

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: P776151

Luminaire Tested: HCDJBS1525CSD-HCD82TRC-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776151
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-3000K
Description: 8 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

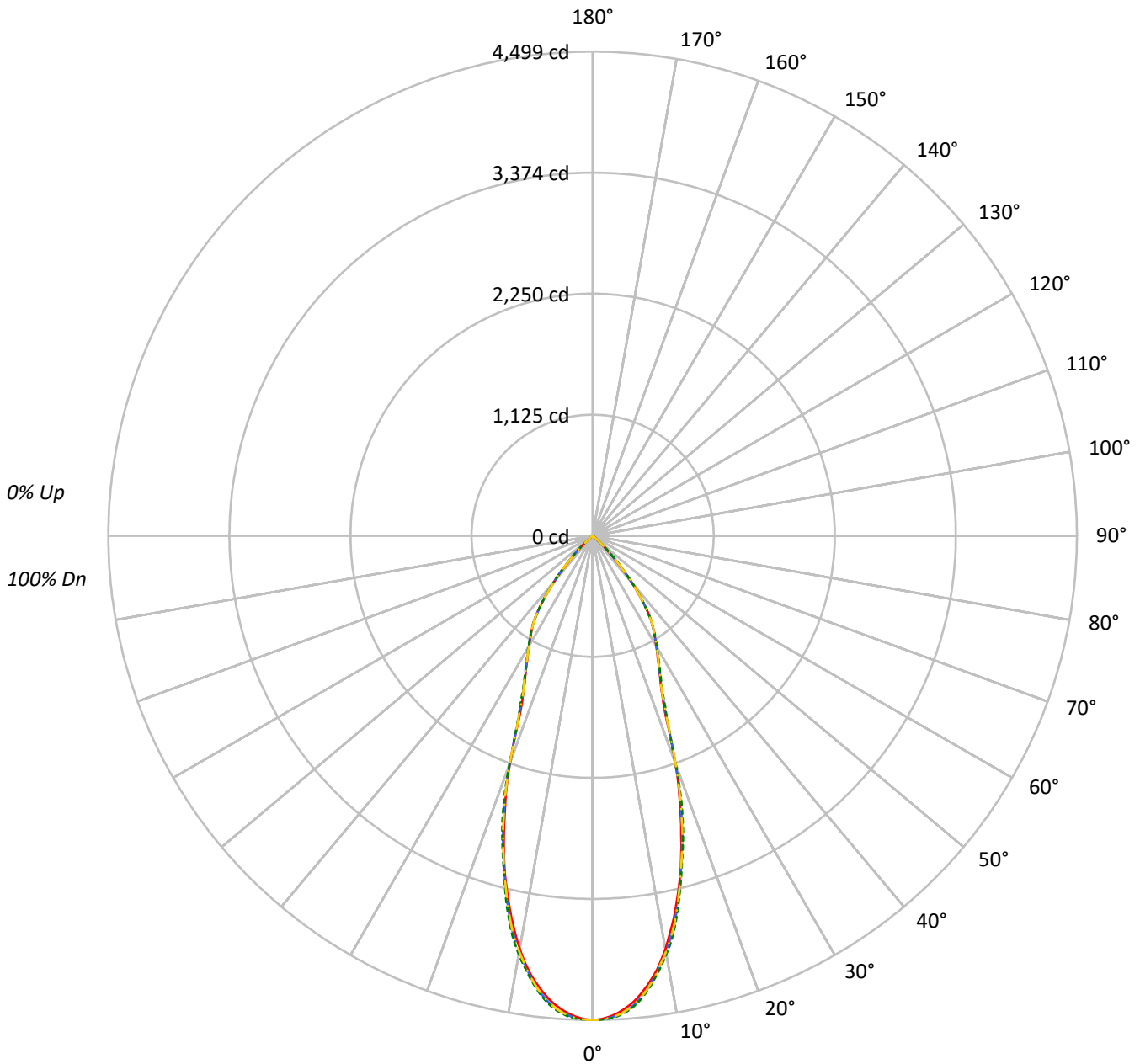
Lumens per Lamp: N/A
Luminaire Lumens: 2747.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.66 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (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	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	75	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°	137331	137331	137331	137331
5°	133228	134577	133228	134577
10°	120800	122421	120800	122421
15°	100163	101029	100163	101029
20°	72939	73245	72939	73245
25°	50250	50951	50250	50951
30°	41631	42068	41631	42068
35°	34751	34583	34751	34583
40°	22243	22550	22243	22550
45°	9002	9887	9002	9887
50°	1691	1876	1691	1876
55°	511	500	511	500
60°	330	330	330	330
65°	231	231	231	231
70°	152	179	152	179
75°	118	118	118	118
80°	88	88	88	88
85°	0	70	0	70

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9887 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	14.7
10°-20°	869.5	31.6
20°-30°	713.2	26.0
30°-40°	561.4	20.4
40°-50°	184.7	6.7
50°-60°	10.8	0.4
60°-70°	3.3	0.1
70°-80°	1.1	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°	1985.8	72.3
0°-40°	2547.2	92.7
0°-60°	2742.6	99.8
0°-90°	2747.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4498	4498	4498	4498	4498	
5°	4347	4391	4347	4391	4347	401
15°	3169	3196	3169	3196	3169	862
25°	1492	1512	1492	1512	1492	709
35°	932	928	932	928	932	561
45°	208	229	208	229	208	178
55°	10	9	10	9	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2
0.5°	4496.2	4496.7	4498.9	4494.4	4499.4	4494.4	4498.9	4496.7	4496.2	4496.7	4498.9
1°	4491.5	4492.5	4495.9	4491.7	4496.9	4491.7	4495.9	4492.5	4491.5	4492.5	4495.9
1.5°	4483.1	4485.3	4490.5	4487.3	4492.7	4487.3	4490.5	4485.3	4483.1	4485.3	4490.5
2°	4472.0	4474.9	4482.8	4480.6	4488.3	4480.6	4482.8	4474.9	4472.0	4474.9	4482.8
2.5°	4457.6	4462.3	4472.2	4471.7	4480.1	4471.7	4472.2	4462.3	4457.6	4462.3	4472.2
3°	4441.1	4447.3	4459.4	4459.6	4469.2	4459.6	4459.4	4447.3	4441.1	4447.3	4459.4
3.5°	4421.8	4430.0	4443.6	4444.3	4455.2	4444.3	4443.6	4430.0	4421.8	4430.0	4443.6
4°	4400.3	4411.2	4424.8	4425.8	4437.6	4425.8	4424.8	4411.2	4400.3	4411.2	4424.8
4.5°	4375.4	4389.0	4402.3	4404.5	4416.4	4404.5	4402.3	4389.0	4375.4	4389.0	4402.3
5°	4347.2	4364.3	4376.6	4379.8	4391.2	4379.8	4376.6	4364.3	4347.2	4364.3	4376.6
5.5°	4315.8	4336.1	4346.0	4352.1	4362.0	4352.1	4346.0	4336.1	4315.8	4336.1	4346.0
6°	4281.5	4304.2	4312.1	4321.5	4327.7	4321.5	4312.1	4304.2	4281.5	4304.2	4312.1
6.5°	4243.9	4268.4	4273.6	4287.2	4289.4	4287.2	4273.6	4268.4	4243.9	4268.4	4273.6
7°	4204.4	4228.4	4231.8	4250.4	4246.9	4250.4	4231.8	4228.4	4204.4	4228.4	4231.8
7.5°	4162.4	4184.4	4185.9	4210.1	4202.4	4210.1	4185.9	4184.4	4162.4	4184.4	4185.9
8°	4117.4	4137.0	4137.9	4166.4	4154.5	4166.4	4137.9	4137.0	4117.4	4137.0	4137.9
8.5°	4068.3	4084.3	4086.8	4118.4	4105.6	4118.4	4086.8	4084.3	4068.3	4084.3	4086.8
9°	4015.9	4028.3	4033.9	4066.1	4053.7	4066.1	4033.9	4028.3	4015.9	4028.3	4033.9
9.5°	3958.1	3967.0	3980.1	4009.2	4002.6	4009.2	3980.1	3967.0	3958.1	3967.0	3980.1
10°	3896.6	3903.2	3923.7	3947.0	3948.9	3947.0	3923.7	3903.2	3896.6	3903.2	3923.7
10.5°	3831.4	3835.6	3865.7	3881.0	3893.9	3881.0	3865.7	3835.6	3831.4	3835.6	3865.7
11°	3764.9	3766.6	3805.4	3812.1	3833.6	3812.1	3805.4	3766.6	3764.9	3766.6	3805.4
11.5°	3695.5	3696.7	3740.4	3740.9	3767.4	3740.9	3740.4	3696.7	3695.5	3696.7	3740.4
12°	3625.6	3626.5	3669.0	3670.3	3696.2	3670.3	3669.0	3626.5	3625.6	3626.5	3669.0
12.5°	3551.9	3557.9	3591.7	3598.4	3616.9	3598.4	3591.7	3557.9	3551.9	3557.9	3591.7
13°	3479.5	3488.2	3511.9	3525.2	3537.4	3525.2	3511.9	3488.2	3479.5	3488.2	3511.9
13.5°	3404.4	3416.3	3428.6	3447.7	3452.1	3447.7	3428.6	3416.3	3404.4	3416.3	3428.6
14°	3328.8	3340.7	3345.6	3366.6	3366.4	3366.6	3345.6	3340.7	3328.8	3340.7	3345.6
14.5°	3250.3	3259.7	3263.4	3284.6	3281.6	3284.6	3263.4	3259.7	3250.3	3259.7	3263.4
15°	3169.0	3174.9	3180.9	3200.1	3196.4	3200.1	3180.9	3174.9	3169.0	3174.9	3180.9
15.5°	3082.0	3085.5	3098.6	3115.9	3116.6	3115.9	3098.6	3085.5	3082.0	3085.5	3098.6
16°	2993.6	2995.8	3015.6	3030.9	3034.6	3030.9	3015.6	2995.8	2993.6	2995.8	3015.6
16.5°	2900.4	2907.1	2930.6	2946.6	2955.5	2946.6	2930.6	2907.1	2900.4	2907.1	2930.6
17°	2810.3	2818.2	2844.1	2863.1	2874.5	2863.1	2844.1	2818.2	2810.3	2818.2	2844.1
17.5°	2719.1	2730.0	2753.4	2776.7	2787.8	2776.7	2753.4	2730.0	2719.1	2730.0	2753.4
18°	2631.4	2639.3	2660.8	2686.0	2695.6	2686.0	2660.8	2639.3	2631.4	2639.3	2660.8
18.5°	2540.0	2547.4	2564.0	2589.2	2596.6	2589.2	2564.0	2547.4	2540.0	2547.4	2564.0
19°	2446.4	2451.3	2464.1	2482.9	2490.6	2482.9	2464.1	2451.3	2446.4	2451.3	2464.1
19.5°	2348.5	2349.0	2358.6	2373.0	2380.1	2373.0	2358.6	2349.0	2348.5	2349.0	2358.6
20°	2245.0	2245.0	2250.2	2258.1	2254.4	2258.1	2250.2	2245.0	2245.0	2245.0	2250.2
20.5°	2143.2	2139.5	2141.7	2141.5	2130.6	2141.5	2141.7	2139.5	2143.2	2139.5	2141.7
21°	2038.5	2036.0	2026.9	2036.0	2032.5	2036.0	2026.9	2036.0	2038.5	2036.0	2026.9



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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°	1745.5	1757.1	1772.9	1791.9	1783.5	1791.9	1772.9	1757.1	1745.5	1757.1	1772.9
23°	1677.0	1684.9	1701.2	1727.2	1727.4	1727.2	1701.2	1684.9	1677.0	1684.9	1701.2
23.5°	1626.6	1625.4	1635.8	1660.7	1663.9	1660.7	1635.8	1625.4	1626.6	1625.4	1635.8
24°	1572.5	1577.9	1584.4	1604.6	1606.1	1604.6	1584.4	1577.9	1572.5	1577.9	1584.4
24.5°	1531.0	1533.7	1539.4	1552.3	1552.3	1539.4	1533.7	1531.0	1533.7	1533.7	1539.4
25°	1491.7	1495.2	1501.1	1513.0	1512.5	1513.0	1501.1	1495.2	1491.7	1495.2	1501.1
25.5°	1455.2	1456.9	1463.1	1474.2	1474.9	1474.2	1463.1	1456.9	1455.2	1456.9	1463.1
26°	1419.8	1421.3	1425.8	1434.2	1435.4	1434.2	1425.8	1421.3	1419.8	1421.3	1425.8
26.5°	1386.5	1387.0	1392.2	1399.8	1400.6	1399.8	1392.2	1387.0	1386.5	1387.0	1392.2
27°	1352.6	1354.1	1359.6	1369.2	1371.7	1369.2	1359.6	1354.1	1352.6	1354.1	1359.6
27.5°	1320.8	1322.7	1327.9	1337.3	1340.8	1337.3	1327.9	1322.7	1320.8	1322.7	1327.9
28°	1290.6	1292.6	1297.5	1304.5	1307.7	1304.5	1297.5	1292.6	1290.6	1292.6	1297.5
28.5°	1262.7	1263.7	1268.4	1273.8	1276.5	1273.8	1268.4	1263.7	1262.7	1263.7	1268.4
29°	1235.0	1235.8	1240.2	1244.9	1247.9	1244.9	1240.2	1235.8	1235.0	1235.8	1240.2
29.5°	1207.6	1209.1	1212.8	1218.0	1220.5	1218.0	1212.8	1209.1	1207.6	1209.1	1212.8
30°	1180.9	1182.4	1185.9	1190.8	1193.3	1190.8	1185.9	1182.4	1180.9	1182.4	1185.9
30.5°	1155.0	1156.2	1159.7	1164.4	1166.1	1164.4	1159.7	1156.2	1155.0	1156.2	1159.7
31°	1129.5	1130.8	1134.0	1138.9	1141.4	1138.9	1134.0	1130.8	1129.5	1130.8	1134.0
31.5°	1105.1	1106.3	1109.8	1114.2	1116.0	1114.2	1109.8	1106.3	1105.1	1106.3	1109.8
32°	1081.6	1082.6	1085.8	1090.3	1092.0	1090.3	1085.8	1082.6	1081.6	1082.6	1085.8
32.5°	1059.1	1060.1	1062.3	1066.5	1068.0	1066.5	1062.3	1060.1	1059.1	1060.1	1062.3
33°	1037.4	1037.9	1039.1	1041.1	1042.6	1041.1	1039.1	1037.9	1037.4	1037.9	1039.1
33.5°	1014.9	1014.9	1014.4	1013.4	1015.6	1013.4	1014.4	1014.9	1014.9	1014.9	1014.4
34°	989.5	988.5	988.0	984.8	989.7	984.8	988.0	988.5	989.5	988.5	988.0
34.5°	962.0	959.8	959.6	955.4	959.1	955.4	959.6	959.8	962.0	959.8	959.6
35°	932.4	929.4	929.4	925.5	927.9	925.5	929.4	929.4	932.4	929.4	929.4
35.5°	900.0	898.8	897.3	893.8	895.3	893.8	897.3	898.8	900.0	898.8	897.3
36°	866.4	865.9	863.2	861.2	861.5	861.2	863.2	865.9	866.4	865.9	863.2
36.5°	830.9	831.8	827.9	826.7	825.2	826.7	827.9	831.8	830.9	831.8	827.9
37°	792.6	795.5	792.1	791.3	789.3	791.3	792.1	795.5	792.6	795.5	792.1
37.5°	754.5	756.7	755.7	754.5	753.8	754.5	755.7	756.7	754.5	756.7	755.7
38°	716.5	718.2	717.0	717.9	717.2	717.9	717.0	718.2	716.5	718.2	717.0
38.5°	678.4	677.4	677.9	678.2	680.1	678.2	677.9	677.4	678.4	677.4	677.9
39°	639.6	637.4	638.6	638.6	642.6	638.6	638.6	637.4	639.6	637.4	638.6
39.5°	598.9	597.6	599.4	600.8	603.8	600.8	599.4	597.6	598.9	597.6	599.4
40°	558.1	559.1	561.3	563.5	565.8	563.5	561.3	559.1	558.1	559.1	561.3
40.5°	517.6	520.1	522.3	527.7	527.5	527.7	522.3	520.1	517.6	520.1	522.3
41°	478.3	481.0	484.2	490.7	489.7	490.7	484.2	481.0	478.3	481.0	484.2
41.5°	438.8	442.2	446.4	454.1	452.4	454.1	446.4	442.2	438.8	442.2	446.4
42°	401.2	404.7	410.4	418.0	416.8	418.0	410.4	404.7	401.2	404.7	410.4
42.5°	364.9	368.1	375.5	383.4	382.7	383.4	375.5	368.1	364.9	368.1	375.5
43°	329.8	334.0	341.7	350.6	349.8	350.6	341.7	334.0	329.8	334.0	341.7
43.5°	298.4	300.7	308.3	317.0	317.7	317.0	308.3	300.7	298.4	300.7	308.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	208.5	209.5	217.9	225.8	229.0	225.8	217.9	209.5	208.5	209.5	217.9
45.5°	179.9	182.1	191.5	198.4	202.6	198.4	191.5	182.1	179.9	182.1	191.5
46°	154.7	156.4	166.5	174.4	178.9	174.4	166.5	156.4	154.7	156.4	166.5
46.5°	131.9	134.9	142.8	152.7	157.9	152.7	142.8	134.9	131.9	134.9	142.8
47°	111.2	114.6	120.8	131.9	136.9	131.9	120.8	114.6	111.2	114.6	120.8
47.5°	93.4	96.8	102.5	112.2	115.9	112.2	102.5	96.8	93.4	96.8	102.5
48°	77.3	81.5	85.5	94.1	94.9	94.1	85.5	81.5	77.3	81.5	85.5
48.5°	63.7	67.4	70.7	78.1	76.8	78.1	70.7	67.4	63.7	67.4	70.7
49°	52.9	55.1	57.3	64.2	62.3	64.2	57.3	55.1	52.9	55.1	57.3
49.5°	44.2	45.0	47.4	51.6	49.4	51.6	47.4	45.0	44.2	45.0	47.4
50°	35.6	35.3	38.0	42.0	39.5	42.0	38.0	35.3	35.6	35.3	38.0
50.5°	26.9	27.9	29.4	33.4	31.1	33.4	29.4	27.9	26.9	27.9	29.4
51°	20.8	21.2	24.0	26.7	24.7	26.7	24.0	21.2	20.8	21.2	24.0
51.5°	15.6	17.5	19.0	22.2	22.0	22.2	19.0	17.5	15.6	17.5	19.0
52°	13.6	14.6	16.1	17.5	19.3	17.5	16.1	14.6	13.6	14.6	16.1
52.5°	12.4	12.6	13.8	14.8	16.3	14.8	13.8	12.6	12.4	12.6	13.8
53°	11.6	11.9	11.9	12.8	13.6	12.8	11.9	11.9	11.6	11.9	11.9
53.5°	11.1	11.1	11.4	11.1	10.9	11.1	11.4	11.1	11.1	11.1	11.4
54°	10.6	10.6	10.6	10.6	10.4	10.6	10.6	10.6	10.6	10.6	10.6
54.5°	10.1	10.1	10.1	10.1	9.9	10.1	10.1	10.1	10.1	10.1	10.1
55°	9.6	9.6	9.6	9.6	9.4	9.6	9.6	9.6	9.6	9.6	9.6
55.5°	9.1	9.1	9.1	9.1	8.9	9.1	9.1	9.1	9.1	9.1	9.1
56°	8.6	8.6	8.6	8.6	8.4	8.6	8.6	8.6	8.6	8.6	8.6
56.5°	8.2	8.2	8.4	8.2	7.9	8.2	8.4	8.2	8.2	8.2	8.4
57°	7.7	7.7	7.9	7.7	7.7	7.7	7.9	7.7	7.7	7.7	7.9
57.5°	7.2	7.4	7.4	7.2	7.2	7.2	7.4	7.4	7.2	7.4	7.4
58°	6.9	6.9	6.9	6.9	6.7	6.9	6.9	6.9	6.9	6.9	6.9
58.5°	6.4	6.7	6.7	6.4	6.4	6.4	6.7	6.7	6.4	6.7	6.7
59°	6.2	6.2	6.2	6.2	5.9	6.2	6.2	6.2	6.2	6.2	6.2
59.5°	5.7	5.9	5.9	5.9	5.7	5.9	5.9	5.9	5.7	5.9	5.9
60°	5.4	5.4	5.7	5.4	5.4	5.4	5.7	5.4	5.4	5.4	5.7
60.5°	5.2	5.2	5.4	5.2	5.2	5.2	5.4	5.2	5.2	5.2	5.4
61°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
61.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
62°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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°	3.7	3.7	4.0	3.7	3.7	3.7	4.0	3.7	3.7	3.7	4.0
64°	3.5	3.5	3.7	3.7	3.5	3.7	3.7	3.5	3.5	3.5	3.7
64.5°	3.2	3.5	3.5	3.5	3.2	3.5	3.5	3.5	3.2	3.5	3.5
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65.5°	3.0	3.0	3.2	3.0	3.0	3.0	3.2	3.0	3.0	3.0	3.2
66°	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.7	3.0	3.0



TEST NUMBER: P776151

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3000K

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°	2.2	2.2	2.5	2.5	2.2	2.5	2.5	2.2	2.2	2.2	2.5
68.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
69°	2.0	2.0	2.2	2.2	2.0	2.2	2.2	2.0	2.0	2.0	2.2
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°	1.7	1.7	2.0	2.0	2.0	2.0	2.0	1.7	1.7	1.7	2.0
70.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
71°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
71.5°	1.5	1.5	1.7	1.7	1.5	1.7	1.7	1.5	1.5	1.5	1.7
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°	1.2	1.2	1.2	1.5	1.2	1.5	1.2	1.2	1.2	1.2	1.2
73.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
74°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
74.5°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.2
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°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7
77°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
78°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
78.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
79°	0.5	0.5	0.5	0.7	0.5	0.7	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°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
82°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
85.5°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776151
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3000K

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: P776151

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2
0.5°	4494.4	4499.4	4494.4	4498.9	4496.7	4496.2
1°	4491.7	4496.9	4491.7	4495.9	4492.5	4491.5
1.5°	4487.3	4492.7	4487.3	4490.5	4485.3	4483.1
2°	4480.6	4488.3	4480.6	4482.8	4474.9	4472.0
2.5°	4471.7	4480.1	4471.7	4472.2	4462.3	4457.6
3°	4459.6	4469.2	4459.6	4459.4	4447.3	4441.1
3.5°	4444.3	4455.2	4444.3	4443.6	4430.0	4421.8
4°	4425.8	4437.6	4425.8	4424.8	4411.2	4400.3
4.5°	4404.5	4416.4	4404.5	4402.3	4389.0	4375.4
5°	4379.8	4391.2	4379.8	4376.6	4364.3	4347.2
5.5°	4352.1	4362.0	4352.1	4346.0	4336.1	4315.8
6°	4321.5	4327.7	4321.5	4312.1	4304.2	4281.5
6.5°	4287.2	4289.4	4287.2	4273.6	4268.4	4243.9
7°	4250.4	4246.9	4250.4	4231.8	4228.4	4204.4
7.5°	4210.1	4202.4	4210.1	4185.9	4184.4	4162.4
8°	4166.4	4154.5	4166.4	4137.9	4137.0	4117.4
8.5°	4118.4	4105.6	4118.4	4086.8	4084.3	4068.3
9°	4066.1	4053.7	4066.1	4033.9	4028.3	4015.9
9.5°	4009.2	4002.6	4009.2	3980.1	3967.0	3958.1
10°	3947.0	3948.9	3947.0	3923.7	3903.2	3896.6
10.5°	3881.0	3893.9	3881.0	3865.7	3835.6	3831.4
11°	3812.1	3833.6	3812.1	3805.4	3766.6	3764.9
11.5°	3740.9	3767.4	3740.9	3740.4	3696.7	3695.5
12°	3670.3	3696.2	3670.3	3669.0	3626.5	3625.6
12.5°	3598.4	3616.9	3598.4	3591.7	3557.9	3551.9
13°	3525.2	3537.4	3525.2	3511.9	3488.2	3479.5
13.5°	3447.7	3452.1	3447.7	3428.6	3416.3	3404.4
14°	3366.6	3366.4	3366.6	3345.6	3340.7	3328.8
14.5°	3284.6	3281.6	3284.6	3263.4	3259.7	3250.3
15°	3200.1	3196.4	3200.1	3180.9	3174.9	3169.0
15.5°	3115.9	3116.6	3115.9	3098.6	3085.5	3082.0
16°	3030.9	3034.6	3030.9	3015.6	2995.8	2993.6
16.5°	2946.6	2955.5	2946.6	2930.6	2907.1	2900.4
17°	2863.1	2874.5	2863.1	2844.1	2818.2	2810.3
17.5°	2776.7	2787.8	2776.7	2753.4	2730.0	2719.1
18°	2686.0	2695.6	2686.0	2660.8	2639.3	2631.4
18.5°	2589.2	2596.6	2589.2	2564.0	2547.4	2540.0
19°	2482.9	2490.6	2482.9	2464.1	2451.3	2446.4
19.5°	2373.0	2380.1	2373.0	2358.6	2349.0	2348.5
20°	2258.1	2254.4	2258.1	2250.2	2245.0	2245.0
20.5°	2141.5	2130.6	2141.5	2141.7	2139.5	2143.2
21°	2036.0	2032.5	2036.0	2026.9	2036.0	2038.5



TEST NUMBER: P776151

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1791.9	1783.5	1791.9	1772.9	1757.1	1745.5
23°	1727.2	1727.4	1727.2	1701.2	1684.9	1677.0
23.5°	1660.7	1663.9	1660.7	1635.8	1625.4	1626.6
24°	1604.6	1606.1	1604.6	1584.4	1577.9	1572.5
24.5°	1552.3	1552.3	1552.3	1539.4	1533.7	1531.0
25°	1513.0	1512.5	1513.0	1501.1	1495.2	1491.7
25.5°	1474.2	1474.9	1474.2	1463.1	1456.9	1455.2
26°	1434.2	1435.4	1434.2	1425.8	1421.3	1419.8
26.5°	1399.8	1400.6	1399.8	1392.2	1387.0	1386.5
27°	1369.2	1371.7	1369.2	1359.6	1354.1	1352.6
27.5°	1337.3	1340.8	1337.3	1327.9	1322.7	1320.8
28°	1304.5	1307.7	1304.5	1297.5	1292.6	1290.6
28.5°	1273.8	1276.5	1273.8	1268.4	1263.7	1262.7
29°	1244.9	1247.9	1244.9	1240.2	1235.8	1235.0
29.5°	1218.0	1220.5	1218.0	1212.8	1209.1	1207.6
30°	1190.8	1193.3	1190.8	1185.9	1182.4	1180.9
30.5°	1164.4	1166.1	1164.4	1159.7	1156.2	1155.0
31°	1138.9	1141.4	1138.9	1134.0	1130.8	1129.5
31.5°	1114.2	1116.0	1114.2	1109.8	1106.3	1105.1
32°	1090.3	1092.0	1090.3	1085.8	1082.6	1081.6
32.5°	1066.5	1068.0	1066.5	1062.3	1060.1	1059.1
33°	1041.1	1042.6	1041.1	1039.1	1037.9	1037.4
33.5°	1013.4	1015.6	1013.4	1014.4	1014.9	1014.9
34°	984.8	989.7	984.8	988.0	988.5	989.5
34.5°	955.4	959.1	955.4	959.6	959.8	962.0
35°	925.5	927.9	925.5	929.4	929.4	932.4
35.5°	893.8	895.3	893.8	897.3	898.8	900.0
36°	861.2	861.5	861.2	863.2	865.9	866.4
36.5°	826.7	825.2	826.7	827.9	831.8	830.9
37°	791.3	789.3	791.3	792.1	795.5	792.6
37.5°	754.5	753.8	754.5	755.7	756.7	754.5
38°	717.9	717.2	717.9	717.0	718.2	716.5
38.5°	678.2	680.1	678.2	677.9	677.4	678.4
39°	638.6	642.6	638.6	638.6	637.4	639.6
39.5°	600.8	603.8	600.8	599.4	597.6	598.9
40°	563.5	565.8	563.5	561.3	559.1	558.1
40.5°	527.7	527.5	527.7	522.3	520.1	517.6
41°	490.7	489.7	490.7	484.2	481.0	478.3
41.5°	454.1	452.4	454.1	446.4	442.2	438.8
42°	418.0	416.8	418.0	410.4	404.7	401.2
42.5°	383.4	382.7	383.4	375.5	368.1	364.9
43°	350.6	349.8	350.6	341.7	334.0	329.8
43.5°	317.0	317.7	317.0	308.3	300.7	298.4



TEST NUMBER: P776151

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	225.8	229.0	225.8	217.9	209.5	208.5
45.5°	198.4	202.6	198.4	191.5	182.1	179.9
46°	174.4	178.9	174.4	166.5	156.4	154.7
46.5°	152.7	157.9	152.7	142.8	134.9	131.9
47°	131.9	136.9	131.9	120.8	114.6	111.2
47.5°	112.2	115.9	112.2	102.5	96.8	93.4
48°	94.1	94.9	94.1	85.5	81.5	77.3
48.5°	78.1	76.8	78.1	70.7	67.4	63.7
49°	64.2	62.3	64.2	57.3	55.1	52.9
49.5°	51.6	49.4	51.6	47.4	45.0	44.2
50°	42.0	39.5	42.0	38.0	35.3	35.6
50.5°	33.4	31.1	33.4	29.4	27.9	26.9
51°	26.7	24.7	26.7	24.0	21.2	20.8
51.5°	22.2	22.0	22.2	19.0	17.5	15.6
52°	17.5	19.3	17.5	16.1	14.6	13.6
52.5°	14.8	16.3	14.8	13.8	12.6	12.4
53°	12.8	13.6	12.8	11.9	11.9	11.6
53.5°	11.1	10.9	11.1	11.4	11.1	11.1
54°	10.6	10.4	10.6	10.6	10.6	10.6
54.5°	10.1	9.9	10.1	10.1	10.1	10.1
55°	9.6	9.4	9.6	9.6	9.6	9.6
55.5°	9.1	8.9	9.1	9.1	9.1	9.1
56°	8.6	8.4	8.6	8.6	8.6	8.6
56.5°	8.2	7.9	8.2	8.4	8.2	8.2
57°	7.7	7.7	7.7	7.9	7.7	7.7
57.5°	7.2	7.2	7.2	7.4	7.4	7.2
58°	6.9	6.7	6.9	6.9	6.9	6.9
58.5°	6.4	6.4	6.4	6.7	6.7	6.4
59°	6.2	5.9	6.2	6.2	6.2	6.2
59.5°	5.9	5.7	5.9	5.9	5.9	5.7
60°	5.4	5.4	5.4	5.7	5.4	5.4
60.5°	5.2	5.2	5.2	5.4	5.2	5.2
61°	4.9	4.9	4.9	4.9	4.9	4.9
61.5°	4.7	4.7	4.7	4.7	4.7	4.7
62°	4.4	4.4	4.4	4.4	4.4	4.4
62.5°	4.2	4.2	4.2	4.2	4.2	4.2
63°	4.0	4.0	4.0	4.0	4.0	4.0
63.5°	3.7	3.7	3.7	4.0	3.7	3.7
64°	3.7	3.5	3.7	3.7	3.5	3.5
64.5°	3.5	3.2	3.5	3.5	3.5	3.2
65°	3.2	3.2	3.2	3.2	3.2	3.2
65.5°	3.0	3.0	3.0	3.2	3.0	3.0
66°	3.0	3.0	3.0	3.0	3.0	2.7



TEST NUMBER: P776151

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-3000K

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	2.2	2.5	2.5	2.2	2.2
68.5°	2.2	2.2	2.2	2.2	2.2	2.2
69°	2.2	2.0	2.2	2.2	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	1.7	1.7
70.5°	1.7	1.7	1.7	1.7	1.7	1.7
71°	1.7	1.7	1.7	1.7	1.7	1.7
71.5°	1.7	1.5	1.7	1.7	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	1.2	1.5	1.2	1.2	1.2
73.5°	1.2	1.2	1.2	1.2	1.2	1.2
74°	1.2	1.2	1.2	1.2	1.2	1.2
74.5°	1.2	1.2	1.2	1.2	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	0.7	0.7	0.7
77°	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7
78°	0.7	0.7	0.7	0.7	0.7	0.7
78.5°	0.7	0.7	0.7	0.7	0.5	0.5
79°	0.7	0.5	0.7	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	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.0	0.0
85.5°	0.2	0.2	0.2	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: P776151

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-3000K

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

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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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°	1931.7	1930.5	1934.0	1944.8	1943.3	1944.8	1934.0	1930.5	1931.7	1930.5	1934.0
22°	1823.3	1840.6	1848.7	1863.1	1861.3	1863.1	1848.7	1840.6	1823.3	1840.6	1848.7



44°	267.6	269.5	276.5	285.1	286.1	285.1	276.5	269.5	267.6	269.5	276.5
44.5°	237.7	238.9	245.6	254.5	256.9	254.5	245.6	238.9	237.7	238.9	245.6



66.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
67°	2.5	2.5	2.7	2.7	2.5	2.7	2.7	2.5	2.5	2.5	2.7



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°	1944.8	1943.3	1944.8	1934.0	1930.5	1931.7
22°	1863.1	1861.3	1863.1	1848.7	1840.6	1823.3



44°	285.1	286.1	285.1	276.5	269.5	267.6
44.5°	254.5	256.9	254.5	245.6	238.9	237.7



66.5°	2.7	2.7	2.7	2.7	2.7	2.7
67°	2.7	2.5	2.7	2.7	2.5	2.5

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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)