

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: P776016

Luminaire Tested: HCDJBS1525CSD-HCD4TSQMB-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B006-HCD4TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K
Description: 4 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

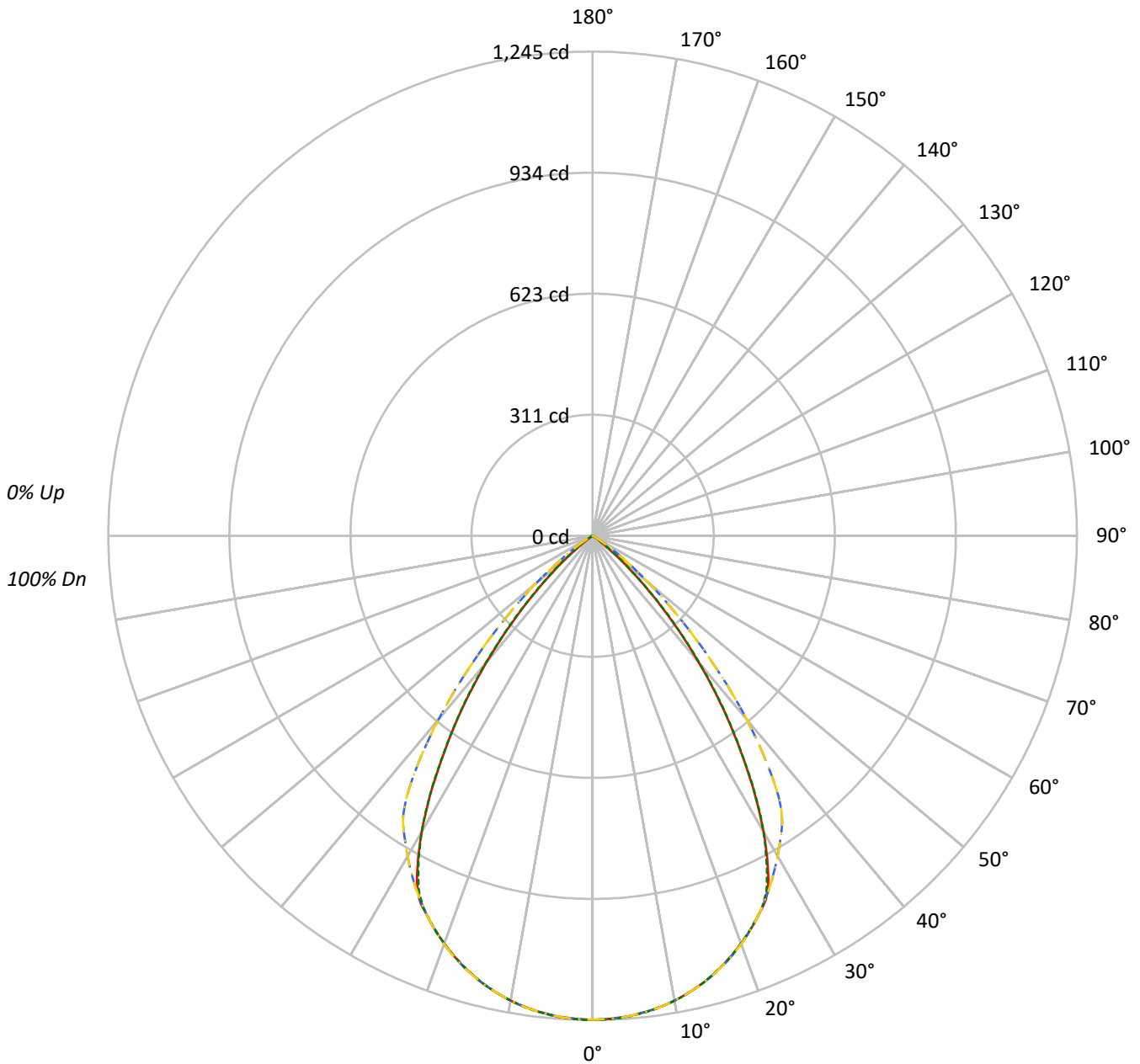
Lumens per Lamp: N/A
Luminaire Lumens: 1646.4 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.14
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P776016
CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K

Luminous Intensity Polar Plot





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CATALOG NUMBER: HCDJBLS1525CSD-HCD4TSQMB-2500lm-3000K

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	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	90	88	86	85					85			
3	100	93	88	84	98	92	87	83	89	85	81	87	83	80	84	82	79	77					77			
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71					71			
5	89	80	73	68	87	79	73	68	77	72	67	75	71	67	74	70	66	65					65			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59					59			
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55					55			
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50					50			
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47					47			
10	67	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	122999	122999	122999	122999
5°	122705	122784	122705	122784
10°	121795	121846	121795	121846
15°	120063	120083	120063	120083
20°	117366	117314	117366	117314
25°	113848	113390	113848	113390
30°	100266	100243	100266	100243
35°	78311	78576	78311	78576
40°	54657	55199	54657	55199
45°	31018	31843	31018	31843
50°	12332	13255	12332	13255
55°	1827	2344	1827	2344
60°	395	395	395	395
65°	281	281	281	281
70°	202	202	202	202
75°	191	191	191	191
80°	114	114	114	114
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 52447 cd/sqm



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CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	7.1
10°-20°	330.3	20.1
20°-30°	475.8	28.9
30°-40°	449.1	27.3
40°-50°	231.5	14.1
50°-60°	40.4	2.5
60°-70°	1.5	0.1
70°-80°	0.4	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°	923.5	56.1
0°-40°	1372.6	83.4
0°-60°	1644.5	99.9
0°-90°	1646.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1244	1244	1244	1244	1244	
5°	1237	1238	1237	1238	1237	117
15°	1173	1174	1173	1174	1173	330
25°	1044	1040	1044	1040	1044	472
35°	649	651	649	651	649	403
45°	222	228	222	228	222	176
55°	11	14	11	14	11	19
65°	1	1	1	1	1	1
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°	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4
0.5°	1244.1	1244.1	1244.1	1244.4	1245.1	1244.4	1244.1	1244.1	1244.1	1244.1	1244.1
1°	1243.9	1243.9	1243.9	1244.1	1244.9	1244.1	1243.9	1243.9	1243.9	1243.9	1243.9
1.5°	1243.4	1243.6	1243.6	1243.6	1244.4	1243.6	1243.6	1243.6	1243.4	1243.6	1243.6
2°	1242.9	1242.9	1243.1	1243.1	1243.9	1243.1	1243.1	1242.9	1242.9	1242.9	1243.1
2.5°	1242.1	1242.1	1242.4	1242.6	1243.1	1242.6	1242.4	1242.1	1242.1	1242.1	1242.4
3°	1241.4	1241.4	1241.7	1241.7	1242.4	1241.7	1241.7	1241.4	1241.4	1241.4	1241.7
3.5°	1240.4	1240.4	1240.7	1240.7	1241.4	1240.7	1240.7	1240.4	1240.4	1240.4	1240.7
4°	1239.4	1239.4	1239.4	1239.7	1240.2	1239.7	1239.4	1239.4	1239.4	1239.4	1239.4
4.5°	1238.2	1238.2	1238.2	1238.2	1238.9	1238.2	1238.2	1238.2	1238.2	1238.2	1238.2
5°	1236.7	1236.7	1236.7	1236.7	1237.5	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7
5.5°	1235.0	1235.0	1235.2	1235.2	1235.7	1235.2	1235.2	1235.0	1235.0	1235.0	1235.2
6°	1233.3	1233.3	1233.3	1233.5	1234.0	1233.5	1233.3	1233.3	1233.3	1233.3	1233.3
6.5°	1231.3	1231.3	1231.5	1231.5	1232.0	1231.5	1231.5	1231.3	1231.3	1231.3	1231.5
7°	1229.3	1229.3	1229.3	1229.6	1230.1	1229.6	1229.3	1229.3	1229.3	1229.3	1229.3
7.5°	1227.1	1227.1	1227.1	1227.1	1227.8	1227.1	1227.1	1227.1	1227.1	1227.1	1227.1
8°	1224.6	1224.6	1224.9	1224.9	1225.4	1224.9	1224.9	1224.6	1224.6	1224.6	1224.9
8.5°	1222.2	1222.2	1222.2	1222.2	1222.6	1222.2	1222.2	1222.2	1222.2	1222.2	1222.2
9°	1219.4	1219.4	1219.4	1219.4	1219.9	1219.4	1219.4	1219.4	1219.4	1219.4	1219.4
9.5°	1216.5	1216.5	1216.5	1216.5	1217.0	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5
10°	1213.5	1213.5	1213.5	1213.5	1214.0	1213.5	1213.5	1213.5	1213.5	1213.5	1213.5
10.5°	1210.3	1210.3	1210.3	1210.1	1210.8	1210.1	1210.3	1210.3	1210.3	1210.3	1210.3
11°	1206.9	1206.9	1207.1	1206.9	1207.3	1206.9	1207.1	1206.9	1206.9	1206.9	1207.1
11.5°	1203.4	1203.4	1203.4	1203.1	1203.6	1203.1	1203.4	1203.4	1203.4	1203.4	1203.4
12°	1199.7	1199.7	1199.7	1199.4	1199.9	1199.4	1199.7	1199.7	1199.7	1199.7	1199.7
12.5°	1195.5	1195.7	1195.7	1195.5	1195.7	1195.5	1195.7	1195.7	1195.5	1195.7	1195.7
13°	1191.5	1191.8	1191.8	1191.3	1191.8	1191.3	1191.8	1191.8	1191.5	1191.8	1191.8
13.5°	1187.3	1187.3	1187.6	1187.1	1187.6	1187.1	1187.6	1187.3	1187.3	1187.3	1187.6
14°	1182.9	1183.2	1183.2	1182.7	1182.9	1182.7	1183.2	1183.2	1182.9	1183.2	1183.2
14.5°	1178.2	1178.5	1178.7	1178.2	1178.2	1178.2	1178.7	1178.5	1178.2	1178.5	1178.7
15°	1173.3	1173.8	1173.8	1173.3	1173.5	1173.3	1173.8	1173.8	1173.3	1173.8	1173.8
15.5°	1168.3	1168.8	1168.8	1168.3	1168.3	1168.3	1168.8	1168.8	1168.3	1168.8	1168.8
16°	1163.2	1163.7	1163.9	1163.2	1163.2	1163.2	1163.9	1163.7	1163.2	1163.7	1163.9
16.5°	1158.0	1158.2	1158.7	1158.0	1157.7	1158.0	1158.7	1158.2	1158.0	1158.2	1158.7
17°	1152.5	1152.8	1153.3	1152.3	1152.3	1152.3	1153.3	1152.8	1152.5	1152.8	1153.3
17.5°	1146.6	1147.1	1147.6	1146.6	1146.6	1146.6	1147.6	1147.1	1146.6	1147.1	1147.6
18°	1140.9	1141.2	1141.7	1140.9	1140.7	1140.9	1141.7	1141.2	1140.9	1141.2	1141.7
18.5°	1135.0	1135.3	1135.8	1134.8	1134.5	1134.8	1135.8	1135.3	1135.0	1135.3	1135.8
19°	1128.6	1129.1	1129.6	1128.6	1128.1	1128.6	1129.6	1129.1	1128.6	1129.1	1129.6
19.5°	1122.4	1122.7	1123.2	1122.2	1121.9	1122.2	1123.2	1122.7	1122.4	1122.7	1123.2
20°	1115.8	1116.3	1116.7	1115.5	1115.3	1115.5	1116.7	1116.3	1115.8	1116.3	1116.7
20.5°	1109.3	1109.6	1110.1	1108.9	1108.6	1108.9	1110.1	1109.6	1109.3	1109.6	1110.1
21°	1102.4	1102.7	1103.2	1101.9	1101.7	1101.9	1103.2	1102.7	1102.4	1102.7	1103.2



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CATALOG NUMBER: HCDJBL1525CSD-HCD4TSQMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1081.2	1081.2	1081.5	1080.5	1080.5	1080.5	1081.5	1081.2	1081.2	1081.2	1081.5
23°	1073.8	1073.8	1073.8	1073.1	1072.8	1073.1	1073.8	1073.8	1073.8	1073.8	1073.8
23.5°	1066.4	1066.4	1065.9	1065.4	1065.4	1065.4	1065.9	1066.4	1066.4	1066.4	1065.9
24°	1058.7	1058.7	1058.0	1057.8	1058.2	1057.8	1058.0	1058.7	1058.7	1058.7	1058.0
24.5°	1051.1	1050.8	1049.9	1049.9	1050.6	1049.9	1049.9	1050.8	1051.1	1050.8	1049.9
25°	1043.9	1042.7	1041.5	1041.7	1039.7	1041.7	1041.5	1042.7	1043.9	1042.7	1041.5
25.5°	1035.5	1034.8	1033.1	1033.8	1029.4	1033.8	1033.1	1034.8	1035.5	1034.8	1033.1
26°	1021.5	1026.6	1024.4	1025.9	1019.0	1025.9	1024.4	1026.6	1021.5	1026.6	1024.4
26.5°	1009.6	1018.5	1015.8	1017.5	1003.9	1017.5	1015.8	1018.5	1009.6	1018.5	1015.8
27°	995.3	1010.9	1006.9	1005.9	986.4	1005.9	1006.9	1010.9	995.3	1010.9	1006.9
27.5°	977.5	1000.2	997.8	995.3	970.6	995.3	997.8	1000.2	977.5	1000.2	997.8
28°	958.8	986.2	988.6	983.9	953.1	983.9	988.6	986.2	958.8	986.2	988.6
28.5°	939.8	974.1	979.5	967.9	934.8	967.9	979.5	974.1	939.8	974.1	979.5
29°	919.8	959.0	970.1	951.1	917.0	951.1	970.1	959.0	919.8	959.0	970.1
29.5°	899.5	941.2	960.7	934.8	897.8	934.8	960.7	941.2	899.5	941.2	960.7
30°	878.5	923.0	951.1	917.5	878.3	917.5	951.1	923.0	878.5	923.0	951.1
30.5°	857.1	903.7	941.7	899.5	858.1	899.5	941.7	903.7	857.1	903.7	941.7
31°	834.8	884.5	932.1	881.0	837.3	881.0	932.1	884.5	834.8	884.5	932.1
31.5°	812.4	864.5	922.5	862.5	814.9	862.5	922.5	864.5	812.4	864.5	922.5
32°	789.4	844.2	912.9	843.5	791.9	843.5	912.9	844.2	789.4	844.2	912.9
32.5°	766.0	823.2	903.5	824.0	768.7	824.0	903.5	823.2	766.0	823.2	903.5
33°	742.5	802.3	893.8	803.5	745.7	803.5	893.8	802.3	742.5	802.3	893.8
33.5°	718.8	780.3	882.7	782.5	720.8	782.5	882.7	780.3	718.8	780.3	882.7
34°	695.6	758.1	870.9	760.5	697.1	760.5	870.9	758.1	695.6	758.1	870.9
34.5°	672.2	735.6	857.1	737.8	673.7	737.8	857.1	735.6	672.2	735.6	857.1
35°	649.0	713.1	840.3	714.9	651.2	714.9	840.3	713.1	649.0	713.1	840.3
35.5°	626.3	690.9	822.3	692.4	628.0	692.4	822.3	690.9	626.3	690.9	822.3
36°	603.8	668.2	802.3	669.5	606.3	669.5	802.3	668.2	603.8	668.2	802.3
36.5°	581.1	646.0	780.8	647.0	584.0	647.0	780.8	646.0	581.1	646.0	780.8
37°	558.6	623.8	758.1	624.8	562.1	624.8	758.1	623.8	558.6	623.8	758.1
37.5°	535.9	601.8	735.1	603.3	539.9	603.3	735.1	601.8	535.9	601.8	735.1
38°	513.2	579.9	711.4	581.6	517.6	581.6	711.4	579.9	513.2	579.9	711.4
38.5°	490.2	558.6	688.0	560.6	494.9	560.6	688.0	558.6	490.2	558.6	688.0
39°	468.0	537.1	664.3	539.6	472.7	539.6	664.3	537.1	468.0	537.1	664.3
39.5°	446.1	515.7	640.3	518.9	449.8	518.9	640.3	515.7	446.1	515.7	640.3
40°	423.6	493.9	615.9	497.6	427.8	497.6	615.9	493.9	423.6	493.9	615.9
40.5°	401.6	472.5	591.2	476.2	405.6	476.2	591.2	472.5	401.6	472.5	591.2
41°	380.4	451.2	566.5	454.9	384.1	454.9	566.5	451.2	380.4	451.2	566.5
41.5°	359.2	430.0	541.6	433.7	363.1	433.7	541.6	430.0	359.2	430.0	541.6
42°	338.7	409.3	516.7	412.5	342.9	412.5	516.7	409.3	338.7	409.3	516.7
42.5°	318.4	388.5	492.2	392.0	322.9	392.0	492.2	388.5	318.4	388.5	492.2
43°	298.4	368.3	467.8	371.3	303.1	371.3	467.8	368.3	298.4	368.3	467.8
43.5°	278.4	348.3	443.8	351.8	283.9	351.8	443.8	348.3	278.4	348.3	443.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	221.9	290.5	375.2	294.2	227.8	294.2	375.2	290.5	221.9	290.5	375.2
45.5°	204.6	272.0	353.7	276.2	210.3	276.2	353.7	272.0	204.6	272.0	353.7
46°	188.1	254.0	333.2	258.5	193.5	258.5	333.2	254.0	188.1	254.0	333.2
46.5°	171.3	235.7	313.0	240.7	177.5	240.7	313.0	235.7	171.3	235.7	313.0
47°	155.5	218.5	293.3	223.2	162.4	223.2	293.3	218.5	155.5	218.5	293.3
47.5°	139.7	201.7	274.3	205.9	147.6	205.9	274.3	201.7	139.7	201.7	274.3
48°	125.9	185.6	256.0	189.8	133.3	189.8	256.0	185.6	125.9	185.6	256.0
48.5°	112.6	169.8	238.5	174.5	120.5	174.5	238.5	169.8	112.6	169.8	238.5
49°	101.5	154.3	220.9	159.5	108.6	159.5	220.9	154.3	101.5	154.3	220.9
49.5°	90.8	139.7	204.1	145.1	97.3	145.1	204.1	139.7	90.8	139.7	204.1
50°	80.2	125.9	187.6	131.3	86.2	131.3	187.6	125.9	80.2	125.9	187.6
50.5°	70.1	112.8	172.3	118.5	75.3	118.5	172.3	112.8	70.1	112.8	172.3
51°	60.5	101.5	157.5	106.9	66.2	106.9	157.5	101.5	60.5	101.5	157.5
51.5°	52.6	90.6	143.4	95.5	57.5	95.5	143.4	90.6	52.6	90.6	143.4
52°	44.9	80.0	129.8	84.7	49.4	84.7	129.8	80.0	44.9	80.0	129.8
52.5°	37.8	69.6	117.0	74.3	41.7	74.3	117.0	69.6	37.8	69.6	117.0
53°	31.1	60.2	105.7	65.2	34.6	65.2	105.7	60.2	31.1	60.2	105.7
53.5°	25.7	51.8	94.5	56.8	27.6	56.8	94.5	51.8	25.7	51.8	94.5
54°	20.0	44.2	84.2	48.6	22.0	48.6	84.2	44.2	20.0	44.2	84.2
54.5°	14.6	37.0	74.5	41.0	17.8	41.0	74.5	37.0	14.6	37.0	74.5
55°	10.6	30.9	65.2	33.8	13.6	33.8	65.2	30.9	10.6	30.9	65.2
55.5°	6.7	25.2	56.8	27.2	9.4	27.2	56.8	25.2	6.7	25.2	56.8
56°	4.4	19.7	48.6	21.2	5.2	21.2	48.6	19.7	4.4	19.7	48.6
56.5°	3.5	14.3	41.7	16.3	3.2	16.3	41.7	14.3	3.5	14.3	41.7
57°	2.5	9.4	35.5	11.8	2.7	11.8	35.5	9.4	2.5	9.4	35.5
57.5°	2.5	5.9	29.9	7.9	2.5	7.9	29.9	5.9	2.5	5.9	29.9
58°	2.2	3.7	24.9	5.2	2.5	5.2	24.9	3.7	2.2	3.7	24.9
58.5°	2.2	2.5	20.7	3.7	2.2	3.7	20.7	2.5	2.2	2.5	20.7
59°	2.0	2.0	16.8	2.7	2.2	2.7	16.8	2.0	2.0	2.0	16.8
59.5°	2.0	2.0	13.6	2.0	2.2	2.0	13.6	2.0	2.0	2.0	13.6
60°	2.0	2.0	10.9	2.0	2.0	2.0	10.9	2.0	2.0	2.0	10.9
60.5°	1.7	1.7	8.4	2.0	2.0	2.0	8.4	1.7	1.7	1.7	8.4
61°	1.7	1.7	6.7	1.7	2.0	1.7	6.7	1.7	1.7	1.7	6.7
61.5°	1.7	1.7	4.9	1.7	1.7	1.7	4.9	1.7	1.7	1.7	4.9
62°	1.5	1.5	3.7	1.7	1.7	1.7	3.7	1.5	1.5	1.5	3.7
62.5°	1.5	1.5	2.7	1.5	1.7	1.5	2.7	1.5	1.5	1.5	2.7
63°	1.5	1.5	2.0	1.5	1.5	1.5	2.0	1.5	1.5	1.5	2.0
63.5°	1.5	1.2	1.5	1.5	1.5	1.5	1.5	1.2	1.5	1.2	1.5
64°	1.2	1.2	1.2	1.2	1.5	1.2	1.2	1.2	1.2	1.2	1.2
64.5°	1.2	1.2	1.0	1.2	1.5	1.2	1.0	1.2	1.2	1.2	1.0
65°	1.2	1.2	1.0	1.2	1.2	1.2	1.0	1.2	1.2	1.2	1.0
65.5°	1.2	1.0	1.0	1.2	1.2	1.2	1.0	1.0	1.2	1.0	1.0
66°	1.2	1.0	0.7	1.0	1.2	1.0	0.7	1.0	1.2	1.0	0.7



TEST NUMBER: P776016

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.0	1.0	0.7	1.0	1.0	1.0	0.7	1.0	1.0	1.0	0.7
68°	1.0	0.7	0.7	1.0	1.0	1.0	0.7	0.7	1.0	0.7	0.7
68.5°	1.0	0.7	0.5	0.7	1.0	0.7	0.5	0.7	1.0	0.7	0.5
69°	0.7	0.7	0.5	0.7	1.0	0.7	0.5	0.7	0.7	0.7	0.5
69.5°	0.7	0.7	0.5	0.7	1.0	0.7	0.5	0.7	0.7	0.7	0.5
70°	0.7	0.7	0.5	0.7	0.7	0.7	0.5	0.7	0.7	0.7	0.5
70.5°	0.7	0.7	0.5	0.7	0.7	0.7	0.5	0.7	0.7	0.7	0.5
71°	0.7	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.7	0.5	0.5
71.5°	0.7	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.7	0.5	0.5
72°	0.7	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.7	0.5	0.5
72.5°	0.5	0.5	0.2	0.5	0.7	0.5	0.2	0.5	0.5	0.5	0.2
73°	0.5	0.5	0.2	0.5	0.7	0.5	0.2	0.5	0.5	0.5	0.2
73.5°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
74°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
74.5°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
75°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
75.5°	0.5	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.5	0.2	0.2
76°	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.5	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
79.5°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
80°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
80.5°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
81°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
81.5°	0.2	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.2	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.2	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: P776016
CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K

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: P776016

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4
0.5°	1244.4	1245.1	1244.4	1244.1	1244.1	1244.1
1°	1244.1	1244.9	1244.1	1243.9	1243.9	1243.9
1.5°	1243.6	1244.4	1243.6	1243.6	1243.6	1243.4
2°	1243.1	1243.9	1243.1	1243.1	1242.9	1242.9
2.5°	1242.6	1243.1	1242.6	1242.4	1242.1	1242.1
3°	1241.7	1242.4	1241.7	1241.7	1241.4	1241.4
3.5°	1240.7	1241.4	1240.7	1240.7	1240.4	1240.4
4°	1239.7	1240.2	1239.7	1239.4	1239.4	1239.4
4.5°	1238.2	1238.9	1238.2	1238.2	1238.2	1238.2
5°	1236.7	1237.5	1236.7	1236.7	1236.7	1236.7
5.5°	1235.2	1235.7	1235.2	1235.2	1235.0	1235.0
6°	1233.5	1234.0	1233.5	1233.3	1233.3	1233.3
6.5°	1231.5	1232.0	1231.5	1231.5	1231.3	1231.3
7°	1229.6	1230.1	1229.6	1229.3	1229.3	1229.3
7.5°	1227.1	1227.8	1227.1	1227.1	1227.1	1227.1
8°	1224.9	1225.4	1224.9	1224.9	1224.6	1224.6
8.5°	1222.2	1222.6	1222.2	1222.2	1222.2	1222.2
9°	1219.4	1219.9	1219.4	1219.4	1219.4	1219.4
9.5°	1216.5	1217.0	1216.5	1216.5	1216.5	1216.5
10°	1213.5	1214.0	1213.5	1213.5	1213.5	1213.5
10.5°	1210.1	1210.8	1210.1	1210.3	1210.3	1210.3
11°	1206.9	1207.3	1206.9	1207.1	1206.9	1206.9
11.5°	1203.1	1203.6	1203.1	1203.4	1203.4	1203.4
12°	1199.4	1199.9	1199.4	1199.7	1199.7	1199.7
12.5°	1195.5	1195.7	1195.5	1195.7	1195.7	1195.5
13°	1191.3	1191.8	1191.3	1191.8	1191.8	1191.5
13.5°	1187.1	1187.6	1187.1	1187.6	1187.3	1187.3
14°	1182.7	1182.9	1182.7	1183.2	1183.2	1182.9
14.5°	1178.2	1178.2	1178.2	1178.7	1178.5	1178.2
15°	1173.3	1173.5	1173.3	1173.8	1173.8	1173.3
15.5°	1168.3	1168.3	1168.3	1168.8	1168.8	1168.3
16°	1163.2	1163.2	1163.2	1163.9	1163.7	1163.2
16.5°	1158.0	1157.7	1158.0	1158.7	1158.2	1158.0
17°	1152.3	1152.3	1152.3	1153.3	1152.8	1152.5
17.5°	1146.6	1146.6	1146.6	1147.6	1147.1	1146.6
18°	1140.9	1140.7	1140.9	1141.7	1141.2	1140.9
18.5°	1134.8	1134.5	1134.8	1135.8	1135.3	1135.0
19°	1128.6	1128.1	1128.6	1129.6	1129.1	1128.6
19.5°	1122.2	1121.9	1122.2	1123.2	1122.7	1122.4
20°	1115.5	1115.3	1115.5	1116.7	1116.3	1115.8
20.5°	1108.9	1108.6	1108.9	1110.1	1109.6	1109.3
21°	1101.9	1101.7	1101.9	1103.2	1102.7	1102.4

TEST NUMBER: P776016

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1080.5	1080.5	1080.5	1081.5	1081.2	1081.2
23°	1073.1	1072.8	1073.1	1073.8	1073.8	1073.8
23.5°	1065.4	1065.4	1065.4	1065.9	1066.4	1066.4
24°	1057.8	1058.2	1057.8	1058.0	1058.7	1058.7
24.5°	1049.9	1050.6	1049.9	1049.9	1050.8	1051.1
25°	1041.7	1039.7	1041.7	1041.5	1042.7	1043.9
25.5°	1033.8	1029.4	1033.8	1033.1	1034.8	1035.5
26°	1025.9	1019.0	1025.9	1024.4	1026.6	1021.5
26.5°	1017.5	1003.9	1017.5	1015.8	1018.5	1009.6
27°	1005.9	986.4	1005.9	1006.9	1010.9	995.3
27.5°	995.3	970.6	995.3	997.8	1000.2	977.5
28°	983.9	953.1	983.9	988.6	986.2	958.8
28.5°	967.9	934.8	967.9	979.5	974.1	939.8
29°	951.1	917.0	951.1	970.1	959.0	919.8
29.5°	934.8	897.8	934.8	960.7	941.2	899.5
30°	917.5	878.3	917.5	951.1	923.0	878.5
30.5°	899.5	858.1	899.5	941.7	903.7	857.1
31°	881.0	837.3	881.0	932.1	884.5	834.8
31.5°	862.5	814.9	862.5	922.5	864.5	812.4
32°	843.5	791.9	843.5	912.9	844.2	789.4
32.5°	824.0	768.7	824.0	903.5	823.2	766.0
33°	803.5	745.7	803.5	893.8	802.3	742.5
33.5°	782.5	720.8	782.5	882.7	780.3	718.8
34°	760.5	697.1	760.5	870.9	758.1	695.6
34.5°	737.8	673.7	737.8	857.1	735.6	672.2
35°	714.9	651.2	714.9	840.3	713.1	649.0
35.5°	692.4	628.0	692.4	822.3	690.9	626.3
36°	669.5	606.3	669.5	802.3	668.2	603.8
36.5°	647.0	584.0	647.0	780.8	646.0	581.1
37°	624.8	562.1	624.8	758.1	623.8	558.6
37.5°	603.3	539.9	603.3	735.1	601.8	535.9
38°	581.6	517.6	581.6	711.4	579.9	513.2
38.5°	560.6	494.9	560.6	688.0	558.6	490.2
39°	539.6	472.7	539.6	664.3	537.1	468.0
39.5°	518.9	449.8	518.9	640.3	515.7	446.1
40°	497.6	427.8	497.6	615.9	493.9	423.6
40.5°	476.2	405.6	476.2	591.2	472.5	401.6
41°	454.9	384.1	454.9	566.5	451.2	380.4
41.5°	433.7	363.1	433.7	541.6	430.0	359.2
42°	412.5	342.9	412.5	516.7	409.3	338.7
42.5°	392.0	322.9	392.0	492.2	388.5	318.4
43°	371.3	303.1	371.3	467.8	368.3	298.4
43.5°	351.8	283.9	351.8	443.8	348.3	278.4



TEST NUMBER: P776016

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	294.2	227.8	294.2	375.2	290.5	221.9
45.5°	276.2	210.3	276.2	353.7	272.0	204.6
46°	258.5	193.5	258.5	333.2	254.0	188.1
46.5°	240.7	177.5	240.7	313.0	235.7	171.3
47°	223.2	162.4	223.2	293.3	218.5	155.5
47.5°	205.9	147.6	205.9	274.3	201.7	139.7
48°	189.8	133.3	189.8	256.0	185.6	125.9
48.5°	174.5	120.5	174.5	238.5	169.8	112.6
49°	159.5	108.6	159.5	220.9	154.3	101.5
49.5°	145.1	97.3	145.1	204.1	139.7	90.8
50°	131.3	86.2	131.3	187.6	125.9	80.2
50.5°	118.5	75.3	118.5	172.3	112.8	70.1
51°	106.9	66.2	106.9	157.5	101.5	60.5
51.5°	95.5	57.5	95.5	143.4	90.6	52.6
52°	84.7	49.4	84.7	129.8	80.0	44.9
52.5°	74.3	41.7	74.3	117.0	69.6	37.8
53°	65.2	34.6	65.2	105.7	60.2	31.1
53.5°	56.8	27.6	56.8	94.5	51.8	25.7
54°	48.6	22.0	48.6	84.2	44.2	20.0
54.5°	41.0	17.8	41.0	74.5	37.0	14.6
55°	33.8	13.6	33.8	65.2	30.9	10.6
55.5°	27.2	9.4	27.2	56.8	25.2	6.7
56°	21.2	5.2	21.2	48.6	19.7	4.4
56.5°	16.3	3.2	16.3	41.7	14.3	3.5
57°	11.8	2.7	11.8	35.5	9.4	2.5
57.5°	7.9	2.5	7.9	29.9	5.9	2.5
58°	5.2	2.5	5.2	24.9	3.7	2.2
58.5°	3.7	2.2	3.7	20.7	2.5	2.2
59°	2.7	2.2	2.7	16.8	2.0	2.0
59.5°	2.0	2.2	2.0	13.6	2.0	2.0
60°	2.0	2.0	2.0	10.9	2.0	2.0
60.5°	2.0	2.0	2.0	8.4	1.7	1.7
61°	1.7	2.0	1.7	6.7	1.7	1.7
61.5°	1.7	1.7	1.7	4.9	1.7	1.7
62°	1.7	1.7	1.7	3.7	1.5	1.5
62.5°	1.5	1.7	1.5	2.7	1.5	1.5
63°	1.5	1.5	1.5	2.0	1.5	1.5
63.5°	1.5	1.5	1.5	1.5	1.2	1.5
64°	1.2	1.5	1.2	1.2	1.2	1.2
64.5°	1.2	1.5	1.2	1.0	1.2	1.2
65°	1.2	1.2	1.2	1.0	1.2	1.2
65.5°	1.2	1.2	1.2	1.0	1.0	1.2
66°	1.0	1.2	1.0	0.7	1.0	1.2



TEST NUMBER: P776016

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.0	1.0	1.0	0.7	1.0	1.0
68°	1.0	1.0	1.0	0.7	0.7	1.0
68.5°	0.7	1.0	0.7	0.5	0.7	1.0
69°	0.7	1.0	0.7	0.5	0.7	0.7
69.5°	0.7	1.0	0.7	0.5	0.7	0.7
70°	0.7	0.7	0.7	0.5	0.7	0.7
70.5°	0.7	0.7	0.7	0.5	0.7	0.7
71°	0.7	0.7	0.7	0.5	0.5	0.7
71.5°	0.5	0.7	0.5	0.5	0.5	0.7
72°	0.5	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.7	0.5	0.2	0.5	0.5
73°	0.5	0.7	0.5	0.2	0.5	0.5
73.5°	0.5	0.5	0.5	0.2	0.5	0.5
74°	0.5	0.5	0.5	0.2	0.5	0.5
74.5°	0.5	0.5	0.5	0.2	0.5	0.5
75°	0.5	0.5	0.5	0.2	0.5	0.5
75.5°	0.5	0.5	0.5	0.2	0.2	0.5
76°	0.2	0.5	0.2	0.2	0.2	0.5
76.5°	0.2	0.5	0.2	0.2	0.2	0.2
77°	0.2	0.5	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.0	0.2	0.2
79.5°	0.2	0.2	0.2	0.0	0.2	0.2
80°	0.2	0.2	0.2	0.0	0.2	0.2
80.5°	0.2	0.2	0.2	0.0	0.2	0.2
81°	0.2	0.2	0.2	0.0	0.2	0.2
81.5°	0.2	0.2	0.2	0.0	0.0	0.2
82°	0.0	0.2	0.0	0.0	0.0	0.0
82.5°	0.0	0.2	0.0	0.0	0.0	0.0
83°	0.0	0.2	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: P776016

CATALOG NUMBER: HCDJBL1525CSD-HCD4TSQMB-2500lm-3000K

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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report





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

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Scaled Data Report





21.5°	1095.5	1095.8	1096.0	1095.0	1094.8	1095.0	1096.0	1095.8	1095.5	1095.8	1096.0
22°	1088.4	1088.6	1088.9	1087.6	1087.6	1087.6	1088.9	1088.6	1088.4	1088.6	1088.9



44°	259.2	328.6	420.1	332.0	264.6	332.0	420.1	328.6	259.2	328.6	420.1
44.5°	240.4	309.5	397.4	313.0	245.9	313.0	397.4	309.5	240.4	309.5	397.4



66.5°	1.0	1.0	0.7	1.0	1.2	1.0	0.7	1.0	1.0	1.0	0.7
67°	1.0	1.0	0.7	1.0	1.0	1.0	0.7	1.0	1.0	1.0	0.7



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°	1095.0	1094.8	1095.0	1096.0	1095.8	1095.5
22°	1087.6	1087.6	1087.6	1088.9	1088.6	1088.4



44°	332.0	264.6	332.0	420.1	328.6	259.2
44.5°	313.0	245.9	313.0	397.4	309.5	240.4

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66.5°	1.0	1.2	1.0	0.7	1.0	1.0
67°	1.0	1.0	1.0	0.7	1.0	1.0

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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)