

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: P776096

Luminaire Tested: HCDJBS1525CSD-HCD6TRMW-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776096
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-3000K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

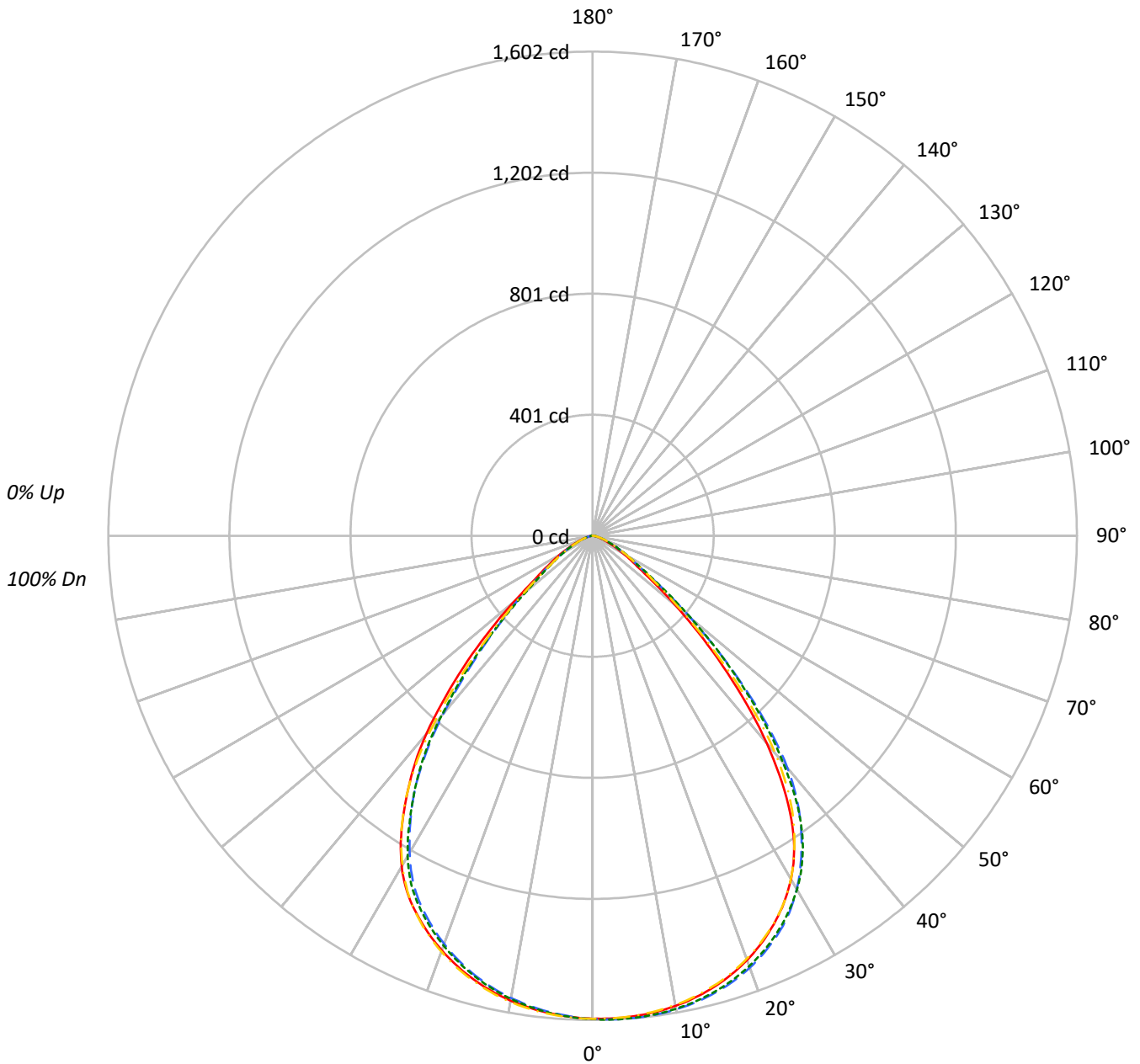
Lumens per Lamp: N/A
Luminaire Lumens: 2670.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	87630	87630	87630	87630
5°	87789	88102	87310	87255
10°	87924	88459	86945	86616
15°	87776	88633	86277	85630
20°	87158	88383	85139	84159
25°	85765	87501	83406	82003
30°	83076	85551	79968	77480
35°	76721	80923	72290	68636
40°	64120	70124	61272	55704
45°	47206	54060	45253	39469
50°	30293	36442	29116	24357
55°	18112	21982	19029	16506
60°	12751	14955	13782	11995
65°	8717	10611	9703	8587
70°	5979	7678	6764	6219
75°	4130	5698	4808	4490
80°	2810	4357	3441	3189
85°	1258	3397	2013	1887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 55688 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	5.7
10°-20°	432.6	16.2
20°-30°	642.3	24.0
30°-40°	689.2	25.8
40°-50°	461.9	17.3
50°-60°	188.0	7.0
60°-70°	75.1	2.8
70°-80°	25.7	1.0
80°-90°	4.7	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°	1226.2	45.9
0°-40°	1915.4	71.7
0°-60°	2565.3	96.1
0°-90°	2670.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1598	1598	1598	1598	1598	
5°	1595	1601	1587	1586	1595	152
15°	1547	1562	1520	1509	1547	436
25°	1418	1447	1379	1356	1418	651
35°	1146	1209	1080	1026	1146	705
45°	609	697	584	509	609	470
55°	190	230	199	173	190	183
65°	67	82	75	66	67	69
75°	20	27	23	21	20	22
85°	2	5	3	3	2	3
90°	0	0	0	0	0	



TEST NUMBER: P776096

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5
0.5°	1597.7	1598.5	1599.5	1600.2	1600.5	1600.2	1598.2	1596.8	1597.0	1597.0	1597.7
1°	1598.2	1599.2	1600.2	1601.0	1601.2	1600.7	1598.2	1596.5	1596.3	1596.0	1596.5
1.5°	1598.2	1599.7	1601.0	1601.7	1601.4	1600.7	1598.2	1596.0	1595.8	1594.8	1595.3
2°	1598.0	1600.0	1601.4	1602.2	1601.7	1601.0	1598.0	1595.5	1594.8	1593.5	1593.8
2.5°	1597.7	1600.2	1601.7	1602.4	1601.9	1601.0	1597.7	1594.8	1593.8	1592.3	1592.3
3°	1597.5	1600.2	1601.9	1602.7	1601.9	1600.7	1597.3	1594.0	1592.8	1590.8	1590.8
3.5°	1597.3	1600.2	1602.2	1602.7	1601.9	1600.5	1596.5	1593.1	1591.3	1589.1	1588.9
4°	1596.8	1600.2	1601.9	1602.7	1601.7	1600.0	1595.8	1591.8	1589.8	1587.4	1587.1
4.5°	1596.0	1599.7	1601.9	1602.7	1601.4	1599.5	1595.0	1590.8	1588.4	1585.4	1585.1
5°	1595.3	1599.5	1601.7	1602.2	1601.0	1598.7	1593.8	1589.3	1586.6	1583.4	1582.9
5.5°	1594.5	1598.7	1601.2	1601.9	1600.5	1597.7	1592.8	1587.9	1584.9	1581.2	1580.5
6°	1593.3	1598.2	1600.7	1601.4	1599.7	1596.8	1591.6	1586.1	1582.9	1579.0	1578.2
6.5°	1592.1	1597.3	1600.0	1600.7	1598.7	1595.8	1590.1	1584.4	1580.9	1576.5	1575.5
7°	1590.8	1596.5	1599.2	1600.0	1598.0	1594.5	1588.4	1582.4	1578.7	1573.8	1572.8
7.5°	1589.3	1595.3	1598.2	1599.0	1596.8	1593.1	1586.9	1580.5	1576.3	1571.1	1569.8
8°	1587.6	1594.0	1597.3	1598.0	1595.5	1591.6	1584.9	1578.2	1573.8	1568.1	1566.9
8.5°	1585.9	1592.8	1596.0	1596.8	1594.3	1590.1	1582.9	1575.8	1570.8	1565.1	1563.7
9°	1583.7	1591.3	1594.8	1595.5	1592.6	1588.1	1580.9	1573.3	1568.1	1561.9	1559.9
9.5°	1581.7	1589.6	1593.1	1594.0	1590.8	1586.4	1578.5	1570.6	1565.1	1558.5	1556.5
10°	1579.5	1587.9	1591.6	1592.3	1589.1	1584.4	1576.0	1567.9	1561.9	1554.8	1553.0
10.5°	1577.0	1585.6	1589.6	1590.6	1586.9	1581.9	1573.5	1564.6	1558.7	1551.1	1549.1
11°	1574.3	1583.7	1587.6	1588.6	1584.9	1579.7	1570.8	1561.7	1555.0	1547.4	1544.9
11.5°	1571.6	1581.2	1585.4	1586.6	1582.4	1577.0	1567.9	1558.2	1551.3	1543.2	1540.7
12°	1568.3	1578.7	1583.2	1584.2	1580.2	1574.0	1564.6	1554.8	1547.4	1538.7	1536.2
12.5°	1565.1	1575.8	1580.7	1581.7	1577.5	1571.3	1561.4	1551.1	1543.4	1534.3	1531.5
13°	1561.9	1573.0	1578.2	1579.2	1574.5	1568.1	1558.0	1547.1	1539.0	1529.6	1526.8
13.5°	1558.5	1570.1	1575.3	1576.3	1571.6	1564.9	1554.3	1543.2	1534.5	1524.6	1521.7
14°	1554.8	1567.1	1572.3	1573.3	1568.6	1561.4	1550.6	1538.7	1530.1	1519.4	1516.2
14.5°	1550.8	1563.4	1569.1	1570.3	1565.1	1557.7	1546.4	1534.3	1525.1	1514.3	1510.8
15°	1546.6	1559.9	1565.6	1567.1	1561.7	1554.0	1542.2	1529.6	1520.2	1508.8	1505.1
15.5°	1542.4	1556.0	1561.9	1563.7	1557.7	1550.1	1538.0	1525.1	1514.7	1502.9	1499.2
16°	1537.7	1552.0	1558.2	1559.7	1553.8	1545.9	1533.5	1519.9	1509.6	1497.0	1493.0
16.5°	1533.0	1547.8	1554.3	1555.8	1549.8	1541.4	1528.8	1514.7	1503.9	1491.0	1486.8
17°	1527.8	1543.6	1550.3	1551.8	1545.4	1537.0	1523.9	1509.3	1497.9	1484.6	1480.4
17.5°	1522.9	1539.0	1545.9	1547.4	1540.9	1532.0	1518.7	1503.9	1492.0	1477.9	1473.5
18°	1517.5	1534.0	1541.2	1542.9	1536.0	1527.1	1513.3	1497.9	1485.8	1471.3	1466.6
18.5°	1511.8	1529.1	1536.5	1538.0	1531.0	1521.9	1507.6	1492.0	1479.7	1464.4	1459.4
19°	1506.1	1523.6	1531.3	1533.0	1525.9	1516.5	1501.9	1485.8	1473.0	1457.4	1452.0
19.5°	1500.2	1518.2	1526.1	1527.8	1520.7	1510.8	1496.0	1479.7	1466.3	1450.0	1444.3
20°	1494.0	1512.5	1520.7	1522.6	1515.0	1504.9	1489.8	1473.0	1459.4	1442.6	1436.7
20.5°	1487.6	1506.6	1514.7	1517.0	1509.3	1498.9	1483.4	1466.3	1452.2	1434.5	1428.8
21°	1480.7	1500.4	1509.1	1511.0	1503.1	1492.5	1476.7	1459.4	1444.8	1426.8	1420.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1459.2	1480.4	1489.5	1492.3	1483.9	1472.5	1455.7	1437.2	1421.9	1401.4	1394.4
23°	1451.3	1473.2	1482.9	1485.3	1476.7	1465.1	1448.0	1429.5	1413.5	1392.5	1385.3
23.5°	1443.1	1465.8	1475.5	1478.2	1469.5	1457.4	1440.1	1421.6	1405.3	1383.6	1375.9
24°	1435.0	1458.2	1468.3	1471.0	1462.1	1449.8	1432.2	1413.2	1396.7	1374.4	1366.3
24.5°	1426.6	1450.0	1460.2	1463.4	1454.5	1442.1	1424.3	1404.8	1387.8	1365.0	1356.6
25°	1417.9	1441.9	1452.5	1455.7	1446.6	1434.0	1415.9	1396.2	1378.9	1355.4	1346.8
25.5°	1408.8	1433.7	1444.1	1447.3	1438.4	1425.6	1407.3	1387.5	1369.7	1345.3	1336.4
26°	1399.6	1425.1	1435.7	1439.2	1430.0	1417.2	1398.6	1378.4	1360.1	1334.7	1325.3
26.5°	1390.0	1415.9	1426.3	1430.5	1421.4	1408.0	1389.3	1369.0	1350.2	1323.1	1313.4
27°	1380.4	1406.3	1417.4	1421.4	1412.2	1398.9	1379.6	1358.9	1339.9	1311.0	1300.8
27.5°	1369.5	1396.7	1407.5	1412.0	1402.8	1389.5	1369.5	1348.3	1329.0	1298.6	1287.5
28°	1359.4	1386.3	1397.2	1402.1	1393.2	1379.6	1358.9	1337.1	1317.1	1285.5	1273.4
28.5°	1347.8	1375.4	1385.8	1391.7	1383.8	1369.5	1348.0	1325.8	1304.8	1271.9	1258.8
29°	1336.6	1364.1	1374.9	1380.9	1373.2	1359.1	1336.4	1313.4	1291.9	1256.9	1243.0
29.5°	1324.5	1352.5	1363.1	1369.5	1362.6	1348.0	1324.5	1300.8	1278.1	1241.8	1227.0
30°	1312.4	1340.3	1351.0	1357.9	1351.5	1336.9	1311.7	1287.2	1263.3	1226.2	1210.4
30.5°	1298.8	1327.5	1337.9	1345.8	1340.3	1324.5	1298.6	1272.9	1248.2	1209.9	1193.6
31°	1285.8	1314.2	1325.0	1333.2	1328.2	1312.2	1285.3	1258.3	1231.9	1192.6	1175.8
31.5°	1271.2	1300.6	1311.2	1319.6	1315.6	1299.3	1270.9	1243.0	1215.1	1174.8	1158.8
32°	1256.1	1286.0	1296.6	1306.3	1302.8	1285.5	1256.6	1226.5	1197.6	1156.8	1140.8
32.5°	1240.1	1270.9	1282.0	1291.7	1289.0	1271.7	1241.3	1209.7	1179.0	1137.8	1122.7
33°	1224.0	1255.4	1267.0	1277.1	1274.6	1257.1	1225.7	1192.1	1160.3	1118.5	1103.7
33.5°	1206.2	1239.8	1251.7	1261.8	1259.6	1241.5	1209.9	1174.3	1140.8	1098.5	1085.2
34°	1187.2	1223.3	1236.3	1246.0	1244.0	1226.2	1193.6	1155.6	1121.0	1077.5	1064.7
34.5°	1166.9	1207.0	1220.3	1230.2	1227.0	1208.7	1176.8	1135.8	1101.0	1056.8	1045.2
35°	1146.4	1188.9	1203.7	1213.1	1209.2	1191.6	1159.0	1116.3	1080.2	1035.5	1023.9
35.5°	1124.9	1171.1	1186.9	1196.1	1190.9	1173.6	1141.2	1097.3	1060.2	1013.8	1002.2
36°	1101.7	1152.4	1170.1	1178.5	1171.4	1155.6	1122.5	1076.5	1039.5	991.6	979.0
36.5°	1077.8	1133.6	1151.9	1160.8	1150.6	1135.6	1102.7	1056.8	1018.7	968.8	955.7
37°	1053.6	1113.1	1133.6	1142.0	1128.9	1115.1	1081.7	1035.8	997.0	945.9	930.8
37.5°	1028.4	1092.1	1113.6	1122.0	1105.9	1093.1	1060.2	1015.8	975.5	923.1	905.3
38°	1002.7	1069.6	1093.8	1101.7	1081.7	1071.3	1038.0	993.8	953.5	897.9	879.6
38.5°	976.5	1046.9	1072.3	1080.0	1057.3	1046.9	1015.0	972.8	931.0	872.5	853.2
39°	950.3	1022.7	1049.8	1057.8	1032.6	1022.2	991.1	949.6	907.6	846.3	824.8
39.5°	923.4	996.7	1026.1	1034.0	1006.6	996.0	966.1	926.6	882.4	820.6	796.4
40°	896.0	969.3	1001.9	1008.8	979.9	968.6	940.2	900.9	856.2	792.0	767.0
40.5°	868.3	941.2	976.0	982.2	954.0	939.7	913.0	875.2	828.8	764.0	737.1
41°	839.9	912.3	948.6	954.2	927.1	910.8	885.1	847.5	800.6	736.6	707.7
41.5°	811.0	883.1	921.4	925.3	900.2	881.6	855.7	820.1	772.7	709.2	677.8
42°	781.3	853.5	892.5	895.5	872.0	851.7	825.1	790.2	744.0	680.5	649.9
42.5°	751.4	824.8	863.3	865.8	844.3	821.1	795.4	761.3	717.1	653.6	622.7
43°	721.8	795.9	832.5	836.7	815.9	792.2	765.5	731.4	690.2	626.0	596.1
43.5°	692.9	767.3	802.6	807.0	785.8	761.6	735.9	702.0	663.5	599.5	569.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	608.9	680.1	709.9	718.3	697.3	671.7	645.5	616.8	583.7	521.0	495.5
45.5°	582.0	650.9	678.3	689.2	667.9	642.5	616.1	588.9	557.3	496.5	472.6
46°	554.6	622.3	647.0	660.3	640.5	613.6	586.2	561.2	531.3	472.6	450.3
46.5°	527.1	593.8	617.1	631.6	612.9	585.9	557.8	533.6	505.4	449.8	428.3
47°	500.0	564.7	586.9	602.2	585.4	558.8	529.1	505.4	480.0	426.6	407.8
47.5°	474.3	537.0	557.8	573.3	557.5	532.3	502.2	478.7	455.5	405.6	388.1
48°	448.8	509.4	529.1	545.4	530.4	506.9	475.8	452.8	431.5	384.9	369.3
48.5°	423.9	482.4	502.2	517.8	503.9	482.4	451.1	427.6	408.3	365.1	350.5
49°	400.2	456.0	475.5	490.3	478.0	457.7	426.6	403.1	384.6	345.8	333.2
49.5°	377.7	429.8	449.8	464.4	452.3	433.5	403.6	379.9	362.4	327.6	316.4
50°	355.2	404.6	423.9	438.2	427.3	410.3	380.9	358.2	341.4	310.3	300.4
50.5°	334.0	380.2	399.9	412.8	402.9	387.6	360.2	337.4	320.6	294.0	285.1
51°	313.5	356.5	376.5	387.6	380.2	365.8	340.2	317.9	301.4	278.6	270.5
51.5°	294.0	333.7	354.0	364.6	357.7	345.1	321.6	299.9	283.6	263.8	256.4
52°	275.4	312.5	332.2	342.1	336.7	324.3	303.6	282.6	267.5	249.7	243.3
52.5°	257.9	292.7	311.7	320.4	315.4	304.8	286.8	266.8	252.5	236.6	231.0
53°	241.3	274.2	292.2	299.6	295.7	287.0	270.7	252.5	239.6	224.8	220.3
53.5°	226.5	256.9	273.7	280.9	276.9	270.0	255.9	239.1	227.8	214.4	209.5
54°	212.7	240.6	256.7	263.1	259.1	253.9	242.3	227.0	218.1	203.8	198.9
54.5°	200.6	226.0	239.9	246.5	242.6	239.1	229.5	217.1	208.5	193.4	188.2
55°	189.5	212.7	224.5	231.2	230.0	227.0	218.6	207.5	199.1	183.0	177.4
55.5°	179.1	200.6	210.7	217.4	217.6	215.2	208.0	197.6	189.5	174.2	168.7
56°	170.0	189.0	197.9	204.5	205.0	203.3	197.1	187.7	179.8	166.0	160.8
56.5°	161.8	178.4	186.5	192.7	192.4	191.4	186.3	177.9	171.7	158.3	153.9
57°	154.9	169.0	176.1	181.8	180.1	179.6	175.6	169.7	164.0	152.2	147.7
57.5°	148.2	160.8	166.7	171.9	170.9	170.7	167.0	161.8	156.9	145.7	141.5
58°	141.8	153.9	159.1	163.3	162.5	162.3	159.3	155.1	150.7	139.6	135.4
58.5°	135.4	147.2	152.4	156.1	155.9	155.6	152.9	149.0	144.3	133.4	128.9
59°	128.7	140.8	146.0	149.7	149.2	149.2	146.5	142.5	138.1	127.2	123.0
59.5°	122.5	134.1	139.3	143.3	142.8	142.8	140.3	136.1	131.7	121.3	117.3
60°	116.3	127.7	132.7	136.6	136.4	136.1	133.6	130.2	125.7	115.6	111.9
60.5°	110.2	121.3	126.2	130.2	129.7	129.7	127.5	124.0	120.1	110.2	106.5
61°	104.5	115.4	120.1	123.8	123.5	123.5	121.5	118.3	114.4	105.0	101.3
61.5°	99.1	109.4	114.1	117.6	117.1	117.6	115.6	112.6	108.7	100.0	96.6
62°	93.9	104.0	108.2	111.7	111.4	111.7	110.2	107.2	103.3	95.1	91.9
62.5°	88.7	98.8	102.8	106.0	105.7	106.2	104.7	102.0	98.1	90.4	87.4
63°	84.2	93.6	97.6	100.5	100.5	100.8	99.6	97.1	93.1	85.7	83.0
63.5°	80.0	88.2	92.6	95.6	95.4	95.8	94.6	92.4	88.2	81.3	79.0
64°	75.6	84.0	88.4	90.7	90.7	90.9	89.9	87.9	83.5	77.1	75.1
64.5°	71.4	79.8	84.0	86.5	86.2	86.5	85.5	83.2	79.0	73.1	71.4
65°	67.2	75.6	79.8	82.3	81.8	82.3	81.3	79.0	74.8	69.4	67.7
65.5°	63.2	71.4	75.6	78.1	77.6	78.1	77.1	75.1	70.9	65.7	64.5
66°	59.8	67.4	71.4	74.1	73.6	74.1	73.4	71.1	66.9	62.0	61.0



TEST NUMBER: P776096

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	50.1	57.1	60.8	62.7	62.7	63.2	62.7	60.5	56.6	52.6	52.1
68°	47.4	54.1	57.6	59.5	59.5	60.0	59.5	57.3	53.4	49.7	49.4
68.5°	44.5	50.9	54.3	56.3	56.3	56.8	56.3	54.3	50.4	46.9	46.7
69°	42.0	48.2	51.6	53.4	53.4	53.9	53.6	51.4	47.7	44.2	44.2
69.5°	39.5	45.5	48.7	50.4	50.6	50.9	50.6	48.4	45.0	41.7	41.7
70°	37.3	42.7	46.2	47.9	47.9	48.4	47.9	45.9	42.2	39.5	39.5
70.5°	35.1	40.5	43.5	45.2	45.2	45.7	45.5	43.2	39.8	37.1	37.3
71°	32.9	38.0	41.3	42.7	43.0	43.2	43.0	41.0	37.5	35.1	35.3
71.5°	30.9	35.8	39.0	40.5	40.5	41.0	40.8	38.5	35.3	32.9	33.3
72°	28.9	33.8	36.8	38.3	38.3	38.8	38.5	36.3	33.3	30.9	31.4
72.5°	27.2	31.9	34.6	36.1	36.1	36.6	36.3	34.3	31.4	29.1	29.6
73°	25.4	29.9	32.6	34.1	34.1	34.6	34.3	32.1	29.4	27.4	27.9
73.5°	24.0	27.9	30.9	32.1	32.4	32.6	32.4	30.4	27.7	25.7	26.2
74°	22.5	26.2	28.9	30.4	30.4	30.9	30.4	28.4	25.9	24.0	24.7
74.5°	21.0	24.7	27.2	28.7	28.7	28.9	28.7	26.7	24.2	22.5	23.0
75°	19.5	23.2	25.7	26.9	26.9	27.4	26.9	25.2	22.7	21.2	21.5
75.5°	18.3	21.7	24.0	25.2	25.4	25.7	25.4	23.5	21.2	19.8	20.3
76°	17.0	20.3	22.5	23.7	24.0	24.2	23.7	22.0	20.0	18.5	19.0
76.5°	15.8	18.8	21.2	22.2	22.5	22.7	22.2	20.7	18.8	17.0	17.8
77°	14.6	17.5	19.8	21.0	21.0	21.2	21.0	19.5	17.3	15.8	16.6
77.5°	13.6	16.3	18.5	19.5	19.8	20.0	19.8	18.0	16.1	14.6	15.3
78°	12.6	15.1	17.3	18.3	18.5	18.8	18.5	16.8	14.8	13.6	14.1
78.5°	11.6	14.1	16.1	17.0	17.3	17.5	17.0	15.6	13.8	12.6	13.1
79°	10.6	13.1	14.8	16.1	16.1	16.3	15.8	14.3	12.8	11.6	12.1
79.5°	9.6	12.1	13.8	14.8	14.8	15.1	14.8	13.3	11.9	10.6	11.1
80°	8.9	11.1	12.8	13.8	13.8	14.1	13.6	12.1	10.9	9.6	10.1
80.5°	8.2	10.1	11.9	12.8	12.8	13.1	12.6	11.1	9.9	8.9	9.4
81°	7.4	9.1	10.9	11.9	11.9	12.1	11.6	10.4	9.1	7.9	8.4
81.5°	6.4	8.4	9.9	10.9	10.9	11.1	10.9	9.4	8.2	7.2	7.7
82°	5.9	7.7	9.1	10.1	10.1	10.1	9.9	8.4	7.4	6.4	6.9
82.5°	5.2	6.7	8.4	9.1	9.1	9.4	9.1	7.7	6.7	5.7	6.2
83°	4.4	5.9	7.7	8.4	8.4	8.6	8.2	6.9	5.9	4.9	5.4
83.5°	4.0	5.2	6.9	7.7	7.7	7.9	7.4	6.2	5.2	4.2	4.7
84°	3.2	4.7	5.9	6.9	6.9	7.2	6.7	5.4	4.4	3.5	4.2
84.5°	2.7	4.0	5.4	6.2	6.2	6.4	5.9	4.7	4.0	3.0	3.7
85°	2.0	3.2	4.7	5.4	5.4	5.7	5.2	4.0	3.2	2.2	3.0
85.5°	1.5	2.7	4.2	4.9	4.9	4.9	4.7	3.5	2.7	2.0	2.5
86°	1.2	2.2	3.5	4.2	4.2	4.4	4.0	3.0	2.0	1.5	2.0
86.5°	1.0	1.7	3.0	3.7	3.7	3.7	3.5	2.5	1.7	1.2	1.5
87°	0.7	1.5	2.5	3.0	3.0	3.2	3.0	2.0	1.2	1.0	1.0
87.5°	0.5	1.2	2.0	2.5	2.5	2.5	2.5	1.7	1.0	0.7	0.7
88°	0.2	0.7	1.5	2.0	2.0	2.0	1.7	1.2	0.7	0.2	0.2
88.5°	0.0	0.5	1.0	1.5	1.5	1.5	1.2	1.0	0.5	0.0	0.0



TEST NUMBER: P776096
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776096

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1598.5	1598.5	1598.5	1598.5	1598.5	1598.5
0.5°	1598.2	1599.0	1599.2	1597.7	1597.0	1597.7
1°	1597.3	1598.0	1598.5	1597.5	1597.0	1598.2
1.5°	1596.0	1596.8	1597.7	1597.0	1596.8	1598.2
2°	1594.5	1595.8	1596.5	1596.3	1596.3	1598.0
2.5°	1593.1	1594.3	1595.5	1595.5	1595.8	1597.7
3°	1591.3	1592.8	1594.3	1594.5	1595.3	1597.5
3.5°	1589.6	1591.3	1592.8	1593.5	1594.5	1597.3
4°	1587.9	1589.3	1591.3	1592.3	1593.8	1596.8
4.5°	1585.6	1587.6	1589.6	1590.8	1592.8	1596.0
5°	1583.4	1585.6	1587.6	1589.3	1591.6	1595.3
5.5°	1580.9	1583.2	1585.6	1587.9	1590.3	1594.5
6°	1578.5	1580.9	1583.4	1585.9	1588.9	1593.3
6.5°	1576.0	1578.5	1581.2	1584.2	1587.4	1592.1
7°	1572.8	1575.5	1578.7	1581.9	1585.4	1590.8
7.5°	1570.1	1572.8	1576.3	1579.7	1583.7	1589.3
8°	1566.9	1569.6	1573.5	1577.2	1581.7	1587.6
8.5°	1563.7	1566.6	1570.6	1574.8	1579.7	1585.9
9°	1560.2	1563.2	1567.4	1572.1	1577.2	1583.7
9.5°	1556.5	1559.7	1564.1	1569.1	1574.8	1581.7
10°	1552.8	1556.0	1560.7	1566.1	1572.1	1579.5
10.5°	1548.8	1552.3	1557.2	1562.7	1569.3	1577.0
11°	1544.4	1548.1	1553.3	1559.2	1566.4	1574.3
11.5°	1540.2	1543.9	1549.3	1555.5	1563.2	1571.6
12°	1535.5	1539.4	1544.9	1551.8	1559.7	1568.3
12.5°	1531.0	1534.8	1540.7	1547.8	1556.2	1565.1
13°	1525.9	1530.1	1536.0	1543.6	1552.5	1561.9
13.5°	1520.7	1525.1	1531.3	1539.2	1548.6	1558.5
14°	1515.2	1519.9	1526.4	1534.5	1544.4	1554.8
14.5°	1509.8	1514.3	1521.2	1529.8	1540.2	1550.8
15°	1504.1	1508.8	1516.0	1524.9	1535.7	1546.6
15.5°	1498.2	1503.1	1510.3	1519.7	1530.8	1542.4
16°	1492.0	1497.0	1504.4	1514.3	1526.1	1537.7
16.5°	1485.8	1491.0	1498.4	1508.8	1520.9	1533.0
17°	1479.2	1484.6	1492.5	1502.9	1515.5	1527.8
17.5°	1472.8	1477.9	1486.1	1497.0	1509.8	1522.9
18°	1465.3	1471.3	1479.7	1491.0	1504.1	1517.5
18.5°	1458.4	1464.4	1473.0	1484.4	1497.9	1511.8
19°	1451.0	1457.2	1466.1	1477.7	1491.8	1506.1
19.5°	1443.4	1450.0	1458.9	1471.0	1485.6	1500.2
20°	1435.5	1442.6	1451.8	1464.1	1478.9	1494.0
20.5°	1427.5	1435.0	1444.3	1456.9	1472.0	1487.6
21°	1419.4	1427.1	1436.4	1449.3	1464.8	1480.7



TEST NUMBER: P776096

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1393.5	1402.1	1412.0	1425.6	1442.1	1459.2
23°	1384.3	1393.2	1403.3	1417.2	1433.7	1451.3
23.5°	1374.9	1383.8	1394.7	1408.5	1425.3	1443.1
24°	1365.5	1374.7	1385.3	1399.4	1416.7	1435.0
24.5°	1355.9	1365.3	1376.2	1390.2	1407.8	1426.6
25°	1346.0	1355.7	1366.5	1380.9	1398.6	1417.9
25.5°	1335.7	1345.5	1356.9	1371.2	1389.3	1408.8
26°	1324.3	1335.2	1346.0	1360.8	1379.6	1399.6
26.5°	1312.7	1323.8	1334.9	1349.7	1369.7	1390.0
27°	1300.1	1312.2	1322.8	1338.4	1359.4	1380.4
27.5°	1286.7	1299.1	1310.5	1326.5	1348.3	1369.5
28°	1272.9	1286.0	1297.4	1313.4	1337.1	1359.4
28.5°	1258.6	1271.2	1283.5	1300.6	1325.0	1347.8
29°	1243.3	1256.4	1269.2	1287.2	1312.7	1336.6
29.5°	1227.7	1240.3	1254.1	1273.2	1299.8	1324.5
30°	1210.9	1224.0	1238.3	1258.1	1286.2	1312.4
30.5°	1193.6	1205.5	1221.8	1243.5	1272.4	1298.8
31°	1175.6	1187.9	1204.0	1227.7	1257.3	1285.8
31.5°	1157.5	1168.7	1186.2	1211.9	1242.0	1271.2
32°	1138.0	1148.7	1167.7	1194.8	1226.2	1256.1
32.5°	1118.3	1127.7	1148.7	1178.5	1209.7	1240.1
33°	1097.8	1108.6	1129.1	1161.3	1192.1	1224.0
33.5°	1076.5	1088.1	1108.9	1143.0	1174.6	1206.2
34°	1055.5	1067.4	1088.9	1123.2	1156.3	1187.2
34.5°	1034.0	1045.9	1068.1	1103.9	1136.8	1166.9
35°	1011.8	1025.6	1047.6	1083.4	1116.5	1146.4
35.5°	989.6	1004.9	1027.1	1062.2	1095.8	1124.9
36°	966.6	983.6	1005.4	1038.5	1073.6	1101.7
36.5°	943.6	961.2	983.9	1016.3	1050.3	1077.8
37°	919.7	938.2	961.2	992.0	1025.1	1053.6
37.5°	895.2	914.7	937.2	967.3	999.9	1028.4
38°	870.0	889.8	912.5	941.2	972.0	1002.7
38.5°	843.3	863.3	886.8	914.0	944.9	976.5
39°	816.2	835.7	860.4	885.3	914.5	950.3
39.5°	788.5	807.0	831.7	856.2	885.1	923.4
40°	760.3	778.4	803.3	826.0	854.2	896.0
40.5°	732.7	750.2	773.4	795.9	824.3	868.3
41°	704.5	722.5	744.0	765.3	794.2	839.9
41.5°	676.3	695.6	714.6	735.1	763.8	811.0
42°	648.9	668.9	685.5	705.0	733.2	781.3
42.5°	621.5	642.3	656.3	674.9	704.0	751.4
43°	594.3	616.1	628.2	644.2	674.4	721.8
43.5°	567.2	588.4	600.0	615.1	645.2	692.9

TEST NUMBER: P776096

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	491.3	509.1	516.8	529.6	561.7	608.9
45.5°	467.6	483.2	490.1	502.9	536.0	582.0
46°	444.6	458.5	463.7	477.2	510.8	554.6
46.5°	421.2	434.3	438.0	452.8	485.9	527.1
47°	399.7	410.6	413.5	428.1	461.4	500.0
47.5°	379.2	386.8	390.3	405.6	437.5	474.3
48°	359.9	364.4	367.8	383.6	414.0	448.8
48.5°	340.2	342.9	346.8	362.6	392.0	423.9
49°	322.4	322.6	326.8	342.9	369.8	400.2
49.5°	305.3	303.3	308.0	324.1	348.8	377.7
50°	289.3	285.6	290.5	305.8	328.0	355.2
50.5°	273.5	268.8	273.9	288.5	309.0	334.0
51°	259.6	254.2	258.6	272.7	290.5	313.5
51.5°	246.0	241.1	245.0	257.9	273.5	294.0
52°	233.2	229.2	232.4	243.8	257.6	275.4
52.5°	222.6	218.4	220.6	230.5	242.6	257.9
53°	212.2	208.2	210.0	218.1	228.5	241.3
53.5°	201.8	198.6	199.6	206.5	215.2	226.5
54°	191.2	189.7	190.2	195.6	203.1	212.7
54.5°	180.8	181.1	181.3	185.5	191.9	200.6
55°	171.9	172.7	172.7	176.1	181.8	189.5
55.5°	164.0	164.8	164.8	167.2	172.2	179.1
56°	156.9	157.6	157.6	159.6	163.5	170.0
56.5°	150.4	151.4	151.2	152.9	156.4	161.8
57°	144.3	145.0	145.0	146.5	149.9	154.9
57.5°	138.1	138.8	138.6	140.1	143.5	148.2
58°	131.9	132.7	132.4	133.6	137.1	141.8
58.5°	125.7	126.5	126.0	127.5	130.4	135.4
59°	120.1	120.5	120.3	121.3	124.0	128.7
59.5°	114.4	115.1	114.6	115.4	118.1	122.5
60°	108.7	109.4	108.9	109.9	112.4	116.3
60.5°	103.7	104.2	103.7	104.5	106.7	110.2
61°	98.8	99.3	98.6	99.3	101.3	104.5
61.5°	93.9	94.4	93.9	94.6	96.3	99.1
62°	89.4	89.9	89.2	89.9	91.6	93.9
62.5°	85.0	86.0	85.0	85.7	87.2	88.7
63°	80.8	82.0	81.0	81.8	83.0	84.2
63.5°	76.8	77.8	77.1	77.6	78.8	80.0
64°	73.1	73.9	73.1	73.6	74.6	75.6
64.5°	69.4	69.7	69.2	69.4	70.4	71.4
65°	66.0	66.2	65.7	66.0	66.7	67.2
65.5°	62.5	62.7	62.2	62.5	63.0	63.2
66°	59.3	59.5	59.0	59.3	59.5	59.8



TEST NUMBER: P776096

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	50.6	50.9	50.4	50.4	50.4	50.1
68°	47.9	48.2	47.7	47.9	47.4	47.4
68.5°	45.5	45.7	45.2	45.2	45.0	44.5
69°	43.0	43.2	42.7	43.0	42.2	42.0
69.5°	40.8	41.0	40.5	40.5	40.0	39.5
70°	38.5	38.8	38.3	38.3	37.5	37.3
70.5°	36.3	36.6	36.1	36.1	35.3	35.1
71°	34.3	34.6	34.1	34.1	33.3	32.9
71.5°	32.4	32.6	32.1	32.1	31.4	30.9
72°	30.6	30.6	30.4	30.4	29.4	28.9
72.5°	28.9	28.9	28.7	28.7	27.7	27.2
73°	27.2	27.2	26.9	26.9	25.9	25.4
73.5°	25.4	25.7	25.2	25.2	24.2	24.0
74°	24.0	24.0	23.7	23.7	22.7	22.5
74.5°	22.5	22.5	22.2	22.2	21.2	21.0
75°	21.2	21.2	21.0	20.7	20.0	19.5
75.5°	20.0	19.8	19.5	19.5	18.5	18.3
76°	18.8	18.5	18.3	18.0	17.3	17.0
76.5°	17.5	17.3	17.0	17.0	16.1	15.8
77°	16.3	16.3	16.1	15.8	14.8	14.6
77.5°	15.1	15.1	14.8	14.6	13.8	13.6
78°	13.8	14.1	13.8	13.6	12.6	12.6
78.5°	12.8	13.1	12.8	12.6	11.6	11.6
79°	11.9	12.1	11.9	11.6	10.9	10.6
79.5°	11.1	11.1	10.9	10.6	9.9	9.6
80°	10.1	10.1	10.1	9.6	8.9	8.9
80.5°	9.1	9.4	9.1	8.9	8.2	8.2
81°	8.4	8.6	8.4	8.2	7.4	7.4
81.5°	7.7	7.9	7.7	7.4	6.4	6.4
82°	6.9	7.2	6.9	6.7	5.7	5.9
82.5°	6.2	6.2	6.2	5.9	4.9	5.2
83°	5.4	5.7	5.4	5.2	4.2	4.4
83.5°	4.9	4.9	4.7	4.4	3.7	4.0
84°	4.2	4.2	4.2	4.0	3.2	3.2
84.5°	3.7	3.7	3.5	3.5	2.5	2.7
85°	3.0	3.0	3.0	3.0	2.2	2.0
85.5°	2.5	2.5	2.5	2.2	1.7	1.5
86°	2.0	2.0	2.0	1.7	1.5	1.2
86.5°	1.5	1.5	1.2	1.2	1.0	1.0
87°	0.7	1.0	0.7	0.7	0.7	0.7
87.5°	0.2	0.5	0.2	0.5	0.5	0.5
88°	0.0	0.0	0.0	0.0	0.2	0.2
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776096

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

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



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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report





21.5°	1473.7	1494.0	1502.6	1505.1	1497.0	1486.1	1470.0	1452.2	1437.4	1418.4	1412.0
22°	1466.6	1487.3	1496.5	1498.7	1490.5	1479.4	1462.9	1444.8	1429.8	1410.0	1403.3



44°	664.5	738.4	771.5	777.6	755.9	731.7	705.3	672.9	637.1	572.1	544.4
44.5°	636.6	708.7	740.8	748.0	726.0	701.8	674.4	645.0	610.1	546.7	520.0



66.5°	56.3	64.0	67.4	69.9	69.7	70.2	69.7	67.4	63.2	58.8	58.1
67°	53.1	60.3	64.0	66.2	66.2	66.7	66.0	64.0	59.8	55.6	55.1



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

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21.5°	1411.0	1418.9	1428.5	1441.6	1457.4	1473.7
22°	1402.3	1410.5	1420.1	1433.7	1450.0	1466.6



44°	541.5	561.5	572.1	586.4	616.6	664.5
44.5°	516.3	535.3	543.9	558.0	588.9	636.6

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66.5°	56.3	56.6	56.1	56.3	56.3	56.3
67°	53.4	53.6	53.1	53.4	53.4	53.1

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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)