

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: P776155

Luminaire Tested: HCDJBL51525CSD-HCD82TRH-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776155  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B063-HCD82TRH)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD82TRH-2500lm-2700K  
Description: 8 INCH ROUND NARROW HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

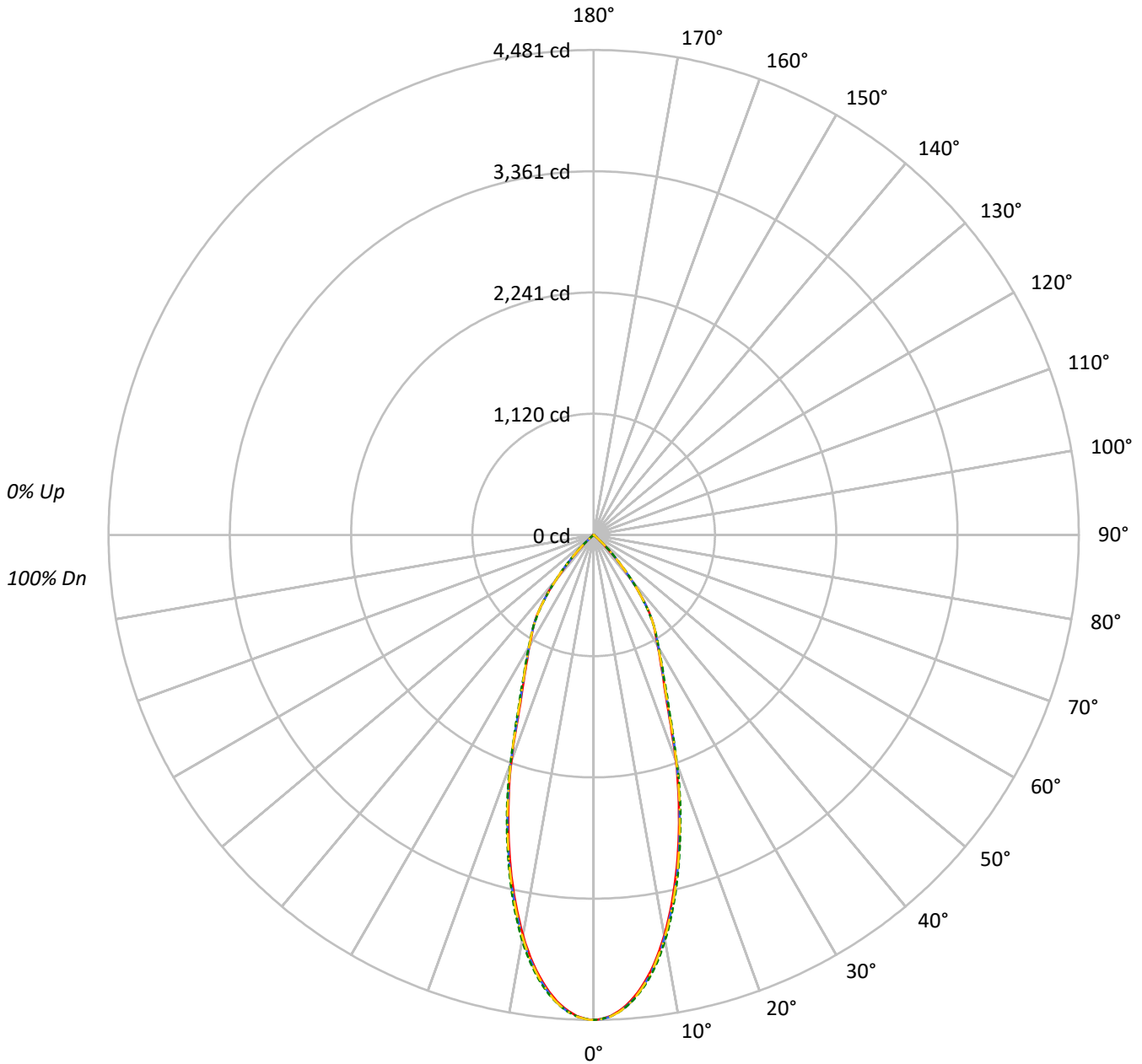
Lumens per Lamp: N/A  
Luminaire Lumens: 2699.1 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 0.64 / 0.65 / 0.67  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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									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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82																			
4	98	91	86	82	97	90	85	82	88	84	81	86	82	80	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72																			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68																			
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64																			
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61																			
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57																			
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	136812	136812	136812	136812
5°	131328	131929	131328	131929
10°	116450	117907	116450	117907
15°	95173	96712	95173	96712
20°	72202	73108	72202	73108
25°	52059	53470	52059	53470
30°	41765	42403	41765	42403
35°	34185	33898	34185	33898
40°	21446	21900	21446	21900
45°	8169	9477	8169	9477
50°	1221	1715	1221	1715
55°	255	271	255	271
60°	165	165	165	165
65°	108	108	108	108
70°	62	89	62	89
75°	59	59	59	59
80°	35	35	35	35
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9477 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.5	14.6
10°-20°	835.0	30.9
20°-30°	733.3	27.2
30°-40°	553.8	20.5
40°-50°	174.5	6.5
50°-60°	6.7	0.2
60°-70°	1.6	0.1
70°-80°	0.5	0.0
80°-90°	0.1	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°	1961.9	72.7
0°-40°	2515.7	93.2
0°-60°	2696.9	99.9
0°-90°	2699.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2699.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4481	4481	4481	4481	4481	
5°	4285	4305	4285	4305	4285	392
15°	3011	3060	3011	3060	3011	828
25°	1545	1587	1545	1587	1545	726
35°	917	910	917	910	917	553
45°	189	220	189	220	189	165
55°	5	5	5	5	5	6
65°	2	2	2	2	2	2
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°	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2
0.5°	4477.1	4478.0	4480.5	4481.4	4477.1	4481.4	4480.5	4478.0	4477.1	4478.0	4480.5
1°	4471.0	4472.2	4474.6	4476.3	4472.0	4476.3	4474.6	4472.2	4471.0	4472.2	4474.6
1.5°	4460.8	4462.3	4465.4	4467.4	4463.0	4467.4	4465.4	4462.3	4460.8	4462.3	4465.4
2°	4447.3	4448.5	4452.6	4455.0	4450.9	4455.0	4452.6	4448.5	4447.3	4448.5	4452.6
2.5°	4428.6	4431.0	4435.9	4438.8	4434.9	4438.8	4435.9	4431.0	4428.6	4431.0	4435.9
3°	4407.5	4410.0	4415.8	4419.4	4415.8	4419.4	4415.8	4410.0	4407.5	4410.0	4415.8
3.5°	4382.3	4385.2	4391.8	4396.4	4393.7	4396.4	4391.8	4385.2	4382.3	4385.2	4391.8
4°	4353.0	4356.7	4364.4	4370.0	4367.6	4370.0	4364.4	4356.7	4353.0	4356.7	4364.4
4.5°	4320.8	4324.2	4333.4	4340.2	4337.8	4340.2	4333.4	4324.2	4320.8	4324.2	4333.4
5°	4285.2	4288.8	4299.0	4307.0	4304.8	4307.0	4299.0	4288.8	4285.2	4288.8	4299.0
5.5°	4245.9	4249.8	4260.5	4269.7	4268.7	4269.7	4260.5	4249.8	4245.9	4249.8	4260.5
6°	4203.1	4207.2	4218.8	4229.5	4229.7	4229.5	4218.8	4207.2	4203.1	4207.2	4218.8
6.5°	4158.2	4161.6	4174.5	4186.3	4187.1	4186.3	4174.5	4161.6	4158.2	4161.6	4174.5
7°	4109.3	4113.2	4126.5	4139.8	4142.5	4139.8	4126.5	4113.2	4109.3	4113.2	4126.5
7.5°	4057.9	4061.1	4074.9	4089.0	4092.8	4089.0	4074.9	4061.1	4057.9	4061.1	4074.9
8°	4002.7	4006.3	4020.9	4036.1	4041.0	4036.1	4020.9	4006.3	4002.7	4006.3	4020.9
8.5°	3945.5	3948.7	3963.2	3980.4	3986.0	3980.4	3963.2	3948.7	3945.5	3948.7	3963.2
9°	3884.2	3888.4	3903.6	3922.0	3928.3	3922.0	3903.6	3888.4	3884.2	3888.4	3903.6
9.5°	3821.7	3826.1	3840.6	3860.0	3867.3	3860.0	3840.6	3826.1	3821.7	3826.1	3840.6
10°	3756.3	3761.2	3776.2	3797.3	3803.3	3797.3	3776.2	3761.2	3756.3	3761.2	3776.2
10.5°	3688.7	3693.6	3709.1	3731.4	3737.2	3731.4	3709.1	3693.6	3688.7	3693.6	3709.1
11°	3616.5	3624.3	3640.0	3663.3	3668.4	3663.3	3640.0	3624.3	3616.5	3624.3	3640.0
11.5°	3547.0	3553.3	3569.1	3591.6	3597.6	3591.6	3569.1	3553.3	3547.0	3553.3	3569.1
12°	3473.1	3480.6	3496.9	3519.6	3525.2	3519.6	3496.9	3480.6	3473.1	3480.6	3496.9
12.5°	3399.0	3406.7	3423.2	3444.8	3449.6	3444.8	3423.2	3406.7	3399.0	3406.7	3423.2
13°	3322.9	3331.6	3349.3	3370.9	3374.8	3370.9	3349.3	3331.6	3322.9	3331.6	3349.3
13.5°	3246.8	3255.6	3274.0	3292.9	3298.4	3292.9	3274.0	3255.6	3246.8	3255.6	3274.0
14°	3168.8	3178.3	3196.9	3214.1	3220.2	3214.1	3196.9	3178.3	3168.8	3178.3	3196.9
14.5°	3090.1	3099.8	3118.7	3134.9	3140.0	3134.9	3118.7	3099.8	3090.1	3099.8	3118.7
15°	3011.1	3021.0	3039.7	3056.2	3059.8	3056.2	3039.7	3021.0	3011.1	3021.0	3039.7
15.5°	2931.9	2941.6	2960.2	2976.0	2981.6	2976.0	2960.2	2941.6	2931.9	2941.6	2960.2
16°	2853.2	2861.6	2880.3	2896.0	2902.6	2896.0	2880.3	2861.6	2853.2	2861.6	2880.3
16.5°	2775.4	2782.7	2801.3	2816.6	2823.6	2816.6	2801.3	2782.7	2775.4	2782.7	2801.3
17°	2695.4	2703.4	2720.4	2738.3	2743.7	2738.3	2720.4	2703.4	2695.4	2703.4	2720.4
17.5°	2615.7	2623.7	2640.7	2658.9	2665.2	2658.9	2640.7	2623.7	2615.7	2623.7	2640.7
18°	2537.5	2543.5	2561.7	2579.4	2585.7	2579.4	2561.7	2543.5	2537.5	2543.5	2561.7
18.5°	2459.2	2465.3	2481.5	2498.7	2505.5	2498.7	2481.5	2465.3	2459.2	2465.3	2481.5
19°	2380.7	2386.6	2402.5	2417.1	2424.8	2417.1	2402.5	2386.6	2380.7	2386.6	2402.5
19.5°	2302.2	2308.5	2321.6	2334.0	2340.0	2334.0	2321.6	2308.5	2302.2	2308.5	2321.6
20°	2222.3	2227.6	2238.0	2249.9	2250.2	2249.9	2238.0	2227.6	2222.3	2227.6	2238.0
20.5°	2141.4	2144.8	2155.9	2167.1	2165.6	2167.1	2155.9	2144.8	2141.4	2144.8	2155.9
21°	2058.8	2064.3	2075.0	2085.9	2085.7	2085.9	2075.0	2064.3	2058.8	2064.3	2075.0



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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°	1829.1	1835.9	1845.6	1863.3	1871.0	1863.3	1845.6	1835.9	1829.1	1835.9	1845.6
23°	1763.0	1768.1	1779.7	1794.7	1803.4	1794.7	1779.7	1768.1	1763.0	1768.1	1779.7
23.5°	1697.6	1710.2	1719.4	1731.7	1740.2	1731.7	1719.4	1710.2	1697.6	1710.2	1719.4
24°	1646.2	1651.0	1663.9	1677.2	1688.3	1677.2	1663.9	1651.0	1646.2	1651.0	1663.9
24.5°	1593.1	1599.0	1611.5	1624.9	1638.2	1624.9	1611.5	1599.0	1593.1	1599.0	1611.5
25°	1545.4	1551.5	1563.3	1574.7	1587.3	1574.7	1563.3	1551.5	1545.4	1551.5	1563.3
25.5°	1504.5	1507.1	1516.8	1526.5	1537.4	1526.5	1516.8	1507.1	1504.5	1507.1	1516.8
26°	1464.0	1466.4	1472.7	1481.9	1488.5	1481.9	1472.7	1466.4	1464.0	1466.4	1472.7
26.5°	1422.1	1425.7	1433.2	1441.2	1445.4	1441.2	1433.2	1425.7	1422.1	1425.7	1433.2
27°	1381.6	1386.0	1395.7	1404.4	1408.5	1404.4	1395.7	1386.0	1381.6	1386.0	1395.7
27.5°	1344.6	1348.7	1358.1	1367.3	1373.2	1367.3	1358.1	1348.7	1344.6	1348.7	1358.1
28°	1310.4	1313.8	1321.6	1330.0	1334.9	1330.0	1321.6	1313.8	1310.4	1313.8	1321.6
28.5°	1277.9	1280.9	1287.4	1294.4	1299.8	1294.4	1287.4	1280.9	1277.9	1280.9	1287.4
29°	1246.5	1248.9	1255.2	1262.0	1265.4	1262.0	1255.2	1248.9	1246.5	1248.9	1255.2
29.5°	1215.0	1217.6	1223.9	1230.2	1233.4	1230.2	1223.9	1217.6	1215.0	1217.6	1223.9
30°	1184.7	1187.1	1193.2	1199.2	1202.8	1199.2	1193.2	1187.1	1184.7	1187.1	1193.2
30.5°	1155.4	1157.3	1163.6	1169.7	1173.3	1169.7	1163.6	1157.3	1155.4	1157.3	1163.6
31°	1126.5	1129.7	1135.3	1141.6	1144.7	1141.6	1135.3	1129.7	1126.5	1129.7	1135.3
31.5°	1100.1	1102.1	1108.1	1113.9	1117.8	1113.9	1108.1	1102.1	1100.1	1102.1	1108.1
32°	1074.0	1076.4	1082.0	1087.5	1090.9	1087.5	1082.0	1076.4	1074.0	1076.4	1082.0
32.5°	1049.7	1052.2	1057.2	1061.1	1063.1	1061.1	1057.2	1052.2	1049.7	1052.2	1057.2
33°	1027.2	1028.4	1031.6	1033.5	1033.3	1033.5	1031.6	1028.4	1027.2	1028.4	1031.6
33.5°	1003.9	1003.7	1003.9	1003.9	1003.5	1003.9	1003.9	1003.7	1003.9	1003.7	1003.9
34°	978.0	976.3	974.4	977.1	971.7	977.1	974.4	976.3	978.0	976.3	974.4
34.5°	948.2	947.7	947.3	945.3	940.5	945.3	947.3	947.7	948.2	947.7	947.3
35°	917.2	915.0	915.0	913.1	909.5	913.1	915.0	915.0	917.2	915.0	915.0
35.5°	885.2	882.6	882.6	879.2	877.0	879.2	882.6	882.6	885.2	882.6	882.6
36°	850.1	848.7	849.4	843.8	843.3	843.8	849.4	848.7	850.1	848.7	849.4
36.5°	813.8	813.5	813.5	808.2	807.2	808.2	813.5	813.5	813.8	813.5	813.5
37°	776.2	776.2	776.5	772.3	770.6	772.3	776.5	776.2	776.2	776.2	776.5
37.5°	738.7	737.9	741.1	736.0	734.8	736.0	741.1	737.9	738.7	737.9	741.1
38°	700.4	698.7	699.7	698.2	698.5	698.2	699.7	698.7	700.4	698.7	699.7
38.5°	660.4	659.0	658.5	660.7	661.4	660.7	658.5	659.0	660.4	659.0	658.5
39°	620.0	619.2	618.0	622.9	623.1	622.9	618.0	619.2	620.0	619.2	618.0
39.5°	578.8	578.8	578.8	584.8	586.3	584.8	578.8	578.8	578.8	578.8	578.8
40°	538.1	539.3	541.7	547.0	549.5	547.0	541.7	539.3	538.1	539.3	541.7
40.5°	498.1	499.6	504.9	509.0	513.4	509.0	504.9	499.6	498.1	499.6	504.9
41°	458.6	460.8	467.8	472.2	476.8	472.2	467.8	460.8	458.6	460.8	467.8
41.5°	419.1	422.8	431.0	435.8	441.2	435.8	431.0	422.8	419.1	422.8	431.0
42°	381.3	385.4	395.1	400.7	405.8	400.7	395.1	385.4	381.3	385.4	395.1
42.5°	344.7	349.3	360.2	367.5	372.1	367.5	360.2	349.3	344.7	349.3	360.2
43°	309.1	315.7	326.8	335.1	338.9	335.1	326.8	315.7	309.1	315.7	326.8
43.5°	275.7	283.5	294.4	303.3	306.7	303.3	294.4	283.5	275.7	283.5	294.4



TEST NUMBER: P776155

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	189.2	193.3	203.3	215.1	219.5	215.1	203.3	193.3	189.2	193.3	203.3
45.5°	163.0	167.2	177.1	189.0	193.8	189.0	177.1	167.2	163.0	167.2	177.1
46°	137.8	142.9	153.1	165.2	173.0	165.2	153.1	142.9	137.8	142.9	153.1
46.5°	116.5	120.4	132.0	143.4	152.1	143.4	132.0	120.4	116.5	120.4	132.0
47°	97.6	102.0	112.2	122.6	131.3	122.6	112.2	102.0	97.6	102.0	112.2
47.5°	80.9	84.6	93.3	102.2	110.5	102.2	93.3	84.6	80.9	84.6	93.3
48°	67.1	69.3	76.6	83.8	89.6	83.8	76.6	69.3	67.1	69.3	76.6
48.5°	54.3	56.9	61.8	68.3	73.4	68.3	61.8	56.9	54.3	56.9	61.8
49°	42.4	45.3	50.4	54.5	58.9	54.5	50.4	45.3	42.4	45.3	50.4
49.5°	33.2	35.4	39.7	43.6	46.8	43.6	39.7	35.4	33.2	35.4	39.7
50°	25.7	27.1	30.3	33.7	36.1	33.7	30.3	27.1	25.7	27.1	30.3
50.5°	19.1	19.4	23.0	26.4	28.1	26.4	23.0	19.4	19.1	19.4	23.0
51°	13.3	14.3	17.2	20.8	23.7	20.8	17.2	14.3	13.3	14.3	17.2
51.5°	8.7	10.7	13.3	15.7	19.6	15.7	13.3	10.7	8.7	10.7	13.3
52°	7.5	8.0	9.9	12.1	15.3	12.1	9.9	8.0	7.5	8.0	9.9
52.5°	6.8	7.0	7.3	9.2	11.1	9.2	7.3	7.0	6.8	7.0	7.3
53°	6.3	6.5	6.5	7.0	7.0	7.0	6.5	6.5	6.3	6.5	6.5
53.5°	5.8	6.1	6.3	6.3	6.1	6.3	6.3	6.1	5.8	6.1	6.3
54°	5.6	5.6	5.8	5.8	5.6	5.8	5.8	5.6	5.6	5.6	5.8
54.5°	5.1	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.1	5.3	5.3
55°	4.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.8	5.1	5.1
55.5°	4.6	4.6	4.8	4.8	4.8	4.8	4.8	4.6	4.6	4.6	4.8
56°	4.4	4.4	4.6	4.6	4.6	4.6	4.6	4.4	4.4	4.4	4.6
56.5°	4.1	4.1	4.4	4.4	4.1	4.4	4.4	4.1	4.1	4.1	4.4
57°	3.9	3.9	4.1	4.1	3.9	4.1	4.1	3.9	3.9	3.9	4.1
57.5°	3.6	3.6	3.9	3.9	3.9	3.9	3.9	3.6	3.6	3.6	3.9
58°	3.4	3.4	3.6	3.6	3.6	3.6	3.6	3.4	3.4	3.4	3.6
58.5°	3.1	3.1	3.4	3.4	3.4	3.4	3.4	3.1	3.1	3.1	3.4
59°	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.9	3.1	3.1
59.5°	2.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.9	2.9
60°	2.7	2.7	2.9	2.9	2.7	2.9	2.9	2.7	2.7	2.7	2.9
60.5°	2.4	2.4	2.7	2.7	2.7	2.7	2.7	2.4	2.4	2.4	2.7
61°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
61.5°	2.2	2.2	2.4	2.4	2.4	2.4	2.4	2.2	2.2	2.2	2.4
62°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	1.9	1.9	2.2	2.2	2.2	2.2	2.2	1.9	1.9	1.9	2.2
63°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
63.5°	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.7	1.7	1.7	1.9
64°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
64.5°	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.7	1.7
65°	1.5	1.5	1.7	1.7	1.5	1.7	1.7	1.5	1.5	1.5	1.7
65.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
66°	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.5	1.5





TEST NUMBER: P776155

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
68°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.2
68.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
69°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
69.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	1.0
70.5°	0.7	0.7	0.7	1.0	0.7	1.0	0.7	0.7	0.7	0.7	0.7
71°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
71.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.7
73°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
77°	0.2	0.2	0.2	0.5	0.5	0.5	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
82.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
83°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776155  
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-2500lm-2700K

**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: P776155

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2
0.5°	4481.4	4477.1	4481.4	4480.5	4478.0	4477.1
1°	4476.3	4472.0	4476.3	4474.6	4472.2	4471.0
1.5°	4467.4	4463.0	4467.4	4465.4	4462.3	4460.8
2°	4455.0	4450.9	4455.0	4452.6	4448.5	4447.3
2.5°	4438.8	4434.9	4438.8	4435.9	4431.0	4428.6
3°	4419.4	4415.8	4419.4	4415.8	4410.0	4407.5
3.5°	4396.4	4393.7	4396.4	4391.8	4385.2	4382.3
4°	4370.0	4367.6	4370.0	4364.4	4356.7	4353.0
4.5°	4340.2	4337.8	4340.2	4333.4	4324.2	4320.8
5°	4307.0	4304.8	4307.0	4299.0	4288.8	4285.2
5.5°	4269.7	4268.7	4269.7	4260.5	4249.8	4245.9
6°	4229.5	4229.7	4229.5	4218.8	4207.2	4203.1
6.5°	4186.3	4187.1	4186.3	4174.5	4161.6	4158.2
7°	4139.8	4142.5	4139.8	4126.5	4113.2	4109.3
7.5°	4089.0	4092.8	4089.0	4074.9	4061.1	4057.9
8°	4036.1	4041.0	4036.1	4020.9	4006.3	4002.7
8.5°	3980.4	3986.0	3980.4	3963.2	3948.7	3945.5
9°	3922.0	3928.3	3922.0	3903.6	3888.4	3884.2
9.5°	3860.0	3867.3	3860.0	3840.6	3826.1	3821.7
10°	3797.3	3803.3	3797.3	3776.2	3761.2	3756.3
10.5°	3731.4	3737.2	3731.4	3709.1	3693.6	3688.7
11°	3663.3	3668.4	3663.3	3640.0	3624.3	3616.5
11.5°	3591.6	3597.6	3591.6	3569.1	3553.3	3547.0
12°	3519.6	3525.2	3519.6	3496.9	3480.6	3473.1
12.5°	3444.8	3449.6	3444.8	3423.2	3406.7	3399.0
13°	3370.9	3374.8	3370.9	3349.3	3331.6	3322.9
13.5°	3292.9	3298.4	3292.9	3274.0	3255.6	3246.8
14°	3214.1	3220.2	3214.1	3196.9	3178.3	3168.8
14.5°	3134.9	3140.0	3134.9	3118.7	3099.8	3090.1
15°	3056.2	3059.8	3056.2	3039.7	3021.0	3011.1
15.5°	2976.0	2981.6	2976.0	2960.2	2941.6	2931.9
16°	2896.0	2902.6	2896.0	2880.3	2861.6	2853.2
16.5°	2816.6	2823.6	2816.6	2801.3	2782.7	2775.4
17°	2738.3	2743.7	2738.3	2720.4	2703.4	2695.4
17.5°	2658.9	2665.2	2658.9	2640.7	2623.7	2615.7
18°	2579.4	2585.7	2579.4	2561.7	2543.5	2537.5
18.5°	2498.7	2505.5	2498.7	2481.5	2465.3	2459.2
19°	2417.1	2424.8	2417.1	2402.5	2386.6	2380.7
19.5°	2334.0	2340.0	2334.0	2321.6	2308.5	2302.2
20°	2249.9	2250.2	2249.9	2238.0	2227.6	2222.3
20.5°	2167.1	2165.6	2167.1	2155.9	2144.8	2141.4
21°	2085.9	2085.7	2085.9	2075.0	2064.3	2058.8

TEST NUMBER: P776155

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1863.3	1871.0	1863.3	1845.6	1835.9	1829.1
23°	1794.7	1803.4	1794.7	1779.7	1768.1	1763.0
23.5°	1731.7	1740.2	1731.7	1719.4	1710.2	1697.6
24°	1677.2	1688.3	1677.2	1663.9	1651.0	1646.2
24.5°	1624.9	1638.2	1624.9	1611.5	1599.0	1593.1
25°	1574.7	1587.3	1574.7	1563.3	1551.5	1545.4
25.5°	1526.5	1537.4	1526.5	1516.8	1507.1	1504.5
26°	1481.9	1488.5	1481.9	1472.7	1466.4	1464.0
26.5°	1441.2	1445.4	1441.2	1433.2	1425.7	1422.1
27°	1404.4	1408.5	1404.4	1395.7	1386.0	1381.6
27.5°	1367.3	1373.2	1367.3	1358.1	1348.7	1344.6
28°	1330.0	1334.9	1330.0	1321.6	1313.8	1310.4
28.5°	1294.4	1299.8	1294.4	1287.4	1280.9	1277.9
29°	1262.0	1265.4	1262.0	1255.2	1248.9	1246.5
29.5°	1230.2	1233.4	1230.2	1223.9	1217.6	1215.0
30°	1199.2	1202.8	1199.2	1193.2	1187.1	1184.7
30.5°	1169.7	1173.3	1169.7	1163.6	1157.3	1155.4
31°	1141.6	1144.7	1141.6	1135.3	1129.7	1126.5
31.5°	1113.9	1117.8	1113.9	1108.1	1102.1	1100.1
32°	1087.5	1090.9	1087.5	1082.0	1076.4	1074.0
32.5°	1061.1	1063.1	1061.1	1057.2	1052.2	1049.7
33°	1033.5	1033.3	1033.5	1031.6	1028.4	1027.2
33.5°	1003.9	1003.5	1003.9	1003.9	1003.7	1003.9
34°	977.1	971.7	977.1	974.4	976.3	978.0
34.5°	945.3	940.5	945.3	947.3	947.7	948.2
35°	913.1	909.5	913.1	915.0	915.0	917.2
35.5°	879.2	877.0	879.2	882.6	882.6	885.2
36°	843.8	843.3	843.8	849.4	848.7	850.1
36.5°	808.2	807.2	808.2	813.5	813.5	813.8
37°	772.3	770.6	772.3	776.5	776.2	776.2
37.5°	736.0	734.8	736.0	741.1	737.9	738.7
38°	698.2	698.5	698.2	699.7	698.7	700.4
38.5°	660.7	661.4	660.7	658.5	659.0	660.4
39°	622.9	623.1	622.9	618.0	619.2	620.0
39.5°	584.8	586.3	584.8	578.8	578.8	578.8
40°	547.0	549.5	547.0	541.7	539.3	538.1
40.5°	509.0	513.4	509.0	504.9	499.6	498.1
41°	472.2	476.8	472.2	467.8	460.8	458.6
41.5°	435.8	441.2	435.8	431.0	422.8	419.1
42°	400.7	405.8	400.7	395.1	385.4	381.3
42.5°	367.5	372.1	367.5	360.2	349.3	344.7
43°	335.1	338.9	335.1	326.8	315.7	309.1
43.5°	303.3	306.7	303.3	294.4	283.5	275.7



TEST NUMBER: P776155

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	215.1	219.5	215.1	203.3	193.3	189.2
45.5°	189.0	193.8	189.0	177.1	167.2	163.0
46°	165.2	173.0	165.2	153.1	142.9	137.8
46.5°	143.4	152.1	143.4	132.0	120.4	116.5
47°	122.6	131.3	122.6	112.2	102.0	97.6
47.5°	102.2	110.5	102.2	93.3	84.6	80.9
48°	83.8	89.6	83.8	76.6	69.3	67.1
48.5°	68.3	73.4	68.3	61.8	56.9	54.3
49°	54.5	58.9	54.5	50.4	45.3	42.4
49.5°	43.6	46.8	43.6	39.7	35.4	33.2
50°	33.7	36.1	33.7	30.3	27.1	25.7
50.5°	26.4	28.1	26.4	23.0	19.4	19.1
51°	20.8	23.7	20.8	17.2	14.3	13.3
51.5°	15.7	19.6	15.7	13.3	10.7	8.7
52°	12.1	15.3	12.1	9.9	8.0	7.5
52.5°	9.2	11.1	9.2	7.3	7.0	6.8
53°	7.0	7.0	7.0	6.5	6.5	6.3
53.5°	6.3	6.1	6.3	6.3	6.1	5.8
54°	5.8	5.6	5.8	5.8	5.6	5.6
54.5°	5.3	5.3	5.3	5.3	5.3	5.1
55°	5.1	5.1	5.1	5.1	5.1	4.8
55.5°	4.8	4.8	4.8	4.8	4.6	4.6
56°	4.6	4.6	4.6	4.6	4.4	4.4
56.5°	4.4	4.1	4.4	4.4	4.1	4.1
57°	4.1	3.9	4.1	4.1	3.9	3.9
57.5°	3.9	3.9	3.9	3.9	3.6	3.6
58°	3.6	3.6	3.6	3.6	3.4	3.4
58.5°	3.4	3.4	3.4	3.4	3.1	3.1
59°	3.1	3.1	3.1	3.1	3.1	2.9
59.5°	2.9	2.9	2.9	2.9	2.9	2.7
60°	2.9	2.7	2.9	2.9	2.7	2.7
60.5°	2.7	2.7	2.7	2.7	2.4	2.4
61°	2.4	2.4	2.4	2.4	2.4	2.4
61.5°	2.4	2.4	2.4	2.4	2.2	2.2
62°	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	1.9	1.9
63°	1.9	1.9	1.9	1.9	1.9	1.9
63.5°	1.9	1.9	1.9	1.9	1.7	1.7
64°	1.7	1.7	1.7	1.7	1.7	1.7
64.5°	1.7	1.7	1.7	1.7	1.7	1.5
65°	1.7	1.5	1.7	1.7	1.5	1.5
65.5°	1.5	1.5	1.5	1.5	1.5	1.5
66°	1.5	1.5	1.5	1.5	1.5	1.2



TEST NUMBER: P776155  
 CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.2	1.2	1.2	1.2	1.2
68°	1.2	1.2	1.2	1.2	1.0	1.0
68.5°	1.0	1.0	1.0	1.0	1.0	1.0
69°	1.0	1.0	1.0	1.0	1.0	1.0
69.5°	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	0.7	0.7
70.5°	1.0	0.7	1.0	0.7	0.7	0.7
71°	0.7	0.7	0.7	0.7	0.7	0.7
71.5°	0.7	0.7	0.7	0.7	0.7	0.7
72°	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.5
73°	0.7	0.7	0.7	0.7	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.2	0.2
77°	0.5	0.5	0.5	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	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.0
82.5°	0.2	0.2	0.2	0.2	0.0	0.0
83°	0.2	0.2	0.2	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: P776155  
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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Peachtree City, GA 30269

Scaled Data Report



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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°	1973.3	1985.1	1997.0	2008.1	2011.0	2008.1	1997.0	1985.1	1973.3	1985.1	1997.0
22°	1898.9	1906.6	1920.4	1931.8	1937.6	1931.8	1920.4	1906.6	1898.9	1906.6	1920.4



44°	245.4	252.2	263.1	272.3	275.9	272.3	263.1	252.2	245.4	252.2	263.1
44.5°	216.8	222.2	232.3	242.3	246.6	242.3	232.3	222.2	216.8	222.2	232.3



66.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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°	2008.1	2011.0	2008.1	1997.0	1985.1	1973.3
22°	1931.8	1937.6	1931.8	1920.4	1906.6	1898.9



44°	272.3	275.9	272.3	263.1	252.2	245.4
44.5°	242.3	246.6	242.3	232.3	222.2	216.8



66.5°	1.2	1.2	1.2	1.2	1.2	1.2
67°	1.2	1.2	1.2	1.2	1.2	1.2

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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)