

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: P776025

Luminaire Tested: HCDJBS1525CSD-HCD61TRC-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B035-HCD61TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD61TRC-2500lm-2700K
Description: 6 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

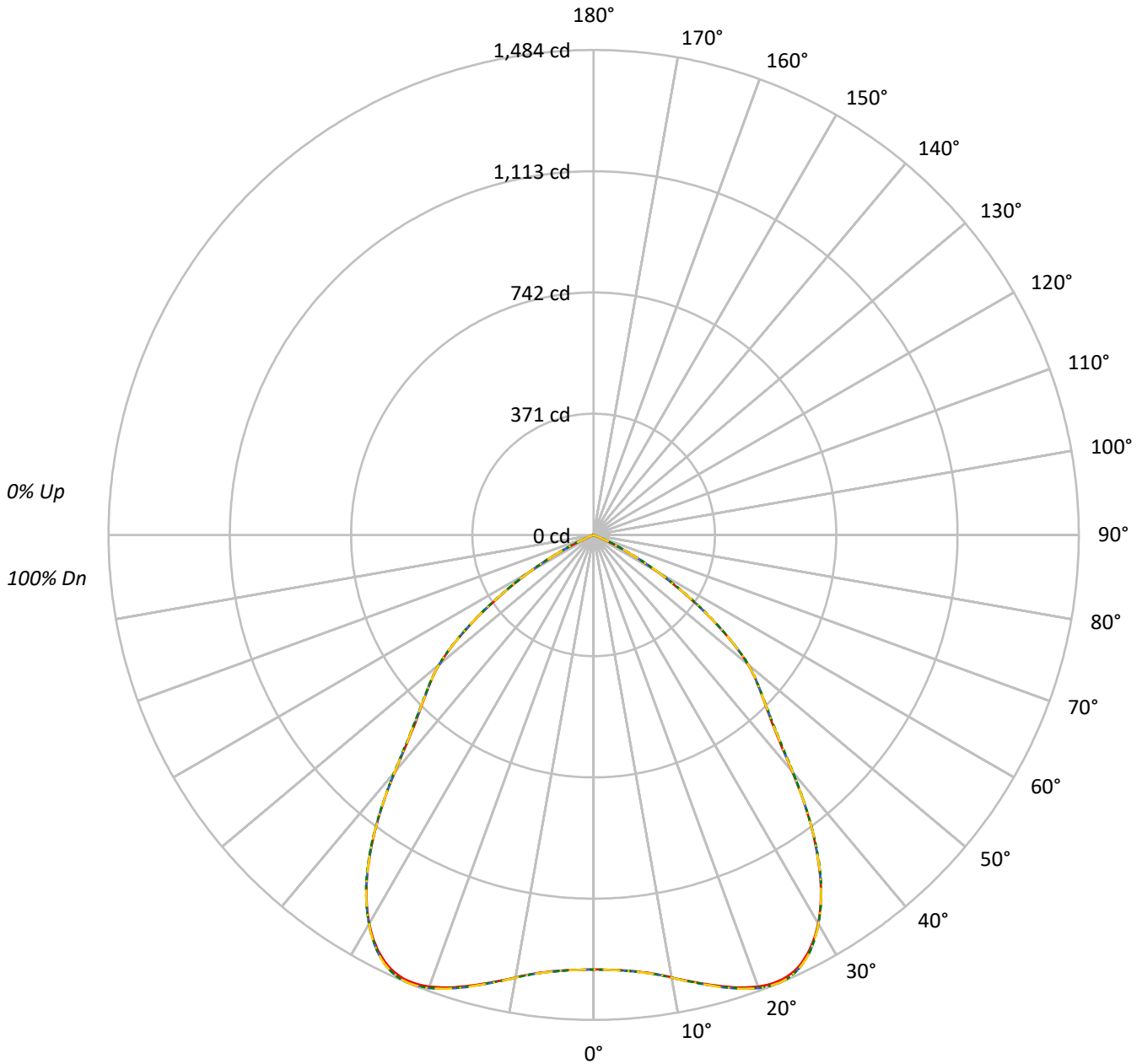
Lumens per Lamp: N/A
Luminaire Lumens: 2989.6 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.3
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P776025
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P776025

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRC-2500lm-2700K

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80																			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50																			
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45																			
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	72933	72933	72933	72933
5°	73734	73784	73734	73784
10°	76552	76580	76552	76580
15°	80994	81073	80994	81073
20°	85798	86037	85798	86037
25°	88650	89013	88650	89013
30°	86918	87020	86918	87020
35°	79792	80053	79792	80053
40°	67641	67920	67641	67920
45°	57936	58239	57936	58239
50°	52561	52681	52561	52681
55°	40467	40887	40467	40887
60°	24384	25151	24384	25151
65°	7640	9742	7640	9742
70°	32	385	32	385
75°	0	42	0	42
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 58239 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	4.3
10°-20°	406.3	13.6
20°-30°	671.7	22.5
30°-40°	737.3	24.7
40°-50°	585.5	19.6
50°-60°	377.1	12.6
60°-70°	82.6	2.8
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°	1207.0	40.4
0°-40°	1944.3	65.0
0°-60°	2906.8	97.2
0°-90°	2989.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1330	1330	1330	1330	1330	
5°	1340	1341	1340	1341	1340	129
15°	1427	1428	1427	1428	1427	406
25°	1466	1472	1466	1472	1466	670
35°	1192	1196	1192	1196	1192	737
45°	747	751	747	751	747	584
55°	423	428	423	428	423	375
65°	59	75	59	75	59	75
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776025

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRC-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1330.4	1330.4	1330.4	1330.4	1330.4	1330.4	1330.4	1330.4	1330.4	1330.4	1330.4
0.5°	1329.9	1330.4	1330.7	1330.9	1330.7	1330.9	1330.7	1330.4	1329.9	1330.4	1330.7
1°	1330.4	1330.7	1330.9	1331.1	1330.9	1331.1	1330.9	1330.7	1330.4	1330.7	1330.9
1.5°	1330.9	1331.1	1331.4	1331.6	1331.4	1331.6	1331.4	1331.1	1330.9	1331.1	1331.4
2°	1331.6	1331.9	1332.1	1332.1	1331.9	1332.1	1332.1	1331.9	1331.6	1331.9	1332.1
2.5°	1332.4	1332.6	1333.1	1333.1	1332.8	1333.1	1333.1	1332.6	1332.4	1332.6	1333.1
3°	1333.6	1333.8	1334.1	1334.1	1333.8	1334.1	1334.1	1333.8	1333.6	1333.8	1334.1
3.5°	1334.8	1335.0	1335.5	1335.5	1335.3	1335.5	1335.5	1335.0	1334.8	1335.0	1335.5
4°	1336.2	1336.5	1337.0	1337.2	1337.0	1337.2	1337.0	1336.5	1336.2	1336.5	1337.0
4.5°	1337.9	1338.2	1338.7	1338.9	1338.7	1338.9	1338.7	1338.2	1337.9	1338.2	1338.7
5°	1339.9	1340.1	1340.6	1340.8	1340.8	1340.8	1340.6	1340.1	1339.9	1340.1	1340.6
5.5°	1341.8	1342.3	1342.8	1343.3	1343.0	1343.3	1342.8	1342.3	1341.8	1342.3	1342.8
6°	1344.2	1344.5	1345.2	1345.7	1345.4	1345.7	1345.2	1344.5	1344.2	1344.5	1345.2
6.5°	1346.9	1347.1	1347.9	1348.1	1347.9	1348.1	1347.9	1347.1	1346.9	1347.1	1347.9
7°	1349.8	1350.0	1350.8	1351.0	1350.8	1351.0	1350.8	1350.0	1349.8	1350.0	1350.8
7.5°	1353.2	1353.4	1354.2	1354.2	1353.9	1354.2	1354.2	1353.4	1353.2	1353.4	1354.2
8°	1356.6	1357.1	1357.8	1358.0	1357.8	1358.0	1357.8	1357.1	1356.6	1357.1	1357.8
8.5°	1360.7	1361.2	1362.2	1362.2	1361.9	1362.2	1362.2	1361.2	1360.7	1361.2	1362.2
9°	1365.3	1365.8	1366.5	1366.8	1366.3	1366.8	1366.5	1365.8	1365.3	1365.8	1366.5
9.5°	1370.1	1370.6	1371.4	1371.6	1370.9	1371.6	1371.4	1370.6	1370.1	1370.6	1371.4
10°	1375.2	1375.7	1376.4	1376.4	1375.7	1376.4	1376.4	1375.7	1375.2	1375.7	1376.4
10.5°	1380.3	1380.8	1381.3	1381.3	1380.8	1381.3	1381.3	1380.8	1380.3	1380.8	1381.3
11°	1385.4	1386.1	1386.6	1386.6	1385.9	1386.4	1386.6	1386.1	1385.4	1386.1	1386.6
11.5°	1390.7	1391.2	1391.7	1391.5	1391.0	1391.5	1391.7	1391.2	1390.7	1391.2	1391.7
12°	1395.8	1396.3	1396.8	1396.8	1396.3	1396.8	1396.8	1396.3	1395.8	1396.3	1396.8
12.5°	1400.9	1401.6	1402.1	1402.1	1401.6	1402.1	1402.1	1401.6	1400.9	1401.6	1402.1
13°	1406.0	1407.0	1407.5	1407.5	1407.0	1407.5	1407.5	1407.0	1406.0	1407.0	1407.5
13.5°	1411.3	1412.3	1413.0	1412.8	1412.3	1412.8	1413.0	1412.3	1411.3	1412.3	1413.0
14°	1416.4	1417.6	1418.6	1418.6	1417.6	1418.6	1418.6	1417.6	1416.4	1417.6	1418.6
14.5°	1421.7	1423.0	1423.9	1424.2	1423.2	1424.2	1423.9	1423.0	1421.7	1423.0	1423.9
15°	1427.1	1428.3	1429.5	1429.7	1428.5	1429.7	1429.5	1428.3	1427.1	1428.3	1429.5
15.5°	1432.2	1433.6	1435.1	1435.1	1433.9	1435.1	1435.1	1433.6	1432.2	1433.6	1435.1
16°	1437.2	1438.9	1440.4	1440.4	1439.2	1440.4	1440.4	1438.9	1437.2	1438.9	1440.4
16.5°	1442.1	1443.8	1445.5	1445.5	1444.3	1445.5	1445.5	1443.8	1442.1	1443.8	1445.5
17°	1447.2	1448.9	1450.6	1450.6	1449.1	1450.6	1450.6	1448.9	1447.2	1448.9	1450.6
17.5°	1451.8	1453.7	1455.4	1455.4	1454.0	1455.4	1455.4	1453.7	1451.8	1453.7	1455.4
18°	1456.1	1458.3	1460.0	1460.0	1458.8	1460.0	1460.0	1458.3	1456.1	1458.3	1460.0
18.5°	1460.3	1462.7	1464.4	1464.4	1463.2	1464.4	1464.4	1462.7	1460.3	1462.7	1464.4
19°	1464.1	1466.6	1468.5	1468.3	1467.3	1468.3	1468.5	1466.6	1464.1	1466.6	1468.5
19.5°	1467.5	1470.0	1472.4	1471.9	1471.2	1471.9	1472.4	1470.0	1467.5	1470.0	1472.4
20°	1470.7	1473.1	1475.8	1475.0	1474.8	1475.0	1475.8	1473.1	1470.7	1473.1	1475.8
20.5°	1473.3	1475.8	1478.4	1477.7	1477.7	1477.7	1478.4	1475.8	1473.3	1475.8	1478.4
21°	1475.3	1477.7	1480.6	1479.6	1480.1	1479.6	1480.6	1477.7	1475.3	1477.7	1480.6



TEST NUMBER: P776025

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1477.7	1479.9	1483.3	1482.1	1483.5	1482.1	1483.3	1479.9	1477.7	1479.9	1483.3
23°	1477.2	1479.2	1482.8	1481.3	1483.0	1481.3	1482.8	1479.2	1477.2	1479.2	1482.8
23.5°	1475.8	1477.7	1481.3	1479.6	1481.8	1479.6	1481.3	1477.7	1475.8	1477.7	1481.3
24°	1473.3	1475.3	1478.9	1477.5	1479.4	1477.5	1478.9	1475.3	1473.3	1475.3	1478.9
24.5°	1470.0	1471.9	1475.5	1474.3	1476.0	1474.3	1475.5	1471.9	1470.0	1471.9	1475.5
25°	1465.6	1467.8	1471.2	1470.2	1471.6	1470.2	1471.2	1467.8	1465.6	1467.8	1471.2
25.5°	1460.7	1462.7	1466.1	1465.3	1466.1	1465.3	1466.1	1462.7	1460.7	1462.7	1466.1
26°	1454.7	1456.6	1459.8	1459.5	1459.8	1459.5	1459.8	1456.6	1454.7	1456.6	1459.8
26.5°	1447.2	1449.4	1452.5	1452.8	1452.3	1452.8	1452.5	1449.4	1447.2	1449.4	1452.5
27°	1439.4	1441.6	1444.3	1445.0	1443.8	1445.0	1444.3	1441.6	1439.4	1441.6	1444.3
27.5°	1430.5	1432.6	1435.1	1436.3	1434.3	1436.3	1435.1	1432.6	1430.5	1432.6	1435.1
28°	1420.5	1422.7	1424.7	1426.6	1423.9	1426.6	1424.7	1422.7	1420.5	1422.7	1424.7
28.5°	1410.1	1411.8	1413.8	1416.2	1412.8	1416.2	1413.8	1411.8	1410.1	1411.8	1413.8
29°	1398.5	1400.2	1401.6	1404.5	1400.9	1404.5	1401.6	1400.2	1398.5	1400.2	1401.6
29.5°	1386.1	1387.6	1389.3	1391.7	1388.3	1391.7	1389.3	1387.6	1386.1	1387.6	1389.3
30°	1373.1	1374.0	1375.2	1378.1	1374.7	1378.1	1375.2	1374.0	1373.1	1374.0	1375.2
30.5°	1359.0	1359.5	1360.9	1363.8	1360.5	1363.8	1360.9	1359.5	1359.0	1359.5	1360.9
31°	1343.7	1344.2	1345.7	1348.3	1345.4	1348.3	1345.7	1344.2	1343.7	1344.2	1345.7
31.5°	1328.0	1328.0	1329.7	1331.9	1329.7	1331.9	1329.7	1328.0	1328.0	1328.0	1329.7
32°	1311.3	1311.0	1312.5	1314.7	1313.2	1314.7	1312.5	1311.0	1311.3	1311.0	1312.5
32.5°	1293.6	1293.1	1295.1	1296.5	1296.0	1296.5	1295.1	1293.1	1293.6	1293.1	1295.1
33°	1275.2	1274.7	1276.4	1277.6	1277.9	1277.6	1276.4	1274.7	1275.2	1274.7	1276.4
33.5°	1255.8	1254.8	1257.0	1257.7	1258.5	1257.7	1257.0	1254.8	1255.8	1254.8	1257.0
34°	1235.7	1234.7	1236.7	1236.9	1238.8	1236.9	1236.7	1234.7	1235.7	1234.7	1236.7
34.5°	1214.1	1214.1	1215.4	1215.6	1217.8	1215.6	1215.4	1214.1	1214.1	1214.1	1215.4
35°	1192.3	1192.1	1193.3	1193.8	1196.2	1193.8	1193.3	1192.1	1192.3	1192.1	1193.3
35.5°	1170.1	1170.1	1171.0	1171.5	1173.9	1171.5	1171.0	1170.1	1170.1	1170.1	1171.0
36°	1147.3	1147.3	1148.0	1148.7	1150.4	1148.7	1148.0	1147.3	1147.3	1147.3	1148.0
36.5°	1123.8	1124.0	1124.5	1125.0	1126.9	1125.0	1124.5	1124.0	1123.8	1124.0	1124.5
37°	1099.3	1099.8	1100.0	1100.8	1102.2	1100.8	1100.0	1099.8	1099.3	1099.8	1100.0
37.5°	1074.8	1075.1	1075.6	1076.3	1077.0	1076.3	1075.6	1075.1	1074.8	1075.1	1075.6
38°	1049.9	1049.9	1050.6	1051.1	1051.8	1051.1	1050.6	1049.9	1049.9	1049.9	1050.6
38.5°	1024.5	1024.5	1025.2	1025.7	1026.2	1025.7	1025.2	1024.5	1024.5	1024.5	1025.2
39°	998.5	998.5	999.5	1000.2	1000.5	1000.2	999.5	998.5	998.5	998.5	999.5
39.5°	971.9	972.1	973.1	974.6	974.8	974.6	973.1	972.1	971.9	972.1	973.1
40°	945.2	945.5	947.2	948.4	949.1	948.4	947.2	945.5	945.2	945.5	947.2
40.5°	919.1	919.6	921.7	923.9	924.4	923.9	921.7	919.6	919.1	919.6	921.7
41°	894.4	895.1	897.3	899.7	900.7	899.7	897.3	895.1	894.4	895.1	897.3
41.5°	871.1	872.1	874.0	876.4	877.2	876.4	874.0	872.1	871.1	872.1	874.0
42°	849.8	850.3	852.2	853.9	855.4	853.9	852.2	850.3	849.8	850.3	852.2
42.5°	829.9	830.2	832.6	834.3	835.3	834.3	832.6	830.2	829.9	830.2	832.6
43°	810.6	810.8	813.5	815.4	817.6	815.4	813.5	810.8	810.6	810.8	813.5
43.5°	792.6	793.4	795.3	797.2	798.9	797.2	795.3	793.4	792.6	793.4	795.3



TEST NUMBER: P776025

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	747.3	747.3	749.0	749.8	751.2	749.8	749.0	747.3	747.3	747.3	749.0
45.5°	733.5	733.5	735.2	735.9	736.7	735.9	735.2	733.5	733.5	733.5	735.2
46°	720.2	720.4	721.7	722.6	723.1	722.6	721.7	720.4	720.2	720.4	721.7
46.5°	707.4	707.4	708.6	709.3	710.3	709.3	708.6	707.4	707.4	707.4	708.6
47°	694.8	694.8	695.7	696.7	697.4	696.7	695.7	694.8	694.8	694.8	695.7
47.5°	682.2	682.2	683.4	684.1	684.3	684.1	683.4	682.2	682.2	682.2	683.4
48°	670.1	669.8	671.0	671.7	672.2	671.7	671.0	669.8	670.1	669.8	671.0
48.5°	657.5	657.5	658.4	659.4	659.6	659.4	658.4	657.5	657.5	657.5	658.4
49°	644.4	644.6	645.6	646.3	646.8	646.3	645.6	644.6	644.4	644.6	645.6
49.5°	631.1	630.8	632.0	632.7	633.0	632.7	632.0	630.8	631.1	630.8	632.0
50°	616.3	616.3	617.0	617.7	617.7	617.7	617.0	616.3	616.3	616.3	617.0
50.5°	600.0	600.0	600.5	601.5	601.5	601.5	600.5	600.0	600.0	600.0	600.5
51°	582.8	582.6	583.3	584.1	584.8	584.1	583.3	582.6	582.8	582.6	583.3
51.5°	564.7	564.4	565.4	566.4	566.6	566.4	565.4	564.4	564.7	564.4	565.4
52°	545.8	546.0	546.8	547.5	548.0	547.5	546.8	546.0	545.8	546.0	546.8
52.5°	526.4	526.2	527.4	528.3	528.6	528.3	527.4	526.2	526.4	526.2	527.4
53°	506.1	506.3	507.5	508.7	508.5	508.7	507.5	506.3	506.1	506.3	507.5
53.5°	485.7	485.9	487.4	488.4	488.9	488.4	487.4	485.9	485.7	485.9	487.4
54°	464.9	465.4	466.8	467.8	468.0	467.8	466.8	465.4	464.9	465.4	466.8
54.5°	444.3	444.3	446.2	447.4	447.9	447.4	446.2	444.3	444.3	444.3	446.2
55°	423.4	423.7	425.9	426.8	427.8	426.8	425.9	423.7	423.4	423.7	425.9
55.5°	402.1	402.6	404.8	406.2	407.2	406.2	404.8	402.6	402.1	402.6	404.8
56°	381.1	381.8	384.2	385.4	386.6	385.4	384.2	381.8	381.1	381.8	384.2
56.5°	360.2	360.9	363.4	364.8	366.0	364.8	363.4	360.9	360.2	360.9	363.4
57°	339.4	340.6	342.8	344.5	345.7	344.5	342.8	340.6	339.4	340.6	342.8
57.5°	319.0	320.2	322.4	324.4	325.6	324.4	322.4	320.2	319.0	320.2	322.4
58°	298.9	299.9	302.3	304.7	305.7	304.7	302.3	299.9	298.9	299.9	302.3
58.5°	278.8	280.3	282.7	285.6	286.3	285.6	282.7	280.3	278.8	280.3	282.7
59°	259.4	261.1	263.1	266.2	267.0	266.2	263.1	261.1	259.4	261.1	263.1
59.5°	240.8	242.0	244.2	247.3	248.1	247.3	244.2	242.0	240.8	242.0	244.2
60°	222.4	223.4	225.5	228.4	229.4	228.4	225.5	223.4	222.4	223.4	225.5
60.5°	204.0	204.9	207.1	210.0	211.5	210.0	207.1	204.9	204.0	204.9	207.1
61°	186.0	187.0	189.7	192.3	193.8	192.3	189.7	187.0	186.0	187.0	189.7
61.5°	167.9	169.8	172.5	175.1	177.3	175.1	172.5	169.8	167.9	169.8	172.5
62°	150.7	153.1	155.8	158.7	160.9	158.7	155.8	153.1	150.7	153.1	155.8
62.5°	133.5	136.6	139.5	142.4	144.9	142.4	139.5	136.6	133.5	136.6	139.5
63°	116.8	121.1	123.8	126.7	129.4	126.7	123.8	121.1	116.8	121.1	123.8
63.5°	100.8	106.3	109.3	111.9	114.8	111.9	109.3	106.3	100.8	106.3	109.3
64°	85.3	92.5	95.9	98.4	101.3	98.4	95.9	92.5	85.3	92.5	95.9
64.5°	71.5	79.9	83.1	85.3	88.2	85.3	83.1	79.9	71.5	79.9	83.1
65°	58.9	67.8	71.0	72.9	75.1	72.9	71.0	67.8	58.9	67.8	71.0
65.5°	47.0	57.2	59.8	60.8	62.7	60.8	59.8	57.2	47.0	57.2	59.8
66°	36.8	47.5	49.4	50.9	51.8	50.9	49.4	47.5	36.8	47.5	49.4



TEST NUMBER: P776025

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	11.4	22.0	23.7	25.2	26.6	25.2	23.7	22.0	11.4	22.0	23.7
68°	6.8	15.5	17.0	18.9	21.8	18.9	17.0	15.5	6.8	15.5	17.0
68.5°	4.1	10.2	12.1	13.3	17.0	13.3	12.1	10.2	4.1	10.2	12.1
69°	2.4	6.1	7.5	8.5	12.1	8.5	7.5	6.1	2.4	6.1	7.5
69.5°	1.5	3.9	4.4	4.4	7.3	4.4	4.4	3.9	1.5	3.9	4.4
70°	0.2	1.9	2.4	2.4	2.4	2.4	2.4	1.9	0.2	1.9	2.4
70.5°	0.2	0.7	1.5	1.5	1.0	1.5	1.5	0.7	0.2	0.7	1.5
71°	0.2	0.2	0.7	0.7	0.2	0.7	0.7	0.2	0.2	0.2	0.7
71.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
75.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.2	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: P776025
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-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: P776025

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1330.4	1330.4	1330.4	1330.4	1330.4	1330.4
0.5°	1330.9	1330.7	1330.9	1330.7	1330.4	1329.9
1°	1331.1	1330.9	1331.1	1330.9	1330.7	1330.4
1.5°	1331.6	1331.4	1331.6	1331.4	1331.1	1330.9
2°	1332.1	1331.9	1332.1	1332.1	1331.9	1331.6
2.5°	1333.1	1332.8	1333.1	1333.1	1332.6	1332.4
3°	1334.1	1333.8	1334.1	1334.1	1333.8	1333.6
3.5°	1335.5	1335.3	1335.5	1335.5	1335.0	1334.8
4°	1337.2	1337.0	1337.2	1337.0	1336.5	1336.2
4.5°	1338.9	1338.7	1338.9	1338.7	1338.2	1337.9
5°	1340.8	1340.8	1340.8	1340.6	1340.1	1339.9
5.5°	1343.3	1343.0	1343.3	1342.8	1342.3	1341.8
6°	1345.7	1345.4	1345.7	1345.2	1344.5	1344.2
6.5°	1348.1	1347.9	1348.1	1347.9	1347.1	1346.9
7°	1351.0	1350.8	1351.0	1350.8	1350.0	1349.8
7.5°	1354.2	1353.9	1354.2	1354.2	1353.4	1353.2
8°	1358.0	1357.8	1358.0	1357.8	1357.1	1356.6
8.5°	1362.2	1361.9	1362.2	1362.2	1361.2	1360.7
9°	1366.8	1366.3	1366.8	1366.5	1365.8	1365.3
9.5°	1371.6	1370.9	1371.6	1371.4	1370.6	1370.1
10°	1376.4	1375.7	1376.4	1376.4	1375.7	1375.2
10.5°	1381.3	1380.8	1381.3	1381.3	1380.8	1380.3
11°	1386.4	1385.9	1386.4	1386.6	1386.1	1385.4
11.5°	1391.5	1391.0	1391.5	1391.7	1391.2	1390.7
12°	1396.8	1396.3	1396.8	1396.8	1396.3	1395.8
12.5°	1402.1	1401.6	1402.1	1402.1	1401.6	1400.9
13°	1407.5	1407.0	1407.5	1407.5	1407.0	1406.0
13.5°	1412.8	1412.3	1412.8	1413.0	1412.3	1411.3
14°	1418.6	1417.6	1418.6	1418.6	1417.6	1416.4
14.5°	1424.2	1423.2	1424.2	1423.9	1423.0	1421.7
15°	1429.7	1428.5	1429.7	1429.5	1428.3	1427.1
15.5°	1435.1	1433.9	1435.1	1435.1	1433.6	1432.2
16°	1440.4	1439.2	1440.4	1440.4	1438.9	1437.2
16.5°	1445.5	1444.3	1445.5	1445.5	1443.8	1442.1
17°	1450.6	1449.1	1450.6	1450.6	1448.9	1447.2
17.5°	1455.4	1454.0	1455.4	1455.4	1453.7	1451.8
18°	1460.0	1458.8	1460.0	1460.0	1458.3	1456.1
18.5°	1464.4	1463.2	1464.4	1464.4	1462.7	1460.3
19°	1468.3	1467.3	1468.3	1468.5	1466.6	1464.1
19.5°	1471.9	1471.2	1471.9	1472.4	1470.0	1467.5
20°	1475.0	1474.8	1475.0	1475.8	1473.1	1470.7
20.5°	1477.7	1477.7	1477.7	1478.4	1475.8	1473.3
21°	1479.6	1480.1	1479.6	1480.6	1477.7	1475.3



TEST NUMBER: P776025

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1482.1	1483.5	1482.1	1483.3	1479.9	1477.7
23°	1481.3	1483.0	1481.3	1482.8	1479.2	1477.2
23.5°	1479.6	1481.8	1479.6	1481.3	1477.7	1475.8
24°	1477.5	1479.4	1477.5	1478.9	1475.3	1473.3
24.5°	1474.3	1476.0	1474.3	1475.5	1471.9	1470.0
25°	1470.2	1471.6	1470.2	1471.2	1467.8	1465.6
25.5°	1465.3	1466.1	1465.3	1466.1	1462.7	1460.7
26°	1459.5	1459.8	1459.5	1459.8	1456.6	1454.7
26.5°	1452.8	1452.3	1452.8	1452.5	1449.4	1447.2
27°	1445.0	1443.8	1445.0	1444.3	1441.6	1439.4
27.5°	1436.3	1434.3	1436.3	1435.1	1432.6	1430.5
28°	1426.6	1423.9	1426.6	1424.7	1422.7	1420.5
28.5°	1416.2	1412.8	1416.2	1413.8	1411.8	1410.1
29°	1404.5	1400.9	1404.5	1401.6	1400.2	1398.5
29.5°	1391.7	1388.3	1391.7	1389.3	1387.6	1386.1
30°	1378.1	1374.7	1378.1	1375.2	1374.0	1373.1
30.5°	1363.8	1360.5	1363.8	1360.9	1359.5	1359.0
31°	1348.3	1345.4	1348.3	1345.7	1344.2	1343.7
31.5°	1331.9	1329.7	1331.9	1329.7	1328.0	1328.0
32°	1314.7	1313.2	1314.7	1312.5	1311.0	1311.3
32.5°	1296.5	1296.0	1296.5	1295.1	1293.1	1293.6
33°	1277.6	1277.9	1277.6	1276.4	1274.7	1275.2
33.5°	1257.7	1258.5	1257.7	1257.0	1254.8	1255.8
34°	1236.9	1238.8	1236.9	1236.7	1234.7	1235.7
34.5°	1215.6	1217.8	1215.6	1215.4	1214.1	1214.1
35°	1193.8	1196.2	1193.8	1193.3	1192.1	1192.3
35.5°	1171.5	1173.9	1171.5	1171.0	1170.1	1170.1
36°	1148.7	1150.4	1148.7	1148.0	1147.3	1147.3
36.5°	1125.0	1126.9	1125.0	1124.5	1124.0	1123.8
37°	1100.8	1102.2	1100.8	1100.0	1099.8	1099.3
37.5°	1076.3	1077.0	1076.3	1075.6	1075.1	1074.8
38°	1051.1	1051.8	1051.1	1050.6	1049.9	1049.9
38.5°	1025.7	1026.2	1025.7	1025.2	1024.5	1024.5
39°	1000.2	1000.5	1000.2	999.5	998.5	998.5
39.5°	974.6	974.8	974.6	973.1	972.1	971.9
40°	948.4	949.1	948.4	947.2	945.5	945.2
40.5°	923.9	924.4	923.9	921.7	919.6	919.1
41°	899.7	900.7	899.7	897.3	895.1	894.4
41.5°	876.4	877.2	876.4	874.0	872.1	871.1
42°	853.9	855.4	853.9	852.2	850.3	849.8
42.5°	834.3	835.3	834.3	832.6	830.2	829.9
43°	815.4	817.6	815.4	813.5	810.8	810.6
43.5°	797.2	798.9	797.2	795.3	793.4	792.6

TEST NUMBER: P776025

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	749.8	751.2	749.8	749.0	747.3	747.3
45.5°	735.9	736.7	735.9	735.2	733.5	733.5
46°	722.6	723.1	722.6	721.7	720.4	720.2
46.5°	709.3	710.3	709.3	708.6	707.4	707.4
47°	696.7	697.4	696.7	695.7	694.8	694.8
47.5°	684.1	684.3	684.1	683.4	682.2	682.2
48°	671.7	672.2	671.7	671.0	669.8	670.1
48.5°	659.4	659.6	659.4	658.4	657.5	657.5
49°	646.3	646.8	646.3	645.6	644.6	644.4
49.5°	632.7	633.0	632.7	632.0	630.8	631.1
50°	617.7	617.7	617.7	617.0	616.3	616.3
50.5°	601.5	601.5	601.5	600.5	600.0	600.0
51°	584.1	584.8	584.1	583.3	582.6	582.8
51.5°	566.4	566.6	566.4	565.4	564.4	564.7
52°	547.5	548.0	547.5	546.8	546.0	545.8
52.5°	528.3	528.6	528.3	527.4	526.2	526.4
53°	508.7	508.5	508.7	507.5	506.3	506.1
53.5°	488.4	488.9	488.4	487.4	485.9	485.7
54°	467.8	468.0	467.8	466.8	465.4	464.9
54.5°	447.4	447.9	447.4	446.2	444.3	444.3
55°	426.8	427.8	426.8	425.9	423.7	423.4
55.5°	406.2	407.2	406.2	404.8	402.6	402.1
56°	385.4	386.6	385.4	384.2	381.8	381.1
56.5°	364.8	366.0	364.8	363.4	360.9	360.2
57°	344.5	345.7	344.5	342.8	340.6	339.4
57.5°	324.4	325.6	324.4	322.4	320.2	319.0
58°	304.7	305.7	304.7	302.3	299.9	298.9
58.5°	285.6	286.3	285.6	282.7	280.3	278.8
59°	266.2	267.0	266.2	263.1	261.1	259.4
59.5°	247.3	248.1	247.3	244.2	242.0	240.8
60°	228.4	229.4	228.4	225.5	223.4	222.4
60.5°	210.0	211.5	210.0	207.1	204.9	204.0
61°	192.3	193.8	192.3	189.7	187.0	186.0
61.5°	175.1	177.3	175.1	172.5	169.8	167.9
62°	158.7	160.9	158.7	155.8	153.1	150.7
62.5°	142.4	144.9	142.4	139.5	136.6	133.5
63°	126.7	129.4	126.7	123.8	121.1	116.8
63.5°	111.9	114.8	111.9	109.3	106.3	100.8
64°	98.4	101.3	98.4	95.9	92.5	85.3
64.5°	85.3	88.2	85.3	83.1	79.9	71.5
65°	72.9	75.1	72.9	71.0	67.8	58.9
65.5°	60.8	62.7	60.8	59.8	57.2	47.0
66°	50.9	51.8	50.9	49.4	47.5	36.8



TEST NUMBER: P776025
 CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	25.2	26.6	25.2	23.7	22.0	11.4
68°	18.9	21.8	18.9	17.0	15.5	6.8
68.5°	13.3	17.0	13.3	12.1	10.2	4.1
69°	8.5	12.1	8.5	7.5	6.1	2.4
69.5°	4.4	7.3	4.4	4.4	3.9	1.5
70°	2.4	2.4	2.4	2.4	1.9	0.2
70.5°	1.5	1.0	1.5	1.5	0.7	0.2
71°	0.7	0.2	0.7	0.7	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.0	0.0
75.5°	0.2	0.2	0.2	0.0	0.0	0.0
76°	0.0	0.2	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: P776025
CATALOG NUMBER: HCDJBL1525CSD-HCD61TRC-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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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	1477.0	1479.2	1482.3	1481.1	1482.1	1481.1	1482.3	1479.2	1477.0	1479.2	1482.3
22°	1477.7	1479.9	1483.3	1481.8	1483.0	1481.8	1483.3	1479.9	1477.7	1479.9	1483.3



44°	776.4	776.9	778.8	780.0	782.0	780.0	778.8	776.9	776.4	776.9	778.8
44.5°	761.6	761.9	763.6	764.5	765.7	764.5	763.6	761.9	761.6	761.9	763.6



66.5°	26.9	37.8	40.2	41.7	41.9	41.7	40.2	37.8	26.9	37.8	40.2
67°	18.7	29.8	31.2	32.7	32.9	32.7	31.2	29.8	18.7	29.8	31.2



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°	1481.1	1482.1	1481.1	1482.3	1479.2	1477.0
22°	1481.8	1483.0	1481.8	1483.3	1479.9	1477.7



44°	780.0	782.0	780.0	778.8	776.9	776.4
44.5°	764.5	765.7	764.5	763.6	761.9	761.6



66.5°	41.7	41.9	41.7	40.2	37.8	26.9
67°	32.7	32.9	32.7	31.2	29.8	18.7

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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)