

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: P776197

Luminaire Tested: HCDJBL51525CSD-HCD8TRMW-2500lm-3500K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776197  
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: HCDJBL51525CSD-HCD8TRMW-2500lm-3500K  
Description: 8 INCH ROUND MEDIUM MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

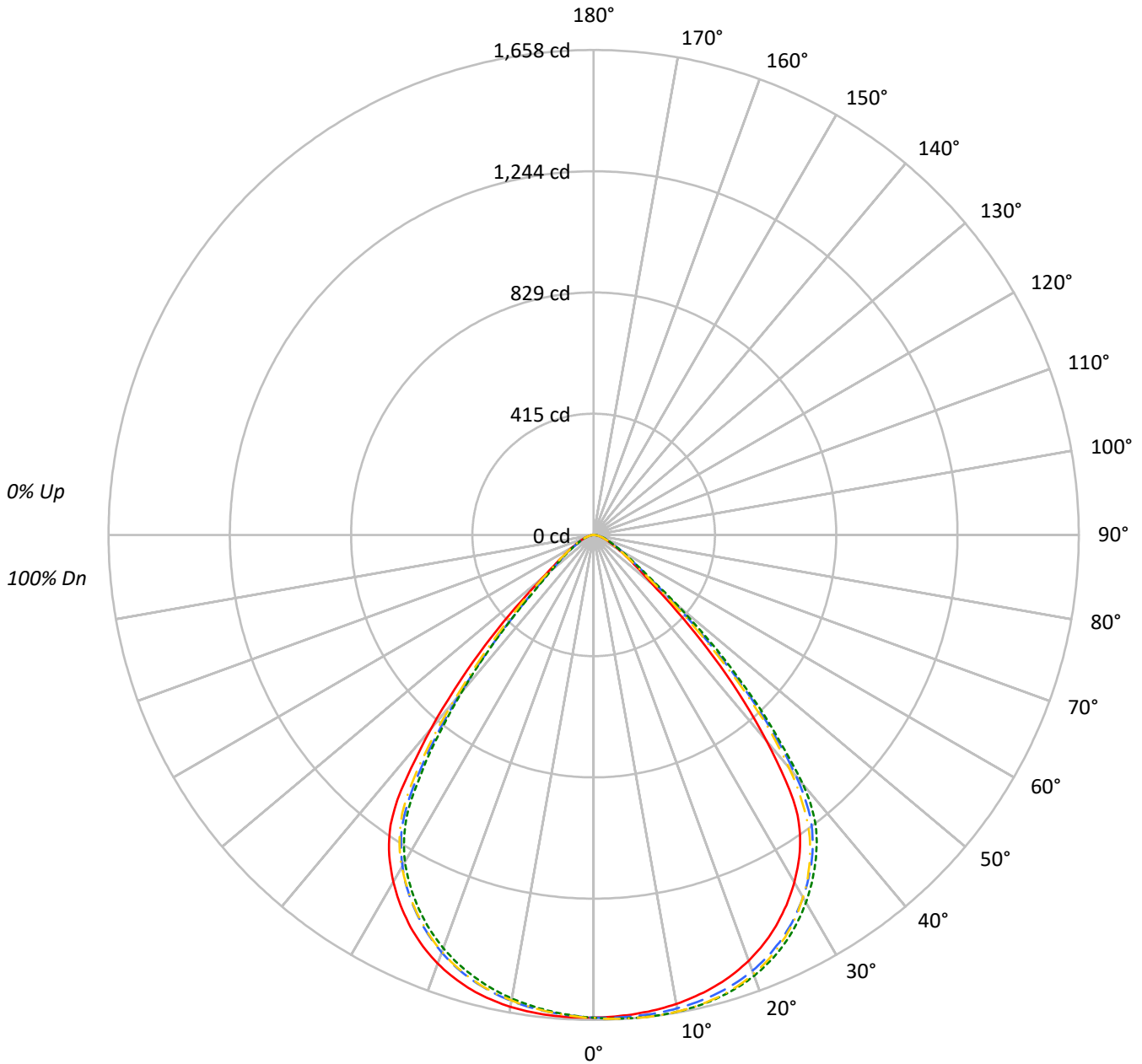
Lumens per Lamp: N/A  
Luminaire Lumens: 2673.9 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P776197  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P776197  
 CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-3500K

**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	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74					74			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42					42			
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39					39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	50399	50399	50399	50399
5°	50377	50791	50552	50129
10°	50470	51301	50789	49887
15°	50521	51814	50894	49516
20°	50326	52110	50651	48835
25°	49674	51951	49849	47569
30°	48343	51142	48262	45477
35°	45716	49443	45071	39745
40°	36706	44342	34458	27914
45°	23825	31247	21312	15522
50°	12620	17754	10976	8977
55°	8234	9432	7005	6270
60°	5911	6564	5068	4714
65°	4580	5071	3952	3749
70°	3696	4187	3178	3017
75°	3043	3574	2548	2395
80°	2426	3130	1899	1758
85°	1751	2907	1051	876

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 31899 cd/sqm



TEST NUMBER: P776197

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.8	5.9
10°-20°	452.5	16.9
20°-30°	678.7	25.4
30°-40°	734.7	27.5
40°-50°	418.4	15.6
50°-60°	138.9	5.2
60°-70°	61.3	2.3
70°-80°	26.7	1.0
80°-90°	5.9	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°	1288.0	48.2
0°-40°	2022.6	75.6
0°-60°	2579.9	96.5
0°-90°	2673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1651	1651	1651	1651	1651	
5°	1644	1657	1650	1636	1644	156
15°	1598	1639	1610	1567	1598	451
25°	1475	1542	1480	1412	1475	678
35°	1227	1327	1209	1066	1227	747
45°	552	724	494	360	552	429
55°	155	177	132	118	155	144
65°	63	70	55	52	63	64
75°	26	30	22	20	26	28
85°	5	8	3	2	5	6
90°	0	1	0	0	0	



TEST NUMBER: P776197

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8
0.5°	1650.0	1650.5	1650.5	1650.8	1651.8	1652.5	1653.3	1652.3	1650.8	1650.0	1649.3
1°	1649.8	1650.5	1650.8	1651.3	1652.8	1653.5	1654.0	1652.8	1651.0	1649.8	1648.5
1.5°	1649.3	1650.3	1651.3	1652.0	1653.5	1654.5	1654.8	1653.3	1651.0	1649.5	1647.8
2°	1648.8	1650.3	1651.5	1652.8	1654.3	1655.6	1655.6	1653.8	1651.0	1649.0	1646.8
2.5°	1648.3	1650.0	1651.8	1653.3	1655.1	1656.1	1656.1	1654.0	1651.0	1648.5	1645.8
3°	1647.5	1649.8	1651.8	1653.8	1655.8	1657.1	1656.6	1654.3	1651.0	1647.8	1644.8
3.5°	1646.5	1649.5	1651.8	1654.3	1656.3	1657.6	1657.3	1654.3	1650.5	1647.3	1643.5
4°	1645.8	1649.0	1651.8	1654.5	1656.8	1658.1	1657.6	1654.5	1650.3	1646.5	1642.3
4.5°	1645.0	1648.3	1651.5	1654.8	1657.1	1658.6	1657.8	1654.5	1650.0	1645.5	1641.0
5°	1643.8	1647.5	1651.3	1654.8	1657.3	1658.8	1658.1	1654.3	1649.5	1644.5	1639.5
5.5°	1642.8	1647.0	1651.0	1655.1	1657.3	1659.1	1658.1	1654.0	1649.0	1643.5	1638.0
6°	1641.5	1646.0	1650.5	1655.1	1657.6	1659.3	1658.3	1653.8	1648.3	1642.3	1636.2
6.5°	1640.3	1645.3	1650.0	1654.8	1657.6	1659.3	1658.3	1653.3	1647.5	1641.0	1634.5
7°	1639.0	1644.0	1649.5	1654.5	1657.6	1659.3	1658.1	1652.8	1646.5	1639.5	1632.5
7.5°	1637.5	1643.0	1648.8	1654.3	1657.3	1659.3	1657.8	1652.3	1645.5	1638.0	1630.5
8°	1635.7	1641.8	1648.0	1653.8	1657.1	1659.1	1657.3	1651.5	1644.3	1636.5	1628.2
8.5°	1634.0	1640.5	1647.0	1653.3	1656.6	1658.8	1656.8	1650.5	1643.0	1634.5	1626.0
9°	1632.2	1639.0	1646.0	1652.5	1656.1	1658.6	1656.3	1649.5	1641.5	1632.7	1623.5
9.5°	1630.2	1637.3	1645.0	1652.0	1655.6	1657.8	1655.6	1648.3	1640.0	1630.5	1620.7
10°	1628.0	1635.5	1643.5	1651.0	1654.8	1657.3	1654.5	1647.0	1638.3	1628.2	1617.7
10.5°	1625.7	1633.7	1642.3	1650.3	1653.8	1656.3	1653.5	1645.5	1636.2	1625.7	1614.9
11°	1623.5	1631.7	1640.8	1649.0	1652.8	1655.3	1652.3	1644.0	1634.0	1623.0	1611.9
11.5°	1620.7	1629.5	1639.3	1648.0	1651.8	1654.3	1651.0	1642.3	1631.7	1620.5	1608.7
12°	1617.9	1627.2	1637.5	1646.8	1650.5	1653.0	1649.5	1640.3	1629.2	1617.4	1604.9
12.5°	1615.2	1625.0	1635.5	1645.3	1649.0	1651.8	1647.8	1638.0	1626.5	1614.2	1601.4
13°	1611.9	1622.2	1633.5	1643.5	1647.5	1650.3	1646.0	1635.5	1623.7	1610.7	1597.4
13.5°	1608.9	1619.5	1631.2	1642.0	1645.5	1648.5	1643.8	1633.0	1620.7	1607.2	1593.4
14°	1605.7	1616.4	1629.0	1640.0	1643.8	1646.5	1641.5	1630.2	1617.4	1603.4	1588.9
14.5°	1602.2	1613.4	1626.5	1638.0	1641.5	1644.5	1639.3	1627.2	1613.9	1599.4	1584.6
15°	1598.4	1610.4	1624.0	1635.7	1639.3	1642.3	1636.8	1624.0	1610.2	1594.9	1579.8
15.5°	1594.4	1606.9	1621.0	1633.2	1636.5	1639.8	1634.0	1620.7	1606.2	1590.4	1574.8
16°	1590.1	1603.4	1617.9	1630.5	1634.0	1637.0	1631.0	1616.9	1601.9	1585.6	1569.6
16.5°	1585.9	1599.6	1614.7	1627.7	1631.0	1634.2	1627.5	1612.9	1597.4	1580.6	1564.3
17°	1581.1	1595.6	1611.4	1624.7	1627.7	1631.2	1624.0	1608.7	1592.9	1575.3	1558.3
17.5°	1576.6	1591.4	1607.7	1621.5	1624.5	1628.0	1620.2	1604.2	1587.9	1570.1	1552.5
18°	1571.6	1587.1	1603.9	1617.7	1621.0	1624.5	1616.2	1599.4	1582.6	1564.1	1546.3
18.5°	1566.3	1582.4	1599.6	1614.2	1616.9	1620.5	1611.7	1594.6	1577.1	1558.0	1540.0
19°	1560.5	1577.6	1595.4	1610.2	1612.7	1616.2	1607.2	1589.4	1571.6	1551.8	1533.2
19.5°	1554.8	1572.6	1590.9	1605.9	1608.4	1612.2	1602.7	1583.9	1565.3	1545.2	1525.9
20°	1549.0	1567.1	1585.6	1601.4	1603.9	1607.4	1597.6	1577.8	1559.0	1538.2	1518.7
20.5°	1542.7	1561.5	1580.8	1596.6	1598.9	1602.4	1592.1	1571.8	1552.5	1531.2	1511.4
21°	1536.2	1555.8	1575.6	1591.9	1593.9	1597.1	1586.4	1565.3	1545.5	1523.7	1503.1



TEST NUMBER: P776197

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1515.2	1536.5	1557.8	1575.1	1576.6	1580.1	1567.6	1544.5	1523.2	1499.9	1478.1
23°	1507.6	1529.7	1551.5	1569.1	1570.6	1573.6	1560.8	1536.7	1515.2	1491.1	1468.8
23.5°	1499.6	1522.7	1544.7	1562.8	1564.1	1567.3	1553.3	1529.0	1506.4	1482.1	1459.5
24°	1491.6	1515.2	1537.5	1556.0	1557.0	1560.3	1546.0	1520.7	1497.9	1472.8	1450.0
24.5°	1483.1	1507.6	1530.7	1549.0	1549.8	1553.0	1538.2	1512.2	1489.1	1463.5	1440.0
25°	1474.6	1499.4	1522.9	1541.7	1542.2	1545.5	1530.2	1503.4	1479.8	1453.5	1429.7
25.5°	1465.5	1491.1	1515.2	1534.2	1534.5	1537.7	1521.7	1494.1	1470.0	1443.0	1419.2
26°	1456.0	1482.6	1506.6	1526.4	1526.7	1529.7	1512.9	1484.6	1459.8	1432.4	1408.1
26.5°	1446.5	1473.6	1498.6	1518.2	1517.9	1521.2	1503.6	1474.6	1449.7	1422.2	1397.3
27°	1436.7	1464.5	1489.8	1509.9	1509.4	1512.2	1494.4	1464.5	1439.2	1410.9	1385.6
27.5°	1426.7	1454.7	1480.6	1501.1	1500.4	1503.1	1484.6	1454.0	1428.4	1399.6	1373.8
28°	1416.4	1445.2	1471.5	1492.1	1491.1	1493.6	1474.6	1443.5	1417.1	1388.3	1361.5
28.5°	1405.4	1434.9	1461.5	1482.6	1481.3	1484.1	1464.0	1432.2	1405.6	1376.0	1349.2
29°	1394.3	1424.7	1451.7	1473.1	1471.5	1473.8	1453.0	1420.7	1393.8	1363.7	1335.9
29.5°	1382.8	1413.6	1441.2	1463.3	1461.3	1463.3	1442.0	1408.6	1381.5	1351.0	1321.9
30°	1371.3	1402.9	1430.9	1452.7	1450.7	1452.5	1430.4	1396.6	1369.0	1338.2	1307.3
30.5°	1358.7	1391.6	1419.7	1442.5	1439.7	1441.5	1418.9	1384.3	1355.7	1324.1	1292.1
31°	1346.5	1379.8	1408.6	1431.4	1428.4	1430.2	1406.6	1371.0	1342.9	1309.9	1276.5
31.5°	1333.9	1367.0	1397.1	1420.2	1416.6	1418.1	1394.1	1357.2	1328.7	1295.3	1260.0
32°	1320.9	1355.2	1385.1	1408.4	1405.6	1406.4	1380.8	1342.9	1314.4	1280.3	1242.7
32.5°	1307.1	1342.2	1372.8	1396.8	1393.1	1393.8	1366.8	1328.2	1299.6	1263.7	1224.1
33°	1292.8	1328.9	1360.5	1384.8	1380.5	1380.8	1352.2	1313.1	1284.3	1246.2	1204.1
33.5°	1277.3	1315.4	1347.7	1372.3	1367.5	1367.5	1337.7	1296.8	1267.5	1227.1	1181.7
34°	1261.7	1300.8	1334.2	1359.7	1354.5	1353.5	1321.6	1280.0	1249.9	1206.8	1156.7
34.5°	1244.7	1285.0	1319.6	1346.5	1340.7	1338.7	1305.8	1262.2	1230.9	1181.7	1129.1
35°	1226.6	1269.0	1305.1	1332.9	1326.6	1323.6	1288.8	1243.2	1209.3	1155.4	1098.8
35.5°	1206.3	1251.4	1289.0	1318.6	1312.1	1308.1	1271.0	1221.4	1184.5	1126.8	1065.4
36°	1185.5	1232.9	1272.7	1303.8	1297.3	1292.1	1251.2	1197.3	1157.9	1094.3	1030.1
36.5°	1161.7	1213.3	1255.0	1288.8	1281.0	1274.3	1230.1	1172.0	1127.6	1058.9	993.7
37°	1134.1	1190.5	1236.4	1272.2	1264.0	1255.0	1207.6	1145.7	1092.8	1021.8	956.6
37.5°	1101.5	1165.2	1215.8	1253.9	1244.4	1233.6	1182.8	1115.8	1054.1	983.0	917.5
38°	1066.4	1136.6	1192.3	1233.6	1223.4	1211.3	1156.7	1085.5	1014.3	942.3	877.7
38.5°	1029.8	1104.3	1166.2	1211.3	1199.8	1186.5	1130.1	1052.6	974.2	901.2	837.1
39°	993.2	1068.9	1138.6	1186.3	1174.5	1160.7	1101.0	1019.6	937.1	860.1	796.7
39.5°	957.1	1033.3	1108.5	1160.2	1145.4	1131.1	1070.7	982.7	901.0	820.3	756.3
40°	921.0	998.7	1076.2	1130.6	1112.6	1101.3	1037.6	946.1	864.6	781.4	715.7
40.5°	883.2	965.4	1041.1	1098.8	1073.2	1068.2	1004.5	907.0	826.8	742.3	675.9
41°	845.6	930.3	1004.3	1064.4	1032.8	1035.3	970.2	868.1	787.4	702.2	636.5
41.5°	807.7	894.5	966.7	1027.8	991.5	999.7	935.3	829.0	748.6	662.3	598.6
42°	769.9	856.9	928.8	988.5	952.6	962.1	899.2	791.7	710.0	625.2	560.0
42.5°	732.3	817.2	889.9	947.6	916.8	923.0	860.4	752.3	672.3	588.1	522.9
43°	695.9	777.9	849.6	905.2	880.4	884.4	819.8	713.7	636.2	553.0	488.6
43.5°	659.8	739.0	810.2	864.1	842.3	845.1	779.6	674.9	600.9	519.2	454.8



TEST NUMBER: P776197

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	551.8	625.0	689.1	738.8	723.7	729.8	656.8	562.3	493.6	424.2	366.8
45.5°	517.2	587.4	648.3	699.9	685.4	691.7	615.2	525.7	459.8	393.8	340.7
46°	483.1	550.0	607.2	659.6	648.5	653.0	578.1	489.8	426.9	366.0	317.6
46.5°	450.2	513.4	568.3	622.2	612.2	614.4	538.7	454.8	396.1	337.9	295.8
47°	418.1	477.8	529.7	585.1	575.8	576.6	502.6	421.7	367.3	313.1	276.0
47.5°	386.1	442.7	495.1	549.8	539.0	539.0	467.8	389.3	338.9	290.3	257.7
48°	357.7	410.1	461.0	515.4	502.6	502.9	434.9	359.0	312.4	269.5	241.4
48.5°	330.7	379.0	428.4	483.1	467.8	467.5	401.6	329.9	287.5	249.9	228.9
49°	306.1	349.7	398.6	450.2	434.7	432.4	371.3	303.6	265.0	235.9	216.1
49.5°	283.8	324.1	370.5	419.4	403.6	399.1	342.9	279.8	244.9	221.9	203.3
50°	265.7	299.8	344.7	389.1	373.8	366.5	316.6	258.5	231.1	207.8	190.5
50.5°	249.4	278.8	319.9	360.0	344.9	337.2	290.8	239.7	217.3	193.8	177.7
51°	234.6	260.0	297.6	333.2	316.1	309.4	268.5	225.4	203.6	180.0	169.7
51.5°	221.1	244.2	277.0	308.3	291.6	285.5	247.9	210.8	189.8	171.5	162.2
52°	209.3	229.4	258.2	285.3	268.0	263.2	233.4	196.3	176.2	164.0	154.9
52.5°	198.0	216.6	241.7	264.5	246.9	243.4	218.9	182.0	168.2	156.7	147.4
53°	187.3	204.6	225.9	245.9	232.9	228.4	204.6	172.7	160.7	149.2	140.4
53.5°	177.5	193.5	211.8	229.1	219.1	213.6	190.0	165.0	153.2	141.9	133.6
54°	170.0	183.0	198.5	213.3	205.1	198.5	175.7	157.4	145.9	134.9	127.4
54.5°	162.4	174.5	187.0	199.8	191.0	183.8	167.5	149.7	138.6	128.4	121.3
55°	154.7	166.5	177.0	187.3	177.2	174.5	159.7	142.1	131.6	122.1	115.6
55.5°	147.4	158.9	169.0	177.0	168.7	166.7	151.9	135.1	125.1	116.3	110.6
56°	140.4	151.4	160.9	168.7	161.2	158.7	144.1	128.1	119.3	111.1	105.5
56.5°	133.6	144.1	153.7	160.9	153.2	150.9	136.9	121.8	113.8	106.0	101.0
57°	127.1	137.1	145.9	153.2	145.4	143.4	130.1	116.1	108.3	101.5	96.8
57.5°	121.3	130.4	138.9	145.7	138.1	135.9	123.6	110.8	103.5	97.3	92.8
58°	115.6	124.1	131.9	138.1	131.1	129.1	117.6	105.5	99.0	93.0	89.0
58.5°	110.6	118.3	125.6	131.4	124.6	122.8	112.1	100.8	94.8	89.2	85.2
59°	105.5	113.1	119.6	124.8	118.6	116.8	106.8	96.3	90.7	85.5	81.7
59.5°	101.3	108.0	114.1	118.8	112.8	111.3	101.8	92.3	86.7	82.0	78.5
60°	96.8	103.3	108.8	113.3	107.5	106.0	97.3	88.5	83.0	78.7	75.5
60.5°	92.5	98.8	104.0	108.0	102.8	101.3	93.3	84.7	79.7	75.5	72.4
61°	89.0	94.8	99.5	103.0	98.3	96.8	89.2	81.2	76.2	72.4	69.7
61.5°	85.5	90.5	95.3	98.5	94.0	92.8	85.5	78.0	73.0	69.7	66.9
62°	82.0	87.2	91.3	94.3	90.0	88.5	82.0	74.7	69.9	66.7	64.4
62.5°	78.5	83.7	88.0	90.0	86.2	85.0	78.5	71.7	67.2	64.2	61.9
63°	75.0	80.5	84.5	86.7	82.5	81.2	75.5	68.9	64.4	61.7	59.4
63.5°	71.9	77.0	81.2	83.2	79.2	78.0	72.4	66.2	61.9	59.2	57.2
64°	68.9	73.7	77.7	80.0	76.0	75.0	69.4	63.4	59.2	56.7	54.9
64.5°	66.2	70.7	74.2	76.7	73.0	71.9	66.9	60.9	56.9	54.7	52.6
65°	63.4	67.7	71.4	73.5	70.2	69.2	64.2	58.4	54.7	52.1	50.6
65.5°	60.7	65.2	68.4	70.7	67.2	66.4	61.7	56.2	52.4	50.1	48.6
66°	58.4	62.4	65.9	67.9	64.7	63.9	59.2	53.9	50.1	48.1	46.6





TEST NUMBER: P776197

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	51.4	55.2	58.4	60.2	57.4	56.7	52.6	47.6	44.1	42.4	41.1
68°	49.1	52.9	56.2	57.9	55.2	54.4	50.6	45.6	42.4	40.6	39.4
68.5°	47.1	50.6	53.9	55.7	52.9	52.1	48.4	43.6	40.6	38.9	37.9
69°	45.1	48.6	51.6	53.4	50.9	50.1	46.6	41.9	38.9	37.1	36.1
69.5°	43.4	46.6	49.6	51.1	48.9	48.1	44.6	40.1	37.1	35.6	34.6
70°	41.4	44.6	47.6	49.1	46.9	46.1	42.9	38.4	35.6	33.8	33.1
70.5°	39.6	42.9	45.6	47.1	44.9	44.4	41.1	36.6	33.8	32.3	31.6
71°	37.9	40.9	43.9	45.4	43.1	42.6	39.4	35.1	32.3	30.8	30.1
71.5°	36.1	39.1	42.1	43.4	41.4	40.9	37.9	33.6	30.8	29.3	28.6
72°	34.6	37.6	40.4	41.6	39.6	39.1	36.1	32.1	29.3	27.8	27.3
72.5°	33.1	35.8	38.6	39.9	38.1	37.4	34.6	30.6	28.1	26.6	25.8
73°	31.6	34.3	36.9	38.4	36.3	35.8	33.1	29.1	26.6	25.3	24.6
73.5°	30.1	32.6	35.3	36.6	34.8	34.3	31.6	27.8	25.3	23.8	23.3
74°	28.6	31.1	33.8	35.1	33.3	32.8	30.1	26.3	24.1	22.6	22.1
74.5°	27.1	29.6	32.1	33.6	31.8	31.3	28.8	25.1	22.8	21.3	21.1
75°	25.8	28.3	30.8	32.1	30.3	29.8	27.3	23.8	21.6	20.3	19.8
75.5°	24.3	26.8	29.3	30.6	29.1	28.6	26.1	22.6	20.3	19.1	18.6
76°	23.1	25.3	27.8	29.3	27.6	27.3	24.8	21.3	19.1	17.8	17.5
76.5°	21.8	24.1	26.6	27.8	26.3	25.8	23.6	20.1	18.0	16.8	16.3
77°	20.6	22.8	25.1	26.6	25.1	24.6	22.3	19.1	16.8	15.5	15.3
77.5°	19.3	21.6	23.8	25.1	23.8	23.3	21.1	17.8	15.8	14.5	14.0
78°	18.3	20.3	22.6	23.8	22.6	22.1	19.8	16.5	14.5	13.5	13.0
78.5°	17.0	19.1	21.3	22.8	21.3	21.1	18.8	15.5	13.5	12.5	12.0
79°	16.0	18.0	20.3	21.6	20.1	19.8	17.5	14.5	12.5	11.5	11.3
79.5°	14.8	16.8	19.1	20.3	19.1	18.8	16.3	13.5	11.8	10.5	10.3
80°	13.8	15.8	17.8	19.1	17.8	17.5	15.3	12.5	10.8	9.5	9.3
80.5°	12.8	14.5	16.8	18.0	16.8	16.3	14.3	11.5	9.8	8.8	8.5
81°	11.8	13.5	15.5	16.8	15.8	15.5	13.3	10.5	9.0	7.8	7.5
81.5°	10.8	12.5	14.5	15.8	14.5	14.3	12.3	9.5	8.0	7.0	6.8
82°	10.0	11.5	13.5	14.8	13.5	13.3	11.5	8.8	7.3	6.3	6.0
82.5°	9.0	10.5	12.5	13.8	12.8	12.5	10.5	7.8	6.5	5.5	5.3
83°	8.3	9.8	11.5	12.8	11.8	11.5	9.5	7.0	5.8	4.8	4.5
83.5°	7.3	8.8	10.8	11.8	10.8	10.5	8.8	6.3	5.0	4.0	4.0
84°	6.5	8.0	9.8	11.0	10.0	9.8	8.0	5.5	4.3	3.3	3.3
84.5°	5.8	7.0	9.0	10.0	9.0	8.8	7.3	4.8	3.5	2.5	2.8
85°	5.0	6.3	8.0	9.3	8.3	8.0	6.3	4.0	3.0	2.0	2.0
85.5°	4.3	5.5	7.3	8.5	7.5	7.3	5.5	3.3	2.3	1.5	1.5
86°	3.5	4.8	6.3	7.5	6.8	6.5	5.0	2.8	1.8	1.3	1.0
86.5°	2.8	4.0	5.5	6.8	6.0	5.8	4.3	2.3	1.3	0.8	0.5
87°	2.3	3.3	5.0	6.0	5.3	5.0	3.5	1.8	1.0	0.5	0.0
87.5°	1.8	2.5	4.3	5.3	4.5	4.3	3.0	1.3	0.5	0.3	0.0
88°	1.3	2.0	3.5	4.5	3.8	3.8	2.5	1.0	0.3	0.0	0.0
88.5°	0.8	1.5	3.0	3.8	3.3	3.0	1.8	0.5	0.0	0.0	0.0



TEST NUMBER: P776197

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.3	1.3	2.0	1.3	1.3	0.3	0.0	0.0	0.0	0.0



TEST NUMBER: P776197

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1650.8	1650.8	1650.8	1650.8	1650.8	1650.8
0.5°	1648.8	1650.0	1650.3	1651.3	1651.0	1650.0
1°	1647.8	1648.8	1649.0	1650.3	1650.3	1649.8
1.5°	1646.5	1647.3	1647.8	1649.0	1649.3	1649.3
2°	1645.3	1646.0	1646.3	1647.8	1648.5	1648.8
2.5°	1643.8	1644.5	1644.8	1646.5	1647.5	1648.3
3°	1642.5	1643.0	1643.3	1645.0	1646.3	1647.5
3.5°	1640.8	1641.3	1641.5	1643.8	1645.3	1646.5
4°	1639.3	1639.5	1640.0	1642.3	1644.3	1645.8
4.5°	1637.5	1637.8	1638.0	1640.8	1643.0	1645.0
5°	1635.5	1635.7	1636.0	1639.0	1641.8	1643.8
5.5°	1633.5	1633.7	1634.0	1637.5	1640.3	1642.8
6°	1631.2	1631.2	1631.7	1635.5	1638.8	1641.5
6.5°	1629.0	1629.2	1629.5	1633.5	1637.0	1640.3
7°	1626.5	1626.7	1627.2	1631.5	1635.5	1639.0
7.5°	1624.0	1624.2	1624.5	1629.5	1633.7	1637.5
8°	1621.5	1621.2	1622.0	1627.0	1631.7	1635.7
8.5°	1618.4	1618.4	1619.2	1624.7	1629.7	1634.0
9°	1615.7	1615.4	1616.2	1622.2	1627.7	1632.2
9.5°	1612.4	1612.7	1612.9	1619.2	1625.5	1630.2
10°	1609.2	1609.2	1609.9	1616.4	1623.0	1628.0
10.5°	1605.9	1605.7	1606.4	1613.4	1620.5	1625.7
11°	1602.2	1602.2	1602.9	1610.4	1617.7	1623.5
11.5°	1598.4	1598.4	1598.9	1607.2	1614.9	1620.7
12°	1594.4	1594.4	1595.1	1603.7	1611.9	1617.9
12.5°	1590.4	1590.1	1590.9	1599.9	1608.4	1615.2
13°	1586.1	1585.9	1586.4	1595.9	1605.2	1611.9
13.5°	1581.6	1581.3	1582.1	1591.9	1601.7	1608.9
14°	1576.8	1576.6	1577.3	1587.6	1597.9	1605.7
14.5°	1571.8	1571.8	1572.3	1583.1	1593.9	1602.2
15°	1566.8	1566.6	1567.3	1578.3	1589.6	1598.4
15.5°	1561.5	1561.0	1561.8	1573.1	1585.4	1594.4
16°	1555.8	1555.8	1556.0	1567.8	1580.6	1590.1
16.5°	1550.0	1550.0	1550.3	1562.3	1575.8	1585.9
17°	1543.7	1544.0	1544.2	1556.5	1570.6	1581.1
17.5°	1537.7	1537.7	1537.7	1550.8	1565.3	1576.6
18°	1531.0	1531.5	1531.2	1544.2	1559.5	1571.6
18.5°	1524.2	1524.4	1524.2	1537.7	1553.8	1566.3
19°	1517.2	1517.4	1517.2	1530.7	1547.5	1560.5
19.5°	1509.7	1510.7	1509.9	1523.9	1541.0	1554.8
20°	1502.1	1503.1	1501.9	1516.2	1534.2	1549.0
20.5°	1494.4	1495.1	1494.1	1508.9	1527.4	1542.7
21°	1486.1	1487.1	1485.8	1500.9	1520.4	1536.2



TEST NUMBER: P776197

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1460.0	1461.0	1459.5	1475.3	1497.1	1515.2
23°	1450.5	1452.0	1450.0	1466.5	1488.6	1507.6
23.5°	1440.7	1442.5	1440.7	1457.0	1480.1	1499.6
24°	1430.7	1432.7	1430.7	1447.5	1471.0	1491.6
24.5°	1420.7	1422.7	1420.4	1438.0	1462.0	1483.1
25°	1409.9	1412.1	1409.9	1427.4	1452.5	1474.6
25.5°	1399.1	1401.6	1399.1	1417.1	1443.0	1465.5
26°	1387.6	1390.6	1388.3	1406.4	1432.9	1456.0
26.5°	1376.5	1379.5	1376.8	1395.6	1422.9	1446.5
27°	1364.5	1367.8	1365.0	1384.3	1412.1	1436.7
27.5°	1352.5	1355.7	1353.2	1372.8	1401.4	1426.7
28°	1339.9	1343.4	1340.7	1360.7	1390.3	1416.4
28.5°	1326.6	1331.2	1328.4	1348.7	1379.0	1405.4
29°	1312.1	1317.9	1315.4	1336.4	1367.3	1394.3
29.5°	1297.1	1304.3	1301.8	1323.9	1355.0	1382.8
30°	1281.8	1290.0	1287.3	1311.1	1342.9	1371.3
30.5°	1265.5	1274.5	1272.0	1297.6	1330.4	1358.7
31°	1248.4	1258.5	1255.5	1283.0	1317.6	1346.5
31.5°	1230.4	1240.9	1238.9	1268.0	1304.3	1333.9
32°	1210.8	1222.4	1221.4	1251.7	1289.8	1320.9
32.5°	1190.3	1202.6	1203.1	1234.9	1275.0	1307.1
33°	1168.0	1181.0	1183.5	1216.8	1259.2	1292.8
33.5°	1141.9	1158.2	1161.7	1198.0	1242.7	1277.3
34°	1112.3	1131.6	1137.4	1177.5	1225.4	1261.7
34.5°	1079.2	1101.0	1107.5	1154.7	1206.6	1244.7
35°	1044.9	1066.4	1073.5	1128.4	1186.8	1226.6
35.5°	1009.3	1030.6	1036.9	1098.5	1164.7	1206.3
36°	972.7	996.2	998.0	1066.2	1138.9	1185.5
36.5°	937.6	963.1	958.6	1031.1	1109.8	1161.7
37°	902.5	928.6	920.0	995.0	1077.2	1134.1
37.5°	866.9	890.4	882.9	955.9	1041.4	1101.5
38°	830.3	850.8	846.8	915.5	1004.3	1066.4
38.5°	790.7	810.7	808.5	875.7	966.2	1029.8
39°	751.6	772.4	770.6	835.5	927.8	993.2
39.5°	711.5	736.0	732.3	795.9	887.7	957.1
40°	672.9	700.4	694.9	754.6	848.6	921.0
40.5°	633.5	665.3	657.6	714.2	809.2	883.2
41°	595.4	628.7	622.2	674.6	770.9	845.6
41.5°	558.3	591.9	587.1	638.5	733.8	807.7
42°	521.2	555.3	551.8	601.7	696.2	769.9
42.5°	484.3	520.4	517.9	566.8	656.8	732.3
43°	449.0	487.3	485.3	533.2	620.0	695.9
43.5°	416.6	454.0	453.2	501.1	584.1	659.8

TEST NUMBER: P776197

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	332.7	359.5	368.0	413.9	482.8	551.8
45.5°	309.1	331.2	342.9	388.1	452.2	517.2
46°	287.5	305.8	319.6	363.8	422.9	483.1
46.5°	268.7	284.3	298.1	340.9	396.1	450.2
47°	252.2	265.7	278.3	319.4	369.8	418.1
47.5°	236.9	249.4	260.5	298.8	345.7	386.1
48°	225.1	235.4	244.4	279.8	322.9	357.7
48.5°	213.6	222.9	230.1	262.5	302.3	330.7
49°	201.8	211.3	216.6	246.2	282.8	306.1
49.5°	190.0	199.8	204.3	231.1	264.5	283.8
50°	178.5	189.0	192.8	216.6	247.9	265.7
50.5°	170.7	179.5	182.5	203.6	232.6	249.4
51°	163.2	171.5	173.7	191.5	218.6	234.6
51.5°	155.9	164.2	166.2	180.7	205.3	221.1
52°	148.7	156.9	158.9	172.2	193.3	209.3
52.5°	141.6	149.7	151.7	165.0	182.8	198.0
53°	134.9	142.4	144.4	157.4	174.0	187.3
53.5°	128.4	135.9	137.4	149.9	166.5	177.5
54°	122.6	129.4	130.9	142.6	158.7	170.0
54.5°	117.1	123.3	125.1	135.9	151.2	162.4
55°	111.8	117.8	119.3	129.4	143.9	154.7
55.5°	107.0	112.6	114.1	123.6	137.1	147.4
56°	102.3	107.5	108.8	117.8	130.6	140.4
56.5°	98.0	103.0	104.3	112.6	124.6	133.6
57°	94.0	98.5	99.8	107.8	118.8	127.1
57.5°	90.2	94.5	95.5	103.0	113.6	121.3
58°	86.2	90.5	91.8	98.8	108.5	115.6
58.5°	83.0	87.0	88.5	94.5	103.8	110.6
59°	79.5	83.7	85.0	90.5	99.3	105.5
59.5°	76.5	80.5	81.7	87.2	95.3	101.3
60°	73.5	77.2	78.5	84.0	91.3	96.8
60.5°	70.4	74.2	75.0	80.7	88.0	92.5
61°	67.7	71.2	71.9	77.5	84.7	89.0
61.5°	65.2	68.4	69.2	74.2	81.2	85.5
62°	62.7	65.9	66.7	71.4	78.0	82.0
62.5°	60.2	63.2	63.9	68.7	74.7	78.5
63°	57.7	60.7	61.4	65.9	71.7	75.0
63.5°	55.4	58.4	59.2	63.2	68.9	71.9
64°	53.4	56.2	56.7	60.9	65.9	68.9
64.5°	51.1	53.9	54.7	58.4	63.4	66.2
65°	49.1	51.9	52.4	56.2	60.9	63.4
65.5°	47.1	49.6	50.4	53.9	58.4	60.7
66°	45.4	47.6	48.1	51.9	56.2	58.4



TEST NUMBER: P776197

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	39.9	42.1	42.6	45.9	49.4	51.4
68°	38.4	40.4	40.9	43.9	47.4	49.1
68.5°	36.6	38.6	39.1	42.1	45.4	47.1
69°	35.1	37.1	37.6	40.4	43.4	45.1
69.5°	33.6	35.3	35.8	38.6	41.6	43.4
70°	32.1	33.8	34.3	37.1	39.9	41.4
70.5°	30.6	32.3	32.8	35.3	38.1	39.6
71°	29.1	30.8	31.3	33.8	36.3	37.9
71.5°	27.8	29.6	29.8	32.3	34.8	36.1
72°	26.6	28.1	28.3	30.8	33.1	34.6
72.5°	25.1	26.8	27.1	29.3	31.6	33.1
73°	23.8	25.3	25.8	28.1	30.1	31.6
73.5°	22.8	24.1	24.3	26.6	28.6	30.1
74°	21.3	22.8	23.1	25.3	27.3	28.6
74.5°	20.3	21.6	21.8	23.8	25.8	27.1
75°	19.1	20.3	20.8	22.6	24.6	25.8
75.5°	18.0	19.3	19.6	21.3	23.1	24.3
76°	16.8	18.0	18.3	20.3	22.1	23.1
76.5°	15.8	17.0	17.3	19.1	20.8	21.8
77°	14.8	15.8	16.0	17.8	19.6	20.6
77.5°	13.5	14.8	15.0	16.8	18.3	19.3
78°	12.8	13.8	14.0	15.5	17.0	18.3
78.5°	11.8	12.8	13.0	14.5	16.0	17.0
79°	10.8	11.8	12.0	13.5	14.8	16.0
79.5°	10.0	11.0	11.0	12.5	13.8	14.8
80°	9.0	10.0	10.3	11.5	12.8	13.8
80.5°	8.3	9.3	9.3	10.5	11.8	12.8
81°	7.3	8.3	8.5	9.8	10.8	11.8
81.5°	6.5	7.5	7.8	8.8	9.8	10.8
82°	5.8	6.8	7.0	8.0	9.0	10.0
82.5°	5.0	6.0	6.3	7.3	8.0	9.0
83°	4.3	5.3	5.3	6.3	7.3	8.3
83.5°	3.8	4.5	4.5	5.5	6.3	7.3
84°	3.0	3.8	4.0	4.8	5.5	6.5
84.5°	2.3	3.0	3.3	4.3	4.8	5.8
85°	1.8	2.5	2.5	3.5	4.0	5.0
85.5°	1.0	1.8	2.0	2.8	3.3	4.3
86°	0.5	1.3	1.3	2.3	2.8	3.5
86.5°	0.0	0.5	0.5	1.5	2.3	2.8
87°	0.0	0.0	0.0	1.0	1.8	2.3
87.5°	0.0	0.0	0.0	0.5	1.3	1.8
88°	0.0	0.0	0.0	0.0	0.8	1.3
88.5°	0.0	0.0	0.0	0.0	0.5	0.8



TEST NUMBER: P776197

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3500K

**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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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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°	1529.5	1549.5	1569.8	1586.6	1588.4	1591.6	1580.3	1558.8	1538.2	1516.2	1495.1
22°	1522.2	1543.2	1563.8	1581.1	1582.6	1586.1	1574.1	1551.5	1531.0	1507.9	1486.8



44°	623.7	700.7	770.6	821.8	803.0	807.0	739.3	637.8	565.3	487.8	423.7
44.5°	587.1	662.8	730.5	781.6	762.8	769.1	697.9	599.4	529.5	454.8	394.3



66.5°	55.9	59.9	63.4	65.2	62.2	61.2	56.9	51.6	48.1	46.1	44.9
67°	53.6	57.4	60.7	62.7	59.7	58.9	54.7	49.6	46.1	44.1	42.9



89°	0.3	1.3	2.3	3.3	2.5	2.5	1.3	0.3	0.0	0.0	0.0
89.5°	0.0	0.8	1.8	2.5	2.0	1.8	0.8	0.0	0.0	0.0	0.0



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21.5°	1477.8	1478.6	1477.3	1492.4	1512.9	1529.5
22°	1468.8	1470.0	1468.5	1484.3	1504.9	1522.2



44°	387.1	421.7	423.2	470.0	548.5	623.7
44.5°	358.7	389.6	394.1	441.7	514.9	587.1



66.5°	43.4	45.9	46.4	49.6	53.6	55.9
67°	41.6	43.9	44.4	47.9	51.6	53.6

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Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.0	0.3
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)