

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: P776098

Luminaire Tested: HCDJBS1525CSD-HCD6TRMW-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776098
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: HCDJBS1525CSD-HCD6TRMW-2500lm-4000K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

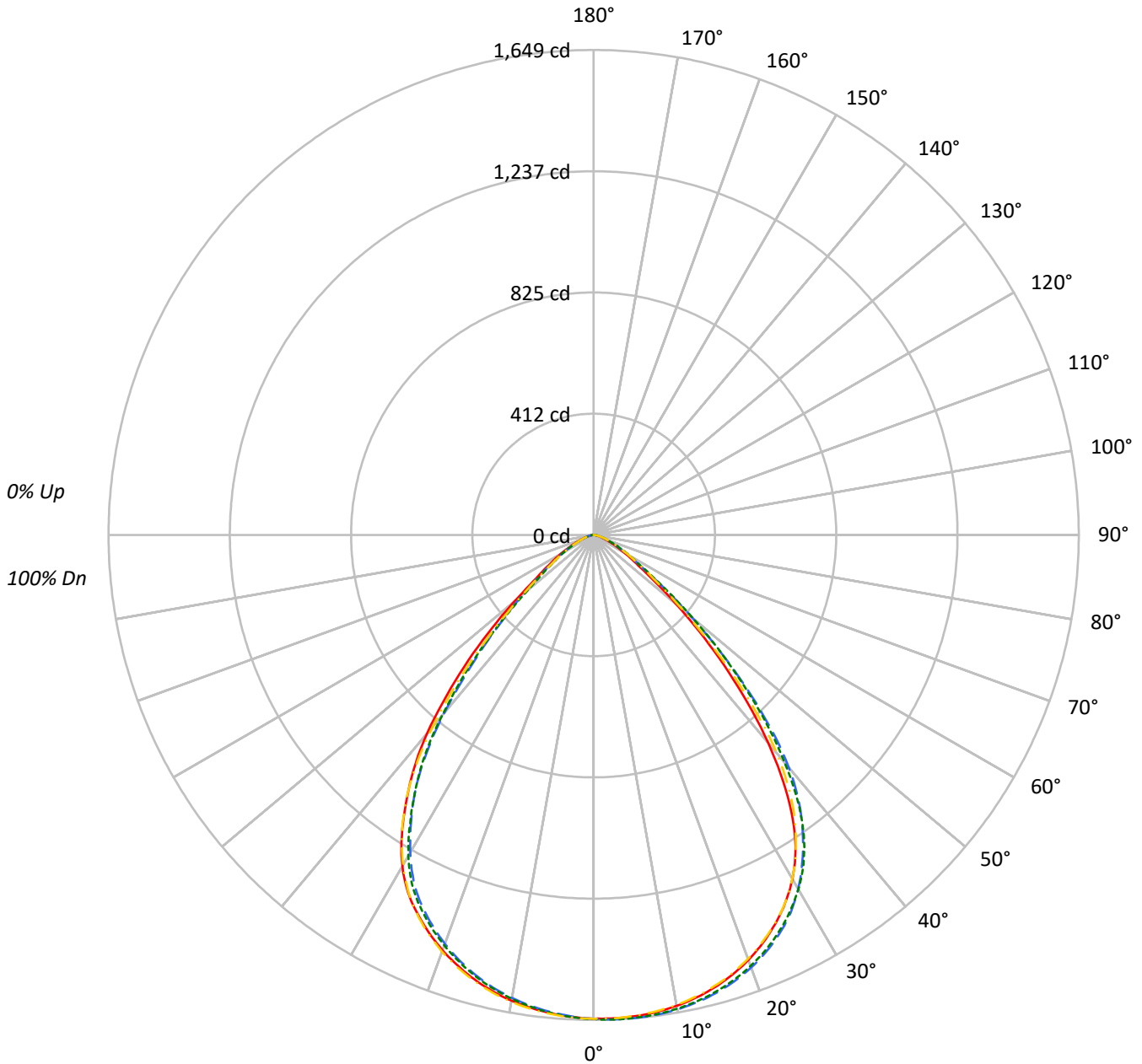
Lumens per Lamp: N/A
Luminaire Lumens: 2749.5 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P776098
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P776098

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-4000K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	90212	90212	90212	90212
5°	90375	90694	89885	89830
10°	90513	91064	89511	89171
15°	90364	91243	88820	88156
20°	89724	90985	87648	86638
25°	88293	90078	85862	84416
30°	85526	88071	82323	79765
35°	78983	83306	74425	70664
40°	66009	72192	63075	57343
45°	48602	55657	46586	40632
50°	31189	37517	29969	25074
55°	18647	22632	19593	16993
60°	13135	15394	14187	12356
65°	8976	10922	10001	8847
70°	6155	7902	6972	6395
75°	4257	5867	4956	4639
80°	2904	4483	3536	3283
85°	1258	3522	2076	1950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 57332 cd/sqm



TEST NUMBER: P776098

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	5.7
10°-20°	445.3	16.2
20°-30°	661.2	24.0
30°-40°	709.5	25.8
40°-50°	475.5	17.3
50°-60°	193.5	7.0
60°-70°	77.3	2.8
70°-80°	26.4	1.0
80°-90°	4.8	0.2
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°	1262.3	45.9
0°-40°	1971.9	71.7
0°-60°	2641.0	96.1
0°-90°	2749.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2749.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1646	1646	1646	1646	1646	
5°	1642	1648	1633	1632	1642	156
15°	1592	1608	1565	1553	1592	449
25°	1460	1489	1420	1396	1460	671
35°	1180	1245	1112	1056	1180	726
45°	627	718	601	524	627	484
55°	195	237	205	178	195	188
65°	69	84	77	68	69	71
75°	20	28	23	22	20	22
85°	2	6	3	3	2	3
90°	0	0	0	0	0	



TEST NUMBER: P776098

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6
0.5°	1644.8	1645.6	1646.6	1647.4	1647.6	1647.4	1645.3	1643.8	1644.1	1644.1	1644.8
1°	1645.3	1646.4	1647.4	1648.1	1648.4	1647.9	1645.3	1643.6	1643.3	1643.1	1643.6
1.5°	1645.3	1646.9	1648.1	1648.9	1648.6	1647.9	1645.3	1643.1	1642.8	1641.8	1642.3
2°	1645.1	1647.1	1648.6	1649.4	1648.9	1648.1	1645.1	1642.5	1641.8	1640.5	1640.8
2.5°	1644.8	1647.4	1648.9	1649.7	1649.2	1648.1	1644.8	1641.8	1640.8	1639.2	1639.2
3°	1644.6	1647.4	1649.2	1649.9	1649.2	1647.9	1644.3	1641.0	1639.7	1637.7	1637.7
3.5°	1644.3	1647.4	1649.4	1649.9	1649.2	1647.6	1643.6	1640.0	1638.2	1635.9	1635.7
4°	1643.8	1647.4	1649.2	1649.9	1648.9	1647.1	1642.8	1638.7	1636.7	1634.2	1633.9
4.5°	1643.1	1646.9	1649.2	1649.9	1648.6	1646.6	1642.0	1637.7	1635.2	1632.1	1631.9
5°	1642.3	1646.6	1648.9	1649.4	1648.1	1645.8	1640.8	1636.2	1633.4	1630.1	1629.6
5.5°	1641.5	1645.8	1648.4	1649.2	1647.6	1644.8	1639.7	1634.7	1631.6	1627.8	1627.0
6°	1640.3	1645.3	1647.9	1648.6	1646.9	1643.8	1638.5	1632.9	1629.6	1625.5	1624.7
6.5°	1639.0	1644.3	1647.1	1647.9	1645.8	1642.8	1636.9	1631.1	1627.5	1623.0	1621.9
7°	1637.7	1643.6	1646.4	1647.1	1645.1	1641.5	1635.2	1629.1	1625.3	1620.2	1619.1
7.5°	1636.2	1642.3	1645.3	1646.1	1643.8	1640.0	1633.6	1627.0	1622.7	1617.4	1616.1
8°	1634.4	1641.0	1644.3	1645.1	1642.5	1638.5	1631.6	1624.7	1620.2	1614.3	1613.0
8.5°	1632.6	1639.7	1643.1	1643.8	1641.3	1636.9	1629.6	1622.2	1617.1	1611.3	1609.7
9°	1630.3	1638.2	1641.8	1642.5	1639.5	1634.9	1627.5	1619.7	1614.3	1608.0	1605.9
9.5°	1628.3	1636.4	1640.0	1641.0	1637.7	1633.1	1625.0	1616.9	1611.3	1604.4	1602.4
10°	1626.0	1634.7	1638.5	1639.2	1635.9	1631.1	1622.5	1614.1	1608.0	1600.6	1598.8
10.5°	1623.5	1632.4	1636.4	1637.5	1633.6	1628.6	1619.9	1610.8	1604.7	1596.8	1594.7
11°	1620.7	1630.3	1634.4	1635.4	1631.6	1626.3	1617.1	1607.7	1600.8	1593.0	1590.4
11.5°	1617.9	1627.8	1632.1	1633.4	1629.1	1623.5	1614.1	1604.1	1597.0	1588.6	1586.1
12°	1614.6	1625.3	1629.8	1630.8	1626.8	1620.4	1610.8	1600.6	1593.0	1584.1	1581.5
12.5°	1611.3	1622.2	1627.3	1628.3	1624.0	1617.6	1607.4	1596.8	1588.9	1579.5	1576.7
13°	1608.0	1619.4	1624.7	1625.8	1620.9	1614.3	1603.9	1592.7	1584.3	1574.6	1571.8
13.5°	1604.4	1616.4	1621.7	1622.7	1617.9	1611.0	1600.1	1588.6	1579.7	1569.6	1566.5
14°	1600.6	1613.3	1618.6	1619.7	1614.8	1607.4	1596.3	1584.1	1575.2	1564.2	1560.9
14.5°	1596.5	1609.5	1615.3	1616.6	1611.3	1603.6	1591.9	1579.5	1570.1	1558.9	1555.3
15°	1592.2	1605.9	1611.8	1613.3	1607.7	1599.8	1587.6	1574.6	1565.0	1553.3	1549.5
15.5°	1587.9	1601.9	1608.0	1609.7	1603.6	1595.8	1583.3	1570.1	1559.4	1547.2	1543.4
16°	1583.0	1597.8	1604.1	1605.7	1599.6	1591.4	1578.7	1564.7	1554.0	1541.1	1537.0
16.5°	1578.2	1593.5	1600.1	1601.6	1595.5	1586.9	1573.9	1559.4	1548.2	1535.0	1530.7
17°	1572.9	1589.1	1596.0	1597.5	1590.9	1582.3	1568.8	1553.8	1542.1	1528.4	1524.0
17.5°	1567.8	1584.3	1591.4	1593.0	1586.3	1577.2	1563.5	1548.2	1536.0	1521.5	1516.9
18°	1562.2	1579.2	1586.6	1588.4	1581.3	1572.1	1557.9	1542.1	1529.6	1514.6	1509.8
18.5°	1556.3	1574.1	1581.8	1583.3	1576.2	1566.8	1552.0	1536.0	1523.3	1507.5	1502.4
19°	1550.5	1568.5	1576.4	1578.2	1570.8	1561.2	1546.2	1529.6	1516.4	1500.4	1494.8
19.5°	1544.4	1562.9	1571.1	1572.9	1565.5	1555.3	1540.1	1523.3	1509.5	1492.8	1486.9
20°	1538.0	1557.1	1565.5	1567.5	1559.6	1549.2	1533.7	1516.4	1502.4	1485.1	1479.0
20.5°	1531.4	1551.0	1559.4	1561.7	1553.8	1543.1	1527.1	1509.5	1495.0	1476.7	1470.9
21°	1524.3	1544.6	1553.5	1555.6	1547.4	1536.5	1520.2	1502.4	1487.4	1468.9	1462.2



TEST NUMBER: P776098

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1502.2	1524.0	1533.4	1536.2	1527.6	1515.9	1498.6	1479.5	1463.8	1442.7	1435.5
23°	1494.0	1516.7	1526.6	1529.1	1520.2	1508.3	1490.7	1471.7	1455.1	1433.5	1426.1
23.5°	1485.6	1509.0	1519.0	1521.7	1512.8	1500.4	1482.6	1463.5	1446.7	1424.4	1416.5
24°	1477.2	1501.2	1511.6	1514.4	1505.2	1492.5	1474.4	1454.9	1437.8	1414.9	1406.6
24.5°	1468.6	1492.8	1503.2	1506.5	1497.3	1484.6	1466.3	1446.2	1428.7	1405.3	1396.6
25°	1459.7	1484.4	1495.3	1498.6	1489.2	1476.2	1457.7	1437.3	1419.5	1395.4	1386.5
25.5°	1450.3	1476.0	1486.7	1490.0	1480.8	1467.6	1448.8	1428.4	1410.1	1384.9	1375.8
26°	1440.9	1467.1	1478.0	1481.6	1472.2	1458.9	1439.9	1419.0	1400.2	1374.0	1364.3
26.5°	1431.0	1457.7	1468.3	1472.7	1463.3	1449.5	1430.2	1409.3	1390.0	1362.0	1352.1
27°	1421.0	1447.7	1459.2	1463.3	1453.9	1440.1	1420.3	1398.9	1379.3	1349.6	1339.2
27.5°	1409.9	1437.8	1449.0	1453.6	1444.2	1430.5	1409.9	1388.0	1368.2	1336.9	1325.4
28°	1399.4	1427.1	1438.3	1443.4	1434.3	1420.3	1398.9	1376.5	1355.9	1323.4	1310.9
28.5°	1387.5	1416.0	1426.6	1432.7	1424.6	1409.9	1387.7	1364.8	1343.2	1309.4	1295.9
29°	1376.0	1404.3	1415.5	1421.6	1413.7	1399.2	1375.8	1352.1	1330.0	1293.9	1279.7
29.5°	1363.6	1392.3	1403.2	1409.9	1402.7	1387.7	1363.6	1339.2	1315.8	1278.4	1263.1
30°	1351.1	1379.8	1390.8	1397.9	1391.3	1376.3	1350.3	1325.2	1300.5	1262.4	1246.1
30.5°	1337.1	1366.6	1377.3	1385.4	1379.8	1363.6	1336.9	1310.4	1285.0	1245.6	1228.8
31°	1323.6	1352.9	1364.1	1372.5	1367.4	1350.9	1323.1	1295.4	1268.2	1227.8	1210.5
31.5°	1308.6	1338.9	1349.8	1358.5	1354.4	1337.6	1308.4	1279.7	1250.9	1209.5	1192.9
32°	1293.1	1323.9	1334.8	1344.8	1341.2	1323.4	1293.6	1262.6	1232.9	1190.9	1174.4
32.5°	1276.6	1308.4	1319.8	1329.8	1327.0	1309.2	1277.9	1245.3	1213.8	1171.3	1155.8
33°	1260.1	1292.4	1304.3	1314.7	1312.2	1294.1	1261.9	1227.3	1194.5	1151.5	1136.2
33.5°	1241.8	1276.3	1288.6	1299.0	1296.7	1278.1	1245.6	1209.0	1174.4	1130.9	1117.2
34°	1222.2	1259.3	1272.8	1282.7	1280.7	1262.4	1228.8	1189.6	1154.0	1109.3	1096.0
34.5°	1201.3	1242.5	1256.3	1266.4	1263.1	1244.3	1211.5	1169.3	1133.4	1087.9	1076.0
35°	1180.2	1224.0	1239.2	1248.9	1244.8	1226.8	1193.2	1149.2	1112.1	1066.0	1054.1
35.5°	1158.1	1205.7	1221.9	1231.3	1226.0	1208.2	1174.9	1129.6	1091.5	1043.7	1031.7
36°	1134.2	1186.3	1204.6	1213.3	1205.9	1189.6	1155.6	1108.3	1070.1	1020.8	1007.8
36.5°	1109.5	1167.0	1185.8	1195.0	1184.5	1169.0	1135.2	1087.9	1048.7	997.4	983.9
37°	1084.6	1145.9	1167.0	1175.6	1162.2	1147.9	1113.6	1066.3	1026.4	973.7	958.2
37.5°	1058.7	1124.3	1146.4	1155.0	1138.5	1125.3	1091.5	1045.7	1004.2	950.3	932.0
38°	1032.2	1101.1	1126.1	1134.2	1113.6	1102.9	1068.6	1023.1	981.6	924.4	905.6
38.5°	1005.3	1077.7	1103.9	1111.8	1088.4	1077.7	1044.9	1001.4	958.5	898.2	878.4
39°	978.3	1052.8	1080.8	1088.9	1063.0	1052.3	1020.3	977.5	934.3	871.2	849.1
39.5°	950.6	1026.1	1056.4	1064.5	1036.3	1025.4	994.6	953.9	908.4	844.8	819.9
40°	922.4	997.9	1031.5	1038.6	1008.8	997.1	967.9	927.4	881.4	815.3	789.6
40.5°	893.9	968.9	1004.8	1011.1	982.1	967.4	939.9	901.0	853.2	786.6	758.8
41°	864.6	939.1	976.5	982.4	954.4	937.6	911.2	872.5	824.2	758.3	728.6
41.5°	834.9	909.1	948.6	952.6	926.7	907.6	880.9	844.3	795.5	730.1	697.8
42°	804.4	878.6	918.8	921.8	897.7	876.8	849.4	813.5	766.0	700.6	669.1
42.5°	773.6	849.1	888.8	891.3	869.2	845.3	818.9	783.8	738.2	672.9	641.1
43°	743.1	819.4	857.0	861.3	840.0	815.5	788.1	753.0	710.5	644.4	613.6
43.5°	713.3	789.9	826.2	830.8	808.9	784.0	757.6	722.7	683.1	617.2	586.7



TEST NUMBER: P776098

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	626.9	700.1	730.9	739.5	717.9	691.5	664.5	635.0	600.9	536.3	510.1
45.5°	599.1	670.1	698.3	709.5	687.6	661.4	634.2	606.3	573.7	511.1	486.5
46°	570.9	640.6	666.0	679.8	659.4	631.7	603.5	577.8	547.0	486.5	463.6
46.5°	542.7	611.3	635.2	650.3	630.9	603.2	574.2	549.3	520.3	463.1	441.0
47°	514.7	581.3	604.2	620.0	602.7	575.2	544.7	520.3	494.1	439.2	419.9
47.5°	488.3	552.9	574.2	590.2	574.0	548.0	517.0	492.8	468.9	417.6	399.5
48°	462.1	524.4	544.7	561.5	546.0	521.8	489.8	466.1	444.3	396.2	380.2
48.5°	436.4	496.7	517.0	533.0	518.8	496.7	464.4	440.2	420.4	375.9	360.9
49°	412.0	469.4	489.5	504.8	492.1	471.2	439.2	415.0	395.9	356.0	343.1
49.5°	388.8	442.5	463.1	478.1	465.6	446.3	415.5	391.1	373.1	337.2	325.8
50°	365.7	416.5	436.4	451.1	439.9	422.4	392.1	368.7	351.4	319.4	309.2
50.5°	343.8	391.4	411.7	424.9	414.8	399.0	370.8	347.4	330.1	302.6	293.5
51°	322.7	367.0	387.6	399.0	391.4	376.6	350.2	327.3	310.2	286.9	278.5
51.5°	302.6	343.6	364.4	375.4	368.2	355.3	331.1	308.7	291.9	271.6	264.0
52°	283.5	321.7	342.0	352.2	346.6	333.9	312.5	290.9	275.4	257.1	250.5
52.5°	265.5	301.3	320.9	329.8	324.7	313.8	295.2	274.6	259.9	243.6	237.8
53°	248.5	282.3	300.8	308.5	304.4	295.5	278.7	259.9	246.7	231.4	226.8
53.5°	233.2	264.5	281.8	289.1	285.1	278.0	263.5	246.2	234.5	220.7	215.6
54°	219.0	247.7	264.2	270.8	266.8	261.4	249.5	233.7	224.5	209.8	204.7
54.5°	206.5	232.7	246.9	253.8	249.7	246.2	236.2	223.5	214.6	199.1	193.8
55°	195.1	219.0	231.2	238.0	236.8	233.7	225.1	213.6	205.0	188.4	182.6
55.5°	184.4	206.5	216.9	223.8	224.0	221.5	214.1	203.4	195.1	179.3	173.7
56°	175.0	194.5	203.7	210.6	211.1	209.3	202.9	193.3	185.1	170.9	165.6
56.5°	166.6	183.6	192.0	198.4	198.1	197.1	191.7	183.1	176.7	163.0	158.4
57°	159.4	173.9	181.3	187.2	185.4	184.9	180.8	174.7	168.9	156.7	152.1
57.5°	152.6	165.6	171.7	177.0	176.0	175.7	171.9	166.6	161.5	150.0	145.7
58°	146.0	158.4	163.8	168.1	167.3	167.1	164.0	159.7	155.1	143.7	139.4
58.5°	139.4	151.6	156.9	160.7	160.5	160.2	157.4	153.3	148.5	137.3	132.7
59°	132.5	145.0	150.3	154.1	153.6	153.6	150.8	146.7	142.2	131.0	126.6
59.5°	126.1	138.1	143.4	147.5	147.0	147.0	144.4	140.1	135.5	124.9	120.8
60°	119.8	131.5	136.6	140.6	140.4	140.1	137.6	134.0	129.4	119.0	115.2
60.5°	113.4	124.9	129.9	134.0	133.5	133.5	131.2	127.7	123.6	113.4	109.6
61°	107.6	118.8	123.6	127.4	127.2	127.2	125.1	121.8	117.7	108.1	104.3
61.5°	102.0	112.7	117.5	121.0	120.5	121.0	119.0	116.0	111.9	103.0	99.4
62°	96.6	107.1	111.4	114.9	114.7	114.9	113.4	110.4	106.3	97.9	94.6
62.5°	91.3	101.7	105.8	109.1	108.8	109.4	107.8	105.0	101.0	93.1	90.0
63°	86.7	96.4	100.4	103.5	103.5	103.8	102.5	99.9	95.9	88.2	85.4
63.5°	82.4	90.8	95.4	98.4	98.2	98.7	97.4	95.1	90.8	83.7	81.4
64°	77.8	86.5	91.0	93.3	93.3	93.6	92.6	90.5	86.0	79.3	77.3
64.5°	73.5	82.1	86.5	89.0	88.8	89.0	88.0	85.7	81.4	75.3	73.5
65°	69.2	77.8	82.1	84.7	84.2	84.7	83.7	81.4	77.1	71.5	69.7
65.5°	65.1	73.5	77.8	80.4	79.9	80.4	79.3	77.3	73.0	67.6	66.4
66°	61.5	69.4	73.5	76.3	75.8	76.3	75.5	73.2	68.9	63.8	62.8



TEST NUMBER: P776098

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	51.6	58.7	62.6	64.6	64.6	65.1	64.6	62.3	58.2	54.2	53.7
68°	48.8	55.7	59.3	61.3	61.3	61.8	61.3	59.0	54.9	51.1	50.9
68.5°	45.8	52.4	55.9	58.0	58.0	58.5	58.0	55.9	51.9	48.3	48.1
69°	43.2	49.6	53.1	54.9	54.9	55.4	55.2	52.9	49.1	45.5	45.5
69.5°	40.7	46.8	50.1	51.9	52.1	52.4	52.1	49.8	46.3	43.0	43.0
70°	38.4	44.0	47.6	49.3	49.3	49.8	49.3	47.3	43.5	40.7	40.7
70.5°	36.1	41.7	44.8	46.5	46.5	47.0	46.8	44.5	40.9	38.1	38.4
71°	33.8	39.2	42.5	44.0	44.2	44.5	44.2	42.2	38.7	36.1	36.4
71.5°	31.8	36.9	40.2	41.7	41.7	42.2	42.0	39.7	36.4	33.8	34.3
72°	29.8	34.8	37.9	39.4	39.4	39.9	39.7	37.4	34.3	31.8	32.3
72.5°	28.0	32.8	35.6	37.1	37.1	37.6	37.4	35.3	32.3	30.0	30.5
73°	26.2	30.8	33.6	35.1	35.1	35.6	35.3	33.1	30.3	28.2	28.7
73.5°	24.7	28.7	31.8	33.1	33.3	33.6	33.3	31.3	28.5	26.4	27.0
74°	23.1	27.0	29.8	31.3	31.3	31.8	31.3	29.2	26.7	24.7	25.4
74.5°	21.6	25.4	28.0	29.5	29.5	29.8	29.5	27.5	24.9	23.1	23.7
75°	20.1	23.9	26.4	27.7	27.7	28.2	27.7	25.9	23.4	21.9	22.1
75.5°	18.8	22.4	24.7	25.9	26.2	26.4	26.2	24.2	21.9	20.3	20.9
76°	17.5	20.9	23.1	24.4	24.7	24.9	24.4	22.6	20.6	19.1	19.6
76.5°	16.3	19.3	21.9	22.9	23.1	23.4	22.9	21.4	19.3	17.5	18.3
77°	15.0	18.1	20.3	21.6	21.6	21.9	21.6	20.1	17.8	16.3	17.0
77.5°	14.0	16.8	19.1	20.1	20.3	20.6	20.3	18.6	16.5	15.0	15.8
78°	13.0	15.5	17.8	18.8	19.1	19.3	19.1	17.3	15.3	14.0	14.5
78.5°	12.0	14.5	16.5	17.5	17.8	18.1	17.5	16.0	14.2	13.0	13.5
79°	10.9	13.5	15.3	16.5	16.5	16.8	16.3	14.7	13.2	12.0	12.5
79.5°	9.9	12.5	14.2	15.3	15.3	15.5	15.3	13.7	12.2	10.9	11.4
80°	9.2	11.4	13.2	14.2	14.2	14.5	14.0	12.5	11.2	9.9	10.4
80.5°	8.4	10.4	12.2	13.2	13.2	13.5	13.0	11.4	10.2	9.2	9.7
81°	7.6	9.4	11.2	12.2	12.2	12.5	12.0	10.7	9.4	8.1	8.6
81.5°	6.6	8.6	10.2	11.2	11.2	11.4	11.2	9.7	8.4	7.4	7.9
82°	6.1	7.9	9.4	10.4	10.4	10.4	10.2	8.6	7.6	6.6	7.1
82.5°	5.3	6.9	8.6	9.4	9.4	9.7	9.4	7.9	6.9	5.8	6.4
83°	4.6	6.1	7.9	8.6	8.6	8.9	8.4	7.1	6.1	5.1	5.6
83.5°	4.1	5.3	7.1	7.9	7.9	8.1	7.6	6.4	5.3	4.3	4.8
84°	3.3	4.8	6.1	7.1	7.1	7.4	6.9	5.6	4.6	3.6	4.3
84.5°	2.8	4.1	5.6	6.4	6.4	6.6	6.1	4.8	4.1	3.1	3.8
85°	2.0	3.3	4.8	5.6	5.6	5.8	5.3	4.1	3.3	2.3	3.1
85.5°	1.5	2.8	4.3	5.1	5.1	5.1	4.8	3.6	2.8	2.0	2.5
86°	1.3	2.3	3.6	4.3	4.3	4.6	4.1	3.1	2.0	1.5	2.0
86.5°	1.0	1.8	3.1	3.8	3.8	3.8	3.6	2.5	1.8	1.3	1.5
87°	0.8	1.5	2.5	3.1	3.1	3.3	3.1	2.0	1.3	1.0	1.0
87.5°	0.5	1.3	2.0	2.5	2.5	2.5	2.5	1.8	1.0	0.8	0.8
88°	0.3	0.8	1.5	2.0	2.0	2.0	1.8	1.3	0.8	0.3	0.3
88.5°	0.0	0.5	1.0	1.5	1.5	1.5	1.3	1.0	0.5	0.0	0.0



TEST NUMBER: P776098
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776098

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6
0.5°	1645.3	1646.1	1646.4	1644.8	1644.1	1644.8
1°	1644.3	1645.1	1645.6	1644.6	1644.1	1645.3
1.5°	1643.1	1643.8	1644.8	1644.1	1643.8	1645.3
2°	1641.5	1642.8	1643.6	1643.3	1643.3	1645.1
2.5°	1640.0	1641.3	1642.5	1642.5	1642.8	1644.8
3°	1638.2	1639.7	1641.3	1641.5	1642.3	1644.6
3.5°	1636.4	1638.2	1639.7	1640.5	1641.5	1644.3
4°	1634.7	1636.2	1638.2	1639.2	1640.8	1643.8
4.5°	1632.4	1634.4	1636.4	1637.7	1639.7	1643.1
5°	1630.1	1632.4	1634.4	1636.2	1638.5	1642.3
5.5°	1627.5	1629.8	1632.4	1634.7	1637.2	1641.5
6°	1625.0	1627.5	1630.1	1632.6	1635.7	1640.3
6.5°	1622.5	1625.0	1627.8	1630.8	1634.2	1639.0
7°	1619.1	1621.9	1625.3	1628.6	1632.1	1637.7
7.5°	1616.4	1619.1	1622.7	1626.3	1630.3	1636.2
8°	1613.0	1615.8	1619.9	1623.7	1628.3	1634.4
8.5°	1609.7	1612.8	1616.9	1621.2	1626.3	1632.6
9°	1606.2	1609.2	1613.6	1618.4	1623.7	1630.3
9.5°	1602.4	1605.7	1610.2	1615.3	1621.2	1628.3
10°	1598.5	1601.9	1606.7	1612.3	1618.4	1626.0
10.5°	1594.5	1598.0	1603.1	1608.7	1615.6	1623.5
11°	1589.9	1593.7	1599.1	1605.2	1612.5	1620.7
11.5°	1585.6	1589.4	1595.0	1601.3	1609.2	1617.9
12°	1580.7	1584.8	1590.4	1597.5	1605.7	1614.6
12.5°	1576.2	1580.0	1586.1	1593.5	1602.1	1611.3
13°	1570.8	1575.2	1581.3	1589.1	1598.3	1608.0
13.5°	1565.5	1570.1	1576.4	1584.6	1594.2	1604.4
14°	1559.9	1564.7	1571.3	1579.7	1589.9	1600.6
14.5°	1554.3	1558.9	1566.0	1574.9	1585.6	1596.5
15°	1548.5	1553.3	1560.7	1569.8	1581.0	1592.2
15.5°	1542.3	1547.4	1554.8	1564.5	1575.9	1587.9
16°	1536.0	1541.1	1548.7	1558.9	1571.1	1583.0
16.5°	1529.6	1535.0	1542.6	1553.3	1565.7	1578.2
17°	1522.8	1528.4	1536.5	1547.2	1560.1	1572.9
17.5°	1516.2	1521.5	1529.9	1541.1	1554.3	1567.8
18°	1508.5	1514.6	1523.3	1535.0	1548.5	1562.2
18.5°	1501.4	1507.5	1516.4	1528.1	1542.1	1556.3
19°	1493.8	1500.1	1509.3	1521.2	1535.7	1550.5
19.5°	1485.9	1492.8	1501.9	1514.4	1529.4	1544.4
20°	1477.8	1485.1	1494.5	1507.3	1522.5	1538.0
20.5°	1469.6	1477.2	1486.9	1499.9	1515.4	1531.4
21°	1461.2	1469.1	1478.8	1492.0	1508.0	1524.3

TEST NUMBER: P776098

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1434.5	1443.4	1453.6	1467.6	1484.6	1502.2
23°	1425.1	1434.3	1444.7	1458.9	1476.0	1494.0
23.5°	1415.5	1424.6	1435.8	1450.0	1467.3	1485.6
24°	1405.8	1415.2	1426.1	1440.6	1458.4	1477.2
24.5°	1395.9	1405.5	1416.7	1431.2	1449.3	1468.6
25°	1385.7	1395.6	1406.8	1421.6	1439.9	1459.7
25.5°	1375.0	1385.2	1396.9	1411.6	1430.2	1450.3
26°	1363.3	1374.5	1385.7	1401.0	1420.3	1440.9
26.5°	1351.4	1362.8	1374.3	1389.5	1410.1	1431.0
27°	1338.4	1350.9	1361.8	1377.8	1399.4	1421.0
27.5°	1324.7	1337.4	1349.1	1365.6	1388.0	1409.9
28°	1310.4	1323.9	1335.6	1352.1	1376.5	1399.4
28.5°	1295.7	1308.6	1321.4	1338.9	1364.1	1387.5
29°	1279.9	1293.4	1306.6	1325.2	1351.4	1376.0
29.5°	1263.9	1276.9	1291.1	1310.7	1338.1	1363.6
30°	1246.6	1260.1	1274.8	1295.2	1324.2	1351.1
30.5°	1228.8	1241.0	1257.8	1280.2	1309.9	1337.1
31°	1210.2	1222.9	1239.5	1263.9	1294.4	1323.6
31.5°	1191.7	1203.1	1221.2	1247.6	1278.6	1308.6
32°	1171.6	1182.5	1202.1	1230.1	1262.4	1293.1
32.5°	1151.2	1160.9	1182.5	1213.3	1245.3	1276.6
33°	1130.1	1141.3	1162.4	1195.5	1227.3	1260.1
33.5°	1108.3	1120.2	1141.6	1176.7	1209.2	1241.8
34°	1086.6	1098.8	1121.0	1156.3	1190.4	1222.2
34.5°	1064.5	1076.7	1099.6	1136.5	1170.3	1201.3
35°	1041.6	1055.9	1078.5	1115.4	1149.4	1180.2
35.5°	1018.7	1034.5	1057.4	1093.5	1128.1	1158.1
36°	995.1	1012.6	1035.0	1069.1	1105.2	1134.2
36.5°	971.4	989.5	1012.9	1046.2	1081.3	1109.5
37°	946.8	965.8	989.5	1021.3	1055.4	1084.6
37.5°	921.6	941.7	964.8	995.9	1029.4	1058.7
38°	895.7	916.0	939.4	968.9	1000.7	1032.2
38.5°	868.2	888.8	912.9	940.9	972.7	1005.3
39°	840.2	860.3	885.7	911.4	941.4	978.3
39.5°	811.7	830.8	856.2	881.4	911.2	950.6
40°	782.7	801.3	827.0	850.4	879.4	922.4
40.5°	754.3	772.3	796.2	819.4	848.6	893.9
41°	725.3	743.8	766.0	787.8	817.6	864.6
41.5°	696.3	716.1	735.7	756.8	786.3	834.9
42°	668.1	688.7	705.7	725.8	754.8	804.4
42.5°	639.8	661.2	675.7	694.8	724.8	773.6
43°	611.9	634.2	646.7	663.2	694.2	743.1
43.5°	583.9	605.7	617.7	633.2	664.2	713.3

TEST NUMBER: P776098

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	505.8	524.1	532.0	545.2	578.3	626.9
45.5°	481.4	497.4	504.5	517.8	551.8	599.1
46°	457.7	472.0	477.3	491.3	525.9	570.9
46.5°	433.6	447.1	450.9	466.1	500.2	542.7
47°	411.5	422.7	425.7	440.7	475.0	514.7
47.5°	390.4	398.2	401.8	417.6	450.4	488.3
48°	370.5	375.1	378.7	394.9	426.2	462.1
48.5°	350.2	353.0	357.0	373.3	403.6	436.4
49°	331.9	332.1	336.4	353.0	380.7	412.0
49.5°	314.3	312.3	317.1	333.6	359.1	388.8
50°	297.8	294.0	299.1	314.8	337.7	365.7
50.5°	281.5	276.7	282.0	297.0	318.1	343.8
51°	267.3	261.7	266.3	280.8	299.1	322.7
51.5°	253.3	248.2	252.3	265.5	281.5	302.6
52°	240.1	236.0	239.3	251.0	265.2	283.5
52.5°	229.1	224.8	227.1	237.3	249.7	265.5
53°	218.4	214.4	216.2	224.5	235.2	248.5
53.5°	207.8	204.5	205.5	212.6	221.5	233.2
54°	196.8	195.3	195.8	201.4	209.0	219.0
54.5°	186.1	186.4	186.7	191.0	197.6	206.5
55°	177.0	177.8	177.8	181.3	187.2	195.1
55.5°	168.9	169.6	169.6	172.2	177.2	184.4
56°	161.5	162.2	162.2	164.3	168.3	175.0
56.5°	154.9	155.9	155.6	157.4	161.0	166.6
57°	148.5	149.3	149.3	150.8	154.4	159.4
57.5°	142.2	142.9	142.7	144.2	147.8	152.6
58°	135.8	136.6	136.3	137.6	141.1	146.0
58.5°	129.4	130.2	129.7	131.2	134.3	139.4
59°	123.6	124.1	123.8	124.9	127.7	132.5
59.5°	117.7	118.5	118.0	118.8	121.6	126.1
60°	111.9	112.7	112.1	113.2	115.7	119.8
60.5°	106.8	107.3	106.8	107.6	109.9	113.4
61°	101.7	102.2	101.5	102.2	104.3	107.6
61.5°	96.6	97.1	96.6	97.4	99.2	102.0
62°	92.1	92.6	91.8	92.6	94.3	96.6
62.5°	87.5	88.5	87.5	88.2	89.8	91.3
63°	83.2	84.4	83.4	84.2	85.4	86.7
63.5°	79.1	80.1	79.3	79.9	81.1	82.4
64°	75.3	76.0	75.3	75.8	76.8	77.8
64.5°	71.5	71.7	71.2	71.5	72.5	73.5
65°	67.9	68.2	67.6	67.9	68.7	69.2
65.5°	64.3	64.6	64.1	64.3	64.8	65.1
66°	61.0	61.3	60.8	61.0	61.3	61.5



TEST NUMBER: P776098

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	52.1	52.4	51.9	51.9	51.9	51.6
68°	49.3	49.6	49.1	49.3	48.8	48.8
68.5°	46.8	47.0	46.5	46.5	46.3	45.8
69°	44.2	44.5	44.0	44.2	43.5	43.2
69.5°	42.0	42.2	41.7	41.7	41.2	40.7
70°	39.7	39.9	39.4	39.4	38.7	38.4
70.5°	37.4	37.6	37.1	37.1	36.4	36.1
71°	35.3	35.6	35.1	35.1	34.3	33.8
71.5°	33.3	33.6	33.1	33.1	32.3	31.8
72°	31.5	31.5	31.3	31.3	30.3	29.8
72.5°	29.8	29.8	29.5	29.5	28.5	28.0
73°	28.0	28.0	27.7	27.7	26.7	26.2
73.5°	26.2	26.4	25.9	25.9	24.9	24.7
74°	24.7	24.7	24.4	24.4	23.4	23.1
74.5°	23.1	23.1	22.9	22.9	21.9	21.6
75°	21.9	21.9	21.6	21.4	20.6	20.1
75.5°	20.6	20.3	20.1	20.1	19.1	18.8
76°	19.3	19.1	18.8	18.6	17.8	17.5
76.5°	18.1	17.8	17.5	17.5	16.5	16.3
77°	16.8	16.8	16.5	16.3	15.3	15.0
77.5°	15.5	15.5	15.3	15.0	14.2	14.0
78°	14.2	14.5	14.2	14.0	13.0	13.0
78.5°	13.2	13.5	13.2	13.0	12.0	12.0
79°	12.2	12.5	12.2	12.0	11.2	10.9
79.5°	11.4	11.4	11.2	10.9	10.2	9.9
80°	10.4	10.4	10.4	9.9	9.2	9.2
80.5°	9.4	9.7	9.4	9.2	8.4	8.4
81°	8.6	8.9	8.6	8.4	7.6	7.6
81.5°	7.9	8.1	7.9	7.6	6.6	6.6
82°	7.1	7.4	7.1	6.9	5.8	6.1
82.5°	6.4	6.4	6.4	6.1	5.1	5.3
83°	5.6	5.8	5.6	5.3	4.3	4.6
83.5°	5.1	5.1	4.8	4.6	3.8	4.1
84°	4.3	4.3	4.3	4.1	3.3	3.3
84.5°	3.8	3.8	3.6	3.6	2.5	2.8
85°	3.1	3.1	3.1	3.1	2.3	2.0
85.5°	2.5	2.5	2.5	2.3	1.8	1.5
86°	2.0	2.0	2.0	1.8	1.5	1.3
86.5°	1.5	1.5	1.3	1.3	1.0	1.0
87°	0.8	1.0	0.8	0.8	0.8	0.8
87.5°	0.3	0.5	0.3	0.5	0.5	0.5
88°	0.0	0.0	0.0	0.0	0.3	0.3
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776098

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-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
1121 Highway 74 South
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°	1517.2	1538.0	1546.9	1549.5	1541.1	1529.9	1513.4	1495.0	1479.8	1460.2	1453.6
22°	1509.8	1531.2	1540.6	1542.9	1534.5	1523.0	1506.0	1487.4	1471.9	1451.6	1444.7



44°	684.1	760.1	794.2	800.5	778.2	753.2	726.0	692.7	655.8	589.0	560.5
44.5°	655.3	729.6	762.7	770.0	747.4	722.5	694.2	664.0	628.1	562.8	535.3



66.5°	58.0	65.9	69.4	72.0	71.7	72.2	71.7	69.4	65.1	60.5	59.8
67°	54.7	62.0	65.9	68.2	68.2	68.7	67.9	65.9	61.5	57.2	56.7



89°	0.0	0.3	0.5	1.0	1.0	0.8	0.5	0.3	0.0	0.0
89.5°	0.0	0.0	0.3	0.5	0.5	0.5	0.3	0.0	0.0	0.0

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21.5°	1452.6	1460.7	1470.6	1484.1	1500.4	1517.2
22°	1443.7	1452.1	1462.0	1476.0	1492.8	1509.8



44°	557.4	578.0	589.0	603.7	634.7	684.1
44.5°	531.5	551.1	560.0	574.5	606.3	655.3

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66.5°	58.0	58.2	57.7	58.0	58.0	58.0
67°	54.9	55.2	54.7	54.9	54.9	54.7

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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)