

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: P775963

Luminaire Tested: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B054)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K
Description: 4 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2487.8 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.01 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

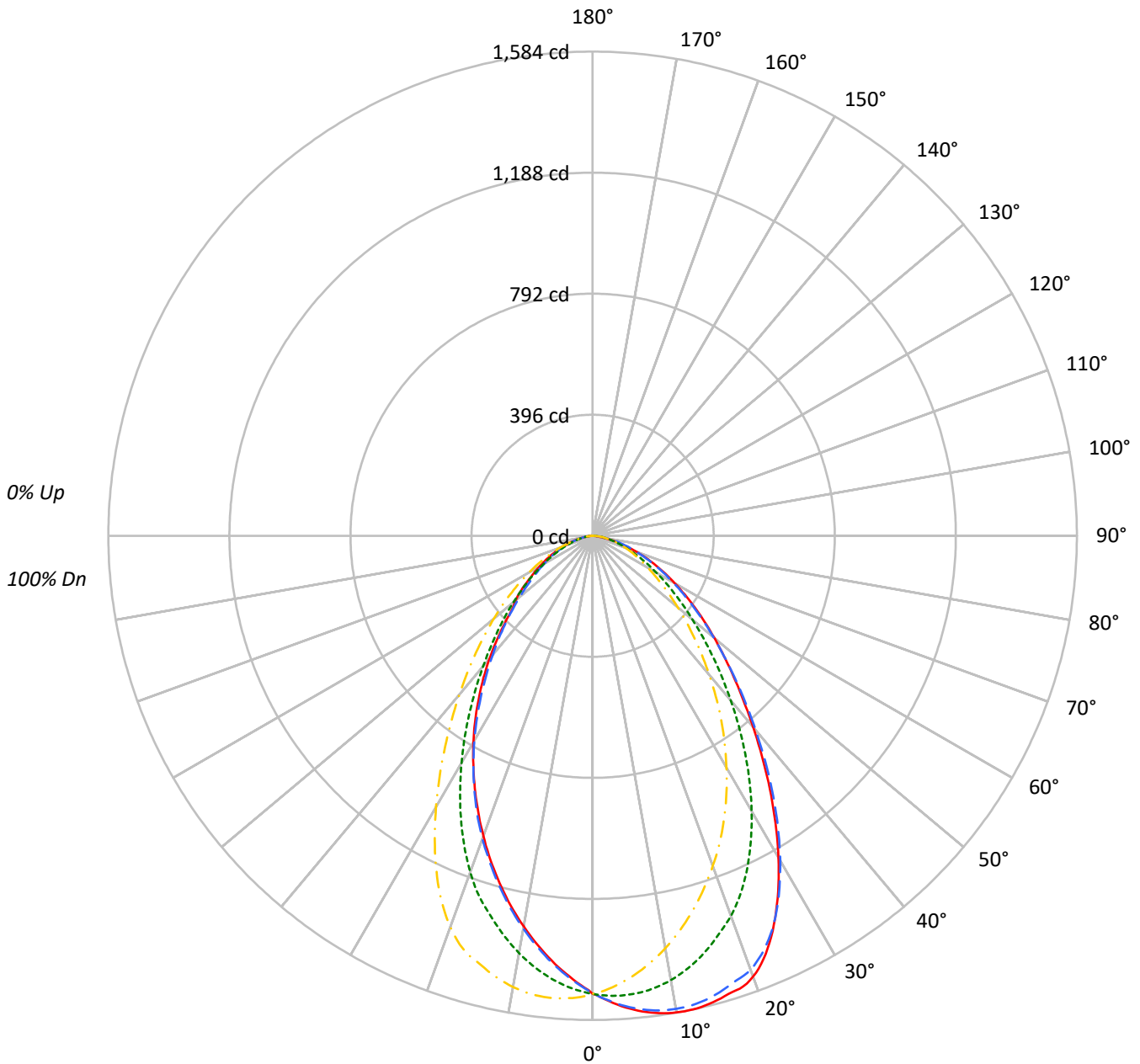
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68				
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	56	54				
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44				
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40				
9	63	51	44	39	62	51	44	39	50	43	38	49	43	38	48	42	38	36				
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	188523	188523	188523	188523
5°	196633	190140	177684	184266
10°	202383	188607	165873	177144
15°	205010	183982	153207	167813
20°	205564	177238	139926	156734
25°	194848	166257	126543	141554
30°	176606	151117	113334	124640
35°	155201	133677	99816	107483
40°	134090	115509	86069	91507
45°	116184	98440	72704	77866
50°	101633	83562	64199	66235
55°	89301	71068	57047	56060
60°	78128	60408	50290	46967
65°	67687	51309	44281	39070
70°	55268	43309	37422	32160
75°	41428	36712	30293	26695
80°	24859	32034	21525	21162
85°	9530	29746	7653	12418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 119263 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	5.6
10°-20°	383.0	15.4
20°-30°	518.8	20.9
30°-40°	504.3	20.3
40°-50°	399.2	16.0
50°-60°	279.5	11.2
60°-70°	169.5	6.8
70°-80°	77.7	3.1
80°-90°	15.8	0.6
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°	1041.8	41.9
0°-40°	1546.1	62.1
0°-60°	2224.8	89.4
0°-90°	2487.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2487.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1498	1498	1498	1498	1498	
5°	1556	1505	1406	1459	1556	149
15°	1574	1412	1176	1288	1574	444
25°	1403	1197	911	1019	1403	641
35°	1010	870	650	700	1010	630
45°	653	553	408	438	653	506
55°	407	324	260	256	407	366
65°	227	172	149	131	227	225
75°	85	76	62	55	85	92
85°	7	21	5	9	7	11
90°	0	2	0	0	0	



TEST NUMBER: P775963

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0
0.5°	1502.6	1503.4	1502.8	1502.1	1501.3	1498.5	1496.5	1495.7	1487.3	1487.1	1488.6
1°	1509.7	1510.7	1510.0	1506.9	1503.1	1497.3	1492.4	1489.1	1479.2	1479.2	1481.2
1.5°	1516.6	1517.8	1515.8	1511.0	1504.6	1496.0	1488.1	1482.8	1470.8	1470.3	1473.4
2°	1523.2	1525.0	1521.7	1515.3	1505.6	1493.9	1483.5	1475.6	1462.4	1461.4	1465.0
2.5°	1529.5	1531.8	1527.5	1519.1	1506.7	1491.9	1478.4	1468.8	1453.5	1452.5	1456.6
3°	1535.6	1537.9	1533.1	1522.4	1506.9	1489.1	1473.1	1460.9	1444.4	1443.4	1448.2
3.5°	1541.5	1544.0	1537.9	1525.5	1507.2	1486.3	1467.5	1453.5	1435.2	1433.7	1439.3
4°	1546.8	1549.6	1542.8	1528.0	1506.7	1483.0	1461.7	1445.4	1426.1	1424.0	1430.4
4.5°	1551.9	1555.0	1547.1	1530.3	1506.1	1479.7	1455.6	1437.0	1416.2	1414.1	1421.0
5°	1556.5	1560.3	1551.1	1532.3	1505.1	1475.6	1449.0	1428.6	1406.5	1404.0	1411.8
5.5°	1560.8	1565.1	1555.0	1533.9	1503.9	1471.6	1442.3	1420.0	1396.1	1393.5	1401.7
6°	1564.9	1569.4	1558.3	1535.4	1502.1	1466.7	1435.0	1410.8	1386.2	1382.9	1392.0
6.5°	1568.4	1573.5	1561.3	1536.4	1500.0	1462.2	1427.9	1401.7	1375.7	1372.4	1381.6
7°	1571.7	1577.1	1563.9	1536.9	1497.8	1456.8	1420.2	1392.5	1365.1	1361.5	1370.9
7.5°	1574.8	1580.4	1566.1	1536.9	1494.7	1451.5	1412.6	1382.9	1354.4	1350.3	1360.5
8°	1577.1	1583.2	1568.2	1536.9	1491.7	1445.6	1404.5	1372.9	1343.5	1338.9	1349.8
8.5°	1579.4	1585.7	1569.7	1536.4	1488.4	1439.8	1396.1	1362.8	1332.3	1328.0	1339.1
9°	1581.1	1588.0	1571.0	1535.4	1484.5	1433.2	1387.4	1352.9	1321.1	1316.3	1328.0
9.5°	1582.7	1589.8	1571.5	1533.9	1480.5	1426.6	1378.8	1342.4	1309.4	1304.6	1316.5
10°	1583.7	1591.1	1572.0	1532.1	1475.9	1419.5	1369.9	1332.3	1298.0	1292.9	1305.1
10.5°	1584.2	1592.1	1571.7	1530.0	1471.1	1412.3	1360.5	1321.3	1286.3	1280.9	1293.6
11°	1584.4	1592.6	1571.5	1527.8	1465.7	1404.7	1350.8	1310.4	1274.6	1269.0	1281.9
11.5°	1584.4	1592.8	1570.7	1524.7	1460.1	1397.1	1341.4	1299.5	1262.6	1256.8	1270.0
12°	1583.9	1592.8	1569.4	1521.7	1454.3	1389.0	1331.5	1288.6	1250.7	1244.6	1257.8
12.5°	1583.2	1592.3	1567.9	1518.1	1447.9	1380.3	1321.3	1277.1	1238.5	1231.9	1245.8
13°	1581.9	1591.3	1565.9	1514.3	1441.6	1371.9	1311.2	1265.7	1226.3	1219.7	1233.9
13.5°	1580.1	1590.3	1563.9	1510.0	1434.7	1363.3	1300.8	1254.0	1213.8	1207.0	1221.4
14°	1578.3	1588.3	1561.1	1504.9	1427.6	1353.9	1289.8	1242.3	1201.4	1194.0	1209.0
14.5°	1576.1	1586.2	1558.0	1499.8	1420.0	1344.5	1278.9	1230.3	1188.7	1181.5	1196.3
15°	1573.5	1583.9	1554.4	1494.5	1412.1	1334.6	1268.0	1218.4	1175.9	1168.3	1183.6
15.5°	1570.2	1580.9	1550.6	1488.9	1404.2	1324.9	1256.8	1206.2	1163.2	1155.6	1170.6
16°	1566.6	1577.8	1546.3	1482.8	1395.6	1314.7	1245.1	1194.0	1150.5	1142.6	1157.9
16.5°	1563.9	1574.3	1541.7	1476.4	1386.9	1304.6	1233.6	1181.5	1137.6	1129.7	1144.9
17°	1561.6	1571.0	1537.2	1469.8	1377.8	1293.9	1222.2	1169.3	1124.6	1115.9	1132.2
17.5°	1559.5	1568.7	1532.3	1462.4	1368.9	1283.2	1210.3	1156.6	1111.4	1102.7	1119.3
18°	1557.5	1566.6	1528.5	1455.8	1359.7	1272.3	1198.1	1143.9	1098.2	1089.5	1106.0
18.5°	1553.7	1564.4	1525.0	1449.2	1350.8	1261.6	1186.1	1131.2	1084.9	1076.3	1093.1
19°	1548.9	1561.1	1521.4	1443.1	1341.9	1250.7	1173.9	1118.5	1071.7	1063.1	1080.6
19.5°	1542.2	1556.0	1516.8	1436.8	1333.0	1240.0	1162.2	1105.8	1058.2	1049.9	1067.7
20°	1534.9	1549.9	1510.7	1429.6	1323.4	1228.6	1149.5	1093.1	1044.8	1036.4	1054.4
20.5°	1526.5	1542.5	1503.4	1421.2	1312.7	1217.4	1137.6	1079.9	1031.3	1022.9	1041.0
21°	1516.6	1534.4	1494.7	1412.6	1301.3	1204.9	1124.6	1066.6	1018.3	1009.7	1027.2



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CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1480.5	1503.4	1465.2	1380.1	1265.7	1167.0	1086.2	1027.2	977.9	969.5	986.3
23°	1466.2	1490.9	1454.0	1368.6	1252.5	1153.8	1072.7	1013.8	964.4	956.3	972.3
23.5°	1451.5	1477.9	1441.8	1356.4	1239.5	1140.6	1059.5	1000.5	951.5	942.8	958.1
24°	1436.2	1464.0	1429.4	1343.5	1225.8	1126.4	1045.8	987.3	938.0	929.6	944.1
24.5°	1420.0	1449.0	1415.7	1329.7	1211.8	1112.4	1032.1	973.6	924.5	916.1	930.1
25°	1403.2	1433.2	1401.4	1315.8	1197.3	1098.2	1017.8	960.1	911.3	902.9	916.1
25.5°	1386.2	1416.7	1386.2	1301.5	1182.8	1083.7	1004.1	946.6	898.1	889.2	901.7
26°	1368.6	1399.9	1370.7	1286.5	1168.1	1069.2	990.4	933.2	885.1	875.5	887.4
26.5°	1350.3	1382.9	1354.6	1271.5	1152.8	1054.2	976.1	919.5	871.7	862.3	873.2
27°	1332.3	1364.8	1337.9	1255.8	1137.0	1039.2	961.9	905.7	858.7	848.8	859.0
27.5°	1313.7	1346.5	1320.6	1239.7	1121.5	1024.4	947.4	892.3	845.2	835.3	844.5
28°	1294.1	1327.4	1302.3	1223.0	1105.5	1009.7	933.2	878.8	832.3	821.8	830.0
28.5°	1274.8	1308.1	1283.5	1206.2	1089.8	994.2	918.9	864.8	819.3	808.4	815.7
29°	1255.3	1288.8	1265.2	1189.2	1073.2	978.7	904.5	851.1	806.3	794.9	801.5
29.5°	1235.2	1269.2	1246.6	1171.4	1056.7	963.7	890.2	837.6	793.1	781.7	787.3
30°	1215.3	1248.9	1227.3	1154.1	1039.9	948.2	875.5	824.1	779.9	768.2	772.8
30.5°	1195.0	1228.8	1207.5	1136.0	1023.2	932.4	861.0	810.4	766.7	755.0	758.8
31°	1174.4	1208.2	1187.6	1117.5	1006.9	917.2	846.7	796.7	753.7	741.5	744.8
31.5°	1154.3	1187.4	1167.8	1099.2	989.6	901.4	832.3	783.2	740.7	728.0	731.1
32°	1133.5	1166.3	1147.5	1080.1	972.6	886.1	818.0	769.7	727.8	715.1	717.1
32.5°	1112.6	1145.2	1127.1	1061.3	955.5	870.6	803.3	756.3	714.6	701.9	702.9
33°	1092.1	1124.3	1107.1	1042.5	938.3	854.9	789.0	743.0	701.6	688.6	688.9
33.5°	1071.2	1103.5	1087.5	1023.4	921.5	839.4	774.8	729.1	688.6	675.4	675.7
34°	1050.9	1082.4	1066.9	1004.1	904.2	823.4	760.6	715.8	675.7	662.2	661.7
34.5°	1030.5	1061.0	1046.3	985.0	886.9	807.9	746.3	702.6	662.5	649.2	648.2
35°	1010.2	1040.2	1025.7	966.0	870.1	792.6	731.8	689.4	649.7	636.5	634.5
35.5°	989.9	1019.6	1005.4	947.2	852.8	777.1	718.1	675.9	637.0	623.8	621.5
36°	969.3	999.0	985.3	928.3	835.8	761.6	704.1	663.0	624.1	611.1	608.3
36.5°	949.7	978.7	965.2	909.3	818.5	746.1	689.9	650.0	611.4	598.4	595.3
37°	929.6	957.8	945.1	891.0	802.3	731.3	675.7	637.0	598.4	585.7	582.4
37.5°	910.3	937.5	925.6	872.4	785.0	715.8	661.7	624.1	586.2	573.5	569.7
38°	890.7	917.7	905.2	853.4	768.7	700.8	648.2	611.6	573.5	561.0	557.0
38.5°	871.9	897.8	885.9	835.6	752.2	685.8	634.0	598.6	561.0	548.6	545.0
39°	853.1	878.3	866.3	817.0	735.9	671.3	620.3	586.2	548.8	536.4	532.6
39.5°	834.8	859.2	848.0	799.7	719.1	656.4	606.5	573.5	536.4	524.4	520.4
40°	816.2	840.4	829.0	781.2	703.1	641.6	593.3	561.0	523.9	512.2	508.4
40.5°	798.7	822.1	810.4	764.4	687.4	626.6	579.8	548.1	512.0	500.3	497.0
41°	781.2	803.3	792.1	746.8	671.3	612.9	566.9	535.9	500.0	488.6	485.3
41.5°	763.6	786.0	774.3	729.6	655.6	598.1	553.9	523.4	488.1	476.9	474.1
42°	746.8	768.2	756.5	712.3	640.6	584.2	541.2	511.7	476.1	465.7	463.4
42.5°	730.6	750.9	739.5	696.5	625.6	570.7	528.5	499.5	464.7	454.8	452.7
43°	714.3	734.4	722.7	680.2	610.6	557.2	516.3	487.8	453.0	443.8	441.8
43.5°	698.5	717.9	705.7	664.2	595.9	543.7	503.8	475.9	441.5	433.4	431.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	652.8	670.1	657.6	617.5	553.1	505.4	468.2	442.6	408.5	403.7	400.9
45.5°	638.0	655.1	642.1	602.5	539.4	492.9	457.1	432.1	397.8	394.3	391.2
46°	623.8	640.3	627.1	588.0	525.9	481.0	445.9	421.7	387.7	384.6	381.6
46.5°	609.8	625.6	612.1	573.5	512.7	468.7	435.2	411.3	377.7	375.2	371.9
47°	596.1	611.1	597.9	559.2	499.5	456.8	424.3	401.1	368.3	366.3	362.5
47.5°	582.9	597.1	583.4	545.5	486.8	445.4	413.6	391.2	359.4	357.7	353.3
48°	569.4	583.1	569.2	531.3	474.1	433.7	403.2	381.6	351.6	349.0	344.7
48.5°	556.2	569.9	555.7	518.3	461.9	422.7	392.7	371.9	344.7	340.6	335.8
49°	543.7	556.7	542.2	505.4	449.9	411.8	382.8	362.7	338.6	332.5	327.4
49.5°	531.3	543.7	529.2	492.6	438.2	401.1	372.7	353.6	333.0	324.9	319.0
50°	519.1	531.3	516.5	479.9	426.8	390.7	363.0	344.7	327.9	317.8	310.9
50.5°	507.1	518.6	503.6	467.5	415.4	380.3	353.6	336.1	322.8	310.6	302.5
51°	495.2	506.4	491.1	455.5	404.2	370.4	344.2	327.7	317.0	304.3	294.9
51.5°	483.5	494.4	479.2	443.8	393.8	360.7	335.3	319.5	310.1	298.4	287.5
52°	472.1	482.5	467.2	431.9	383.1	351.1	326.1	311.7	302.5	291.6	279.9
52.5°	460.9	470.8	455.5	420.7	372.7	341.6	317.5	304.0	295.1	284.7	272.5
53°	449.9	459.6	443.8	409.8	362.5	332.2	308.9	296.9	288.0	277.8	265.4
53.5°	438.8	448.2	432.7	398.6	352.6	323.1	300.5	289.5	280.6	271.0	258.3
54°	428.1	437.2	421.5	387.9	342.9	314.2	292.3	282.9	273.5	264.4	251.4
54.5°	417.4	426.0	410.3	377.5	333.0	305.6	284.2	276.8	266.9	257.8	244.8
55°	407.0	415.6	400.1	367.1	323.9	297.2	276.6	270.5	260.0	251.7	238.4
55.5°	396.6	404.9	389.4	357.2	314.7	288.5	268.9	264.1	253.7	244.8	232.1
56°	386.4	394.5	379.0	347.0	305.8	280.1	261.3	257.5	247.1	238.4	226.0
56.5°	376.5	384.4	368.8	337.3	297.2	272.3	253.9	251.2	240.7	232.6	220.4
57°	366.8	374.4	358.9	327.9	288.3	264.1	246.8	244.8	234.4	226.7	214.8
57.5°	356.6	364.3	349.3	318.5	279.9	256.5	240.0	238.7	228.5	220.6	209.5
58°	347.2	354.4	339.4	309.4	271.5	248.9	233.4	232.6	222.4	215.1	203.9
58.5°	337.8	344.7	330.0	300.2	263.9	241.5	226.7	226.5	216.8	209.5	198.5
59°	328.4	335.5	320.8	291.3	255.7	234.1	220.4	220.6	211.0	203.9	192.9
59.5°	319.3	325.6	311.4	282.7	247.8	227.0	214.5	215.1	205.4	198.3	187.9
60°	310.4	317.0	302.5	274.3	240.0	220.1	208.7	209.5	199.8	192.7	182.8
60.5°	301.5	307.8	293.6	265.6	232.8	213.8	202.9	203.9	194.2	187.3	177.7
61°	292.6	298.9	285.0	257.8	225.5	207.2	197.0	198.3	188.9	182.3	172.6
61.5°	283.9	289.8	276.1	249.6	218.6	200.6	191.2	192.7	183.5	176.9	167.8
62°	275.6	281.7	267.9	241.7	211.8	194.0	186.1	187.3	178.5	171.8	162.9
62.5°	267.4	273.0	259.8	234.1	204.9	187.6	180.7	182.3	173.1	166.8	158.1
63°	259.0	264.6	251.4	226.5	198.0	181.5	175.7	176.9	168.3	162.2	153.3
63.5°	250.9	256.2	243.5	219.1	191.2	175.7	170.6	171.8	163.2	157.1	148.7
64°	243.0	248.1	235.6	211.8	184.6	169.8	166.0	166.8	158.4	152.5	144.1
64.5°	235.1	240.2	228.0	204.6	178.5	164.2	161.2	161.9	153.5	147.7	139.8
65°	227.3	232.6	220.4	197.5	172.3	158.6	156.6	157.4	148.7	143.1	135.2
65.5°	219.4	224.5	212.8	190.9	166.2	153.3	151.8	152.5	143.6	138.5	130.9
66°	211.2	217.1	205.6	184.3	160.4	147.9	147.4	147.7	138.8	134.0	126.8



TEST NUMBER: P775963

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	187.9	194.5	184.3	164.7	143.6	133.2	134.0	134.0	124.3	120.5	114.4
68°	180.2	187.1	177.4	158.6	138.3	128.4	129.9	129.4	119.7	116.2	110.3
68.5°	172.3	179.7	170.8	152.8	132.9	123.8	125.6	124.8	115.2	111.6	106.5
69°	165.0	172.3	164.5	146.7	127.9	119.2	121.5	120.5	110.6	107.5	102.7
69.5°	157.6	165.2	158.1	141.1	122.8	115.2	117.2	115.9	106.0	103.2	98.9
70°	150.2	158.1	151.8	135.2	117.7	110.8	113.4	111.6	101.7	99.1	95.1
70.5°	143.4	151.3	145.7	129.6	112.9	106.8	109.3	107.5	97.6	95.1	91.5
71°	136.3	144.6	139.6	124.3	108.3	103.0	105.5	103.2	93.3	90.8	87.7
71.5°	129.4	137.8	133.7	119.0	103.7	99.1	101.7	99.1	89.2	86.9	84.1
72°	122.5	131.4	128.1	113.9	99.4	95.3	97.9	95.1	85.2	83.1	80.6
72.5°	116.2	125.3	122.3	109.1	95.1	91.8	94.3	91.0	81.1	79.1	77.0
73°	109.8	119.0	116.7	104.2	91.0	88.0	90.5	87.2	77.0	75.5	73.7
73.5°	103.2	113.1	111.3	99.1	86.9	84.6	86.9	83.1	73.2	71.7	70.4
74°	97.1	107.0	105.7	94.6	83.1	81.3	83.4	79.6	69.4	67.9	67.1
74.5°	90.8	101.2	100.7	91.3	79.3	78.0	80.1	75.8	65.8	64.3	63.6
75°	85.2	95.6	95.6	86.9	75.5	74.7	76.5	72.2	62.3	60.8	60.5
75.5°	79.6	90.0	90.2	82.6	71.9	71.7	73.2	68.6	58.7	57.4	57.2
76°	74.0	85.2	85.7	78.0	68.6	68.6	69.9	65.1	55.2	53.9	54.1
76.5°	68.4	80.1	81.1	73.7	65.1	65.6	66.6	61.5	51.6	50.6	51.1
77°	63.0	75.0	76.8	69.7	62.0	62.5	63.3	58.2	48.3	47.3	48.0
77.5°	57.7	69.9	72.2	65.8	58.7	59.7	60.0	54.9	45.0	44.2	45.2
78°	52.6	65.1	67.6	62.3	55.7	56.9	57.2	51.6	41.9	40.9	42.5
78.5°	47.8	60.8	63.3	58.7	52.6	53.9	53.9	48.3	38.6	37.9	39.4
79°	43.0	56.2	59.2	55.2	49.6	51.1	51.1	45.0	35.6	34.8	36.6
79.5°	38.6	51.9	55.2	51.6	46.8	48.6	48.0	41.9	32.5	32.0	34.1
80°	34.3	47.5	51.1	48.3	44.2	45.8	45.2	38.9	29.7	29.0	31.3
80.5°	30.5	43.7	47.3	45.2	41.4	43.2	42.5	36.1	26.7	26.2	28.7
81°	26.7	39.9	43.7	42.2	38.9	40.7	39.7	33.0	24.1	23.6	26.2
81.5°	23.1	36.4	40.2	39.1	36.4	38.1	36.9	30.3	21.4	21.1	23.9
82°	19.6	32.8	36.6	36.4	33.8	35.6	34.3	27.5	18.8	18.6	21.6
82.5°	16.3	29.2	33.3	33.6	31.5	33.0	31.5	24.9	16.0	16.0	19.3
83°	13.5	25.9	30.3	30.8	29.2	30.8	29.0	22.4	13.2	13.5	17.0
83.5°	10.9	22.9	27.2	28.2	26.9	28.5	26.7	19.8	10.9	11.4	14.7
84°	8.9	19.6	24.4	25.7	24.7	25.9	24.4	17.3	8.6	9.7	12.7
84.5°	7.6	16.8	21.6	23.4	22.6	23.9	22.1	14.7	6.6	8.1	10.9
85°	6.6	14.0	19.1	21.1	20.6	21.6	20.1	12.7	5.3	6.9	8.9
85.5°	5.3	11.4	16.8	18.8	18.6	19.6	17.8	10.9	4.6	5.6	7.1
86°	4.3	9.2	14.5	16.8	16.5	17.3	15.5	9.4	3.8	4.6	5.1
86.5°	3.6	7.6	12.5	14.5	14.5	15.0	13.5	8.1	3.1	3.3	3.6
87°	3.1	6.1	10.4	12.7	12.7	13.0	11.4	6.6	2.3	2.3	2.0
87.5°	2.3	4.6	8.9	10.9	10.9	10.9	9.4	5.3	1.5	1.3	0.8
88°	1.8	3.1	7.4	9.2	8.9	9.2	7.6	4.1	1.0	0.5	0.3
88.5°	1.3	2.0	5.6	7.4	7.1	7.1	5.8	2.8	0.3	0.3	0.0



TEST NUMBER: P775963

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.5	1.5	2.8	2.3	2.0	1.0	0.3	0.0	0.3	0.0



TEST NUMBER: P775963

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0
0.5°	1491.2	1496.7	1499.5	1503.6	1507.4	1502.6
1°	1485.6	1493.7	1499.8	1506.4	1512.8	1509.7
1.5°	1479.5	1490.4	1499.5	1509.2	1517.8	1516.6
2°	1473.4	1487.1	1498.8	1511.5	1522.7	1523.2
2.5°	1466.7	1483.0	1498.0	1513.5	1527.2	1529.5
3°	1459.9	1478.9	1496.5	1515.0	1531.3	1535.6
3.5°	1452.5	1474.4	1495.0	1516.6	1535.1	1541.5
4°	1445.1	1469.5	1492.7	1517.3	1538.2	1546.8
4.5°	1437.5	1464.2	1490.4	1517.8	1541.2	1551.9
5°	1429.4	1458.6	1487.6	1518.1	1544.3	1556.5
5.5°	1421.0	1453.0	1484.3	1517.8	1546.6	1560.8
6°	1412.6	1446.7	1481.0	1517.3	1548.3	1564.9
6.5°	1404.0	1440.1	1477.2	1516.3	1549.9	1568.4
7°	1394.6	1433.2	1472.8	1514.8	1551.1	1571.7
7.5°	1385.4	1426.1	1468.3	1513.0	1552.2	1574.8
8°	1376.0	1419.0	1463.4	1511.0	1552.4	1577.1
8.5°	1366.1	1411.1	1458.1	1508.7	1552.4	1579.4
9°	1356.2	1402.9	1452.5	1505.9	1552.2	1581.1
9.5°	1345.7	1394.6	1446.7	1502.6	1551.7	1582.7
10°	1335.3	1386.2	1440.6	1499.0	1550.6	1583.7
10.5°	1324.6	1377.3	1434.2	1495.2	1549.4	1584.2
11°	1314.0	1368.4	1427.1	1490.9	1547.6	1584.4
11.5°	1303.0	1359.0	1419.7	1486.3	1545.3	1584.4
12°	1291.9	1349.1	1412.6	1481.5	1542.8	1583.9
12.5°	1280.7	1339.4	1405.0	1476.2	1540.0	1583.2
13°	1269.2	1329.5	1396.8	1470.6	1536.9	1581.9
13.5°	1257.3	1319.3	1388.5	1465.0	1533.3	1580.1
14°	1245.3	1308.6	1379.8	1458.4	1529.3	1578.3
14.5°	1233.4	1298.5	1371.7	1452.0	1525.5	1576.1
15°	1222.0	1288.0	1363.0	1445.9	1520.6	1573.5
15.5°	1210.0	1277.9	1355.2	1440.6	1516.8	1570.2
16°	1198.3	1267.5	1347.3	1435.7	1513.8	1566.6
16.5°	1186.4	1257.3	1339.4	1430.1	1510.7	1563.9
17°	1174.4	1246.9	1330.2	1423.5	1507.2	1561.6
17.5°	1162.2	1235.7	1319.8	1415.1	1502.3	1559.5
18°	1150.0	1223.7	1308.6	1406.2	1495.5	1557.5
18.5°	1137.3	1211.3	1296.7	1396.1	1487.3	1553.7
19°	1124.1	1197.8	1284.2	1385.4	1478.2	1548.9
19.5°	1110.6	1184.3	1271.5	1373.7	1468.8	1542.2
20°	1096.9	1170.3	1258.6	1361.5	1457.9	1534.9
20.5°	1082.6	1156.6	1244.6	1348.8	1446.7	1526.5
21°	1068.7	1141.9	1230.3	1335.1	1434.2	1516.6

TEST NUMBER: P775963

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1024.9	1097.4	1186.4	1291.6	1392.5	1480.5
23°	1010.2	1082.1	1170.9	1276.4	1377.0	1466.2
23.5°	994.9	1066.6	1154.8	1260.1	1361.0	1451.5
24°	980.0	1050.9	1139.1	1243.8	1344.0	1436.2
24.5°	964.7	1035.1	1122.6	1226.5	1326.9	1420.0
25°	949.7	1019.4	1106.0	1209.2	1308.9	1403.2
25.5°	934.4	1003.6	1089.0	1191.7	1291.1	1386.2
26°	919.2	987.6	1072.0	1173.7	1272.5	1368.6
26.5°	904.2	971.3	1055.4	1155.6	1254.2	1350.3
27°	888.9	955.0	1037.9	1137.0	1235.4	1332.3
27.5°	873.7	938.8	1020.6	1118.5	1215.9	1313.7
28°	858.4	922.5	1002.6	1099.4	1196.3	1294.1
28.5°	843.4	906.0	985.3	1080.6	1177.2	1274.8
29°	828.2	890.2	968.0	1061.8	1157.9	1255.3
29.5°	812.9	873.9	950.2	1042.5	1138.1	1235.2
30°	797.9	857.7	932.4	1024.4	1118.2	1215.3
30.5°	782.9	841.4	914.6	1005.4	1098.4	1195.0
31°	767.9	825.6	897.1	986.3	1079.1	1174.4
31.5°	753.2	809.4	879.8	967.7	1059.5	1154.3
32°	737.9	793.4	862.3	949.2	1039.4	1133.5
32.5°	723.7	777.6	845.0	930.4	1019.9	1112.6
33°	709.0	761.6	827.7	912.8	1000.3	1092.1
33.5°	694.2	745.8	810.9	894.5	980.7	1071.2
34°	680.0	730.3	793.9	876.5	962.2	1050.9
34.5°	665.8	714.8	777.4	858.7	942.6	1030.5
35°	651.5	699.6	760.8	841.2	923.8	1010.2
35.5°	637.5	684.1	744.3	823.6	905.0	989.9
36°	623.8	669.6	728.8	807.1	886.7	969.3
36.5°	610.1	654.6	712.8	789.3	868.6	949.7
37°	596.4	640.1	697.8	773.0	850.1	929.6
37.5°	583.4	625.3	682.0	756.5	832.3	910.3
38°	570.2	611.4	667.0	740.5	814.5	890.7
38.5°	557.5	597.4	652.0	724.0	796.9	871.9
39°	545.0	583.6	637.5	708.7	780.4	853.1
39.5°	532.0	569.9	623.3	693.2	763.4	834.8
40°	519.6	557.0	608.8	678.0	746.6	816.2
40.5°	507.6	543.7	595.1	662.5	730.3	798.7
41°	495.7	531.3	581.4	648.0	714.3	781.2
41.5°	483.7	518.6	568.1	633.2	698.5	763.6
42°	472.6	506.4	554.9	619.2	683.0	746.8
42.5°	461.1	494.2	541.7	605.3	667.8	730.6
43°	450.2	482.7	529.0	591.5	652.8	714.3
43.5°	439.3	470.8	516.3	577.8	638.3	698.5



TEST NUMBER: P775963

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	408.2	437.5	479.9	538.7	596.1	652.8
45.5°	398.3	426.6	468.5	525.9	582.6	638.0
46°	388.4	416.1	456.8	513.5	569.4	623.8
46.5°	378.8	405.7	445.9	501.3	556.2	609.8
47°	369.1	395.5	434.4	489.1	543.5	596.1
47.5°	360.0	385.6	423.8	477.4	530.8	582.9
48°	350.8	376.0	413.1	465.7	518.6	569.4
48.5°	341.9	366.3	402.4	454.3	506.4	556.2
49°	332.8	356.9	392.2	443.3	494.7	543.7
49.5°	324.1	347.5	382.1	432.4	483.0	531.3
50°	315.7	338.3	371.9	421.2	471.3	519.1
50.5°	307.3	329.4	362.2	410.5	460.1	507.1
51°	299.2	320.5	352.6	400.4	448.9	495.2
51.5°	291.1	311.7	343.2	389.9	438.2	483.5
52°	282.9	303.5	333.8	380.0	427.1	472.1
52.5°	275.0	295.1	324.9	370.1	416.6	460.9
53°	267.4	287.0	315.7	360.2	406.2	449.9
53.5°	259.8	278.9	307.1	350.8	395.8	438.8
54°	252.4	270.7	298.4	341.1	385.6	428.1
54.5°	245.3	263.1	290.0	331.7	376.0	417.4
55°	238.2	255.5	281.7	322.6	365.8	407.0
55.5°	231.1	248.1	273.5	313.7	356.4	396.6
56°	224.5	240.7	265.1	304.8	346.7	386.4
56.5°	218.1	233.6	257.5	296.1	337.3	376.5
57°	211.8	226.2	249.6	287.5	327.9	366.8
57.5°	205.4	219.6	242.0	279.1	318.8	356.6
58°	199.0	212.5	234.6	270.7	309.6	347.2
58.5°	192.7	205.9	227.5	262.8	301.0	337.8
59°	186.8	199.3	220.1	254.7	292.1	328.4
59.5°	181.0	192.9	213.3	246.8	283.7	319.3
60°	175.7	186.6	206.2	239.2	275.0	310.4
60.5°	170.1	180.5	199.5	231.6	266.9	301.5
61°	164.7	174.6	192.7	224.2	258.3	292.6
61.5°	159.4	168.5	186.3	216.8	250.6	283.9
62°	154.3	162.7	180.0	209.5	242.8	275.6
62.5°	149.2	157.1	173.6	202.6	234.9	267.4
63°	144.4	151.8	167.5	195.5	227.0	259.0
63.5°	139.6	146.4	161.7	188.9	219.6	250.9
64°	135.0	141.1	155.6	182.0	212.3	243.0
64.5°	130.7	136.0	150.0	175.4	204.9	235.1
65°	126.3	131.2	144.4	169.0	197.8	227.3
65.5°	122.3	126.1	139.0	162.7	190.9	219.4
66°	118.2	121.3	133.5	156.3	184.0	211.2



TEST NUMBER: P775963

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	106.5	107.8	117.9	138.5	163.2	187.9
68°	103.0	103.5	113.1	132.9	156.6	180.2
68.5°	99.1	99.4	108.5	127.4	150.0	172.3
69°	95.6	95.3	104.0	121.8	143.4	165.0
69.5°	92.0	91.0	99.1	116.7	137.0	157.6
70°	88.5	87.4	94.8	111.6	130.9	150.2
70.5°	85.2	84.1	90.8	106.5	124.8	143.4
71°	81.9	80.6	86.9	101.4	118.7	136.3
71.5°	78.3	77.0	82.9	96.6	112.9	129.4
72°	75.2	73.7	78.8	92.0	107.0	122.5
72.5°	72.2	70.4	74.7	87.4	101.4	116.2
73°	68.6	67.1	71.2	83.1	96.1	109.8
73.5°	65.6	64.1	67.4	78.5	90.2	103.2
74°	62.5	61.0	63.8	74.2	85.4	97.1
74.5°	59.7	58.0	60.5	69.9	80.6	90.8
75°	56.7	54.9	57.2	65.8	75.8	85.2
75.5°	53.9	52.1	53.9	61.8	70.9	79.6
76°	51.1	49.3	50.8	57.7	66.3	74.0
76.5°	48.3	46.5	47.5	54.1	61.8	68.4
77°	45.5	44.0	44.7	50.3	57.4	63.0
77.5°	43.0	41.4	41.7	46.8	53.1	57.7
78°	40.2	38.9	38.9	43.5	49.1	52.6
78.5°	37.6	36.4	36.4	39.9	45.0	47.8
79°	35.1	34.1	33.8	36.9	41.2	43.0
79.5°	32.5	31.5	31.0	33.6	37.4	38.6
80°	30.0	29.2	28.7	30.8	33.8	34.3
80.5°	27.7	27.2	26.2	28.0	30.3	30.5
81°	25.4	24.9	24.1	25.2	26.9	26.7
81.5°	23.1	22.6	21.9	22.4	23.6	23.1
82°	20.8	20.6	19.6	20.1	20.6	19.6
82.5°	18.6	18.6	17.5	17.8	17.5	16.3
83°	16.5	16.5	15.5	15.5	14.7	13.5
83.5°	14.2	14.2	13.5	13.5	12.5	10.9
84°	12.2	12.5	11.7	11.4	10.2	8.9
84.5°	10.2	10.4	9.9	9.7	8.6	7.6
85°	8.1	8.6	8.4	8.1	6.9	6.6
85.5°	6.1	7.1	6.6	6.6	5.3	5.3
86°	4.3	5.3	5.1	5.1	3.8	4.3
86.5°	2.5	3.6	3.3	3.6	2.8	3.6
87°	1.3	1.8	2.0	2.5	2.0	3.1
87.5°	0.3	0.5	0.8	1.3	1.3	2.3
88°	0.0	0.0	0.0	0.3	0.8	1.8
88.5°	0.0	0.0	0.0	0.0	0.3	1.3



TEST NUMBER: P775963

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-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



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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	1505.1	1525.0	1485.8	1402.4	1289.8	1192.5	1112.1	1053.7	1004.9	996.0	1014.0
22°	1492.9	1514.8	1475.9	1391.5	1277.9	1180.0	1099.2	1040.5	991.4	982.7	1000.0



44°	682.8	701.3	689.1	647.5	581.6	530.8	491.9	464.7	430.4	423.5	421.2
44.5°	667.5	685.6	673.6	632.7	567.4	517.8	479.9	453.2	419.7	413.8	411.0



66.5°	203.4	209.7	198.3	177.4	154.6	142.9	142.9	143.4	134.0	129.4	122.5
67°	195.5	201.8	191.4	171.1	149.0	138.0	138.3	138.5	129.1	125.1	118.5



89°	0.8	1.5	4.1	5.8	5.3	5.3	4.1	1.8	0.0	0.3	0.0
89.5°	0.3	1.0	2.5	4.3	3.8	3.6	2.3	0.8	0.0	0.3	0.0

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21.5°	1054.4	1127.1	1216.1	1321.3	1421.2	1505.1
22°	1039.9	1112.6	1201.4	1306.9	1407.0	1492.9



44°	428.8	459.3	504.1	564.3	623.8	682.8
44.5°	418.4	448.2	492.1	551.4	609.8	667.5



66.5°	114.1	116.7	128.1	150.2	176.9	203.4
67°	110.3	112.1	123.0	144.4	170.1	195.5

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89°	0.0	0.0	0.0	0.0	0.3	0.8
89.5°	0.0	0.0	0.0	0.0	0.0	0.3

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Scaled Data Report



(END OF REPORT)