

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: P776053

Luminaire Tested: HCDJBS1525CSD-HCD62TRC-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B055-HCD62TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD62TRC-2500lm-4000K
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

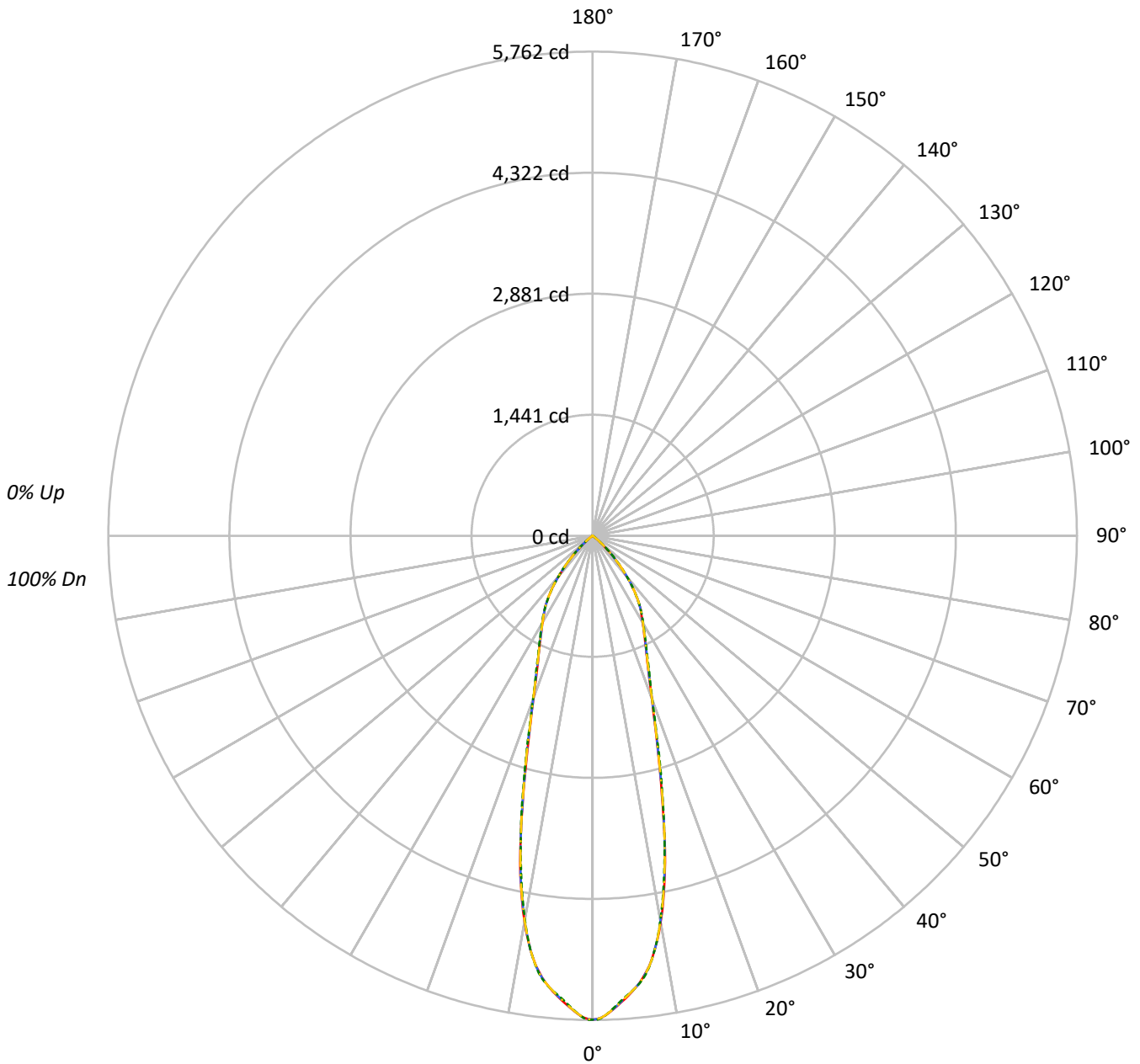
Lumens per Lamp: N/A
Luminaire Lumens: 2947.8 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82	82	82	82	82	82		
	4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57	57	57	57	57	57		
	10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55	55	55	55	55	55		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	315687	315687	315687	315687
5°	299421	299086	299421	299086
10°	259698	258206	259698	258206
15°	180631	182754	180631	182754
20°	119874	121151	119874	121151
25°	91118	92413	91118	92413
30°	75341	76259	75341	76259
35°	63055	63108	63055	63108
40°	44906	45621	44906	45621
45°	25181	26429	25181	26429
50°	8571	10200	8571	10200
55°	612	1309	612	1309
60°	110	110	110	110
65°	65	65	65	65
70°	48	48	48	48
75°	64	64	64	64
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 26429 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.6	16.8
10°-20°	883.8	30.0
20°-30°	705.7	23.9
30°-40°	577.7	19.6
40°-50°	260.9	8.9
50°-60°	22.3	0.8
60°-70°	0.5	0.0
70°-80°	0.2	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°	2086.1	70.8
0°-40°	2663.8	90.4
0°-60°	2947.0	100.0
0°-90°	2947.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5759	5759	5759	5759	5759	
5°	5441	5435	5441	5435	5441	497
15°	3183	3220	3183	3220	3183	882
25°	1506	1528	1506	1528	1506	702
35°	942	943	942	943	942	576
45°	325	341	325	341	325	256
55°	6	14	6	14	6	20
65°	0	0	0	0	0	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°	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6
0.5°	5751.7	5751.7	5751.7	5752.7	5761.6	5752.7	5751.7	5751.7	5751.7	5751.7	5751.7
1°	5736.4	5736.4	5735.7	5735.9	5742.0	5735.9	5735.7	5736.4	5736.4	5736.4	5735.7
1.5°	5711.5	5711.2	5709.2	5707.9	5711.8	5707.9	5709.2	5711.2	5711.5	5711.2	5709.2
2°	5680.0	5678.4	5675.6	5672.6	5673.1	5672.6	5675.6	5678.4	5680.0	5678.4	5675.6
2.5°	5642.3	5641.3	5637.2	5632.1	5630.6	5632.1	5637.2	5641.3	5642.3	5641.3	5637.2
3°	5602.6	5601.4	5596.8	5589.9	5587.1	5589.9	5596.8	5601.4	5602.6	5601.4	5596.8
3.5°	5562.9	5561.2	5555.8	5549.0	5545.4	5549.0	5555.8	5561.2	5562.9	5561.2	5555.8
4°	5523.5	5520.7	5515.6	5510.3	5506.7	5510.3	5515.6	5520.7	5523.5	5520.7	5515.6
4.5°	5482.8	5480.3	5476.5	5472.9	5470.1	5472.9	5476.5	5480.3	5482.8	5480.3	5476.5
5°	5441.1	5439.3	5437.0	5435.5	5435.0	5435.5	5437.0	5439.3	5441.1	5439.3	5437.0
5.5°	5396.1	5395.1	5395.1	5396.1	5398.1	5396.1	5395.1	5395.1	5396.1	5395.1	5395.1
6°	5347.2	5347.2	5348.8	5352.8	5355.1	5352.8	5348.8	5347.2	5347.2	5347.2	5348.8
6.5°	5292.8	5294.1	5297.1	5301.4	5304.5	5301.4	5297.1	5294.1	5292.8	5294.1	5297.1
7°	5231.0	5233.5	5236.3	5240.9	5244.5	5240.9	5236.3	5233.5	5231.0	5233.5	5236.3
7.5°	5161.0	5162.0	5165.6	5168.9	5171.0	5168.9	5165.6	5162.0	5161.0	5162.0	5165.6
8°	5081.2	5081.7	5083.7	5085.7	5086.8	5085.7	5083.7	5081.7	5081.2	5081.7	5083.7
8.5°	4989.8	4989.8	4990.1	4989.6	4987.8	4989.6	4990.1	4989.8	4989.8	4989.8	4990.1
9°	4889.9	4889.6	4887.3	4883.8	4882.2	4883.8	4887.3	4889.6	4889.9	4889.6	4887.3
9.5°	4781.0	4780.2	4774.4	4769.3	4765.2	4769.3	4774.4	4780.2	4781.0	4780.2	4774.4
10°	4665.3	4662.7	4654.3	4644.9	4638.5	4644.9	4654.3	4662.7	4665.3	4662.7	4654.3
10.5°	4542.1	4536.8	4527.4	4515.9	4506.8	4515.9	4527.4	4536.8	4542.1	4536.8	4527.4
11°	4410.6	4406.0	4393.8	4384.4	4376.0	4384.4	4393.8	4406.0	4410.6	4406.0	4393.8
11.5°	4274.3	4270.2	4259.8	4246.0	4239.4	4246.0	4259.8	4270.2	4274.3	4270.2	4259.8
12°	4133.1	4129.8	4117.1	4104.4	4095.7	4104.4	4117.1	4129.8	4133.1	4129.8	4117.1
12.5°	3984.8	3979.2	3969.0	3956.8	3949.2	3956.8	3969.0	3979.2	3984.8	3979.2	3969.0
13°	3829.6	3826.8	3817.4	3810.3	3805.7	3810.3	3817.4	3826.8	3829.6	3826.8	3817.4
13.5°	3663.3	3665.3	3663.0	3660.5	3658.2	3660.5	3663.0	3665.3	3663.3	3665.3	3663.0
14°	3498.9	3502.5	3505.3	3508.9	3511.7	3508.9	3505.3	3502.5	3498.9	3502.5	3505.3
14.5°	3336.1	3341.7	3351.1	3360.3	3366.9	3360.3	3351.1	3341.7	3336.1	3341.7	3351.1
15°	3182.7	3187.3	3200.0	3212.0	3220.1	3212.0	3200.0	3187.3	3182.7	3187.3	3200.0
15.5°	3037.8	3043.9	3055.1	3068.3	3078.2	3068.3	3055.1	3043.9	3037.8	3043.9	3055.1
16°	2903.2	2907.0	2916.9	2932.7	2944.1	2932.7	2916.9	2907.0	2903.2	2907.0	2916.9
16.5°	2774.2	2777.3	2789.2	2803.5	2814.4	2803.5	2789.2	2777.3	2774.2	2777.3	2789.2
17°	2650.8	2654.2	2664.8	2679.1	2690.5	2679.1	2664.8	2654.2	2650.8	2654.2	2664.8
17.5°	2533.8	2537.1	2547.6	2559.3	2569.4	2559.3	2547.6	2537.1	2533.8	2537.1	2547.6
18°	2424.7	2427.5	2434.6	2445.8	2456.0	2445.8	2434.6	2427.5	2424.7	2427.5	2434.6
18.5°	2322.5	2323.2	2330.3	2344.1	2347.1	2344.1	2330.3	2323.2	2322.5	2323.2	2330.3
19°	2224.3	2226.3	2236.7	2249.7	2250.2	2249.7	2236.7	2226.3	2224.3	2226.3	2236.7
19.5°	2133.4	2139.0	2148.5	2159.7	2160.7	2159.7	2148.5	2139.0	2133.4	2139.0	2148.5
20°	2054.8	2056.1	2064.0	2075.5	2076.7	2075.5	2064.0	2056.1	2054.8	2056.1	2064.0
20.5°	1979.6	1981.6	1985.7	1995.8	1998.4	1995.8	1985.7	1981.6	1979.6	1981.6	1985.7
21°	1906.8	1910.1	1919.3	1925.4	1928.9	1925.4	1919.3	1910.1	1906.8	1910.1	1919.3



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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°	1727.2	1729.2	1740.4	1750.6	1760.3	1750.6	1740.4	1729.2	1727.2	1729.2	1740.4
23°	1677.6	1679.6	1686.8	1699.0	1709.9	1699.0	1686.8	1679.6	1677.6	1679.6	1686.8
23.5°	1630.8	1632.3	1639.2	1648.4	1660.6	1648.4	1639.2	1632.3	1630.8	1632.3	1639.2
24°	1586.5	1588.1	1594.2	1603.8	1612.0	1603.8	1594.2	1588.1	1586.5	1588.1	1594.2
24.5°	1545.6	1546.4	1551.2	1561.6	1568.2	1561.6	1551.2	1546.4	1545.6	1546.4	1551.2
25°	1506.4	1507.2	1511.0	1521.7	1527.8	1521.7	1511.0	1507.2	1506.4	1507.2	1511.0
25.5°	1468.8	1469.3	1473.3	1483.5	1489.1	1483.5	1473.3	1469.3	1468.8	1469.3	1473.3
26°	1432.6	1433.2	1437.0	1447.1	1452.7	1447.1	1437.0	1433.2	1432.6	1433.2	1437.0
26.5°	1397.3	1398.0	1401.6	1411.3	1416.9	1411.3	1401.6	1398.0	1397.3	1398.0	1401.6
27°	1364.2	1365.0	1368.0	1377.4	1383.8	1377.4	1368.0	1365.0	1364.2	1365.0	1368.0
27.5°	1332.9	1333.4	1336.2	1344.9	1351.0	1344.9	1336.2	1333.4	1332.9	1333.4	1336.2
28°	1302.7	1302.9	1306.0	1313.9	1319.4	1313.9	1306.0	1302.9	1302.7	1302.9	1306.0
28.5°	1273.4	1273.4	1276.5	1283.6	1289.4	1283.6	1276.5	1273.4	1273.4	1273.4	1276.5
29°	1245.2	1244.9	1247.5	1254.6	1259.9	1254.6	1247.5	1244.9	1245.2	1244.9	1247.5
29.5°	1216.9	1216.9	1220.0	1226.1	1231.4	1226.1	1220.0	1216.9	1216.9	1216.9	1220.0
30°	1190.2	1190.2	1193.3	1199.1	1204.7	1199.1	1193.3	1190.2	1190.2	1190.2	1193.3
30.5°	1164.5	1164.5	1167.3	1172.9	1178.3	1172.9	1167.3	1164.5	1164.5	1164.5	1167.3
31°	1140.1	1139.9	1143.2	1148.3	1153.6	1148.3	1143.2	1139.9	1140.1	1139.9	1143.2
31.5°	1116.7	1116.2	1119.0	1123.6	1128.9	1123.6	1119.0	1116.2	1116.7	1116.2	1119.0
32°	1094.3	1093.8	1096.4	1100.2	1104.0	1100.2	1096.4	1093.8	1094.3	1093.8	1096.4
32.5°	1071.9	1071.7	1072.7	1075.8	1078.3	1075.8	1072.7	1071.7	1071.9	1071.7	1072.7
33°	1048.8	1048.0	1048.0	1050.3	1052.6	1050.3	1048.0	1048.0	1048.8	1048.0	1048.0
33.5°	1024.1	1022.8	1023.1	1024.1	1027.4	1024.1	1023.1	1022.8	1024.1	1022.8	1023.1
34°	997.9	996.6	996.6	995.9	999.4	995.9	996.6	996.6	997.9	996.6	996.6
34.5°	970.7	969.2	969.7	968.7	971.7	968.7	969.7	969.2	970.7	969.2	969.7
35°	942.2	941.7	941.4	941.4	943.0	941.4	941.4	941.7	942.2	941.7	941.4
35.5°	913.2	912.4	912.2	913.7	913.7	913.7	912.2	912.4	913.2	912.4	912.2
36°	883.4	883.2	883.2	885.0	883.7	885.0	883.2	883.2	883.4	883.2	883.2
36.5°	852.4	853.4	853.4	856.0	853.9	856.0	853.4	853.4	852.4	853.4	853.4
37°	821.1	822.7	823.7	826.0	823.4	826.0	823.7	822.7	821.1	822.7	823.7
37.5°	790.3	791.4	794.7	795.2	793.1	795.2	794.7	791.4	790.3	791.4	794.7
38°	759.3	759.6	763.6	763.1	762.9	763.1	763.6	759.6	759.3	759.6	763.6
38.5°	727.8	727.3	732.1	730.8	731.8	730.8	732.1	727.3	727.8	727.3	732.1
39°	694.7	695.2	700.6	698.3	701.1	698.3	700.6	695.2	694.7	695.2	700.6
39.5°	661.1	662.6	668.8	666.2	669.3	666.2	668.8	662.6	661.1	662.6	668.8
40°	627.5	630.3	636.7	634.4	637.5	634.4	636.7	630.3	627.5	630.3	636.7
40.5°	595.5	598.3	604.1	603.6	605.7	603.6	604.1	598.3	595.5	598.3	604.1
41°	564.0	566.5	571.6	572.6	573.9	572.6	571.6	566.5	564.0	566.5	571.6
41.5°	532.9	535.2	539.0	542.3	542.8	542.3	539.0	535.2	532.9	535.2	539.0
42°	502.1	503.9	507.0	511.8	512.3	511.8	507.0	503.9	502.1	503.9	507.0
42.5°	472.1	473.4	475.4	481.8	483.1	481.8	475.4	473.4	472.1	473.4	475.4
43°	441.9	442.9	444.4	451.5	453.8	451.5	444.4	442.9	441.9	442.9	444.4
43.5°	412.1	412.3	414.4	421.5	424.8	421.5	414.4	412.3	412.1	412.3	414.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	324.8	325.6	329.2	336.8	340.9	336.8	329.2	325.6	324.8	325.6	329.2
45.5°	297.9	298.9	302.5	310.3	313.9	310.3	302.5	298.9	297.9	298.9	302.5
46°	272.4	272.7	276.5	283.9	288.0	283.9	276.5	272.7	272.4	272.7	276.5
46.5°	247.3	247.8	251.1	257.9	263.0	257.9	251.1	247.8	247.3	247.8	251.1
47°	222.8	223.3	227.2	233.8	238.9	233.8	227.2	223.3	222.8	223.3	227.2
47.5°	198.7	200.2	204.8	210.4	216.5	210.4	204.8	200.2	198.7	200.2	204.8
48°	176.8	177.8	183.2	188.7	194.1	188.7	183.2	177.8	176.8	177.8	183.2
48.5°	155.7	156.7	162.5	168.4	174.0	168.4	162.5	156.7	155.7	156.7	162.5
49°	136.1	137.1	143.2	149.1	155.7	149.1	143.2	137.1	136.1	137.1	143.2
49.5°	117.5	119.6	125.2	131.0	137.6	131.0	125.2	119.6	117.5	119.6	125.2
50°	100.5	102.8	108.6	114.0	119.6	114.0	108.6	102.8	100.5	102.8	108.6
50.5°	84.7	88.3	93.4	97.9	101.5	97.9	93.4	88.3	84.7	88.3	93.4
51°	71.0	74.5	79.1	82.9	85.0	82.9	79.1	74.5	71.0	74.5	79.1
51.5°	59.8	62.3	65.6	69.7	71.2	69.7	65.6	62.3	59.8	62.3	65.6
52°	49.6	51.9	54.4	58.0	58.8	58.0	54.4	51.9	49.6	51.9	54.4
52.5°	40.7	41.7	44.8	47.8	47.3	47.8	44.8	41.7	40.7	41.7	44.8
53°	31.8	33.6	35.6	38.2	37.6	38.2	35.6	33.6	31.8	33.6	35.6
53.5°	22.9	25.4	27.5	29.3	29.0	29.3	27.5	25.4	22.9	25.4	27.5
54°	16.5	17.6	19.8	22.1	23.9	22.1	19.8	17.6	16.5	17.6	19.8
54.5°	10.4	11.7	14.2	15.8	18.8	15.8	14.2	11.7	10.4	11.7	14.2
55°	6.4	7.4	9.7	10.9	13.7	10.9	9.7	7.4	6.4	7.4	9.7
55.5°	4.6	4.6	5.6	6.9	8.9	6.9	5.6	4.6	4.6	4.6	5.6
56°	3.3	3.1	3.6	4.3	4.6	4.3	3.6	3.1	3.3	3.1	3.6
56.5°	2.3	2.0	2.5	3.3	2.5	3.3	2.5	2.0	2.3	2.0	2.5
57°	1.3	1.8	1.8	2.3	1.5	2.3	1.8	1.8	1.3	1.8	1.8
57.5°	1.3	1.3	1.3	1.8	1.3	1.8	1.3	1.3	1.3	1.3	1.3
58°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
58.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
59°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
59.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
61°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
61.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
63°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
63.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776053

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5
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	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
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: P776053
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-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: P776053

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6
0.5°	5752.7	5761.6	5752.7	5751.7	5751.7	5751.7
1°	5735.9	5742.0	5735.9	5735.7	5736.4	5736.4
1.5°	5707.9	5711.8	5707.9	5709.2	5711.2	5711.5
2°	5672.6	5673.1	5672.6	5675.6	5678.4	5680.0
2.5°	5632.1	5630.6	5632.1	5637.2	5641.3	5642.3
3°	5589.9	5587.1	5589.9	5596.8	5601.4	5602.6
3.5°	5549.0	5545.4	5549.0	5555.8	5561.2	5562.9
4°	5510.3	5506.7	5510.3	5515.6	5520.7	5523.5
4.5°	5472.9	5470.1	5472.9	5476.5	5480.3	5482.8
5°	5435.5	5435.0	5435.5	5437.0	5439.3	5441.1
5.5°	5396.1	5398.1	5396.1	5395.1	5395.1	5396.1
6°	5352.8	5355.1	5352.8	5348.8	5347.2	5347.2
6.5°	5301.4	5304.5	5301.4	5297.1	5294.1	5292.8
7°	5240.9	5244.5	5240.9	5236.3	5233.5	5231.0
7.5°	5168.9	5171.0	5168.9	5165.6	5162.0	5161.0
8°	5085.7	5086.8	5085.7	5083.7	5081.7	5081.2
8.5°	4989.6	4987.8	4989.6	4990.1	4989.8	4989.8
9°	4883.8	4882.2	4883.8	4887.3	4889.6	4889.9
9.5°	4769.3	4765.2	4769.3	4774.4	4780.2	4781.0
10°	4644.9	4638.5	4644.9	4654.3	4662.7	4665.3
10.5°	4515.9	4506.8	4515.9	4527.4	4536.8	4542.1
11°	4384.4	4376.0	4384.4	4393.8	4406.0	4410.6
11.5°	4246.0	4239.4	4246.0	4259.8	4270.2	4274.3
12°	4104.4	4095.7	4104.4	4117.1	4129.8	4133.1
12.5°	3956.8	3949.2	3956.8	3969.0	3979.2	3984.8
13°	3810.3	3805.7	3810.3	3817.4	3826.8	3829.6
13.5°	3660.5	3658.2	3660.5	3663.0	3665.3	3663.3
14°	3508.9	3511.7	3508.9	3505.3	3502.5	3498.9
14.5°	3360.3	3366.9	3360.3	3351.1	3341.7	3336.1
15°	3212.0	3220.1	3212.0	3200.0	3187.3	3182.7
15.5°	3068.3	3078.2	3068.3	3055.1	3043.9	3037.8
16°	2932.7	2944.1	2932.7	2916.9	2907.0	2903.2
16.5°	2803.5	2814.4	2803.5	2789.2	2777.3	2774.2
17°	2679.1	2690.5	2679.1	2664.8	2654.2	2650.8
17.5°	2559.3	2569.4	2559.3	2547.6	2537.1	2533.8
18°	2445.8	2456.0	2445.8	2434.6	2427.5	2424.7
18.5°	2344.1	2347.1	2344.1	2330.3	2323.2	2322.5
19°	2249.7	2250.2	2249.7	2236.7	2226.3	2224.3
19.5°	2159.7	2160.7	2159.7	2148.5	2139.0	2133.4
20°	2075.5	2076.7	2075.5	2064.0	2056.1	2054.8
20.5°	1995.8	1998.4	1995.8	1985.7	1981.6	1979.6
21°	1925.4	1928.9	1925.4	1919.3	1910.1	1906.8



TEST NUMBER: P776053

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1750.6	1760.3	1750.6	1740.4	1729.2	1727.2
23°	1699.0	1709.9	1699.0	1686.8	1679.6	1677.6
23.5°	1648.4	1660.6	1648.4	1639.2	1632.3	1630.8
24°	1603.8	1612.0	1603.8	1594.2	1588.1	1586.5
24.5°	1561.6	1568.2	1561.6	1551.2	1546.4	1545.6
25°	1521.7	1527.8	1521.7	1511.0	1507.2	1506.4
25.5°	1483.5	1489.1	1483.5	1473.3	1469.3	1468.8
26°	1447.1	1452.7	1447.1	1437.0	1433.2	1432.6
26.5°	1411.3	1416.9	1411.3	1401.6	1398.0	1397.3
27°	1377.4	1383.8	1377.4	1368.0	1365.0	1364.2
27.5°	1344.9	1351.0	1344.9	1336.2	1333.4	1332.9
28°	1313.9	1319.4	1313.9	1306.0	1302.9	1302.7
28.5°	1283.6	1289.4	1283.6	1276.5	1273.4	1273.4
29°	1254.6	1259.9	1254.6	1247.5	1244.9	1245.2
29.5°	1226.1	1231.4	1226.1	1220.0	1216.9	1216.9
30°	1199.1	1204.7	1199.1	1193.3	1190.2	1190.2
30.5°	1172.9	1178.3	1172.9	1167.3	1164.5	1164.5
31°	1148.3	1153.6	1148.3	1143.2	1139.9	1140.1
31.5°	1123.6	1128.9	1123.6	1119.0	1116.2	1116.7
32°	1100.2	1104.0	1100.2	1096.4	1093.8	1094.3
32.5°	1075.8	1078.3	1075.8	1072.7	1071.7	1071.9
33°	1050.3	1052.6	1050.3	1048.0	1048.0	1048.8
33.5°	1024.1	1027.4	1024.1	1023.1	1022.8	1024.1
34°	995.9	999.4	995.9	996.6	996.6	997.9
34.5°	968.7	971.7	968.7	969.7	969.2	970.7
35°	941.4	943.0	941.4	941.4	941.7	942.2
35.5°	913.7	913.7	913.7	912.2	912.4	913.2
36°	885.0	883.7	885.0	883.2	883.2	883.4
36.5°	856.0	853.9	856.0	853.4	853.4	852.4
37°	826.0	823.4	826.0	823.7	822.7	821.1
37.5°	795.2	793.1	795.2	794.7	791.4	790.3
38°	763.1	762.9	763.1	763.6	759.6	759.3
38.5°	730.8	731.8	730.8	732.1	727.3	727.8
39°	698.3	701.1	698.3	700.6	695.2	694.7
39.5°	666.2	669.3	666.2	668.8	662.6	661.1
40°	634.4	637.5	634.4	636.7	630.3	627.5
40.5°	603.6	605.7	603.6	604.1	598.3	595.5
41°	572.6	573.9	572.6	571.6	566.5	564.0
41.5°	542.3	542.8	542.3	539.0	535.2	532.9
42°	511.8	512.3	511.8	507.0	503.9	502.1
42.5°	481.8	483.1	481.8	475.4	473.4	472.1
43°	451.5	453.8	451.5	444.4	442.9	441.9
43.5°	421.5	424.8	421.5	414.4	412.3	412.1



TEST NUMBER: P776053

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	336.8	340.9	336.8	329.2	325.6	324.8
45.5°	310.3	313.9	310.3	302.5	298.9	297.9
46°	283.9	288.0	283.9	276.5	272.7	272.4
46.5°	257.9	263.0	257.9	251.1	247.8	247.3
47°	233.8	238.9	233.8	227.2	223.3	222.8
47.5°	210.4	216.5	210.4	204.8	200.2	198.7
48°	188.7	194.1	188.7	183.2	177.8	176.8
48.5°	168.4	174.0	168.4	162.5	156.7	155.7
49°	149.1	155.7	149.1	143.2	137.1	136.1
49.5°	131.0	137.6	131.0	125.2	119.6	117.5
50°	114.0	119.6	114.0	108.6	102.8	100.5
50.5°	97.9	101.5	97.9	93.4	88.3	84.7
51°	82.9	85.0	82.9	79.1	74.5	71.0
51.5°	69.7	71.2	69.7	65.6	62.3	59.8
52°	58.0	58.8	58.0	54.4	51.9	49.6
52.5°	47.8	47.3	47.8	44.8	41.7	40.7
53°	38.2	37.6	38.2	35.6	33.6	31.8
53.5°	29.3	29.0	29.3	27.5	25.4	22.9
54°	22.1	23.9	22.1	19.8	17.6	16.5
54.5°	15.8	18.8	15.8	14.2	11.7	10.4
55°	10.9	13.7	10.9	9.7	7.4	6.4
55.5°	6.9	8.9	6.9	5.6	4.6	4.6
56°	4.3	4.6	4.3	3.6	3.1	3.3
56.5°	3.3	2.5	3.3	2.5	2.0	2.3
57°	2.3	1.5	2.3	1.8	1.8	1.3
57.5°	1.8	1.3	1.8	1.3	1.3	1.3
58°	1.3	1.3	1.3	1.3	1.3	1.3
58.5°	1.0	1.0	1.0	1.0	1.0	1.0
59°	1.0	1.0	1.0	1.0	1.0	1.0
59.5°	1.0	1.0	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0
60.5°	0.8	0.8	0.8	0.8	0.8	0.8
61°	0.8	0.8	0.8	0.8	0.8	0.8
61.5°	0.8	0.8	0.8	0.8	0.8	0.8
62°	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8
63°	0.8	0.8	0.8	0.8	0.8	0.8
63.5°	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776053

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.3	0.5	0.5	0.5	0.5
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°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	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	0.0
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: P776053
CATALOG NUMBER: HCDJBL1525CSD-HCD62TRC-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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Scaled Data Report





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

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21.5°	1838.1	1845.5	1856.4	1863.0	1865.1	1863.0	1856.4	1845.5	1838.1	1845.5	1856.4
22°	1781.6	1785.7	1796.7	1805.6	1811.7	1805.6	1796.7	1785.7	1781.6	1785.7	1796.7



44°	381.8	382.6	384.9	392.0	396.3	392.0	384.9	382.6	381.8	382.6	384.9
44.5°	353.1	353.8	356.1	364.3	368.3	364.3	356.1	353.8	353.1	353.8	356.1



66.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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°	1863.0	1865.1	1863.0	1856.4	1845.5	1838.1
22°	1805.6	1811.7	1805.6	1796.7	1785.7	1781.6

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44°	392.0	396.3	392.0	384.9	382.6	381.8
44.5°	364.3	368.3	364.3	356.1	353.8	353.1

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66.5°	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.5	0.5	0.5	0.5

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)