

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: P776161

Luminaire Tested: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B068)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K
Description: 8 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2749.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.08 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

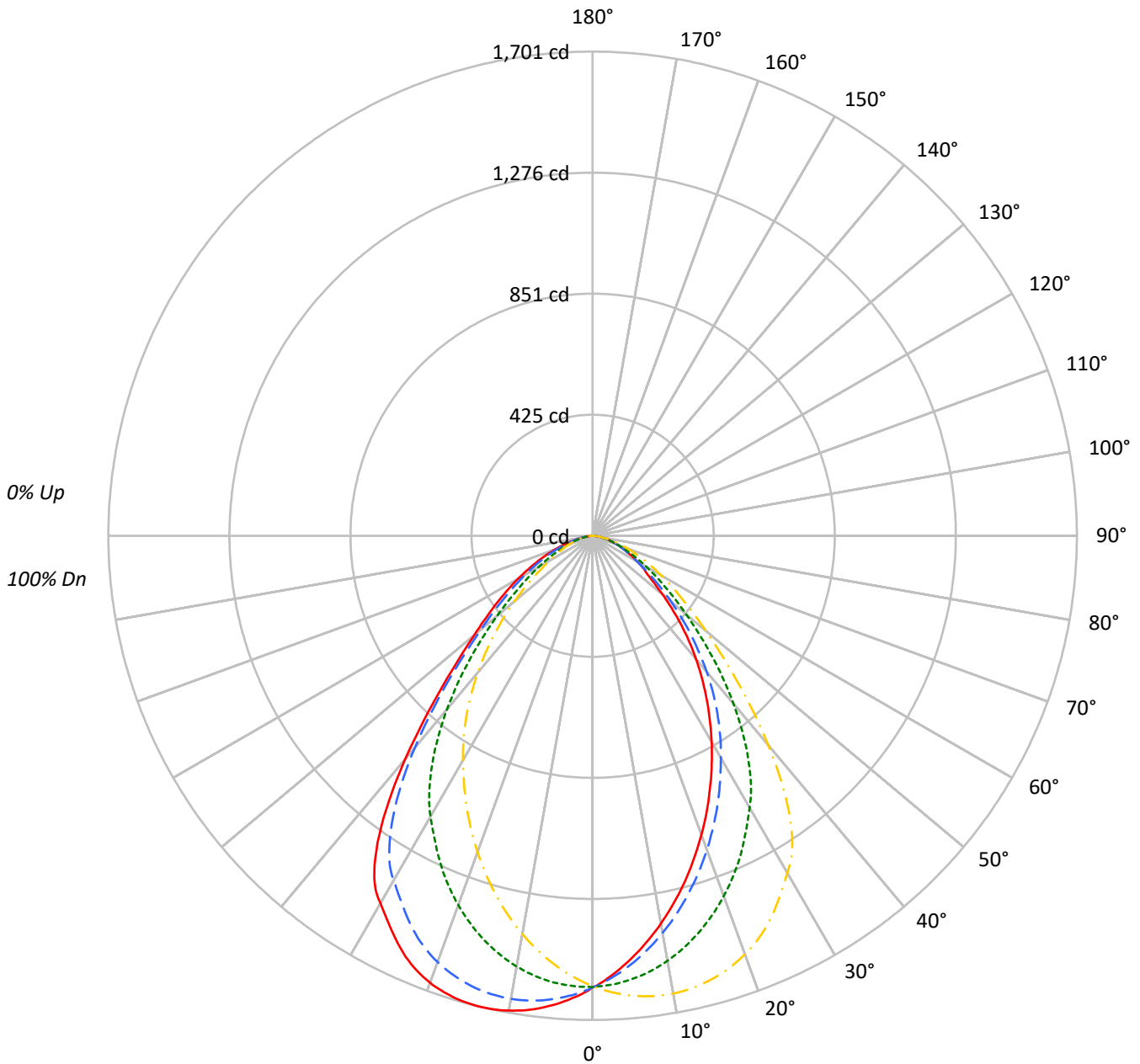
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78								
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	71	69								
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54								
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49								
7	72	60	52	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40								
9	64	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	48421	48421	48421	48421
5°	45851	47941	50764	48272
10°	42875	47001	52513	47637
15°	39667	45593	53713	46482
20°	36320	43767	54280	44842
25°	32891	41512	53817	42677
30°	29458	38899	52566	40143
35°	25989	35478	49067	36641
40°	22514	30664	40795	31728
45°	18855	25306	32024	26139
50°	15218	20352	25810	20799
55°	12477	16421	21770	16527
60°	11113	13287	18477	13317
65°	9601	10742	15452	10692
70°	8311	8578	12479	8507
75°	7137	6818	9496	6736
80°	5907	5468	6118	5257
85°	4169	4169	1822	3818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°
 Vertical Angle: 45°
 Luminance: 32024 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	5.4
10°-20°	412.2	15.0
20°-30°	582.5	21.2
30°-40°	612.3	22.3
40°-50°	461.7	16.8
50°-60°	286.2	10.4
60°-70°	160.9	5.9
70°-80°	71.0	2.6
80°-90°	14.1	0.5
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°	1143.5	41.6
0°-40°	1755.9	63.9
0°-60°	2503.7	91.1
0°-90°	2749.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2749.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1586	1586	1586	1586	1586	
5°	1496	1564	1656	1575	1496	139
15°	1255	1442	1699	1471	1255	351
25°	976	1232	1598	1267	976	448
35°	697	952	1316	983	697	435
45°	437	586	742	605	437	337
55°	234	308	409	310	234	215
65°	133	149	214	148	133	133
75°	60	58	80	57	60	65
85°	12	12	5	11	12	15
90°	0	0	0	0	0	



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0
0.5°	1580.8	1581.5	1581.3	1581.3	1583.8	1585.5	1587.2	1595.4	1597.1	1597.1	1593.6
1°	1572.4	1573.6	1574.9	1577.3	1582.8	1587.7	1592.2	1602.3	1604.5	1604.3	1599.1
1.5°	1563.8	1565.2	1568.2	1573.1	1581.5	1589.7	1597.1	1609.0	1612.2	1611.4	1604.8
2°	1554.6	1556.6	1561.0	1568.5	1580.1	1591.4	1601.6	1615.1	1619.3	1618.1	1609.7
2.5°	1545.5	1547.7	1553.9	1563.5	1578.1	1592.7	1605.5	1621.1	1626.0	1624.5	1614.9
3°	1536.1	1538.8	1546.0	1558.6	1575.9	1593.6	1609.5	1626.5	1632.9	1630.7	1619.1
3.5°	1526.5	1529.7	1538.6	1553.1	1573.6	1594.4	1613.2	1632.2	1639.1	1636.6	1623.3
4°	1516.6	1520.0	1530.4	1547.7	1570.7	1594.9	1616.4	1637.1	1645.0	1642.3	1627.2
4.5°	1506.5	1510.2	1522.0	1541.8	1567.7	1595.1	1619.6	1642.1	1650.7	1647.5	1631.2
5°	1496.1	1500.5	1513.4	1535.6	1564.3	1594.9	1622.1	1646.5	1656.4	1652.7	1634.4
5.5°	1485.7	1490.4	1505.0	1529.2	1560.8	1594.6	1624.5	1650.7	1661.6	1657.4	1637.6
6°	1475.1	1479.8	1495.8	1522.3	1556.8	1593.6	1626.7	1654.7	1666.3	1661.8	1640.3
6.5°	1464.2	1469.2	1486.7	1515.4	1552.6	1592.7	1628.5	1658.1	1670.7	1666.0	1643.0
7°	1452.9	1458.5	1477.1	1508.2	1548.4	1591.4	1630.0	1661.6	1675.2	1669.7	1645.0
7.5°	1442.0	1447.9	1467.7	1500.8	1543.5	1589.9	1631.2	1664.5	1679.1	1673.4	1647.0
8°	1430.4	1436.6	1457.8	1493.1	1538.6	1587.7	1632.2	1667.3	1682.8	1676.6	1648.5
8.5°	1418.8	1425.4	1447.9	1485.2	1533.4	1585.7	1632.7	1669.5	1686.0	1679.6	1649.7
9°	1406.7	1413.8	1437.3	1477.1	1527.7	1583.3	1632.9	1671.7	1689.0	1682.1	1651.0
9.5°	1395.1	1402.2	1427.2	1468.7	1522.0	1580.6	1632.9	1673.4	1691.7	1684.3	1651.4
10°	1383.0	1390.4	1416.6	1459.8	1516.1	1577.3	1632.7	1674.7	1693.9	1686.3	1651.9
10.5°	1370.6	1378.5	1405.7	1451.4	1509.7	1573.9	1632.2	1675.9	1695.9	1688.0	1651.9
11°	1358.3	1366.4	1394.6	1442.2	1503.0	1570.4	1631.2	1676.6	1697.6	1689.2	1651.7
11.5°	1345.9	1354.3	1383.7	1432.9	1496.3	1566.5	1630.2	1677.1	1699.1	1690.5	1651.0
12°	1333.3	1341.7	1372.3	1423.2	1489.4	1562.5	1628.7	1677.1	1700.1	1691.0	1650.2
12.5°	1320.2	1329.4	1360.7	1413.8	1482.0	1558.1	1626.7	1677.1	1700.8	1691.5	1649.0
13°	1307.1	1316.5	1349.1	1403.7	1474.6	1553.4	1624.8	1676.6	1701.3	1691.5	1647.5
13.5°	1294.5	1303.7	1337.5	1394.1	1467.2	1548.4	1622.3	1675.9	1701.3	1691.2	1645.8
14°	1281.4	1291.1	1325.7	1383.7	1458.8	1543.3	1619.6	1674.7	1701.1	1690.5	1643.5
14.5°	1268.1	1278.0	1313.6	1373.3	1450.6	1537.6	1616.6	1673.4	1700.4	1689.5	1641.1
15°	1255.0	1265.1	1301.2	1362.7	1442.5	1531.9	1613.4	1671.5	1699.4	1688.3	1638.4
15.5°	1241.2	1251.8	1288.9	1351.8	1433.8	1525.7	1609.7	1669.5	1698.1	1686.8	1635.4
16°	1227.8	1238.5	1276.5	1341.0	1424.9	1519.5	1606.0	1667.0	1696.4	1684.8	1631.9
16.5°	1214.3	1225.1	1264.2	1330.1	1415.8	1512.9	1601.8	1664.3	1694.7	1682.6	1628.2
17°	1200.7	1212.0	1251.8	1318.7	1406.7	1506.2	1597.4	1661.3	1692.2	1679.9	1624.3
17.5°	1186.8	1198.4	1238.7	1307.6	1397.3	1499.3	1592.7	1657.9	1689.5	1676.9	1619.8
18°	1173.0	1184.9	1226.1	1295.8	1387.7	1491.9	1587.7	1654.2	1686.5	1673.4	1615.4
18.5°	1159.2	1171.0	1213.0	1284.4	1377.5	1484.5	1582.3	1650.0	1683.1	1669.7	1610.4
19°	1145.6	1157.4	1200.2	1272.5	1367.6	1476.6	1576.6	1645.5	1679.4	1665.8	1605.0
19.5°	1131.3	1143.6	1187.1	1260.7	1357.5	1468.7	1570.7	1640.8	1675.4	1661.3	1599.3
20°	1117.9	1130.0	1173.7	1248.8	1347.1	1460.3	1564.5	1635.6	1670.7	1656.1	1593.4
20.5°	1103.6	1116.4	1160.7	1236.5	1336.3	1451.9	1558.1	1630.2	1665.8	1651.0	1587.2
21°	1089.8	1102.6	1147.3	1224.1	1325.7	1443.0	1550.9	1624.3	1660.3	1645.5	1580.3



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CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1047.3	1060.6	1107.1	1186.8	1292.3	1414.8	1528.4	1603.8	1641.1	1625.5	1557.6
23°	1033.2	1046.8	1093.5	1174.0	1280.7	1404.9	1520.0	1595.9	1633.7	1617.9	1549.2
23.5°	1019.1	1032.5	1079.6	1161.2	1268.8	1394.8	1511.2	1587.7	1625.5	1609.7	1540.3
24°	1005.0	1018.6	1066.5	1148.3	1257.0	1384.2	1502.0	1578.3	1616.9	1600.6	1530.7
24.5°	990.7	1004.6	1052.5	1135.2	1244.9	1373.1	1492.1	1568.7	1607.5	1591.2	1520.5
25°	976.4	990.5	1038.9	1121.9	1232.3	1361.7	1481.8	1558.6	1597.6	1581.1	1509.9
25.5°	962.3	976.1	1025.1	1108.5	1219.2	1349.6	1470.9	1548.4	1587.5	1571.2	1499.0
26°	948.2	962.6	1011.2	1095.2	1206.6	1337.5	1459.8	1537.3	1577.1	1560.1	1487.7
26.5°	934.2	948.5	997.4	1081.9	1193.3	1324.9	1448.2	1526.2	1566.5	1549.4	1476.6
27°	920.3	934.4	983.8	1068.3	1179.9	1312.8	1436.8	1515.4	1555.6	1538.8	1465.0
27.5°	906.0	920.3	970.0	1054.4	1167.1	1300.5	1425.2	1504.7	1544.7	1527.7	1453.6
28°	891.7	906.5	955.9	1040.9	1154.0	1288.1	1413.8	1493.4	1533.6	1516.6	1442.2
28.5°	877.3	892.2	942.1	1027.3	1141.1	1275.5	1401.7	1482.5	1523.0	1506.0	1431.1
29°	863.5	878.3	928.7	1013.9	1128.3	1263.4	1390.4	1471.4	1511.9	1494.8	1419.5
29.5°	849.7	864.3	914.9	1000.6	1115.7	1251.3	1378.8	1460.8	1501.3	1484.0	1408.4
30°	835.6	850.4	901.1	987.8	1103.4	1239.5	1367.6	1450.4	1491.1	1473.9	1398.0
30.5°	821.3	836.6	887.5	974.4	1090.5	1227.6	1356.8	1440.5	1481.5	1464.2	1387.7
31°	807.4	822.8	874.4	961.6	1077.9	1216.0	1346.4	1429.6	1470.9	1453.1	1375.8
31.5°	793.6	808.9	861.0	948.0	1064.1	1202.6	1334.1	1416.3	1458.3	1440.3	1362.2
32°	779.8	795.3	847.5	934.7	1049.8	1188.6	1320.2	1401.0	1443.5	1425.2	1346.4
32.5°	765.5	781.3	834.1	920.3	1034.4	1172.5	1304.7	1384.7	1426.7	1408.2	1329.6
33°	751.9	767.9	820.3	906.5	1018.9	1156.2	1287.9	1365.7	1407.7	1389.4	1311.6
33.5°	738.5	754.6	807.0	891.7	1002.3	1138.4	1269.3	1345.7	1387.2	1369.1	1291.8
34°	724.7	741.0	792.9	876.4	985.8	1120.4	1250.1	1323.4	1364.9	1347.6	1271.6
34.5°	711.1	727.7	778.8	861.3	969.0	1101.6	1229.3	1300.7	1341.5	1324.7	1250.3
35°	697.3	714.1	764.7	846.2	951.9	1081.9	1208.1	1275.8	1316.5	1300.0	1228.6
35.5°	683.7	700.5	750.6	830.7	934.2	1062.4	1185.4	1250.3	1290.1	1275.3	1205.6
36°	670.6	686.9	736.6	815.1	916.6	1042.3	1162.6	1223.6	1262.7	1248.8	1181.4
36.5°	657.0	673.6	722.5	799.3	898.3	1021.6	1139.4	1197.0	1234.5	1221.4	1156.7
37°	643.9	660.2	708.4	784.0	880.3	1000.4	1114.2	1168.3	1205.6	1193.3	1131.8
37.5°	630.3	646.6	693.8	768.2	862.0	979.4	1089.5	1139.7	1176.2	1164.1	1105.8
38°	617.3	633.3	679.7	752.1	843.3	957.6	1063.6	1111.0	1146.3	1135.0	1079.6
38.5°	603.9	619.5	665.4	735.8	825.0	936.4	1037.9	1083.3	1116.2	1105.6	1052.7
39°	590.8	606.4	651.1	720.0	807.2	914.4	1012.2	1053.2	1085.1	1075.7	1025.8
39.5°	578.0	593.0	637.0	704.2	788.4	892.2	986.0	1024.3	1054.2	1045.1	998.6
40°	564.9	579.7	622.2	688.1	769.4	869.9	959.8	994.7	1023.6	1014.9	971.2
40.5°	551.8	566.4	608.1	671.6	750.9	848.0	933.2	966.5	992.7	985.0	943.5
41°	539.0	553.3	593.8	655.8	732.1	825.7	907.5	937.4	963.1	955.4	916.4
41.5°	525.9	540.2	580.0	640.0	713.8	803.2	881.8	908.5	932.4	925.8	889.2
42°	512.8	527.1	565.9	624.2	695.1	781.3	856.4	880.8	903.5	896.4	862.5
42.5°	500.2	514.3	551.8	608.9	676.5	759.3	831.4	853.6	874.6	867.7	836.1
43°	487.3	501.4	538.5	593.3	658.3	738.0	806.2	827.0	846.5	840.3	809.9
43.5°	474.7	488.6	524.9	578.0	639.7	716.5	781.8	800.8	818.8	812.4	784.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	436.7	450.8	484.6	532.5	586.1	654.1	711.9	726.4	741.7	736.1	711.4
45.5°	424.3	437.9	471.5	518.0	568.8	634.3	689.6	703.5	717.8	711.6	687.9
46°	412.2	425.8	458.4	503.6	551.8	615.0	668.1	681.0	694.8	688.9	665.2
46.5°	400.4	414.0	446.1	489.3	535.3	595.5	647.1	659.0	672.6	666.4	643.2
47°	388.3	401.6	433.0	474.5	518.7	576.5	626.6	638.7	651.6	645.2	622.7
47.5°	376.4	390.3	420.4	461.2	502.6	558.5	606.9	619.0	631.8	624.9	602.4
48°	364.8	378.7	408.0	447.1	487.3	541.4	587.9	600.0	612.6	605.9	582.9
48.5°	353.5	367.3	395.7	433.5	472.5	524.1	569.8	581.7	593.8	586.9	563.9
49°	341.8	356.4	383.8	420.1	457.4	507.1	551.8	564.4	576.7	569.6	546.4
49.5°	331.5	345.6	371.7	407.3	442.6	491.5	535.0	547.4	559.7	551.8	528.6
50°	320.4	334.7	360.1	394.2	428.5	476.0	518.5	531.3	543.4	535.7	512.0
50.5°	309.7	324.6	348.5	381.4	415.0	460.7	502.2	515.5	527.6	519.7	496.0
51°	299.6	313.9	337.4	369.0	401.6	445.8	486.8	500.7	512.5	504.4	480.7
51.5°	290.0	304.1	326.3	357.2	388.8	431.8	472.3	486.1	498.2	490.0	465.8
52°	280.3	293.9	315.2	345.6	376.2	417.9	457.7	472.5	484.1	475.7	451.5
52.5°	271.2	284.5	304.8	333.9	364.1	405.1	443.9	458.7	470.8	461.9	437.4
53°	262.8	275.2	294.4	322.6	352.2	392.0	430.3	445.8	457.7	448.8	424.1
53.5°	254.7	266.0	284.3	311.7	340.9	379.4	417.4	433.2	445.1	436.0	411.0
54°	247.2	257.1	274.4	301.1	329.7	367.0	404.8	420.9	433.0	423.6	398.9
54.5°	240.6	248.7	264.8	291.2	319.1	355.7	392.5	409.0	420.9	411.5	386.8
55°	234.4	240.8	255.6	281.1	308.5	344.1	380.9	397.4	409.0	399.9	374.9
55.5°	228.7	232.9	246.8	271.7	298.4	333.0	369.5	386.1	397.7	388.5	363.6
56°	223.5	225.8	238.1	262.1	288.3	322.3	358.2	375.2	386.3	377.7	352.5
56.5°	219.6	218.8	230.0	253.2	278.6	311.7	347.3	364.3	375.2	366.3	341.6
57°	214.9	212.4	221.8	244.3	269.0	301.3	336.7	353.7	364.3	355.7	331.2
57.5°	209.5	206.5	214.1	235.6	259.8	291.5	326.3	343.6	353.7	345.6	321.1
58°	204.0	201.6	206.7	227.2	251.0	282.1	316.2	333.2	343.1	335.4	311.2
58.5°	198.6	196.6	199.6	219.3	242.3	272.7	306.5	323.1	332.5	325.1	301.1
59°	193.2	191.7	192.7	211.4	233.9	263.5	296.6	313.2	322.3	314.9	291.7
59.5°	187.5	186.5	186.2	203.8	225.8	254.7	287.3	303.3	312.2	305.0	282.3
60°	182.0	181.5	179.8	196.4	217.6	246.0	278.1	293.9	302.6	295.7	273.2
60.5°	176.6	176.4	173.9	189.2	210.2	237.9	268.7	284.5	292.7	286.0	264.3
61°	171.4	171.2	168.0	182.0	202.8	229.5	259.8	275.4	283.3	276.9	255.4
61.5°	166.2	166.2	162.3	175.4	195.1	221.3	251.2	266.3	273.9	268.0	247.0
62°	161.3	161.3	157.1	168.7	187.7	213.9	243.0	257.4	264.8	259.4	238.6
62.5°	156.1	156.4	151.9	162.3	181.1	206.2	234.7	248.5	255.9	250.0	230.5
63°	151.4	151.7	147.0	156.1	174.1	198.8	226.5	240.1	247.0	241.6	222.5
63.5°	146.5	147.0	142.3	150.2	167.5	191.4	218.6	231.9	238.4	233.2	214.9
64°	142.0	142.3	138.1	144.5	161.0	184.0	210.9	223.5	230.0	225.0	207.2
64.5°	137.3	137.8	133.9	139.1	154.6	177.1	203.3	215.9	221.8	217.1	199.8
65°	132.9	133.6	129.9	133.6	148.7	170.4	195.6	208.2	213.9	209.5	192.2
65.5°	128.7	129.2	126.0	128.4	142.8	163.8	188.2	200.6	206.0	201.8	184.5
66°	124.2	125.0	122.0	123.5	136.8	157.1	181.3	192.9	198.3	194.1	177.6



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	111.9	112.9	110.4	109.4	120.5	138.8	160.8	170.7	174.9	171.7	157.1
68°	108.2	108.9	107.0	105.2	115.1	132.9	154.1	163.5	167.5	164.5	150.4
68.5°	104.2	105.0	103.2	101.0	110.2	127.2	147.5	156.8	160.6	157.8	144.2
69°	100.5	101.3	99.5	97.1	105.5	121.5	141.3	149.9	153.4	150.9	137.8
69.5°	96.6	97.6	96.1	93.1	100.8	116.3	135.1	143.5	146.7	144.2	131.9
70°	93.1	93.9	92.6	89.2	96.1	111.2	129.2	137.1	139.8	137.8	126.0
70.5°	89.4	90.4	88.9	85.7	91.9	106.0	123.3	130.9	133.4	131.9	120.3
71°	86.0	86.9	85.7	82.5	87.4	101.0	117.8	124.7	127.0	125.5	114.4
71.5°	82.7	83.7	82.7	79.3	83.5	96.1	112.1	119.1	120.8	119.5	108.9
72°	79.5	80.5	79.5	76.1	79.3	91.4	106.7	112.9	114.4	113.6	103.5
72.5°	76.1	77.1	76.6	72.6	75.3	86.9	101.3	107.4	108.4	107.7	98.1
73°	72.9	73.9	73.4	69.7	71.6	82.5	96.1	101.8	102.5	102.3	92.9
73.5°	69.7	70.6	70.1	66.7	67.9	78.1	90.9	96.3	96.8	96.8	88.2
74°	66.7	67.4	67.2	64.0	64.5	73.9	86.2	91.1	91.4	91.6	83.2
74.5°	63.5	64.5	64.2	61.0	61.0	69.9	81.3	86.2	85.7	86.5	78.3
75°	60.5	61.5	61.5	58.3	57.8	65.9	76.6	81.0	80.5	81.3	73.9
75.5°	57.6	58.5	58.5	55.8	54.8	62.2	72.1	76.3	75.3	76.6	69.4
76°	54.8	55.6	55.8	53.1	51.6	58.5	67.7	71.6	70.1	71.9	65.0
76.5°	51.9	52.9	53.1	50.6	48.9	54.8	63.5	66.9	65.2	67.2	60.8
77°	49.2	49.9	50.4	48.2	45.9	51.6	59.5	62.5	60.5	62.7	56.8
77.5°	46.4	47.2	47.7	45.7	43.2	48.2	55.3	58.3	55.8	58.5	52.9
78°	43.7	44.7	45.2	43.2	40.8	45.2	51.6	54.1	51.4	54.3	48.9
78.5°	41.2	42.0	42.5	41.0	38.0	42.0	47.9	50.1	46.9	50.1	45.4
79°	38.5	39.5	40.0	38.5	35.8	39.0	44.2	46.2	42.7	46.4	41.7
79.5°	36.1	37.1	37.5	36.3	33.3	36.3	40.8	42.5	38.8	42.5	38.5
80°	33.6	34.3	35.1	34.1	31.1	33.6	37.3	38.8	34.8	39.0	35.1
80.5°	31.4	31.9	32.9	31.9	28.9	30.9	34.3	35.1	31.1	35.3	31.9
81°	28.9	29.6	30.6	29.9	26.7	28.4	31.1	31.6	27.4	31.9	28.9
81.5°	26.7	27.4	28.4	27.7	24.7	25.9	28.2	28.2	24.2	28.7	25.9
82°	24.5	24.9	26.2	25.7	22.7	23.5	25.4	25.2	21.0	25.7	23.5
82.5°	22.2	22.7	24.0	23.5	20.7	21.5	23.0	22.2	18.0	22.7	21.0
83°	20.0	20.7	22.0	21.5	19.0	19.5	20.5	19.3	14.8	19.8	18.3
83.5°	17.8	18.5	19.8	19.8	17.3	17.3	18.0	16.3	11.6	16.8	15.8
84°	15.8	16.3	17.8	17.8	15.3	15.3	15.6	13.3	9.1	13.8	13.3
84.5°	13.8	14.3	15.8	15.8	13.6	13.3	13.1	10.6	6.9	10.9	11.4
85°	11.9	12.4	13.8	14.1	11.9	11.6	11.1	8.4	5.2	8.4	9.4
85.5°	9.9	10.1	12.1	12.1	10.1	9.9	9.4	6.7	4.0	6.7	7.7
86°	8.4	8.9	10.4	10.4	8.6	8.2	7.7	4.9	3.2	4.9	5.9
86.5°	6.9	7.4	8.6	8.9	7.2	6.7	5.9	3.5	2.5	3.5	4.4
87°	5.4	5.9	7.2	7.2	5.7	5.2	4.4	2.2	1.7	2.2	3.2
87.5°	4.0	4.4	5.7	5.7	4.2	3.7	3.2	1.2	1.2	1.2	2.0
88°	2.7	3.2	4.2	4.0	3.0	2.5	2.0	0.5	0.5	0.5	1.0
88.5°	1.7	2.0	2.5	2.5	1.5	1.2	1.0	0.2	0.2	0.2	0.2



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0
0.5°	1588.5	1585.0	1580.3	1576.1	1581.1	1580.8
1°	1591.4	1585.0	1577.1	1570.4	1573.4	1572.4
1.5°	1594.1	1585.0	1573.6	1564.3	1565.5	1563.8
2°	1596.9	1584.3	1569.9	1557.6	1557.3	1554.6
2.5°	1599.1	1583.5	1565.7	1550.7	1548.9	1545.5
3°	1601.1	1582.3	1561.5	1544.0	1540.3	1536.1
3.5°	1602.5	1580.8	1556.8	1536.8	1531.7	1526.5
4°	1604.0	1579.3	1552.2	1529.4	1522.5	1516.6
4.5°	1605.0	1577.3	1547.0	1521.5	1513.1	1506.5
5°	1605.5	1575.1	1541.8	1513.4	1503.7	1496.1
5.5°	1606.0	1572.7	1535.9	1505.2	1493.9	1485.7
6°	1606.2	1569.7	1530.2	1496.8	1484.0	1475.1
6.5°	1606.0	1566.5	1524.0	1487.9	1473.9	1464.2
7°	1605.5	1563.3	1517.3	1479.3	1463.2	1452.9
7.5°	1604.8	1559.3	1510.7	1469.7	1452.9	1442.0
8°	1603.8	1555.4	1503.7	1460.5	1442.0	1430.4
8.5°	1602.5	1551.2	1496.3	1450.6	1431.1	1418.8
9°	1600.8	1546.5	1488.7	1441.0	1419.8	1406.7
9.5°	1598.8	1541.5	1480.8	1430.6	1408.4	1395.1
10°	1596.6	1536.6	1472.9	1420.7	1397.0	1383.0
10.5°	1594.1	1531.2	1464.7	1410.1	1385.4	1370.6
11°	1591.2	1525.2	1456.3	1399.8	1373.6	1358.3
11.5°	1588.2	1519.3	1447.4	1388.6	1361.5	1345.9
12°	1584.5	1513.1	1438.5	1377.8	1349.4	1333.3
12.5°	1581.1	1506.7	1429.4	1366.7	1337.0	1320.2
13°	1576.9	1500.0	1420.3	1355.3	1324.7	1307.1
13.5°	1572.7	1493.1	1410.6	1343.9	1312.3	1294.5
14°	1568.0	1486.0	1400.7	1332.1	1299.5	1281.4
14.5°	1563.3	1478.5	1390.6	1320.2	1286.9	1268.1
15°	1558.1	1470.6	1380.7	1308.6	1273.8	1255.0
15.5°	1552.6	1462.7	1370.1	1296.0	1260.7	1241.2
16°	1547.0	1454.3	1359.7	1283.9	1247.6	1227.8
16.5°	1541.0	1446.2	1349.1	1271.3	1234.3	1214.3
17°	1534.6	1437.3	1338.0	1259.2	1221.2	1200.7
17.5°	1528.2	1428.4	1327.1	1246.9	1207.8	1186.8
18°	1521.3	1419.3	1315.8	1233.8	1194.5	1173.0
18.5°	1514.4	1409.9	1304.4	1220.9	1180.9	1159.2
19°	1506.7	1400.2	1292.8	1208.3	1167.1	1145.6
19.5°	1499.0	1390.6	1281.2	1195.5	1153.5	1131.3
20°	1491.1	1380.2	1269.3	1182.4	1139.9	1117.9
20.5°	1482.7	1370.4	1257.5	1169.1	1126.3	1103.6
21°	1474.3	1359.7	1245.1	1156.0	1112.5	1089.8



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1446.9	1327.1	1208.1	1116.0	1071.0	1047.3
23°	1437.1	1315.5	1195.2	1102.4	1056.7	1033.2
23.5°	1426.4	1303.9	1182.4	1089.0	1043.1	1019.1
24°	1415.8	1292.1	1169.3	1074.9	1029.3	1005.0
24.5°	1404.4	1279.7	1156.2	1061.9	1014.9	990.7
25°	1392.6	1266.9	1142.9	1047.8	1000.8	976.4
25.5°	1380.7	1254.3	1129.5	1033.9	987.0	962.3
26°	1368.4	1241.4	1116.0	1020.4	972.9	948.2
26.5°	1356.3	1228.1	1102.4	1006.8	958.9	934.2
27°	1344.2	1214.8	1088.5	992.7	945.0	920.3
27.5°	1331.8	1201.9	1074.9	978.6	930.7	906.0
28°	1319.5	1189.1	1061.4	964.8	916.9	891.7
28.5°	1307.4	1176.0	1048.3	951.4	902.5	877.3
29°	1295.5	1163.4	1034.9	937.6	889.0	863.5
29.5°	1283.9	1151.0	1022.1	924.3	874.9	849.7
30°	1272.5	1138.7	1009.0	910.4	861.0	835.6
30.5°	1260.7	1126.3	995.7	897.1	847.2	821.3
31°	1247.4	1113.0	982.1	883.8	833.6	807.4
31.5°	1233.3	1099.2	968.7	870.2	819.8	793.6
32°	1217.5	1083.8	954.4	856.6	806.0	779.8
32.5°	1200.7	1068.0	939.8	842.8	792.1	765.5
33°	1182.9	1052.2	925.0	828.9	778.8	751.9
33.5°	1164.6	1035.2	910.0	815.1	765.2	738.5
34°	1145.6	1018.1	894.4	801.0	751.6	724.7
34.5°	1126.3	1000.8	878.6	786.7	738.0	711.1
35°	1106.6	983.1	862.8	772.4	724.7	697.3
35.5°	1086.1	965.3	847.0	757.8	710.9	683.7
36°	1065.3	947.0	830.9	743.7	697.5	670.6
36.5°	1043.8	929.0	814.9	729.1	683.9	657.0
37°	1022.1	910.2	798.3	714.3	670.4	643.9
37.5°	1000.1	891.7	782.3	699.8	656.8	630.3
38°	977.9	872.4	765.7	685.2	643.2	617.3
38.5°	955.6	853.6	749.4	670.6	629.6	603.9
39°	933.2	834.4	733.3	656.3	616.0	590.8
39.5°	910.4	815.3	716.5	641.7	602.7	578.0
40°	886.7	796.1	700.2	627.1	589.3	564.9
40.5°	863.5	776.6	683.9	612.8	575.8	551.8
41°	840.8	757.1	667.6	598.5	562.4	539.0
41.5°	817.6	737.8	651.3	583.9	548.8	525.9
42°	794.6	718.8	635.3	570.1	535.7	512.8
42.5°	771.1	699.0	619.5	556.2	522.7	500.2
43°	748.4	680.2	603.4	541.9	509.8	487.3
43.5°	725.9	661.2	587.1	527.8	497.0	474.7



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	660.7	605.4	540.4	486.8	458.2	436.7
45.5°	639.2	586.9	524.9	473.3	445.8	424.3
46°	619.2	569.1	509.8	460.2	433.2	412.2
46.5°	598.5	551.3	494.7	447.1	421.1	400.4
47°	579.0	534.3	479.9	433.7	409.0	388.3
47.5°	560.0	517.0	465.1	420.6	397.2	376.4
48°	541.9	500.4	451.0	408.0	385.6	364.8
48.5°	523.6	484.1	436.7	395.2	373.7	353.5
49°	506.1	468.6	422.9	383.1	362.6	341.8
49.5°	489.6	453.2	409.0	370.7	351.5	331.5
50°	473.5	437.9	395.7	358.6	340.4	320.4
50.5°	457.4	423.1	382.4	346.5	329.7	309.7
51°	442.6	409.0	369.8	335.2	318.6	299.6
51.5°	428.3	395.4	357.2	323.6	308.5	290.0
52°	414.2	382.1	345.1	313.0	298.4	280.3
52.5°	400.4	369.3	333.2	301.8	288.3	271.2
53°	387.3	356.7	321.6	291.2	278.4	262.8
53.5°	374.5	344.6	310.5	280.8	268.7	254.7
54°	362.6	333.0	299.4	271.0	259.4	247.2
54.5°	350.7	321.8	289.0	261.1	250.5	240.6
55°	339.1	310.5	278.9	251.7	242.1	234.4
55.5°	328.3	300.1	269.0	242.6	233.9	228.7
56°	317.4	290.0	259.4	233.9	226.0	223.5
56.5°	307.0	279.9	250.0	225.5	218.6	219.6
57°	296.9	270.0	241.1	217.1	211.9	214.9
57.5°	287.0	260.8	232.4	209.5	205.3	209.5
58°	277.6	251.9	224.0	202.0	199.3	204.0
58.5°	268.2	243.0	215.9	194.9	193.9	198.6
59°	259.1	234.2	208.0	188.0	189.0	193.2
59.5°	250.5	226.3	200.3	181.1	184.3	187.5
60°	241.8	218.1	192.9	174.9	179.3	182.0
60.5°	233.4	210.2	185.7	168.7	174.4	176.6
61°	225.3	202.0	178.8	162.8	169.4	171.4
61.5°	217.6	194.9	171.9	157.1	164.5	166.2
62°	210.0	187.7	165.2	151.9	159.8	161.3
62.5°	202.5	180.8	159.1	146.5	154.9	156.1
63°	194.9	173.6	152.9	141.5	150.2	151.4
63.5°	187.5	167.0	147.0	136.8	145.7	146.5
64°	180.3	160.6	141.0	132.1	141.0	142.0
64.5°	173.6	154.1	135.6	127.7	136.8	137.3
65°	166.5	148.0	130.2	123.7	132.4	132.9
65.5°	160.1	142.0	125.0	119.8	128.2	128.7
66°	153.6	136.1	120.0	116.1	124.0	124.2



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	135.4	119.8	106.0	105.0	111.6	111.9
68°	129.7	114.6	101.5	101.5	107.9	108.2
68.5°	124.0	109.4	97.3	98.1	104.0	104.2
69°	118.6	104.7	93.4	94.4	100.5	100.5
69.5°	113.1	100.0	89.4	91.1	96.8	96.6
70°	107.9	95.3	86.0	87.9	93.1	93.1
70.5°	102.8	90.9	82.5	84.7	89.7	89.4
71°	97.8	86.9	79.0	81.8	86.5	86.0
71.5°	93.1	83.0	75.6	78.5	83.0	82.7
72°	88.4	79.0	71.9	75.3	79.8	79.5
72.5°	84.0	75.1	68.9	72.1	76.6	76.1
73°	79.5	70.9	65.7	69.2	73.4	72.9
73.5°	75.3	67.4	62.7	66.2	70.1	69.7
74°	71.1	63.7	60.0	63.5	66.9	66.7
74.5°	67.2	60.3	57.1	60.5	64.0	63.5
75°	63.2	57.1	54.3	57.6	61.0	60.5
75.5°	59.5	53.8	51.9	54.8	58.0	57.6
76°	55.8	50.9	49.2	52.1	55.1	54.8
76.5°	52.4	47.9	46.7	49.6	52.4	51.9
77°	49.2	45.0	44.2	46.9	49.6	49.2
77.5°	45.9	42.2	42.0	44.5	46.7	46.4
78°	42.7	39.5	39.8	42.0	44.2	43.7
78.5°	39.8	37.1	37.3	39.5	41.5	41.2
79°	36.8	34.6	35.3	37.1	39.0	38.5
79.5°	34.1	32.1	33.1	34.8	36.6	36.1
80°	31.1	29.9	30.9	32.4	34.1	33.6
80.5°	28.7	27.7	28.9	30.1	31.6	31.4
81°	26.2	25.4	26.9	27.9	29.4	28.9
81.5°	23.7	23.5	24.7	25.7	26.9	26.7
82°	21.7	21.5	22.7	23.7	24.7	24.5
82.5°	19.5	19.5	20.7	21.5	22.5	22.2
83°	17.5	17.5	19.0	19.5	20.3	20.0
83.5°	15.3	15.8	17.0	17.5	18.3	17.8
84°	13.3	14.1	15.3	15.6	16.1	15.8
84.5°	11.4	12.4	13.6	13.8	14.1	13.8
85°	9.6	10.9	11.9	12.1	12.1	11.9
85.5°	7.9	9.1	10.1	10.4	10.1	9.9
86°	6.4	7.7	8.4	8.6	8.6	8.4
86.5°	4.9	6.2	6.9	7.2	7.4	6.9
87°	3.7	4.7	5.4	5.7	5.9	5.4
87.5°	2.2	3.5	4.0	4.0	4.4	4.0
88°	1.2	2.0	2.2	2.5	3.2	2.7
88.5°	0.2	0.7	1.0	1.2	2.0	1.7



TEST NUMBER: P776161

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.2	0.0



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Cooper Lighting Solutions Photometric Lab
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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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21.5°	1075.4	1088.5	1133.5	1211.8	1314.8	1433.8	1543.8	1617.9	1654.4	1639.1	1572.9
22°	1061.4	1074.5	1120.4	1199.4	1303.7	1424.5	1536.3	1610.9	1648.0	1632.7	1565.5



44°	461.9	475.7	511.5	562.2	621.7	695.3	758.0	775.1	791.9	786.2	758.8
44.5°	449.3	463.1	498.0	547.8	603.9	674.3	734.8	750.4	766.4	760.0	734.6



66.5°	120.0	120.8	118.1	118.6	131.2	150.7	174.4	185.3	190.4	186.5	170.7
67°	116.1	116.8	114.4	113.9	125.7	144.7	167.5	177.8	182.5	178.8	163.8



89°	0.7	1.0	1.2	1.0	0.5	0.2	0.2	0.0	0.0	0.0	0.0
89.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	1465.2	1349.1	1233.0	1142.6	1098.7	1075.4
22°	1456.1	1337.8	1220.4	1129.3	1084.8	1061.4



44°	703.7	642.2	571.6	514.3	483.6	461.9
44.5°	682.2	623.4	556.0	500.4	471.0	449.3

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66.5°	147.5	130.7	115.1	112.4	119.8	120.0
67°	141.3	125.2	110.4	108.7	115.8	116.1

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89°	0.0	0.2	0.2	0.2	1.0	0.7
89.5°	0.0	0.0	0.0	0.0	0.2	0.2

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(END OF REPORT)