

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: P775925

Luminaire Tested: HCDJBS1525CSD-HCD41TRC-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B028)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBLS1525CSD-HCD41TRC-2500lm-2700K
Description: 4 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

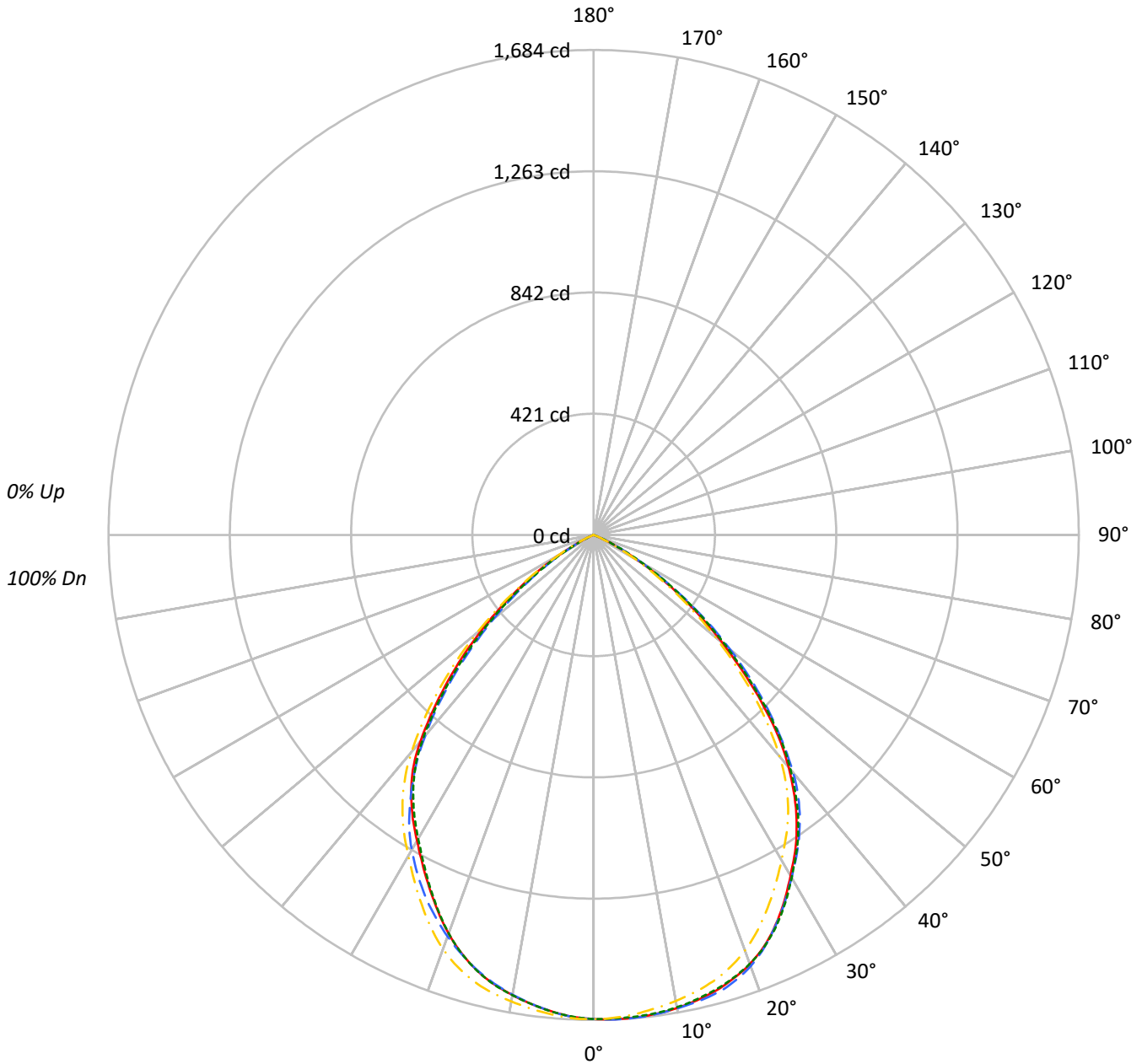
Lumens per Lamp: N/A
Luminaire Lumens: 2931.5 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.22
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91	91	91	91	91	91		
	2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81	81	81	81	81	81		
	3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72	72	72		
	4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64	64	64		
	5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58	58	58		
	6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52	52	52		
	7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47	47	47		
	8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43	43	43	43	43	43		
	9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39	39	39	39	39		
	10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36	36	36	36	36	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	211579	211579	211579	211579
5°	212488	212109	209911	209936
10°	213207	212836	207354	207443
15°	213453	212984	203981	204072
20°	212341	212274	197274	197086
25°	207443	208179	187516	186905
30°	198564	199799	178204	177042
35°	188709	190230	169674	167738
40°	172959	174783	153574	151307
45°	147348	149893	127023	123659
50°	114359	117394	96758	92568
55°	80239	83486	64771	60295
60°	46237	49409	33426	29524
65°	16080	18254	9082	7206
70°	552	1177	552	442
75°	486	583	486	486
80°	362	507	362	362
85°	0	289	0	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 151922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	5.4
10°-20°	451.2	15.4
20°-30°	654.7	22.3
30°-40°	726.1	24.8
40°-50°	589.6	20.1
50°-60°	296.0	10.1
60°-70°	53.8	1.8
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°	1264.6	43.1
0°-40°	1990.7	67.9
0°-60°	2876.3	98.1
0°-90°	2931.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2931.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1681	1681	1681	1681	1681	
5°	1682	1679	1662	1662	1682	160
15°	1638	1635	1566	1566	1638	462
25°	1494	1499	1350	1346	1494	686
35°	1228	1238	1104	1092	1228	763
45°	828	842	714	695	828	633
55°	366	380	295	275	366	330
65°	54	61	30	24	54	64
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	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°	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2
0.5°	1682.0	1682.0	1682.2	1682.7	1680.7	1681.2	1681.5	1681.5	1680.3	1680.0	1680.5
1°	1682.7	1682.7	1682.9	1683.2	1681.2	1681.0	1681.0	1681.0	1679.3	1678.8	1679.5
1.5°	1683.2	1683.2	1683.6	1683.6	1681.5	1680.7	1680.3	1679.5	1678.1	1677.6	1678.3
2°	1683.4	1683.6	1683.9	1683.9	1681.2	1680.3	1679.3	1677.8	1676.6	1675.9	1676.6
2.5°	1683.4	1684.1	1684.4	1683.9	1681.0	1679.8	1678.3	1676.4	1674.9	1674.2	1674.9
3°	1683.4	1684.1	1684.4	1683.9	1680.7	1679.0	1677.1	1674.4	1672.7	1672.0	1673.0
3.5°	1683.4	1684.1	1684.4	1683.6	1680.7	1678.1	1675.4	1672.3	1670.1	1669.3	1670.6
4°	1682.9	1683.9	1684.1	1683.6	1680.0	1677.3	1673.7	1670.1	1667.4	1666.9	1667.9
4.5°	1682.4	1683.6	1683.9	1683.2	1679.5	1676.1	1672.0	1667.7	1664.5	1663.8	1664.7
5°	1682.0	1682.9	1683.2	1682.7	1679.0	1675.2	1669.8	1664.7	1661.6	1660.6	1661.6
5.5°	1681.0	1682.4	1682.4	1681.7	1678.3	1673.7	1667.7	1661.8	1658.0	1657.2	1658.2
6°	1680.0	1681.5	1681.5	1681.0	1677.6	1672.3	1665.2	1658.7	1654.6	1653.8	1654.6
6.5°	1679.3	1680.5	1680.3	1679.8	1676.6	1670.8	1662.8	1655.5	1651.2	1650.2	1650.9
7°	1678.1	1679.3	1679.3	1678.6	1675.6	1668.9	1660.1	1652.1	1647.3	1646.3	1647.1
7.5°	1677.1	1677.8	1677.8	1677.3	1674.2	1667.2	1657.5	1648.7	1643.4	1642.4	1642.7
8°	1675.6	1676.1	1676.4	1675.9	1673.0	1665.2	1654.8	1645.4	1639.5	1638.3	1638.8
8.5°	1674.0	1674.4	1674.7	1674.2	1671.5	1663.0	1652.1	1642.0	1635.4	1634.2	1634.2
9°	1672.3	1672.7	1673.0	1672.3	1669.6	1660.9	1649.2	1638.1	1631.5	1630.1	1629.8
9.5°	1670.3	1670.6	1671.3	1670.1	1667.7	1658.7	1646.1	1634.4	1627.2	1625.7	1625.5
10°	1668.4	1668.4	1669.6	1667.9	1665.5	1656.0	1643.2	1630.6	1622.6	1621.6	1620.9
10.5°	1666.0	1666.2	1667.9	1666.0	1663.3	1653.1	1639.8	1626.7	1618.2	1617.5	1616.3
11°	1663.5	1663.8	1666.2	1663.5	1660.6	1650.0	1636.4	1622.6	1613.4	1612.9	1611.2
11.5°	1660.9	1661.1	1664.0	1660.9	1657.7	1646.6	1633.0	1618.5	1608.5	1608.3	1606.1
12°	1658.4	1658.7	1662.3	1658.2	1654.8	1643.4	1629.4	1614.3	1603.2	1603.4	1601.0
12.5°	1655.5	1656.0	1660.1	1655.0	1651.9	1639.8	1625.7	1610.0	1597.9	1598.6	1595.7
13°	1652.6	1653.4	1658.2	1651.9	1648.7	1636.1	1622.1	1605.6	1592.3	1593.2	1589.9
13.5°	1649.2	1650.2	1655.8	1648.5	1645.4	1632.0	1618.0	1601.0	1586.2	1587.9	1583.8
14°	1645.8	1646.8	1653.4	1645.1	1642.0	1628.1	1613.6	1595.9	1579.9	1582.3	1577.3
14.5°	1642.4	1643.2	1650.4	1641.5	1638.3	1623.8	1609.0	1590.3	1573.1	1576.0	1570.7
15°	1638.3	1639.5	1647.5	1637.4	1634.7	1619.2	1604.2	1584.8	1565.6	1569.7	1563.9
15.5°	1634.2	1635.2	1643.9	1633.0	1630.8	1614.6	1599.1	1578.5	1557.9	1563.0	1556.7
16°	1629.8	1630.3	1640.3	1628.1	1626.5	1609.5	1593.5	1572.2	1549.9	1555.4	1548.9
16.5°	1625.0	1625.2	1635.7	1623.1	1622.1	1603.9	1587.4	1565.1	1541.4	1547.9	1541.6
17°	1619.9	1619.9	1630.8	1617.5	1617.5	1598.3	1580.9	1558.1	1532.4	1540.2	1534.1
17.5°	1614.6	1614.3	1625.5	1611.9	1612.6	1592.0	1574.1	1550.4	1523.4	1531.7	1526.1
18°	1609.5	1608.5	1619.9	1605.9	1607.5	1586.0	1567.6	1541.9	1514.2	1523.0	1518.1
18.5°	1603.9	1602.5	1613.8	1599.5	1602.2	1579.2	1560.0	1533.6	1504.5	1513.3	1509.6
19°	1598.3	1596.2	1607.3	1593.2	1596.9	1572.6	1552.3	1524.7	1494.4	1503.8	1501.2
19.5°	1592.3	1589.6	1600.5	1586.7	1591.1	1565.6	1544.0	1515.2	1483.9	1493.9	1492.4
20°	1585.5	1582.6	1593.5	1579.7	1585.0	1558.1	1535.6	1505.5	1473.0	1483.5	1483.7
20.5°	1578.7	1575.3	1585.5	1572.2	1578.2	1550.4	1526.6	1494.9	1462.1	1472.1	1474.3
21°	1571.2	1567.6	1577.3	1564.6	1571.4	1542.1	1517.1	1483.9	1450.0	1460.7	1464.8



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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°	1546.2	1542.1	1549.6	1539.2	1548.2	1514.7	1486.4	1448.3	1413.4	1424.1	1435.2
23°	1537.0	1532.9	1539.2	1530.2	1539.2	1505.0	1475.2	1436.2	1400.8	1411.2	1425.1
23.5°	1526.8	1523.4	1528.8	1521.0	1529.8	1494.9	1464.1	1423.4	1388.2	1398.4	1415.1
24°	1516.4	1513.8	1517.9	1511.6	1520.1	1484.4	1452.2	1410.5	1375.4	1385.5	1404.9
24.5°	1505.5	1504.1	1507.0	1502.1	1509.9	1473.5	1440.6	1397.4	1363.0	1372.2	1394.5
25°	1493.9	1494.1	1495.8	1492.7	1499.2	1463.1	1428.7	1384.3	1350.4	1359.1	1383.6
25.5°	1482.5	1483.9	1484.4	1482.7	1488.1	1452.0	1416.8	1370.8	1337.8	1345.8	1372.5
26°	1470.6	1473.8	1472.6	1472.8	1476.9	1440.8	1404.7	1358.2	1325.4	1332.7	1361.1
26.5°	1458.5	1463.6	1460.9	1462.9	1465.3	1429.4	1392.3	1345.1	1312.8	1319.1	1349.4
27°	1445.9	1453.2	1449.0	1452.4	1452.9	1417.5	1380.2	1332.0	1300.2	1305.6	1337.6
27.5°	1432.8	1442.5	1436.9	1441.5	1440.6	1405.4	1367.9	1318.9	1287.4	1292.5	1325.2
28°	1419.7	1431.4	1424.6	1430.6	1427.7	1393.3	1355.3	1305.8	1274.8	1279.4	1313.1
28.5°	1406.4	1420.2	1412.0	1419.2	1414.4	1380.9	1342.7	1292.7	1262.7	1266.6	1300.5
29°	1393.1	1408.6	1399.1	1407.6	1401.3	1368.3	1329.6	1279.9	1250.3	1253.9	1287.9
29.5°	1380.0	1397.2	1387.0	1396.0	1388.2	1356.0	1317.0	1267.3	1238.2	1241.1	1275.3
30°	1366.4	1385.8	1374.6	1383.9	1374.9	1343.4	1304.4	1254.7	1226.3	1228.5	1262.4
30.5°	1353.3	1373.9	1362.0	1371.7	1361.1	1331.0	1291.8	1242.1	1214.7	1216.1	1249.8
31°	1340.2	1361.8	1349.2	1359.6	1348.0	1318.9	1279.4	1230.2	1203.1	1204.0	1236.5
31.5°	1327.6	1349.9	1337.3	1347.0	1335.1	1306.3	1267.0	1218.6	1191.2	1191.7	1222.4
32°	1314.1	1337.8	1325.0	1334.9	1322.3	1293.9	1254.9	1206.7	1179.5	1179.8	1207.7
32.5°	1301.7	1325.7	1313.1	1322.3	1309.2	1281.8	1242.8	1194.6	1168.2	1167.2	1192.4
33°	1288.4	1312.6	1300.2	1309.7	1296.6	1269.5	1230.4	1182.5	1155.8	1154.3	1175.9
33.5°	1274.3	1299.0	1287.9	1296.1	1282.8	1256.9	1217.4	1169.9	1143.2	1140.8	1158.9
34°	1259.0	1284.0	1274.5	1281.6	1268.7	1243.0	1204.3	1157.2	1130.6	1127.4	1142.0
34.5°	1243.8	1268.7	1260.5	1266.1	1253.7	1229.2	1190.7	1144.2	1117.5	1113.4	1124.3
35°	1228.3	1252.5	1246.2	1250.1	1238.2	1214.2	1176.9	1130.8	1104.4	1099.3	1106.6
35.5°	1212.3	1236.3	1232.1	1234.1	1222.4	1199.4	1162.6	1117.3	1090.8	1084.5	1088.9
36°	1196.3	1219.5	1217.6	1216.9	1206.9	1184.2	1147.3	1103.4	1076.8	1069.8	1070.7
36.5°	1180.0	1202.6	1202.3	1199.9	1189.5	1167.7	1131.8	1088.9	1062.2	1053.8	1052.3
37°	1162.6	1184.9	1186.1	1182.2	1172.8	1150.7	1115.6	1073.6	1047.0	1037.8	1033.9
37.5°	1145.4	1166.7	1170.3	1164.3	1155.1	1133.3	1099.1	1058.4	1031.2	1021.0	1015.2
38°	1127.0	1147.8	1153.1	1145.9	1137.1	1115.6	1082.1	1041.4	1014.5	1002.4	996.1
38.5°	1108.8	1128.9	1135.2	1127.0	1119.2	1097.6	1063.5	1023.2	996.6	982.5	975.5
39°	1091.1	1110.2	1117.3	1108.3	1101.5	1079.0	1044.1	1004.6	976.9	962.2	953.2
39.5°	1071.9	1090.4	1097.9	1088.7	1082.8	1060.1	1024.4	984.7	956.3	941.6	931.4
40°	1052.8	1069.8	1076.8	1068.3	1063.9	1039.9	1004.1	964.3	934.8	920.0	909.3
40.5°	1032.4	1048.4	1055.5	1047.0	1044.1	1019.3	983.0	943.7	913.2	897.2	886.8
41°	1013.0	1026.9	1033.9	1025.4	1024.4	998.3	961.4	922.4	891.4	874.7	864.5
41.5°	992.0	1004.8	1011.6	1003.6	1003.8	976.7	940.1	901.1	869.1	852.4	841.5
42°	970.6	982.8	989.5	982.0	983.0	954.4	918.5	879.3	847.3	828.9	818.4
42.5°	947.6	960.2	967.5	960.2	960.7	932.3	896.5	857.2	825.0	805.1	794.9
43°	925.6	937.9	945.2	937.7	938.4	910.3	874.4	834.9	802.9	781.8	771.9
43.5°	901.8	915.1	922.4	915.4	914.4	887.0	851.6	813.1	780.6	758.6	748.4



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CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	827.9	845.8	853.6	846.8	842.2	816.7	782.6	745.7	713.7	688.8	678.4
45.5°	802.9	822.6	830.3	824.7	817.0	792.5	759.5	724.2	691.4	666.0	655.6
46°	778.0	799.3	807.0	801.5	792.0	767.8	736.0	701.6	668.9	643.0	632.1
46.5°	752.5	775.5	783.8	777.5	767.3	743.5	713.0	679.6	647.1	620.7	609.0
47°	727.8	751.8	760.0	753.2	742.6	719.3	689.3	657.0	624.6	598.4	585.8
47.5°	703.3	727.3	736.3	730.0	717.9	694.8	666.0	635.0	602.5	575.6	563.2
48°	678.8	703.3	713.0	706.2	694.1	670.4	642.5	612.4	580.7	553.8	540.5
48.5°	654.4	679.3	689.0	682.2	670.4	645.9	619.9	590.6	558.9	532.5	518.2
49°	631.3	655.6	665.8	658.2	646.6	622.4	596.7	568.1	536.8	510.4	496.1
49.5°	607.3	631.8	642.2	634.5	622.9	598.9	573.9	546.0	515.5	489.1	474.5
50°	584.1	607.8	618.5	610.5	599.6	575.4	551.1	523.7	494.2	468.0	452.7
50.5°	560.6	583.6	595.0	587.0	577.0	551.6	528.6	501.9	473.3	447.4	431.9
51°	538.0	560.3	570.7	563.0	554.0	528.8	506.0	480.3	452.0	426.3	411.3
51.5°	515.2	537.5	547.7	540.2	531.5	506.8	484.0	459.0	431.6	406.2	391.4
52°	493.4	514.5	524.5	517.4	509.2	484.2	462.2	437.9	411.5	386.3	371.5
52.5°	470.9	491.5	501.4	494.9	486.7	462.9	440.6	416.4	391.2	366.9	352.1
53°	449.6	469.0	478.4	472.4	464.8	440.8	418.8	395.8	371.3	347.1	333.2
53.5°	427.5	446.9	454.9	449.8	443.3	419.5	397.9	375.7	351.7	328.1	315.3
54°	406.9	425.1	432.1	427.5	421.9	398.4	377.3	355.5	332.3	309.5	297.1
54.5°	386.3	403.0	409.8	406.2	400.9	378.3	357.0	335.9	313.4	291.3	279.2
55°	365.7	382.4	388.3	384.9	380.5	358.2	337.4	316.3	295.2	273.4	262.2
55.5°	345.4	361.4	366.2	364.3	360.6	338.1	317.5	297.1	276.8	256.2	245.5
56°	326.0	340.8	345.1	343.7	340.0	318.7	298.1	278.7	259.1	239.2	230.0
56.5°	306.8	320.4	324.5	323.1	320.4	299.6	279.7	260.8	241.6	223.7	214.7
57°	287.4	301.0	304.2	303.7	301.0	281.1	261.3	242.6	225.6	208.2	199.5
57.5°	269.0	281.9	284.0	284.3	282.6	263.2	243.3	226.1	209.6	192.7	183.9
58°	251.1	262.7	264.7	265.6	263.9	245.5	227.1	209.9	193.6	177.2	168.7
58.5°	233.6	244.5	246.2	247.2	246.0	229.3	210.8	193.4	177.6	161.4	154.9
59°	216.7	226.8	228.1	229.0	229.5	213.3	194.6	176.9	161.7	147.6	141.5
59.5°	199.7	209.6	210.6	211.8	212.8	197.0	178.4	160.7	146.9	134.0	128.2
60°	183.7	192.7	193.9	195.1	196.3	180.8	162.4	145.9	132.8	120.9	116.1
60.5°	168.0	176.2	177.4	178.9	179.6	164.8	148.1	131.8	119.5	108.8	104.2
61°	152.7	160.7	161.7	162.6	163.1	150.3	133.5	118.5	106.4	96.9	93.3
61.5°	138.6	145.7	147.1	147.8	148.1	136.0	120.5	105.7	94.3	86.0	82.9
62°	124.3	131.4	133.1	133.3	133.8	122.6	107.8	93.3	82.6	75.6	72.9
62.5°	111.0	117.3	119.5	119.5	119.7	109.5	95.7	81.9	71.7	65.7	63.7
63°	98.6	104.2	106.4	106.2	106.6	96.9	84.1	71.5	61.1	56.7	55.3
63.5°	86.5	91.9	94.5	93.5	94.3	85.3	73.7	61.3	51.9	48.2	47.3
64°	75.6	81.4	82.9	82.4	82.6	74.2	63.7	52.3	43.4	40.7	40.5
64.5°	64.7	71.3	73.2	72.5	71.5	64.0	54.5	43.6	35.6	34.2	33.9
65°	54.0	60.8	63.5	62.5	61.3	54.5	46.0	36.1	30.5	29.3	29.3
65.5°	43.1	50.4	53.8	52.6	51.9	45.6	38.0	31.0	25.7	24.7	24.7
66°	32.2	40.2	44.1	42.7	43.1	37.6	32.5	25.7	20.6	20.1	20.4



TEST NUMBER: P775925

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.9	19.4	22.8	21.8	24.5	20.8	16.2	9.9	7.3	7.8	8.0
68°	9.0	14.3	17.0	16.5	18.9	15.3	10.7	7.3	4.6	5.3	5.3
68.5°	7.0	10.2	12.1	11.9	13.6	9.7	7.3	4.8	2.7	3.4	3.4
69°	5.1	8.5	8.2	8.2	8.0	6.5	4.8	3.2	1.7	2.2	2.2
69.5°	3.2	6.8	6.5	6.5	5.1	4.1	2.7	1.9	1.5	1.5	1.5
70°	1.5	5.1	4.8	4.8	3.2	2.2	1.7	1.5	1.5	1.5	1.5
70.5°	1.2	3.2	3.2	3.2	1.9	1.5	1.5	1.2	1.2	1.5	1.5
71°	1.2	1.5	1.7	1.7	1.5	1.5	1.2	1.2	1.2	1.2	1.5
71.5°	1.2	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2
72°	1.2	1.2	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
73°	1.2	1.2	1.5	1.5	1.2	1.2	1.2	1.0	1.2	1.2	1.2
73.5°	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.2	1.2
74°	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.2
74.5°	1.0	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	1.0	1.0
77°	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	1.0
77.5°	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7
78°	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7
78.5°	0.7	0.7	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
79°	0.7	0.7	0.7	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
79.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
80°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
80.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
83°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.5	0.5	0.2	0.2	0.2	0.0	0.2	0.2
85°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
85.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
86°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
86.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.2	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: P775925
CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-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	0.2	0.2



TEST NUMBER: P775925

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2
0.5°	1681.0	1679.8	1680.7	1681.5	1682.2	1682.0
1°	1680.0	1678.8	1680.3	1681.5	1682.7	1682.7
1.5°	1678.8	1677.6	1679.5	1681.5	1682.7	1683.2
2°	1677.6	1676.1	1678.3	1680.7	1682.4	1683.4
2.5°	1675.9	1674.4	1677.1	1679.8	1682.2	1683.4
3°	1674.0	1672.5	1675.2	1678.6	1681.7	1683.4
3.5°	1671.8	1670.3	1673.2	1677.1	1681.0	1683.4
4°	1669.1	1667.7	1671.0	1675.6	1680.0	1682.9
4.5°	1666.2	1665.0	1668.4	1673.7	1679.0	1682.4
5°	1663.0	1661.8	1665.7	1671.5	1678.1	1682.0
5.5°	1659.7	1658.4	1662.8	1669.3	1676.9	1681.0
6°	1656.0	1655.0	1659.7	1666.9	1675.4	1680.0
6.5°	1652.4	1651.4	1656.5	1664.5	1673.7	1679.3
7°	1648.5	1647.8	1653.4	1662.1	1672.3	1678.1
7.5°	1644.6	1643.9	1649.7	1659.4	1670.3	1677.1
8°	1640.7	1640.0	1646.3	1656.7	1668.6	1675.6
8.5°	1636.6	1636.1	1642.7	1654.1	1666.4	1674.0
9°	1632.5	1632.0	1639.1	1651.2	1664.0	1672.3
9.5°	1628.4	1627.7	1635.2	1648.0	1661.3	1670.3
10°	1624.3	1623.3	1631.1	1644.9	1658.7	1668.4
10.5°	1619.9	1618.9	1627.2	1641.7	1655.8	1666.0
11°	1615.5	1614.3	1623.1	1638.6	1652.6	1663.5
11.5°	1610.9	1609.2	1618.5	1635.2	1649.5	1660.9
12°	1606.3	1604.4	1614.1	1631.8	1646.3	1658.4
12.5°	1601.5	1598.8	1609.2	1627.9	1642.7	1655.5
13°	1596.4	1593.2	1604.2	1624.3	1638.8	1652.6
13.5°	1591.3	1586.9	1599.1	1619.9	1634.9	1649.2
14°	1585.5	1580.4	1593.2	1615.3	1630.6	1645.8
14.5°	1579.4	1573.6	1586.9	1610.5	1626.0	1642.4
15°	1573.1	1566.3	1580.4	1604.9	1621.1	1638.3
15.5°	1566.1	1558.6	1573.4	1599.1	1615.5	1634.2
16°	1558.8	1550.4	1565.9	1593.0	1610.0	1629.8
16.5°	1551.1	1541.9	1557.9	1586.5	1603.7	1625.0
17°	1543.1	1532.9	1549.6	1579.4	1597.6	1619.9
17.5°	1534.8	1523.7	1540.9	1571.9	1591.1	1614.6
18°	1525.9	1514.0	1531.9	1564.4	1584.3	1609.5
18.5°	1516.7	1504.1	1523.0	1556.2	1577.3	1603.9
19°	1507.0	1493.9	1513.0	1547.7	1570.2	1598.3
19.5°	1496.8	1483.0	1502.8	1538.7	1562.7	1592.3
20°	1486.1	1471.6	1492.2	1529.3	1555.0	1585.5
20.5°	1475.0	1460.2	1481.3	1519.6	1546.5	1578.7
21°	1463.6	1448.1	1469.9	1509.2	1537.5	1571.2

TEST NUMBER: P775925

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1426.7	1411.0	1433.8	1475.9	1509.4	1546.2
23°	1413.9	1397.9	1420.9	1463.8	1499.2	1537.0
23.5°	1400.8	1385.1	1408.6	1451.7	1489.0	1526.8
24°	1387.7	1372.2	1395.7	1439.6	1478.1	1516.4
24.5°	1374.2	1359.1	1382.9	1427.0	1467.0	1505.5
25°	1360.8	1346.0	1370.0	1414.1	1455.6	1493.9
25.5°	1347.5	1333.0	1357.4	1401.8	1444.7	1482.5
26°	1333.7	1320.1	1344.1	1389.2	1433.1	1470.6
26.5°	1319.9	1306.8	1331.3	1376.6	1421.2	1458.5
27°	1306.3	1293.7	1318.2	1363.5	1409.3	1445.9
27.5°	1293.0	1280.6	1305.3	1350.6	1397.2	1432.8
28°	1279.6	1268.0	1292.0	1337.6	1384.6	1419.7
28.5°	1266.6	1255.4	1279.6	1324.7	1372.2	1406.4
29°	1253.2	1242.3	1267.0	1311.9	1359.4	1393.1
29.5°	1240.4	1230.2	1254.4	1299.5	1346.8	1380.0
30°	1228.0	1218.3	1241.8	1286.9	1334.2	1366.4
30.5°	1215.9	1206.2	1230.0	1274.5	1322.1	1353.3
31°	1203.5	1194.3	1218.1	1262.2	1309.9	1340.2
31.5°	1190.9	1182.0	1205.7	1250.3	1297.3	1327.6
32°	1178.8	1170.1	1193.6	1237.5	1284.7	1314.1
32.5°	1166.5	1158.0	1181.5	1225.4	1272.4	1301.7
33°	1153.1	1145.1	1168.9	1212.7	1259.8	1288.4
33.5°	1139.6	1132.3	1155.8	1199.2	1246.2	1274.3
34°	1126.0	1118.7	1142.7	1185.4	1231.7	1259.0
34.5°	1112.2	1105.4	1128.9	1171.3	1216.4	1243.8
35°	1097.6	1091.8	1115.1	1156.8	1201.1	1228.3
35.5°	1083.3	1078.0	1101.3	1142.2	1185.4	1212.3
36°	1067.8	1063.2	1087.2	1127.0	1169.4	1196.3
36.5°	1052.1	1048.2	1072.4	1111.9	1152.6	1180.0
37°	1035.1	1032.7	1056.7	1095.7	1135.4	1162.6
37.5°	1018.6	1016.9	1040.9	1078.5	1117.5	1145.4
38°	1000.7	1000.0	1024.4	1061.3	1099.3	1127.0
38.5°	981.1	981.8	1006.7	1043.6	1081.1	1108.8
39°	960.7	962.6	987.8	1024.4	1062.2	1091.1
39.5°	940.1	942.3	967.7	1004.1	1043.1	1071.9
40°	917.6	921.0	946.9	983.0	1023.0	1052.8
40.5°	895.0	898.9	925.8	961.9	1002.4	1032.4
41°	872.0	876.4	904.2	940.3	980.6	1013.0
41.5°	849.2	853.3	881.9	918.8	958.3	992.0
42°	825.7	831.5	860.4	896.7	936.9	970.6
42.5°	802.2	808.5	838.1	874.2	914.7	947.6
43°	778.7	786.2	816.0	851.6	892.1	925.6
43.5°	755.9	762.5	793.5	828.9	868.4	901.8



TEST NUMBER: P775925

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	684.2	694.8	726.1	759.5	797.8	827.9
45.5°	661.6	671.8	703.8	736.5	773.8	802.9
46°	637.9	649.5	681.7	713.5	749.6	778.0
46.5°	614.9	627.0	659.0	689.5	724.9	752.5
47°	592.1	604.7	636.7	666.5	700.7	727.8
47.5°	570.0	581.7	613.9	643.2	676.4	703.3
48°	547.5	559.8	591.3	620.2	652.2	678.8
48.5°	525.7	537.5	568.6	596.7	627.7	654.4
49°	503.6	516.0	546.3	574.6	604.2	631.3
49.5°	483.3	494.4	524.0	551.4	580.4	607.3
50°	461.2	472.8	501.9	528.6	556.9	584.1
50.5°	440.4	451.3	479.4	506.0	533.2	560.6
51°	419.5	430.4	458.1	484.0	510.4	538.0
51.5°	399.2	409.8	436.5	461.7	487.9	515.2
52°	379.5	389.7	415.4	440.4	466.1	493.4
52.5°	359.7	369.8	394.1	418.5	443.8	470.9
53°	340.3	349.7	373.7	397.2	422.4	449.6
53.5°	321.4	330.3	353.4	375.7	401.3	427.5
54°	302.9	311.4	333.2	355.3	380.5	406.9
54.5°	284.5	293.0	313.9	335.4	360.4	386.3
55°	267.1	274.8	294.7	315.1	340.3	365.7
55.5°	249.9	256.7	275.6	295.2	320.9	345.4
56°	233.1	239.4	257.1	276.8	301.7	326.0
56.5°	217.4	222.5	239.2	258.4	283.3	306.8
57°	201.9	206.0	221.8	240.2	265.1	287.4
57.5°	186.4	189.5	204.3	222.5	247.0	269.0
58°	170.9	174.5	188.6	205.5	230.0	251.1
58.5°	156.6	159.2	172.3	189.3	213.8	233.6
59°	142.7	144.7	157.0	173.5	197.5	216.7
59.5°	129.4	130.9	142.3	158.5	182.0	199.7
60°	116.8	117.3	128.2	143.5	167.0	183.7
60.5°	104.9	104.7	114.9	130.1	152.0	168.0
61°	93.3	92.3	102.0	116.8	137.7	152.7
61.5°	82.6	82.2	89.9	104.5	124.3	138.6
62°	72.5	72.5	80.5	92.3	111.2	124.3
62.5°	63.0	62.8	70.8	82.4	98.6	111.0
63°	54.5	53.1	61.3	72.9	87.0	98.6
63.5°	46.5	43.1	51.6	63.5	77.3	86.5
64°	39.5	35.9	42.2	54.0	67.9	75.6
64.5°	33.2	29.8	34.9	44.6	58.4	64.7
65°	28.8	24.2	28.6	37.3	48.7	54.0
65.5°	24.2	19.6	23.0	30.5	39.3	43.1
66°	19.6	15.5	18.2	24.5	31.7	32.2



TEST NUMBER: P775925

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	7.8	7.3	8.0	10.9	14.3	10.9
68°	5.3	5.6	6.3	7.8	10.2	9.0
68.5°	3.4	3.9	4.6	6.1	8.2	7.0
69°	2.2	1.9	3.2	4.4	6.5	5.1
69.5°	1.5	1.5	1.5	2.9	4.8	3.2
70°	1.5	1.2	1.2	1.2	2.9	1.5
70.5°	1.5	1.2	1.2	1.2	1.2	1.2
71°	1.2	1.2	1.2	1.2	1.2	1.2
71.5°	1.2	1.2	1.2	1.2	1.2	1.2
72°	1.2	1.2	1.0	1.0	1.2	1.2
72.5°	1.2	1.2	1.0	1.0	1.0	1.2
73°	1.2	1.0	1.0	1.0	1.0	1.2
73.5°	1.2	1.0	1.0	1.0	1.0	1.0
74°	1.0	1.0	1.0	1.0	1.0	1.0
74.5°	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	0.7	0.7	0.7	1.0
76°	1.0	1.0	0.7	0.7	0.7	1.0
76.5°	1.0	0.7	0.7	0.7	0.7	0.7
77°	1.0	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	0.7	0.7
79°	0.7	0.7	0.7	0.5	0.5	0.7
79.5°	0.7	0.7	0.5	0.5	0.5	0.5
80°	0.7	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	0.5	0.5
82°	0.5	0.5	0.5	0.5	0.2	0.5
82.5°	0.5	0.5	0.5	0.2	0.2	0.2
83°	0.5	0.5	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	0.2	0.0
85.5°	0.2	0.2	0.2	0.2	0.0	0.0
86°	0.2	0.2	0.2	0.2	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: P775925
CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.2	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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Scaled Data Report





21.5°	1563.2	1559.3	1568.3	1556.4	1564.2	1533.4	1507.2	1472.6	1437.9	1448.6	1455.1
22°	1555.2	1550.8	1559.1	1548.2	1556.4	1524.4	1497.3	1460.7	1425.8	1436.4	1445.4



44°	877.6	892.4	899.6	892.8	891.4	863.3	828.4	790.3	757.8	735.1	725.1
44.5°	851.6	869.3	876.6	870.3	865.9	839.8	805.6	768.3	735.8	711.6	701.9



66.5°	24.0	32.2	36.1	34.9	35.4	32.0	27.1	20.4	15.5	15.3	15.8
67°	16.5	25.4	29.1	27.9	29.8	26.4	21.6	15.3	10.7	10.7	11.1



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2

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21.5°	1451.7	1436.2	1458.3	1498.2	1528.5	1563.2
22°	1439.1	1423.4	1446.1	1487.3	1519.1	1555.2



44°	730.9	739.9	770.7	806.1	845.1	877.6
44.5°	707.4	717.1	748.4	782.8	821.8	851.6



66.5°	15.0	12.1	14.1	19.4	25.0	24.0
67°	10.7	9.2	10.7	14.8	19.1	16.5

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89°	0.2	0.2	0.0	0.0	0.0	0.0
89.5°	0.2	0.2	0.0	0.0	0.0	0.0

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Scaled Data Report



(END OF REPORT)