

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: P776153

Luminaire Tested: HCDJBS1525CSD-HCD82TRC-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B062-HCD82TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRC-2500lm-4000K
Description: 8 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

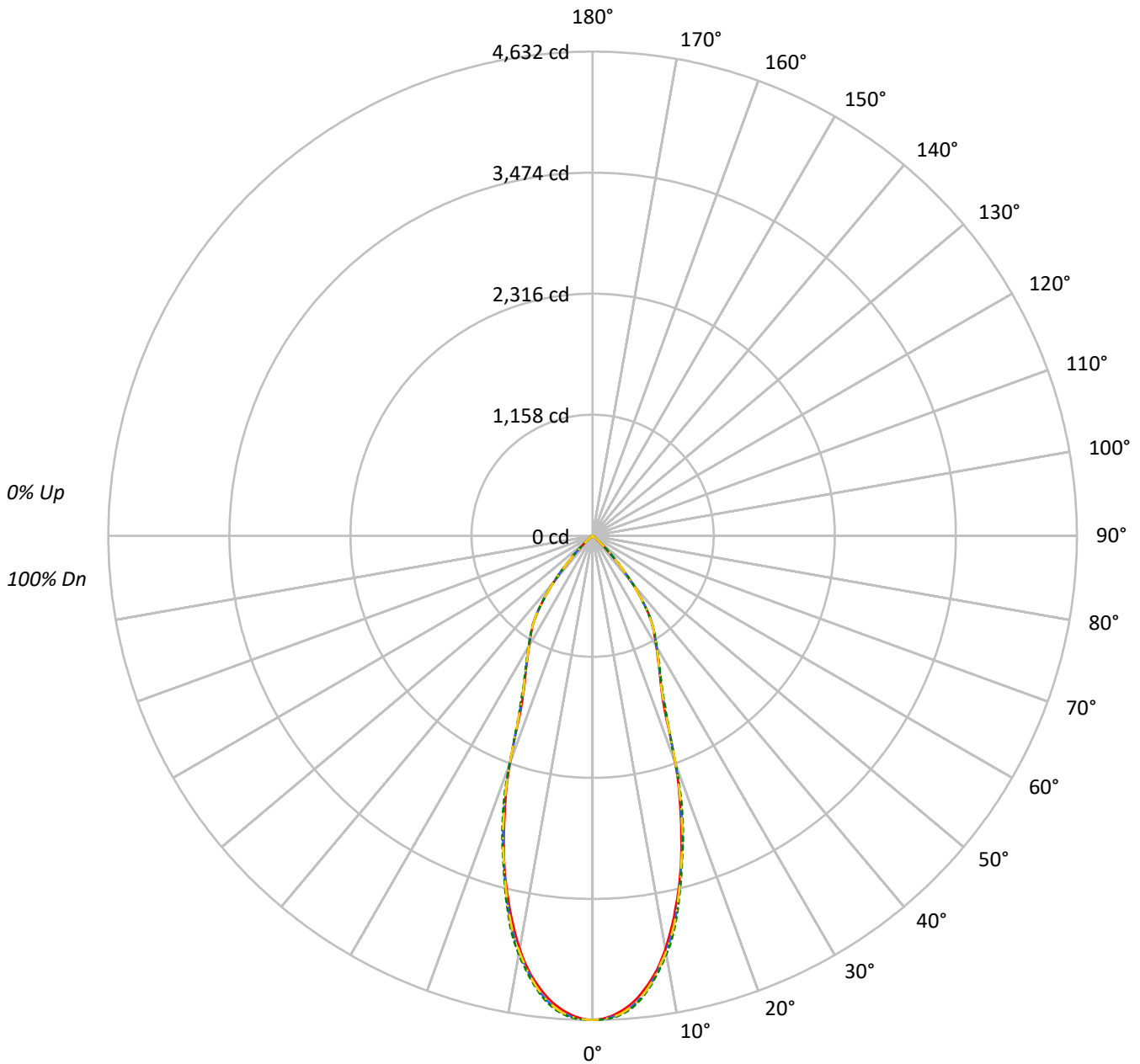
Lumens per Lamp: N/A
Luminaire Lumens: 2828.3 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.66 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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										
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								
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	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	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	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	141377	141377	141377	141377
5°	137154	138542	137154	138542
10°	124358	126029	124358	126029
15°	103116	104007	103116	104007
20°	75090	75402	75090	75402
25°	51732	52453	51732	52453
30°	42857	43309	42857	43309
35°	35776	35605	35776	35605
40°	22896	23211	22896	23211
45°	9270	10181	9270	10181
50°	1738	1933	1738	1933
55°	527	516	527	516
60°	342	342	342	342
65°	238	238	238	238
70°	161	179	161	179
75°	118	118	118	118
80°	88	88	88	88
85°	0	105	0	105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.0	14.7
10°-20°	895.1	31.6
20°-30°	734.2	26.0
30°-40°	577.9	20.4
40°-50°	190.1	6.7
50°-60°	11.1	0.4
60°-70°	3.4	0.1
70°-80°	1.2	0.0
80°-90°	0.2	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°	2044.4	72.3
0°-40°	2622.3	92.7
0°-60°	2823.5	99.8
0°-90°	2828.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2828.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4631	4631	4631	4631	4631	
5°	4475	4521	4475	4521	4475	413
15°	3262	3291	3262	3291	3262	888
25°	1536	1557	1536	1557	1536	729
35°	960	955	960	955	960	577
45°	215	236	215	236	215	183
55°	10	10	10	10	10	10
65°	3	3	3	3	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	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°	4630.7	4630.7	4630.7	4630.7	4630.7	4630.7	4630.7	4630.7	4630.7	4630.7	4630.7
0.5°	4628.7	4629.2	4631.5	4626.9	4632.0	4626.9	4631.5	4629.2	4628.7	4629.2	4631.5
1°	4623.9	4624.9	4628.4	4624.1	4629.5	4624.1	4628.4	4624.9	4623.9	4624.9	4628.4
1.5°	4615.2	4617.5	4622.8	4619.5	4625.1	4619.5	4622.8	4617.5	4615.2	4617.5	4622.8
2°	4603.8	4606.8	4615.0	4612.7	4620.5	4612.7	4615.0	4606.8	4603.8	4606.8	4615.0
2.5°	4589.0	4593.8	4604.0	4603.5	4612.2	4603.5	4604.0	4593.8	4589.0	4593.8	4604.0
3°	4572.0	4578.3	4590.8	4591.0	4601.0	4591.0	4590.8	4578.3	4572.0	4578.3	4590.8
3.5°	4552.1	4560.5	4574.5	4575.3	4586.5	4575.3	4574.5	4560.5	4552.1	4560.5	4574.5
4°	4530.0	4541.2	4555.2	4556.2	4568.4	4556.2	4555.2	4541.2	4530.0	4541.2	4555.2
4.5°	4504.3	4518.3	4532.0	4534.3	4546.5	4534.3	4532.0	4518.3	4504.3	4518.3	4532.0
5°	4475.3	4492.9	4505.6	4508.9	4520.6	4508.9	4505.6	4492.9	4475.3	4492.9	4505.6
5.5°	4443.0	4463.9	4474.1	4480.4	4490.6	4480.4	4474.1	4463.9	4443.0	4463.9	4474.1
6°	4407.7	4431.1	4439.2	4448.9	4455.2	4448.9	4439.2	4431.1	4407.7	4431.1	4439.2
6.5°	4369.0	4394.2	4399.5	4413.5	4415.8	4413.5	4399.5	4394.2	4369.0	4394.2	4399.5
7°	4328.3	4353.0	4356.5	4375.6	4372.1	4375.6	4356.5	4353.0	4328.3	4353.0	4356.5
7.5°	4285.1	4307.7	4309.2	4334.2	4326.3	4334.2	4309.2	4307.7	4285.1	4307.7	4309.2
8°	4238.8	4258.9	4259.9	4289.1	4276.9	4289.1	4259.9	4258.9	4238.8	4258.9	4259.9
8.5°	4188.2	4204.7	4207.3	4239.8	4226.6	4239.8	4207.3	4204.7	4188.2	4204.7	4207.3
9°	4134.3	4147.0	4152.8	4185.9	4173.2	4185.9	4152.8	4147.0	4134.3	4147.0	4152.8
9.5°	4074.7	4083.9	4097.4	4127.4	4120.5	4127.4	4097.4	4083.9	4074.7	4083.9	4097.4
10°	4011.4	4018.3	4039.4	4063.3	4065.3	4063.3	4039.4	4018.3	4011.4	4018.3	4039.4
10.5°	3944.3	3948.6	3979.6	3995.4	4008.6	3995.4	3979.6	3948.6	3944.3	3948.6	3979.6
11°	3875.8	3877.6	3917.6	3924.4	3946.6	3924.4	3917.6	3877.6	3875.8	3877.6	3917.6
11.5°	3804.4	3805.7	3850.7	3851.2	3878.4	3851.2	3850.7	3805.7	3804.4	3805.7	3850.7
12°	3732.4	3733.4	3777.2	3778.4	3805.1	3778.4	3777.2	3733.4	3732.4	3733.4	3777.2
12.5°	3656.6	3662.7	3697.6	3704.4	3723.5	3704.4	3697.6	3662.7	3656.6	3662.7	3697.6
13°	3582.1	3591.0	3615.4	3629.1	3641.6	3629.1	3615.4	3591.0	3582.1	3591.0	3615.4
13.5°	3504.8	3517.0	3529.7	3549.3	3553.9	3549.3	3529.7	3517.0	3504.8	3517.0	3529.7
14°	3426.9	3439.2	3444.2	3465.9	3465.6	3465.9	3444.2	3439.2	3426.9	3439.2	3444.2
14.5°	3346.1	3355.7	3359.5	3381.4	3378.4	3381.4	3359.5	3355.7	3346.1	3355.7	3359.5
15°	3262.4	3268.5	3274.6	3294.4	3290.6	3294.4	3274.6	3268.5	3262.4	3268.5	3274.6
15.5°	3172.9	3176.4	3189.9	3207.7	3208.5	3207.7	3189.9	3176.4	3172.9	3176.4	3189.9
16°	3081.8	3084.1	3104.4	3120.2	3124.0	3120.2	3104.4	3084.1	3081.8	3084.1	3104.4
16.5°	2985.9	2992.8	3017.0	3033.5	3042.6	3033.5	3017.0	2992.8	2985.9	2992.8	3017.0
17°	2893.1	2901.2	2927.9	2947.5	2959.2	2947.5	2927.9	2901.2	2893.1	2901.2	2927.9
17.5°	2799.2	2810.4	2834.6	2858.5	2869.9	2858.5	2834.6	2810.4	2799.2	2810.4	2834.6
18°	2708.9	2717.1	2739.2	2765.2	2775.1	2765.2	2739.2	2717.1	2708.9	2717.1	2739.2
18.5°	2614.8	2622.5	2639.5	2665.5	2673.1	2665.5	2639.5	2622.5	2614.8	2622.5	2639.5
19°	2518.5	2523.5	2536.8	2556.1	2564.0	2556.1	2536.8	2523.5	2518.5	2523.5	2536.8
19.5°	2417.7	2418.2	2428.2	2442.9	2450.3	2442.9	2428.2	2418.2	2417.7	2418.2	2428.2
20°	2311.2	2311.2	2316.5	2324.6	2320.8	2324.6	2316.5	2311.2	2311.2	2311.2	2316.5
20.5°	2206.4	2202.6	2204.9	2204.6	2193.4	2204.6	2204.9	2202.6	2206.4	2202.6	2204.9
21°	2098.5	2096.0	2086.6	2096.0	2092.4	2096.0	2086.6	2096.0	2098.5	2096.0	2086.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1796.9	1808.8	1825.1	1844.7	1836.1	1844.7	1825.1	1808.8	1796.9	1808.8	1825.1
23°	1726.4	1734.6	1751.4	1778.1	1778.3	1778.1	1751.4	1734.6	1726.4	1734.6	1751.4
23.5°	1674.6	1673.3	1684.0	1709.7	1713.0	1709.7	1684.0	1673.3	1674.6	1673.3	1684.0
24°	1618.9	1624.5	1631.1	1651.9	1653.4	1651.9	1631.1	1624.5	1618.9	1624.5	1631.1
24.5°	1576.1	1578.9	1584.8	1598.0	1598.0	1598.0	1584.8	1578.9	1576.1	1578.9	1584.8
25°	1535.7	1539.3	1545.4	1557.6	1557.1	1557.6	1545.4	1539.3	1535.7	1539.3	1545.4
25.5°	1498.0	1499.8	1506.2	1517.6	1518.4	1517.6	1506.2	1499.8	1498.0	1499.8	1506.2
26°	1461.7	1463.2	1467.8	1476.4	1477.7	1476.4	1467.8	1463.2	1461.7	1463.2	1467.8
26.5°	1427.3	1427.9	1433.2	1441.1	1441.8	1441.1	1433.2	1427.9	1427.3	1427.9	1433.2
27°	1392.5	1394.0	1399.6	1409.5	1412.1	1409.5	1399.6	1394.0	1392.5	1394.0	1399.6
27.5°	1359.7	1361.7	1367.1	1376.7	1380.3	1376.7	1367.1	1361.7	1359.7	1361.7	1367.1
28°	1328.7	1330.7	1335.8	1342.9	1346.2	1342.9	1335.8	1330.7	1328.7	1330.7	1335.8
28.5°	1299.9	1300.9	1305.8	1311.4	1314.2	1311.4	1305.8	1300.9	1299.9	1300.9	1305.8
29°	1271.4	1272.2	1276.8	1281.6	1284.7	1281.6	1276.8	1272.2	1271.4	1272.2	1276.8
29.5°	1243.2	1244.7	1248.5	1253.9	1256.4	1253.9	1248.5	1244.7	1243.2	1244.7	1248.5
30°	1215.7	1217.3	1220.8	1225.9	1228.5	1225.9	1220.8	1217.3	1215.7	1217.3	1220.8
30.5°	1189.0	1190.3	1193.9	1198.7	1200.5	1198.7	1193.9	1190.3	1189.0	1190.3	1193.9
31°	1162.8	1164.1	1167.4	1172.5	1175.0	1172.5	1167.4	1164.1	1162.8	1164.1	1167.4
31.5°	1137.7	1138.9	1142.5	1147.1	1148.8	1147.1	1142.5	1138.9	1137.7	1138.9	1142.5
32°	1113.5	1114.5	1117.8	1122.4	1124.2	1122.4	1117.8	1114.5	1113.5	1114.5	1117.8
32.5°	1090.3	1091.4	1093.7	1098.0	1099.5	1098.0	1093.7	1091.4	1090.3	1091.4	1093.7
33°	1068.0	1068.5	1069.7	1071.8	1073.3	1071.8	1069.7	1068.5	1068.0	1068.5	1069.7
33.5°	1044.8	1044.8	1044.3	1043.3	1045.6	1043.3	1044.3	1044.8	1044.8	1044.8	1044.3
34°	1018.6	1017.6	1017.1	1013.8	1018.9	1013.8	1017.1	1017.6	1018.6	1017.6	1017.1
34.5°	990.4	988.1	987.8	983.5	987.3	983.5	987.8	988.1	990.4	988.1	987.8
35°	959.9	956.8	956.8	952.7	955.3	952.7	956.8	956.8	959.9	956.8	956.8
35.5°	926.6	925.3	923.8	920.2	921.7	920.2	923.8	925.3	926.6	925.3	923.8
36°	892.0	891.5	888.7	886.6	886.9	886.6	888.7	891.5	892.0	891.5	888.7
36.5°	855.3	856.4	852.3	851.0	849.5	851.0	852.3	856.4	855.3	856.4	852.3
37°	815.9	819.0	815.4	814.6	812.6	814.6	815.4	819.0	815.9	819.0	815.4
37.5°	776.7	779.0	778.0	776.7	776.0	776.7	778.0	779.0	776.7	779.0	778.0
38°	737.6	739.4	738.1	739.1	738.3	739.1	738.1	739.4	737.6	739.4	738.1
38.5°	698.4	697.4	697.9	698.2	700.2	698.2	697.9	697.4	698.4	697.4	697.9
39°	658.5	656.2	657.5	657.5	661.5	657.5	657.5	656.2	658.5	656.2	657.5
39.5°	616.5	615.2	617.0	618.5	621.6	618.5	617.0	615.2	616.5	615.2	617.0
40°	574.5	575.6	577.9	580.1	582.4	580.1	577.9	575.6	574.5	575.6	577.9
40.5°	532.8	535.4	537.7	543.3	543.0	543.3	537.7	535.4	532.8	535.4	537.7
41°	492.4	495.2	498.5	505.1	504.1	505.1	498.5	495.2	492.4	495.2	498.5
41.5°	451.7	455.3	459.6	467.5	465.7	467.5	459.6	455.3	451.7	455.3	459.6
42°	413.0	416.6	422.5	430.3	429.1	430.3	422.5	416.6	413.0	416.6	422.5
42.5°	375.7	379.0	386.6	394.7	394.0	394.7	386.6	379.0	375.7	379.0	386.6
43°	339.5	343.9	351.7	360.9	360.1	360.9	351.7	343.9	339.5	343.9	351.7
43.5°	307.2	309.5	317.4	326.3	327.1	326.3	317.4	309.5	307.2	309.5	317.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	214.7	215.7	224.3	232.5	235.8	232.5	224.3	215.7	214.7	215.7	224.3
45.5°	185.2	187.4	197.1	204.2	208.6	204.2	197.1	187.4	185.2	187.4	197.1
46°	159.2	161.0	171.4	179.6	184.1	179.6	171.4	161.0	159.2	161.0	171.4
46.5°	135.8	138.9	147.0	157.2	162.5	157.2	147.0	138.9	135.8	138.9	147.0
47°	114.5	118.0	124.4	135.8	140.9	135.8	124.4	118.0	114.5	118.0	124.4
47.5°	96.1	99.7	105.6	115.5	119.3	115.5	105.6	99.7	96.1	99.7	105.6
48°	79.6	83.9	88.0	96.9	97.7	96.9	88.0	83.9	79.6	83.9	88.0
48.5°	65.6	69.4	72.7	80.4	79.1	80.4	72.7	69.4	65.6	69.4	72.7
49°	54.4	56.7	59.0	66.1	64.1	66.1	59.0	56.7	54.4	56.7	59.0
49.5°	45.5	46.3	48.8	53.2	50.9	53.2	48.8	46.3	45.5	46.3	48.8
50°	36.6	36.4	39.2	43.2	40.7	43.2	39.2	36.4	36.6	36.4	39.2
50.5°	27.7	28.7	30.3	34.3	32.0	34.3	30.3	28.7	27.7	28.7	30.3
51°	21.4	21.9	24.7	27.5	25.4	27.5	24.7	21.9	21.4	21.9	24.7
51.5°	16.0	18.1	19.6	22.9	22.6	22.9	19.6	18.1	16.0	18.1	19.6
52°	14.0	15.0	16.5	18.1	19.8	18.1	16.5	15.0	14.0	15.0	16.5
52.5°	12.7	13.0	14.2	15.3	16.8	15.3	14.2	13.0	12.7	13.0	14.2
53°	12.0	12.2	12.2	13.2	14.0	13.2	12.2	12.2	12.0	12.2	12.2
53.5°	11.4	11.4	11.7	11.4	11.2	11.4	11.7	11.4	11.4	11.4	11.7
54°	10.9	10.9	10.9	10.9	10.7	10.9	10.9	10.9	10.9	10.9	10.9
54.5°	10.4	10.4	10.4	10.4	10.2	10.4	10.4	10.4	10.4	10.4	10.4
55°	9.9	9.9	9.9	9.9	9.7	9.9	9.9	9.9	9.9	9.9	9.9
55.5°	9.4	9.4	9.4	9.4	9.2	9.4	9.4	9.4	9.4	9.4	9.4
56°	8.9	8.9	8.9	8.9	8.6	8.9	8.9	8.9	8.9	8.9	8.9
56.5°	8.4	8.4	8.6	8.4	8.1	8.4	8.6	8.4	8.4	8.4	8.6
57°	7.9	7.9	8.1	7.9	7.9	7.9	8.1	7.9	7.9	7.9	8.1
57.5°	7.4	7.6	7.6	7.4	7.4	7.4	7.6	7.6	7.4	7.6	7.6
58°	7.1	7.1	7.1	7.1	6.9	7.1	7.1	7.1	7.1	7.1	7.1
58.5°	6.6	6.9	6.9	6.6	6.6	6.6	6.9	6.9	6.6	6.9	6.9
59°	6.4	6.4	6.4	6.4	6.1	6.4	6.4	6.4	6.4	6.4	6.4
59.5°	5.8	6.1	6.1	6.1	5.8	6.1	6.1	6.1	5.8	6.1	6.1
60°	5.6	5.6	5.8	5.6	5.6	5.6	5.8	5.6	5.6	5.6	5.8
60.5°	5.3	5.3	5.6	5.3	5.3	5.3	5.6	5.3	5.3	5.3	5.6
61°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
61.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
63°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
63.5°	3.8	3.8	4.1	3.8	3.8	3.8	4.1	3.8	3.8	3.8	4.1
64°	3.6	3.6	3.8	3.8	3.6	3.8	3.8	3.6	3.6	3.6	3.8
64.5°	3.3	3.6	3.6	3.6	3.3	3.6	3.6	3.6	3.3	3.6	3.6
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65.5°	3.1	3.1	3.3	3.1	3.1	3.1	3.3	3.1	3.1	3.1	3.3
66°	2.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.8	3.1	3.1



TEST NUMBER: P776153

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
68°	2.3	2.3	2.5	2.5	2.3	2.5	2.5	2.3	2.3	2.3	2.5
68.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
69°	2.0	2.0	2.3	2.3	2.0	2.3	2.3	2.0	2.0	2.0	2.3
69.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	1.8	1.8	2.0	2.0	2.0	2.0	2.0	1.8	1.8	1.8	2.0
70.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
71°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
71.5°	1.5	1.5	1.8	1.8	1.5	1.8	1.8	1.5	1.5	1.5	1.8
72°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
73°	1.3	1.3	1.3	1.5	1.3	1.5	1.3	1.3	1.3	1.3	1.3
73.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
74°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
74.5°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.3
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8
77°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
79°	0.5	0.5	0.5	0.8	0.5	0.8	0.5	0.5	0.5	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
82°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
85.5°	0.0	0.0	0.0	0.3	0.3	0.3	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: P776153
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-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: P776153

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4630.7	4630.7	4630.7	4630.7	4630.7	4630.7
0.5°	4626.9	4632.0	4626.9	4631.5	4629.2	4628.7
1°	4624.1	4629.5	4624.1	4628.4	4624.9	4623.9
1.5°	4619.5	4625.1	4619.5	4622.8	4617.5	4615.2
2°	4612.7	4620.5	4612.7	4615.0	4606.8	4603.8
2.5°	4603.5	4612.2	4603.5	4604.0	4593.8	4589.0
3°	4591.0	4601.0	4591.0	4590.8	4578.3	4572.0
3.5°	4575.3	4586.5	4575.3	4574.5	4560.5	4552.1
4°	4556.2	4568.4	4556.2	4555.2	4541.2	4530.0
4.5°	4534.3	4546.5	4534.3	4532.0	4518.3	4504.3
5°	4508.9	4520.6	4508.9	4505.6	4492.9	4475.3
5.5°	4480.4	4490.6	4480.4	4474.1	4463.9	4443.0
6°	4448.9	4455.2	4448.9	4439.2	4431.1	4407.7
6.5°	4413.5	4415.8	4413.5	4399.5	4394.2	4369.0
7°	4375.6	4372.1	4375.6	4356.5	4353.0	4328.3
7.5°	4334.2	4326.3	4334.2	4309.2	4307.7	4285.1
8°	4289.1	4276.9	4289.1	4259.9	4258.9	4238.8
8.5°	4239.8	4226.6	4239.8	4207.3	4204.7	4188.2
9°	4185.9	4173.2	4185.9	4152.8	4147.0	4134.3
9.5°	4127.4	4120.5	4127.4	4097.4	4083.9	4074.7
10°	4063.3	4065.3	4063.3	4039.4	4018.3	4011.4
10.5°	3995.4	4008.6	3995.4	3979.6	3948.6	3944.3
11°	3924.4	3946.6	3924.4	3917.6	3877.6	3875.8
11.5°	3851.2	3878.4	3851.2	3850.7	3805.7	3804.4
12°	3778.4	3805.1	3778.4	3777.2	3733.4	3732.4
12.5°	3704.4	3723.5	3704.4	3697.6	3662.7	3656.6
13°	3629.1	3641.6	3629.1	3615.4	3591.0	3582.1
13.5°	3549.3	3553.9	3549.3	3529.7	3517.0	3504.8
14°	3465.9	3465.6	3465.9	3444.2	3439.2	3426.9
14.5°	3381.4	3378.4	3381.4	3359.5	3355.7	3346.1
15°	3294.4	3290.6	3294.4	3274.6	3268.5	3262.4
15.5°	3207.7	3208.5	3207.7	3189.9	3176.4	3172.9
16°	3120.2	3124.0	3120.2	3104.4	3084.1	3081.8
16.5°	3033.5	3042.6	3033.5	3017.0	2992.8	2985.9
17°	2947.5	2959.2	2947.5	2927.9	2901.2	2893.1
17.5°	2858.5	2869.9	2858.5	2834.6	2810.4	2799.2
18°	2765.2	2775.1	2765.2	2739.2	2717.1	2708.9
18.5°	2665.5	2673.1	2665.5	2639.5	2622.5	2614.8
19°	2556.1	2564.0	2556.1	2536.8	2523.5	2518.5
19.5°	2442.9	2450.3	2442.9	2428.2	2418.2	2417.7
20°	2324.6	2320.8	2324.6	2316.5	2311.2	2311.2
20.5°	2204.6	2193.4	2204.6	2204.9	2202.6	2206.4
21°	2096.0	2092.4	2096.0	2086.6	2096.0	2098.5



TEST NUMBER: P776153

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1844.7	1836.1	1844.7	1825.1	1808.8	1796.9
23°	1778.1	1778.3	1778.1	1751.4	1734.6	1726.4
23.5°	1709.7	1713.0	1709.7	1684.0	1673.3	1674.6
24°	1651.9	1653.4	1651.9	1631.1	1624.5	1618.9
24.5°	1598.0	1598.0	1598.0	1584.8	1578.9	1576.1
25°	1557.6	1557.1	1557.6	1545.4	1539.3	1535.7
25.5°	1517.6	1518.4	1517.6	1506.2	1499.8	1498.0
26°	1476.4	1477.7	1476.4	1467.8	1463.2	1461.7
26.5°	1441.1	1441.8	1441.1	1433.2	1427.9	1427.3
27°	1409.5	1412.1	1409.5	1399.6	1394.0	1392.5
27.5°	1376.7	1380.3	1376.7	1367.1	1361.7	1359.7
28°	1342.9	1346.2	1342.9	1335.8	1330.7	1328.7
28.5°	1311.4	1314.2	1311.4	1305.8	1300.9	1299.9
29°	1281.6	1284.7	1281.6	1276.8	1272.2	1271.4
29.5°	1253.9	1256.4	1253.9	1248.5	1244.7	1243.2
30°	1225.9	1228.5	1225.9	1220.8	1217.3	1215.7
30.5°	1198.7	1200.5	1198.7	1193.9	1190.3	1189.0
31°	1172.5	1175.0	1172.5	1167.4	1164.1	1162.8
31.5°	1147.1	1148.8	1147.1	1142.5	1138.9	1137.7
32°	1122.4	1124.2	1122.4	1117.8	1114.5	1113.5
32.5°	1098.0	1099.5	1098.0	1093.7	1091.4	1090.3
33°	1071.8	1073.3	1071.8	1069.7	1068.5	1068.0
33.5°	1043.3	1045.6	1043.3	1044.3	1044.8	1044.8
34°	1013.8	1018.9	1013.8	1017.1	1017.6	1018.6
34.5°	983.5	987.3	983.5	987.8	988.1	990.4
35°	952.7	955.3	952.7	956.8	956.8	959.9
35.5°	920.2	921.7	920.2	923.8	925.3	926.6
36°	886.6	886.9	886.6	888.7	891.5	892.0
36.5°	851.0	849.5	851.0	852.3	856.4	855.3
37°	814.6	812.6	814.6	815.4	819.0	815.9
37.5°	776.7	776.0	776.7	778.0	779.0	776.7
38°	739.1	738.3	739.1	738.1	739.4	737.6
38.5°	698.2	700.2	698.2	697.9	697.4	698.4
39°	657.5	661.5	657.5	657.5	656.2	658.5
39.5°	618.5	621.6	618.5	617.0	615.2	616.5
40°	580.1	582.4	580.1	577.9	575.6	574.5
40.5°	543.3	543.0	543.3	537.7	535.4	532.8
41°	505.1	504.1	505.1	498.5	495.2	492.4
41.5°	467.5	465.7	467.5	459.6	455.3	451.7
42°	430.3	429.1	430.3	422.5	416.6	413.0
42.5°	394.7	394.0	394.7	386.6	379.0	375.7
43°	360.9	360.1	360.9	351.7	343.9	339.5
43.5°	326.3	327.1	326.3	317.4	309.5	307.2



TEST NUMBER: P776153

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	232.5	235.8	232.5	224.3	215.7	214.7
45.5°	204.2	208.6	204.2	197.1	187.4	185.2
46°	179.6	184.1	179.6	171.4	161.0	159.2
46.5°	157.2	162.5	157.2	147.0	138.9	135.8
47°	135.8	140.9	135.8	124.4	118.0	114.5
47.5°	115.5	119.3	115.5	105.6	99.7	96.1
48°	96.9	97.7	96.9	88.0	83.9	79.6
48.5°	80.4	79.1	80.4	72.7	69.4	65.6
49°	66.1	64.1	66.1	59.0	56.7	54.4
49.5°	53.2	50.9	53.2	48.8	46.3	45.5
50°	43.2	40.7	43.2	39.2	36.4	36.6
50.5°	34.3	32.0	34.3	30.3	28.7	27.7
51°	27.5	25.4	27.5	24.7	21.9	21.4
51.5°	22.9	22.6	22.9	19.6	18.1	16.0
52°	18.1	19.8	18.1	16.5	15.0	14.0
52.5°	15.3	16.8	15.3	14.2	13.0	12.7
53°	13.2	14.0	13.2	12.2	12.2	12.0
53.5°	11.4	11.2	11.4	11.7	11.4	11.4
54°	10.9	10.7	10.9	10.9	10.9	10.9
54.5°	10.4	10.2	10.4	10.4	10.4	10.4
55°	9.9	9.7	9.9	9.9	9.9	9.9
55.5°	9.4	9.2	9.4	9.4	9.4	9.4
56°	8.9	8.6	8.9	8.9	8.9	8.9
56.5°	8.4	8.1	8.4	8.6	8.4	8.4
57°	7.9	7.9	7.9	8.1	7.9	7.9
57.5°	7.4	7.4	7.4	7.6	7.6	7.4
58°	7.1	6.9	7.1	7.1	7.1	7.1
58.5°	6.6	6.6	6.6	6.9	6.9	6.6
59°	6.4	6.1	6.4	6.4	6.4	6.4
59.5°	6.1	5.8	6.1	6.1	6.1	5.8
60°	5.6	5.6	5.6	5.8	5.6	5.6
60.5°	5.3	5.3	5.3	5.6	5.3	5.3
61°	5.1	5.1	5.1	5.1	5.1	5.1
61.5°	4.8	4.8	4.8	4.8	4.8	4.8
62°	4.6	4.6	4.6	4.6	4.6	4.6
62.5°	4.3	4.3	4.3	4.3	4.3	4.3
63°	4.1	4.1	4.1	4.1	4.1	4.1
63.5°	3.8	3.8	3.8	4.1	3.8	3.8
64°	3.8	3.6	3.8	3.8	3.6	3.6
64.5°	3.6	3.3	3.6	3.6	3.6	3.3
65°	3.3	3.3	3.3	3.3	3.3	3.3
65.5°	3.1	3.1	3.1	3.3	3.1	3.1
66°	3.1	3.1	3.1	3.1	3.1	2.8



TEST NUMBER: P776153

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.5	2.5	2.5	2.5	2.5	2.5
68°	2.5	2.3	2.5	2.5	2.3	2.3
68.5°	2.3	2.3	2.3	2.3	2.3	2.3
69°	2.3	2.0	2.3	2.3	2.0	2.0
69.5°	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	1.8	1.8
70.5°	1.8	1.8	1.8	1.8	1.8	1.8
71°	1.8	1.8	1.8	1.8	1.8	1.8
71.5°	1.8	1.5	1.8	1.8	1.5	1.5
72°	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5
73°	1.5	1.3	1.5	1.3	1.3	1.3
73.5°	1.3	1.3	1.3	1.3	1.3	1.3
74°	1.3	1.3	1.3	1.3	1.3	1.3
74.5°	1.3	1.3	1.3	1.3	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	1.0	1.0	1.0	0.8	0.8	0.8
77°	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.8	0.8	0.8	0.8	0.5	0.5
79°	0.8	0.5	0.8	0.5	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.5	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.0	0.0
85.5°	0.3	0.3	0.3	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: P776153
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-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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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	1988.7	1987.4	1991.0	2002.1	2000.6	2002.1	1991.0	1987.4	1988.7	1987.4	1991.0
22°	1877.0	1894.8	1903.2	1918.0	1916.2	1918.0	1903.2	1894.8	1877.0	1894.8	1903.2



44°	275.4	277.5	284.6	293.5	294.5	293.5	284.6	277.5	275.4	277.5	284.6
44.5°	244.7	245.9	252.8	262.0	264.5	262.0	252.8	245.9	244.7	245.9	252.8



66.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67°	2.5	2.5	2.8	2.8	2.5	2.8	2.8	2.5	2.5	2.5	2.8



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°	2002.1	2000.6	2002.1	1991.0	1987.4	1988.7
22°	1918.0	1916.2	1918.0	1903.2	1894.8	1877.0



44°	293.5	294.5	293.5	284.6	277.5	275.4
44.5°	262.0	264.5	262.0	252.8	245.9	244.7



66.5°	2.8	2.8	2.8	2.8	2.8	2.8
67°	2.8	2.5	2.8	2.8	2.5	2.5

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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)