

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: P776160

Luminaire Tested: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776160
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-2700K
Description: 8 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2696.7 lumens
Efficiency: N/A
Efficacy: 107.9 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

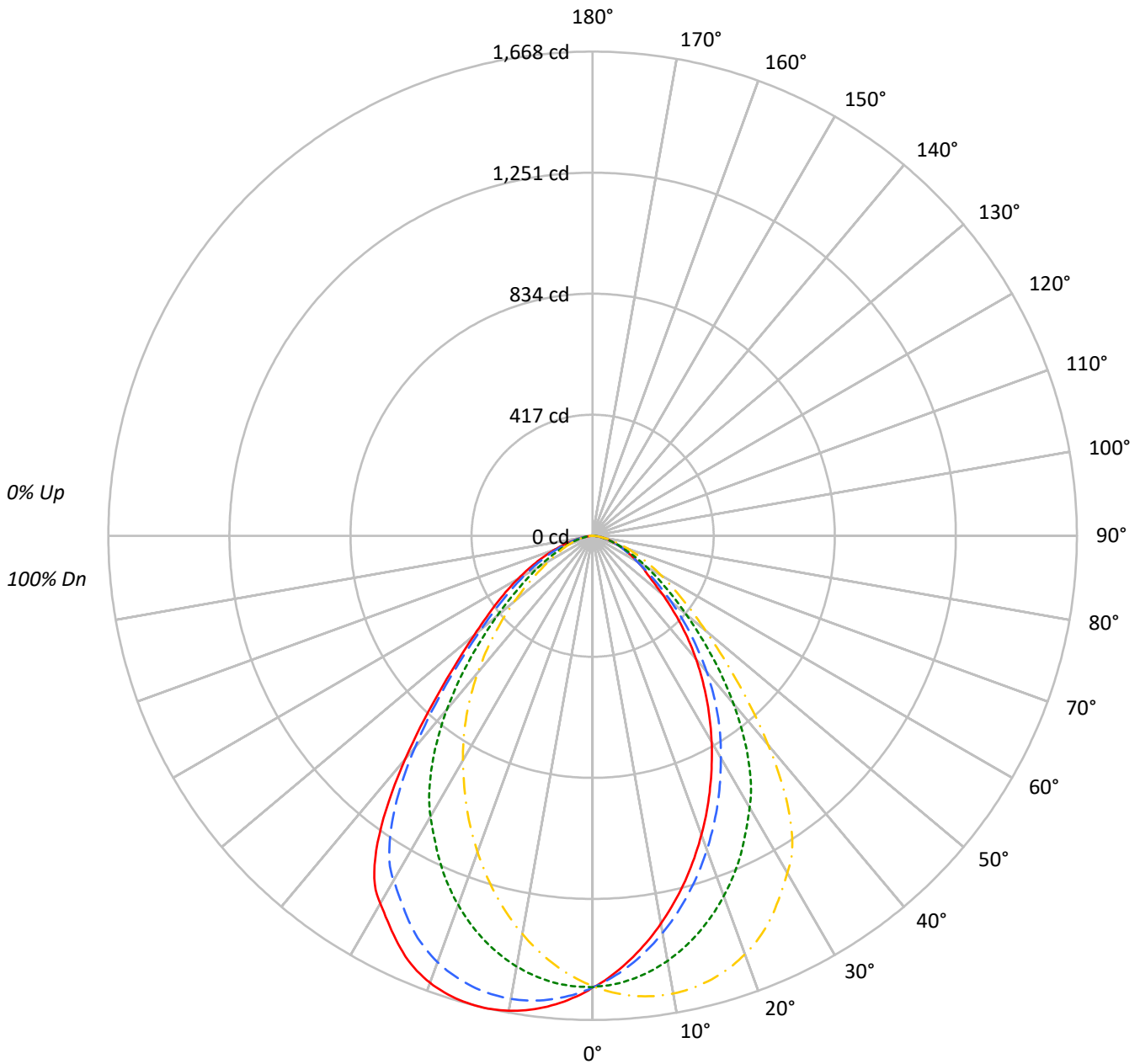
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	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°	47487	47487	47487	47487
5°	44965	47015	49783	47340
10°	42047	46093	51499	46716
15°	38902	44712	52677	45584
20°	35618	42922	53234	43978
25°	32255	40710	52780	41852
30°	28890	38144	51554	39367
35°	25486	34796	48120	35933
40°	22079	30074	40006	31114
45°	18492	24818	31406	25634
50°	14923	19963	25311	20400
55°	12237	16101	21350	16208
60°	10899	13030	18117	13061
65°	9413	10533	15156	10482
70°	8150	8409	12238	8346
75°	6995	6688	9319	6606
80°	5784	5362	6013	5151
85°	4063	4063	1787	3748

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°
 Vertical Angle: 45°
 Luminance: 31406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	5.4
10°-20°	404.3	15.0
20°-30°	571.3	21.2
30°-40°	600.5	22.3
40°-50°	452.8	16.8
50°-60°	280.6	10.4
60°-70°	157.8	5.9
70°-80°	69.7	2.6
80°-90°	13.8	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°	1121.5	41.6
0°-40°	1722.0	63.9
0°-60°	2455.4	91.1
0°-90°	2696.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2696.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1555	1555	1555	1555	1555	
5°	1467	1534	1624	1545	1467	137
15°	1231	1415	1667	1442	1231	344
25°	958	1208	1567	1242	958	439
35°	684	934	1291	964	684	427
45°	428	575	727	594	428	331
55°	230	302	401	304	230	211
65°	130	146	210	145	130	130
75°	59	57	79	56	59	64
85°	12	12	5	11	12	14
90°	0	0	0	0	0	



TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4
0.5°	1550.3	1551.0	1550.8	1550.8	1553.2	1554.9	1556.6	1564.6	1566.3	1566.3	1562.9
1°	1542.0	1543.3	1544.5	1546.9	1552.2	1557.1	1561.4	1571.4	1573.5	1573.3	1568.2
1.5°	1533.6	1535.0	1537.9	1542.8	1551.0	1559.0	1566.3	1577.9	1581.0	1580.3	1573.8
2°	1524.6	1526.5	1530.9	1538.2	1549.6	1560.7	1570.6	1584.0	1588.1	1586.9	1578.6
2.5°	1515.6	1517.8	1523.9	1533.3	1547.6	1561.9	1574.5	1589.8	1594.6	1593.2	1583.7
3°	1506.4	1509.1	1516.1	1528.5	1545.4	1562.9	1578.4	1595.1	1601.4	1599.2	1587.8
3.5°	1497.0	1500.1	1508.9	1523.2	1543.3	1563.6	1582.0	1600.7	1607.4	1605.0	1591.9
4°	1487.3	1490.7	1500.9	1517.8	1540.4	1564.1	1585.2	1605.5	1613.3	1610.6	1595.8
4.5°	1477.4	1481.0	1492.6	1512.0	1537.4	1564.3	1588.3	1610.4	1618.8	1615.7	1599.7
5°	1467.2	1471.6	1484.2	1506.0	1534.1	1564.1	1590.7	1614.7	1624.4	1620.8	1602.8
5.5°	1457.0	1461.6	1475.9	1499.7	1530.7	1563.8	1593.2	1618.8	1629.5	1625.4	1606.0
6°	1446.6	1451.2	1467.0	1492.9	1526.8	1562.9	1595.3	1622.7	1634.1	1629.7	1608.7
6.5°	1435.9	1440.8	1458.0	1486.1	1522.7	1561.9	1597.0	1626.1	1638.5	1633.9	1611.3
7°	1424.8	1430.4	1448.5	1479.1	1518.5	1560.7	1598.5	1629.5	1642.8	1637.5	1613.3
7.5°	1414.1	1420.0	1439.3	1471.8	1513.7	1559.2	1599.7	1632.4	1646.7	1641.1	1615.2
8°	1402.8	1408.8	1429.7	1464.3	1508.9	1557.1	1600.7	1635.1	1650.3	1644.3	1616.7
8.5°	1391.4	1397.9	1420.0	1456.5	1503.8	1555.1	1601.2	1637.2	1653.5	1647.2	1617.9
9°	1379.5	1386.5	1409.5	1448.5	1498.2	1552.7	1601.4	1639.4	1656.4	1649.6	1619.1
9.5°	1368.1	1375.1	1399.6	1440.3	1492.6	1550.0	1601.4	1641.1	1659.0	1651.8	1619.6
10°	1356.3	1363.5	1389.2	1431.6	1486.8	1546.9	1601.2	1642.3	1661.2	1653.7	1620.0
10.5°	1344.1	1351.9	1378.5	1423.4	1480.5	1543.5	1600.7	1643.5	1663.2	1655.4	1620.0
11°	1332.0	1340.0	1367.6	1414.4	1474.0	1540.1	1599.7	1644.3	1664.9	1656.6	1619.8
11.5°	1319.9	1328.2	1357.0	1405.2	1467.4	1536.2	1598.7	1644.8	1666.3	1657.8	1619.1
12°	1307.6	1315.8	1345.8	1395.7	1460.7	1532.4	1597.3	1644.8	1667.3	1658.3	1618.3
12.5°	1294.7	1303.7	1334.5	1386.5	1453.4	1528.0	1595.3	1644.8	1668.0	1658.8	1617.1
13°	1281.9	1291.1	1323.1	1376.6	1446.1	1523.4	1593.4	1644.3	1668.5	1658.8	1615.7
13.5°	1269.5	1278.5	1311.7	1367.2	1438.9	1518.5	1591.0	1643.5	1668.5	1658.6	1614.0
14°	1256.7	1266.1	1300.1	1357.0	1430.6	1513.5	1588.3	1642.3	1668.2	1657.8	1611.8
14.5°	1243.6	1253.3	1288.2	1346.8	1422.6	1507.9	1585.4	1641.1	1667.5	1656.9	1609.4
15°	1230.8	1240.7	1276.1	1336.4	1414.6	1502.3	1582.3	1639.2	1666.6	1655.7	1606.7
15.5°	1217.2	1227.6	1264.0	1325.7	1406.2	1496.3	1578.6	1637.2	1665.3	1654.2	1603.8
16°	1204.1	1214.5	1251.9	1315.1	1397.4	1490.2	1575.0	1634.8	1663.6	1652.3	1600.4
16.5°	1190.8	1201.5	1239.7	1304.4	1388.5	1483.7	1570.9	1632.2	1662.0	1650.1	1596.8
17°	1177.5	1188.6	1227.6	1293.3	1379.5	1477.1	1566.5	1629.2	1659.5	1647.4	1592.9
17.5°	1163.9	1175.3	1214.8	1282.4	1370.3	1470.3	1561.9	1625.9	1656.9	1644.5	1588.6
18°	1150.4	1162.0	1202.4	1270.7	1360.9	1463.1	1557.1	1622.2	1654.0	1641.1	1584.2
18.5°	1136.8	1148.4	1189.6	1259.6	1350.9	1455.8	1551.7	1618.1	1650.6	1637.5	1579.3
19°	1123.5	1135.1	1177.0	1248.0	1341.2	1448.1	1546.2	1613.7	1646.9	1633.6	1574.0
19.5°	1109.4	1121.5	1164.2	1236.3	1331.3	1440.3	1540.4	1609.1	1643.1	1629.2	1568.4
20°	1096.3	1108.2	1151.1	1224.7	1321.1	1432.1	1534.3	1604.1	1638.5	1624.2	1562.6
20.5°	1082.3	1094.9	1138.2	1212.6	1310.5	1423.8	1528.0	1598.7	1633.6	1619.1	1556.6
21°	1068.7	1081.3	1125.2	1200.5	1300.1	1415.1	1521.0	1592.9	1628.3	1613.7	1549.8



TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1027.1	1040.1	1085.7	1163.9	1267.4	1387.5	1498.9	1572.8	1609.4	1594.1	1527.5
23°	1013.3	1026.6	1072.4	1151.3	1256.0	1377.8	1490.7	1565.1	1602.1	1586.6	1519.3
23.5°	999.4	1012.5	1058.8	1138.7	1244.3	1367.9	1482.0	1557.1	1594.1	1578.6	1510.6
24°	985.6	999.0	1046.0	1126.1	1232.7	1357.5	1473.0	1547.9	1585.6	1569.7	1501.1
24.5°	971.6	985.2	1032.1	1113.3	1220.8	1346.6	1463.3	1538.4	1576.4	1560.5	1491.2
25°	957.5	971.3	1018.8	1100.2	1208.5	1335.4	1453.1	1528.5	1566.8	1550.5	1480.8
25.5°	943.7	957.3	1005.3	1087.1	1195.7	1323.6	1442.5	1518.5	1556.8	1540.8	1470.1
26°	929.9	944.0	991.7	1074.1	1183.3	1311.7	1431.6	1507.6	1546.6	1529.9	1459.0
26.5°	916.1	930.2	978.1	1061.0	1170.2	1299.3	1420.2	1496.7	1536.2	1519.5	1448.1
27°	902.6	916.4	964.8	1047.7	1157.1	1287.5	1409.1	1486.1	1525.6	1509.1	1436.7
27.5°	888.5	902.6	951.2	1034.1	1144.5	1275.3	1397.7	1475.7	1514.9	1498.2	1425.5
28°	874.5	889.0	937.4	1020.8	1131.7	1263.2	1386.5	1464.5	1504.0	1487.3	1414.4
28.5°	860.4	874.9	923.9	1007.4	1119.1	1250.9	1374.7	1453.9	1493.6	1476.9	1403.5
29°	846.8	861.4	910.8	994.4	1106.5	1239.0	1363.5	1443.0	1482.7	1466.0	1392.1
29.5°	833.3	847.6	897.2	981.3	1094.2	1227.1	1352.1	1432.6	1472.3	1455.3	1381.2
30°	819.5	834.0	883.7	968.7	1082.0	1215.5	1341.2	1422.4	1462.4	1445.4	1371.0
30.5°	805.4	820.4	870.3	955.6	1069.5	1203.9	1330.6	1412.7	1452.9	1435.9	1360.9
31°	791.9	806.9	857.5	943.0	1057.1	1192.5	1320.4	1402.0	1442.5	1425.0	1349.2
31.5°	778.3	793.3	844.4	929.7	1043.5	1179.4	1308.3	1389.0	1430.1	1412.5	1335.9
32°	764.7	780.0	831.1	916.6	1029.5	1165.6	1294.7	1373.9	1415.6	1397.7	1320.4
32.5°	750.7	766.2	818.0	902.6	1014.5	1149.9	1279.5	1358.0	1399.1	1381.0	1303.9
33°	737.4	753.1	804.5	889.0	999.2	1133.9	1263.0	1339.3	1380.5	1362.6	1286.2
33.5°	724.3	740.0	791.4	874.5	983.0	1116.4	1244.8	1319.7	1360.4	1342.7	1266.9
34°	710.7	726.7	777.6	859.4	966.7	1098.8	1225.9	1297.9	1338.6	1321.6	1247.0
34.5°	697.4	713.6	763.8	844.7	950.3	1080.4	1205.6	1275.6	1315.6	1299.1	1226.2
35°	683.8	700.3	749.9	829.9	933.6	1061.0	1184.8	1251.1	1291.1	1274.9	1204.9
35.5°	670.5	687.0	736.1	814.6	916.1	1041.8	1162.5	1226.2	1265.2	1250.6	1182.3
36°	657.7	673.6	722.3	799.4	898.9	1022.2	1140.2	1200.0	1238.3	1224.7	1158.6
36.5°	644.3	660.6	708.5	783.9	881.0	1001.9	1117.4	1173.9	1210.7	1197.8	1134.4
37°	631.5	647.5	694.7	768.8	863.3	981.0	1092.7	1145.8	1182.3	1170.2	1109.9
37.5°	618.2	634.2	680.4	753.3	845.4	960.4	1068.5	1117.7	1153.5	1141.6	1084.5
38°	605.3	621.1	666.6	737.6	827.0	939.1	1043.0	1089.6	1124.2	1113.1	1058.8
38.5°	592.3	607.5	652.6	721.6	809.1	918.3	1017.9	1062.4	1094.6	1084.2	1032.4
39°	579.4	594.7	638.5	706.1	791.6	896.7	992.7	1032.9	1064.1	1054.9	1006.0
39.5°	566.8	581.6	624.7	690.6	773.2	874.9	967.0	1004.5	1033.8	1024.9	979.3
40°	554.0	568.5	610.2	674.9	754.6	853.1	941.3	975.5	1003.8	995.3	952.5
40.5°	541.1	555.4	596.4	658.6	736.4	831.6	915.2	947.9	973.5	966.0	925.3
41°	528.5	542.6	582.3	643.1	718.0	809.8	890.0	919.3	944.5	937.0	898.7
41.5°	515.7	529.8	568.8	627.6	700.0	787.7	864.8	890.9	914.4	907.9	872.0
42°	502.9	516.9	555.0	612.1	681.6	766.2	839.8	863.8	886.1	879.1	845.9
42.5°	490.5	504.3	541.1	597.1	663.5	744.6	815.4	837.2	857.7	851.0	820.0
43°	477.9	491.7	528.1	581.8	645.5	723.8	790.6	811.0	830.1	824.1	794.3
43.5°	465.6	479.1	514.7	566.8	627.4	702.7	766.7	785.3	803.0	796.7	768.8



TEST NUMBER: P776160

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	428.3	442.1	475.3	522.3	574.8	641.4	698.1	712.4	727.4	721.9	697.6
45.5°	416.2	429.5	462.4	508.0	557.9	622.1	676.3	689.9	703.9	697.9	674.6
46°	404.3	417.6	449.6	493.9	541.1	603.2	655.2	667.8	681.4	675.6	652.3
46.5°	392.7	406.0	437.5	479.9	524.9	584.0	634.6	646.3	659.6	653.5	630.8
47°	380.8	393.9	424.6	465.3	508.7	565.4	614.5	626.4	639.0	632.7	610.7
47.5°	369.2	382.7	412.3	452.2	492.9	547.7	595.2	607.0	619.6	612.8	590.8
48°	357.8	371.3	400.2	438.4	477.9	531.0	576.5	588.4	600.7	594.2	571.7
48.5°	346.6	360.2	388.1	425.1	463.4	514.0	558.8	570.5	582.3	575.5	553.0
49°	335.2	349.5	376.4	412.0	448.6	497.3	541.1	553.5	565.6	558.6	535.8
49.5°	325.1	338.9	364.6	399.4	434.1	482.0	524.7	536.8	548.9	541.1	518.4
50°	314.2	328.2	353.2	386.6	420.3	466.8	508.4	521.0	532.9	525.4	502.1
50.5°	303.8	318.3	341.8	374.0	406.9	451.8	492.5	505.5	517.4	509.7	486.4
51°	293.8	307.9	330.9	361.9	393.9	437.2	477.4	491.0	502.6	494.6	471.4
51.5°	284.4	298.2	320.0	350.3	381.3	423.4	463.1	476.7	488.6	480.6	456.8
52°	274.9	288.3	309.1	338.9	368.9	409.9	448.9	463.4	474.8	466.5	442.8
52.5°	266.0	279.1	298.9	327.5	357.0	397.3	435.3	449.8	461.7	453.0	429.0
53°	257.7	269.8	288.7	316.4	345.4	384.4	422.0	437.2	448.9	440.1	415.9
53.5°	249.7	260.9	278.8	305.7	334.3	372.1	409.4	424.9	436.5	427.5	403.1
54°	242.5	252.2	269.1	295.3	323.4	360.0	397.0	412.8	424.6	415.4	391.2
54.5°	235.9	243.9	259.7	285.6	313.0	348.8	384.9	401.1	412.8	403.6	379.3
55°	229.9	236.2	250.7	275.7	302.5	337.4	373.5	389.8	401.1	392.2	367.7
55.5°	224.3	228.4	242.0	266.5	292.6	326.5	362.4	378.6	390.0	381.0	356.6
56°	219.2	221.4	233.5	257.0	282.7	316.1	351.2	367.9	378.9	370.4	345.7
56.5°	215.3	214.6	225.5	248.3	273.2	305.7	340.6	357.3	367.9	359.2	335.0
57°	210.7	208.3	217.5	239.6	263.8	295.5	330.2	346.9	357.3	348.8	324.8
57.5°	205.4	202.5	210.0	231.1	254.8	285.8	320.0	336.9	346.9	338.9	314.9
58°	200.1	197.7	202.7	222.9	246.1	276.6	310.1	326.8	336.5	329.0	305.2
58.5°	194.8	192.8	195.7	215.1	237.6	267.4	300.6	316.8	326.0	318.8	295.3
59°	189.4	188.0	188.9	207.4	229.4	258.5	290.9	307.1	316.1	308.8	286.1
59.5°	183.9	182.9	182.6	199.8	221.4	249.7	281.7	297.5	306.2	299.2	276.9
60°	178.5	178.0	176.3	192.6	213.4	241.3	272.8	288.3	296.7	290.0	267.9
60.5°	173.2	173.0	170.5	185.5	206.1	233.3	263.5	279.1	287.0	280.5	259.2
61°	168.1	167.9	164.7	178.5	198.9	225.0	254.8	270.1	277.8	271.5	250.5
61.5°	163.0	163.0	159.1	172.0	191.4	217.0	246.3	261.1	268.6	262.8	242.2
62°	158.2	158.2	154.1	165.4	184.1	209.8	238.4	252.4	259.7	254.3	234.0
62.5°	153.1	153.3	149.0	159.1	177.6	202.3	230.1	243.7	251.0	245.1	226.0
63°	148.5	148.7	144.1	153.1	170.8	195.0	222.1	235.4	242.2	236.9	218.3
63.5°	143.6	144.1	139.5	147.3	164.2	187.7	214.4	227.5	233.8	228.7	210.7
64°	139.3	139.5	135.4	141.7	157.9	180.5	206.9	219.2	225.5	220.7	203.2
64.5°	134.7	135.2	131.3	136.4	151.6	173.7	199.4	211.7	217.5	212.9	196.0
65°	130.3	131.0	127.4	131.0	145.8	167.1	191.8	204.2	209.8	205.4	188.5
65.5°	126.2	126.7	123.5	126.0	140.0	160.6	184.6	196.7	202.0	197.9	180.9
66°	121.8	122.6	119.7	121.1	134.2	154.1	177.8	189.2	194.5	190.4	174.2



TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	109.7	110.7	108.3	107.3	118.2	136.1	157.7	167.4	171.5	168.4	154.1
68°	106.1	106.8	104.9	103.2	112.9	130.3	151.2	160.4	164.2	161.3	147.5
68.5°	102.2	102.9	101.3	99.1	108.0	124.7	144.6	153.8	157.5	154.8	141.5
69°	98.6	99.3	97.6	95.2	103.4	119.2	138.6	147.0	150.4	148.0	135.2
69.5°	94.7	95.7	94.2	91.3	98.8	114.1	132.5	140.7	143.9	141.5	129.4
70°	91.3	92.0	90.8	87.4	94.2	109.0	126.7	134.4	137.1	135.2	123.5
70.5°	87.7	88.7	87.2	84.1	90.1	103.9	120.9	128.4	130.8	129.4	118.0
71°	84.3	85.3	84.1	80.9	85.7	99.1	115.5	122.3	124.5	123.1	112.2
71.5°	81.1	82.1	81.1	77.8	81.9	94.2	110.0	116.8	118.5	117.2	106.8
72°	78.0	79.0	78.0	74.6	77.8	89.6	104.6	110.7	112.2	111.4	101.5
72.5°	74.6	75.6	75.1	71.2	73.9	85.3	99.3	105.4	106.3	105.6	96.2
73°	71.5	72.4	71.9	68.3	70.2	80.9	94.2	99.8	100.5	100.3	91.1
73.5°	68.3	69.3	68.8	65.4	66.6	76.5	89.1	94.5	95.0	95.0	86.5
74°	65.4	66.1	65.9	62.7	63.2	72.4	84.5	89.4	89.6	89.9	81.6
74.5°	62.3	63.2	63.0	59.8	59.8	68.6	79.7	84.5	84.1	84.8	76.8
75°	59.3	60.3	60.3	57.2	56.7	64.7	75.1	79.5	79.0	79.7	72.4
75.5°	56.4	57.4	57.4	54.7	53.8	61.0	70.7	74.8	73.9	75.1	68.1
76°	53.8	54.5	54.7	52.1	50.6	57.4	66.4	70.2	68.8	70.5	63.7
76.5°	50.9	51.8	52.1	49.7	48.0	53.8	62.3	65.6	63.9	65.9	59.6
77°	48.2	48.9	49.4	47.2	45.1	50.6	58.4	61.3	59.3	61.5	55.7
77.5°	45.5	46.3	46.8	44.8	42.4	47.2	54.3	57.2	54.7	57.4	51.8
78°	42.9	43.8	44.3	42.4	40.0	44.3	50.6	53.0	50.4	53.3	48.0
78.5°	40.5	41.2	41.7	40.2	37.3	41.2	47.0	49.2	46.0	49.2	44.6
79°	37.8	38.8	39.2	37.8	35.1	38.3	43.4	45.3	41.9	45.5	40.9
79.5°	35.4	36.3	36.8	35.6	32.7	35.6	40.0	41.7	38.0	41.7	37.8
80°	32.9	33.7	34.4	33.4	30.5	32.9	36.6	38.0	34.2	38.3	34.4
80.5°	30.8	31.2	32.2	31.2	28.3	30.3	33.7	34.4	30.5	34.6	31.2
81°	28.3	29.1	30.0	29.3	26.2	27.9	30.5	31.0	26.9	31.2	28.3
81.5°	26.2	26.9	27.9	27.1	24.2	25.4	27.6	27.6	23.7	28.1	25.4
82°	24.0	24.5	25.7	25.2	22.3	23.0	24.9	24.7	20.6	25.2	23.0
82.5°	21.8	22.3	23.5	23.0	20.3	21.1	22.5	21.8	17.7	22.3	20.6
83°	19.6	20.3	21.6	21.1	18.7	19.1	20.1	18.9	14.5	19.4	17.9
83.5°	17.4	18.2	19.4	19.4	17.0	17.0	17.7	16.0	11.4	16.5	15.5
84°	15.5	16.0	17.4	17.4	15.0	15.0	15.3	13.1	9.0	13.6	13.1
84.5°	13.6	14.0	15.5	15.5	13.3	13.1	12.8	10.4	6.8	10.7	11.1
85°	11.6	12.1	13.6	13.8	11.6	11.4	10.9	8.2	5.1	8.2	9.2
85.5°	9.7	9.9	11.9	11.9	9.9	9.7	9.2	6.5	3.9	6.5	7.5
86°	8.2	8.7	10.2	10.2	8.5	8.0	7.5	4.8	3.1	4.8	5.8
86.5°	6.8	7.3	8.5	8.7	7.0	6.5	5.8	3.4	2.4	3.4	4.4
87°	5.3	5.8	7.0	7.0	5.6	5.1	4.4	2.2	1.7	2.2	3.1
87.5°	3.9	4.4	5.6	5.6	4.1	3.6	3.1	1.2	1.2	1.2	1.9
88°	2.7	3.1	4.1	3.9	2.9	2.4	1.9	0.5	0.5	0.5	1.0
88.5°	1.7	1.9	2.4	2.4	1.5	1.2	1.0	0.2	0.2	0.2	0.2



TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4
0.5°	1557.8	1554.4	1549.8	1545.7	1550.5	1550.3
1°	1560.7	1554.4	1546.6	1540.1	1543.0	1542.0
1.5°	1563.4	1554.4	1543.3	1534.1	1535.3	1533.6
2°	1566.0	1553.7	1539.6	1527.5	1527.3	1524.6
2.5°	1568.2	1552.9	1535.5	1520.7	1519.0	1515.6
3°	1570.1	1551.7	1531.4	1514.2	1510.6	1506.4
3.5°	1571.6	1550.3	1526.8	1507.2	1502.1	1497.0
4°	1573.1	1548.8	1522.2	1499.9	1493.1	1487.3
4.5°	1574.0	1546.9	1517.1	1492.1	1483.9	1477.4
5°	1574.5	1544.7	1512.0	1484.2	1474.7	1467.2
5.5°	1575.0	1542.3	1506.2	1476.2	1465.0	1457.0
6°	1575.2	1539.4	1500.6	1467.9	1455.3	1446.6
6.5°	1575.0	1536.2	1494.6	1459.2	1445.4	1435.9
7°	1574.5	1533.1	1488.0	1450.7	1435.0	1424.8
7.5°	1573.8	1529.2	1481.5	1441.3	1424.8	1414.1
8°	1572.8	1525.3	1474.7	1432.3	1414.1	1402.8
8.5°	1571.6	1521.2	1467.4	1422.6	1403.5	1391.4
9°	1569.9	1516.6	1459.9	1413.2	1392.3	1379.5
9.5°	1568.0	1511.8	1452.2	1403.0	1381.2	1368.1
10°	1565.8	1506.9	1444.4	1393.3	1370.1	1356.3
10.5°	1563.4	1501.6	1436.4	1382.9	1358.7	1344.1
11°	1560.5	1495.8	1428.2	1372.7	1347.0	1332.0
11.5°	1557.5	1490.0	1419.5	1361.8	1335.2	1319.9
12°	1553.9	1483.9	1410.8	1351.2	1323.3	1307.6
12.5°	1550.5	1477.6	1401.8	1340.3	1311.2	1294.7
13°	1546.4	1471.1	1392.8	1329.1	1299.1	1281.9
13.5°	1542.3	1464.3	1383.4	1318.0	1287.0	1269.5
14°	1537.7	1457.3	1373.7	1306.4	1274.4	1256.7
14.5°	1533.1	1450.0	1363.8	1294.7	1262.0	1243.6
15°	1528.0	1442.2	1354.1	1283.3	1249.2	1230.8
15.5°	1522.7	1434.5	1343.7	1271.0	1236.3	1217.2
16°	1517.1	1426.3	1333.5	1259.1	1223.5	1204.1
16.5°	1511.3	1418.3	1323.1	1246.8	1210.4	1190.8
17°	1505.0	1409.5	1312.2	1234.9	1197.6	1177.5
17.5°	1498.7	1400.8	1301.5	1222.8	1184.5	1163.9
18°	1491.9	1391.9	1290.4	1209.9	1171.4	1150.4
18.5°	1485.1	1382.7	1279.2	1197.4	1158.1	1136.8
19°	1477.6	1373.2	1267.8	1185.0	1144.5	1123.5
19.5°	1470.1	1363.8	1256.5	1172.4	1131.2	1109.4
20°	1462.4	1353.6	1244.8	1159.6	1117.9	1096.3
20.5°	1454.1	1343.9	1233.2	1146.5	1104.6	1082.3
21°	1445.9	1333.5	1221.1	1133.6	1091.0	1068.7

TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1419.0	1301.5	1184.8	1094.4	1050.3	1027.1
23°	1409.3	1290.1	1172.2	1081.1	1036.3	1013.3
23.5°	1398.9	1278.7	1159.6	1068.0	1022.9	999.4
24°	1388.5	1267.1	1146.7	1054.2	1009.4	985.6
24.5°	1377.3	1255.0	1133.9	1041.4	995.3	971.6
25°	1365.7	1242.4	1120.8	1027.5	981.5	957.5
25.5°	1354.1	1230.1	1107.7	1014.0	968.0	943.7
26°	1342.0	1217.5	1094.4	1000.7	954.2	929.9
26.5°	1330.1	1204.4	1081.1	987.3	940.3	916.1
27°	1318.2	1191.3	1067.5	973.5	926.8	902.6
27.5°	1306.1	1178.7	1054.2	959.7	912.7	888.5
28°	1294.0	1166.1	1040.9	946.2	899.2	874.5
28.5°	1282.1	1153.3	1028.0	933.1	885.1	860.4
29°	1270.5	1140.9	1015.0	919.5	871.8	846.8
29.5°	1259.1	1128.8	1002.4	906.4	858.0	833.3
30°	1248.0	1116.7	989.5	892.9	844.4	819.5
30.5°	1236.3	1104.6	976.4	879.8	830.9	805.4
31°	1223.3	1091.5	963.1	866.7	817.5	791.9
31.5°	1209.5	1077.9	950.0	853.4	804.0	778.3
32°	1194.0	1062.9	936.0	840.1	790.4	764.7
32.5°	1177.5	1047.4	921.7	826.5	776.8	750.7
33°	1160.0	1031.9	907.2	812.9	763.8	737.4
33.5°	1142.1	1015.2	892.4	799.4	750.4	724.3
34°	1123.5	998.5	877.1	785.6	737.1	710.7
34.5°	1104.6	981.5	861.6	771.5	723.8	697.4
35°	1085.2	964.1	846.1	757.5	710.7	683.8
35.5°	1065.1	946.6	830.6	743.2	697.1	670.5
36°	1044.7	928.7	814.9	729.4	684.1	657.7
36.5°	1023.7	911.0	799.1	715.1	670.7	644.3
37°	1002.4	892.6	782.9	700.5	657.4	631.5
37.5°	980.8	874.5	767.1	686.2	644.1	618.2
38°	959.0	855.6	750.9	672.0	630.8	605.3
38.5°	937.2	837.2	734.9	657.7	617.4	592.3
39°	915.2	818.3	719.2	643.6	604.1	579.4
39.5°	892.9	799.6	702.7	629.3	591.0	566.8
40°	869.6	780.7	686.7	615.0	578.0	554.0
40.5°	846.8	761.6	670.7	601.0	564.6	541.1
41°	824.6	742.4	654.8	586.9	551.6	528.5
41.5°	801.8	723.5	638.8	572.6	538.2	515.7
42°	779.3	704.9	623.0	559.1	525.4	502.9
42.5°	756.2	685.5	607.5	545.5	512.6	490.5
43°	734.0	667.1	591.8	531.5	500.0	477.9
43.5°	711.9	648.5	575.8	517.6	487.4	465.6



TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	648.0	593.7	530.0	477.4	449.3	428.3
45.5°	626.9	575.5	514.7	464.1	437.2	416.2
46°	607.3	558.1	500.0	451.3	424.9	404.3
46.5°	586.9	540.7	485.2	438.4	413.0	392.7
47°	567.8	523.9	470.7	425.4	401.1	380.8
47.5°	549.1	507.0	456.1	412.5	389.5	369.2
48°	531.5	490.8	442.3	400.2	378.1	357.8
48.5°	513.5	474.8	428.3	387.6	366.5	346.6
49°	496.3	459.5	414.7	375.7	355.6	335.2
49.5°	480.1	444.5	401.1	363.6	344.7	325.1
50°	464.4	429.5	388.1	351.7	333.8	314.2
50.5°	448.6	414.9	375.0	339.9	323.4	303.8
51°	434.1	401.1	362.6	328.7	312.5	293.8
51.5°	420.0	387.8	350.3	317.3	302.5	284.4
52°	406.2	374.7	338.4	306.9	292.6	274.9
52.5°	392.7	362.1	326.8	296.0	282.7	266.0
53°	379.8	349.8	315.4	285.6	273.0	257.7
53.5°	367.2	337.9	304.5	275.4	263.5	249.7
54°	355.6	326.5	293.6	265.7	254.3	242.5
54.5°	344.0	315.6	283.4	256.0	245.6	235.9
55°	332.6	304.5	273.5	246.8	237.4	229.9
55.5°	321.9	294.3	263.8	237.9	229.4	224.3
56°	311.3	284.4	254.3	229.4	221.6	219.2
56.5°	301.1	274.4	245.1	221.2	214.4	215.3
57°	291.2	264.8	236.4	212.9	207.8	210.7
57.5°	281.5	255.8	227.9	205.4	201.3	205.4
58°	272.3	247.1	219.7	198.1	195.5	200.1
58.5°	263.1	238.4	211.7	191.1	190.2	194.8
59°	254.1	229.6	204.0	184.3	185.3	189.4
59.5°	245.6	221.9	196.4	177.6	180.7	183.9
60°	237.1	213.9	189.2	171.5	175.9	178.5
60.5°	228.9	206.1	182.2	165.4	171.0	173.2
61°	220.9	198.1	175.4	159.6	166.2	168.1
61.5°	213.4	191.1	168.6	154.1	161.3	163.0
62°	205.9	184.1	162.1	149.0	156.7	158.2
62.5°	198.6	177.3	156.0	143.6	151.9	153.1
63°	191.1	170.3	149.9	138.8	147.3	148.5
63.5°	183.9	163.7	144.1	134.2	142.9	143.6
64°	176.8	157.5	138.3	129.6	138.3	139.3
64.5°	170.3	151.2	133.0	125.2	134.2	134.7
65°	163.3	145.1	127.7	121.4	129.8	130.3
65.5°	157.0	139.3	122.6	117.5	125.7	126.2
66°	150.7	133.5	117.7	113.8	121.6	121.8



TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	132.7	117.5	103.9	102.9	109.5	109.7
68°	127.2	112.4	99.6	99.6	105.9	106.1
68.5°	121.6	107.3	95.4	96.2	102.0	102.2
69°	116.3	102.7	91.6	92.5	98.6	98.6
69.5°	110.9	98.1	87.7	89.4	95.0	94.7
70°	105.9	93.5	84.3	86.2	91.3	91.3
70.5°	100.8	89.1	80.9	83.1	87.9	87.7
71°	95.9	85.3	77.5	80.2	84.8	84.3
71.5°	91.3	81.4	74.1	77.0	81.4	81.1
72°	86.7	77.5	70.5	73.9	78.2	78.0
72.5°	82.4	73.6	67.6	70.7	75.1	74.6
73°	78.0	69.5	64.4	67.8	71.9	71.5
73.5°	73.9	66.1	61.5	64.9	68.8	68.3
74°	69.8	62.5	58.9	62.3	65.6	65.4
74.5°	65.9	59.1	56.0	59.3	62.7	62.3
75°	62.0	56.0	53.3	56.4	59.8	59.3
75.5°	58.4	52.8	50.9	53.8	56.9	56.4
76°	54.7	49.9	48.2	51.1	54.0	53.8
76.5°	51.4	47.0	45.8	48.7	51.4	50.9
77°	48.2	44.1	43.4	46.0	48.7	48.2
77.5°	45.1	41.4	41.2	43.6	45.8	45.5
78°	41.9	38.8	39.0	41.2	43.4	42.9
78.5°	39.0	36.3	36.6	38.8	40.7	40.5
79°	36.1	33.9	34.6	36.3	38.3	37.8
79.5°	33.4	31.5	32.5	34.2	35.9	35.4
80°	30.5	29.3	30.3	31.7	33.4	32.9
80.5°	28.1	27.1	28.3	29.6	31.0	30.8
81°	25.7	24.9	26.4	27.4	28.8	28.3
81.5°	23.3	23.0	24.2	25.2	26.4	26.2
82°	21.3	21.1	22.3	23.3	24.2	24.0
82.5°	19.1	19.1	20.3	21.1	22.0	21.8
83°	17.2	17.2	18.7	19.1	19.9	19.6
83.5°	15.0	15.5	16.7	17.2	17.9	17.4
84°	13.1	13.8	15.0	15.3	15.7	15.5
84.5°	11.1	12.1	13.3	13.6	13.8	13.6
85°	9.4	10.7	11.6	11.9	11.9	11.6
85.5°	7.8	9.0	9.9	10.2	9.9	9.7
86°	6.3	7.5	8.2	8.5	8.5	8.2
86.5°	4.8	6.1	6.8	7.0	7.3	6.8
87°	3.6	4.6	5.3	5.6	5.8	5.3
87.5°	2.2	3.4	3.9	3.9	4.4	3.9
88°	1.2	1.9	2.2	2.4	3.1	2.7
88.5°	0.2	0.7	1.0	1.2	1.9	1.7



TEST NUMBER: P776160

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-2700K

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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1054.7	1067.5	1111.6	1188.4	1289.4	1406.2	1513.9	1586.6	1622.5	1607.4	1542.5
22°	1040.9	1053.7	1098.8	1176.3	1278.5	1396.9	1506.7	1579.8	1616.2	1601.2	1535.3



44°	453.0	466.5	501.7	551.3	609.7	681.9	743.4	760.1	776.6	771.0	744.1
44.5°	440.6	454.2	488.3	537.3	592.3	661.3	720.6	735.9	751.6	745.3	720.4



66.5°	117.7	118.5	115.8	116.3	128.6	147.8	171.0	181.7	186.8	182.9	167.4
67°	113.8	114.6	112.2	111.7	123.3	141.9	164.2	174.4	179.0	175.4	160.6



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°	1436.9	1323.1	1209.2	1120.6	1077.4	1054.7
22°	1428.0	1311.9	1196.9	1107.5	1063.9	1040.9



44°	690.1	629.8	560.5	504.3	474.3	453.0
44.5°	669.0	611.4	545.3	490.8	461.9	440.6



66.5°	144.6	128.1	112.9	110.2	117.5	117.7
67°	138.6	122.8	108.3	106.6	113.6	113.8

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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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)