

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: P776193

Luminaire Tested: HCDJBS1525CSD-HCD8TRMB-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776193
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-4000K
Description: 8 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1875.4 lumens
Efficiency: N/A
Efficacy: 75.0 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

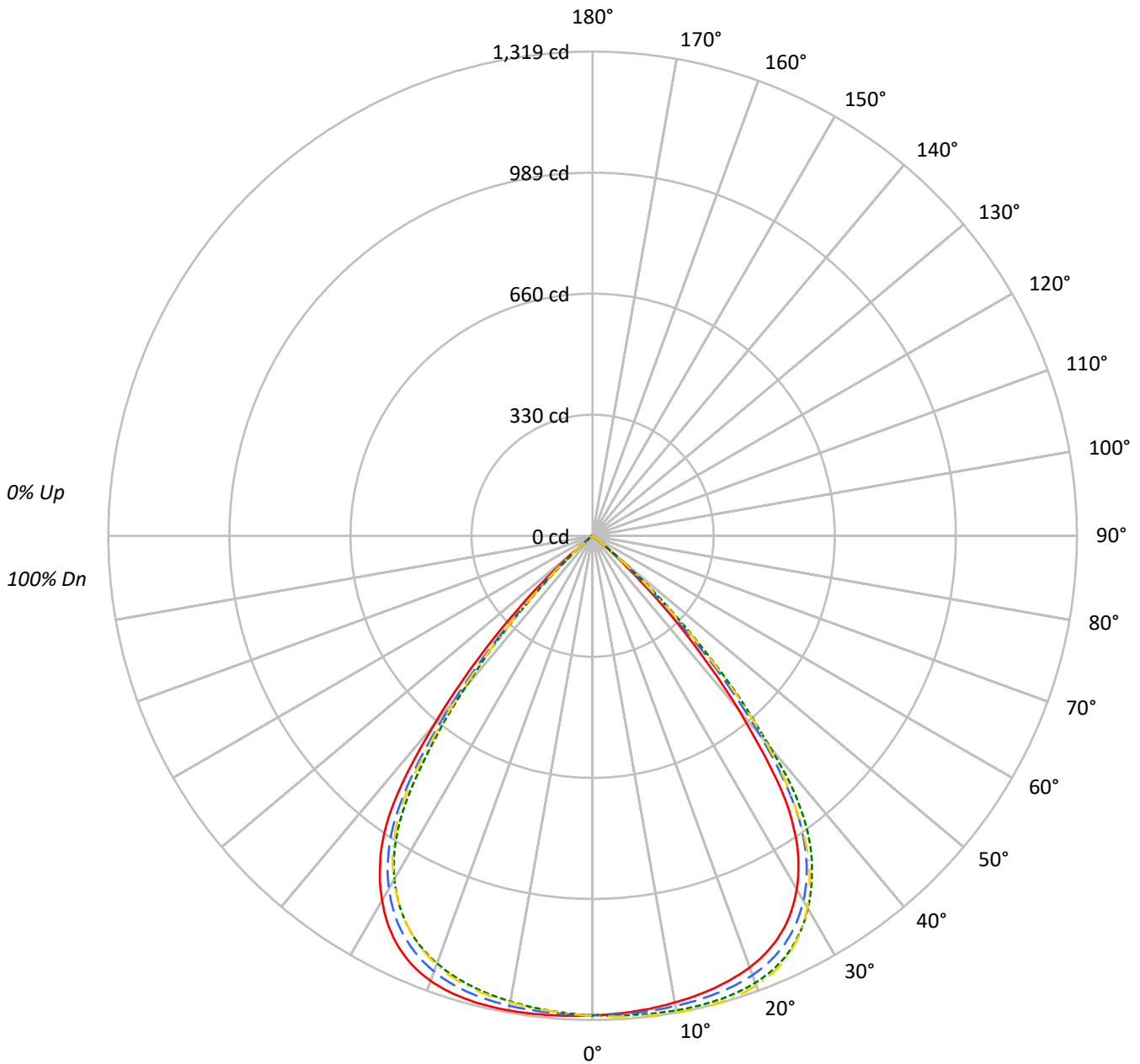
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93	93	93	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85	85	85	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	78
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	65	65
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60	60	60	60
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55	55	55	55
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51	51	51	51
9	71	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	48	47	47	47	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	39891	39891	39891	39891
5°	39856	40154	40178	39820
10°	40026	40695	40705	39939
15°	40344	41412	41364	40167
20°	40651	42107	41915	40281
25°	40521	42303	41842	39827
30°	39188	41331	40443	38077
35°	35251	38549	36879	33059
40°	24670	29959	26758	21478
45°	11748	16757	13683	8873
50°	2394	4493	2551	1135
55°	106	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: 16757 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	6.6
10°-20°	365.4	19.5
20°-30°	559.6	29.8
30°-40°	582.3	31.1
40°-50°	235.1	12.5
50°-60°	8.0	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°	1049.5	56.0
0°-40°	1631.9	87.0
0°-60°	1875.0	100.0
0°-90°	1875.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1307	1307	1307	1307	1307	
5°	1300	1310	1311	1299	1300	124
15°	1276	1310	1309	1271	1276	361
25°	1203	1256	1242	1182	1203	551
35°	946	1034	990	887	946	569
45°	272	388	317	206	272	219
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°	1306.6	1306.6	1306.6	1306.6	1306.6	1306.6	1306.6	1306.6	1306.6	1306.6	1306.6
0.5°	1306.1	1305.6	1306.1	1306.4	1306.6	1307.9	1308.4	1308.4	1307.2	1306.4	1306.1
1°	1305.6	1305.6	1306.1	1306.6	1307.2	1308.7	1309.2	1308.9	1307.7	1306.6	1305.9
1.5°	1305.1	1305.1	1306.1	1306.9	1307.7	1309.2	1310.0	1309.7	1308.2	1306.6	1305.9
2°	1304.6	1304.9	1305.9	1307.2	1308.2	1309.7	1310.5	1310.2	1308.4	1306.9	1305.9
2.5°	1304.1	1304.4	1305.9	1307.4	1308.4	1310.2	1311.2	1310.7	1308.9	1307.2	1305.6
3°	1303.3	1304.1	1305.6	1307.4	1308.7	1311.0	1311.7	1311.5	1309.4	1307.4	1305.4
3.5°	1302.8	1303.6	1305.6	1307.4	1309.2	1311.2	1312.2	1312.0	1310.0	1307.4	1305.1
4°	1302.1	1303.1	1305.1	1307.7	1309.4	1311.7	1313.0	1312.5	1310.5	1307.4	1305.1
4.5°	1301.3	1302.6	1304.9	1307.7	1309.7	1312.5	1313.5	1313.0	1310.7	1307.7	1304.6
5°	1300.5	1302.1	1304.6	1307.7	1310.2	1313.0	1314.0	1313.8	1311.0	1307.7	1304.4
5.5°	1299.8	1301.3	1304.4	1307.9	1310.5	1313.5	1314.8	1314.3	1311.5	1307.7	1304.1
6°	1299.0	1300.8	1304.1	1307.9	1310.7	1314.0	1315.3	1314.5	1311.7	1307.9	1303.8
6.5°	1298.3	1300.0	1303.6	1307.9	1311.2	1314.5	1315.8	1315.0	1312.0	1307.9	1303.6
7°	1297.5	1299.3	1303.3	1307.9	1311.5	1314.8	1316.3	1315.5	1312.2	1307.7	1303.1
7.5°	1296.5	1298.5	1303.1	1308.2	1311.7	1315.3	1316.8	1316.1	1312.5	1307.7	1302.8
8°	1295.5	1297.7	1302.6	1307.9	1312.0	1315.8	1317.3	1316.3	1312.7	1307.9	1302.3
8.5°	1294.4	1296.7	1302.1	1308.2	1312.2	1316.1	1317.6	1316.8	1312.7	1307.7	1301.8
9°	1293.4	1296.0	1301.6	1307.9	1312.5	1316.3	1318.1	1317.1	1313.0	1307.4	1301.6
9.5°	1292.1	1294.9	1301.0	1307.9	1312.5	1316.6	1318.3	1317.3	1313.0	1307.4	1300.8
10°	1291.1	1293.9	1300.5	1307.7	1312.7	1316.8	1318.6	1317.6	1313.0	1307.2	1300.3
10.5°	1289.9	1292.9	1300.0	1307.7	1312.7	1317.1	1318.9	1317.6	1313.0	1306.9	1299.5
11°	1288.6	1291.9	1299.3	1307.4	1312.7	1317.3	1319.1	1317.8	1312.7	1306.4	1298.8
11.5°	1287.3	1290.6	1298.5	1307.2	1312.7	1317.3	1319.1	1317.8	1312.7	1305.9	1298.0
12°	1286.0	1289.4	1298.0	1306.9	1312.7	1317.3	1319.4	1317.8	1312.5	1305.4	1297.0
12.5°	1284.5	1288.3	1297.2	1306.6	1312.5	1317.3	1319.4	1317.6	1312.0	1304.9	1296.2
13°	1283.0	1286.8	1296.2	1306.1	1312.2	1317.3	1319.1	1317.6	1311.7	1304.1	1294.9
13.5°	1281.5	1285.5	1295.5	1305.6	1311.7	1317.3	1318.9	1317.3	1311.2	1303.1	1293.9
14°	1279.7	1284.3	1294.4	1305.1	1311.2	1316.8	1318.6	1317.1	1310.5	1302.3	1292.4
14.5°	1278.2	1282.7	1293.4	1304.4	1311.0	1316.6	1318.3	1316.6	1309.7	1301.3	1291.1
15°	1276.4	1281.2	1292.1	1303.6	1310.2	1316.1	1317.8	1316.1	1308.7	1300.0	1289.6
15.5°	1274.3	1279.7	1290.9	1302.6	1309.7	1315.5	1317.1	1315.3	1307.7	1298.8	1287.8
16°	1272.3	1277.9	1289.6	1301.6	1308.7	1314.8	1316.3	1314.3	1306.4	1297.2	1286.0
16.5°	1270.3	1276.1	1288.1	1300.5	1307.7	1313.8	1315.5	1313.3	1305.1	1295.5	1284.0
17°	1268.0	1274.1	1286.6	1299.0	1306.6	1312.7	1314.3	1311.7	1303.6	1293.7	1281.7
17.5°	1265.4	1272.1	1284.8	1297.5	1305.4	1311.5	1313.0	1310.5	1302.1	1291.6	1279.2
18°	1262.9	1270.0	1282.7	1295.7	1303.8	1310.0	1311.7	1308.7	1300.0	1289.4	1276.4
18.5°	1260.4	1267.5	1281.0	1293.9	1302.3	1308.2	1310.0	1306.6	1298.0	1286.8	1273.6
19°	1257.3	1265.2	1278.7	1291.9	1300.3	1306.1	1308.2	1304.6	1295.5	1284.0	1270.5
19.5°	1254.3	1262.4	1276.1	1289.4	1298.3	1304.1	1306.1	1302.1	1292.9	1281.0	1267.0
20°	1251.2	1259.6	1273.6	1286.8	1296.0	1301.8	1303.6	1299.5	1290.1	1277.7	1263.2
20.5°	1247.6	1256.5	1270.5	1284.0	1293.4	1299.0	1301.0	1296.5	1286.8	1274.1	1259.1
21°	1243.8	1253.2	1267.5	1281.0	1290.4	1296.0	1298.0	1293.4	1283.5	1270.0	1255.0



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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°	1231.1	1242.1	1256.3	1270.0	1280.5	1285.0	1286.8	1281.5	1270.8	1256.5	1240.0
23°	1226.3	1237.7	1252.0	1265.7	1276.4	1280.7	1282.5	1276.9	1266.0	1251.2	1234.4
23.5°	1220.9	1233.1	1247.4	1260.9	1271.5	1275.9	1277.7	1271.5	1260.6	1245.4	1228.6
24°	1215.3	1228.1	1242.3	1256.0	1267.2	1270.8	1272.6	1266.2	1255.0	1239.5	1222.2
24.5°	1209.5	1223.0	1237.0	1250.4	1262.1	1265.2	1266.5	1260.4	1248.7	1232.9	1215.3
25°	1202.9	1217.1	1231.4	1244.6	1255.8	1259.3	1260.6	1254.0	1242.1	1226.0	1208.2
25.5°	1196.3	1211.0	1225.0	1238.5	1249.9	1252.7	1253.7	1247.1	1234.9	1218.7	1200.9
26°	1188.9	1204.2	1218.4	1231.9	1243.6	1245.9	1246.6	1239.8	1227.3	1210.8	1192.7
26.5°	1181.3	1197.3	1211.5	1224.8	1236.5	1238.0	1238.7	1231.9	1219.2	1202.4	1184.1
27°	1172.9	1189.4	1203.9	1217.4	1228.3	1230.1	1230.4	1223.5	1210.5	1193.7	1175.2
27.5°	1164.0	1181.5	1195.8	1209.5	1220.7	1221.7	1221.7	1214.6	1201.4	1184.3	1165.2
28°	1154.6	1172.6	1187.1	1200.9	1212.0	1212.3	1212.6	1204.9	1191.7	1174.4	1155.3
28.5°	1144.6	1163.2	1178.2	1192.2	1202.9	1202.6	1202.4	1194.7	1181.3	1163.7	1144.9
29°	1134.0	1153.3	1168.6	1182.8	1193.2	1192.5	1192.2	1184.1	1170.6	1153.0	1133.7
29.5°	1123.3	1143.1	1158.6	1172.9	1183.3	1181.5	1181.0	1172.9	1159.1	1141.6	1122.0
30°	1111.6	1131.9	1148.0	1162.7	1172.4	1170.1	1169.3	1161.2	1147.2	1129.9	1109.8
30.5°	1099.6	1120.2	1136.8	1151.8	1161.4	1158.1	1157.1	1148.7	1134.7	1117.4	1097.1
31°	1086.4	1107.5	1125.1	1140.1	1149.5	1145.2	1143.9	1135.5	1121.8	1104.2	1083.4
31.5°	1072.7	1094.6	1112.9	1128.1	1137.0	1132.2	1130.7	1121.8	1108.3	1090.5	1068.9
32°	1058.2	1080.3	1099.4	1115.9	1124.3	1118.5	1115.7	1107.3	1093.8	1076.2	1053.4
32.5°	1042.7	1065.1	1085.1	1102.4	1111.3	1103.5	1100.1	1091.8	1078.5	1061.2	1036.3
33°	1025.6	1049.0	1070.1	1088.7	1096.8	1087.9	1084.1	1075.2	1062.8	1045.2	1019.0
33.5°	1008.1	1031.5	1053.9	1074.2	1082.3	1071.9	1066.8	1058.2	1046.5	1028.4	1000.5
34°	988.5	1013.7	1037.6	1058.9	1067.1	1055.1	1048.8	1039.9	1028.9	1010.4	980.6
34.5°	967.9	994.1	1019.3	1042.9	1051.1	1036.8	1029.2	1020.5	1009.9	990.5	959.0
35°	945.8	972.7	1000.5	1025.4	1034.3	1017.2	1008.1	999.7	989.5	968.4	934.1
35.5°	922.9	949.6	979.6	1006.6	1015.7	995.4	986.0	977.1	967.1	943.7	907.9
36°	897.7	924.9	958.0	986.0	996.1	973.0	962.6	952.9	942.7	917.8	879.9
36.5°	868.2	898.2	933.6	962.6	974.5	947.8	937.4	927.7	916.3	889.1	848.9
37°	834.4	867.2	906.9	938.4	950.1	922.9	912.0	901.3	887.5	858.0	816.3
37.5°	798.0	832.6	878.1	911.4	924.7	895.2	885.5	874.1	855.5	822.9	781.2
38°	761.9	797.5	847.6	884.7	897.7	866.7	858.8	845.3	820.4	785.6	746.1
38.5°	724.8	763.2	815.3	853.5	868.2	835.7	830.8	815.8	783.3	747.4	709.3
39°	689.2	730.6	781.5	822.4	832.6	804.1	801.3	784.5	745.4	707.5	670.9
39.5°	654.1	697.3	745.9	787.9	792.2	770.1	768.3	751.5	707.5	668.3	631.7
40°	619.0	664.8	709.3	752.8	751.7	734.7	735.7	716.4	671.4	629.7	592.8
40.5°	582.6	628.9	672.9	713.6	713.1	697.3	703.9	681.0	636.3	591.5	551.3
41°	545.7	591.5	636.3	673.9	677.7	660.7	668.8	644.9	600.7	554.4	511.2
41.5°	509.9	552.9	598.6	634.0	642.6	622.6	633.0	607.3	564.6	516.5	472.0
42°	473.8	516.2	561.5	593.3	606.8	586.9	596.1	569.9	527.2	479.1	436.1
42.5°	438.9	480.1	524.1	552.4	570.7	551.1	558.2	532.8	491.1	441.7	397.5
43°	405.4	444.3	486.2	513.5	531.8	515.5	518.8	494.4	453.9	404.1	362.4
43.5°	371.0	409.2	447.3	473.8	493.9	479.1	480.9	457.2	419.1	368.5	327.3



TEST NUMBER: P776193

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	272.1	303.1	331.4	364.7	388.1	370.5	364.9	349.9	316.9	274.9	235.7
45.5°	240.1	269.3	295.8	330.1	353.7	335.7	329.6	314.3	284.6	245.9	206.5
46°	210.8	237.0	262.4	298.6	319.9	301.6	293.5	280.5	254.1	217.2	177.3
46.5°	182.1	206.0	230.9	267.3	285.3	270.6	263.5	249.7	223.5	188.4	148.3
47°	154.9	176.7	201.2	237.3	255.8	239.3	233.5	219.2	193.0	159.5	125.6
47.5°	129.4	148.3	174.2	208.3	226.3	208.0	203.4	188.7	162.5	134.5	105.0
48°	107.1	122.8	148.8	179.8	196.8	176.7	173.4	157.9	136.3	111.6	86.7
48.5°	87.0	99.9	125.9	153.6	167.3	145.5	143.4	132.0	112.2	90.8	70.2
49°	74.8	81.4	105.5	129.7	141.9	118.8	120.0	107.3	90.0	72.0	56.2
49.5°	62.6	68.7	86.5	108.1	117.2	96.1	97.1	86.0	70.7	55.7	43.7
50°	50.4	55.9	73.7	88.2	94.6	76.3	76.3	67.1	53.7	46.3	36.1
50.5°	37.9	43.2	61.3	74.8	74.0	58.5	58.5	50.4	44.2	36.6	28.7
51°	25.9	30.8	48.8	61.5	55.9	48.3	48.1	41.5	34.8	27.2	21.1
51.5°	18.8	23.1	36.4	48.3	46.3	37.9	37.9	32.6	25.4	17.5	13.5
52°	13.0	16.5	23.9	35.1	36.6	27.7	27.5	23.7	16.0	7.9	6.1
52.5°	8.1	10.9	16.3	21.9	26.7	17.5	17.0	14.7	6.9	5.1	4.1
53°	6.9	9.4	10.2	14.0	17.0	7.6	6.9	5.6	4.6	3.8	3.3
53.5°	5.3	7.6	8.4	8.1	7.6	4.8	4.6	4.1	3.6	3.1	2.5
54°	3.8	5.8	6.4	6.6	4.8	3.8	3.6	3.3	2.8	2.3	2.0
54.5°	2.5	4.1	4.6	5.1	3.8	3.1	2.8	2.5	2.0	1.8	1.5
55°	2.0	2.3	2.8	3.8	3.1	2.3	2.3	2.0	1.8	1.5	1.3
55.5°	1.5	1.8	2.0	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: P776193

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMB-2500lm-4000K

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: P776193

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-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: P776193

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1306.6	1306.6	1306.6	1306.6	1306.6	1306.6
0.5°	1305.9	1305.6	1306.6	1307.2	1307.2	1306.1
1°	1305.6	1305.1	1305.9	1306.4	1306.4	1305.6
1.5°	1305.1	1304.4	1305.1	1305.6	1305.6	1305.1
2°	1304.6	1303.8	1304.4	1304.9	1304.9	1304.6
2.5°	1304.4	1303.1	1303.8	1304.1	1304.4	1304.1
3°	1303.8	1302.6	1303.1	1303.3	1303.3	1303.3
3.5°	1303.1	1301.8	1302.1	1302.6	1302.6	1302.8
4°	1302.8	1301.0	1301.3	1301.8	1301.8	1302.1
4.5°	1302.1	1300.0	1300.5	1301.0	1301.0	1301.3
5°	1301.6	1299.3	1299.5	1300.0	1300.5	1300.5
5.5°	1300.8	1298.5	1298.8	1299.3	1299.5	1299.8
6°	1300.3	1297.5	1297.7	1298.5	1298.8	1299.0
6.5°	1299.5	1296.5	1297.0	1297.5	1298.0	1298.3
7°	1298.5	1295.5	1296.0	1296.7	1297.2	1297.5
7.5°	1297.7	1294.4	1294.9	1295.7	1296.2	1296.5
8°	1297.0	1293.4	1293.9	1294.9	1295.5	1295.5
8.5°	1296.0	1292.1	1292.7	1293.9	1294.4	1294.4
9°	1294.9	1290.9	1291.6	1292.9	1293.4	1293.4
9.5°	1294.2	1289.6	1290.4	1291.9	1292.4	1292.1
10°	1292.9	1288.3	1289.1	1290.9	1291.4	1291.1
10.5°	1291.9	1286.8	1287.8	1289.6	1290.1	1289.9
11°	1290.6	1285.5	1286.6	1288.6	1289.1	1288.6
11.5°	1289.4	1283.8	1285.0	1287.3	1287.8	1287.3
12°	1288.1	1282.2	1283.5	1286.0	1286.6	1286.0
12.5°	1286.6	1280.7	1281.7	1284.5	1285.3	1284.5
13°	1285.0	1278.9	1279.9	1283.0	1283.8	1283.0
13.5°	1283.2	1277.1	1278.4	1281.5	1282.0	1281.5
14°	1281.7	1275.1	1276.4	1279.7	1280.5	1279.7
14.5°	1279.7	1273.1	1274.3	1277.7	1278.7	1278.2
15°	1277.9	1270.8	1272.3	1275.6	1276.6	1276.4
15.5°	1275.9	1268.5	1269.8	1273.6	1274.6	1274.3
16°	1273.3	1266.0	1267.5	1271.0	1272.3	1272.3
16.5°	1271.0	1263.4	1264.9	1268.5	1270.0	1270.3
17°	1268.5	1260.6	1261.9	1265.7	1267.5	1268.0
17.5°	1265.7	1257.6	1259.1	1262.6	1264.7	1265.4
18°	1262.6	1254.3	1255.8	1259.3	1261.6	1262.9
18.5°	1259.3	1251.2	1252.5	1255.8	1258.3	1260.4
19°	1256.0	1247.6	1248.9	1252.0	1255.0	1257.3
19.5°	1252.5	1243.6	1245.1	1247.9	1251.2	1254.3
20°	1248.4	1239.8	1241.0	1243.6	1247.1	1251.2
20.5°	1244.3	1235.4	1236.7	1239.0	1242.8	1247.6
21°	1239.8	1230.9	1232.1	1233.9	1238.5	1243.8



TEST NUMBER: P776193

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1224.8	1215.3	1216.4	1217.1	1222.7	1231.1
23°	1219.2	1209.5	1210.5	1210.8	1216.9	1226.3
23.5°	1212.8	1203.4	1204.2	1204.4	1210.5	1220.9
24°	1206.4	1196.8	1197.8	1197.5	1203.9	1215.3
24.5°	1199.6	1189.7	1190.7	1190.2	1197.0	1209.5
25°	1192.2	1182.3	1183.3	1182.3	1189.7	1202.9
25.5°	1184.6	1174.4	1175.2	1174.4	1181.8	1196.3
26°	1176.2	1166.3	1166.8	1165.8	1173.9	1188.9
26.5°	1167.5	1157.4	1158.1	1157.1	1165.2	1181.3
27°	1158.4	1147.7	1149.0	1147.7	1156.3	1172.9
27.5°	1148.5	1137.8	1139.3	1138.0	1146.7	1164.0
28°	1138.0	1127.4	1129.1	1127.4	1136.8	1154.6
28.5°	1127.1	1116.2	1118.5	1117.2	1126.1	1144.6
29°	1115.9	1104.7	1107.3	1105.7	1115.1	1134.0
29.5°	1104.0	1092.5	1095.8	1094.6	1104.2	1123.3
30°	1091.2	1080.1	1083.4	1082.3	1092.5	1111.6
30.5°	1077.5	1066.1	1070.9	1070.4	1080.3	1099.6
31°	1062.5	1051.8	1057.2	1056.9	1067.3	1086.4
31.5°	1046.7	1035.8	1042.7	1043.2	1053.4	1072.7
32°	1030.0	1019.3	1026.6	1027.4	1038.1	1058.2
32.5°	1011.6	1001.0	1010.1	1011.1	1021.8	1042.7
33°	993.1	981.9	991.8	993.3	1004.5	1025.6
33.5°	972.2	961.3	973.8	975.8	987.2	1008.1
34°	950.9	938.4	954.2	956.7	968.4	988.5
34.5°	927.5	914.0	933.1	935.6	948.1	967.9
35°	901.8	887.0	910.2	912.5	925.7	945.8
35.5°	872.8	857.3	884.0	887.5	901.3	922.9
36°	842.3	824.2	854.7	859.3	874.6	897.7
36.5°	807.9	789.6	821.9	828.3	844.3	868.2
37°	773.4	756.1	786.1	794.5	810.7	834.4
37.5°	737.0	723.5	747.4	759.4	774.4	798.0
38°	702.7	689.9	708.3	721.7	737.5	761.9
38.5°	667.3	656.6	671.1	684.1	700.1	724.8
39°	633.2	617.7	635.3	643.9	662.2	689.2
39.5°	598.1	578.6	600.9	605.5	623.8	654.1
40°	562.0	538.9	565.1	566.9	584.4	619.0
40.5°	524.4	504.6	527.7	527.9	547.0	582.6
41°	485.7	470.5	490.8	489.3	510.7	545.7
41.5°	446.8	437.4	454.7	450.6	474.3	509.9
42°	409.4	402.6	419.6	414.3	438.2	473.8
42.5°	371.8	367.5	385.5	379.7	401.3	438.9
43°	334.9	332.9	352.5	346.1	366.2	405.4
43.5°	299.6	298.6	319.7	313.8	332.1	371.0



TEST NUMBER: P776193

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	208.3	205.5	226.1	225.3	240.1	272.1
45.5°	177.8	176.2	197.6	199.9	212.3	240.1
46°	147.2	147.2	171.4	176.0	186.9	210.8
46.5°	123.6	121.6	147.2	153.3	163.3	182.1
47°	103.0	97.9	124.6	132.5	140.9	154.9
47.5°	84.4	84.4	103.8	112.9	120.5	129.4
48°	68.7	71.2	85.2	95.9	102.0	107.1
48.5°	54.7	58.0	72.2	82.7	84.9	87.0
49°	43.2	44.8	59.5	69.7	72.2	74.8
49.5°	35.9	31.5	47.0	57.0	59.5	62.6
50°	28.7	23.9	34.3	44.0	46.5	50.4
50.5°	21.6	17.5	25.4	31.0	34.1	37.9
51°	14.5	12.2	18.6	22.6	24.9	25.9
51.5°	7.4	7.6	12.5	15.3	17.3	18.8
52°	4.8	6.1	7.9	9.4	11.2	13.0
52.5°	3.6	4.8	6.4	7.6	9.4	8.1
53°	3.1	3.8	5.1	5.8	7.6	6.9
53.5°	2.3	2.5	3.8	4.3	5.8	5.3
54°	1.8	2.0	2.5	2.5	4.1	3.8
54.5°	1.5	1.5	2.0	2.0	2.3	2.5
55°	1.3	1.3	1.5	1.5	1.8	2.0
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: P776193

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-4000K

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: P776193

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-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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Cooper Lighting Solutions Photometric Lab
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Scaled Data Report





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

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21.5°	1240.0	1249.9	1264.2	1277.7	1287.3	1292.7	1294.7	1289.6	1279.7	1266.0	1250.4
22°	1235.7	1246.1	1260.4	1273.8	1284.3	1289.1	1290.9	1285.8	1275.4	1261.4	1245.6



44°	337.2	374.3	407.7	436.4	457.2	442.8	440.7	421.6	384.8	334.9	294.0
44.5°	304.2	338.7	368.5	399.3	421.6	406.4	403.8	385.5	351.2	303.6	264.7



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°	1235.2	1226.0	1227.3	1228.8	1233.4	1240.0
22°	1230.1	1220.9	1222.0	1223.2	1228.3	1235.7



44°	269.1	266.0	287.9	282.0	299.6	337.2
44.5°	238.8	235.5	256.1	252.8	269.1	304.2

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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)