

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: P776673

Luminaire Tested: HCDJBS4050CSD-HCD62TRC-5000lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B055-HCD62TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS4050CSD-HCD62TRC-5000lm-4000K
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

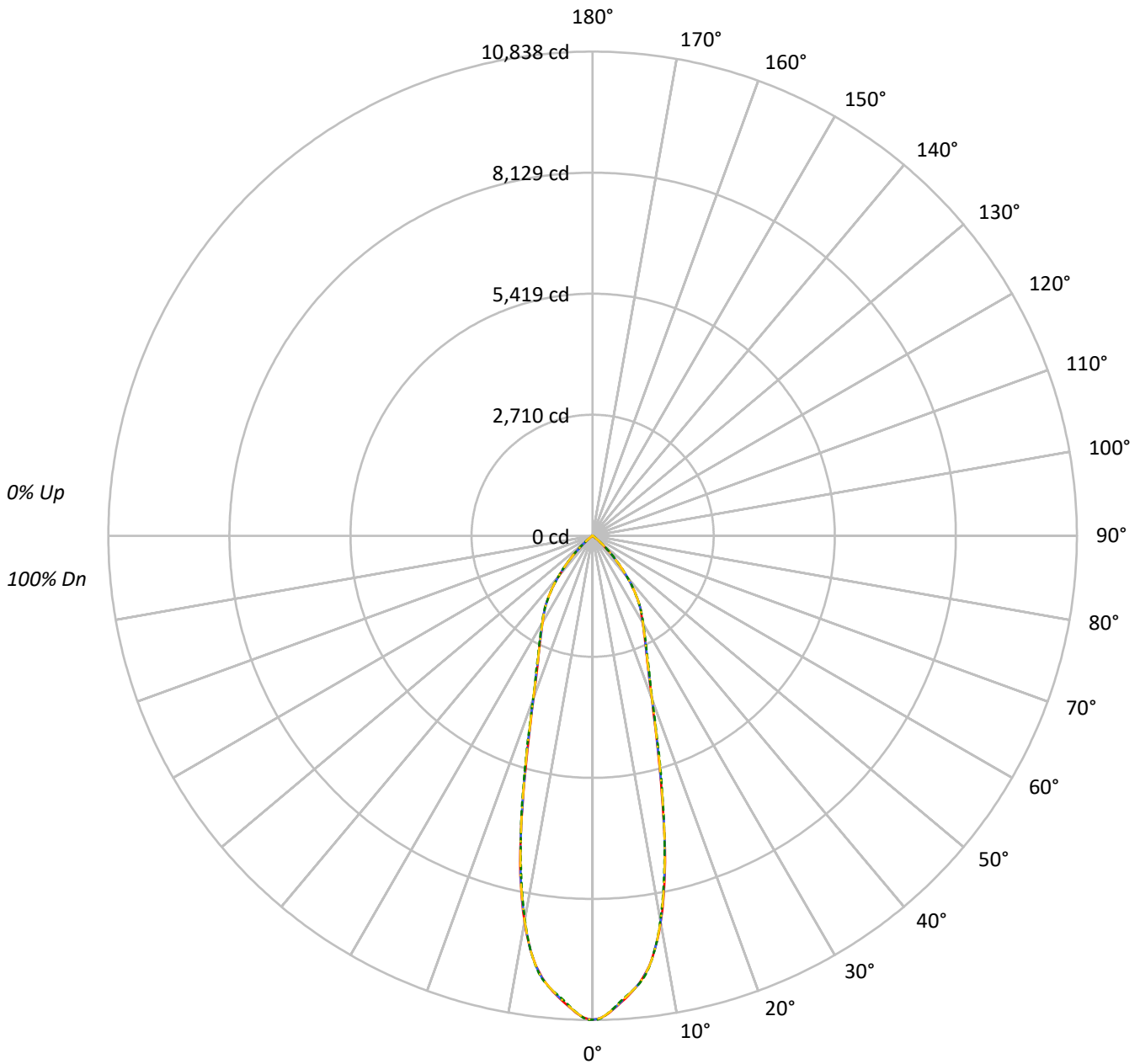
Lumens per Lamp: N/A
Luminaire Lumens: 5544.7 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82	82	82	82	82	82		
	4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57	57	57	57	57	57		
	10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55	55	55	55	55	55		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	593801	593801	593801	593801
5°	563211	562578	563211	562578
10°	488485	485690	488485	485690
15°	339769	343765	339769	343765
20°	225490	227887	225490	227887
25°	171397	173823	171397	173823
30°	141718	143446	141718	143446
35°	118608	118701	118608	118701
40°	84473	85811	84473	85811
45°	47369	49711	47369	49711
50°	16119	19181	16119	19181
55°	1147	2466	1147	2466
60°	208	208	208	208
65°	130	130	130	130
70°	80	80	80	80
75°	106	106	106	106
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 49711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.1	16.8
10°-20°	1662.4	30.0
20°-30°	1327.5	23.9
30°-40°	1086.6	19.6
40°-50°	490.7	8.9
50°-60°	42.0	0.8
60°-70°	1.0	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°	3924.0	70.8
0°-40°	5010.6	90.4
0°-60°	5543.3	100.0
0°-90°	5544.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5544.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10832	10832	10832	10832	10832	
5°	10235	10223	10235	10223	10235	934
15°	5987	6057	5987	6057	5987	1659
25°	2834	2874	2834	2874	2834	1320
35°	1772	1774	1772	1774	1772	1084
45°	611	641	611	641	611	482
55°	12	26	12	26	12	37
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°	10831.8	10831.8	10831.8	10831.8	10831.8	10831.8	10831.8	10831.8	10831.8	10831.8	10831.8
0.5°	10818.9	10818.9	10818.9	10820.8	10837.6	10820.8	10818.9	10818.9	10818.9	10818.9	10818.9
1°	10790.2	10790.2	10788.7	10789.2	10800.7	10789.2	10788.7	10790.2	10790.2	10790.2	10788.7
1.5°	10743.3	10742.8	10739.0	10736.6	10743.8	10736.6	10739.0	10742.8	10743.3	10742.8	10739.0
2°	10684.0	10681.1	10675.8	10670.1	10671.0	10670.1	10675.8	10681.1	10684.0	10681.1	10675.8
2.5°	10613.1	10611.2	10603.6	10594.0	10591.1	10594.0	10603.6	10611.2	10613.1	10611.2	10603.6
3°	10538.5	10536.1	10527.5	10514.6	10509.3	10514.6	10527.5	10536.1	10538.5	10536.1	10527.5
3.5°	10463.9	10460.5	10450.5	10437.5	10430.8	10437.5	10450.5	10460.5	10463.9	10460.5	10450.5
4°	10389.7	10384.4	10374.9	10364.8	10358.1	10364.8	10374.9	10384.4	10389.7	10384.4	10374.9
4.5°	10313.1	10308.4	10301.2	10294.5	10289.2	10294.5	10301.2	10308.4	10313.1	10308.4	10301.2
5°	10234.7	10231.3	10227.0	10224.1	10223.2	10224.1	10227.0	10231.3	10234.7	10231.3	10227.0
5.5°	10150.0	10148.1	10148.1	10150.0	10153.8	10150.0	10148.1	10148.1	10150.0	10148.1	10148.1
6°	10058.1	10058.1	10061.0	10068.6	10072.9	10068.6	10061.0	10058.1	10058.1	10058.1	10061.0
6.5°	9955.7	9958.1	9963.8	9972.0	9977.7	9972.0	9963.8	9958.1	9955.7	9958.1	9963.8
7°	9839.4	9844.2	9849.5	9858.1	9864.8	9858.1	9849.5	9844.2	9839.4	9844.2	9849.5
7.5°	9707.9	9709.8	9716.5	9722.7	9726.5	9722.7	9716.5	9709.8	9707.9	9709.8	9716.5
8°	9557.6	9558.6	9562.4	9566.2	9568.1	9566.2	9562.4	9558.6	9557.6	9558.6	9562.4
8.5°	9385.8	9385.8	9386.3	9385.4	9382.0	9385.4	9386.3	9385.8	9385.8	9385.8	9386.3
9°	9197.8	9197.3	9193.0	9186.3	9183.4	9186.3	9193.0	9197.3	9197.8	9197.3	9193.0
9.5°	8993.0	8991.6	8980.6	8971.0	8963.3	8971.0	8980.6	8991.6	8993.0	8991.6	8980.6
10°	8775.3	8770.5	8754.7	8737.0	8725.1	8737.0	8754.7	8770.5	8775.3	8770.5	8754.7
10.5°	8543.7	8533.7	8516.0	8494.4	8477.2	8494.4	8516.0	8533.7	8543.7	8533.7	8516.0
11°	8296.3	8287.7	8264.8	8247.1	8231.3	8247.1	8264.8	8287.7	8296.3	8287.7	8264.8
11.5°	8039.9	8032.2	8012.6	7986.8	7974.3	7986.8	8012.6	8032.2	8039.9	8032.2	8012.6
12°	7774.3	7768.1	7744.2	7720.3	7704.0	7720.3	7744.2	7768.1	7774.3	7768.1	7744.2
12.5°	7495.4	7484.8	7465.7	7442.7	7428.4	7442.7	7465.7	7484.8	7495.4	7484.8	7465.7
13°	7203.5	7198.2	7180.5	7167.1	7158.5	7167.1	7180.5	7198.2	7203.5	7198.2	7180.5
13.5°	6890.6	6894.4	6890.1	6885.3	6881.0	6885.3	6890.1	6894.4	6890.6	6894.4	6890.1
14°	6581.5	6588.2	6593.4	6600.1	6605.4	6600.1	6593.4	6588.2	6581.5	6588.2	6593.4
14.5°	6275.3	6285.8	6303.5	6320.7	6333.1	6320.7	6303.5	6285.8	6275.3	6285.8	6303.5
15°	5986.7	5995.3	6019.3	6041.8	6057.1	6041.8	6019.3	5995.3	5986.7	5995.3	6019.3
15.5°	5714.0	5725.5	5746.5	5771.4	5790.1	5771.4	5746.5	5725.5	5714.0	5725.5	5746.5
16°	5460.9	5468.1	5486.7	5516.4	5537.9	5516.4	5486.7	5468.1	5460.9	5468.1	5486.7
16.5°	5218.3	5224.0	5246.5	5273.3	5293.9	5273.3	5246.5	5224.0	5218.3	5224.0	5246.5
17°	4986.2	4992.5	5012.5	5039.3	5060.9	5039.3	5012.5	4992.5	4986.2	4992.5	5012.5
17.5°	4766.1	4772.4	4792.0	4814.0	4833.1	4814.0	4792.0	4772.4	4766.1	4772.4	4792.0
18°	4560.9	4566.1	4579.5	4600.6	4619.7	4600.6	4579.5	4566.1	4560.9	4566.1	4579.5
18.5°	4368.5	4369.9	4383.3	4409.2	4414.9	4409.2	4383.3	4369.9	4368.5	4369.9	4383.3
19°	4183.8	4187.6	4207.3	4231.7	4232.6	4231.7	4207.3	4187.6	4183.8	4187.6	4207.3
19.5°	4013.0	4023.5	4041.2	4062.3	4064.2	4062.3	4041.2	4023.5	4013.0	4023.5	4041.2
20°	3865.2	3867.5	3882.4	3903.9	3906.3	3903.9	3882.4	3867.5	3865.2	3867.5	3882.4
20.5°	3723.5	3727.4	3735.0	3754.1	3758.9	3754.1	3735.0	3727.4	3723.5	3727.4	3735.0
21°	3586.7	3592.9	3610.1	3621.6	3628.3	3621.6	3610.1	3592.9	3586.7	3592.9	3610.1



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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°	3248.9	3252.7	3273.8	3292.9	3311.1	3292.9	3273.8	3252.7	3248.9	3252.7	3273.8
23°	3155.6	3159.4	3172.8	3195.8	3216.3	3195.8	3172.8	3159.4	3155.6	3159.4	3172.8
23.5°	3067.5	3070.4	3083.3	3100.5	3123.5	3100.5	3083.3	3070.4	3067.5	3070.4	3083.3
24°	2984.3	2987.1	2998.6	3016.8	3032.1	3016.8	2998.6	2987.1	2984.3	2987.1	2998.6
24.5°	2907.2	2908.7	2917.8	2937.4	2949.8	2937.4	2917.8	2908.7	2907.2	2908.7	2917.8
25°	2833.6	2835.0	2842.2	2862.3	2873.7	2862.3	2842.2	2835.0	2833.6	2835.0	2842.2
25.5°	2762.7	2763.7	2771.4	2790.5	2801.0	2790.5	2771.4	2763.7	2762.7	2763.7	2771.4
26°	2694.8	2695.8	2702.9	2722.1	2732.6	2722.1	2702.9	2695.8	2694.8	2695.8	2702.9
26.5°	2628.3	2629.7	2636.4	2654.6	2665.1	2654.6	2636.4	2629.7	2628.3	2629.7	2636.4
27°	2566.1	2567.5	2573.3	2591.0	2602.9	2591.0	2573.3	2567.5	2566.1	2567.5	2573.3
27.5°	2507.2	2508.2	2513.5	2529.7	2541.2	2529.7	2513.5	2508.2	2507.2	2508.2	2513.5
28°	2450.3	2450.8	2456.5	2471.3	2481.9	2471.3	2456.5	2450.8	2450.3	2450.8	2456.5
28.5°	2395.3	2395.3	2401.0	2414.4	2425.4	2414.4	2401.0	2395.3	2395.3	2395.3	2401.0
29°	2342.2	2341.7	2346.5	2359.9	2369.9	2359.9	2346.5	2341.7	2342.2	2341.7	2346.5
29.5°	2289.0	2289.0	2294.8	2306.3	2316.3	2306.3	2294.8	2289.0	2289.0	2289.0	2294.8
30°	2238.8	2238.8	2244.5	2255.6	2266.1	2255.6	2244.5	2238.8	2238.8	2238.8	2244.5
30.5°	2190.5	2190.5	2195.7	2206.3	2216.3	2206.3	2195.7	2190.5	2190.5	2190.5	2195.7
31°	2144.5	2144.1	2150.3	2159.9	2169.9	2159.9	2150.3	2144.1	2144.5	2144.1	2150.3
31.5°	2100.5	2099.6	2104.8	2113.4	2123.5	2113.4	2104.8	2099.6	2100.5	2099.6	2104.8
32°	2058.4	2057.5	2062.2	2069.4	2076.6	2069.4	2062.2	2057.5	2058.4	2057.5	2062.2
32.5°	2016.3	2015.8	2017.7	2023.5	2028.3	2023.5	2017.7	2015.8	2016.3	2015.8	2017.7
33°	1972.8	1971.3	1971.3	1975.6	1979.9	1975.6	1971.3	1971.3	1972.8	1971.3	1971.3
33.5°	1926.4	1924.0	1924.4	1926.4	1932.6	1926.4	1924.4	1924.0	1926.4	1924.0	1924.4
34°	1877.1	1874.7	1874.7	1873.2	1879.9	1873.2	1874.7	1874.7	1877.1	1874.7	1874.7
34.5°	1825.9	1823.0	1824.0	1822.0	1827.8	1822.0	1824.0	1823.0	1825.9	1823.0	1824.0
35°	1772.3	1771.3	1770.9	1770.9	1773.7	1770.9	1770.9	1771.3	1772.3	1771.3	1770.9
35.5°	1717.7	1716.3	1715.8	1718.7	1718.7	1718.7	1715.8	1716.3	1717.7	1716.3	1715.8
36°	1661.8	1661.3	1661.3	1664.6	1662.2	1664.6	1661.3	1661.3	1661.8	1661.3	1661.3
36.5°	1603.4	1605.3	1605.3	1610.1	1606.3	1610.1	1605.3	1605.3	1603.4	1605.3	1605.3
37°	1544.5	1547.4	1549.3	1553.6	1548.8	1553.6	1549.3	1547.4	1544.5	1547.4	1549.3
37.5°	1486.6	1488.5	1494.8	1495.7	1491.9	1495.7	1494.8	1488.5	1486.6	1488.5	1494.8
38°	1428.3	1428.7	1436.4	1435.4	1435.0	1435.4	1436.4	1428.7	1428.3	1428.7	1436.4
38.5°	1368.9	1368.0	1377.1	1374.7	1376.6	1374.7	1377.1	1368.0	1368.9	1368.0	1377.1
39°	1306.7	1307.7	1317.7	1313.4	1318.7	1313.4	1317.7	1307.7	1306.7	1307.7	1317.7
39.5°	1243.6	1246.4	1257.9	1253.1	1258.9	1253.1	1257.9	1246.4	1243.6	1246.4	1257.9
40°	1180.4	1185.7	1197.6	1193.3	1199.1	1193.3	1197.6	1185.7	1180.4	1185.7	1197.6
40.5°	1120.1	1125.4	1136.4	1135.4	1139.3	1135.4	1136.4	1125.4	1120.1	1125.4	1136.4
41°	1060.8	1065.6	1075.1	1077.1	1079.4	1077.1	1075.1	1065.6	1060.8	1065.6	1075.1
41.5°	1002.4	1006.7	1013.9	1020.1	1021.1	1020.1	1013.9	1006.7	1002.4	1006.7	1013.9
42°	944.5	947.9	953.6	962.7	963.7	962.7	953.6	947.9	944.5	947.9	953.6
42.5°	888.1	890.4	894.3	906.2	908.6	906.2	894.3	890.4	888.1	890.4	894.3
43°	831.1	833.0	835.9	849.3	853.6	849.3	835.9	833.0	831.1	833.0	835.9
43.5°	775.1	775.6	779.4	792.8	799.1	792.8	779.4	775.6	775.1	775.6	779.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	611.0	612.5	619.2	633.5	641.2	633.5	619.2	612.5	611.0	612.5	619.2
45.5°	560.3	562.2	568.9	583.7	590.4	583.7	568.9	562.2	560.3	562.2	568.9
46°	512.5	512.9	520.1	534.0	541.6	534.0	520.1	512.9	512.5	512.9	520.1
46.5°	465.1	466.0	472.3	485.2	494.7	485.2	472.3	466.0	465.1	466.0	472.3
47°	419.1	420.1	427.3	439.7	449.3	439.7	427.3	420.1	419.1	420.1	427.3
47.5°	373.7	376.6	385.2	395.7	407.2	395.7	385.2	376.6	373.7	376.6	385.2
48°	332.5	334.5	344.5	355.0	365.1	355.0	344.5	334.5	332.5	334.5	344.5
48.5°	292.8	294.7	305.7	316.8	327.3	316.8	305.7	294.7	292.8	294.7	305.7
49°	256.0	257.9	269.4	280.4	292.8	280.4	269.4	257.9	256.0	257.9	269.4
49.5°	221.1	224.9	235.4	246.4	258.9	246.4	235.4	224.9	221.1	224.9	235.4
50°	189.0	193.3	204.3	214.4	224.9	214.4	204.3	193.3	189.0	193.3	204.3
50.5°	159.3	166.0	175.6	184.2	190.9	184.2	175.6	166.0	159.3	166.0	175.6
51°	133.5	140.2	148.8	156.0	159.8	156.0	148.8	140.2	133.5	140.2	148.8
51.5°	112.4	117.2	123.4	131.1	134.0	131.1	123.4	117.2	112.4	117.2	123.4
52°	93.3	97.6	102.4	109.1	110.5	109.1	102.4	97.6	93.3	97.6	102.4
52.5°	76.6	78.5	84.2	90.0	89.0	90.0	84.2	78.5	76.6	78.5	84.2
53°	59.8	63.2	67.0	71.8	70.8	71.8	67.0	63.2	59.8	63.2	67.0
53.5°	43.1	47.8	51.7	55.0	54.5	55.0	51.7	47.8	43.1	47.8	51.7
54°	31.1	33.0	37.3	41.6	45.0	41.6	37.3	33.0	31.1	33.0	37.3
54.5°	19.6	22.0	26.8	29.7	35.4	29.7	26.8	22.0	19.6	22.0	26.8
55°	12.0	13.9	18.2	20.6	25.8	20.6	18.2	13.9	12.0	13.9	18.2
55.5°	8.6	8.6	10.5	12.9	16.7	12.9	10.5	8.6	8.6	10.5	12.9
56°	6.2	5.7	6.7	8.1	8.6	8.1	6.7	5.7	6.2	5.7	6.7
56.5°	4.3	3.8	4.8	6.2	4.8	6.2	4.8	3.8	4.3	3.8	4.8
57°	2.4	3.3	3.3	4.3	2.9	4.3	3.3	3.3	2.4	3.3	3.3
57.5°	2.4	2.4	2.4	3.3	2.4	3.3	2.4	2.4	2.4	2.4	2.4
58°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
58.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
59°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
59.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
60.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
61°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
61.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
64°	1.0	1.0	1.0	1.0	1.0	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: P776673

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5
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: P776673

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-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: P776673

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	10831.8	10831.8	10831.8	10831.8	10831.8	10831.8
0.5°	10820.8	10837.6	10820.8	10818.9	10818.9	10818.9
1°	10789.2	10800.7	10789.2	10788.7	10790.2	10790.2
1.5°	10736.6	10743.8	10736.6	10739.0	10742.8	10743.3
2°	10670.1	10671.0	10670.1	10675.8	10681.1	10684.0
2.5°	10594.0	10591.1	10594.0	10603.6	10611.2	10613.1
3°	10514.6	10509.3	10514.6	10527.5	10536.1	10538.5
3.5°	10437.5	10430.8	10437.5	10450.5	10460.5	10463.9
4°	10364.8	10358.1	10364.8	10374.9	10384.4	10389.7
4.5°	10294.5	10289.2	10294.5	10301.2	10308.4	10313.1
5°	10224.1	10223.2	10224.1	10227.0	10231.3	10234.7
5.5°	10150.0	10153.8	10150.0	10148.1	10148.1	10150.0
6°	10068.6	10072.9	10068.6	10061.0	10058.1	10058.1
6.5°	9972.0	9977.7	9972.0	9963.8	9958.1	9955.7
7°	9858.1	9864.8	9858.1	9849.5	9844.2	9839.4
7.5°	9722.7	9726.5	9722.7	9716.5	9709.8	9707.9
8°	9566.2	9568.1	9566.2	9562.4	9558.6	9557.6
8.5°	9385.4	9382.0	9385.4	9386.3	9385.8	9385.8
9°	9186.3	9183.4	9186.3	9193.0	9197.3	9197.8
9.5°	8971.0	8963.3	8971.0	8980.6	8991.6	8993.0
10°	8737.0	8725.1	8737.0	8754.7	8770.5	8775.3
10.5°	8494.4	8477.2	8494.4	8516.0	8533.7	8543.7
11°	8247.1	8231.3	8247.1	8264.8	8287.7	8296.3
11.5°	7986.8	7974.3	7986.8	8012.6	8032.2	8039.9
12°	7720.3	7704.0	7720.3	7744.2	7768.1	7774.3
12.5°	7442.7	7428.4	7442.7	7465.7	7484.8	7495.4
13°	7167.1	7158.5	7167.1	7180.5	7198.2	7203.5
13.5°	6885.3	6881.0	6885.3	6890.1	6894.4	6890.6
14°	6600.1	6605.4	6600.1	6593.4	6588.2	6581.5
14.5°	6320.7	6333.1	6320.7	6303.5	6285.8	6275.3
15°	6041.8	6057.1	6041.8	6019.3	5995.3	5986.7
15.5°	5771.4	5790.1	5771.4	5746.5	5725.5	5714.0
16°	5516.4	5537.9	5516.4	5486.7	5468.1	5460.9
16.5°	5273.3	5293.9	5273.3	5246.5	5224.0	5218.3
17°	5039.3	5060.9	5039.3	5012.5	4992.5	4986.2
17.5°	4814.0	4833.1	4814.0	4792.0	4772.4	4766.1
18°	4600.6	4619.7	4600.6	4579.5	4566.1	4560.9
18.5°	4409.2	4414.9	4409.2	4383.3	4369.9	4368.5
19°	4231.7	4232.6	4231.7	4207.3	4187.6	4183.8
19.5°	4062.3	4064.2	4062.3	4041.2	4023.5	4013.0
20°	3903.9	3906.3	3903.9	3882.4	3867.5	3865.2
20.5°	3754.1	3758.9	3754.1	3735.0	3727.4	3723.5
21°	3621.6	3628.3	3621.6	3610.1	3592.9	3586.7



TEST NUMBER: P776673

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3292.9	3311.1	3292.9	3273.8	3252.7	3248.9
23°	3195.8	3216.3	3195.8	3172.8	3159.4	3155.6
23.5°	3100.5	3123.5	3100.5	3083.3	3070.4	3067.5
24°	3016.8	3032.1	3016.8	2998.6	2987.1	2984.3
24.5°	2937.4	2949.8	2937.4	2917.8	2908.7	2907.2
25°	2862.3	2873.7	2862.3	2842.2	2835.0	2833.6
25.5°	2790.5	2801.0	2790.5	2771.4	2763.7	2762.7
26°	2722.1	2732.6	2722.1	2702.9	2695.8	2694.8
26.5°	2654.6	2665.1	2654.6	2636.4	2629.7	2628.3
27°	2591.0	2602.9	2591.0	2573.3	2567.5	2566.1
27.5°	2529.7	2541.2	2529.7	2513.5	2508.2	2507.2
28°	2471.3	2481.9	2471.3	2456.5	2450.8	2450.3
28.5°	2414.4	2425.4	2414.4	2401.0	2395.3	2395.3
29°	2359.9	2369.9	2359.9	2346.5	2341.7	2342.2
29.5°	2306.3	2316.3	2306.3	2294.8	2289.0	2289.0
30°	2255.6	2266.1	2255.6	2244.5	2238.8	2238.8
30.5°	2206.3	2216.3	2206.3	2195.7	2190.5	2190.5
31°	2159.9	2169.9	2159.9	2150.3	2144.1	2144.5
31.5°	2113.4	2123.5	2113.4	2104.8	2099.6	2100.5
32°	2069.4	2076.6	2069.4	2062.2	2057.5	2058.4
32.5°	2023.5	2028.3	2023.5	2017.7	2015.8	2016.3
33°	1975.6	1979.9	1975.6	1971.3	1971.3	1972.8
33.5°	1926.4	1932.6	1926.4	1924.4	1924.0	1926.4
34°	1873.2	1879.9	1873.2	1874.7	1874.7	1877.1
34.5°	1822.0	1827.8	1822.0	1824.0	1823.0	1825.9
35°	1770.9	1773.7	1770.9	1770.9	1771.3	1772.3
35.5°	1718.7	1718.7	1718.7	1715.8	1716.3	1717.7
36°	1664.6	1662.2	1664.6	1661.3	1661.3	1661.8
36.5°	1610.1	1606.3	1610.1	1605.3	1605.3	1603.4
37°	1553.6	1548.8	1553.6	1549.3	1547.4	1544.5
37.5°	1495.7	1491.9	1495.7	1494.8	1488.5	1486.6
38°	1435.4	1435.0	1435.4	1436.4	1428.7	1428.3
38.5°	1374.7	1376.6	1374.7	1377.1	1368.0	1368.9
39°	1313.4	1318.7	1313.4	1317.7	1307.7	1306.7
39.5°	1253.1	1258.9	1253.1	1257.9	1246.4	1243.6
40°	1193.3	1199.1	1193.3	1197.6	1185.7	1180.4
40.5°	1135.4	1139.3	1135.4	1136.4	1125.4	1120.1
41°	1077.1	1079.4	1077.1	1075.1	1065.6	1060.8
41.5°	1020.1	1021.1	1020.1	1013.9	1006.7	1002.4
42°	962.7	963.7	962.7	953.6	947.9	944.5
42.5°	906.2	908.6	906.2	894.3	890.4	888.1
43°	849.3	853.6	849.3	835.9	833.0	831.1
43.5°	792.8	799.1	792.8	779.4	775.6	775.1



TEST NUMBER: P776673

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	633.5	641.2	633.5	619.2	612.5	611.0
45.5°	583.7	590.4	583.7	568.9	562.2	560.3
46°	534.0	541.6	534.0	520.1	512.9	512.5
46.5°	485.2	494.7	485.2	472.3	466.0	465.1
47°	439.7	449.3	439.7	427.3	420.1	419.1
47.5°	395.7	407.2	395.7	385.2	376.6	373.7
48°	355.0	365.1	355.0	344.5	334.5	332.5
48.5°	316.8	327.3	316.8	305.7	294.7	292.8
49°	280.4	292.8	280.4	269.4	257.9	256.0
49.5°	246.4	258.9	246.4	235.4	224.9	221.1
50°	214.4	224.9	214.4	204.3	193.3	189.0
50.5°	184.2	190.9	184.2	175.6	166.0	159.3
51°	156.0	159.8	156.0	148.8	140.2	133.5
51.5°	131.1	134.0	131.1	123.4	117.2	112.4
52°	109.1	110.5	109.1	102.4	97.6	93.3
52.5°	90.0	89.0	90.0	84.2	78.5	76.6
53°	71.8	70.8	71.8	67.0	63.2	59.8
53.5°	55.0	54.5	55.0	51.7	47.8	43.1
54°	41.6	45.0	41.6	37.3	33.0	31.1
54.5°	29.7	35.4	29.7	26.8	22.0	19.6
55°	20.6	25.8	20.6	18.2	13.9	12.0
55.5°	12.9	16.7	12.9	10.5	8.6	8.6
56°	8.1	8.6	8.1	6.7	5.7	6.2
56.5°	6.2	4.8	6.2	4.8	3.8	4.3
57°	4.3	2.9	4.3	3.3	3.3	2.4
57.5°	3.3	2.4	3.3	2.4	2.4	2.4
58°	2.4	2.4	2.4	2.4	2.4	2.4
58.5°	1.9	1.9	1.9	1.9	1.9	1.9
59°	1.9	1.9	1.9	1.9	1.9	1.9
59.5°	1.9	1.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9
60.5°	1.4	1.4	1.4	1.4	1.4	1.4
61°	1.4	1.4	1.4	1.4	1.4	1.4
61.5°	1.4	1.4	1.4	1.4	1.4	1.4
62°	1.4	1.4	1.4	1.4	1.4	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°	1.0	1.0	1.0	1.0	1.0	1.0
64°	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
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: P776673

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.0	0.5	1.0	1.0	1.0	1.0
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	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	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: P776673

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	3457.5	3471.4	3491.9	3504.4	3508.2	3504.4	3491.9	3471.4	3457.5	3471.4	3491.9
22°	3351.3	3358.9	3379.5	3396.2	3407.7	3396.2	3379.5	3358.9	3351.3	3358.9	3379.5



44°	718.2	719.6	723.9	737.3	745.5	737.3	723.9	719.6	718.2	719.6	723.9
44.5°	664.1	665.6	669.9	685.2	692.8	685.2	669.9	665.6	664.1	665.6	669.9



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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	3504.4	3508.2	3504.4	3491.9	3471.4	3457.5
22°	3396.2	3407.7	3396.2	3379.5	3358.9	3351.3



44°	737.3	745.5	737.3	723.9	719.6	718.2
44.5°	685.2	692.8	685.2	669.9	665.6	664.1

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Scaled Data Report



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

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1121 Highway 74 South
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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)