

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: P776043

Luminaire Tested: HCDJBS1525CSD-HCD61TRMB-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B038)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD61TRMB-2500lm-4000K
Description: 6 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

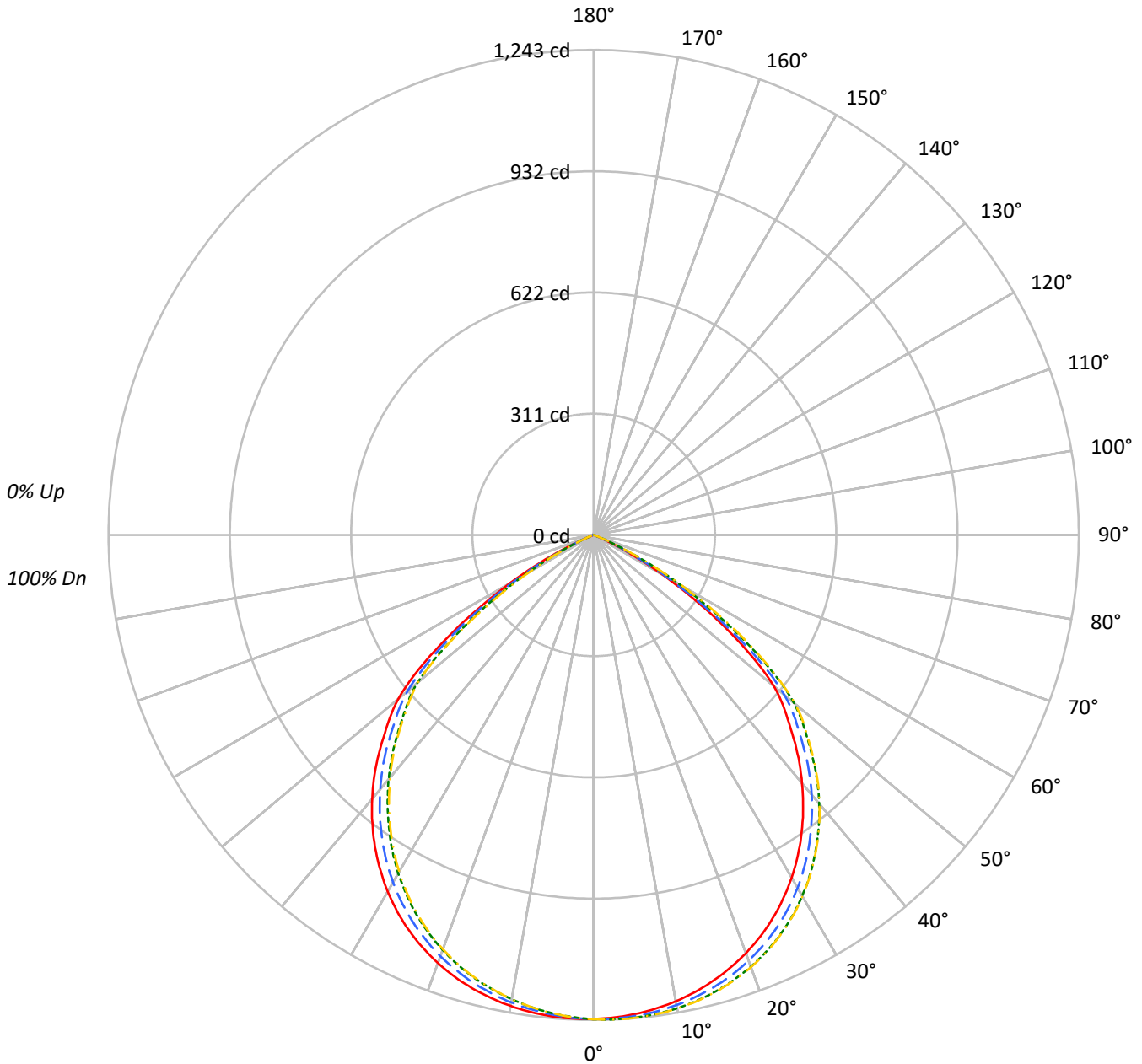
Lumens per Lamp: N/A
Luminaire Lumens: 2597.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79								
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43								
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	68043	68043	68043	68043
5°	67824	68330	68149	67697
10°	67545	68580	68241	67278
15°	67151	68723	68264	66760
20°	66547	68699	68104	66027
25°	65617	68381	67673	64939
30°	64206	67656	66801	63390
35°	62185	66334	65364	61228
40°	59447	64306	63197	58452
45°	55789	61192	59952	54742
50°	51418	57098	55691	50224
55°	38861	45035	43554	37667
60°	22531	28156	27070	22082
65°	6927	10689	9794	7485
70°	128	208	128	128
75°	64	106	64	64
80°	95	95	0	95
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 61409 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	4.5
10°-20°	336.7	13.0
20°-30°	507.2	19.5
30°-40°	594.9	22.9
40°-50°	576.1	22.2
50°-60°	383.3	14.8
60°-70°	80.9	3.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	961.4	37.0
0°-40°	1556.3	59.9
0°-60°	2515.7	96.9
0°-90°	2597.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1241	1241	1241	1241	1241	
5°	1232	1242	1238	1230	1232	117
15°	1183	1211	1203	1176	1183	334
25°	1085	1130	1119	1074	1085	499
35°	929	991	977	915	929	580
45°	720	789	773	706	720	555
55°	407	471	456	394	407	361
65°	53	82	76	58	53	68
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	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°	1241.2	1241.2	1241.2	1241.2	1241.2	1241.2	1241.2	1241.2	1241.2	1241.2	1241.2
0.5°	1240.4	1240.4	1241.2	1241.9	1241.7	1241.9	1241.9	1241.7	1240.9	1240.6	1240.9
1°	1239.9	1240.4	1241.2	1242.2	1242.2	1242.4	1242.4	1241.9	1241.2	1240.4	1240.4
1.5°	1239.4	1239.9	1241.2	1241.9	1242.4	1242.7	1242.7	1242.2	1241.2	1240.4	1240.1
2°	1238.6	1239.4	1240.9	1241.9	1242.7	1243.2	1243.2	1242.2	1241.2	1239.9	1239.6
2.5°	1237.9	1238.9	1240.4	1241.9	1242.7	1243.2	1243.2	1242.2	1240.9	1239.6	1238.9
3°	1236.8	1238.4	1240.1	1241.7	1242.7	1243.2	1243.2	1242.2	1240.6	1239.1	1238.1
3.5°	1236.1	1237.6	1239.6	1241.4	1242.4	1243.2	1243.2	1242.2	1240.1	1238.4	1237.1
4°	1234.8	1236.6	1239.1	1240.9	1242.4	1242.9	1242.9	1241.7	1239.6	1237.9	1236.3
4.5°	1233.8	1235.8	1238.4	1240.4	1241.9	1242.7	1242.7	1241.4	1239.1	1237.1	1235.3
5°	1232.5	1234.8	1237.3	1239.9	1241.7	1242.4	1242.2	1240.9	1238.4	1236.1	1234.0
5.5°	1231.2	1233.5	1236.6	1239.4	1241.2	1241.9	1241.7	1240.1	1237.6	1235.1	1232.8
6°	1229.5	1232.3	1235.8	1238.6	1240.4	1241.4	1241.2	1239.4	1236.8	1233.8	1231.2
6.5°	1227.9	1231.0	1234.5	1237.6	1239.9	1240.6	1240.4	1238.6	1235.8	1232.8	1229.7
7°	1226.2	1229.5	1233.3	1236.6	1238.9	1239.9	1239.6	1237.6	1234.8	1231.2	1228.2
7.5°	1224.4	1227.9	1232.0	1235.6	1238.1	1239.1	1238.9	1236.6	1233.3	1230.0	1226.7
8°	1222.6	1226.4	1230.5	1234.3	1237.1	1238.1	1237.9	1235.6	1232.3	1228.4	1224.9
8.5°	1220.3	1224.6	1229.0	1233.0	1235.8	1237.1	1236.8	1234.3	1230.7	1226.7	1222.8
9°	1218.3	1222.6	1227.2	1231.5	1234.8	1235.8	1235.6	1233.0	1229.2	1225.1	1221.1
9.5°	1216.0	1220.6	1225.4	1230.0	1233.3	1234.5	1234.3	1231.5	1227.7	1223.1	1218.8
10°	1213.4	1218.5	1223.6	1228.2	1232.0	1233.0	1232.8	1230.2	1225.9	1221.1	1216.7
10.5°	1211.2	1216.2	1221.6	1226.4	1230.2	1231.5	1231.2	1228.4	1224.1	1219.0	1214.5
11°	1208.4	1213.9	1219.5	1224.6	1228.7	1230.0	1229.5	1226.7	1222.3	1217.0	1211.9
11.5°	1205.8	1211.4	1217.3	1222.3	1226.9	1228.2	1227.7	1224.6	1220.1	1214.7	1209.6
12°	1202.8	1208.9	1215.0	1220.3	1224.9	1226.4	1225.9	1222.8	1218.0	1212.4	1206.8
12.5°	1200.0	1206.1	1212.4	1218.0	1222.8	1224.4	1223.9	1220.8	1216.0	1209.9	1204.3
13°	1196.7	1203.3	1209.9	1215.7	1220.6	1222.3	1221.6	1218.5	1213.4	1207.3	1201.2
13.5°	1193.6	1200.2	1207.3	1213.2	1218.5	1220.1	1219.5	1216.2	1210.9	1204.5	1198.2
14°	1190.3	1197.2	1204.3	1210.6	1216.0	1217.8	1217.0	1213.7	1208.4	1201.7	1195.1
14.5°	1186.7	1194.1	1201.5	1208.1	1213.4	1215.2	1214.5	1211.2	1205.6	1198.7	1192.1
15°	1183.2	1190.6	1198.4	1205.0	1210.9	1212.7	1211.9	1208.4	1202.8	1195.6	1188.8
15.5°	1179.4	1187.2	1195.4	1202.3	1208.1	1209.9	1209.4	1205.8	1199.7	1192.6	1185.5
16°	1175.8	1183.7	1192.1	1199.2	1205.3	1207.1	1206.3	1202.8	1196.7	1189.3	1181.7
16.5°	1171.7	1179.9	1188.5	1196.1	1202.3	1204.0	1203.3	1199.7	1193.6	1185.7	1177.8
17°	1167.7	1176.1	1185.0	1192.6	1199.2	1201.0	1200.2	1196.4	1190.3	1182.2	1174.0
17.5°	1163.6	1172.2	1181.4	1189.0	1195.9	1197.9	1197.2	1193.4	1186.7	1178.3	1170.0
18°	1159.3	1168.4	1177.6	1185.5	1192.3	1194.4	1193.6	1189.5	1183.2	1174.5	1165.9
18.5°	1154.7	1164.1	1173.8	1181.9	1189.0	1190.8	1190.0	1186.0	1179.4	1170.7	1161.8
19°	1150.1	1159.5	1169.4	1178.1	1185.2	1187.2	1186.5	1182.2	1175.6	1166.7	1157.5
19.5°	1145.5	1155.2	1165.4	1174.0	1181.7	1183.7	1182.7	1178.3	1171.5	1162.6	1153.2
20°	1140.7	1150.9	1161.1	1170.0	1177.6	1179.6	1178.9	1174.5	1167.4	1158.3	1148.9
20.5°	1135.6	1146.1	1156.5	1165.9	1173.5	1175.6	1174.8	1170.2	1163.3	1153.7	1143.8
21°	1130.8	1141.0	1152.2	1161.6	1169.2	1171.5	1170.5	1166.1	1159.0	1149.1	1139.2



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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°	1114.5	1126.0	1137.4	1147.3	1156.0	1158.0	1157.0	1152.4	1144.8	1134.6	1123.7
23°	1108.9	1120.6	1132.3	1142.5	1151.1	1153.4	1152.2	1147.6	1140.0	1129.3	1118.1
23.5°	1103.1	1115.0	1127.2	1137.4	1146.3	1148.6	1147.6	1142.7	1135.1	1123.9	1112.7
24°	1097.2	1109.4	1121.6	1132.3	1141.2	1143.5	1142.2	1137.4	1129.8	1118.6	1107.2
24.5°	1090.9	1103.3	1116.1	1126.7	1136.1	1138.4	1137.2	1132.3	1124.4	1113.0	1101.3
25°	1084.8	1097.2	1110.2	1121.1	1130.5	1132.8	1131.6	1127.0	1118.8	1107.4	1095.2
25.5°	1078.4	1091.4	1104.4	1115.5	1125.2	1127.5	1126.2	1121.4	1113.3	1101.3	1089.1
26°	1072.1	1085.0	1098.5	1109.7	1119.6	1121.6	1120.6	1115.5	1107.4	1095.2	1083.0
26.5°	1065.2	1078.7	1092.1	1103.8	1113.8	1116.1	1114.8	1109.7	1101.6	1089.1	1076.4
27°	1058.6	1072.1	1085.8	1097.7	1107.7	1110.2	1108.7	1103.8	1095.2	1082.7	1070.0
27.5°	1051.5	1065.2	1079.2	1091.4	1101.8	1104.1	1102.8	1097.7	1089.1	1076.4	1063.4
28°	1044.3	1058.3	1072.6	1084.8	1095.5	1097.5	1096.5	1091.4	1082.5	1069.5	1056.5
28.5°	1037.0	1051.5	1066.0	1078.4	1088.8	1091.4	1090.1	1085.0	1075.9	1062.9	1049.7
29°	1029.6	1044.1	1058.8	1071.8	1082.2	1084.5	1083.5	1078.4	1069.5	1056.0	1042.6
29.5°	1022.2	1037.0	1051.7	1064.9	1075.9	1077.9	1076.6	1071.6	1062.4	1049.2	1035.2
30°	1014.3	1029.3	1044.6	1057.8	1068.8	1071.0	1069.8	1064.7	1055.3	1041.5	1027.8
30.5°	1006.5	1022.0	1037.2	1050.4	1061.6	1063.9	1062.9	1057.8	1048.2	1034.2	1020.4
31°	998.6	1014.1	1029.6	1043.1	1054.5	1056.5	1055.5	1050.4	1040.8	1026.8	1012.6
31.5°	990.2	1006.2	1022.0	1035.7	1047.1	1049.2	1047.9	1043.1	1033.2	1019.2	1004.9
32°	982.0	998.1	1014.1	1028.3	1039.5	1041.8	1040.5	1035.4	1025.5	1011.3	996.8
32.5°	973.4	989.9	1005.9	1020.2	1031.9	1033.9	1033.2	1028.1	1017.9	1003.4	988.7
33°	965.0	981.5	998.1	1012.3	1024.3	1026.3	1025.3	1019.9	1010.0	995.3	980.5
33.5°	956.4	973.1	989.7	1004.2	1016.1	1018.2	1017.1	1011.8	1001.9	987.1	972.1
34°	947.5	964.5	981.3	996.0	1008.0	1010.3	1009.0	1003.9	993.5	978.7	963.5
34.5°	938.3	955.9	972.6	987.4	999.6	1001.9	1000.9	995.5	985.1	970.1	954.8
35°	929.2	947.0	963.7	979.0	991.2	993.2	992.2	987.1	976.7	961.2	945.9
35.5°	920.0	937.8	955.1	970.1	982.6	984.8	983.6	978.5	967.8	952.5	937.0
36°	910.3	928.4	945.9	961.4	973.9	975.9	974.9	969.8	958.9	943.9	927.9
36.5°	901.2	919.2	936.8	952.3	965.0	967.3	966.3	960.9	950.0	934.7	918.7
37°	891.3	909.8	927.4	942.9	956.1	958.1	957.1	952.0	940.8	925.3	909.3
37.5°	881.3	900.2	918.0	933.7	946.7	949.0	947.7	942.9	931.4	916.2	900.2
38°	871.2	890.5	908.3	924.1	937.5	939.6	938.6	933.2	922.3	906.3	890.5
38.5°	861.5	880.6	898.9	914.4	928.1	930.2	929.4	923.8	912.6	897.1	880.6
39°	851.6	870.9	889.0	905.0	918.5	920.5	919.7	914.4	902.7	887.2	870.9
39.5°	841.2	860.7	878.8	894.8	908.6	910.8	909.8	904.5	893.0	877.3	860.7
40°	830.7	850.3	868.9	884.7	898.6	900.9	899.9	894.8	883.1	867.1	850.8
40.5°	820.3	840.2	858.5	874.5	888.5	891.0	890.0	884.4	873.0	857.2	840.7
41°	809.6	829.5	848.0	863.8	878.3	880.8	879.8	874.2	862.8	846.8	830.2
41.5°	798.7	818.8	837.4	853.6	867.6	870.4	869.6	863.8	852.1	836.3	819.8
42°	788.0	807.9	826.7	842.7	857.2	860.0	859.0	853.4	841.7	825.7	809.1
42.5°	777.1	797.4	815.7	831.8	846.5	849.3	848.5	842.4	830.7	815.2	798.5
43°	765.6	786.2	804.6	820.6	835.6	838.1	837.6	831.5	819.8	803.8	787.5
43.5°	754.5	774.5	793.4	809.1	824.1	827.2	826.4	820.3	808.6	792.6	776.3



TEST NUMBER: P776043

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	719.6	739.7	758.0	773.8	789.3	792.1	791.8	785.2	773.3	757.5	741.2
45.5°	707.9	727.8	746.3	761.8	777.3	780.7	780.1	773.3	761.3	745.6	729.3
46°	696.5	716.3	734.6	750.1	765.6	769.2	768.4	761.8	749.6	733.6	717.8
46.5°	685.3	705.1	723.2	738.7	754.2	758.3	757.5	750.4	737.7	722.2	706.1
47°	674.4	693.9	712.0	727.3	742.8	746.8	746.3	738.9	726.2	710.5	694.7
47.5°	663.4	683.0	700.8	716.1	731.6	735.6	735.1	727.8	715.0	699.3	683.8
48°	652.5	671.8	689.4	704.6	720.4	724.7	724.2	716.8	703.9	688.1	672.8
48.5°	641.8	660.6	678.4	693.4	709.2	714.3	713.3	705.6	692.4	677.2	661.9
49°	630.1	648.7	665.7	680.7	696.7	701.8	701.1	693.4	680.2	664.7	649.4
49.5°	617.4	636.0	652.5	667.0	683.5	688.3	687.6	680.0	666.7	651.2	636.5
50°	602.9	622.0	638.0	651.7	669.5	674.4	673.9	666.0	653.0	637.5	622.2
50.5°	586.9	604.7	622.0	636.2	654.0	658.3	657.1	650.2	637.7	621.5	606.2
51°	569.3	586.9	604.2	618.9	637.0	641.0	640.0	633.7	621.0	604.2	588.7
51.5°	550.5	568.1	585.1	600.6	618.9	622.7	622.2	615.1	603.4	586.4	570.1
52°	530.4	548.7	565.5	580.8	599.3	604.2	603.7	596.3	584.1	567.3	551.5
52.5°	510.9	528.9	545.2	559.2	579.3	585.4	584.9	576.7	563.5	547.5	532.2
53°	490.5	508.1	524.1	537.3	558.4	565.0	565.0	556.6	542.4	527.1	512.4
53.5°	469.9	487.2	502.7	515.2	536.8	545.2	545.4	535.5	520.5	506.3	492.0
54°	448.8	466.1	480.3	492.5	514.9	524.6	524.8	514.4	498.9	485.2	470.9
54.5°	428.0	445.0	458.0	469.9	492.8	503.5	504.0	492.5	476.8	462.8	450.3
55°	406.6	423.4	435.3	447.0	471.2	482.9	483.4	470.9	455.7	441.4	429.5
55.5°	385.2	401.3	412.7	424.4	449.1	460.5	461.8	448.6	433.6	419.1	407.9
56°	364.4	379.9	389.8	401.3	426.4	438.6	439.9	426.9	412.2	396.7	387.0
56.5°	343.5	358.3	367.2	379.9	404.3	416.5	417.8	404.8	389.8	374.8	365.7
57°	322.2	336.7	344.6	357.5	382.4	394.4	395.9	383.5	369.0	352.7	344.6
57.5°	301.8	315.1	322.7	335.7	360.8	372.0	373.8	361.8	347.4	331.6	323.4
58°	281.7	294.0	300.8	314.5	339.2	349.9	351.7	340.5	326.8	310.0	302.6
58.5°	262.2	272.8	279.2	293.7	318.1	328.0	329.8	319.6	306.4	289.4	282.3
59°	242.8	252.2	258.9	273.4	297.3	306.2	307.9	299.3	286.1	269.0	262.4
59.5°	223.5	231.4	238.8	253.3	276.9	285.1	285.8	278.7	265.7	249.5	243.1
60°	205.5	211.8	219.7	233.4	256.8	264.2	264.5	258.6	246.9	231.1	224.0
60.5°	187.2	192.5	200.4	214.1	238.0	244.4	244.9	239.5	228.1	212.8	205.0
61°	169.4	173.9	182.1	195.5	219.2	224.8	225.0	220.5	209.5	194.5	186.1
61.5°	152.1	156.1	164.8	177.7	200.4	205.0	205.2	201.4	190.7	176.2	167.1
62°	135.5	139.3	147.5	160.2	181.6	185.4	185.4	182.3	171.9	159.4	150.5
62.5°	119.8	123.3	131.5	143.4	162.7	165.8	165.5	163.2	154.6	142.9	134.0
63°	104.8	107.8	115.7	127.9	144.9	147.5	147.2	145.5	138.1	127.4	118.5
63.5°	90.0	93.6	101.2	112.4	128.2	130.4	130.2	128.7	122.3	112.4	104.0
64°	77.8	82.1	87.2	97.9	112.1	113.9	113.9	112.4	106.3	98.2	90.5
64.5°	65.6	70.9	76.0	85.2	96.9	98.4	98.2	96.6	90.8	84.9	77.6
65°	53.4	59.5	64.6	73.2	82.4	83.7	83.7	82.1	75.5	72.0	65.9
65.5°	41.4	48.3	53.1	61.0	68.4	70.2	70.2	68.1	61.0	60.0	54.9
66°	29.2	36.9	42.0	49.1	55.7	57.2	57.2	55.2	47.6	48.8	44.8



TEST NUMBER: P776043

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.4	15.8	18.3	20.1	29.0	30.0	30.0	28.5	21.4	25.7	23.6
68°	7.1	10.9	12.7	13.5	21.4	22.1	22.1	21.1	12.7	19.3	16.5
68.5°	5.1	8.9	7.9	8.4	13.7	14.2	14.2	13.5	4.1	12.7	9.7
69°	2.8	6.9	6.1	6.4	6.4	6.6	6.4	6.4	1.3	6.1	5.6
69.5°	0.8	4.8	4.3	4.6	3.1	3.1	3.1	3.1	0.8	3.1	2.8
70°	0.8	2.8	2.5	2.5	1.3	1.3	1.3	1.3	0.8	1.3	1.3
70.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
80.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
81°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776043

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-4000K

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: P776043

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1241.2	1241.2	1241.2	1241.2	1241.2	1241.2
0.5°	1240.9	1240.6	1240.6	1240.9	1240.6	1240.4
1°	1240.4	1239.9	1239.9	1240.1	1240.1	1239.9
1.5°	1239.9	1239.1	1238.9	1239.4	1239.4	1239.4
2°	1239.1	1238.1	1237.9	1238.4	1238.4	1238.6
2.5°	1238.4	1236.8	1236.8	1237.1	1237.3	1237.9
3°	1237.3	1235.8	1235.6	1236.1	1236.3	1236.8
3.5°	1236.3	1234.5	1234.3	1234.8	1235.3	1236.1
4°	1235.1	1233.3	1232.8	1233.3	1234.0	1234.8
4.5°	1233.8	1231.7	1231.2	1231.7	1232.5	1233.8
5°	1232.5	1230.2	1229.7	1230.2	1231.0	1232.5
5.5°	1231.0	1228.4	1227.9	1228.4	1229.5	1231.2
6°	1229.5	1226.7	1226.2	1226.7	1227.7	1229.5
6.5°	1227.7	1224.9	1224.1	1224.6	1226.2	1227.9
7°	1225.9	1222.8	1222.1	1222.8	1224.1	1226.2
7.5°	1224.1	1220.6	1220.1	1220.6	1222.1	1224.4
8°	1222.1	1218.5	1217.5	1218.3	1220.1	1222.6
8.5°	1219.8	1216.2	1215.2	1216.0	1217.8	1220.3
9°	1217.8	1213.7	1212.7	1213.4	1215.2	1218.3
9.5°	1215.2	1211.4	1210.4	1210.9	1212.9	1216.0
10°	1212.9	1208.6	1207.6	1208.4	1210.4	1213.4
10.5°	1210.4	1205.8	1204.8	1205.6	1207.6	1211.2
11°	1207.8	1203.0	1201.7	1202.8	1204.8	1208.4
11.5°	1205.0	1200.2	1198.7	1199.5	1202.0	1205.8
12°	1202.3	1196.9	1195.6	1196.4	1198.9	1202.8
12.5°	1199.2	1193.9	1192.3	1193.1	1195.9	1200.0
13°	1196.1	1190.6	1189.0	1189.8	1192.6	1196.7
13.5°	1192.8	1187.2	1185.5	1186.2	1189.0	1193.6
14°	1189.8	1183.7	1181.9	1182.7	1185.7	1190.3
14.5°	1186.2	1179.9	1178.3	1179.1	1181.9	1186.7
15°	1182.7	1176.3	1174.3	1175.3	1178.3	1183.2
15.5°	1179.1	1172.2	1170.2	1171.2	1174.3	1179.4
16°	1175.0	1168.4	1166.1	1167.2	1170.5	1175.8
16.5°	1171.5	1164.1	1162.1	1163.1	1166.4	1171.7
17°	1167.4	1159.8	1157.8	1158.5	1162.1	1167.7
17.5°	1163.1	1155.5	1153.2	1154.2	1157.8	1163.6
18°	1159.0	1150.9	1148.6	1149.6	1153.2	1159.3
18.5°	1154.4	1146.3	1143.8	1144.8	1148.6	1154.7
19°	1149.9	1141.7	1138.9	1140.0	1143.8	1150.1
19.5°	1145.3	1136.9	1133.8	1134.9	1139.2	1145.5
20°	1140.5	1131.8	1128.8	1129.8	1134.1	1140.7
20.5°	1135.6	1126.5	1123.4	1124.4	1128.8	1135.6
21°	1130.5	1121.1	1118.1	1118.8	1123.4	1130.8

TEST NUMBER: P776043

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1114.3	1104.4	1100.8	1101.8	1106.6	1114.5
23°	1108.9	1098.5	1094.7	1095.7	1100.8	1108.9
23.5°	1103.1	1092.7	1088.8	1089.6	1094.9	1103.1
24°	1097.2	1086.6	1082.5	1083.2	1088.6	1097.2
24.5°	1091.1	1079.9	1076.1	1076.9	1082.2	1090.9
25°	1085.0	1073.6	1069.5	1070.3	1075.9	1084.8
25.5°	1078.7	1067.2	1062.7	1063.7	1069.3	1078.4
26°	1072.3	1060.4	1055.8	1056.8	1062.7	1072.1
26.5°	1065.4	1053.2	1048.7	1049.7	1055.5	1065.2
27°	1058.6	1046.1	1041.8	1042.6	1048.7	1058.6
27.5°	1052.0	1039.3	1034.7	1035.2	1041.5	1051.5
28°	1044.9	1031.9	1027.1	1027.8	1034.2	1044.3
28.5°	1037.5	1024.3	1019.4	1020.2	1026.5	1037.0
29°	1030.4	1016.9	1011.8	1012.8	1019.2	1029.6
29.5°	1023.0	1009.0	1003.9	1004.7	1011.5	1022.2
30°	1015.1	1001.4	996.0	996.8	1003.4	1014.3
30.5°	1007.5	993.2	987.6	988.4	995.5	1006.5
31°	999.6	984.8	979.5	980.3	987.1	998.6
31.5°	991.5	976.7	970.9	971.6	978.7	990.2
32°	983.1	968.3	962.5	963.2	970.3	982.0
32.5°	974.9	959.7	953.8	954.3	962.0	973.4
33°	966.3	951.0	944.9	945.7	953.1	965.0
33.5°	957.9	942.4	936.0	937.0	944.2	956.4
34°	949.0	933.5	927.1	927.6	935.3	947.5
34.5°	940.3	924.1	917.7	918.5	926.1	938.3
35°	930.9	914.9	908.3	909.3	916.7	929.2
35.5°	922.0	905.5	899.1	899.9	907.3	920.0
36°	912.9	896.3	889.7	890.5	898.1	910.3
36.5°	903.7	886.7	880.3	880.8	888.7	901.2
37°	894.1	877.0	870.7	871.2	878.8	891.3
37.5°	884.4	867.4	860.5	861.5	869.1	881.3
38°	874.7	857.4	850.8	851.6	859.0	871.2
38.5°	864.6	847.5	840.9	841.7	849.1	861.5
39°	854.9	837.4	831.0	831.5	839.1	851.6
39.5°	844.7	827.4	820.8	821.6	829.0	841.2
40°	834.6	816.8	810.7	811.2	818.3	830.7
40.5°	824.4	806.6	800.2	801.0	807.9	820.3
41°	813.7	795.9	789.8	790.6	797.4	809.6
41.5°	803.3	785.2	778.9	779.9	786.8	798.7
42°	792.6	774.5	768.4	769.2	776.1	788.0
42.5°	781.9	763.6	757.8	758.3	765.1	777.1
43°	771.0	752.4	746.3	747.3	753.7	765.6
43.5°	759.5	741.0	735.1	735.9	742.3	754.5



TEST NUMBER: P776043

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	725.0	706.1	700.8	701.3	707.4	719.6
45.5°	713.3	694.7	689.1	689.9	695.7	707.9
46°	701.8	683.3	677.7	678.4	684.5	696.5
46.5°	690.1	672.3	666.7	667.2	673.3	685.3
47°	679.2	661.4	656.1	656.6	662.2	674.4
47.5°	668.3	650.5	645.1	645.9	651.2	663.4
48°	657.6	639.8	634.2	635.2	640.5	652.5
48.5°	646.6	628.8	623.5	624.0	629.6	641.8
49°	634.9	616.9	611.6	612.3	618.2	630.1
49.5°	622.2	603.9	599.1	599.9	605.4	617.4
50°	608.2	588.9	584.3	585.9	591.7	602.9
50.5°	591.7	572.1	568.1	569.8	575.2	586.9
51°	574.2	554.1	550.3	551.8	557.9	569.3
51.5°	555.6	535.8	531.5	532.7	539.6	550.5
52°	537.0	516.2	511.9	513.1	519.8	530.4
52.5°	517.5	496.4	492.0	492.8	499.2	510.9
53°	497.9	475.8	470.9	471.7	478.6	490.5
53.5°	477.5	455.7	449.8	450.8	457.7	469.9
54°	458.0	435.3	428.7	429.5	436.4	448.8
54.5°	437.1	414.7	408.1	408.4	415.5	428.0
55°	417.0	394.1	386.8	387.0	394.1	406.6
55.5°	395.9	374.3	365.9	365.4	373.0	385.2
56°	375.8	354.2	345.1	343.8	352.4	364.4
56.5°	355.0	334.4	324.7	323.2	332.1	343.5
57°	334.6	314.0	304.4	302.3	311.5	322.2
57.5°	314.5	294.7	284.3	282.3	291.4	301.8
58°	294.7	275.4	265.0	262.9	271.8	281.7
58.5°	274.9	256.6	245.9	243.3	252.0	262.2
59°	255.3	237.8	227.3	224.8	233.7	242.8
59.5°	236.7	219.2	209.5	206.7	215.4	223.5
60°	217.9	201.4	191.5	189.4	197.3	205.5
60.5°	199.4	183.8	174.7	172.7	180.0	187.2
61°	180.8	166.6	158.4	156.6	163.2	169.4
61.5°	163.8	150.5	143.2	141.4	147.0	152.1
62°	147.0	134.5	128.4	127.4	131.5	135.5
62.5°	130.7	119.0	114.4	113.4	116.5	119.8
63°	114.9	104.8	101.2	100.4	102.0	104.8
63.5°	100.2	91.0	88.2	87.7	88.5	90.0
64°	86.2	79.8	77.8	77.3	77.6	77.8
64.5°	73.2	68.7	67.4	67.1	66.6	65.6
65°	61.3	57.7	57.0	56.7	55.7	53.4
65.5°	50.3	46.5	46.5	46.5	44.8	41.4
66°	39.9	35.6	37.6	38.1	35.6	29.2



TEST NUMBER: P776043
 CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	20.9	14.7	16.8	17.3	15.0	9.4
68°	14.5	10.2	11.7	12.0	10.4	7.1
68.5°	8.4	7.9	7.4	7.6	7.9	5.1
69°	5.1	5.6	5.6	5.8	5.6	2.8
69.5°	2.5	3.1	4.1	4.1	3.1	0.8
70°	1.3	0.8	2.3	2.3	0.8	0.8
70.5°	0.8	0.8	0.8	0.8	0.8	0.8
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.3	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776043

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-4000K

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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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report





21.5°	1125.2	1136.1	1147.3	1157.0	1165.1	1167.2	1166.1	1161.8	1154.4	1144.3	1134.1
22°	1120.1	1131.1	1142.5	1152.4	1160.5	1162.8	1161.6	1157.0	1149.9	1139.4	1129.0



44°	742.8	762.9	781.2	797.7	812.4	815.5	815.0	808.6	796.7	781.2	764.6
44.5°	731.1	751.4	769.7	785.7	801.0	804.6	803.0	797.2	785.0	769.5	752.9



66.5°	21.1	28.7	33.1	37.1	44.2	45.8	45.8	43.5	38.9	38.9	37.6
67°	14.5	21.6	25.2	28.0	36.6	37.9	37.9	35.9	30.3	32.3	30.8



89°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	1125.2	1115.8	1112.5	1113.3	1118.1	1125.2
22°	1119.9	1110.2	1106.9	1107.7	1112.5	1120.1



44°	748.1	729.3	723.7	724.2	730.8	742.8
44.5°	736.7	717.8	712.2	712.8	719.1	731.1

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66.5°	33.6	27.2	30.0	30.0	27.7	21.1
67°	27.2	20.3	22.9	23.1	20.9	14.5

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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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Scaled Data Report



(END OF REPORT)