3255.8	3254.9	3255.8	3254.5	3252.2	3250.8
1°	3254.9	3254.5	3254.9	3253.5	3251.7	3250.4
1.5°	3254.0	3253.5	3254.0	3252.6	3250.4	3249.0
2°	3252.6	3251.7	3252.6	3250.8	3248.5	3247.2
2.5°	3250.4	3249.9	3250.4	3249.0	3246.3	3244.9
3°	3248.1	3247.6	3248.1	3246.3	3244.0	3242.2
3.5°	3245.3	3244.9	3245.3	3243.5	3240.8	3239.0
4°	3242.2	3241.7	3242.2	3239.9	3237.1	3235.3
4.5°	3238.1	3237.6	3238.1	3235.8	3232.6	3231.2
5°	3234.0	3233.0	3234.0	3231.7	3228.0	3226.2
5.5°	3228.9	3227.6	3228.9	3226.7	3223.0	3221.2
6°	3223.5	3222.1	3223.5	3221.2	3217.1	3214.8
6.5°	3217.1	3215.3	3217.1	3215.3	3211.2	3208.4
7°	3209.8	3208.0	3209.8	3208.4	3204.3	3201.6
7.5°	3202.1	3199.8	3202.1	3201.2	3197.1	3193.9
8°	3193.9	3191.6	3193.9	3193.4	3189.3	3185.7
8.5°	3184.3	3182.0	3184.3	3184.8	3180.7	3177.0
9°	3174.7	3172.0	3174.7	3175.6	3171.5	3167.9
9.5°	3164.3	3161.5	3164.3	3166.1	3162.0	3158.3
10°	3153.8	3150.6	3153.8	3155.6	3152.4	3147.9
10.5°	3142.4	3139.2	3142.4	3144.7	3141.5	3136.9
11°	3130.5	3126.9	3130.5	3133.3	3130.5	3125.5
11.5°	3117.8	3114.1	3117.8	3121.0	3118.7	3113.7
12°	3105.0	3101.4	3105.0	3108.2	3106.4	3100.9
12.5°	3091.4	3087.3	3091.4	3095.0	3093.6	3087.7
13°	3077.2	3073.1	3077.2	3081.3	3080.0	3074.1
13.5°	3062.7	3058.1	3062.7	3066.8	3065.9	3059.9
14°	3047.6	3042.6	3047.6	3052.2	3051.7	3044.9
14.5°	3031.7	3026.7	3031.7	3036.7	3036.2	3029.9
15°	3015.3	3010.3	3015.3	3021.2	3020.8	3013.9
15.5°	2998.4	2993.0	2998.4	3004.4	3004.8	2997.5
16°	2981.1	2975.7	2981.1	2987.5	2988.0	2980.7
16.5°	2963.4	2957.4	2963.4	2969.7	2970.6	2963.4
17°	2944.7	2938.8	2944.7	2952.0	2952.9	2945.6
17.5°	2926.0	2919.6	2926.0	2933.3	2934.7	2926.9
18°	2906.4	2899.6	2906.4	2913.7	2915.5	2907.8
18.5°	2886.8	2879.1	2886.8	2894.6	2895.9	2888.2
19°	2866.3	2858.6	2866.3	2874.5	2876.3	2868.1
19.5°	2845.4	2837.2	2845.4	2853.6	2855.8	2847.2
20°	2824.4	2815.8	2824.4	2832.6	2834.9	2826.2
20.5°	2802.1	2793.4	2802.1	2811.2	2813.5	2804.8
21°	2779.8	2770.7	2779.8	2789.3	2791.2	2782.5



TEST NUMBER: P776825

CATALOG NUMBER: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2710.1	2701.4	2710.1	2720.1	2722.4	2712.8
23°	2685.9	2677.3	2685.9	2696.4	2698.2	2688.7
23.5°	2661.8	2653.6	2661.8	2672.3	2674.1	2663.6
24°	2637.2	2629.0	2637.2	2647.7	2648.6	2638.5
24.5°	2612.6	2603.0	2612.6	2622.6	2623.1	2612.1
25°	2587.5	2576.6	2587.5	2596.6	2597.1	2585.2
25.5°	2561.1	2550.2	2561.1	2570.7	2570.7	2558.4
26°	2535.6	2522.8	2535.6	2544.2	2543.3	2530.1
26.5°	2508.7	2494.1	2508.7	2517.4	2515.5	2501.9
27°	2481.4	2464.5	2481.4	2490.0	2487.3	2472.3
27.5°	2453.1	2434.9	2453.1	2462.7	2458.6	2443.1
28°	2424.0	2403.5	2424.0	2434.9	2429.0	2412.6
28.5°	2394.4	2371.6	2394.4	2406.2	2398.9	2381.6
29°	2364.3	2339.7	2364.3	2378.0	2369.3	2349.3
29.5°	2332.9	2306.9	2332.9	2349.7	2338.8	2316.9
30°	2301.4	2274.1	2301.4	2320.1	2307.4	2284.6
30.5°	2269.1	2240.4	2269.1	2291.0	2275.5	2251.3
31°	2237.2	2206.7	2237.2	2260.9	2243.1	2216.7
31.5°	2204.4	2172.1	2204.4	2231.3	2210.8	2183.0
32°	2171.6	2137.0	2171.6	2201.2	2177.5	2148.4
32.5°	2137.4	2101.9	2137.4	2170.7	2143.8	2113.3
33°	2104.6	2066.8	2104.6	2139.7	2110.1	2077.8
33.5°	2070.9	2030.8	2070.9	2108.3	2076.9	2042.2
34°	2037.2	1994.4	2037.2	2076.4	2042.7	2005.3
34.5°	2003.5	1957.5	2003.5	2044.5	2008.1	1968.9
35°	1968.9	1921.1	1968.9	2012.6	1973.4	1931.1
35.5°	1934.7	1884.6	1934.7	1979.4	1939.3	1894.6
36°	1900.1	1841.3	1900.1	1946.1	1904.2	1856.8
36.5°	1865.0	1792.6	1865.0	1913.8	1868.2	1816.3
37°	1829.9	1738.8	1829.9	1880.5	1833.1	1767.5
37.5°	1794.4	1683.3	1794.4	1847.7	1797.1	1703.8
38°	1759.3	1624.0	1759.3	1813.5	1761.6	1639.5
38.5°	1720.6	1563.4	1720.6	1780.7	1725.6	1568.5
39°	1675.5	1495.6	1675.5	1747.9	1688.3	1494.7
39.5°	1624.9	1424.1	1624.9	1715.6	1634.1	1417.7
40°	1569.8	1348.4	1569.8	1682.8	1575.7	1341.1
40.5°	1511.1	1273.7	1511.1	1650.5	1509.7	1264.6
41°	1448.2	1201.7	1448.2	1619.0	1441.4	1192.2
41.5°	1382.1	1130.2	1382.1	1588.5	1371.2	1120.2
42°	1312.9	1061.0	1312.9	1558.0	1301.1	1050.0
42.5°	1243.7	990.8	1243.7	1527.9	1231.8	979.9
43°	1174.0	922.9	1174.0	1497.9	1161.7	910.6
43.5°	1105.6	854.6	1105.6	1468.2	1093.3	840.9



TEST NUMBER: P776825

CATALOG NUMBER: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	910.2	665.1	910.2	1379.0	894.7	648.7
45.5°	845.5	607.2	845.5	1349.3	829.6	588.6
46°	781.7	551.7	781.7	1319.3	766.7	532.5
46.5°	719.8	495.2	719.8	1288.3	705.6	477.4
47°	659.2	440.5	659.2	1245.0	645.5	423.2
47.5°	602.7	391.8	602.7	1192.2	587.7	371.3
48°	547.1	349.0	547.1	1129.3	531.6	327.1
48.5°	493.4	308.9	493.4	1062.8	478.3	286.5
49°	440.5	272.4	440.5	993.1	426.4	250.6
49.5°	393.1	238.3	393.1	921.6	376.3	219.1
50°	347.6	206.8	347.6	849.1	329.4	191.3
50.5°	305.7	177.2	305.7	777.6	287.0	165.4
51°	266.5	149.0	266.5	707.0	249.2	141.7
51.5°	231.0	125.3	231.0	641.0	215.9	122.5
52°	200.0	106.6	200.0	580.4	186.8	103.4
52.5°	171.3	93.8	171.3	521.1	160.8	87.0
53°	144.9	81.5	144.9	466.0	137.1	75.2
53.5°	120.3	68.8	120.3	411.8	117.1	64.2
54°	98.4	56.5	98.4	362.2	97.9	61.5
54.5°	81.5	53.8	81.5	314.8	82.0	58.8
55°	68.3	51.9	68.3	272.9	67.9	56.5
55.5°	58.8	49.7	58.8	235.1	57.9	54.2
56°	51.5	47.8	51.5	200.9	53.3	51.9
56.5°	47.8	46.0	47.8	170.4	51.0	49.7
57°	46.0	44.2	46.0	144.9	49.2	47.8
57.5°	44.2	42.4	44.2	122.5	47.4	45.6
58°	42.8	41.0	42.8	104.3	45.6	43.7
58.5°	41.0	39.2	41.0	87.9	43.7	41.9
59°	39.6	37.8	39.6	74.7	42.4	40.5
59.5°	38.3	36.4	38.3	63.3	41.0	38.7
60°	36.9	35.1	36.9	53.3	39.2	37.4
60.5°	35.5	33.3	35.5	47.4	37.8	35.5
61°	34.6	32.3	34.6	42.8	36.4	34.2
61.5°	33.3	31.0	33.3	39.2	35.1	32.8
62°	31.9	29.6	31.9	36.9	34.2	31.4
62.5°	31.0	28.7	31.0	35.1	32.8	30.1
63°	30.1	27.3	30.1	33.7	31.4	28.7
63.5°	28.7	26.4	28.7	32.3	30.5	27.8
64°	27.8	25.1	27.8	31.4	29.2	26.4
64.5°	26.9	24.1	26.9	30.1	28.2	25.5
65°	26.0	23.2	26.0	29.2	27.3	24.1
65.5°	25.1	22.3	25.1	27.8	26.0	23.2
66°	24.1	21.4	24.1	26.9	25.1	22.3



TEST NUMBER: P776825

CATALOG NUMBER: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	21.4	18.7	21.4	24.1	22.3	19.6
68°	20.5	18.2	20.5	23.2	21.4	18.7
68.5°	20.0	17.3	20.0	22.3	20.5	17.8
69°	19.1	16.4	19.1	21.4	19.6	17.3
69.5°	18.2	15.9	18.2	20.5	19.1	16.4
70°	17.8	15.0	17.8	19.6	18.2	15.5
70.5°	16.9	14.6	16.9	19.1	17.3	15.0
71°	16.4	14.1	16.4	18.2	16.9	14.1
71.5°	15.5	13.2	15.5	17.3	15.9	13.7
72°	15.0	12.8	15.0	16.9	15.5	12.8
72.5°	14.1	12.3	14.1	15.9	14.6	12.3
73°	13.7	11.4	13.7	15.0	14.1	11.8
73.5°	13.2	10.9	13.2	14.6	13.2	10.9
74°	12.3	10.5	12.3	13.7	12.8	10.5
74.5°	11.8	10.0	11.8	13.2	12.3	10.0
75°	11.4	9.6	11.4	12.3	11.4	9.6
75.5°	10.9	9.1	10.9	11.8	10.9	9.1
76°	10.0	8.7	10.0	11.4	10.5	8.7
76.5°	9.6	8.2	9.6	10.5	9.6	8.2
77°	9.1	7.7	9.1	10.0	9.1	7.3
77.5°	8.7	7.3	8.7	9.6	8.7	6.8
78°	8.2	6.8	8.2	8.7	8.2	6.8
78.5°	7.7	6.4	7.7	8.2	7.7	6.4
79°	7.3	5.9	7.3	7.7	7.3	5.9
79.5°	6.8	5.5	6.8	7.3	6.4	5.5
80°	6.4	5.5	6.4	6.8	5.9	5.0
80.5°	5.9	5.0	5.9	6.4	5.5	4.6
81°	5.5	4.6	5.5	5.9	5.0	4.1
81.5°	5.0	4.1	5.0	5.5	4.6	4.1
82°	4.6	4.1	4.6	5.0	4.1	3.6
82.5°	4.1	3.6	4.1	4.6	3.6	3.2
83°	3.6	3.2	3.6	4.1	3.6	2.7
83.5°	3.6	2.7	3.6	3.6	3.2	2.7
84°	3.2	2.7	3.2	3.2	2.7	2.3
84.5°	2.7	2.3	2.7	2.7	2.3	1.8
85°	2.3	1.8	2.3	2.3	1.8	1.8
85.5°	1.8	1.8	1.8	1.8	1.4	1.4
86°	1.8	1.4	1.8	1.8	1.4	0.9
86.5°	1.4	1.4	1.4	1.4	0.9	0.9
87°	0.9	0.9	0.9	0.9	0.9	0.5
87.5°	0.9	0.9	0.9	0.9	0.5	0.5
88°	0.5	0.5	0.5	0.5	0.5	0.5
88.5°	0.5	0.5	0.5	0.5	0.0	0.0



TEST NUMBER: P776825

CATALOG NUMBER: HCDJBL54050CSD-HCD8TSQH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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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Cooper Lighting Solutions Photometric Lab
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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°	2760.2	2768.8	2766.6	2757.0	2748.3	2757.0	2766.6	2768.8	2760.2	2768.8	2766.6
22°	2736.0	2746.1	2743.3	2733.8	2724.6	2733.8	2743.3	2746.1	2736.0	2746.1	2743.3



44°	774.0	1026.8	1438.2	1040.0	788.1	1040.0	1438.2	1026.8	774.0	1026.8	1438.2
44.5°	711.1	961.7	1409.0	974.9	723.0	974.9	1409.0	961.7	711.1	961.7	1409.0



66.5°	21.4	24.1	26.0	23.2	20.5	23.2	26.0	24.1	21.4	24.1	26.0
67°	20.5	23.2	25.1	22.3	19.6	22.3	25.1	23.2	20.5	23.2	25.1



89°	0.0	0.0	0.0	0.0	0.5	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	0.0

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21.5°	2757.0	2748.3	2757.0	2766.6	2768.8	2760.2
22°	2733.8	2724.6	2733.8	2743.3	2746.1	2736.0



44°	1040.0	788.1	1040.0	1438.2	1026.8	774.0
44.5°	974.9	723.0	974.9	1409.0	961.7	711.1

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Scaled Data Report



66.5°	23.2	20.5	23.2	26.0	24.1	21.4
67°	22.3	19.6	22.3	25.1	23.2	20.5

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Scaled Data Report



89°	0.0	0.5	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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)