

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: P776194

Luminaire Tested: HCDJBS1525CSD-HCD8TRMB-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TRMB-2500lm-5000K
Description: 8 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1903.2 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

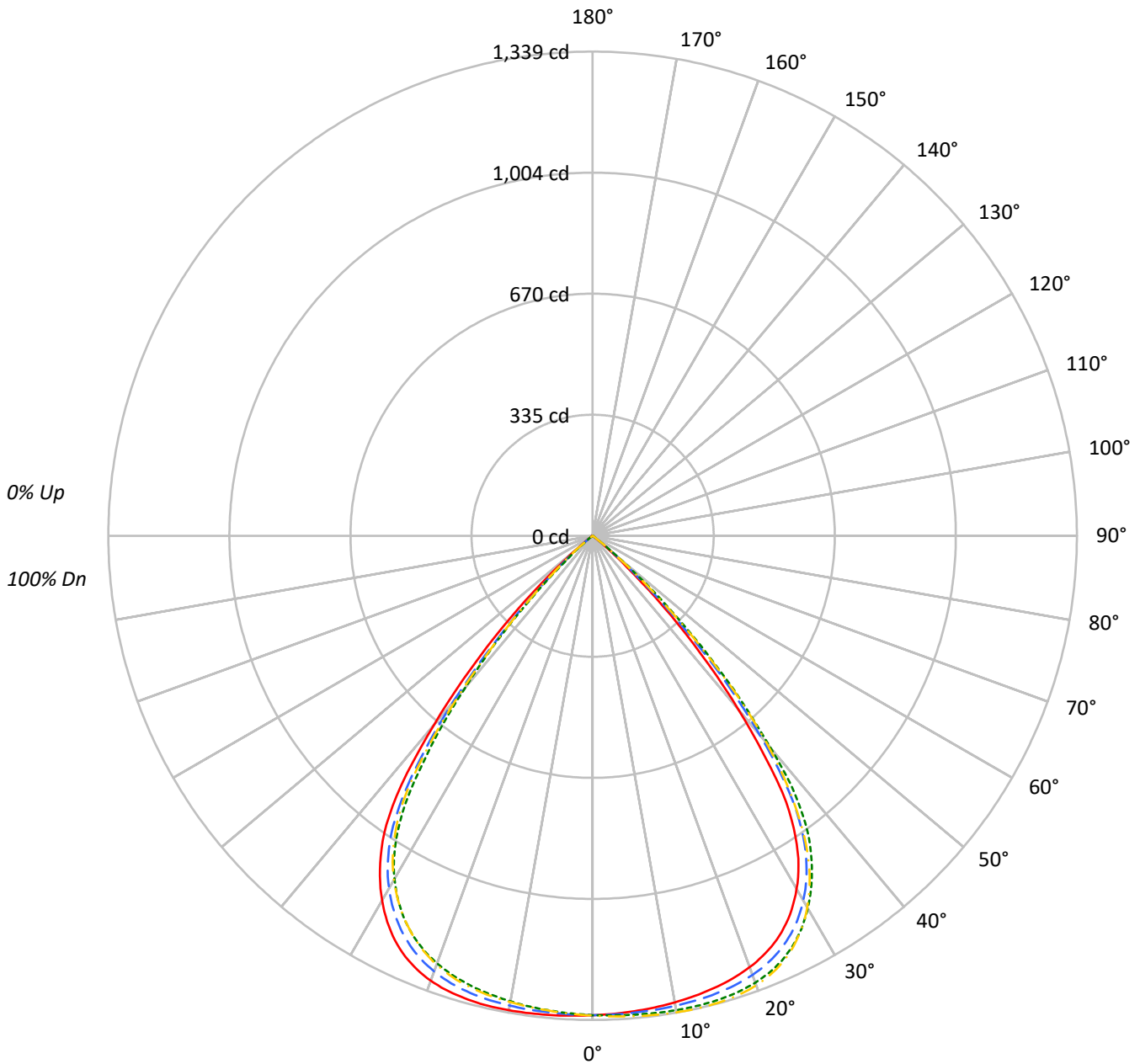
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					100			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93					93			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85					85			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78					78			
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65					65			
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60					60			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55					55			
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51					51			
9	71	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	48	47					47			
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	40483	40483	40483	40483
5°	40448	40748	40773	40408
10°	40621	41300	41306	40531
15°	40941	42025	41978	40761
20°	41252	42730	42535	40875
25°	41121	42930	42458	40417
30°	39766	41941	41042	38638
35°	35772	39119	37427	33551
40°	25037	30405	27153	21796
45°	11921	17003	13886	9002
50°	2427	4560	2589	1154
55°	112	165	96	69
60°	31	31	31	31
65°	22	22	22	22
70°	27	27	27	27
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 17003 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	6.6
10°-20°	370.8	19.5
20°-30°	567.9	29.8
30°-40°	591.0	31.1
40°-50°	238.6	12.5
50°-60°	8.2	0.4
60°-70°	0.3	0.0
70°-80°	0.0	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°	1065.1	56.0
0°-40°	1656.0	87.0
0°-60°	1902.8	100.0
0°-90°	1903.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1326	1326	1326	1326	1326	
5°	1320	1330	1330	1318	1320	126
15°	1295	1330	1328	1290	1295	366
25°	1221	1274	1260	1200	1221	560
35°	960	1050	1004	900	960	577
45°	276	394	322	208	276	222
55°	2	3	2	1	2	7
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
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°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
0.5°	1325.5	1325.0	1325.5	1325.7	1326.0	1327.3	1327.8	1327.8	1326.5	1325.7	1325.5
1°	1325.0	1325.0	1325.5	1326.0	1326.5	1328.1	1328.6	1328.3	1327.0	1326.0	1325.2
1.5°	1324.4	1324.4	1325.5	1326.3	1327.0	1328.6	1329.3	1329.1	1327.5	1326.0	1325.2
2°	1323.9	1324.2	1325.2	1326.5	1327.5	1329.1	1329.9	1329.6	1327.8	1326.3	1325.2
2.5°	1323.4	1323.7	1325.2	1326.8	1327.8	1329.6	1330.6	1330.1	1328.3	1326.5	1325.0
3°	1322.6	1323.4	1325.0	1326.8	1328.1	1330.4	1331.2	1330.9	1328.8	1326.8	1324.7
3.5°	1322.1	1322.9	1325.0	1326.8	1328.6	1330.6	1331.7	1331.4	1329.3	1326.8	1324.4
4°	1321.3	1322.4	1324.4	1327.0	1328.8	1331.2	1332.4	1331.9	1329.9	1326.8	1324.4
4.5°	1320.6	1321.9	1324.2	1327.0	1329.1	1331.9	1333.0	1332.4	1330.1	1327.0	1323.9
5°	1319.8	1321.3	1323.9	1327.0	1329.6	1332.4	1333.5	1333.2	1330.4	1327.0	1323.7
5.5°	1319.0	1320.6	1323.7	1327.3	1329.9	1333.0	1334.3	1333.7	1330.9	1327.0	1323.4
6°	1318.3	1320.1	1323.4	1327.3	1330.1	1333.5	1334.8	1334.0	1331.2	1327.3	1323.2
6.5°	1317.5	1319.3	1322.9	1327.3	1330.6	1334.0	1335.3	1334.5	1331.4	1327.3	1322.9
7°	1316.7	1318.5	1322.6	1327.3	1330.9	1334.3	1335.8	1335.0	1331.7	1327.0	1322.4
7.5°	1315.7	1317.7	1322.4	1327.5	1331.2	1334.8	1336.3	1335.5	1331.9	1327.0	1322.1
8°	1314.6	1317.0	1321.9	1327.3	1331.4	1335.3	1336.8	1335.8	1332.2	1327.3	1321.6
8.5°	1313.6	1315.9	1321.3	1327.5	1331.7	1335.5	1337.1	1336.3	1332.2	1327.0	1321.1
9°	1312.6	1315.2	1320.8	1327.3	1331.9	1335.8	1337.6	1336.6	1332.4	1326.8	1320.8
9.5°	1311.3	1314.1	1320.3	1327.3	1331.9	1336.1	1337.9	1336.8	1332.4	1326.8	1320.1
10°	1310.3	1313.1	1319.8	1327.0	1332.2	1336.3	1338.1	1337.1	1332.4	1326.5	1319.5
10.5°	1309.0	1312.1	1319.3	1327.0	1332.2	1336.6	1338.4	1337.1	1332.4	1326.3	1318.8
11°	1307.7	1311.0	1318.5	1326.8	1332.2	1336.8	1338.6	1337.3	1332.2	1325.7	1318.0
11.5°	1306.4	1309.7	1317.7	1326.5	1332.2	1336.8	1338.6	1337.3	1332.2	1325.2	1317.2
12°	1305.1	1308.4	1317.2	1326.3	1332.2	1336.8	1338.9	1337.3	1331.9	1324.7	1316.2
12.5°	1303.5	1307.4	1316.4	1326.0	1331.9	1336.8	1338.9	1337.1	1331.4	1324.2	1315.4
13°	1302.0	1305.9	1315.4	1325.5	1331.7	1336.8	1338.6	1337.1	1331.2	1323.4	1314.1
13.5°	1300.4	1304.6	1314.6	1325.0	1331.2	1336.8	1338.4	1336.8	1330.6	1322.4	1313.1
14°	1298.6	1303.3	1313.6	1324.4	1330.6	1336.3	1338.1	1336.6	1329.9	1321.6	1311.5
14.5°	1297.1	1301.7	1312.6	1323.7	1330.4	1336.1	1337.9	1336.1	1329.1	1320.6	1310.3
15°	1295.3	1300.2	1311.3	1322.9	1329.6	1335.5	1337.3	1335.5	1328.1	1319.3	1308.7
15.5°	1293.2	1298.6	1310.0	1321.9	1329.1	1335.0	1336.6	1334.8	1327.0	1318.0	1306.9
16°	1291.2	1296.8	1308.7	1320.8	1328.1	1334.3	1335.8	1333.7	1325.7	1316.4	1305.1
16.5°	1289.1	1295.0	1307.2	1319.8	1327.0	1333.2	1335.0	1332.7	1324.4	1314.6	1303.0
17°	1286.8	1293.0	1305.6	1318.3	1326.0	1332.2	1333.7	1331.2	1322.9	1312.8	1300.7
17.5°	1284.2	1290.9	1303.8	1316.7	1324.7	1330.9	1332.4	1329.9	1321.3	1310.8	1298.1
18°	1281.6	1288.8	1301.7	1314.9	1323.2	1329.3	1331.2	1328.1	1319.3	1308.4	1295.3
18.5°	1279.0	1286.2	1299.9	1313.1	1321.6	1327.5	1329.3	1326.0	1317.2	1305.9	1292.4
19°	1275.9	1283.9	1297.6	1311.0	1319.5	1325.5	1327.5	1323.9	1314.6	1303.0	1289.3
19.5°	1272.8	1281.1	1295.0	1308.4	1317.5	1323.4	1325.5	1321.3	1312.1	1299.9	1285.7
20°	1269.7	1278.2	1292.4	1305.9	1315.2	1321.1	1322.9	1318.8	1309.2	1296.6	1281.9
20.5°	1266.1	1275.2	1289.3	1303.0	1312.6	1318.3	1320.3	1315.7	1305.9	1293.0	1277.7
21°	1262.2	1271.8	1286.2	1299.9	1309.5	1315.2	1317.2	1312.6	1302.5	1288.8	1273.6



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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°	1249.3	1260.4	1274.9	1288.8	1299.4	1304.1	1305.9	1300.4	1289.6	1275.2	1258.4
23°	1244.4	1256.1	1270.5	1284.4	1295.3	1299.7	1301.5	1295.8	1284.7	1269.7	1252.7
23.5°	1239.0	1251.4	1265.9	1279.5	1290.4	1294.8	1296.6	1290.4	1279.3	1263.8	1246.8
24°	1233.3	1246.2	1260.7	1274.6	1286.0	1289.6	1291.4	1285.0	1273.6	1257.9	1240.3
24.5°	1227.4	1241.1	1255.3	1269.0	1280.8	1283.9	1285.2	1279.0	1267.2	1251.2	1233.3
25°	1220.7	1235.2	1249.6	1263.0	1274.4	1278.0	1279.3	1272.6	1260.4	1244.2	1226.1
25.5°	1214.0	1229.0	1243.2	1256.8	1268.4	1271.3	1272.3	1265.6	1253.2	1236.7	1218.6
26°	1206.5	1222.0	1236.4	1250.1	1262.0	1264.3	1265.1	1258.1	1245.5	1228.7	1210.4
26.5°	1198.8	1215.0	1229.5	1242.9	1254.8	1256.3	1257.1	1250.1	1237.2	1220.2	1201.6
27°	1190.2	1207.0	1221.7	1235.4	1246.5	1248.3	1248.6	1241.6	1228.4	1211.4	1192.6
27.5°	1181.2	1199.0	1213.5	1227.4	1238.8	1239.8	1239.8	1232.6	1219.1	1201.9	1182.5
28°	1171.7	1190.0	1204.7	1218.6	1230.0	1230.2	1230.5	1222.8	1209.3	1191.8	1172.4
28.5°	1161.6	1180.4	1195.7	1209.9	1220.7	1220.4	1220.2	1212.4	1198.8	1181.0	1161.9
29°	1150.8	1170.4	1185.9	1200.3	1210.9	1210.1	1209.9	1201.6	1187.9	1170.1	1150.5
29.5°	1139.9	1160.1	1175.8	1190.2	1200.8	1199.0	1198.5	1190.2	1176.3	1158.5	1138.6
30°	1128.0	1148.7	1165.0	1179.9	1189.7	1187.4	1186.6	1178.4	1164.2	1146.6	1126.2
30.5°	1115.9	1136.8	1153.6	1168.8	1178.6	1175.3	1174.2	1165.7	1151.5	1134.0	1113.3
31°	1102.5	1123.9	1141.7	1157.0	1166.5	1162.1	1160.8	1152.3	1138.4	1120.6	1099.4
31.5°	1088.6	1110.8	1129.3	1144.8	1153.9	1149.0	1147.4	1138.4	1124.7	1106.6	1084.7
32°	1073.9	1096.3	1115.7	1132.4	1141.0	1135.0	1132.2	1123.7	1110.0	1092.2	1068.9
32.5°	1058.1	1080.8	1101.2	1118.8	1127.8	1119.8	1116.4	1107.9	1094.5	1076.9	1051.7
33°	1040.8	1064.6	1086.0	1104.8	1113.1	1104.0	1100.2	1091.1	1078.5	1060.7	1034.1
33.5°	1023.0	1046.8	1069.5	1090.1	1098.4	1087.8	1082.6	1073.9	1062.0	1043.7	1015.3
34°	1003.1	1028.7	1052.9	1074.6	1082.9	1070.8	1064.3	1055.3	1044.2	1025.3	995.1
34.5°	982.2	1008.8	1034.4	1058.4	1066.6	1052.2	1044.4	1035.7	1024.8	1005.2	973.2
35°	959.8	987.1	1015.3	1040.6	1049.6	1032.3	1023.0	1014.5	1004.2	982.8	947.9
35.5°	936.6	963.7	994.1	1021.5	1030.8	1010.1	1000.6	991.5	981.5	957.7	921.3
36°	911.0	938.6	972.2	1000.6	1010.9	987.4	976.8	967.0	956.7	931.4	892.9
36.5°	881.1	911.5	947.4	976.8	988.9	961.8	951.3	941.5	929.8	902.2	861.5
37°	846.7	880.0	920.3	952.3	964.2	936.6	925.5	914.6	900.7	870.7	828.4
37.5°	809.8	844.9	891.1	924.9	938.4	908.4	898.6	887.0	868.2	835.1	792.8
38°	773.2	809.3	860.2	897.8	911.0	879.5	871.5	857.8	832.6	797.2	757.2
38.5°	735.5	774.5	827.4	866.1	881.1	848.0	843.1	827.9	794.9	758.5	719.8
39°	699.4	741.5	793.1	834.6	844.9	816.0	813.2	796.2	756.4	718.0	680.8
39.5°	663.8	707.6	756.9	799.5	803.9	781.5	779.6	762.6	718.0	678.2	641.1
40°	628.2	674.6	719.8	763.9	762.9	745.6	746.6	727.0	681.3	639.0	601.6
40.5°	591.3	638.2	682.9	724.2	723.6	707.6	714.4	691.1	645.7	600.3	559.5
41°	553.8	600.3	645.7	683.9	687.8	670.5	678.7	654.5	609.6	562.6	518.7
41.5°	517.4	561.1	607.5	643.4	652.2	631.8	642.4	616.3	572.9	524.2	479.0
42°	480.8	523.9	569.8	602.1	615.8	595.6	604.9	578.3	535.0	486.2	442.6
42.5°	445.4	487.2	531.9	560.5	579.1	559.3	566.5	540.7	498.3	448.3	403.4
43°	411.4	450.9	493.4	521.1	539.6	523.1	526.5	501.7	460.7	410.1	367.8
43.5°	376.5	415.2	454.0	480.8	501.2	486.2	488.0	464.0	425.3	374.0	332.1



TEST NUMBER: P776194

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	276.1	307.6	336.3	370.1	393.8	376.0	370.3	355.1	321.6	279.0	239.2
45.5°	243.6	273.3	300.1	335.0	359.0	340.7	334.5	319.0	288.8	249.6	209.6
46°	213.9	240.5	266.3	303.0	324.7	306.1	297.8	284.7	257.8	220.4	179.9
46.5°	184.8	209.0	234.3	271.2	289.6	274.6	267.4	253.4	226.8	191.2	150.5
47°	157.2	179.4	204.1	240.8	259.6	242.8	236.9	222.5	195.9	161.8	127.5
47.5°	131.4	150.5	176.8	211.4	229.7	211.1	206.5	191.5	164.9	136.5	106.6
48°	108.6	124.7	151.0	182.5	199.8	179.4	176.0	160.3	138.3	113.3	88.0
48.5°	88.3	101.4	127.7	155.9	169.8	147.6	145.6	133.9	113.8	92.1	71.2
49°	75.9	82.6	107.1	131.6	144.0	120.5	121.8	108.9	91.4	73.0	57.0
49.5°	63.5	69.7	87.7	109.7	119.0	97.6	98.6	87.2	71.7	56.5	44.4
50°	51.1	56.8	74.8	89.6	96.0	77.4	77.4	68.1	54.5	47.0	36.6
50.5°	38.5	43.9	62.2	75.9	75.1	59.4	59.4	51.1	44.9	37.2	29.2
51°	26.3	31.2	49.6	62.5	56.8	49.0	48.8	42.1	35.4	27.6	21.4
51.5°	19.1	23.5	36.9	49.0	47.0	38.5	38.5	33.0	25.8	17.8	13.7
52°	13.2	16.8	24.3	35.6	37.2	28.1	27.9	24.0	16.3	8.0	6.2
52.5°	8.3	11.1	16.5	22.2	27.1	17.8	17.3	15.0	7.0	5.2	4.1
53°	7.0	9.5	10.3	14.2	17.3	7.7	7.0	5.7	4.6	3.9	3.4
53.5°	5.4	7.7	8.5	8.3	7.7	4.9	4.6	4.1	3.6	3.1	2.6
54°	3.9	5.9	6.5	6.7	4.9	3.9	3.6	3.4	2.8	2.3	2.1
54.5°	2.6	4.1	4.6	5.2	3.9	3.1	2.8	2.6	2.1	1.8	1.5
55°	2.1	2.3	2.8	3.9	3.1	2.3	2.3	2.1	1.8	1.5	1.3
55.5°	1.5	1.8	2.1	2.3	2.3	1.8	1.8	1.5	1.3	1.3	1.0
56°	1.3	1.5	1.8	1.8	1.8	1.3	1.3	1.3	1.0	1.0	1.0
56.5°	1.0	1.3	1.3	1.5	1.3	1.0	1.0	1.0	1.0	0.8	0.8
57°	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	0.8	0.8	0.8
57.5°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
58°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5
58.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
59°	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5
59.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
61.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
64.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
66°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P776194

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
71.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	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	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: P776194

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-5000K

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: P776194

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
0.5°	1325.2	1325.0	1326.0	1326.5	1326.5	1325.5
1°	1325.0	1324.4	1325.2	1325.7	1325.7	1325.0
1.5°	1324.4	1323.7	1324.4	1325.0	1325.0	1324.4
2°	1323.9	1323.2	1323.7	1324.2	1324.2	1323.9
2.5°	1323.7	1322.4	1323.2	1323.4	1323.7	1323.4
3°	1323.2	1321.9	1322.4	1322.6	1322.6	1322.6
3.5°	1322.4	1321.1	1321.3	1321.9	1321.9	1322.1
4°	1322.1	1320.3	1320.6	1321.1	1321.1	1321.3
4.5°	1321.3	1319.3	1319.8	1320.3	1320.3	1320.6
5°	1320.8	1318.5	1318.8	1319.3	1319.8	1319.8
5.5°	1320.1	1317.7	1318.0	1318.5	1318.8	1319.0
6°	1319.5	1316.7	1317.0	1317.7	1318.0	1318.3
6.5°	1318.8	1315.7	1316.2	1316.7	1317.2	1317.5
7°	1317.7	1314.6	1315.2	1315.9	1316.4	1316.7
7.5°	1317.0	1313.6	1314.1	1314.9	1315.4	1315.7
8°	1316.2	1312.6	1313.1	1314.1	1314.6	1314.6
8.5°	1315.2	1311.3	1311.8	1313.1	1313.6	1313.6
9°	1314.1	1310.0	1310.8	1312.1	1312.6	1312.6
9.5°	1313.3	1308.7	1309.5	1311.0	1311.5	1311.3
10°	1312.1	1307.4	1308.2	1310.0	1310.5	1310.3
10.5°	1311.0	1305.9	1306.9	1308.7	1309.2	1309.0
11°	1309.7	1304.6	1305.6	1307.7	1308.2	1307.7
11.5°	1308.4	1302.8	1304.1	1306.4	1306.9	1306.4
12°	1307.2	1301.2	1302.5	1305.1	1305.6	1305.1
12.5°	1305.6	1299.7	1300.7	1303.5	1304.3	1303.5
13°	1304.1	1297.9	1298.9	1302.0	1302.8	1302.0
13.5°	1302.2	1296.1	1297.3	1300.4	1301.0	1300.4
14°	1300.7	1294.0	1295.3	1298.6	1299.4	1298.6
14.5°	1298.6	1291.9	1293.2	1296.6	1297.6	1297.1
15°	1296.8	1289.6	1291.2	1294.5	1295.5	1295.3
15.5°	1294.8	1287.3	1288.6	1292.4	1293.5	1293.2
16°	1292.2	1284.7	1286.2	1289.9	1291.2	1291.2
16.5°	1289.9	1282.1	1283.7	1287.3	1288.8	1289.1
17°	1287.3	1279.3	1280.6	1284.4	1286.2	1286.8
17.5°	1284.4	1276.2	1277.7	1281.3	1283.4	1284.2
18°	1281.3	1272.8	1274.4	1278.0	1280.3	1281.6
18.5°	1278.0	1269.7	1271.0	1274.4	1277.0	1279.0
19°	1274.6	1266.1	1267.4	1270.5	1273.6	1275.9
19.5°	1271.0	1262.0	1263.5	1266.4	1269.7	1272.8
20°	1266.9	1258.1	1259.4	1262.0	1265.6	1269.7
20.5°	1262.8	1253.7	1255.0	1257.3	1261.2	1266.1
21°	1258.1	1249.1	1250.4	1252.2	1256.8	1262.2



TEST NUMBER: P776194

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1242.9	1233.3	1234.4	1235.2	1240.8	1249.3
23°	1237.2	1227.4	1228.4	1228.7	1234.9	1244.4
23.5°	1230.8	1221.2	1222.0	1222.2	1228.4	1239.0
24°	1224.3	1214.5	1215.5	1215.3	1221.7	1233.3
24.5°	1217.3	1207.3	1208.3	1207.8	1214.8	1227.4
25°	1209.9	1199.8	1200.8	1199.8	1207.3	1220.7
25.5°	1202.1	1191.8	1192.6	1191.8	1199.3	1214.0
26°	1193.6	1183.5	1184.1	1183.0	1191.3	1206.5
26.5°	1184.8	1174.5	1175.3	1174.2	1182.5	1198.8
27°	1175.5	1164.7	1166.0	1164.7	1173.5	1190.2
27.5°	1165.5	1154.6	1156.2	1154.9	1163.7	1181.2
28°	1154.9	1144.0	1145.9	1144.0	1153.6	1171.7
28.5°	1143.8	1132.7	1135.0	1133.7	1142.8	1161.6
29°	1132.4	1121.1	1123.7	1122.1	1131.7	1150.8
29.5°	1120.3	1108.7	1112.0	1110.8	1120.6	1139.9
30°	1107.4	1096.0	1099.4	1098.4	1108.7	1128.0
30.5°	1093.5	1081.9	1086.8	1086.2	1096.3	1115.9
31°	1078.2	1067.4	1072.8	1072.6	1083.1	1102.5
31.5°	1062.2	1051.1	1058.1	1058.6	1068.9	1088.6
32°	1045.2	1034.4	1041.9	1042.6	1053.5	1073.9
32.5°	1026.6	1015.8	1025.1	1026.1	1036.9	1058.1
33°	1007.8	996.4	1006.5	1008.0	1019.4	1040.8
33.5°	986.6	975.5	988.2	990.2	1001.8	1023.0
34°	964.9	952.3	968.3	970.9	982.8	1003.1
34.5°	941.2	927.5	946.9	949.5	962.1	982.2
35°	915.1	900.2	923.7	926.0	939.4	959.8
35.5°	885.7	870.0	897.1	900.7	914.6	936.6
36°	854.7	836.4	867.4	872.0	887.5	911.0
36.5°	819.9	801.3	834.1	840.6	856.8	881.1
37°	784.8	767.3	797.7	806.2	822.7	846.7
37.5°	747.9	734.2	758.5	770.6	785.8	809.8
38°	713.1	700.2	718.7	732.4	748.4	773.2
38.5°	677.2	666.4	681.1	694.2	710.5	735.5
39°	642.6	626.9	644.7	653.4	672.0	699.4
39.5°	607.0	587.1	609.8	614.5	633.1	663.8
40°	570.3	546.9	573.4	575.3	593.1	628.2
40.5°	532.2	512.0	535.5	535.8	555.1	591.3
41°	492.9	477.4	498.1	496.5	518.2	553.8
41.5°	453.4	443.9	461.4	457.3	481.3	517.4
42°	415.5	408.5	425.8	420.4	444.7	480.8
42.5°	377.3	372.9	391.2	385.3	407.2	445.4
43°	339.9	337.8	357.7	351.2	371.6	411.4
43.5°	304.0	303.0	324.4	318.5	337.0	376.5



TEST NUMBER: P776194

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	211.4	208.5	229.4	228.7	243.6	276.1
45.5°	180.4	178.8	200.5	202.8	215.5	243.6
46°	149.4	149.4	173.9	178.6	189.7	213.9
46.5°	125.4	123.4	149.4	155.6	165.7	184.8
47°	104.5	99.4	126.5	134.5	143.0	157.2
47.5°	85.7	85.7	105.3	114.6	122.3	131.4
48°	69.7	72.3	86.5	97.3	103.5	108.6
48.5°	55.5	58.8	73.3	83.9	86.2	88.3
49°	43.9	45.4	60.4	70.7	73.3	75.9
49.5°	36.4	32.0	47.7	57.8	60.4	63.5
50°	29.2	24.3	34.8	44.6	47.2	51.1
50.5°	21.9	17.8	25.8	31.5	34.6	38.5
51°	14.7	12.4	18.8	23.0	25.3	26.3
51.5°	7.5	7.7	12.6	15.5	17.5	19.1
52°	4.9	6.2	8.0	9.5	11.4	13.2
52.5°	3.6	4.9	6.5	7.7	9.5	8.3
53°	3.1	3.9	5.2	5.9	7.7	7.0
53.5°	2.3	2.6	3.9	4.4	5.9	5.4
54°	1.8	2.1	2.6	2.6	4.1	3.9
54.5°	1.5	1.5	2.1	2.1	2.3	2.6
55°	1.3	1.3	1.5	1.5	1.8	2.1
55.5°	1.0	1.0	1.3	1.3	1.5	1.5
56°	1.0	1.0	1.0	1.0	1.3	1.3
56.5°	0.8	0.8	1.0	1.0	1.0	1.0
57°	0.8	0.8	0.8	0.8	0.8	1.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8
58°	0.5	0.5	0.8	0.8	0.8	0.8
58.5°	0.5	0.5	0.5	0.8	0.8	0.8
59°	0.5	0.5	0.5	0.5	0.5	0.5
59.5°	0.5	0.5	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5
60.5°	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.5	0.5	0.5	0.5	0.5	0.5
61.5°	0.5	0.5	0.5	0.5	0.5	0.5
62°	0.3	0.5	0.5	0.5	0.5	0.5
62.5°	0.3	0.3	0.5	0.5	0.5	0.5
63°	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.3	0.3	0.3	0.3	0.3	0.3
64.5°	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3
65.5°	0.3	0.3	0.3	0.3	0.3	0.3
66°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P776194

CATALOG NUMBER: HCDJBL1525CSD-HCD8TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.0	0.3	0.3	0.3	0.3	0.3
72°	0.0	0.0	0.3	0.3	0.3	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	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: P776194

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-5000K

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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Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	1258.4	1268.4	1282.9	1296.6	1306.4	1311.8	1313.9	1308.7	1298.6	1284.7	1269.0
22°	1254.0	1264.6	1279.0	1292.7	1303.3	1308.2	1310.0	1304.8	1294.2	1280.1	1264.1



44°	342.2	379.9	413.7	442.9	464.0	449.3	447.2	427.9	390.5	339.9	298.3
44.5°	308.7	343.8	374.0	405.2	427.9	412.4	409.8	391.2	356.4	308.1	268.7



66.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



89°	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

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21.5°	1253.5	1244.2	1245.5	1247.0	1251.7	1258.4
22°	1248.3	1239.0	1240.1	1241.3	1246.5	1254.0

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44°	273.0	269.9	292.1	286.2	304.0	342.2
44.5°	242.3	239.0	259.9	256.5	273.0	308.7

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66.5°	0.3	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3

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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)