

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: P776152

Luminaire Tested: HCDJBS1525CSD-HCD82TRC-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B062-HCD82TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRC-2500lm-3500K
Description: 8 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

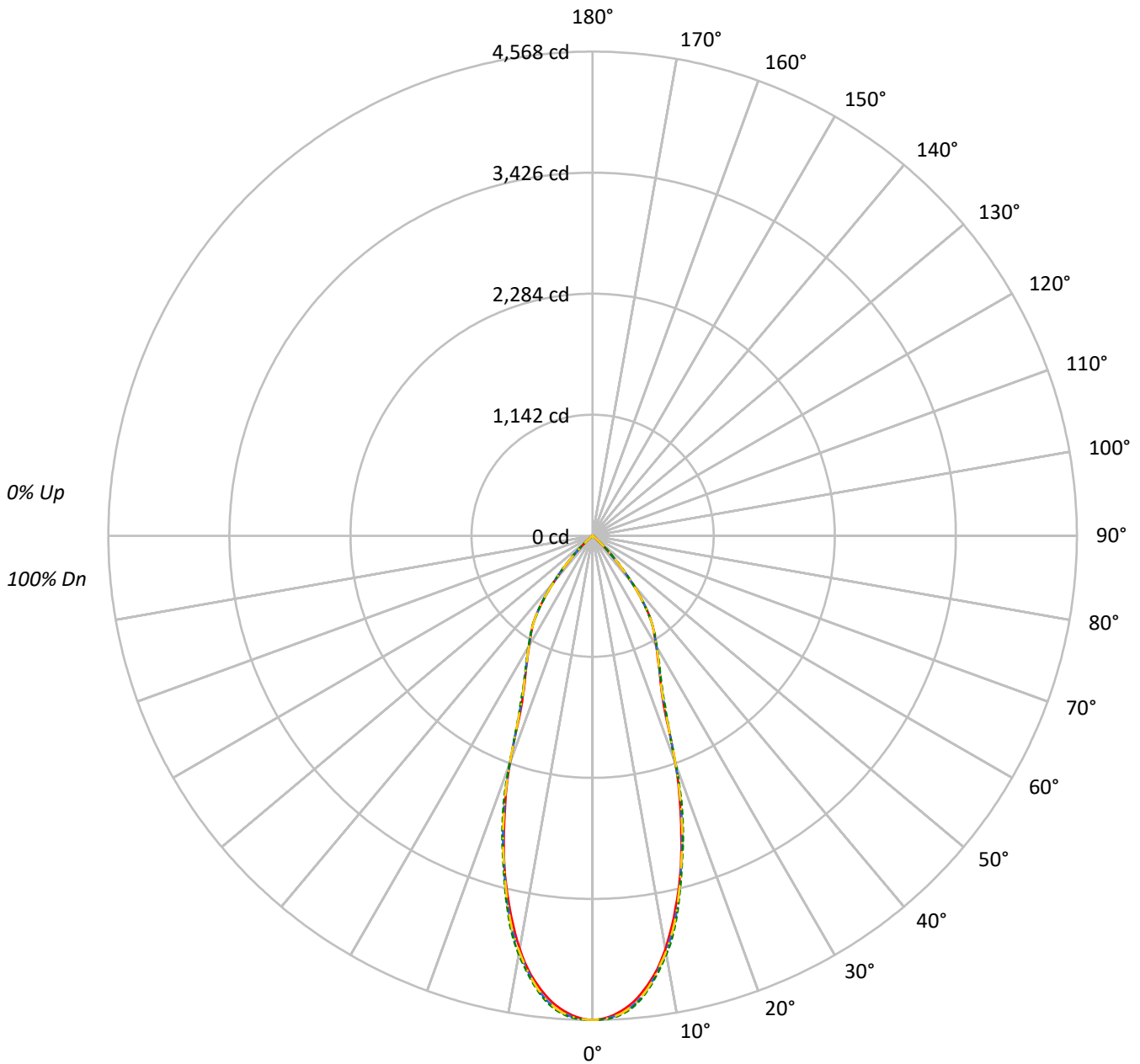
Lumens per Lamp: N/A
Luminaire Lumens: 2789.3 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.66 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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	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	80	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	81	78	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	62	59	66	62	59	66	62	59	57	57	57	57	57	57		
	10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54	54	54	54	54	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	139423	139423	139423	139423
5°	135260	136627	135260	136627
10°	122641	124287	122641	124287
15°	101690	102569	101690	102569
20°	74050	74362	74050	74362
25°	51018	51726	51018	51726
30°	42265	42709	42265	42709
35°	35280	35113	35280	35113
40°	22582	22892	22582	22892
45°	9140	10038	9140	10038
50°	1715	1905	1715	1905
55°	522	506	522	506
60°	336	336	336	336
65°	238	238	238	238
70°	161	179	161	179
75°	118	118	118	118
80°	88	88	88	88
85°	0	105	0	105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10038 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	14.7
10°-20°	882.7	31.6
20°-30°	724.1	26.0
30°-40°	569.9	20.4
40°-50°	187.5	6.7
50°-60°	11.0	0.4
60°-70°	3.4	0.1
70°-80°	1.2	0.0
80°-90°	0.2	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°	2016.1	72.3
0°-40°	2586.0	92.7
0°-60°	2784.5	99.8
0°-90°	2789.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4567	4567	4567	4567	4567	
5°	4414	4458	4414	4458	4414	407
15°	3217	3245	3217	3245	3217	876
25°	1514	1536	1514	1536	1514	719
35°	947	942	947	942	947	570
45°	212	232	212	232	212	181
55°	10	10	10	10	10	10
65°	3	3	3	3	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776152

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRC-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7
0.5°	4564.7	4565.2	4567.5	4563.0	4568.0	4563.0	4567.5	4565.2	4564.7	4565.2	4567.5
1°	4560.0	4561.0	4564.5	4560.2	4565.5	4560.2	4564.5	4561.0	4560.0	4561.0	4564.5
1.5°	4551.4	4553.7	4558.9	4555.7	4561.2	4555.7	4558.9	4553.7	4551.4	4553.7	4558.9
2°	4540.1	4543.1	4551.2	4548.9	4556.7	4548.9	4551.2	4543.1	4540.1	4543.1	4551.2
2.5°	4525.6	4530.4	4540.4	4539.9	4548.4	4539.9	4540.4	4530.4	4525.6	4530.4	4540.4
3°	4508.8	4515.1	4527.3	4527.6	4537.4	4527.6	4527.3	4515.1	4508.8	4515.1	4527.3
3.5°	4489.2	4497.5	4511.3	4512.0	4523.1	4512.0	4511.3	4497.5	4489.2	4497.5	4511.3
4°	4467.4	4478.4	4492.2	4493.2	4505.3	4493.2	4492.2	4478.4	4467.4	4478.4	4492.2
4.5°	4442.1	4455.9	4469.4	4471.7	4483.7	4471.7	4469.4	4455.9	4442.1	4455.9	4469.4
5°	4413.5	4430.8	4443.3	4446.6	4458.1	4446.6	4443.3	4430.8	4413.5	4430.8	4443.3
5.5°	4381.6	4402.2	4412.2	4418.5	4428.5	4418.5	4412.2	4402.2	4381.6	4402.2	4412.2
6°	4346.8	4369.8	4377.9	4387.4	4393.7	4387.4	4377.9	4369.8	4346.8	4369.8	4377.9
6.5°	4308.6	4333.5	4338.7	4352.5	4354.8	4352.5	4338.7	4333.5	4308.6	4333.5	4338.7
7°	4268.5	4292.8	4296.3	4315.1	4311.6	4315.1	4296.3	4292.8	4268.5	4292.8	4296.3
7.5°	4225.9	4248.2	4249.7	4274.3	4266.5	4274.3	4249.7	4248.2	4225.9	4248.2	4249.7
8°	4180.2	4200.0	4201.0	4229.9	4217.8	4229.9	4201.0	4200.0	4180.2	4200.0	4201.0
8.5°	4130.3	4146.6	4149.1	4181.2	4168.2	4181.2	4149.1	4146.6	4130.3	4146.6	4149.1
9°	4077.1	4089.7	4095.4	4128.0	4115.5	4128.0	4095.4	4089.7	4077.1	4089.7	4095.4
9.5°	4018.4	4027.5	4040.8	4070.3	4063.6	4070.3	4040.8	4027.5	4018.4	4027.5	4040.8
10°	3956.0	3962.7	3983.6	4007.1	4009.1	4007.1	3983.6	3962.7	3956.0	3962.7	3983.6
10.5°	3889.8	3894.0	3924.6	3940.2	3953.2	3940.2	3924.6	3894.0	3889.8	3894.0	3924.6
11°	3822.3	3824.0	3863.4	3870.2	3892.0	3870.2	3863.4	3824.0	3822.3	3824.0	3863.4
11.5°	3751.8	3753.1	3797.5	3798.0	3824.8	3798.0	3797.5	3753.1	3751.8	3753.1	3797.5
12°	3680.8	3681.8	3725.0	3726.2	3752.6	3726.2	3725.0	3681.8	3680.8	3681.8	3725.0
12.5°	3606.1	3612.1	3646.5	3653.2	3672.0	3653.2	3646.5	3612.1	3606.1	3612.1	3646.5
13°	3532.6	3541.4	3565.4	3579.0	3591.3	3579.0	3565.4	3541.4	3532.6	3541.4	3565.4
13.5°	3456.3	3468.4	3480.9	3500.2	3504.7	3500.2	3480.9	3468.4	3456.3	3468.4	3480.9
14°	3379.6	3391.6	3396.6	3418.0	3417.7	3418.0	3396.6	3391.6	3379.6	3391.6	3396.6
14.5°	3299.8	3309.4	3313.1	3334.7	3331.7	3334.7	3313.1	3309.4	3299.8	3309.4	3313.1
15°	3217.3	3223.3	3229.3	3248.9	3245.1	3248.9	3229.3	3223.3	3217.3	3223.3	3229.3
15.5°	3129.0	3132.5	3145.8	3163.4	3164.1	3163.4	3145.8	3132.5	3129.0	3132.5	3145.8
16°	3039.2	3041.5	3061.5	3077.1	3080.9	3077.1	3061.5	3041.5	3039.2	3041.5	3061.5
16.5°	2944.7	2951.4	2975.3	2991.6	3000.6	2991.6	2975.3	2951.4	2944.7	2951.4	2975.3
17°	2853.1	2861.1	2887.5	2906.8	2918.3	2906.8	2887.5	2861.1	2853.1	2861.1	2887.5
17.5°	2760.6	2771.6	2795.4	2819.0	2830.3	2819.0	2795.4	2771.6	2760.6	2771.6	2795.4
18°	2671.5	2679.5	2701.4	2726.9	2736.7	2726.9	2701.4	2679.5	2671.5	2679.5	2701.4
18.5°	2578.7	2586.2	2603.0	2628.6	2636.1	2628.6	2603.0	2586.2	2578.7	2586.2	2603.0
19°	2483.6	2488.7	2501.7	2520.8	2528.5	2520.8	2501.7	2488.7	2483.6	2488.7	2501.7
19.5°	2384.3	2384.8	2394.6	2409.1	2416.4	2409.1	2394.6	2384.8	2384.3	2384.8	2394.6
20°	2279.2	2279.2	2284.5	2292.5	2288.8	2292.5	2284.5	2279.2	2279.2	2279.2	2284.5
20.5°	2175.9	2172.1	2174.4	2174.1	2163.1	2174.1	2174.4	2172.1	2175.9	2172.1	2174.4
21°	2069.5	2067.0	2057.7	2067.0	2063.5	2067.0	2057.7	2067.0	2069.5	2067.0	2057.7



TEST NUMBER: P776152

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1772.1	1783.8	1799.9	1819.2	1810.7	1819.2	1799.9	1783.8	1772.1	1783.8	1799.9
23°	1702.6	1710.6	1727.2	1753.5	1753.8	1753.5	1727.2	1710.6	1702.6	1710.6	1727.2
23.5°	1651.4	1650.2	1660.7	1686.0	1689.3	1686.0	1660.7	1650.2	1651.4	1650.2	1660.7
24°	1596.5	1602.0	1608.5	1629.1	1630.6	1629.1	1608.5	1602.0	1596.5	1602.0	1608.5
24.5°	1554.3	1557.1	1562.9	1575.9	1575.9	1575.9	1562.9	1557.1	1554.3	1557.1	1562.9
25°	1514.5	1518.0	1524.0	1536.0	1535.5	1536.0	1524.0	1518.0	1514.5	1518.0	1524.0
25.5°	1477.3	1479.1	1485.4	1496.7	1497.4	1496.7	1485.4	1479.1	1477.3	1479.1	1485.4
26°	1441.5	1443.0	1447.5	1456.0	1457.3	1456.0	1447.5	1443.0	1441.5	1443.0	1447.5
26.5°	1407.6	1408.1	1413.4	1421.2	1421.9	1421.2	1413.4	1408.1	1407.6	1408.1	1413.4
27°	1373.3	1374.8	1380.3	1390.1	1392.6	1390.1	1380.3	1374.8	1373.3	1374.8	1380.3
27.5°	1340.9	1342.9	1348.2	1357.7	1361.2	1357.7	1348.2	1342.9	1340.9	1342.9	1348.2
28°	1310.3	1312.3	1317.3	1324.3	1327.6	1324.3	1317.3	1312.3	1310.3	1312.3	1317.3
28.5°	1282.0	1283.0	1287.7	1293.2	1296.0	1293.2	1287.7	1283.0	1282.0	1283.0	1287.7
29°	1253.9	1254.6	1259.1	1263.9	1266.9	1263.9	1259.1	1254.6	1253.9	1254.6	1259.1
29.5°	1226.0	1227.5	1231.3	1236.6	1239.1	1236.6	1231.3	1227.5	1226.0	1227.5	1231.3
30°	1198.9	1200.4	1203.9	1209.0	1211.5	1209.0	1203.9	1200.4	1198.9	1200.4	1203.9
30.5°	1172.6	1173.8	1177.4	1182.1	1183.9	1182.1	1177.4	1173.8	1172.6	1173.8	1177.4
31°	1146.8	1148.0	1151.3	1156.3	1158.8	1156.3	1151.3	1148.0	1146.8	1148.0	1151.3
31.5°	1121.9	1123.2	1126.7	1131.2	1133.0	1131.2	1126.7	1123.2	1121.9	1123.2	1126.7
32°	1098.1	1099.1	1102.4	1106.9	1108.6	1106.9	1102.4	1099.1	1098.1	1099.1	1102.4
32.5°	1075.3	1076.3	1078.5	1082.8	1084.3	1082.8	1078.5	1076.3	1075.3	1076.3	1078.5
33°	1053.2	1053.7	1055.0	1057.0	1058.5	1057.0	1055.0	1053.7	1053.2	1053.7	1055.0
33.5°	1030.4	1030.4	1029.9	1028.9	1031.1	1028.9	1029.9	1030.4	1030.4	1030.4	1029.9
34°	1004.5	1003.5	1003.0	999.8	1004.8	999.8	1003.0	1003.5	1004.5	1003.5	1003.0
34.5°	976.7	974.4	974.2	969.9	973.7	969.9	974.2	974.4	976.7	974.4	974.2
35°	946.6	943.6	943.6	939.6	942.1	939.6	943.6	943.6	946.6	943.6	943.6
35.5°	913.7	912.5	911.0	907.5	909.0	907.5	911.0	912.5	913.7	912.5	911.0
36°	879.6	879.1	876.4	874.4	874.6	874.4	876.4	879.1	879.6	879.1	876.4
36.5°	843.5	844.5	840.5	839.3	837.7	839.3	840.5	844.5	843.5	844.5	840.5
37°	804.6	807.6	804.1	803.4	801.4	803.4	804.1	807.6	804.6	807.6	804.1
37.5°	766.0	768.3	767.3	766.0	765.3	766.0	767.3	768.3	766.0	768.3	767.3
38°	727.4	729.1	727.9	728.9	728.1	728.9	727.9	729.1	727.4	729.1	727.9
38.5°	688.8	687.8	688.3	688.5	690.5	688.5	688.3	687.8	688.8	687.8	688.3
39°	649.4	647.1	648.4	648.4	652.4	648.4	648.4	647.1	649.4	647.1	648.4
39.5°	608.0	606.7	608.5	610.0	613.0	610.0	608.5	606.7	608.0	606.7	608.5
40°	566.6	567.6	569.9	572.1	574.4	572.1	569.9	567.6	566.6	567.6	569.9
40.5°	525.5	528.0	530.2	535.8	535.5	535.8	530.2	528.0	525.5	528.0	530.2
41°	485.6	488.4	491.6	498.1	497.1	498.1	491.6	488.4	485.6	488.4	491.6
41.5°	445.5	449.0	453.2	461.0	459.3	461.0	453.2	449.0	445.5	449.0	453.2
42°	407.3	410.8	416.6	424.4	423.1	424.4	416.6	410.8	407.3	410.8	416.6
42.5°	370.5	373.7	381.3	389.3	388.5	389.3	381.3	373.7	370.5	373.7	381.3
43°	334.8	339.1	346.9	355.9	355.2	355.9	346.9	339.1	334.8	339.1	346.9
43.5°	303.0	305.3	313.0	321.8	322.6	321.8	313.0	305.3	303.0	305.3	313.0



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CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	211.7	212.7	221.2	229.3	232.5	229.3	221.2	212.7	211.7	212.7	221.2
45.5°	182.6	184.9	194.4	201.4	205.7	201.4	194.4	184.9	182.6	184.9	194.4
46°	157.0	158.8	169.1	177.1	181.6	177.1	169.1	158.8	157.0	158.8	169.1
46.5°	133.9	136.9	145.0	155.0	160.3	155.0	145.0	136.9	133.9	136.9	145.0
47°	112.9	116.4	122.7	133.9	139.0	133.9	122.7	116.4	112.9	116.4	122.7
47.5°	94.8	98.3	104.1	113.9	117.6	113.9	104.1	98.3	94.8	98.3	104.1
48°	78.5	82.8	86.8	95.6	96.3	95.6	86.8	82.8	78.5	82.8	86.8
48.5°	64.7	68.5	71.7	79.3	78.0	79.3	71.7	68.5	64.7	68.5	71.7
49°	53.7	55.9	58.2	65.2	63.2	65.2	58.2	55.9	53.7	55.9	58.2
49.5°	44.9	45.6	48.2	52.4	50.2	52.4	48.2	45.6	44.9	45.6	48.2
50°	36.1	35.9	38.6	42.6	40.1	42.6	38.6	35.9	36.1	35.9	38.6
50.5°	27.3	28.3	29.8	33.9	31.6	33.9	29.8	28.3	27.3	28.3	29.8
51°	21.1	21.6	24.3	27.1	25.1	27.1	24.3	21.6	21.1	21.6	24.3
51.5°	15.8	17.8	19.3	22.6	22.3	22.6	19.3	17.8	15.8	17.8	19.3
52°	13.8	14.8	16.3	17.8	19.6	17.8	16.3	14.8	13.8	14.8	16.3
52.5°	12.5	12.8	14.0	15.0	16.6	15.0	14.0	12.8	12.5	12.8	14.0
53°	11.8	12.0	12.0	13.0	13.8	13.0	12.0	12.0	11.8	12.0	12.0
53.5°	11.3	11.3	11.5	11.3	11.0	11.3	11.5	11.3	11.3	11.3	11.5
54°	10.8	10.8	10.8	10.8	10.5	10.8	10.8	10.8	10.8	10.8	10.8
54.5°	10.3	10.3	10.3	10.3	10.0	10.3	10.3	10.3	10.3	10.3	10.3
55°	9.8	9.8	9.8	9.8	9.5	9.8	9.8	9.8	9.8	9.8	9.8
55.5°	9.3	9.3	9.3	9.3	9.0	9.3	9.3	9.3	9.3	9.3	9.3
56°	8.8	8.8	8.8	8.8	8.5	8.8	8.8	8.8	8.8	8.8	8.8
56.5°	8.3	8.3	8.5	8.3	8.0	8.3	8.5	8.3	8.3	8.3	8.5
57°	7.8	7.8	8.0	7.8	7.8	7.8	8.0	7.8	7.8	7.8	8.0
57.5°	7.3	7.5	7.5	7.3	7.3	7.3	7.5	7.5	7.3	7.5	7.5
58°	7.0	7.0	7.0	7.0	6.8	7.0	7.0	7.0	7.0	7.0	7.0
58.5°	6.5	6.8	6.8	6.5	6.5	6.5	6.8	6.8	6.5	6.8	6.8
59°	6.3	6.3	6.3	6.3	6.0	6.3	6.3	6.3	6.3	6.3	6.3
59.5°	5.8	6.0	6.0	6.0	5.8	6.0	6.0	6.0	5.8	6.0	6.0
60°	5.5	5.5	5.8	5.5	5.5	5.5	5.8	5.5	5.5	5.5	5.8
60.5°	5.3	5.3	5.5	5.3	5.3	5.3	5.5	5.3	5.3	5.3	5.5
61°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
61.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
63°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
63.5°	3.8	3.8	4.0	3.8	3.8	3.8	4.0	3.8	3.8	3.8	4.0
64°	3.5	3.5	3.8	3.8	3.5	3.8	3.8	3.5	3.5	3.5	3.8
64.5°	3.3	3.5	3.5	3.5	3.3	3.5	3.5	3.5	3.3	3.5	3.5
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65.5°	3.0	3.0	3.3	3.0	3.0	3.0	3.3	3.0	3.0	3.0	3.3
66°	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	3.0	3.0



TEST NUMBER: P776152

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
68°	2.3	2.3	2.5	2.5	2.3	2.5	2.5	2.3	2.3	2.3	2.5
68.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
69°	2.0	2.0	2.3	2.3	2.0	2.3	2.3	2.0	2.0	2.0	2.3
69.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	1.8	1.8	2.0	2.0	2.0	2.0	2.0	1.8	1.8	1.8	2.0
70.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
71°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
71.5°	1.5	1.5	1.8	1.8	1.5	1.8	1.8	1.5	1.5	1.5	1.8
72°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
73°	1.3	1.3	1.3	1.5	1.3	1.5	1.3	1.3	1.3	1.3	1.3
73.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
74°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
74.5°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.3
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8
77°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
79°	0.5	0.5	0.5	0.8	0.5	0.8	0.5	0.5	0.5	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
82°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
85.5°	0.0	0.0	0.0	0.3	0.3	0.3	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: P776152

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3500K

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: P776152

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7
0.5°	4563.0	4568.0	4563.0	4567.5	4565.2	4564.7
1°	4560.2	4565.5	4560.2	4564.5	4561.0	4560.0
1.5°	4555.7	4561.2	4555.7	4558.9	4553.7	4551.4
2°	4548.9	4556.7	4548.9	4551.2	4543.1	4540.1
2.5°	4539.9	4548.4	4539.9	4540.4	4530.4	4525.6
3°	4527.6	4537.4	4527.6	4527.3	4515.1	4508.8
3.5°	4512.0	4523.1	4512.0	4511.3	4497.5	4489.2
4°	4493.2	4505.3	4493.2	4492.2	4478.4	4467.4
4.5°	4471.7	4483.7	4471.7	4469.4	4455.9	4442.1
5°	4446.6	4458.1	4446.6	4443.3	4430.8	4413.5
5.5°	4418.5	4428.5	4418.5	4412.2	4402.2	4381.6
6°	4387.4	4393.7	4387.4	4377.9	4369.8	4346.8
6.5°	4352.5	4354.8	4352.5	4338.7	4333.5	4308.6
7°	4315.1	4311.6	4315.1	4296.3	4292.8	4268.5
7.5°	4274.3	4266.5	4274.3	4249.7	4248.2	4225.9
8°	4229.9	4217.8	4229.9	4201.0	4200.0	4180.2
8.5°	4181.2	4168.2	4181.2	4149.1	4146.6	4130.3
9°	4128.0	4115.5	4128.0	4095.4	4089.7	4077.1
9.5°	4070.3	4063.6	4070.3	4040.8	4027.5	4018.4
10°	4007.1	4009.1	4007.1	3983.6	3962.7	3956.0
10.5°	3940.2	3953.2	3940.2	3924.6	3894.0	3889.8
11°	3870.2	3892.0	3870.2	3863.4	3824.0	3822.3
11.5°	3798.0	3824.8	3798.0	3797.5	3753.1	3751.8
12°	3726.2	3752.6	3726.2	3725.0	3681.8	3680.8
12.5°	3653.2	3672.0	3653.2	3646.5	3612.1	3606.1
13°	3579.0	3591.3	3579.0	3565.4	3541.4	3532.6
13.5°	3500.2	3504.7	3500.2	3480.9	3468.4	3456.3
14°	3418.0	3417.7	3418.0	3396.6	3391.6	3379.6
14.5°	3334.7	3331.7	3334.7	3313.1	3309.4	3299.8
15°	3248.9	3245.1	3248.9	3229.3	3223.3	3217.3
15.5°	3163.4	3164.1	3163.4	3145.8	3132.5	3129.0
16°	3077.1	3080.9	3077.1	3061.5	3041.5	3039.2
16.5°	2991.6	3000.6	2991.6	2975.3	2951.4	2944.7
17°	2906.8	2918.3	2906.8	2887.5	2861.1	2853.1
17.5°	2819.0	2830.3	2819.0	2795.4	2771.6	2760.6
18°	2726.9	2736.7	2726.9	2701.4	2679.5	2671.5
18.5°	2628.6	2636.1	2628.6	2603.0	2586.2	2578.7
19°	2520.8	2528.5	2520.8	2501.7	2488.7	2483.6
19.5°	2409.1	2416.4	2409.1	2394.6	2384.8	2384.3
20°	2292.5	2288.8	2292.5	2284.5	2279.2	2279.2
20.5°	2174.1	2163.1	2174.1	2174.4	2172.1	2175.9
21°	2067.0	2063.5	2067.0	2057.7	2067.0	2069.5



TEST NUMBER: P776152

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1819.2	1810.7	1819.2	1799.9	1783.8	1772.1
23°	1753.5	1753.8	1753.5	1727.2	1710.6	1702.6
23.5°	1686.0	1689.3	1686.0	1660.7	1650.2	1651.4
24°	1629.1	1630.6	1629.1	1608.5	1602.0	1596.5
24.5°	1575.9	1575.9	1575.9	1562.9	1557.1	1554.3
25°	1536.0	1535.5	1536.0	1524.0	1518.0	1514.5
25.5°	1496.7	1497.4	1496.7	1485.4	1479.1	1477.3
26°	1456.0	1457.3	1456.0	1447.5	1443.0	1441.5
26.5°	1421.2	1421.9	1421.2	1413.4	1408.1	1407.6
27°	1390.1	1392.6	1390.1	1380.3	1374.8	1373.3
27.5°	1357.7	1361.2	1357.7	1348.2	1342.9	1340.9
28°	1324.3	1327.6	1324.3	1317.3	1312.3	1310.3
28.5°	1293.2	1296.0	1293.2	1287.7	1283.0	1282.0
29°	1263.9	1266.9	1263.9	1259.1	1254.6	1253.9
29.5°	1236.6	1239.1	1236.6	1231.3	1227.5	1226.0
30°	1209.0	1211.5	1209.0	1203.9	1200.4	1198.9
30.5°	1182.1	1183.9	1182.1	1177.4	1173.8	1172.6
31°	1156.3	1158.8	1156.3	1151.3	1148.0	1146.8
31.5°	1131.2	1133.0	1131.2	1126.7	1123.2	1121.9
32°	1106.9	1108.6	1106.9	1102.4	1099.1	1098.1
32.5°	1082.8	1084.3	1082.8	1078.5	1076.3	1075.3
33°	1057.0	1058.5	1057.0	1055.0	1053.7	1053.2
33.5°	1028.9	1031.1	1028.9	1029.9	1030.4	1030.4
34°	999.8	1004.8	999.8	1003.0	1003.5	1004.5
34.5°	969.9	973.7	969.9	974.2	974.4	976.7
35°	939.6	942.1	939.6	943.6	943.6	946.6
35.5°	907.5	909.0	907.5	911.0	912.5	913.7
36°	874.4	874.6	874.4	876.4	879.1	879.6
36.5°	839.3	837.7	839.3	840.5	844.5	843.5
37°	803.4	801.4	803.4	804.1	807.6	804.6
37.5°	766.0	765.3	766.0	767.3	768.3	766.0
38°	728.9	728.1	728.9	727.9	729.1	727.4
38.5°	688.5	690.5	688.5	688.3	687.8	688.8
39°	648.4	652.4	648.4	648.4	647.1	649.4
39.5°	610.0	613.0	610.0	608.5	606.7	608.0
40°	572.1	574.4	572.1	569.9	567.6	566.6
40.5°	535.8	535.5	535.8	530.2	528.0	525.5
41°	498.1	497.1	498.1	491.6	488.4	485.6
41.5°	461.0	459.3	461.0	453.2	449.0	445.5
42°	424.4	423.1	424.4	416.6	410.8	407.3
42.5°	389.3	388.5	389.3	381.3	373.7	370.5
43°	355.9	355.2	355.9	346.9	339.1	334.8
43.5°	321.8	322.6	321.8	313.0	305.3	303.0



TEST NUMBER: P776152

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	229.3	232.5	229.3	221.2	212.7	211.7
45.5°	201.4	205.7	201.4	194.4	184.9	182.6
46°	177.1	181.6	177.1	169.1	158.8	157.0
46.5°	155.0	160.3	155.0	145.0	136.9	133.9
47°	133.9	139.0	133.9	122.7	116.4	112.9
47.5°	113.9	117.6	113.9	104.1	98.3	94.8
48°	95.6	96.3	95.6	86.8	82.8	78.5
48.5°	79.3	78.0	79.3	71.7	68.5	64.7
49°	65.2	63.2	65.2	58.2	55.9	53.7
49.5°	52.4	50.2	52.4	48.2	45.6	44.9
50°	42.6	40.1	42.6	38.6	35.9	36.1
50.5°	33.9	31.6	33.9	29.8	28.3	27.3
51°	27.1	25.1	27.1	24.3	21.6	21.1
51.5°	22.6	22.3	22.6	19.3	17.8	15.8
52°	17.8	19.6	17.8	16.3	14.8	13.8
52.5°	15.0	16.6	15.0	14.0	12.8	12.5
53°	13.0	13.8	13.0	12.0	12.0	11.8
53.5°	11.3	11.0	11.3	11.5	11.3	11.3
54°	10.8	10.5	10.8	10.8	10.8	10.8
54.5°	10.3	10.0	10.3	10.3	10.3	10.3
55°	9.8	9.5	9.8	9.8	9.8	9.8
55.5°	9.3	9.0	9.3	9.3	9.3	9.3
56°	8.8	8.5	8.8	8.8	8.8	8.8
56.5°	8.3	8.0	8.3	8.5	8.3	8.3
57°	7.8	7.8	7.8	8.0	7.8	7.8
57.5°	7.3	7.3	7.3	7.5	7.5	7.3
58°	7.0	6.8	7.0	7.0	7.0	7.0
58.5°	6.5	6.5	6.5	6.8	6.8	6.5
59°	6.3	6.0	6.3	6.3	6.3	6.3
59.5°	6.0	5.8	6.0	6.0	6.0	5.8
60°	5.5	5.5	5.5	5.8	5.5	5.5
60.5°	5.3	5.3	5.3	5.5	5.3	5.3
61°	5.0	5.0	5.0	5.0	5.0	5.0
61.5°	4.8	4.8	4.8	4.8	4.8	4.8
62°	4.5	4.5	4.5	4.5	4.5	4.5
62.5°	4.3	4.3	4.3	4.3	4.3	4.3
63°	4.0	4.0	4.0	4.0	4.0	4.0
63.5°	3.8	3.8	3.8	4.0	3.8	3.8
64°	3.8	3.5	3.8	3.8	3.5	3.5
64.5°	3.5	3.3	3.5	3.5	3.5	3.3
65°	3.3	3.3	3.3	3.3	3.3	3.3
65.5°	3.0	3.0	3.0	3.3	3.0	3.0
66°	3.0	3.0	3.0	3.0	3.0	2.8



TEST NUMBER: P776152

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.5	2.5	2.5	2.5	2.5	2.5
68°	2.5	2.3	2.5	2.5	2.3	2.3
68.5°	2.3	2.3	2.3	2.3	2.3	2.3
69°	2.3	2.0	2.3	2.3	2.0	2.0
69.5°	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	1.8	1.8
70.5°	1.8	1.8	1.8	1.8	1.8	1.8
71°	1.8	1.8	1.8	1.8	1.8	1.8
71.5°	1.8	1.5	1.8	1.8	1.5	1.5
72°	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5
73°	1.5	1.3	1.5	1.3	1.3	1.3
73.5°	1.3	1.3	1.3	1.3	1.3	1.3
74°	1.3	1.3	1.3	1.3	1.3	1.3
74.5°	1.3	1.3	1.3	1.3	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	1.0	1.0	1.0	0.8	0.8	0.8
77°	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.8	0.8	0.8	0.8	0.5	0.5
79°	0.8	0.5	0.8	0.5	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.5	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.0	0.0
85.5°	0.3	0.3	0.3	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: P776152

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3500K

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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Scaled Data Report





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

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Scaled Data Report



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21.5°	1961.2	1959.9	1963.4	1974.5	1973.0	1974.5	1963.4	1959.9	1961.2	1959.9	1963.4
22°	1851.1	1868.6	1876.9	1891.5	1889.7	1891.5	1876.9	1868.6	1851.1	1868.6	1876.9



44°	271.6	273.6	280.7	289.4	290.5	289.4	280.7	273.6	271.6	273.6	280.7
44.5°	241.3	242.5	249.3	258.3	260.9	258.3	249.3	242.5	241.3	242.5	249.3



66.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67°	2.5	2.5	2.8	2.8	2.5	2.8	2.8	2.5	2.5	2.5	2.8



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°	1974.5	1973.0	1974.5	1963.4	1959.9	1961.2
22°	1891.5	1889.7	1891.5	1876.9	1868.6	1851.1



44°	289.4	290.5	289.4	280.7	273.6	271.6
44.5°	258.3	260.9	258.3	249.3	242.5	241.3

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66.5°	2.8	2.8	2.8	2.8	2.8	2.8
67°	2.8	2.5	2.8	2.8	2.5	2.5

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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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)