

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: P775990

Luminaire Tested: HCDJBS1525CSD-HCD4TRMB-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TRMB-2500lm-2700K
Description: 4 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1534.7 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.94
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

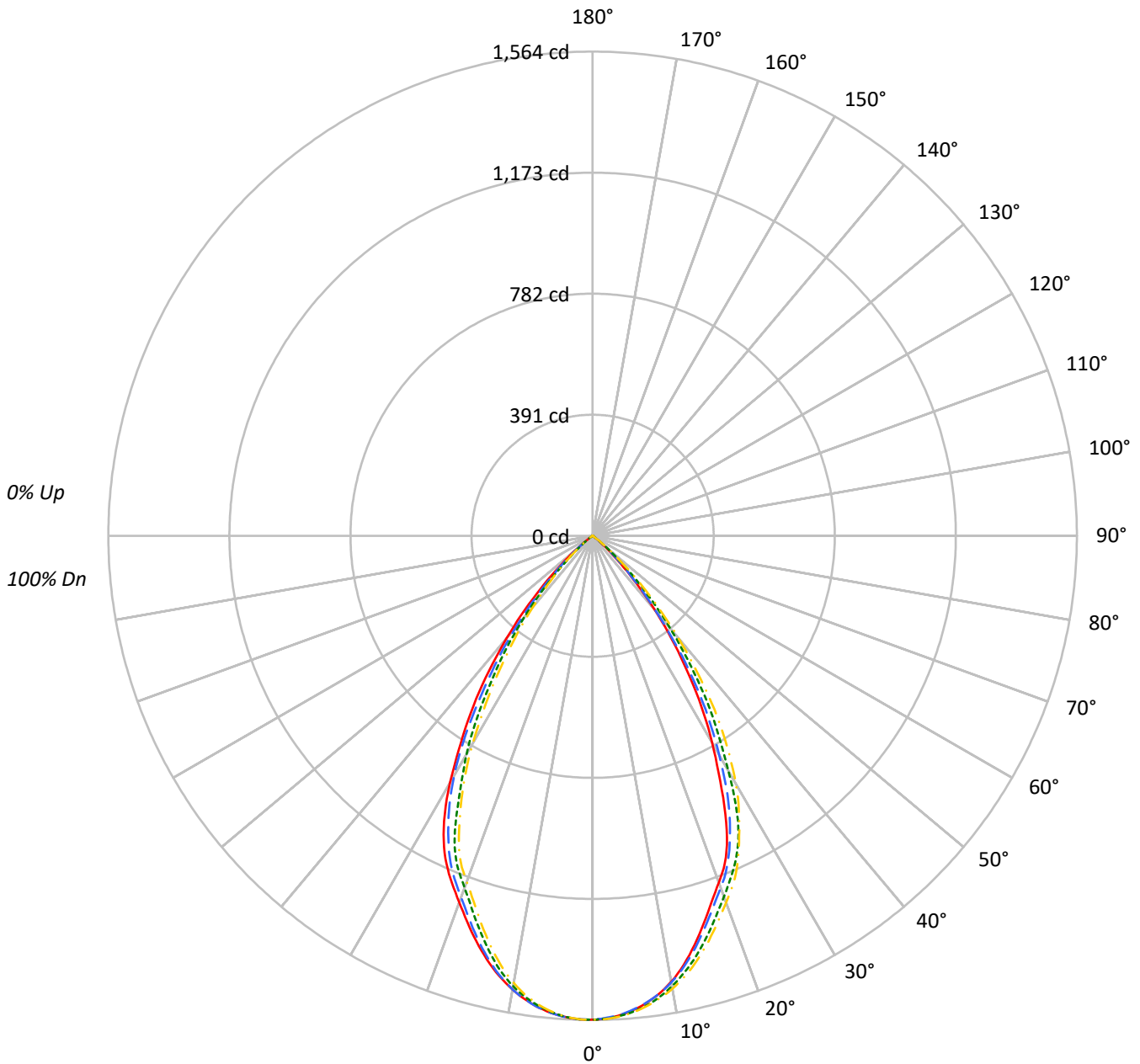
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775990

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-2700K

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								
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86								
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	82	80								
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74								
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69								
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64								
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59								
8	78	68	62	58	77	67	62	57	66	61	57	65	60	57	64	60	57	55								
9	74	64	58	54	73	63	58	54	62	57	53	62	57	53	61	56	53	52								
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	196741	196741	196741	196741
5°	194157	194827	195408	195042
10°	186895	188748	190179	188812
15°	173558	178353	180763	176334
20°	159640	166069	168694	161984
25°	141762	153940	156967	146136
30°	112186	127285	133810	118202
35°	81549	96897	103181	86880
40°	51043	63989	71004	56103
45°	23084	34296	39511	26359
50°	6696	10494	13666	7871
55°	1053	1053	1426	1338
60°	428	428	478	428
65°	298	298	298	298
70°	184	258	258	258
75°	97	243	97	243
80°	0	145	145	145
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°
 Vertical Angle: 45°
 Luminance: 39511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	9.5
10°-20°	380.7	24.8
20°-30°	485.8	31.7
30°-40°	371.5	24.2
40°-50°	138.8	9.0
50°-60°	11.3	0.7
60°-70°	1.0	0.1
70°-80°	0.4	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°	1011.7	65.9
0°-40°	1383.1	90.1
0°-60°	1533.3	99.9
0°-90°	1534.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1563	1563	1563	1563	1563	
5°	1537	1542	1547	1544	1537	144
15°	1332	1369	1387	1353	1332	373
25°	1021	1109	1130	1052	1021	459
35°	531	631	672	566	531	331
45°	130	193	222	148	130	109
55°	5	5	6	6	5	8
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	



TEST NUMBER: P775990

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRMB-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
0.5°	1562.8	1561.6	1561.6	1561.6	1562.8	1563.1	1563.8	1564.3	1563.6	1562.8	1562.8
1°	1561.9	1560.7	1560.4	1560.7	1561.9	1562.4	1563.1	1563.6	1563.3	1562.8	1562.6
1.5°	1560.4	1559.0	1558.7	1559.0	1560.7	1561.4	1562.1	1562.8	1562.4	1562.1	1562.4
2°	1558.5	1557.0	1556.5	1557.0	1559.2	1559.9	1560.7	1561.4	1561.4	1561.1	1561.4
2.5°	1556.1	1554.4	1554.1	1554.8	1557.3	1558.0	1558.7	1559.7	1559.9	1559.7	1559.9
3°	1553.1	1551.5	1551.2	1552.2	1554.8	1555.8	1556.5	1557.5	1558.0	1558.0	1558.2
3.5°	1549.8	1547.8	1548.1	1549.3	1552.2	1553.1	1554.1	1555.1	1555.8	1556.1	1556.1
4°	1545.9	1544.2	1544.2	1545.6	1549.3	1550.2	1551.0	1552.2	1553.1	1553.6	1553.6
4.5°	1541.5	1539.8	1540.1	1542.0	1546.1	1547.1	1547.8	1549.0	1550.2	1550.7	1550.7
5°	1536.9	1535.0	1535.2	1537.6	1542.2	1543.2	1543.9	1545.4	1546.8	1547.6	1547.3
5.5°	1531.6	1529.4	1530.4	1532.8	1537.9	1538.8	1539.8	1541.3	1543.0	1543.7	1543.2
6°	1526.0	1523.8	1524.8	1527.7	1533.3	1534.2	1535.2	1536.9	1538.8	1539.6	1538.8
6.5°	1519.9	1518.0	1519.2	1522.1	1527.9	1529.4	1530.4	1532.1	1534.2	1535.0	1534.2
7°	1513.4	1511.5	1512.9	1515.8	1522.1	1523.8	1525.0	1527.0	1528.9	1529.9	1529.2
7.5°	1506.4	1504.7	1505.9	1509.0	1515.8	1517.8	1519.5	1521.2	1523.1	1524.3	1523.6
8°	1498.9	1497.4	1498.6	1502.0	1509.0	1511.2	1513.4	1515.3	1517.3	1518.0	1517.3
8.5°	1490.6	1489.6	1491.1	1494.3	1501.8	1504.2	1507.1	1508.8	1510.5	1511.7	1510.7
9°	1481.9	1481.2	1482.9	1486.0	1494.0	1497.2	1500.3	1502.0	1503.7	1504.4	1503.7
9.5°	1472.2	1472.2	1474.1	1477.5	1485.8	1489.4	1493.0	1495.2	1496.2	1496.9	1496.2
10°	1462.5	1462.5	1464.7	1468.3	1477.0	1481.4	1485.3	1487.5	1488.2	1488.7	1487.9
10.5°	1452.3	1452.3	1454.7	1458.9	1468.6	1472.7	1477.0	1479.5	1480.0	1480.2	1479.2
11°	1440.7	1441.2	1444.3	1448.4	1458.9	1463.7	1468.6	1471.0	1471.5	1471.2	1470.0
11.5°	1428.8	1429.8	1433.4	1437.8	1448.9	1454.5	1459.8	1462.0	1462.0	1461.8	1460.1
12°	1416.2	1417.7	1421.8	1426.6	1439.0	1444.8	1450.4	1452.8	1452.8	1451.8	1450.1
12.5°	1403.1	1404.8	1409.4	1415.2	1428.1	1434.4	1440.4	1443.1	1442.9	1441.4	1439.5
13°	1389.5	1391.7	1397.1	1403.4	1416.9	1423.7	1430.5	1433.2	1432.4	1430.5	1427.6
13.5°	1375.5	1378.4	1384.0	1390.8	1405.8	1412.8	1419.6	1422.3	1421.8	1419.6	1416.2
14°	1361.2	1364.6	1371.1	1378.4	1393.4	1401.7	1408.5	1411.6	1410.6	1407.7	1403.8
14.5°	1346.6	1350.5	1357.6	1365.5	1381.3	1390.0	1396.8	1400.0	1399.0	1395.8	1391.0
15°	1332.1	1336.2	1343.7	1352.2	1368.9	1377.9	1385.2	1388.3	1387.4	1383.5	1378.2
15.5°	1317.1	1321.9	1329.7	1339.1	1356.6	1365.5	1373.3	1376.2	1375.2	1371.1	1364.8
16°	1302.0	1307.4	1316.1	1325.6	1343.5	1353.4	1361.2	1364.1	1362.9	1358.3	1351.5
16.5°	1287.5	1293.3	1302.3	1312.2	1330.6	1340.8	1348.3	1352.2	1350.5	1345.4	1337.9
17°	1273.0	1278.8	1288.2	1298.9	1317.6	1328.0	1336.0	1339.4	1337.7	1332.1	1324.3
17.5°	1258.4	1264.5	1274.4	1285.6	1304.2	1314.9	1322.9	1326.0	1324.6	1318.8	1310.3
18°	1243.9	1250.4	1260.6	1272.0	1291.1	1302.0	1310.0	1313.7	1311.5	1305.4	1296.7
18.5°	1229.8	1237.1	1247.0	1258.7	1277.8	1289.2	1297.4	1300.6	1298.2	1291.9	1282.7
19°	1216.7	1224.2	1234.7	1245.8	1265.0	1276.6	1284.6	1287.7	1285.1	1278.5	1268.8
19.5°	1204.4	1212.1	1222.1	1233.5	1252.6	1264.0	1272.5	1275.4	1272.7	1265.2	1255.3
20°	1192.0	1200.0	1209.9	1221.3	1240.0	1251.6	1260.8	1263.3	1259.6	1252.6	1242.4
20.5°	1179.9	1187.6	1197.8	1209.0	1227.9	1239.8	1248.7	1251.4	1247.8	1240.0	1229.8
21°	1167.5	1175.5	1185.2	1196.6	1215.8	1227.9	1236.4	1239.5	1235.6	1227.9	1217.5



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CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1124.1	1131.7	1141.1	1156.1	1178.9	1190.8	1198.6	1202.2	1199.3	1191.3	1179.6
23°	1106.7	1114.4	1124.4	1142.1	1166.1	1177.5	1184.3	1188.6	1186.9	1178.4	1165.8
23.5°	1087.8	1096.0	1106.9	1126.1	1152.7	1163.2	1168.5	1173.3	1173.6	1165.3	1151.0
24°	1066.7	1075.4	1088.5	1109.4	1139.2	1147.9	1151.8	1157.8	1159.8	1151.8	1135.5
24.5°	1044.4	1053.1	1068.9	1091.7	1124.4	1132.4	1135.0	1141.1	1145.5	1137.2	1118.6
25°	1020.9	1029.4	1049.7	1073.7	1108.6	1115.7	1117.4	1123.9	1130.4	1122.4	1101.1
25.5°	996.2	1005.1	1029.6	1054.1	1092.1	1098.0	1098.5	1105.7	1114.4	1106.4	1082.9
26°	970.5	980.4	1009.5	1035.2	1074.2	1079.3	1080.0	1087.3	1097.2	1089.7	1064.5
26.5°	944.3	955.7	987.7	1015.3	1054.6	1059.9	1061.9	1068.6	1078.8	1071.5	1044.9
27°	917.9	931.5	965.6	994.7	1033.5	1040.3	1043.7	1050.0	1059.2	1051.7	1025.3
27.5°	892.7	907.5	942.6	973.6	1010.2	1020.2	1025.3	1031.1	1039.1	1031.1	1005.9
28°	867.2	884.7	918.4	951.1	985.7	999.6	1006.3	1012.2	1016.8	1009.0	985.0
28.5°	842.5	862.6	893.6	927.3	959.1	977.7	987.4	992.8	994.2	986.5	963.9
29°	818.7	840.8	868.7	903.1	931.9	955.7	968.1	973.1	971.2	961.8	941.9
29.5°	795.2	818.7	843.0	877.4	904.1	932.7	947.0	952.1	946.0	936.5	918.6
30°	772.0	796.2	817.5	850.5	875.9	908.4	925.2	931.0	920.8	910.4	893.9
30.5°	748.9	772.9	793.1	822.4	849.3	883.5	902.1	908.2	893.9	883.0	869.2
31°	725.4	748.9	768.1	795.0	823.4	857.8	879.6	885.9	867.7	855.6	843.5
31.5°	701.9	724.2	744.1	766.2	798.4	831.8	856.1	861.6	841.5	828.0	817.8
32°	678.2	699.3	719.4	738.0	774.9	805.4	833.0	837.4	816.6	801.3	790.6
32.5°	654.4	672.8	694.9	710.6	750.9	779.5	809.8	812.0	791.4	775.4	764.7
33°	629.7	646.9	669.9	682.5	728.1	753.8	786.0	787.0	767.4	749.7	737.1
33.5°	604.5	621.0	644.7	654.9	703.9	728.3	761.3	761.8	742.6	724.5	709.2
34°	579.5	596.2	618.8	628.0	679.6	704.1	736.8	736.6	719.6	699.5	680.8
34.5°	555.3	570.6	593.1	601.8	654.7	680.4	711.4	710.4	695.4	675.3	653.9
35°	530.8	546.6	567.4	575.9	630.7	657.6	685.9	685.2	671.6	651.3	626.1
35.5°	507.8	523.5	541.0	550.7	604.0	633.8	659.0	659.7	647.4	627.0	599.9
36°	485.0	500.3	514.6	526.2	578.3	609.8	632.6	634.3	624.1	602.5	574.4
36.5°	462.7	477.5	488.9	502.2	553.1	586.3	605.7	608.6	599.2	577.6	549.7
37°	440.6	454.2	462.0	478.5	528.4	562.8	579.3	582.4	574.4	552.1	524.7
37.5°	418.8	431.7	436.0	455.2	503.7	538.3	552.6	557.7	549.5	526.9	501.5
38°	397.0	408.4	410.6	431.7	480.4	513.6	527.9	533.2	525.0	501.7	477.7
38.5°	375.2	385.4	386.8	408.9	457.1	488.6	502.4	509.2	501.2	477.0	454.2
39°	353.9	362.8	364.0	386.6	435.1	464.4	477.5	485.2	478.0	454.5	430.9
39.5°	331.8	339.3	341.3	365.7	411.8	440.2	452.8	461.5	454.7	430.0	408.2
40°	310.7	316.8	319.0	343.9	389.5	416.9	428.0	437.2	432.2	407.4	385.4
40.5°	289.6	294.7	298.6	323.6	367.7	393.9	403.6	413.7	409.4	385.9	362.8
41°	269.0	273.4	278.2	303.5	346.4	371.8	380.0	390.0	388.3	365.5	340.1
41.5°	248.7	252.8	258.6	283.6	324.3	349.5	357.3	366.0	366.5	343.9	318.5
42°	230.0	232.4	239.5	263.5	302.7	328.2	334.7	343.0	343.9	324.1	296.9
42.5°	211.4	213.5	221.5	245.3	282.4	306.8	312.7	320.9	322.4	303.9	276.6
43°	193.9	195.1	203.6	227.1	262.7	285.5	291.1	299.3	301.5	285.3	256.9
43.5°	176.5	177.4	187.1	209.2	243.8	263.9	271.0	278.2	280.4	264.9	238.0



TEST NUMBER: P775990

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	129.7	128.5	140.8	159.5	192.7	204.8	214.5	220.6	222.0	212.3	187.1
45.5°	115.6	114.2	127.5	144.5	175.7	185.4	196.3	202.4	203.8	195.1	170.1
46°	102.5	101.1	114.6	130.2	158.8	166.0	178.1	184.2	185.7	177.9	154.9
46.5°	89.9	88.7	102.8	117.1	143.0	149.1	160.2	166.3	167.5	160.9	140.6
47°	81.0	80.0	91.1	104.5	127.7	133.1	144.0	149.3	150.5	145.2	126.8
47.5°	72.2	71.0	82.2	92.3	113.2	118.0	128.5	133.5	135.2	130.6	113.9
48°	63.5	62.0	73.2	81.0	99.4	104.2	114.4	118.5	120.5	116.8	102.0
48.5°	54.8	53.3	64.2	71.0	86.5	91.1	100.8	104.7	106.6	102.8	90.9
49°	46.1	44.4	55.3	62.5	74.4	79.5	88.0	91.4	93.3	90.2	80.2
49.5°	40.0	38.5	46.3	54.8	63.3	68.6	76.1	79.3	81.2	78.5	70.5
50°	34.2	33.0	39.3	47.0	53.6	58.7	65.0	68.4	69.8	67.6	61.6
50.5°	29.1	28.1	33.0	39.3	44.8	49.7	55.0	58.4	59.6	57.9	53.1
51°	24.5	23.5	27.1	31.5	37.1	41.4	45.8	49.2	50.2	48.7	45.6
51.5°	20.1	19.4	22.1	25.7	32.2	34.2	37.8	40.7	41.7	41.0	38.5
52°	16.5	15.8	17.5	20.4	27.4	29.1	32.2	33.4	34.2	33.9	32.2
52.5°	13.1	12.4	13.6	15.5	22.5	24.2	26.7	28.6	29.1	29.1	27.6
53°	9.9	9.5	10.2	11.6	17.7	19.1	21.3	23.5	24.2	24.0	23.0
53.5°	8.7	8.2	9.0	8.5	12.8	14.1	15.8	18.7	19.1	19.1	18.4
54°	7.5	6.8	7.5	7.0	8.0	9.2	10.4	13.6	14.1	14.3	13.6
54.5°	6.3	5.3	6.3	6.1	5.8	6.5	7.3	8.7	9.2	9.2	9.2
55°	4.8	4.1	4.8	4.8	4.8	5.1	5.6	6.3	6.5	6.8	6.8
55.5°	3.6	3.6	3.6	3.9	4.1	4.4	4.6	4.8	5.1	5.3	5.1
56°	3.4	3.2	3.2	3.4	3.6	3.9	3.9	4.1	4.4	4.4	4.4
56.5°	2.9	2.9	2.9	2.9	3.2	3.4	3.6	3.6	3.9	3.9	3.9
57°	2.7	2.7	2.7	2.7	2.9	2.9	3.2	3.4	3.4	3.4	3.4
57.5°	2.4	2.4	2.4	2.4	2.7	2.7	2.9	2.9	3.2	3.2	3.2
58°	2.2	2.2	2.2	2.2	2.4	2.4	2.4	2.7	2.7	2.7	2.7
58.5°	1.9	1.9	1.9	1.9	2.2	2.2	2.2	2.4	2.4	2.4	2.4
59°	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.2	2.2	2.2	2.2
59.5°	1.7	1.7	1.7	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.9
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.9	1.9	1.9
60.5°	1.5	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
61°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.7	1.7	1.7
61.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5
63°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
63.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
64°	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2
64.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
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°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P775990

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
68°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
68.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
69°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
69.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.7
71°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7
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°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
75.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.5
76°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
81.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
82°	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.2
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: P775990

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-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: P775990

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
0.5°	1562.8	1563.3	1563.6	1563.8	1563.8	1562.8
1°	1562.8	1563.1	1563.1	1563.3	1563.1	1561.9
1.5°	1562.4	1562.4	1562.4	1562.4	1561.9	1560.4
2°	1561.4	1561.1	1561.1	1560.9	1559.9	1558.5
2.5°	1559.9	1559.5	1559.2	1559.0	1557.8	1556.1
3°	1558.2	1557.3	1557.0	1556.5	1555.3	1553.1
3.5°	1555.8	1554.6	1554.4	1553.6	1551.9	1549.8
4°	1552.9	1551.5	1551.2	1550.2	1548.3	1545.9
4.5°	1549.8	1547.8	1547.3	1546.4	1544.4	1541.5
5°	1546.4	1543.9	1543.0	1541.8	1539.8	1536.9
5.5°	1542.2	1539.3	1538.1	1536.9	1534.2	1531.6
6°	1537.6	1534.2	1533.0	1531.3	1528.9	1526.0
6.5°	1532.8	1528.9	1527.5	1525.5	1522.9	1519.9
7°	1527.5	1523.1	1521.2	1519.0	1515.8	1513.4
7.5°	1521.6	1516.8	1514.4	1511.7	1508.6	1506.4
8°	1515.6	1510.0	1507.1	1503.9	1501.3	1498.9
8.5°	1508.8	1502.7	1499.3	1495.7	1492.8	1490.6
9°	1501.5	1495.0	1490.9	1486.7	1483.8	1481.9
9.5°	1493.8	1486.5	1481.9	1477.0	1473.6	1472.2
10°	1485.5	1477.5	1472.2	1467.1	1464.0	1462.5
10.5°	1476.6	1468.1	1461.8	1456.2	1453.3	1452.3
11°	1467.3	1457.9	1450.9	1444.8	1441.7	1440.7
11.5°	1457.4	1446.7	1439.2	1432.7	1429.3	1428.8
12°	1446.5	1435.4	1426.9	1419.8	1416.4	1416.2
12.5°	1435.4	1422.8	1413.8	1406.5	1403.1	1403.1
13°	1423.7	1409.7	1400.5	1392.9	1389.3	1389.5
13.5°	1411.1	1396.3	1386.4	1378.4	1375.5	1375.5
14°	1398.0	1382.5	1372.1	1363.9	1360.2	1361.2
14.5°	1384.7	1368.0	1357.3	1349.3	1345.4	1346.6
15°	1371.1	1353.4	1342.3	1334.3	1330.6	1332.1
15.5°	1357.1	1338.9	1327.3	1319.3	1315.6	1317.1
16°	1343.0	1323.9	1312.2	1303.5	1300.6	1302.0
16.5°	1328.7	1309.3	1297.2	1288.5	1285.6	1287.5
17°	1314.2	1294.5	1281.7	1273.2	1270.3	1273.0
17.5°	1299.6	1279.5	1266.7	1258.4	1255.5	1258.4
18°	1285.3	1264.5	1251.9	1243.1	1241.0	1243.9
18.5°	1271.0	1250.2	1236.8	1228.4	1226.4	1229.8
19°	1256.7	1235.6	1222.5	1214.3	1212.9	1216.7
19.5°	1243.1	1222.3	1209.7	1201.5	1199.8	1204.4
20°	1230.1	1209.5	1196.4	1188.9	1187.2	1192.0
20.5°	1217.5	1197.1	1184.0	1176.3	1175.0	1179.9
21°	1204.9	1184.7	1171.2	1163.4	1162.9	1167.5

TEST NUMBER: P775990

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1166.8	1146.2	1130.9	1121.2	1118.8	1124.1
23°	1151.8	1130.9	1114.4	1103.1	1100.6	1106.7
23.5°	1136.3	1114.2	1096.8	1083.4	1082.0	1087.8
24°	1119.3	1095.3	1076.4	1061.9	1060.9	1066.7
24.5°	1101.4	1074.7	1056.3	1039.6	1038.6	1044.4
25°	1082.2	1052.4	1034.0	1016.0	1015.6	1020.9
25.5°	1062.6	1028.4	1011.0	993.0	992.3	996.2
26°	1041.7	1003.2	986.2	970.5	967.6	970.5
26.5°	1020.2	976.8	961.5	947.7	943.6	944.3
27°	998.1	951.3	935.1	925.4	919.1	917.9
27.5°	974.8	926.1	907.2	901.6	894.1	892.7
28°	951.1	902.6	880.3	877.9	869.4	867.2
28.5°	927.3	879.6	854.1	853.2	844.7	842.5
29°	902.9	857.3	828.9	827.5	819.0	818.7
29.5°	878.4	835.7	804.4	800.8	793.5	795.2
30°	854.6	813.4	780.2	774.2	767.4	772.0
30.5°	830.4	790.4	756.7	746.5	740.7	748.9
31°	806.9	766.9	733.2	718.6	714.5	725.4
31.5°	784.1	741.9	709.7	692.2	687.9	701.9
32°	760.8	716.5	685.7	665.8	662.7	678.2
32.5°	737.8	690.8	662.2	639.9	638.4	654.4
33°	714.8	664.6	637.9	614.9	614.4	629.7
33.5°	691.7	638.4	613.5	589.5	590.7	604.5
34°	667.3	613.2	589.0	564.7	566.9	579.5
34.5°	642.5	589.2	563.8	540.0	542.9	555.3
35°	616.6	565.5	539.3	515.3	518.9	530.8
35.5°	591.6	543.2	515.8	490.8	494.9	507.8
36°	564.0	521.6	492.3	467.5	470.7	485.0
36.5°	538.1	499.3	470.2	445.2	446.2	462.7
37°	511.4	477.5	447.7	423.2	422.7	440.6
37.5°	486.2	455.4	425.6	401.6	399.9	418.8
38°	460.8	432.4	403.8	380.3	377.9	397.0
38.5°	437.0	409.4	382.2	359.4	356.8	375.2
39°	412.8	386.8	361.6	339.6	336.9	353.9
39.5°	389.3	364.0	340.1	319.2	317.3	331.8
40°	365.7	341.5	319.5	300.3	298.1	310.7
40.5°	343.7	319.7	299.3	281.2	279.2	289.6
41°	321.1	299.1	279.5	263.2	261.5	269.0
41.5°	299.6	278.5	260.3	246.0	243.6	248.7
42°	278.5	259.1	241.6	230.0	226.6	230.0
42.5°	257.9	239.7	223.7	213.8	210.1	211.4
43°	238.0	221.0	206.5	198.7	194.6	193.9
43.5°	220.3	201.7	190.3	183.7	179.1	176.5



TEST NUMBER: P775990

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	167.7	148.1	144.9	142.8	137.9	129.7
45.5°	152.2	131.9	131.1	130.2	125.3	115.6
46°	137.7	116.8	118.3	118.5	113.9	102.5
46.5°	123.9	102.8	105.9	107.4	102.5	89.9
47°	111.0	90.4	94.0	96.5	91.9	81.0
47.5°	99.1	81.4	83.1	86.5	83.1	72.2
48°	87.7	72.5	74.7	78.3	74.7	63.5
48.5°	77.6	63.7	65.9	70.0	65.9	54.8
49°	68.1	55.0	57.4	61.8	57.2	46.1
49.5°	59.4	46.3	49.0	53.6	48.5	40.0
50°	51.4	40.2	41.9	45.3	41.7	34.2
50.5°	44.4	34.9	35.9	38.5	34.9	29.1
51°	37.8	29.8	30.5	32.5	29.3	24.5
51.5°	32.2	25.4	25.4	26.9	24.2	20.1
52°	27.9	21.3	20.8	21.8	19.4	16.5
52.5°	23.8	17.5	17.0	17.2	15.3	13.1
53°	19.4	14.1	13.3	13.1	11.6	9.9
53.5°	15.3	10.9	10.2	9.7	8.5	8.7
54°	10.9	8.2	8.7	8.2	7.3	7.5
54.5°	8.2	7.0	7.5	6.8	6.1	6.3
55°	6.3	6.1	6.3	5.3	4.8	4.8
55.5°	4.8	4.8	4.8	3.9	3.9	3.6
56°	4.4	3.9	3.6	3.6	3.4	3.4
56.5°	3.6	3.4	3.2	3.2	3.2	2.9
57°	3.4	2.9	2.9	2.9	2.7	2.7
57.5°	2.9	2.7	2.7	2.7	2.4	2.4
58°	2.7	2.4	2.4	2.4	2.2	2.2
58.5°	2.4	2.2	2.2	2.2	2.2	1.9
59°	2.2	1.9	1.9	1.9	1.9	1.9
59.5°	1.9	1.9	1.9	1.9	1.7	1.7
60°	1.9	1.7	1.7	1.7	1.7	1.7
60.5°	1.7	1.7	1.7	1.7	1.7	1.5
61°	1.7	1.5	1.5	1.5	1.5	1.5
61.5°	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.2	1.2
62.5°	1.5	1.2	1.2	1.2	1.2	1.2
63°	1.2	1.2	1.2	1.2	1.2	1.2
63.5°	1.2	1.2	1.2	1.2	1.2	1.2
64°	1.2	1.2	1.2	1.2	1.0	1.0
64.5°	1.2	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	0.7



TEST NUMBER: P775990

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.7	0.7	0.7	0.7	0.7	0.7
68°	0.7	0.7	0.7	0.7	0.7	0.7
68.5°	0.7	0.7	0.7	0.7	0.7	0.7
69°	0.7	0.7	0.7	0.7	0.7	0.7
69.5°	0.7	0.7	0.7	0.7	0.7	0.5
70°	0.7	0.7	0.7	0.7	0.5	0.5
70.5°	0.7	0.7	0.7	0.5	0.5	0.5
71°	0.7	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	0.2
74.5°	0.5	0.5	0.5	0.5	0.2	0.2
75°	0.5	0.5	0.5	0.5	0.2	0.2
75.5°	0.5	0.5	0.5	0.2	0.2	0.2
76°	0.5	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.0
80.5°	0.2	0.2	0.2	0.2	0.0	0.0
81°	0.2	0.2	0.2	0.2	0.0	0.0
81.5°	0.2	0.2	0.2	0.2	0.0	0.0
82°	0.2	0.2	0.2	0.0	0.0	0.0
82.5°	0.2	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: P775990

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-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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Scaled Data Report





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

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21.5°	1154.7	1162.4	1171.6	1184.0	1203.6	1216.2	1225.2	1227.6	1223.5	1215.3	1205.1
22°	1140.1	1147.7	1156.9	1170.9	1191.5	1203.6	1212.4	1215.5	1211.6	1203.2	1193.0



44°	160.5	160.2	170.6	191.5	226.9	243.3	250.9	257.6	259.8	246.7	221.0
44.5°	144.0	144.0	155.4	175.5	209.9	224.0	232.7	238.7	240.2	229.5	204.1



66.5°	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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	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°	1192.5	1172.6	1159.3	1151.5	1149.6	1154.7
22°	1180.4	1159.8	1145.5	1137.2	1135.0	1140.1



44°	202.9	183.2	174.5	169.4	164.6	160.5
44.5°	185.2	165.3	159.5	155.6	151.0	144.0

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Scaled Data Report



66.5°	1.0	1.0	1.0	1.0	0.7	0.7
67°	1.0	1.0	0.7	0.7	0.7	0.7

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Scaled Data Report



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

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Scaled Data Report



(END OF REPORT)