

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: P776099

Luminaire Tested: HCDJBL51525CSD-HCD6TRMW-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776099
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-5000K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

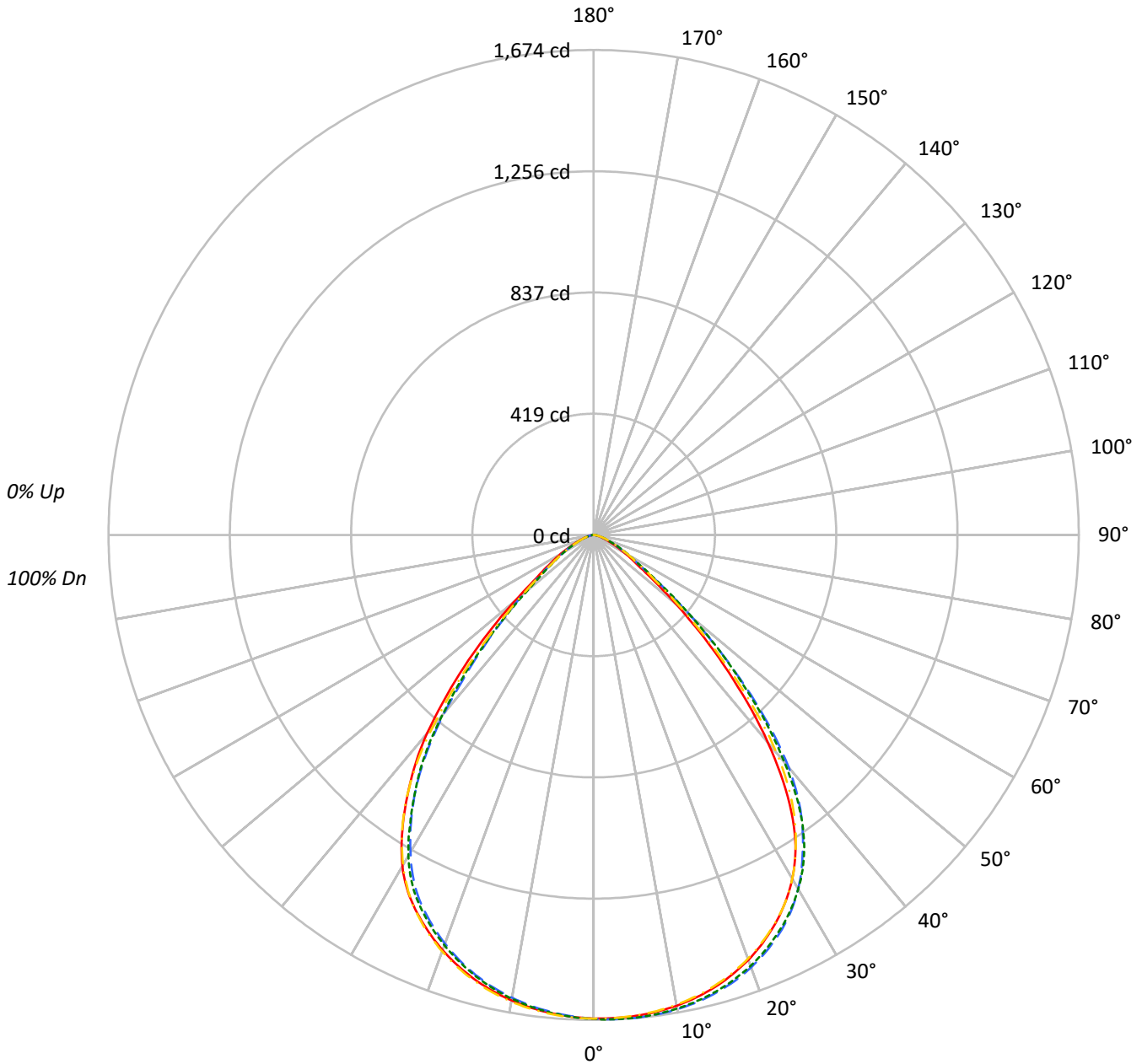
Lumens per Lamp: N/A
Luminaire Lumens: 2790.2 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P776099
CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P776099

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-5000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	91550	91550	91550	91550
5°	91712	92037	91217	91156
10°	91854	92416	90836	90490
15°	91703	92594	90137	89461
20°	91055	92332	88949	87922
25°	89600	91415	87132	85668
30°	86792	89375	83544	80943
35°	80154	84537	75523	71708
40°	66983	73266	64013	58195
45°	49315	56479	47276	41237
50°	31649	38080	30421	25441
55°	18914	22967	19880	17242
60°	13332	15624	14407	12532
65°	9106	11078	10144	8976
70°	6251	8030	7069	6491
75°	4321	5952	5020	4702
80°	2936	4578	3599	3346
85°	1321	3585	2139	1950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 58184 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	5.7
10°-20°	451.9	16.2
20°-30°	671.0	24.0
30°-40°	720.0	25.8
40°-50°	482.6	17.3
50°-60°	196.4	7.0
60°-70°	78.4	2.8
70°-80°	26.8	1.0
80°-90°	4.9	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°	1281.0	45.9
0°-40°	2001.1	71.7
0°-60°	2680.1	96.1
0°-90°	2790.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1670	1670	1670	1670	1670	
5°	1667	1672	1658	1656	1667	159
15°	1616	1632	1588	1576	1616	456
25°	1481	1511	1440	1416	1481	681
35°	1198	1263	1128	1072	1198	737
45°	636	728	610	532	636	491
55°	198	240	208	180	198	191
65°	70	85	78	69	70	72
75°	20	28	24	22	20	23
85°	2	6	3	3	2	3
90°	0	0	0	0	0	



TEST NUMBER: P776099

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0
0.5°	1669.2	1670.0	1671.0	1671.8	1672.0	1671.8	1669.7	1668.2	1668.4	1668.4	1669.2
1°	1669.7	1670.7	1671.8	1672.5	1672.8	1672.3	1669.7	1667.9	1667.6	1667.4	1667.9
1.5°	1669.7	1671.3	1672.5	1673.3	1673.1	1672.3	1669.7	1667.4	1667.1	1666.1	1666.6
2°	1669.4	1671.5	1673.1	1673.8	1673.3	1672.5	1669.4	1666.9	1666.1	1664.8	1665.1
2.5°	1669.2	1671.8	1673.3	1674.1	1673.6	1672.5	1669.2	1666.1	1665.1	1663.5	1663.5
3°	1668.9	1671.8	1673.6	1674.3	1673.6	1672.3	1668.7	1665.3	1664.0	1662.0	1662.0
3.5°	1668.7	1671.8	1673.8	1674.3	1673.6	1672.0	1667.9	1664.3	1662.5	1660.2	1659.9
4°	1668.2	1671.8	1673.6	1674.3	1673.3	1671.5	1667.1	1663.0	1660.9	1658.3	1658.1
4.5°	1667.4	1671.3	1673.6	1674.3	1673.1	1671.0	1666.3	1662.0	1659.4	1656.3	1656.0
5°	1666.6	1671.0	1673.3	1673.8	1672.5	1670.2	1665.1	1660.4	1657.6	1654.2	1653.7
5.5°	1665.8	1670.2	1672.8	1673.6	1672.0	1669.2	1664.0	1658.9	1655.8	1651.9	1651.1
6°	1664.5	1669.7	1672.3	1673.1	1671.3	1668.2	1662.7	1657.1	1653.7	1649.6	1648.8
6.5°	1663.3	1668.7	1671.5	1672.3	1670.2	1667.1	1661.2	1655.3	1651.6	1647.0	1646.0
7°	1662.0	1667.9	1670.7	1671.5	1669.4	1665.8	1659.4	1653.2	1649.3	1644.2	1643.1
7.5°	1660.4	1666.6	1669.7	1670.5	1668.2	1664.3	1657.8	1651.1	1646.7	1641.3	1640.0
8°	1658.6	1665.3	1668.7	1669.4	1666.9	1662.7	1655.8	1648.8	1644.2	1638.2	1636.9
8.5°	1656.8	1664.0	1667.4	1668.2	1665.6	1661.2	1653.7	1646.2	1641.1	1635.1	1633.6
9°	1654.5	1662.5	1666.1	1666.9	1663.8	1659.1	1651.6	1643.6	1638.2	1631.8	1629.7
9.5°	1652.4	1660.7	1664.3	1665.3	1662.0	1657.3	1649.1	1640.8	1635.1	1628.2	1626.1
10°	1650.1	1658.9	1662.7	1663.5	1660.2	1655.3	1646.5	1638.0	1631.8	1624.3	1622.5
10.5°	1647.5	1656.5	1660.7	1661.7	1657.8	1652.7	1643.9	1634.6	1628.4	1620.4	1618.3
11°	1644.7	1654.5	1658.6	1659.6	1655.8	1650.3	1641.1	1631.5	1624.5	1616.5	1614.0
11.5°	1641.8	1651.9	1656.3	1657.6	1653.2	1647.5	1638.0	1627.9	1620.7	1612.2	1609.6
12°	1638.5	1649.3	1654.0	1655.0	1650.9	1644.4	1634.6	1624.3	1616.5	1607.5	1604.9
12.5°	1635.1	1646.2	1651.4	1652.4	1648.0	1641.6	1631.3	1620.4	1612.4	1602.9	1600.0
13°	1631.8	1643.4	1648.8	1649.8	1644.9	1638.2	1627.6	1616.3	1607.8	1598.0	1595.1
13.5°	1628.2	1640.3	1645.7	1646.7	1641.8	1634.9	1623.8	1612.2	1603.1	1592.8	1589.7
14°	1624.3	1637.2	1642.6	1643.6	1638.7	1631.3	1619.9	1607.5	1598.5	1587.4	1584.0
14.5°	1620.2	1633.3	1639.3	1640.5	1635.1	1627.4	1615.5	1602.9	1593.3	1582.0	1578.3
15°	1615.8	1629.7	1635.6	1637.2	1631.5	1623.5	1611.1	1598.0	1588.2	1576.3	1572.4
15.5°	1611.4	1625.6	1631.8	1633.6	1627.4	1619.4	1606.7	1593.3	1582.5	1570.1	1566.2
16°	1606.5	1621.4	1627.9	1629.4	1623.3	1615.0	1602.1	1587.9	1577.1	1563.9	1559.8
16.5°	1601.6	1617.1	1623.8	1625.3	1619.1	1610.3	1597.2	1582.5	1571.1	1557.7	1553.3
17°	1596.2	1612.7	1619.6	1621.2	1614.5	1605.7	1592.0	1576.8	1564.9	1551.0	1546.6
17.5°	1591.0	1607.8	1615.0	1616.5	1609.8	1600.5	1586.6	1571.1	1558.7	1544.0	1539.4
18°	1585.3	1602.6	1610.1	1611.9	1604.7	1595.4	1580.9	1564.9	1552.3	1537.1	1532.2
18.5°	1579.4	1597.4	1605.2	1606.7	1599.5	1590.0	1575.0	1558.7	1545.8	1529.8	1524.7
19°	1573.4	1591.8	1599.8	1601.6	1594.1	1584.3	1569.1	1552.3	1538.9	1522.6	1516.9
19.5°	1567.3	1586.1	1594.3	1596.2	1588.7	1578.3	1562.9	1545.8	1531.9	1514.9	1508.9
20°	1560.8	1580.2	1588.7	1590.7	1582.7	1572.2	1556.4	1538.9	1524.7	1507.1	1500.9
20.5°	1554.1	1574.0	1582.5	1584.8	1576.8	1566.0	1549.7	1531.9	1517.2	1498.6	1492.7
21°	1546.9	1567.5	1576.5	1578.6	1570.3	1559.3	1542.7	1524.7	1509.4	1490.6	1483.9



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CATALOG NUMBER: HCDJBL1525CSD-HCD6TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1524.4	1546.6	1556.2	1559.0	1550.2	1538.3	1520.8	1501.4	1485.4	1464.0	1456.8
23°	1516.2	1539.1	1549.2	1551.8	1542.7	1530.6	1512.8	1493.4	1476.7	1454.7	1447.2
23.5°	1507.6	1531.4	1541.4	1544.3	1535.3	1522.6	1504.5	1485.2	1468.2	1445.4	1437.4
24°	1499.1	1523.4	1534.0	1536.8	1527.5	1514.6	1496.3	1476.4	1459.1	1435.9	1427.4
24.5°	1490.3	1514.9	1525.4	1528.8	1519.5	1506.6	1488.0	1467.6	1449.8	1426.1	1417.3
25°	1481.3	1506.3	1517.4	1520.8	1511.3	1498.1	1479.2	1458.6	1440.5	1416.0	1407.0
25.5°	1471.8	1497.8	1508.7	1512.0	1502.7	1489.3	1470.2	1449.6	1431.0	1405.4	1396.2
26°	1462.2	1488.8	1499.9	1503.5	1494.0	1480.5	1461.2	1440.0	1420.9	1394.3	1384.5
26.5°	1452.2	1479.2	1490.1	1494.5	1484.9	1471.0	1451.4	1430.2	1410.6	1382.2	1372.2
27°	1442.1	1469.2	1480.8	1484.9	1475.4	1461.4	1441.3	1419.6	1399.8	1369.6	1359.0
27.5°	1430.7	1459.1	1470.5	1475.1	1465.6	1451.6	1430.7	1408.5	1388.4	1356.7	1345.1
28°	1420.2	1448.3	1459.6	1464.8	1455.5	1441.3	1419.6	1396.9	1376.0	1343.0	1330.3
28.5°	1408.0	1436.9	1447.8	1454.0	1445.7	1430.7	1408.3	1385.1	1363.1	1328.8	1315.1
29°	1396.4	1425.1	1436.4	1442.6	1434.6	1419.9	1396.2	1372.2	1349.7	1313.1	1298.6
29.5°	1383.8	1412.9	1424.0	1430.7	1423.5	1408.3	1383.8	1359.0	1335.2	1297.3	1281.8
30°	1371.1	1400.3	1411.4	1418.6	1411.9	1396.7	1370.3	1344.8	1319.8	1281.1	1264.5
30.5°	1356.9	1386.9	1397.7	1406.0	1400.3	1383.8	1356.7	1329.8	1304.0	1264.0	1247.0
31°	1343.2	1372.9	1384.3	1392.8	1387.6	1370.9	1342.7	1314.6	1287.0	1246.0	1228.4
31.5°	1328.0	1358.7	1369.8	1378.6	1374.5	1357.4	1327.8	1298.6	1269.4	1227.4	1210.6
32°	1312.3	1343.5	1354.6	1364.7	1361.1	1343.0	1312.8	1281.3	1251.1	1208.5	1191.8
32.5°	1295.5	1327.8	1339.4	1349.4	1346.6	1328.5	1296.8	1263.8	1231.8	1188.7	1172.9
33°	1278.7	1311.5	1323.6	1334.2	1331.6	1313.3	1280.5	1245.4	1212.1	1168.5	1153.1
33.5°	1260.1	1295.2	1307.6	1318.2	1315.9	1297.1	1264.0	1226.9	1191.8	1147.6	1133.7
34°	1240.3	1278.0	1291.6	1301.7	1299.6	1281.1	1247.0	1207.2	1171.1	1125.7	1112.3
34.5°	1219.1	1260.9	1274.9	1285.2	1281.8	1262.7	1229.4	1186.6	1150.2	1104.0	1091.9
35°	1197.7	1242.1	1257.6	1267.4	1263.2	1244.9	1210.9	1166.2	1128.5	1081.8	1069.7
35.5°	1175.2	1223.5	1240.0	1249.6	1244.1	1226.1	1192.3	1146.3	1107.6	1059.1	1047.0
36°	1151.0	1203.9	1222.5	1231.2	1223.8	1207.2	1172.7	1124.7	1086.0	1035.9	1022.7
36.5°	1126.0	1184.3	1203.4	1212.7	1202.1	1186.3	1152.0	1104.0	1064.3	1012.1	998.5
37°	1100.7	1162.9	1184.3	1193.1	1179.4	1164.9	1130.1	1082.1	1041.6	988.1	972.4
37.5°	1074.3	1140.9	1163.4	1172.1	1155.4	1142.0	1107.6	1061.2	1019.1	964.4	945.8
38°	1047.5	1117.4	1142.7	1151.0	1130.1	1119.2	1084.4	1038.2	996.1	938.1	919.0
38.5°	1020.1	1093.7	1120.3	1128.3	1104.5	1093.7	1060.4	1016.3	972.7	911.5	891.4
39°	992.8	1068.4	1096.8	1105.1	1078.7	1067.9	1035.4	992.0	948.1	884.1	861.7
39.5°	964.7	1041.3	1072.0	1080.3	1051.6	1040.5	1009.3	968.0	921.8	857.3	832.0
40°	936.0	1012.7	1046.7	1054.0	1023.8	1011.9	982.2	941.2	894.5	827.4	801.3
40.5°	907.1	983.2	1019.6	1026.1	996.7	981.7	953.8	914.3	865.8	798.2	770.1
41°	877.4	953.0	991.0	996.9	968.5	951.5	924.7	885.4	836.4	769.6	739.4
41.5°	847.2	922.6	962.6	966.7	940.4	921.0	893.9	856.8	807.2	740.9	708.1
42°	816.3	891.6	932.4	935.5	911.0	889.8	861.9	825.6	777.3	711.0	679.0
42.5°	785.0	861.7	902.0	904.5	882.1	857.8	831.0	795.4	749.2	682.8	650.6
43°	754.1	831.5	869.7	874.1	852.4	827.6	799.8	764.1	721.0	653.9	622.7
43.5°	723.9	801.6	838.5	843.1	820.9	795.6	768.8	733.4	693.2	626.3	595.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	636.1	710.5	741.7	750.5	728.5	701.7	674.3	644.4	609.8	544.3	517.7
45.5°	608.0	680.0	708.7	720.0	697.8	671.2	643.6	615.2	582.2	518.7	493.7
46°	579.4	650.1	675.9	689.8	669.2	641.0	612.4	586.3	555.1	493.7	470.5
46.5°	550.7	620.4	644.7	659.9	640.3	612.1	582.7	557.4	528.0	469.9	447.5
47°	522.3	589.9	613.2	629.2	611.6	583.8	552.8	528.0	501.4	445.7	426.1
47.5°	495.5	561.0	582.7	599.0	582.5	556.1	524.7	500.1	475.9	423.7	405.4
48°	468.9	532.1	552.8	569.8	554.1	529.6	497.0	473.0	450.8	402.1	385.8
48.5°	442.8	504.0	524.7	540.9	526.5	504.0	471.2	446.7	426.6	381.4	366.2
49°	418.1	476.4	496.8	512.3	499.4	478.2	445.7	421.2	401.8	361.3	348.1
49.5°	394.6	449.0	469.9	485.2	472.5	452.9	421.7	396.9	378.6	342.2	330.6
50°	371.1	422.7	442.8	457.8	446.5	428.7	397.9	374.2	356.7	324.1	313.8
50.5°	348.9	397.2	417.8	431.2	420.9	404.9	376.3	352.5	335.0	307.1	297.8
51°	327.5	372.4	393.3	404.9	397.2	382.2	355.4	332.1	314.8	291.1	282.6
51.5°	307.1	348.7	369.8	380.9	373.7	360.5	336.0	313.3	296.3	275.6	267.9
52°	287.7	326.5	347.1	357.4	351.7	338.8	317.2	295.2	279.5	260.9	254.2
52.5°	269.4	305.8	325.7	334.7	329.6	318.5	299.6	278.7	263.7	247.2	241.3
53°	252.1	286.5	305.3	313.0	308.9	299.9	282.8	263.7	250.3	234.8	230.2
53.5°	236.6	268.4	285.9	293.4	289.3	282.1	267.4	249.8	237.9	224.0	218.8
54°	222.2	251.4	268.1	274.8	270.7	265.3	253.2	237.2	227.9	212.9	207.7
54.5°	209.6	236.1	250.6	257.6	253.4	249.8	239.7	226.8	217.8	202.1	196.6
55°	197.9	222.2	234.6	241.6	240.3	237.2	228.4	216.8	208.0	191.2	185.3
55.5°	187.1	209.6	220.1	227.1	227.4	224.8	217.3	206.5	197.9	181.9	176.3
56°	177.6	197.4	206.7	213.7	214.2	212.4	205.9	196.1	187.9	173.4	168.0
56.5°	169.0	186.3	194.8	201.3	201.0	200.0	194.6	185.8	179.4	165.4	160.8
57°	161.8	176.5	184.0	189.9	188.1	187.6	183.5	177.3	171.4	159.0	154.3
57.5°	154.8	168.0	174.2	179.6	178.6	178.3	174.5	169.0	163.9	152.3	147.9
58°	148.1	160.8	166.2	170.6	169.8	169.6	166.5	162.1	157.4	145.8	141.4
58.5°	141.4	153.8	159.2	163.1	162.8	162.6	159.7	155.6	150.7	139.4	134.7
59°	134.5	147.1	152.5	156.4	155.9	155.9	153.0	148.9	144.3	132.9	128.5
59.5°	128.0	140.1	145.6	149.7	149.2	149.2	146.6	142.2	137.6	126.7	122.6
60°	121.6	133.4	138.6	142.7	142.5	142.2	139.6	136.0	131.4	120.8	116.9
60.5°	115.1	126.7	131.9	136.0	135.5	135.5	133.2	129.6	125.4	115.1	111.2
61°	109.2	120.5	125.4	129.3	129.0	129.0	127.0	123.6	119.5	109.7	105.8
61.5°	103.5	114.3	119.2	122.8	122.3	122.8	120.8	117.7	113.6	104.5	100.9
62°	98.1	108.6	113.0	116.6	116.4	116.6	115.1	112.0	107.9	99.4	96.0
62.5°	92.6	103.2	107.4	110.7	110.5	111.0	109.4	106.6	102.5	94.5	91.4
63°	88.0	97.8	101.9	105.0	105.0	105.3	104.0	101.4	97.3	89.5	86.7
63.5°	83.6	92.1	96.8	99.9	99.6	100.1	98.8	96.5	92.1	84.9	82.6
64°	79.0	87.7	92.4	94.7	94.7	95.0	93.9	91.9	87.2	80.5	78.5
64.5°	74.6	83.4	87.7	90.3	90.1	90.3	89.3	87.0	82.6	76.4	74.6
65°	70.2	79.0	83.4	85.9	85.4	85.9	84.9	82.6	78.2	72.5	70.7
65.5°	66.1	74.6	79.0	81.5	81.0	81.5	80.5	78.5	74.1	68.6	67.4
66°	62.5	70.5	74.6	77.4	76.9	77.4	76.6	74.3	69.9	64.8	63.7



TEST NUMBER: P776099

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	52.4	59.6	63.5	65.5	65.5	66.1	65.5	63.2	59.1	55.0	54.5
68°	49.5	56.5	60.1	62.2	62.2	62.7	62.2	59.9	55.7	51.9	51.6
68.5°	46.5	53.2	56.8	58.8	58.8	59.4	58.8	56.8	52.6	49.0	48.8
69°	43.9	50.3	53.9	55.7	55.7	56.3	56.0	53.7	49.8	46.2	46.2
69.5°	41.3	47.5	50.8	52.6	52.9	53.2	52.9	50.6	47.0	43.6	43.6
70°	39.0	44.6	48.3	50.1	50.1	50.6	50.1	48.0	44.1	41.3	41.3
70.5°	36.6	42.3	45.4	47.2	47.2	47.7	47.5	45.2	41.5	38.7	39.0
71°	34.3	39.7	43.1	44.6	44.9	45.2	44.9	42.8	39.2	36.6	36.9
71.5°	32.3	37.4	40.8	42.3	42.3	42.8	42.6	40.3	36.9	34.3	34.8
72°	30.2	35.4	38.5	40.0	40.0	40.5	40.3	37.9	34.8	32.3	32.8
72.5°	28.4	33.3	36.1	37.7	37.7	38.2	37.9	35.9	32.8	30.5	31.0
73°	26.6	31.2	34.1	35.6	35.6	36.1	35.9	33.5	30.7	28.6	29.2
73.5°	25.0	29.2	32.3	33.5	33.8	34.1	33.8	31.7	28.9	26.8	27.4
74°	23.5	27.4	30.2	31.7	31.7	32.3	31.7	29.7	27.1	25.0	25.8
74.5°	21.9	25.8	28.4	29.9	29.9	30.2	29.9	27.9	25.3	23.5	24.0
75°	20.4	24.3	26.8	28.1	28.1	28.6	28.1	26.3	23.7	22.2	22.5
75.5°	19.1	22.7	25.0	26.3	26.6	26.8	26.6	24.5	22.2	20.6	21.2
76°	17.8	21.2	23.5	24.8	25.0	25.3	24.8	23.0	20.9	19.4	19.9
76.5°	16.5	19.6	22.2	23.2	23.5	23.7	23.2	21.7	19.6	17.8	18.6
77°	15.2	18.3	20.6	21.9	21.9	22.2	21.9	20.4	18.1	16.5	17.3
77.5°	14.2	17.0	19.4	20.4	20.6	20.9	20.6	18.8	16.8	15.2	16.0
78°	13.2	15.7	18.1	19.1	19.4	19.6	19.4	17.5	15.5	14.2	14.7
78.5°	12.1	14.7	16.8	17.8	18.1	18.3	17.8	16.3	14.5	13.2	13.7
79°	11.1	13.7	15.5	16.8	16.8	17.0	16.5	15.0	13.4	12.1	12.6
79.5°	10.1	12.6	14.5	15.5	15.5	15.7	15.5	13.9	12.4	11.1	11.6
80°	9.3	11.6	13.4	14.5	14.5	14.7	14.2	12.6	11.4	10.1	10.6
80.5°	8.5	10.6	12.4	13.4	13.4	13.7	13.2	11.6	10.3	9.3	9.8
81°	7.7	9.5	11.4	12.4	12.4	12.6	12.1	10.8	9.5	8.3	8.8
81.5°	6.7	8.8	10.3	11.4	11.4	11.6	11.4	9.8	8.5	7.5	8.0
82°	6.2	8.0	9.5	10.6	10.6	10.6	10.3	8.8	7.7	6.7	7.2
82.5°	5.4	7.0	8.8	9.5	9.5	9.8	9.5	8.0	7.0	5.9	6.5
83°	4.6	6.2	8.0	8.8	8.8	9.0	8.5	7.2	6.2	5.2	5.7
83.5°	4.1	5.4	7.2	8.0	8.0	8.3	7.7	6.5	5.4	4.4	4.9
84°	3.4	4.9	6.2	7.2	7.2	7.5	7.0	5.7	4.6	3.6	4.4
84.5°	2.8	4.1	5.7	6.5	6.5	6.7	6.2	4.9	4.1	3.1	3.9
85°	2.1	3.4	4.9	5.7	5.7	5.9	5.4	4.1	3.4	2.3	3.1
85.5°	1.5	2.8	4.4	5.2	5.2	5.2	4.9	3.6	2.8	2.1	2.6
86°	1.3	2.3	3.6	4.4	4.4	4.6	4.1	3.1	2.1	1.5	2.1
86.5°	1.0	1.8	3.1	3.9	3.9	3.9	3.6	2.6	1.8	1.3	1.5
87°	0.8	1.5	2.6	3.1	3.1	3.4	3.1	2.1	1.3	1.0	1.0
87.5°	0.5	1.3	2.1	2.6	2.6	2.6	2.6	1.8	1.0	0.8	0.8
88°	0.3	0.8	1.5	2.1	2.1	2.1	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: P776099
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-5000K

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: P776099

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0
0.5°	1669.7	1670.5	1670.7	1669.2	1668.4	1669.2
1°	1668.7	1669.4	1670.0	1668.9	1668.4	1669.7
1.5°	1667.4	1668.2	1669.2	1668.4	1668.2	1669.7
2°	1665.8	1667.1	1667.9	1667.6	1667.6	1669.4
2.5°	1664.3	1665.6	1666.9	1666.9	1667.1	1669.2
3°	1662.5	1664.0	1665.6	1665.8	1666.6	1668.9
3.5°	1660.7	1662.5	1664.0	1664.8	1665.8	1668.7
4°	1658.9	1660.4	1662.5	1663.5	1665.1	1668.2
4.5°	1656.5	1658.6	1660.7	1662.0	1664.0	1667.4
5°	1654.2	1656.5	1658.6	1660.4	1662.7	1666.6
5.5°	1651.6	1654.0	1656.5	1658.9	1661.4	1665.8
6°	1649.1	1651.6	1654.2	1656.8	1659.9	1664.5
6.5°	1646.5	1649.1	1651.9	1655.0	1658.3	1663.3
7°	1643.1	1646.0	1649.3	1652.7	1656.3	1662.0
7.5°	1640.3	1643.1	1646.7	1650.3	1654.5	1660.4
8°	1636.9	1639.8	1643.9	1647.8	1652.4	1658.6
8.5°	1633.6	1636.7	1640.8	1645.2	1650.3	1656.8
9°	1630.0	1633.1	1637.4	1642.3	1647.8	1654.5
9.5°	1626.1	1629.4	1634.1	1639.3	1645.2	1652.4
10°	1622.2	1625.6	1630.5	1636.2	1642.3	1650.1
10.5°	1618.1	1621.7	1626.9	1632.5	1639.5	1647.5
11°	1613.4	1617.3	1622.7	1628.9	1636.4	1644.7
11.5°	1609.1	1612.9	1618.6	1625.1	1633.1	1641.8
12°	1604.2	1608.3	1614.0	1621.2	1629.4	1638.5
12.5°	1599.5	1603.4	1609.6	1617.1	1625.8	1635.1
13°	1594.1	1598.5	1604.7	1612.7	1622.0	1631.8
13.5°	1588.7	1593.3	1599.8	1608.0	1617.8	1628.2
14°	1583.0	1587.9	1594.6	1603.1	1613.4	1624.3
14.5°	1577.3	1582.0	1589.2	1598.2	1609.1	1620.2
15°	1571.4	1576.3	1583.8	1593.1	1604.4	1615.8
15.5°	1565.2	1570.3	1577.8	1587.6	1599.3	1611.4
16°	1558.7	1563.9	1571.6	1582.0	1594.3	1606.5
16.5°	1552.3	1557.7	1565.4	1576.3	1588.9	1601.6
17°	1545.3	1551.0	1559.3	1570.1	1583.3	1596.2
17.5°	1538.6	1544.0	1552.5	1563.9	1577.3	1591.0
18°	1530.9	1537.1	1545.8	1557.7	1571.4	1585.3
18.5°	1523.6	1529.8	1538.9	1550.7	1564.9	1579.4
19°	1515.9	1522.3	1531.6	1543.8	1558.5	1573.4
19.5°	1507.9	1514.9	1524.2	1536.8	1552.0	1567.3
20°	1499.6	1507.1	1516.7	1529.6	1545.1	1560.8
20.5°	1491.4	1499.1	1508.9	1522.1	1537.8	1554.1
21°	1482.9	1490.9	1500.7	1514.1	1530.3	1546.9

TEST NUMBER: P776099

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1455.8	1464.8	1475.1	1489.3	1506.6	1524.4
23°	1446.2	1455.5	1466.1	1480.5	1497.8	1516.2
23.5°	1436.4	1445.7	1457.1	1471.5	1489.1	1507.6
24°	1426.6	1436.2	1447.2	1462.0	1480.0	1499.1
24.5°	1416.5	1426.3	1437.7	1452.4	1470.7	1490.3
25°	1406.2	1416.3	1427.6	1442.6	1461.2	1481.3
25.5°	1395.4	1405.7	1417.6	1432.5	1451.4	1471.8
26°	1383.5	1394.9	1406.2	1421.7	1441.3	1462.2
26.5°	1371.4	1383.0	1394.6	1410.1	1431.0	1452.2
27°	1358.2	1370.9	1382.0	1398.2	1420.2	1442.1
27.5°	1344.3	1357.2	1369.1	1385.8	1408.5	1430.7
28°	1329.8	1343.5	1355.4	1372.2	1396.9	1420.2
28.5°	1314.9	1328.0	1340.9	1358.7	1384.3	1408.0
29°	1298.9	1312.5	1326.0	1344.8	1371.4	1396.4
29.5°	1282.6	1295.8	1310.2	1330.1	1358.0	1383.8
30°	1265.1	1278.7	1293.7	1314.3	1343.8	1371.1
30.5°	1247.0	1259.4	1276.4	1299.1	1329.3	1356.9
31°	1228.1	1241.1	1257.8	1282.6	1313.6	1343.2
31.5°	1209.3	1220.9	1239.2	1266.1	1297.6	1328.0
32°	1188.9	1200.0	1219.9	1248.3	1281.1	1312.3
32.5°	1168.3	1178.1	1200.0	1231.2	1263.8	1295.5
33°	1146.9	1158.2	1179.6	1213.2	1245.4	1278.7
33.5°	1124.7	1136.8	1158.5	1194.1	1227.1	1260.1
34°	1102.7	1115.1	1137.6	1173.4	1208.0	1240.3
34.5°	1080.3	1092.7	1115.9	1153.3	1187.6	1219.1
35°	1057.0	1071.5	1094.5	1131.9	1166.5	1197.7
35.5°	1033.8	1049.8	1073.0	1109.7	1144.8	1175.2
36°	1009.8	1027.6	1050.3	1084.9	1121.6	1151.0
36.5°	985.8	1004.1	1027.9	1061.7	1097.3	1126.0
37°	960.8	980.1	1004.1	1036.4	1071.0	1100.7
37.5°	935.2	955.6	979.1	1010.6	1044.7	1074.3
38°	908.9	929.6	953.3	983.2	1015.5	1047.5
38.5°	881.0	902.0	926.5	954.9	987.1	1020.1
39°	852.7	873.0	898.9	924.9	955.4	992.8
39.5°	823.8	843.1	868.9	894.5	924.7	964.7
40°	794.3	813.2	839.2	863.0	892.4	936.0
40.5°	765.4	783.8	808.0	831.5	861.2	907.1
41°	736.0	754.9	777.3	799.5	829.7	877.4
41.5°	706.6	726.7	746.6	768.0	797.9	847.2
42°	677.9	698.8	716.1	736.5	765.9	816.3
42.5°	649.3	671.0	685.7	705.0	735.5	785.0
43°	620.9	643.6	656.3	673.0	704.5	754.1
43.5°	592.5	614.7	626.8	642.6	674.1	723.9



TEST NUMBER: P776099

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	513.3	531.9	539.9	553.3	586.8	636.1
45.5°	488.5	504.8	512.0	525.4	560.0	608.0
46°	464.5	479.0	484.4	498.6	533.7	579.4
46.5°	440.0	453.7	457.6	473.0	507.6	550.7
47°	417.6	428.9	432.0	447.2	482.1	522.3
47.5°	396.1	404.1	407.7	423.7	457.0	495.5
48°	376.0	380.7	384.3	400.8	432.5	468.9
48.5°	355.4	358.2	362.3	378.8	409.6	442.8
49°	336.8	337.0	341.4	358.2	386.3	418.1
49.5°	319.0	316.9	321.8	338.6	364.4	394.6
50°	302.2	298.3	303.5	319.5	342.7	371.1
50.5°	285.7	280.8	286.2	301.4	322.8	348.9
51°	271.2	265.6	270.2	284.9	303.5	327.5
51.5°	257.0	251.9	256.0	269.4	285.7	307.1
52°	243.6	239.5	242.8	254.7	269.2	287.7
52.5°	232.5	228.1	230.5	240.8	253.4	269.4
53°	221.7	217.6	219.4	227.9	238.7	252.1
53.5°	210.8	207.5	208.5	215.7	224.8	236.6
54°	199.7	198.2	198.7	204.4	212.1	222.2
54.5°	188.9	189.2	189.4	193.8	200.5	209.6
55°	179.6	180.4	180.4	184.0	189.9	197.9
55.5°	171.4	172.1	172.1	174.7	179.9	187.1
56°	163.9	164.6	164.6	166.7	170.8	177.6
56.5°	157.2	158.2	157.9	159.7	163.4	169.0
57°	150.7	151.5	151.5	153.0	156.6	161.8
57.5°	144.3	145.0	144.8	146.3	149.9	154.8
58°	137.8	138.6	138.3	139.6	143.2	148.1
58.5°	131.4	132.1	131.6	133.2	136.3	141.4
59°	125.4	125.9	125.7	126.7	129.6	134.5
59.5°	119.5	120.3	119.7	120.5	123.4	128.0
60°	113.6	114.3	113.8	114.8	117.4	121.6
60.5°	108.4	108.9	108.4	109.2	111.5	115.1
61°	103.2	103.7	103.0	103.7	105.8	109.2
61.5°	98.1	98.6	98.1	98.8	100.6	103.5
62°	93.4	93.9	93.2	93.9	95.7	98.1
62.5°	88.8	89.8	88.8	89.5	91.1	92.6
63°	84.4	85.7	84.6	85.4	86.7	88.0
63.5°	80.3	81.3	80.5	81.0	82.3	83.6
64°	76.4	77.2	76.4	76.9	77.9	79.0
64.5°	72.5	72.8	72.3	72.5	73.5	74.6
65°	68.9	69.2	68.6	68.9	69.7	70.2
65.5°	65.3	65.5	65.0	65.3	65.8	66.1
66°	61.9	62.2	61.7	61.9	62.2	62.5



TEST NUMBER: P776099

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	52.9	53.2	52.6	52.6	52.6	52.4
68°	50.1	50.3	49.8	50.1	49.5	49.5
68.5°	47.5	47.7	47.2	47.2	47.0	46.5
69°	44.9	45.2	44.6	44.9	44.1	43.9
69.5°	42.6	42.8	42.3	42.3	41.8	41.3
70°	40.3	40.5	40.0	40.0	39.2	39.0
70.5°	37.9	38.2	37.7	37.7	36.9	36.6
71°	35.9	36.1	35.6	35.6	34.8	34.3
71.5°	33.8	34.1	33.5	33.5	32.8	32.3
72°	32.0	32.0	31.7	31.7	30.7	30.2
72.5°	30.2	30.2	29.9	29.9	28.9	28.4
73°	28.4	28.4	28.1	28.1	27.1	26.6
73.5°	26.6	26.8	26.3	26.3	25.3	25.0
74°	25.0	25.0	24.8	24.8	23.7	23.5
74.5°	23.5	23.5	23.2	23.2	22.2	21.9
75°	22.2	22.2	21.9	21.7	20.9	20.4
75.5°	20.9	20.6	20.4	20.4	19.4	19.1
76°	19.6	19.4	19.1	18.8	18.1	17.8
76.5°	18.3	18.1	17.8	17.8	16.8	16.5
77°	17.0	17.0	16.8	16.5	15.5	15.2
77.5°	15.7	15.7	15.5	15.2	14.5	14.2
78°	14.5	14.7	14.5	14.2	13.2	13.2
78.5°	13.4	13.7	13.4	13.2	12.1	12.1
79°	12.4	12.6	12.4	12.1	11.4	11.1
79.5°	11.6	11.6	11.4	11.1	10.3	10.1
80°	10.6	10.6	10.6	10.1	9.3	9.3
80.5°	9.5	9.8	9.5	9.3	8.5	8.5
81°	8.8	9.0	8.8	8.5	7.7	7.7
81.5°	8.0	8.3	8.0	7.7	6.7	6.7
82°	7.2	7.5	7.2	7.0	5.9	6.2
82.5°	6.5	6.5	6.5	6.2	5.2	5.4
83°	5.7	5.9	5.7	5.4	4.4	4.6
83.5°	5.2	5.2	4.9	4.6	3.9	4.1
84°	4.4	4.4	4.4	4.1	3.4	3.4
84.5°	3.9	3.9	3.6	3.6	2.6	2.8
85°	3.1	3.1	3.1	3.1	2.3	2.1
85.5°	2.6	2.6	2.6	2.3	1.8	1.5
86°	2.1	2.1	2.1	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: P776099
CATALOG NUMBER: HCDJBL1525CSD-HCD6TRMW-2500lm-5000K

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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Scaled Data Report





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

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21.5°	1539.6	1560.8	1569.8	1572.4	1563.9	1552.5	1535.8	1517.2	1501.7	1481.8	1475.1
22°	1532.2	1553.8	1563.4	1565.7	1557.2	1545.6	1528.3	1509.4	1493.7	1473.1	1466.1



44°	694.2	771.4	805.9	812.4	789.7	764.4	736.8	703.0	665.6	597.7	568.8
44.5°	665.0	740.4	773.9	781.4	758.5	733.2	704.5	673.8	637.4	571.1	543.2



66.5°	58.8	66.8	70.5	73.0	72.8	73.3	72.8	70.5	66.1	61.4	60.6
67°	55.5	63.0	66.8	69.2	69.2	69.7	68.9	66.8	62.5	58.1	57.5



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°	1474.1	1482.3	1492.4	1506.1	1522.6	1539.6
22°	1465.1	1473.6	1483.6	1497.8	1514.9	1532.2



44°	565.7	586.6	597.7	612.7	644.1	694.2
44.5°	539.4	559.2	568.3	583.0	615.2	665.0



66.5°	58.8	59.1	58.6	58.8	58.8	58.8
67°	55.7	56.0	55.5	55.7	55.7	55.5

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

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(END OF REPORT)