

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: P776145

Luminaire Tested: HCDJBS1525CSD-HCD81TRMW-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B044)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD81TRMW-2500lm-2700K
Description: 8 INCH ROUND SHALLOW-WIDE MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

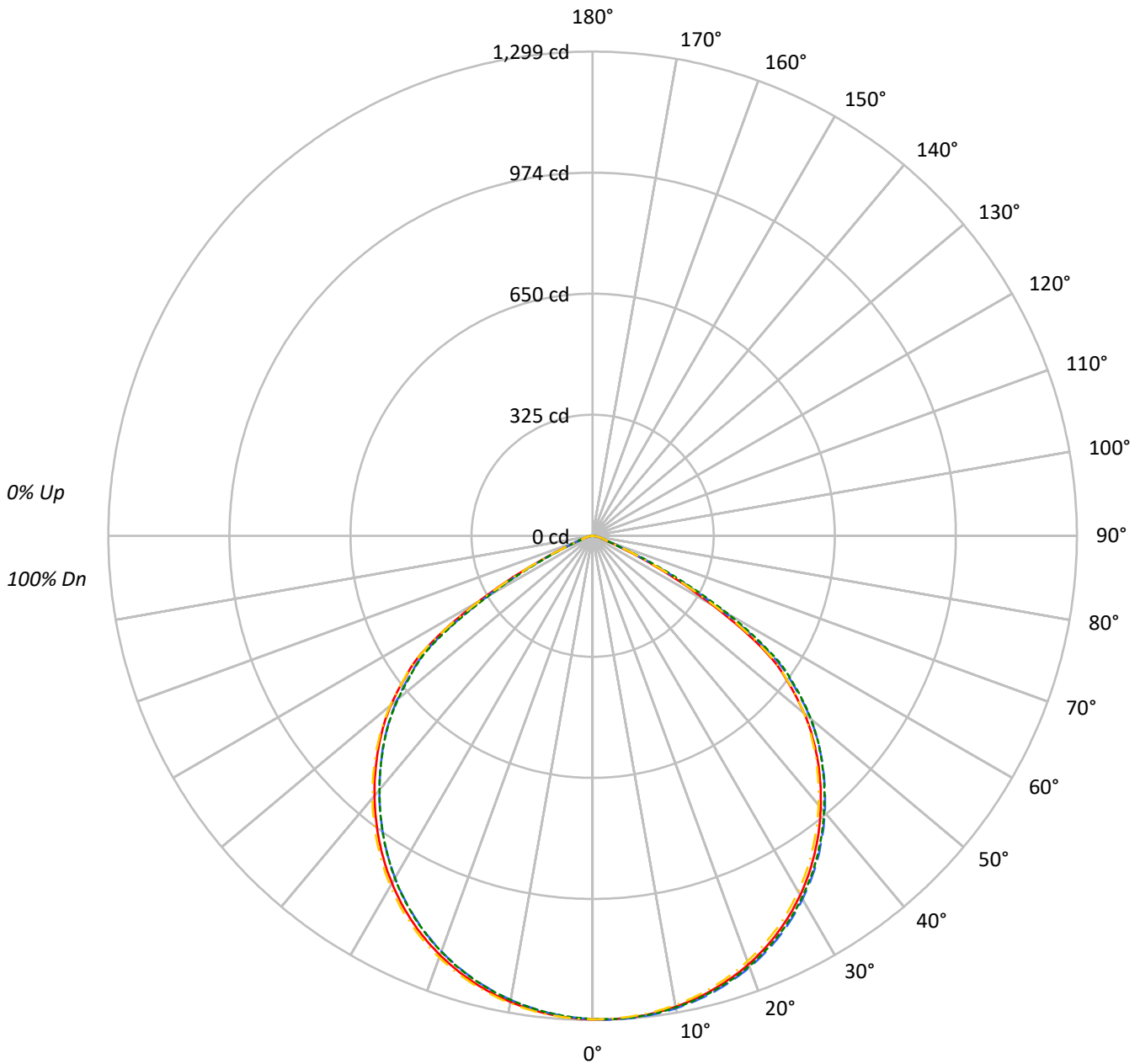
Lumens per Lamp: N/A
Luminaire Lumens: 2989.6 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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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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	98	96	97	95	93	94	92	91	89																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51																			
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45																			
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40																			
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36																			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32																			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	39607	39607	39607	39607
5°	39712	39728	39513	39409
10°	39775	39843	39368	39204
15°	39794	39911	39168	38937
20°	39741	39914	38900	38575
25°	39565	39811	38497	38072
30°	39244	39561	37954	37393
35°	38720	39134	37218	36499
40°	37937	38495	36276	35447
45°	36873	37628	35158	34217
50°	35157	36306	33537	32326
55°	32102	33661	30595	29307
60°	22702	25554	21622	19790
65°	11147	13336	10063	9081
70°	3544	3910	3571	3499
75°	2572	2890	2595	2654
80°	1793	2127	1793	1916
85°	1016	1436	1016	1191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 37710 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	4.1
10°-20°	352.3	11.8
20°-30°	533.2	17.8
30°-40°	635.5	21.3
40°-50°	641.4	21.5
50°-60°	509.5	17.0
60°-70°	165.2	5.5
70°-80°	25.3	0.8
80°-90°	4.4	0.1
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°	1008.3	33.7
0°-40°	1643.8	55.0
0°-60°	2794.6	93.5
0°-90°	2989.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1297	1297	1297	1297	1297	
5°	1296	1296	1289	1286	1296	123
15°	1259	1263	1239	1232	1259	355
25°	1174	1182	1143	1130	1174	541
35°	1039	1050	999	979	1039	649
45°	854	872	814	792	854	657
55°	603	632	575	551	603	520
65°	154	185	139	126	154	167
75°	22	24	22	22	22	24
85°	3	4	3	3	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1297.3	1297.3	1297.3	1297.3	1297.3	1297.3	1297.3	1297.3	1297.3	1297.3	1297.3
0.5°	1298.0	1297.8	1297.8	1298.0	1296.8	1297.1	1297.5	1297.5	1297.3	1296.8	1296.6
1°	1298.0	1298.0	1298.3	1298.5	1297.3	1297.3	1297.3	1297.3	1296.8	1296.1	1295.8
1.5°	1298.3	1298.3	1298.5	1298.7	1297.5	1297.3	1297.3	1297.1	1296.1	1295.4	1294.9
2°	1298.0	1298.3	1298.7	1299.0	1297.8	1297.3	1297.1	1296.6	1295.6	1294.4	1293.9
2.5°	1297.8	1298.3	1298.7	1299.0	1297.8	1297.3	1296.6	1295.8	1294.6	1293.7	1292.9
3°	1297.8	1298.3	1298.7	1299.0	1297.5	1297.1	1296.3	1295.1	1293.9	1292.4	1292.0
3.5°	1297.3	1298.0	1298.5	1299.0	1297.5	1296.6	1295.6	1294.4	1292.9	1291.2	1290.5
4°	1297.1	1297.8	1298.3	1298.5	1297.3	1296.3	1294.9	1293.4	1291.7	1290.0	1289.3
4.5°	1296.3	1297.3	1298.0	1298.3	1296.8	1295.6	1294.1	1292.4	1290.5	1288.6	1287.6
5°	1295.8	1296.8	1297.8	1297.8	1296.3	1295.1	1293.2	1291.2	1289.3	1287.1	1286.2
5.5°	1295.1	1296.1	1297.1	1297.3	1295.6	1294.4	1292.2	1290.0	1287.6	1285.4	1284.5
6°	1294.1	1295.4	1296.3	1296.6	1294.9	1293.4	1291.0	1288.8	1286.2	1283.7	1282.8
6.5°	1293.2	1294.6	1295.6	1295.8	1294.1	1292.4	1289.8	1287.4	1284.5	1281.8	1280.8
7°	1292.0	1293.7	1294.9	1294.9	1293.2	1291.2	1288.6	1285.9	1282.8	1279.9	1278.6
7.5°	1290.8	1292.4	1293.9	1293.9	1292.2	1290.0	1287.4	1284.0	1280.8	1277.9	1276.7
8°	1289.5	1291.2	1292.7	1292.9	1291.0	1288.8	1285.7	1282.3	1278.9	1275.7	1274.3
8.5°	1287.8	1290.0	1291.5	1291.5	1289.8	1287.1	1284.0	1280.3	1276.7	1273.6	1272.1
9°	1286.4	1288.8	1290.3	1290.3	1288.3	1285.7	1282.0	1278.4	1274.5	1271.1	1269.7
9.5°	1284.7	1287.1	1288.8	1288.8	1286.9	1284.2	1280.3	1276.2	1272.3	1268.7	1267.0
10°	1283.0	1285.7	1287.1	1287.1	1285.2	1282.3	1278.4	1274.0	1269.9	1266.0	1264.4
10.5°	1281.1	1284.0	1285.4	1285.4	1283.5	1280.3	1276.5	1271.6	1267.3	1263.4	1261.4
11°	1279.1	1282.0	1283.7	1283.7	1281.5	1278.4	1274.0	1269.2	1264.6	1260.5	1258.5
11.5°	1276.9	1280.1	1281.8	1281.8	1279.6	1276.2	1271.6	1266.8	1261.9	1257.6	1255.6
12°	1274.8	1278.2	1279.9	1279.9	1277.4	1274.0	1269.2	1263.9	1259.0	1254.7	1252.5
12.5°	1272.6	1276.0	1277.7	1277.7	1275.5	1271.6	1266.8	1261.2	1255.9	1251.3	1249.1
13°	1269.9	1273.6	1275.5	1275.3	1273.1	1269.2	1264.1	1258.3	1252.7	1248.1	1245.9
13.5°	1267.3	1270.9	1273.1	1272.8	1270.6	1266.5	1261.4	1255.1	1249.6	1244.7	1242.3
14°	1264.6	1268.5	1270.6	1270.4	1268.0	1263.9	1258.5	1252.2	1246.2	1241.3	1238.7
14.5°	1261.9	1265.8	1268.2	1267.7	1265.6	1261.0	1255.4	1248.9	1242.8	1237.7	1235.0
15°	1259.0	1263.4	1265.6	1265.1	1262.7	1258.3	1252.2	1245.5	1239.2	1233.8	1231.4
15.5°	1255.9	1260.2	1262.7	1262.2	1259.8	1255.1	1249.1	1242.3	1235.5	1230.2	1227.3
16°	1252.7	1257.3	1259.8	1259.0	1256.6	1252.0	1245.7	1238.4	1231.7	1226.1	1223.2
16.5°	1249.6	1254.2	1256.6	1255.9	1253.7	1248.9	1242.3	1234.8	1227.8	1222.2	1219.1
17°	1245.9	1251.0	1253.5	1252.7	1250.5	1245.5	1238.7	1230.9	1223.9	1218.1	1214.7
17.5°	1242.6	1247.6	1250.3	1249.3	1247.2	1242.1	1234.8	1227.1	1219.5	1213.5	1210.3
18°	1238.9	1244.0	1246.7	1245.9	1243.8	1238.4	1231.2	1222.9	1215.4	1209.1	1205.7
18.5°	1235.3	1240.6	1243.3	1242.1	1240.1	1234.6	1227.3	1218.8	1211.1	1204.5	1201.1
19°	1231.2	1237.0	1239.4	1238.7	1236.3	1230.7	1223.2	1214.5	1206.5	1199.7	1196.3
19.5°	1227.3	1233.1	1235.8	1234.8	1232.4	1226.8	1219.1	1210.1	1201.9	1195.1	1191.4
20°	1223.2	1229.0	1231.9	1230.9	1228.5	1222.7	1214.7	1205.7	1197.3	1190.2	1186.4
20.5°	1219.1	1224.9	1227.8	1226.8	1224.4	1218.6	1210.3	1200.9	1192.2	1185.1	1181.3
21°	1214.5	1220.8	1223.4	1222.7	1220.0	1214.2	1205.5	1196.0	1187.3	1179.8	1175.9



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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°	1200.7	1207.2	1210.3	1209.1	1206.7	1200.4	1191.2	1181.3	1171.6	1163.6	1159.5
23°	1195.6	1202.6	1205.5	1204.5	1202.1	1195.6	1186.4	1175.7	1166.0	1158.3	1153.7
23.5°	1190.7	1197.7	1200.9	1199.7	1197.0	1190.7	1181.0	1170.6	1160.4	1152.2	1147.8
24°	1185.4	1192.7	1195.8	1194.8	1192.2	1185.6	1175.7	1165.0	1154.9	1146.6	1141.8
24.5°	1180.1	1187.6	1190.7	1189.5	1187.1	1180.3	1170.4	1159.5	1148.8	1140.3	1135.5
25°	1174.5	1182.2	1185.4	1184.2	1181.8	1174.7	1165.0	1153.7	1142.8	1134.3	1129.2
25.5°	1169.2	1176.9	1180.1	1178.9	1176.4	1169.4	1159.5	1147.6	1136.9	1128.2	1122.9
26°	1163.6	1171.3	1174.5	1173.5	1170.9	1163.8	1153.7	1141.8	1130.7	1121.7	1116.6
26.5°	1157.8	1165.8	1169.2	1168.0	1165.0	1158.3	1147.6	1135.7	1124.4	1115.1	1109.8
27°	1151.7	1160.0	1163.1	1162.1	1159.2	1152.4	1141.8	1129.4	1117.8	1108.6	1103.0
27.5°	1145.7	1153.9	1157.5	1156.1	1153.7	1146.4	1135.5	1123.1	1111.3	1101.8	1096.3
28°	1139.4	1147.8	1151.5	1150.0	1147.6	1140.3	1129.2	1116.4	1104.5	1095.0	1089.5
28.5°	1133.1	1141.6	1145.2	1144.0	1141.3	1134.0	1122.9	1109.8	1097.7	1087.8	1082.2
29°	1126.8	1135.5	1138.9	1137.7	1135.0	1127.5	1116.1	1103.0	1090.9	1081.0	1074.9
29.5°	1120.0	1129.2	1132.6	1131.4	1128.7	1121.2	1109.6	1096.3	1083.7	1073.5	1067.7
30°	1113.2	1122.4	1125.8	1124.8	1122.2	1114.4	1102.8	1089.2	1076.6	1066.2	1060.2
30.5°	1106.7	1115.6	1119.3	1118.1	1115.6	1107.9	1096.0	1082.2	1069.1	1058.7	1052.4
31°	1099.4	1108.9	1112.5	1111.3	1108.6	1100.9	1088.7	1074.9	1061.9	1051.2	1044.9
31.5°	1092.4	1101.8	1105.5	1104.2	1101.8	1093.8	1081.7	1067.4	1054.4	1043.5	1037.2
32°	1085.1	1094.6	1098.4	1097.2	1094.8	1086.8	1074.5	1060.2	1046.6	1035.7	1029.4
32.5°	1077.6	1087.3	1091.4	1090.0	1087.5	1079.5	1066.9	1052.4	1038.9	1027.7	1020.9
33°	1070.3	1080.0	1084.1	1082.7	1080.5	1072.3	1059.4	1044.9	1030.9	1019.7	1013.2
33.5°	1062.6	1072.5	1076.6	1075.4	1073.0	1064.8	1051.7	1036.9	1023.1	1011.2	1004.7
34°	1054.6	1064.8	1069.1	1067.7	1065.3	1057.3	1044.2	1028.9	1014.9	1003.0	996.5
34.5°	1046.8	1057.0	1061.4	1059.9	1057.5	1049.3	1036.2	1020.9	1006.6	994.8	987.7
35°	1038.9	1049.0	1053.6	1052.2	1050.0	1041.5	1028.2	1012.9	998.6	986.3	979.5
35.5°	1030.6	1041.0	1045.6	1044.2	1042.0	1033.5	1020.0	1004.5	990.2	977.6	970.8
36°	1022.4	1033.0	1037.4	1036.4	1034.2	1025.5	1012.0	996.0	981.4	969.1	962.1
36.5°	1013.9	1024.6	1029.2	1028.2	1025.8	1017.3	1003.7	987.7	973.0	960.4	953.4
37°	1005.4	1016.1	1020.9	1020.0	1017.8	1009.1	995.3	979.5	964.0	951.4	944.6
37.5°	996.9	1007.6	1012.7	1011.5	1009.3	1000.3	986.8	970.5	955.3	942.7	935.4
38°	988.0	998.9	1004.0	1003.0	1000.8	992.1	978.1	961.8	946.6	933.5	926.5
38.5°	979.3	990.2	995.3	994.5	992.1	983.4	969.3	953.1	937.6	924.5	917.3
39°	970.3	981.2	986.5	985.6	983.6	974.7	960.6	944.1	928.6	915.3	908.3
39.5°	961.1	972.2	977.6	976.8	974.9	965.7	951.4	935.2	919.4	906.1	899.1
40°	951.9	963.0	968.9	967.9	965.9	957.0	942.5	925.7	910.2	896.9	889.6
40.5°	942.7	953.8	959.4	958.9	957.0	947.8	933.2	916.5	901.0	887.2	880.4
41°	933.0	944.4	950.2	949.7	947.5	938.6	924.0	907.3	891.6	878.0	870.8
41.5°	923.3	934.9	940.8	940.5	938.6	929.4	914.8	898.1	882.4	868.6	861.3
42°	913.9	925.5	931.6	931.3	929.4	919.9	905.4	888.9	872.7	858.9	851.6
42.5°	904.2	915.8	922.1	921.9	919.9	910.5	895.9	879.2	863.0	849.4	842.2
43°	894.5	905.9	912.4	912.4	910.7	901.0	886.5	869.8	853.6	839.5	832.5
43.5°	884.6	896.2	902.7	903.0	901.0	891.3	876.8	860.1	843.9	829.8	822.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	854.0	865.7	872.9	873.4	871.5	861.8	847.5	831.0	814.3	800.0	793.2
45.5°	843.4	855.3	862.5	863.5	861.6	851.6	837.3	820.6	804.4	790.1	783.3
46°	833.0	845.1	852.3	853.3	851.4	841.4	827.4	810.7	794.2	779.9	773.1
46.5°	822.3	833.9	841.9	842.9	841.2	831.3	817.0	800.5	783.8	769.8	763.0
47°	811.2	823.3	831.3	832.5	831.0	820.6	806.3	789.9	773.4	759.3	752.3
47.5°	800.0	812.1	820.4	821.8	820.6	810.0	795.7	779.2	763.0	748.4	741.7
48°	788.9	800.8	809.5	810.9	809.5	799.3	785.7	768.8	752.3	737.8	731.0
48.5°	777.0	789.1	797.8	799.8	798.8	788.6	774.1	757.9	741.2	726.9	719.9
49°	765.4	777.7	786.5	788.9	787.7	777.0	763.0	746.5	729.5	715.3	708.2
49.5°	753.0	765.6	774.6	777.0	776.3	765.6	751.3	734.9	718.2	703.6	696.4
50°	740.2	753.0	762.5	765.2	764.4	754.0	740.0	723.2	706.1	691.5	684.0
50.5°	727.1	739.7	749.9	752.3	752.1	742.1	727.6	710.7	693.7	678.7	671.4
51°	714.3	726.9	736.8	740.0	739.7	729.1	714.5	697.8	680.6	665.8	658.6
51.5°	700.2	713.1	723.2	726.6	727.1	716.2	701.7	684.7	668.0	653.5	645.7
52°	686.4	699.8	709.9	713.3	713.6	702.9	688.4	671.2	654.2	639.9	632.2
52.5°	672.6	685.5	696.1	699.3	700.0	689.1	674.6	657.6	641.1	626.6	619.1
53°	658.8	671.4	682.1	685.9	686.2	675.5	660.8	644.0	627.8	613.5	606.3
53.5°	645.3	657.4	668.3	671.9	672.6	662.2	647.2	631.2	615.2	601.4	594.4
54°	632.2	644.5	654.9	659.1	659.3	648.6	634.4	618.4	603.1	589.1	581.8
54.5°	618.6	631.2	641.6	645.7	646.0	636.1	621.5	605.0	589.8	575.7	568.7
55°	603.1	615.5	626.6	631.0	632.4	621.8	607.2	590.5	574.8	561.0	553.9
55.5°	585.9	598.3	610.1	614.5	616.7	606.3	591.0	574.0	556.8	542.6	536.3
56°	565.8	579.9	590.8	595.4	599.0	588.8	572.6	554.2	536.7	522.9	516.2
56.5°	544.5	559.0	570.2	575.3	579.4	569.4	553.0	533.6	516.2	501.4	494.6
57°	521.7	536.0	548.4	553.7	558.5	547.6	531.2	512.0	493.9	479.1	471.8
57.5°	497.7	511.3	525.6	531.9	536.7	525.1	508.6	489.8	471.3	456.8	448.6
58°	472.8	486.6	502.1	509.6	514.5	501.4	484.4	466.0	448.3	433.3	425.1
58.5°	448.3	461.7	477.6	486.6	491.7	477.9	460.7	442.8	425.3	410.8	401.6
59°	422.4	437.0	453.4	463.1	467.5	452.2	435.5	418.1	401.3	387.1	377.4
59.5°	397.5	411.5	428.5	438.4	443.0	427.5	410.3	393.4	377.6	363.6	353.9
60°	371.8	387.1	403.5	414.2	418.5	402.6	385.1	368.2	354.1	340.6	331.1
60.5°	347.6	362.6	378.3	389.0	394.1	378.6	359.9	344.2	330.6	317.3	308.1
61°	323.1	338.6	353.1	363.8	368.6	354.1	335.5	319.2	306.9	295.0	285.8
61.5°	299.4	315.4	328.9	338.1	344.4	331.1	311.5	295.5	283.9	273.2	263.8
62°	276.4	291.6	305.2	313.2	320.4	306.9	288.2	272.0	261.3	251.9	242.9
62.5°	254.1	269.1	281.7	288.0	295.7	283.6	265.0	249.0	240.5	232.0	223.6
63°	232.5	246.8	258.7	264.0	272.2	260.9	244.6	228.4	219.7	212.2	203.9
63.5°	211.5	225.3	235.4	239.5	249.5	240.0	224.0	207.6	198.9	192.1	184.3
64°	191.1	203.9	213.6	216.8	227.9	219.0	203.5	186.7	178.0	172.2	164.9
64.5°	172.0	184.1	192.3	194.7	206.4	198.1	182.9	166.2	157.4	152.1	147.5
65°	154.3	164.7	171.7	173.9	184.6	177.1	162.5	148.0	139.3	134.7	131.5
65.5°	136.4	146.1	152.4	154.5	163.0	156.2	144.1	131.3	122.8	118.2	116.7
66°	118.2	128.1	133.5	135.6	143.1	137.1	127.4	116.0	107.1	103.2	102.9



TEST NUMBER: P776145

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	77.5	82.6	86.0	87.9	92.3	89.6	84.0	77.3	67.6	67.8	69.3
68°	68.5	73.1	77.0	78.7	78.7	76.3	71.9	67.3	58.4	59.6	60.8
68.5°	59.6	63.9	68.3	69.5	67.1	64.7	62.0	58.6	51.1	53.3	53.8
69°	50.9	54.7	59.6	60.6	57.4	55.2	54.0	51.3	45.8	48.0	48.0
69.5°	41.9	45.5	50.9	51.3	49.7	48.2	47.2	45.5	42.1	43.6	43.4
70°	39.7	41.2	42.1	42.1	43.8	43.1	42.4	41.4	40.0	40.2	40.4
70.5°	37.8	38.5	39.2	39.2	40.2	40.0	39.7	39.0	38.0	38.3	38.3
71°	35.6	36.6	37.3	37.3	38.0	38.0	37.8	37.1	36.1	36.3	36.6
71.5°	33.7	34.9	35.6	35.6	36.3	36.1	35.8	35.1	33.9	34.4	34.6
72°	31.7	32.9	33.7	33.7	34.4	34.4	34.2	33.4	32.2	32.7	32.9
72.5°	30.0	31.0	32.0	32.0	32.7	32.5	32.2	31.5	30.3	30.8	31.2
73°	28.1	29.3	30.0	30.3	31.0	30.8	30.5	29.8	28.6	29.1	29.5
73.5°	26.4	27.6	28.3	28.6	29.3	29.1	28.8	28.1	26.9	27.4	27.9
74°	24.9	25.9	26.9	26.9	27.6	27.4	27.4	26.4	25.2	25.7	26.2
74.5°	23.3	24.2	25.2	25.2	25.9	25.9	25.7	24.7	23.5	24.2	24.7
75°	21.8	22.8	23.7	23.7	24.5	24.2	24.2	23.3	22.0	22.5	23.3
75.5°	20.3	21.3	22.3	22.3	23.0	22.8	22.8	21.8	20.8	21.1	21.8
76°	18.9	19.9	20.8	20.8	21.6	21.6	21.3	20.3	19.4	19.9	20.6
76.5°	17.7	18.4	19.4	19.6	20.3	20.1	20.1	19.1	18.2	18.7	19.1
77°	16.5	17.2	18.2	18.4	18.9	18.9	18.7	17.9	16.7	17.2	17.9
77.5°	15.3	16.0	17.0	17.2	17.7	17.7	17.4	16.5	15.5	16.0	16.7
78°	14.0	14.8	15.7	16.0	16.5	16.5	16.2	15.3	14.3	14.8	15.3
78.5°	13.1	13.8	14.5	14.8	15.3	15.3	15.0	14.0	13.1	13.6	14.3
79°	12.1	12.6	13.6	13.8	14.0	14.0	13.8	12.8	12.1	12.4	13.1
79.5°	10.9	11.6	12.6	12.6	13.1	13.1	12.8	11.9	11.1	11.4	12.1
80°	10.2	10.7	11.4	11.6	12.1	12.1	11.9	10.9	10.2	10.4	11.1
80.5°	9.2	9.7	10.4	10.7	11.1	11.1	10.9	9.9	9.2	9.4	10.2
81°	8.2	8.7	9.7	9.9	10.2	10.2	9.9	9.0	8.2	8.5	9.2
81.5°	7.5	8.0	8.7	9.0	9.2	9.2	9.0	8.2	7.5	7.8	8.2
82°	6.8	7.3	8.0	8.0	8.5	8.5	8.2	7.3	6.8	6.8	7.5
82.5°	5.8	6.3	7.0	7.3	7.5	7.5	7.3	6.5	5.8	6.1	6.8
83°	5.1	5.6	6.3	6.5	6.8	6.8	6.5	5.8	5.1	5.3	6.1
83.5°	4.6	4.8	5.6	5.8	6.1	6.1	5.8	5.1	4.6	4.6	5.3
84°	3.9	4.1	4.8	5.1	5.3	5.3	5.1	4.4	3.9	4.1	4.6
84.5°	3.4	3.6	4.1	4.4	4.6	4.6	4.4	3.6	3.4	3.4	3.9
85°	2.9	3.1	3.6	3.9	4.1	4.1	3.9	3.1	2.9	2.9	3.4
85.5°	2.2	2.4	3.1	3.4	3.4	3.4	3.1	2.4	2.4	2.2	2.9
86°	1.9	1.9	2.7	2.7	2.9	2.9	2.7	1.9	1.9	1.7	2.4
86.5°	1.5	1.5	2.2	2.2	2.4	2.4	2.2	1.7	1.5	1.5	1.9
87°	1.0	1.2	1.7	1.9	1.9	1.9	1.7	1.2	1.0	1.0	1.5
87.5°	0.7	1.0	1.2	1.5	1.5	1.5	1.5	1.0	0.7	0.7	1.2
88°	0.5	0.7	1.0	1.0	1.2	1.2	1.0	0.7	0.5	0.5	0.7
88.5°	0.2	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.2	0.2	0.5



TEST NUMBER: P776145
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776145

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1297.3	1297.3	1297.3	1297.3	1297.3	1297.3
0.5°	1296.8	1295.8	1296.3	1297.1	1297.8	1298.0
1°	1296.1	1295.1	1295.8	1296.8	1297.8	1298.0
1.5°	1295.4	1294.4	1295.1	1296.6	1297.8	1298.3
2°	1294.4	1293.7	1294.4	1296.1	1297.5	1298.0
2.5°	1293.4	1292.7	1293.7	1295.4	1297.1	1297.8
3°	1292.2	1291.5	1292.7	1294.6	1296.6	1297.8
3.5°	1291.0	1290.3	1291.7	1293.9	1296.1	1297.3
4°	1289.5	1289.1	1290.5	1292.9	1295.4	1297.1
4.5°	1288.1	1287.6	1289.3	1292.0	1294.6	1296.3
5°	1286.6	1285.9	1288.1	1290.8	1293.7	1295.8
5.5°	1284.7	1284.5	1286.6	1289.5	1292.7	1295.1
6°	1283.0	1282.8	1284.9	1288.3	1291.5	1294.1
6.5°	1281.3	1280.8	1283.2	1286.6	1290.3	1293.2
7°	1279.1	1278.9	1281.8	1285.2	1289.1	1292.0
7.5°	1277.2	1276.7	1279.9	1283.5	1287.6	1290.8
8°	1274.8	1274.5	1277.7	1281.5	1286.2	1289.5
8.5°	1272.6	1272.1	1275.5	1279.9	1284.2	1287.8
9°	1270.2	1269.7	1273.1	1277.7	1282.5	1286.4
9.5°	1267.5	1267.3	1270.9	1275.5	1280.6	1284.7
10°	1264.8	1264.6	1268.5	1273.3	1278.6	1283.0
10.5°	1261.9	1261.9	1265.8	1270.9	1276.5	1281.1
11°	1259.3	1259.0	1263.1	1268.5	1274.3	1279.1
11.5°	1256.1	1256.1	1260.2	1265.8	1272.1	1276.9
12°	1253.0	1253.0	1257.3	1263.1	1269.4	1274.8
12.5°	1249.8	1249.8	1254.4	1260.2	1267.0	1272.6
13°	1246.4	1246.4	1251.3	1257.3	1264.4	1269.9
13.5°	1242.8	1243.0	1247.9	1254.2	1261.4	1267.3
14°	1239.2	1239.2	1244.5	1251.0	1258.5	1264.6
14.5°	1235.5	1235.5	1241.1	1247.9	1255.4	1261.9
15°	1231.9	1231.9	1237.5	1244.5	1252.2	1259.0
15.5°	1227.8	1228.0	1233.3	1240.9	1249.1	1255.9
16°	1223.7	1223.9	1229.5	1237.2	1245.7	1252.7
16.5°	1219.5	1219.8	1225.6	1233.3	1242.1	1249.6
17°	1215.4	1215.7	1221.5	1229.5	1238.4	1245.9
17.5°	1210.6	1211.1	1217.4	1225.6	1234.8	1242.6
18°	1206.2	1206.7	1212.8	1221.5	1230.7	1238.9
18.5°	1201.6	1201.9	1208.4	1217.1	1226.8	1235.3
19°	1196.8	1197.3	1203.8	1212.8	1222.7	1231.2
19.5°	1191.9	1192.2	1199.0	1208.4	1218.6	1227.3
20°	1186.8	1187.3	1194.1	1203.8	1214.0	1223.2
20.5°	1181.5	1182.0	1189.3	1199.0	1209.6	1219.1
21°	1176.2	1176.7	1183.9	1194.1	1205.0	1214.5



TEST NUMBER: P776145

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1159.5	1160.2	1168.2	1178.6	1190.5	1200.7
23°	1153.9	1154.4	1162.4	1173.3	1185.4	1195.6
23.5°	1147.8	1148.6	1156.8	1168.0	1180.1	1190.7
24°	1141.8	1142.5	1151.0	1162.1	1174.7	1185.4
24.5°	1135.7	1136.5	1144.7	1156.6	1169.2	1180.1
25°	1129.4	1130.2	1138.6	1150.5	1163.6	1174.5
25.5°	1122.9	1123.9	1132.6	1144.7	1157.8	1169.2
26°	1116.6	1117.3	1126.3	1138.4	1152.0	1163.6
26.5°	1109.8	1110.8	1120.0	1132.3	1145.7	1157.8
27°	1103.0	1104.0	1113.2	1125.8	1139.6	1151.7
27.5°	1096.3	1097.0	1106.4	1119.3	1133.3	1145.7
28°	1089.2	1090.0	1099.6	1112.7	1127.0	1139.4
28.5°	1082.0	1082.9	1092.9	1105.9	1120.5	1133.1
29°	1074.7	1075.7	1085.4	1099.2	1113.7	1126.8
29.5°	1067.2	1068.4	1078.3	1092.1	1106.9	1120.0
30°	1059.4	1060.7	1071.1	1084.9	1100.1	1113.2
30.5°	1051.9	1053.1	1063.3	1077.6	1092.9	1106.7
31°	1044.4	1045.4	1056.0	1070.3	1085.6	1099.4
31.5°	1036.4	1037.6	1048.3	1062.8	1078.3	1092.4
32°	1028.4	1029.4	1040.3	1055.3	1071.1	1085.1
32.5°	1020.2	1021.4	1032.3	1047.3	1063.6	1077.6
33°	1012.2	1013.4	1024.6	1039.6	1056.0	1070.3
33.5°	1004.0	1004.9	1016.1	1031.8	1048.1	1062.6
34°	995.5	996.5	1007.8	1023.6	1040.1	1054.6
34.5°	986.8	988.2	999.6	1015.4	1032.1	1046.8
35°	978.3	979.3	991.1	1007.1	1023.8	1038.9
35.5°	969.8	971.0	982.4	998.6	1015.6	1030.6
36°	961.1	962.1	973.9	990.2	1007.1	1022.4
36.5°	952.1	953.6	965.2	981.7	998.9	1013.9
37°	943.4	944.6	956.3	973.0	990.2	1005.4
37.5°	934.2	935.4	947.3	964.0	981.4	996.9
38°	925.3	926.2	938.1	955.0	972.5	988.0
38.5°	916.3	917.3	929.1	946.1	963.5	979.3
39°	906.8	908.1	919.9	937.1	954.6	970.3
39.5°	897.6	898.6	910.7	927.7	945.6	961.1
40°	888.4	889.4	901.3	918.5	936.4	951.9
40.5°	879.0	880.0	891.6	909.0	927.2	942.7
41°	869.8	870.5	882.4	899.6	917.5	933.0
41.5°	860.1	860.6	872.5	889.9	908.1	923.3
42°	850.7	851.4	863.0	880.7	898.6	913.9
42.5°	841.2	841.4	853.3	871.0	888.7	904.2
43°	831.3	832.0	843.9	861.1	879.0	894.5
43.5°	821.6	822.1	833.7	851.1	869.1	884.6



TEST NUMBER: P776145

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	792.3	792.5	803.7	821.1	839.0	854.0
45.5°	782.3	782.3	793.5	810.9	828.4	843.4
46°	772.2	771.9	783.1	800.5	818.0	833.0
46.5°	762.0	761.3	772.7	789.9	807.3	822.3
47°	751.6	751.1	761.8	779.0	796.4	811.2
47.5°	740.7	740.0	750.4	767.8	785.3	800.0
48°	729.8	728.8	739.2	756.4	773.6	788.9
48.5°	718.6	717.2	727.9	744.8	762.0	777.0
49°	707.0	705.6	716.0	732.7	750.4	765.4
49.5°	695.2	693.5	703.6	720.8	738.0	753.0
50°	682.8	680.6	691.0	707.7	725.4	740.2
50.5°	670.2	668.3	678.2	694.9	712.1	727.1
51°	657.4	655.2	665.4	682.1	699.0	714.3
51.5°	644.3	642.1	651.8	669.0	685.7	700.2
52°	630.7	629.0	639.0	655.4	671.9	686.4
52.5°	617.6	615.9	625.9	641.9	657.4	672.6
53°	605.0	603.6	613.3	629.0	644.5	658.8
53.5°	592.7	591.7	601.4	616.7	631.7	645.3
54°	580.8	579.6	589.1	604.6	619.1	632.2
54.5°	567.5	566.1	575.7	590.8	605.3	618.6
55°	553.2	550.6	561.0	576.0	590.5	603.1
55.5°	536.3	532.1	542.6	557.6	572.3	585.9
56°	515.7	511.8	522.5	537.2	552.2	565.8
56.5°	494.1	490.0	500.4	515.9	530.4	544.5
57°	471.8	467.0	477.6	493.1	508.4	521.7
57.5°	448.6	443.0	454.6	470.1	484.9	497.7
58°	425.1	418.8	431.1	446.9	461.2	472.8
58.5°	400.6	395.0	407.4	423.4	435.3	448.3
59°	376.2	370.6	383.4	398.7	411.3	422.4
59.5°	352.2	347.6	359.9	374.9	386.6	397.5
60°	328.2	324.1	336.7	350.7	361.1	371.8
60.5°	304.9	301.1	313.4	326.5	335.7	347.6
61°	281.7	278.1	290.2	302.3	311.7	323.1
61.5°	260.1	257.0	267.9	279.3	288.2	299.4
62°	240.5	235.2	246.6	255.8	264.3	276.4
62.5°	221.1	214.8	225.3	233.3	242.0	254.1
63°	201.8	195.2	204.4	211.5	219.7	232.5
63.5°	182.4	176.3	184.8	190.6	198.9	211.5
64°	163.0	158.2	165.2	170.5	178.3	191.1
64.5°	146.8	141.7	147.0	151.9	159.9	172.0
65°	131.5	125.7	129.8	133.9	141.9	154.3
65.5°	117.2	111.4	113.6	117.5	125.2	136.4
66°	103.7	97.9	98.3	102.5	110.0	118.2



TEST NUMBER: P776145

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	70.7	69.8	69.3	72.4	74.8	77.5
68°	61.8	61.8	61.5	63.9	66.1	68.5
68.5°	54.3	53.8	53.8	55.5	57.6	59.6
69°	48.2	45.8	46.0	47.0	48.9	50.9
69.5°	43.4	41.7	41.9	42.6	43.6	41.9
70°	40.2	39.2	39.5	40.0	40.2	39.7
70.5°	38.3	37.5	37.8	38.0	38.0	37.8
71°	36.6	35.6	35.8	36.3	36.3	35.6
71.5°	34.6	33.9	34.2	34.4	34.4	33.7
72°	32.9	32.0	32.2	32.7	32.5	31.7
72.5°	31.0	30.3	30.5	31.0	30.8	30.0
73°	29.3	28.6	28.8	29.1	28.8	28.1
73.5°	27.9	27.1	27.1	27.6	27.1	26.4
74°	26.2	25.4	25.7	25.9	25.7	24.9
74.5°	24.7	24.0	24.2	24.5	24.0	23.3
75°	23.3	22.5	22.8	22.8	22.5	21.8
75.5°	21.8	21.1	21.3	21.6	21.1	20.3
76°	20.6	19.9	19.9	20.1	19.6	18.9
76.5°	19.1	18.4	18.7	18.7	18.2	17.7
77°	17.9	17.2	17.4	17.4	17.0	16.5
77.5°	16.7	16.0	16.2	16.2	15.7	15.3
78°	15.5	15.0	15.0	15.3	14.5	14.0
78.5°	14.3	13.8	14.0	14.0	13.6	13.1
79°	13.3	12.8	12.8	13.1	12.4	12.1
79.5°	12.4	11.9	11.9	11.9	11.4	10.9
80°	11.4	10.9	10.9	10.9	10.4	10.2
80.5°	10.4	9.9	9.9	9.9	9.4	9.2
81°	9.4	9.2	9.2	9.2	8.7	8.2
81.5°	8.5	8.2	8.5	8.2	7.8	7.5
82°	7.8	7.5	7.5	7.5	7.0	6.8
82.5°	7.0	6.8	6.8	6.8	6.1	5.8
83°	6.3	5.8	6.1	5.8	5.3	5.1
83.5°	5.6	5.3	5.3	5.1	4.6	4.6
84°	4.8	4.6	4.6	4.6	4.1	3.9
84.5°	4.1	3.9	4.1	3.9	3.4	3.4
85°	3.6	3.4	3.4	3.4	2.9	2.9
85.5°	3.1	2.9	2.9	2.9	2.2	2.2
86°	2.4	2.4	2.4	2.4	1.9	1.9
86.5°	2.2	1.9	1.9	1.9	1.5	1.5
87°	1.7	1.5	1.5	1.5	1.2	1.0
87.5°	1.2	1.0	1.0	1.0	1.0	0.7
88°	0.7	0.7	0.7	0.7	0.5	0.5
88.5°	0.5	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P776145
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMW-2500lm-2700K

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
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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report





21.5°	1209.9	1216.4	1219.3	1218.3	1215.7	1209.6	1200.9	1191.2	1182.2	1174.5	1170.6
22°	1205.3	1212.0	1214.7	1214.0	1211.3	1205.0	1196.0	1186.4	1177.2	1169.4	1165.0



44°	874.4	886.3	892.8	893.0	891.1	881.7	867.1	850.7	833.9	819.9	813.1
44.5°	864.2	875.8	882.6	883.4	881.7	871.5	857.2	840.7	824.3	810.2	803.2



66.5°	101.5	112.1	116.3	118.4	125.0	119.9	111.4	101.5	92.3	89.6	90.6
67°	86.5	96.6	100.3	102.2	108.3	104.2	96.9	88.9	78.7	77.8	79.2



89°	0.0	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	1170.9	1171.6	1178.9	1189.3	1200.2	1209.9
22°	1165.3	1166.0	1173.5	1183.9	1195.3	1205.3



44°	811.9	812.4	824.0	841.4	859.1	874.4
44.5°	802.2	802.5	813.8	831.5	849.2	864.2



66.5°	91.6	86.0	85.0	89.1	96.6	101.5
67°	80.9	78.0	77.0	80.7	83.6	86.5

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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)