

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: P775937

Luminaire Tested: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B034)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K
Description: 4 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3002.2 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.14 / 1.22
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

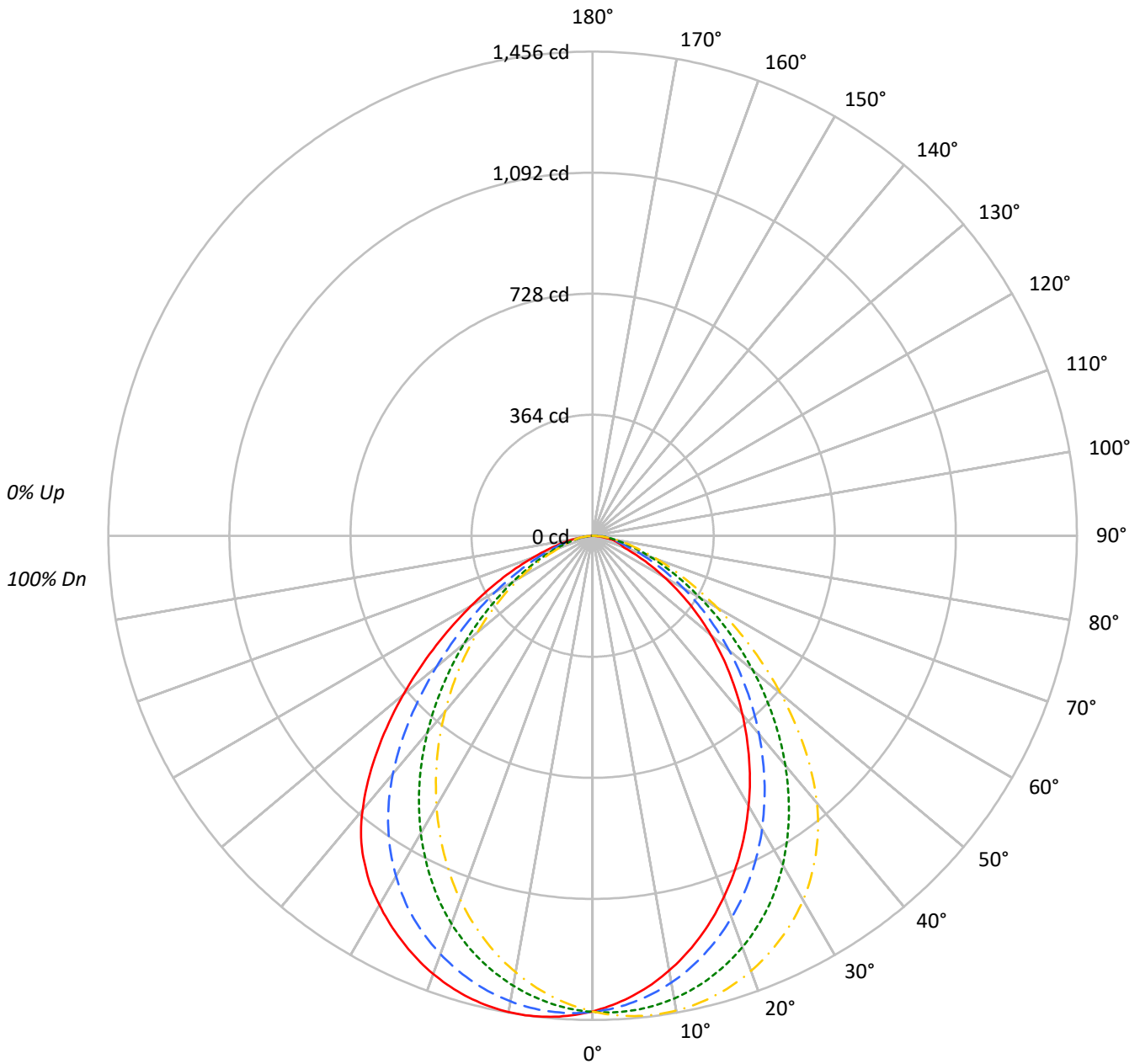
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775937

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Luminous Intensity Polar Plot





TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65																			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																			
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50																			
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45																			
7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40																			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33																			
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	180091	180091	180091	180091
5°	175397	180943	183445	178442
10°	169630	180569	185860	175560
15°	162679	179031	187291	171539
20°	154725	176301	187752	166189
25°	145858	172200	187322	158995
30°	136309	166099	186299	150056
35°	125995	157997	183931	139377
40°	115000	148087	176771	126943
45°	103281	136367	163064	113194
50°	90826	123052	145392	98775
55°	77343	108653	125943	83772
60°	62698	93959	106268	69595
65°	47824	80164	88085	56847
70°	36170	67852	69324	45406
75°	37927	56745	54411	36225
80°	34715	49645	38701	27830
85°	17328	50394	10830	14873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 89.5°
 Luminance: 184595 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	4.5
10°-20°	378.5	12.6
20°-30°	550.3	18.3
30°-40°	616.4	20.5
40°-50°	557.7	18.6
50°-60°	405.0	13.5
60°-70°	231.7	7.7
70°-80°	102.8	3.4
80°-90°	24.9	0.8
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°	1063.6	35.4
0°-40°	1680.0	56.0
0°-60°	2642.7	88.0
0°-90°	3002.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3002.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1431	1431	1431	1431	1431	
5°	1388	1432	1452	1412	1388	131
15°	1249	1374	1438	1317	1249	351
25°	1050	1240	1349	1145	1050	482
35°	820	1028	1197	907	820	512
45°	580	766	916	636	580	447
55°	352	495	574	382	352	315
65°	161	269	296	191	161	162
75°	78	117	112	74	78	80
85°	12	35	8	10	12	19
90°	0	8	0	0	0	



TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0
0.5°	1427.0	1430.5	1430.5	1430.3	1433.0	1433.0	1433.3	1433.3	1433.3	1435.3	1433.3
1°	1423.2	1427.8	1428.8	1429.8	1433.8	1434.8	1435.8	1436.3	1436.0	1437.3	1434.5
1.5°	1419.7	1425.0	1426.8	1429.0	1434.0	1436.5	1438.3	1439.1	1438.8	1439.3	1435.5
2°	1415.7	1421.7	1424.8	1428.0	1434.5	1437.8	1440.6	1441.8	1441.3	1441.1	1436.3
2.5°	1411.7	1418.5	1422.5	1427.0	1434.5	1439.1	1442.6	1444.1	1443.6	1442.6	1436.8
3°	1407.2	1415.0	1420.0	1425.8	1434.5	1440.1	1444.3	1446.3	1445.8	1443.8	1437.0
3.5°	1402.9	1411.2	1417.2	1424.3	1434.3	1441.1	1446.1	1448.3	1447.6	1445.1	1437.3
4°	1398.2	1407.4	1414.5	1422.5	1433.8	1441.8	1447.6	1450.1	1449.3	1445.8	1437.0
4.5°	1393.4	1403.4	1411.2	1420.7	1433.0	1442.3	1448.8	1451.8	1450.8	1446.6	1436.8
5°	1388.4	1398.9	1407.9	1418.7	1432.3	1442.6	1449.8	1453.4	1452.1	1447.1	1436.5
5.5°	1383.1	1394.6	1404.4	1416.5	1431.3	1442.6	1450.6	1454.4	1453.1	1447.6	1435.8
6°	1377.6	1389.9	1400.7	1414.0	1430.0	1442.3	1451.3	1455.6	1454.1	1447.6	1435.0
6.5°	1372.1	1385.1	1396.9	1411.2	1428.5	1442.1	1451.8	1456.4	1454.9	1447.6	1434.0
7°	1366.3	1380.1	1392.9	1408.4	1426.8	1441.6	1452.1	1456.9	1455.4	1447.3	1432.8
7.5°	1360.3	1374.8	1388.6	1405.4	1425.0	1441.1	1452.1	1457.4	1455.6	1446.8	1431.5
8°	1354.0	1369.3	1384.1	1402.2	1423.0	1440.1	1452.1	1457.6	1455.9	1446.3	1429.8
8.5°	1347.7	1363.5	1379.3	1398.7	1420.7	1438.8	1451.8	1457.6	1455.6	1445.6	1428.0
9°	1341.2	1357.8	1374.6	1395.1	1418.5	1437.5	1451.1	1457.6	1455.4	1444.3	1426.3
9.5°	1334.2	1351.7	1369.6	1391.1	1415.7	1436.0	1450.6	1457.1	1455.1	1443.3	1424.0
10°	1327.4	1345.5	1364.3	1387.1	1413.0	1434.5	1449.6	1456.6	1454.4	1441.8	1421.7
10.5°	1320.1	1339.0	1358.8	1382.9	1409.7	1432.5	1448.6	1455.9	1453.6	1440.3	1419.2
11°	1313.1	1332.7	1353.3	1378.6	1406.4	1430.5	1447.3	1454.9	1452.3	1438.6	1416.5
11.5°	1305.3	1325.7	1347.5	1374.1	1403.2	1428.3	1445.8	1453.9	1451.3	1436.5	1413.7
12°	1297.8	1319.1	1341.5	1369.1	1399.7	1425.8	1444.3	1452.6	1449.8	1434.5	1410.7
12.5°	1290.0	1311.9	1335.2	1364.3	1395.9	1423.2	1442.3	1451.1	1448.3	1432.3	1407.4
13°	1282.0	1304.6	1328.9	1359.0	1391.9	1420.5	1440.3	1449.3	1446.6	1429.8	1404.2
13.5°	1274.0	1297.1	1322.4	1353.5	1387.9	1417.5	1438.3	1447.3	1444.6	1427.0	1400.4
14°	1265.7	1289.5	1315.6	1348.0	1383.4	1414.2	1435.8	1445.3	1442.3	1424.3	1396.7
14.5°	1257.2	1281.8	1308.6	1342.2	1378.8	1410.7	1433.3	1443.1	1439.8	1421.2	1392.6
15°	1248.6	1274.0	1301.8	1336.4	1374.1	1407.2	1430.5	1440.8	1437.5	1418.0	1388.9
15.5°	1239.9	1265.4	1294.3	1330.2	1369.1	1403.4	1427.5	1438.0	1434.8	1414.5	1384.4
16°	1231.1	1257.4	1287.0	1323.9	1363.8	1399.4	1424.3	1435.3	1431.8	1411.0	1379.8
16.5°	1221.8	1249.1	1279.2	1317.6	1358.8	1395.4	1421.0	1432.3	1428.5	1407.2	1375.3
17°	1212.8	1240.6	1271.7	1311.1	1353.3	1391.1	1417.5	1429.3	1425.5	1403.2	1370.6
17.5°	1203.5	1231.8	1263.7	1304.1	1347.5	1386.6	1413.7	1425.8	1422.0	1398.9	1365.5
18°	1194.2	1223.0	1255.7	1297.1	1341.7	1381.9	1410.0	1422.2	1418.2	1394.9	1360.5
18.5°	1184.4	1214.0	1247.4	1289.8	1335.7	1377.1	1405.9	1418.5	1414.5	1390.4	1355.0
19°	1174.6	1204.7	1239.1	1282.3	1329.4	1372.1	1401.7	1414.7	1410.5	1385.6	1349.7
19.5°	1165.1	1195.4	1230.3	1274.7	1323.1	1366.8	1397.2	1410.5	1406.2	1380.8	1344.2
20°	1155.3	1186.2	1221.8	1267.2	1316.4	1361.5	1392.6	1406.2	1401.9	1376.1	1338.4
20.5°	1145.0	1176.6	1213.0	1259.2	1309.6	1356.0	1387.9	1401.9	1397.4	1370.8	1332.4
21°	1135.0	1166.8	1204.0	1251.1	1302.6	1350.2	1382.9	1397.2	1392.6	1365.5	1326.4



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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°	1103.9	1137.2	1176.1	1225.8	1280.5	1331.9	1367.1	1382.4	1377.6	1348.7	1307.1
23°	1093.6	1127.2	1166.6	1217.3	1273.0	1325.4	1361.5	1377.1	1372.1	1343.0	1300.3
23.5°	1082.8	1116.7	1156.8	1208.2	1264.9	1318.6	1355.8	1371.8	1366.8	1336.9	1293.5
24°	1072.0	1106.9	1147.0	1199.0	1256.9	1312.1	1349.7	1366.0	1361.0	1330.7	1286.3
24.5°	1061.2	1096.3	1137.0	1189.7	1248.6	1304.8	1343.7	1360.3	1355.3	1324.4	1278.7
25°	1050.4	1085.6	1126.7	1180.4	1240.1	1297.8	1337.4	1354.5	1349.0	1318.1	1271.2
25.5°	1039.4	1075.0	1116.4	1170.6	1231.3	1290.3	1331.2	1348.2	1343.0	1311.6	1263.4
26°	1028.6	1064.5	1105.6	1160.8	1222.5	1282.5	1324.7	1342.2	1336.9	1304.8	1255.4
26.5°	1017.3	1053.7	1095.3	1150.5	1213.3	1274.7	1317.9	1335.9	1330.4	1297.8	1247.1
27°	1006.3	1042.7	1084.8	1140.8	1203.7	1266.9	1311.1	1329.7	1323.9	1290.8	1238.3
27.5°	995.0	1031.6	1074.0	1130.5	1194.2	1258.4	1304.1	1323.1	1317.4	1283.8	1229.6
28°	983.7	1020.6	1062.7	1119.7	1184.4	1249.9	1296.8	1316.1	1310.4	1276.5	1220.5
28.5°	972.4	1009.5	1052.2	1108.9	1174.4	1241.1	1289.0	1309.6	1303.6	1268.5	1211.0
29°	960.9	998.3	1041.2	1097.9	1164.1	1232.3	1281.5	1302.6	1296.6	1260.7	1201.5
29.5°	949.3	987.0	1030.1	1087.1	1153.6	1222.8	1273.5	1295.5	1289.5	1252.4	1191.9
30°	938.0	975.7	1018.1	1076.0	1143.0	1213.3	1265.4	1288.3	1282.0	1244.1	1182.2
30.5°	926.3	964.4	1007.0	1064.5	1132.5	1203.2	1256.9	1280.7	1274.7	1235.3	1171.9
31°	914.5	952.6	995.5	1053.2	1121.4	1193.2	1248.1	1273.0	1267.2	1226.3	1161.6
31.5°	902.9	941.3	984.0	1041.7	1110.1	1182.9	1239.4	1265.2	1259.7	1217.3	1151.3
32°	891.4	929.5	971.9	1029.9	1098.9	1172.9	1230.1	1257.2	1251.6	1208.0	1140.5
32.5°	879.6	917.7	960.4	1018.6	1087.6	1162.1	1220.3	1248.6	1243.9	1198.2	1129.7
33°	867.8	906.2	948.3	1006.3	1076.0	1151.5	1210.5	1239.9	1235.3	1188.2	1118.4
33.5°	856.0	894.4	936.8	994.5	1064.2	1140.5	1200.5	1231.1	1226.1	1177.9	1107.1
34°	844.2	882.6	924.5	982.7	1052.4	1129.5	1190.4	1221.8	1216.3	1168.1	1095.3
34.5°	832.2	870.8	912.7	970.7	1040.2	1118.2	1180.1	1212.3	1206.7	1157.1	1083.6
35°	820.1	858.8	900.4	958.4	1028.4	1106.6	1169.6	1202.2	1197.2	1146.3	1071.5
35.5°	808.3	847.0	888.4	945.8	1016.1	1095.1	1158.8	1192.4	1187.7	1135.0	1058.7
36°	796.3	834.9	876.1	933.5	1003.8	1083.3	1147.8	1181.9	1177.4	1123.4	1046.2
36.5°	784.5	823.1	864.3	921.2	991.5	1071.0	1136.5	1171.6	1166.6	1110.6	1032.9
37°	772.2	811.1	852.2	908.9	978.9	1058.7	1125.0	1160.6	1155.3	1098.1	1019.6
37.5°	760.4	798.8	839.4	896.4	965.9	1046.4	1112.9	1149.5	1143.8	1085.1	1006.0
38°	748.1	786.8	827.4	883.6	953.1	1033.6	1100.6	1137.7	1131.0	1071.5	992.2
38.5°	736.6	775.0	814.9	871.1	940.3	1020.6	1088.3	1125.5	1118.2	1057.5	978.2
39°	724.5	762.7	802.6	858.0	927.3	1008.0	1075.5	1112.2	1104.9	1043.2	963.4
39.5°	712.3	750.9	790.3	846.0	914.2	994.7	1062.7	1098.6	1090.3	1028.4	948.8
40°	700.0	738.8	778.0	833.2	901.4	981.4	1048.9	1084.3	1076.0	1013.3	933.8
40.5°	688.4	726.8	765.7	820.1	887.9	967.6	1035.1	1070.3	1061.2	997.8	918.5
41°	675.9	714.8	753.1	807.3	874.6	954.1	1020.6	1055.2	1046.2	981.9	903.2
41.5°	664.1	702.7	741.1	794.8	861.3	940.3	1006.8	1040.7	1030.6	965.9	887.9
42°	652.0	690.4	728.8	781.7	847.7	926.0	991.7	1025.1	1014.8	949.6	872.1
42.5°	640.2	678.6	716.3	769.0	834.2	912.0	976.9	1010.3	999.0	933.5	856.3
43°	628.2	666.6	704.0	756.4	820.9	897.9	961.6	994.5	983.0	916.2	840.2
43.5°	616.4	654.8	691.7	743.6	807.3	883.4	946.6	978.7	966.4	899.4	824.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	580.3	618.9	655.1	705.2	766.2	838.9	899.7	930.0	916.2	848.2	775.0
45.5°	569.0	606.9	642.8	692.2	752.6	824.1	884.1	913.7	899.2	831.2	758.7
46°	557.0	595.1	630.7	679.4	738.8	808.8	867.8	897.2	882.1	814.1	741.9
46.5°	545.2	583.5	618.7	666.8	724.8	794.0	852.0	880.3	864.5	796.8	725.5
47°	533.4	571.5	606.6	654.0	711.0	778.7	835.9	863.3	847.2	779.5	709.0
47.5°	521.8	559.7	594.6	641.5	697.2	763.7	819.6	846.2	829.7	762.4	692.9
48°	510.0	547.9	582.5	628.7	683.7	748.6	803.3	829.4	812.4	745.4	676.6
48.5°	498.5	536.4	570.5	616.2	669.9	733.3	787.3	812.6	795.0	728.6	660.6
49°	487.0	524.8	558.7	603.6	656.1	718.3	771.0	795.3	777.2	711.2	644.8
49.5°	475.7	513.1	547.2	591.3	642.3	703.2	754.6	778.2	759.9	694.7	629.0
50°	463.9	501.8	535.1	579.0	628.5	688.2	738.3	760.9	742.6	677.6	613.2
50.5°	452.6	490.2	523.3	566.2	614.9	673.1	722.3	743.6	725.0	661.3	597.3
51°	441.3	478.7	511.8	553.7	601.1	657.8	706.0	726.8	708.0	644.8	582.3
51.5°	430.0	467.1	500.3	541.7	587.6	643.3	689.9	709.7	690.4	628.2	567.0
52°	419.0	455.9	489.0	529.6	574.3	628.2	674.1	692.7	673.4	612.1	551.9
52.5°	407.9	444.6	477.4	517.6	561.0	613.4	657.8	675.4	656.3	596.1	537.1
53°	396.6	433.5	465.9	505.0	547.7	598.6	641.8	658.6	639.7	580.3	522.3
53.5°	385.1	422.0	454.6	493.2	534.1	584.3	625.9	641.8	622.9	564.2	507.8
54°	374.3	411.2	443.6	481.2	521.1	569.5	610.1	625.2	605.9	548.9	493.5
54.5°	363.3	399.9	432.3	469.1	508.3	555.5	594.8	608.1	589.8	533.6	479.4
55°	352.5	389.4	421.2	457.6	495.2	541.4	579.5	592.6	574.0	518.6	465.6
55.5°	341.7	378.3	410.2	445.8	482.4	527.4	564.0	575.8	557.5	503.5	451.3
56°	330.9	367.8	399.4	434.0	469.4	513.1	548.4	559.7	541.7	488.5	438.0
56.5°	320.1	357.0	388.6	422.5	457.1	499.3	533.4	543.7	525.8	473.9	425.0
57°	309.6	346.5	377.8	411.2	444.8	485.7	518.6	527.9	510.3	459.6	411.7
57.5°	299.3	335.9	367.0	399.7	432.5	472.4	504.0	512.3	495.0	445.6	398.9
58°	288.8	325.6	356.5	388.4	420.2	458.9	489.2	497.0	480.2	431.8	386.4
58.5°	278.7	315.4	346.2	377.3	408.4	445.8	474.9	481.9	465.1	417.7	373.8
59°	268.7	305.6	335.9	366.5	396.4	432.8	460.6	467.1	450.3	404.4	361.8
59.5°	258.7	295.3	325.1	355.7	384.9	420.0	446.6	452.6	436.0	391.1	349.7
60°	249.1	285.5	315.1	345.2	373.3	407.2	432.8	438.3	422.2	378.3	337.9
60.5°	239.3	275.5	304.8	334.4	362.0	394.9	419.0	424.0	407.9	365.5	326.1
61°	229.8	265.9	295.0	324.1	351.0	382.6	405.7	410.2	394.6	353.0	315.1
61.5°	220.5	256.4	285.0	313.9	340.4	370.6	392.6	396.6	381.1	340.7	304.1
62°	211.5	247.1	275.7	304.1	329.4	358.8	379.6	383.3	368.5	329.2	293.3
62.5°	202.2	237.8	266.2	294.0	319.1	347.0	366.8	370.0	355.5	317.1	282.5
63°	193.7	228.8	256.9	284.5	308.6	335.4	354.2	357.3	342.7	305.6	272.2
63.5°	185.2	219.8	247.6	275.2	298.5	324.1	342.0	344.7	330.7	294.3	261.9
64°	176.9	210.7	239.1	265.9	288.5	313.1	329.9	332.7	318.6	284.0	252.1
64.5°	168.3	202.0	230.1	256.7	279.0	302.3	318.1	320.6	306.8	273.0	242.6
65°	160.6	193.7	221.5	247.9	269.2	291.8	306.8	308.8	295.8	262.7	233.3
65.5°	152.5	185.4	213.0	239.3	259.9	281.2	295.5	297.5	284.2	252.1	224.0
66°	144.8	177.1	205.0	230.8	250.9	271.0	284.5	286.3	272.5	242.4	215.3



TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	123.7	153.5	180.9	205.7	224.8	241.8	253.4	254.4	239.1	214.3	189.4
68°	117.4	146.3	173.6	197.9	216.8	232.3	243.1	243.9	228.6	205.0	181.6
68.5°	111.6	139.0	166.1	190.2	208.7	223.3	233.6	233.8	218.5	195.7	173.9
69°	106.1	132.0	158.8	182.6	200.5	214.8	224.3	224.3	208.5	186.4	166.3
69.5°	101.4	125.2	151.8	175.1	192.4	206.2	215.5	215.0	198.4	177.6	159.1
70°	98.3	118.7	144.8	167.8	184.4	197.9	206.7	205.7	188.4	169.3	151.8
70.5°	96.6	112.4	138.2	160.6	176.6	189.4	197.9	196.7	179.9	161.1	145.0
71°	94.8	106.9	131.7	153.8	169.3	181.4	189.2	187.4	171.4	153.3	138.2
71.5°	93.1	101.6	125.7	146.8	162.1	173.6	181.1	178.6	162.6	145.8	131.7
72°	91.3	97.3	119.7	140.2	155.0	166.3	173.1	170.3	154.5	138.5	125.4
72.5°	89.1	94.3	113.9	134.0	148.3	158.8	165.3	162.3	146.8	131.5	119.2
73°	86.8	92.1	108.6	127.7	141.5	151.8	158.3	154.5	139.2	124.4	113.1
73.5°	84.8	90.1	103.4	121.7	135.0	144.8	150.8	147.0	132.0	117.7	107.4
74°	82.5	88.1	98.6	115.9	128.7	138.5	143.8	139.7	125.2	111.1	101.6
74.5°	80.5	86.3	93.8	110.4	122.7	132.0	137.0	132.7	118.4	104.9	96.1
75°	78.0	84.3	89.6	105.1	116.7	125.7	130.7	125.9	111.9	98.8	90.8
75.5°	75.5	82.3	86.6	99.9	110.9	119.4	123.9	119.4	105.6	92.8	85.6
76°	72.8	80.0	83.5	95.1	105.6	113.6	117.9	112.9	99.3	87.1	80.3
76.5°	69.7	77.5	80.5	90.3	100.1	108.1	111.9	106.6	93.6	81.3	75.3
77°	67.0	75.0	77.3	86.3	95.1	102.6	106.1	100.4	87.6	75.8	70.5
77.5°	64.0	72.5	75.0	82.5	90.3	97.3	100.4	94.6	81.8	70.2	65.7
78°	61.0	69.7	73.0	78.8	85.6	92.1	94.8	88.8	76.0	65.0	60.7
78.5°	57.7	67.2	71.0	75.0	81.0	87.3	89.6	83.3	70.2	59.7	56.2
79°	54.4	64.2	68.7	71.3	76.8	82.5	84.3	77.8	64.5	54.4	51.7
79.5°	51.2	61.5	66.5	68.0	72.5	78.0	79.3	72.3	59.0	49.4	47.2
80°	47.9	58.5	64.0	64.7	68.5	73.5	74.5	67.0	53.4	44.7	42.9
80.5°	44.4	55.4	61.5	62.0	64.7	69.2	69.7	62.2	47.9	39.6	38.9
81°	40.9	52.2	59.0	59.2	61.0	65.0	65.0	56.9	42.4	35.1	34.9
81.5°	37.4	49.2	56.2	56.4	57.5	61.0	60.5	52.2	36.9	30.6	30.9
82°	33.9	45.7	53.4	53.7	53.9	56.9	55.7	47.4	31.4	26.8	27.1
82.5°	30.4	42.4	50.7	51.2	50.7	53.2	51.2	42.9	27.1	23.3	23.8
83°	26.3	38.9	47.9	48.4	47.4	49.2	46.9	38.4	22.6	19.8	20.6
83.5°	22.6	35.4	44.9	46.2	44.2	45.4	42.6	34.4	18.1	16.3	17.3
84°	18.8	31.9	42.1	43.7	40.9	41.6	38.6	30.1	13.8	12.8	14.0
84.5°	15.3	28.3	39.1	41.1	37.9	38.1	34.9	26.6	9.3	10.3	11.0
85°	12.0	24.8	36.4	38.6	34.9	34.6	31.1	23.1	7.5	8.0	8.0
85.5°	9.8	21.6	33.6	36.1	32.1	31.4	27.6	19.8	6.0	5.8	5.8
86°	8.5	18.8	30.9	33.4	29.4	28.1	24.6	16.3	5.0	3.8	3.5
86.5°	7.0	16.6	28.1	30.6	26.6	25.1	21.3	12.8	4.0	2.0	2.0
87°	5.8	14.6	25.3	27.6	24.1	22.1	18.1	10.0	3.0	1.0	0.8
87.5°	4.5	12.5	22.3	24.8	21.3	19.1	14.8	7.3	2.5	0.5	0.0
88°	3.3	10.5	19.6	21.8	18.6	16.1	11.5	5.0	1.5	0.3	0.0
88.5°	2.0	8.5	16.6	19.1	16.1	13.0	8.8	3.0	0.8	0.0	0.0



TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	2.8	8.3	9.5	7.5	5.5	2.0	0.3	0.0	0.0	0.0



TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0
0.5°	1430.5	1431.0	1428.8	1427.3	1426.8	1427.0
1°	1430.5	1429.8	1426.5	1424.0	1423.0	1423.2
1.5°	1430.3	1428.3	1423.7	1420.5	1419.2	1419.7
2°	1429.8	1426.5	1421.0	1417.0	1415.2	1415.7
2.5°	1429.0	1424.8	1418.0	1413.5	1411.2	1411.7
3°	1428.3	1422.7	1414.7	1409.2	1406.9	1407.2
3.5°	1427.0	1420.5	1411.5	1405.2	1402.4	1402.9
4°	1426.0	1418.0	1407.9	1400.7	1397.4	1398.2
4.5°	1424.5	1415.5	1403.9	1396.2	1392.4	1393.4
5°	1422.7	1412.5	1400.2	1391.4	1387.4	1388.4
5.5°	1421.0	1409.4	1395.9	1386.4	1382.1	1383.1
6°	1419.0	1406.4	1391.4	1381.1	1376.6	1377.6
6.5°	1416.7	1402.9	1387.1	1375.8	1370.8	1372.1
7°	1414.2	1399.4	1382.4	1370.3	1364.8	1366.3
7.5°	1411.7	1395.7	1377.3	1364.5	1358.8	1360.3
8°	1408.9	1391.6	1372.3	1358.5	1352.2	1354.0
8.5°	1405.9	1387.6	1366.8	1352.5	1345.7	1347.7
9°	1402.9	1383.1	1361.5	1346.2	1339.2	1341.2
9.5°	1399.4	1378.6	1355.5	1339.7	1332.2	1334.2
10°	1395.9	1373.8	1349.7	1332.9	1325.2	1327.4
10.5°	1392.4	1369.1	1343.7	1326.2	1318.1	1320.1
11°	1388.4	1363.8	1337.4	1319.1	1310.6	1313.1
11.5°	1384.4	1358.8	1331.2	1312.1	1303.1	1305.3
12°	1380.1	1353.0	1324.4	1304.6	1295.3	1297.8
12.5°	1375.8	1347.5	1317.6	1296.8	1287.5	1290.0
13°	1371.1	1341.7	1310.6	1289.3	1279.5	1282.0
13.5°	1366.3	1335.7	1303.6	1281.2	1271.0	1274.0
14°	1361.3	1329.4	1296.1	1273.2	1262.9	1265.7
14.5°	1356.3	1323.1	1288.8	1264.9	1254.4	1257.2
15°	1351.0	1316.6	1281.0	1256.7	1245.6	1248.6
15.5°	1345.5	1309.6	1273.0	1247.9	1236.8	1239.9
16°	1339.7	1302.8	1264.9	1239.4	1227.8	1231.1
16.5°	1333.9	1296.1	1256.9	1230.6	1218.8	1221.8
17°	1327.9	1288.5	1248.6	1221.5	1209.2	1212.8
17.5°	1321.9	1281.0	1239.9	1212.3	1199.7	1203.5
18°	1315.4	1273.5	1231.3	1203.0	1190.4	1194.2
18.5°	1309.1	1265.7	1222.3	1193.4	1180.6	1184.4
19°	1302.3	1257.7	1213.3	1183.9	1170.9	1174.6
19.5°	1295.5	1249.6	1204.0	1173.9	1160.8	1165.1
20°	1288.5	1240.9	1194.4	1164.1	1151.0	1155.3
20.5°	1281.2	1232.3	1184.9	1154.1	1141.0	1145.0
21°	1273.5	1223.3	1175.1	1143.8	1130.7	1135.0

TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1250.1	1195.9	1144.5	1112.2	1099.1	1103.9
23°	1241.6	1185.9	1134.0	1101.4	1088.6	1093.6
23.5°	1233.1	1176.4	1123.2	1090.3	1077.8	1082.8
24°	1224.0	1166.1	1112.4	1079.3	1066.7	1072.0
24.5°	1215.3	1155.8	1101.4	1068.0	1055.7	1061.2
25°	1205.7	1145.0	1090.1	1056.7	1044.4	1050.4
25.5°	1196.5	1134.7	1079.0	1045.4	1033.4	1039.4
26°	1186.4	1124.2	1067.2	1033.9	1022.1	1028.6
26.5°	1176.6	1113.4	1056.2	1022.1	1010.5	1017.3
27°	1166.6	1101.9	1044.2	1010.5	999.3	1006.3
27.5°	1156.3	1090.8	1032.6	998.8	987.7	995.0
28°	1145.8	1079.3	1020.3	986.7	975.9	983.7
28.5°	1135.5	1068.0	1008.8	974.9	964.1	972.4
29°	1124.4	1056.5	996.5	962.9	952.6	960.9
29.5°	1113.4	1044.7	984.7	950.8	940.8	949.3
30°	1102.6	1032.6	972.2	938.8	929.0	938.0
30.5°	1091.6	1020.6	959.9	926.5	917.0	926.3
31°	1080.0	1008.5	947.3	914.2	905.2	914.5
31.5°	1068.3	996.2	935.0	901.9	893.1	902.9
32°	1056.5	983.7	922.5	889.4	881.1	891.4
32.5°	1044.4	971.4	909.7	877.6	868.8	879.6
33°	1032.4	958.9	897.2	864.8	857.0	867.8
33.5°	1019.8	946.3	884.6	852.5	844.7	856.0
34°	1007.3	933.3	872.1	839.7	832.7	844.2
34.5°	994.7	920.2	859.3	827.2	820.6	832.2
35°	981.9	907.2	846.0	814.9	808.3	820.1
35.5°	968.7	894.4	833.2	802.3	796.3	808.3
36°	955.4	881.3	820.6	789.8	784.0	796.3
36.5°	942.1	867.8	807.8	777.5	772.0	784.5
37°	928.3	854.2	794.8	764.7	759.9	772.2
37.5°	914.5	841.0	781.7	752.1	747.6	760.4
38°	900.2	827.4	768.7	739.6	735.3	748.1
38.5°	886.9	813.9	755.9	727.3	723.3	736.6
39°	872.3	800.3	743.1	714.8	711.2	724.5
39.5°	857.8	786.5	730.1	702.7	699.2	712.3
40°	843.5	772.7	717.0	689.9	686.7	700.0
40.5°	828.9	758.9	704.0	677.6	674.9	688.4
41°	814.4	745.4	691.2	665.1	662.8	675.9
41.5°	799.8	731.6	678.1	653.0	650.8	664.1
42°	785.3	718.0	665.3	641.0	638.5	652.0
42.5°	770.7	704.5	652.5	628.5	627.0	640.2
43°	755.4	690.7	640.0	616.4	615.2	628.2
43.5°	740.6	676.9	627.0	604.1	602.9	616.4

TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	695.9	636.0	589.3	568.2	567.5	580.3
45.5°	681.4	622.9	577.0	556.2	555.7	569.0
46°	666.1	609.6	564.7	544.7	544.2	557.0
46.5°	651.5	596.1	552.4	532.9	532.4	545.2
47°	636.5	582.8	539.9	521.3	521.1	533.4
47.5°	621.7	569.5	527.6	509.5	509.5	521.8
48°	606.9	556.5	515.6	497.7	498.0	510.0
48.5°	592.3	543.2	503.3	486.5	486.5	498.5
49°	578.0	530.4	491.7	475.2	475.2	487.0
49.5°	563.5	517.6	479.7	463.4	464.1	475.7
50°	548.7	504.5	467.6	452.1	453.1	463.9
50.5°	534.4	491.7	455.9	441.0	441.6	452.6
51°	520.8	478.9	444.6	430.0	430.5	441.3
51.5°	506.5	466.4	433.3	418.5	419.7	430.0
52°	492.7	454.1	421.7	408.2	408.9	419.0
52.5°	478.9	441.8	410.4	397.1	398.1	407.9
53°	465.6	429.3	399.7	386.4	387.4	396.6
53.5°	452.1	417.5	388.6	375.6	376.6	385.1
54°	439.5	405.2	377.8	365.3	366.0	374.3
54.5°	426.5	393.6	367.3	355.0	355.7	363.3
55°	413.7	381.8	356.8	344.7	345.5	352.5
55.5°	400.9	370.8	346.5	334.7	335.2	341.7
56°	388.9	359.3	336.2	324.9	324.9	330.9
56.5°	376.8	348.7	326.4	315.1	314.9	320.1
57°	365.0	337.4	316.4	305.3	304.8	309.6
57.5°	353.5	326.9	306.6	295.8	294.8	299.3
58°	342.0	316.4	297.0	286.5	285.5	288.8
58.5°	330.7	306.3	287.5	277.2	275.5	278.7
59°	319.6	296.0	278.5	268.4	266.2	268.7
59.5°	308.8	286.5	269.2	259.4	256.7	258.7
60°	298.3	276.5	260.2	250.9	247.6	249.1
60.5°	287.8	267.2	251.4	241.8	238.3	239.3
61°	278.0	257.9	242.6	233.6	229.6	229.8
61.5°	267.9	248.9	234.3	225.3	220.8	220.5
62°	258.4	240.1	225.8	217.3	212.5	211.5
62.5°	248.9	231.3	217.3	209.0	204.0	202.2
63°	239.6	222.8	209.2	201.0	195.9	193.7
63.5°	230.8	214.8	201.2	193.2	187.9	185.2
64°	222.0	206.2	193.4	185.4	180.1	176.9
64.5°	213.8	198.7	185.7	177.9	172.6	168.3
65°	205.7	190.9	178.4	170.3	165.3	160.6
65.5°	197.4	183.4	170.8	163.1	158.1	152.5
66°	189.2	175.9	163.6	155.8	151.0	144.8



TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	166.8	155.0	143.3	135.5	130.2	123.7
68°	159.6	148.3	137.0	129.2	123.4	117.4
68.5°	152.8	141.7	130.7	123.2	116.9	111.6
69°	146.0	135.5	124.7	117.4	110.6	106.1
69.5°	139.5	129.2	118.9	111.6	104.6	101.4
70°	133.2	123.4	113.4	106.4	99.1	98.3
70.5°	127.2	117.7	107.9	101.6	94.3	96.6
71°	120.9	112.1	102.6	96.8	90.6	94.8
71.5°	115.2	106.6	97.8	92.3	88.8	93.1
72°	109.6	101.4	93.1	88.8	86.8	91.3
72.5°	104.4	96.3	90.1	85.3	85.0	89.1
73°	98.8	91.6	85.8	81.8	83.0	86.8
73.5°	93.8	87.3	81.5	78.5	81.0	84.8
74°	89.1	83.0	77.3	75.0	78.5	82.5
74.5°	84.3	78.8	73.0	72.5	76.3	80.5
75°	79.5	74.5	69.5	70.0	73.8	78.0
75.5°	75.3	70.0	66.2	67.7	71.0	75.5
76°	70.7	66.2	63.0	65.5	68.2	72.8
76.5°	66.5	62.5	59.7	63.2	65.5	69.7
77°	62.5	58.7	56.9	60.7	62.5	67.0
77.5°	58.5	55.2	53.9	58.0	59.7	64.0
78°	54.4	51.7	51.2	55.4	56.7	61.0
78.5°	50.4	48.2	48.2	52.7	53.4	57.7
79°	46.7	44.9	45.4	49.9	50.2	54.4
79.5°	42.9	41.4	42.9	47.2	46.9	51.2
80°	39.4	38.4	40.4	44.2	43.4	47.9
80.5°	35.9	35.4	37.9	41.4	40.1	44.4
81°	32.4	32.4	35.4	38.4	36.9	40.9
81.5°	29.1	29.6	32.9	35.4	33.4	37.4
82°	26.1	26.6	30.1	32.6	30.1	33.9
82.5°	23.1	23.8	27.3	29.6	26.8	30.4
83°	19.8	21.3	24.3	26.8	23.6	26.3
83.5°	16.8	18.6	21.6	24.1	20.6	22.6
84°	13.8	15.8	18.6	21.3	17.8	18.8
84.5°	10.8	13.0	15.6	18.6	15.3	15.3
85°	8.0	10.3	12.5	15.6	13.3	12.0
85.5°	5.5	7.8	9.3	12.5	11.3	9.8
86°	3.3	5.3	7.0	9.5	9.3	8.5
86.5°	1.3	2.8	4.8	7.3	7.5	7.0
87°	0.0	0.5	2.5	5.0	5.8	5.8
87.5°	0.0	0.0	0.3	2.5	3.8	4.5
88°	0.0	0.0	0.0	0.3	2.0	3.3
88.5°	0.0	0.0	0.0	0.3	0.5	2.0



TEST NUMBER: P775937

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.3	0.3	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°	1124.7	1157.1	1194.7	1242.9	1295.5	1344.2	1377.8	1392.4	1387.9	1360.0	1320.1
22°	1114.4	1147.3	1185.7	1234.6	1288.0	1338.2	1372.6	1387.6	1382.9	1354.5	1313.6



44°	604.1	642.8	679.4	730.6	793.3	868.5	931.0	962.4	949.8	882.3	807.3
44.5°	592.6	630.7	667.1	717.8	779.7	853.7	915.5	946.3	933.3	865.8	791.3



66.5°	137.5	168.8	196.7	222.3	241.8	260.9	273.7	275.5	260.9	232.8	206.7
67°	130.5	161.1	188.7	214.3	233.1	251.4	263.4	264.9	250.1	223.5	198.2



89°	0.8	6.5	13.3	15.8	13.3	10.5	6.0	1.5	0.3	0.0	0.0
89.5°	0.3	4.8	10.3	12.8	10.3	7.8	3.8	0.8	0.0	0.0	0.0

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21.5°	1265.7	1214.5	1165.1	1133.5	1120.2	1124.7
22°	1258.2	1205.2	1154.6	1122.9	1109.9	1114.4



44°	725.5	663.3	614.7	592.3	591.1	604.1
44.5°	711.2	649.8	601.9	580.0	579.3	592.6



66.5°	181.6	168.6	156.8	149.0	143.8	137.5
67°	174.1	161.6	149.8	142.2	137.0	130.5

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Scaled Data Report



89°	0.0	0.0	0.0	0.3	0.3	0.8
89.5°	0.0	0.0	0.0	0.3	0.3	0.3

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Scaled Data Report



(END OF REPORT)