

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: P776171

Luminaire Tested: HCDJBS1525CSD-HCD82TRMW-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B064-HCD82TRMW)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD82TRMW-2500lm-3000K
Description: 8 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

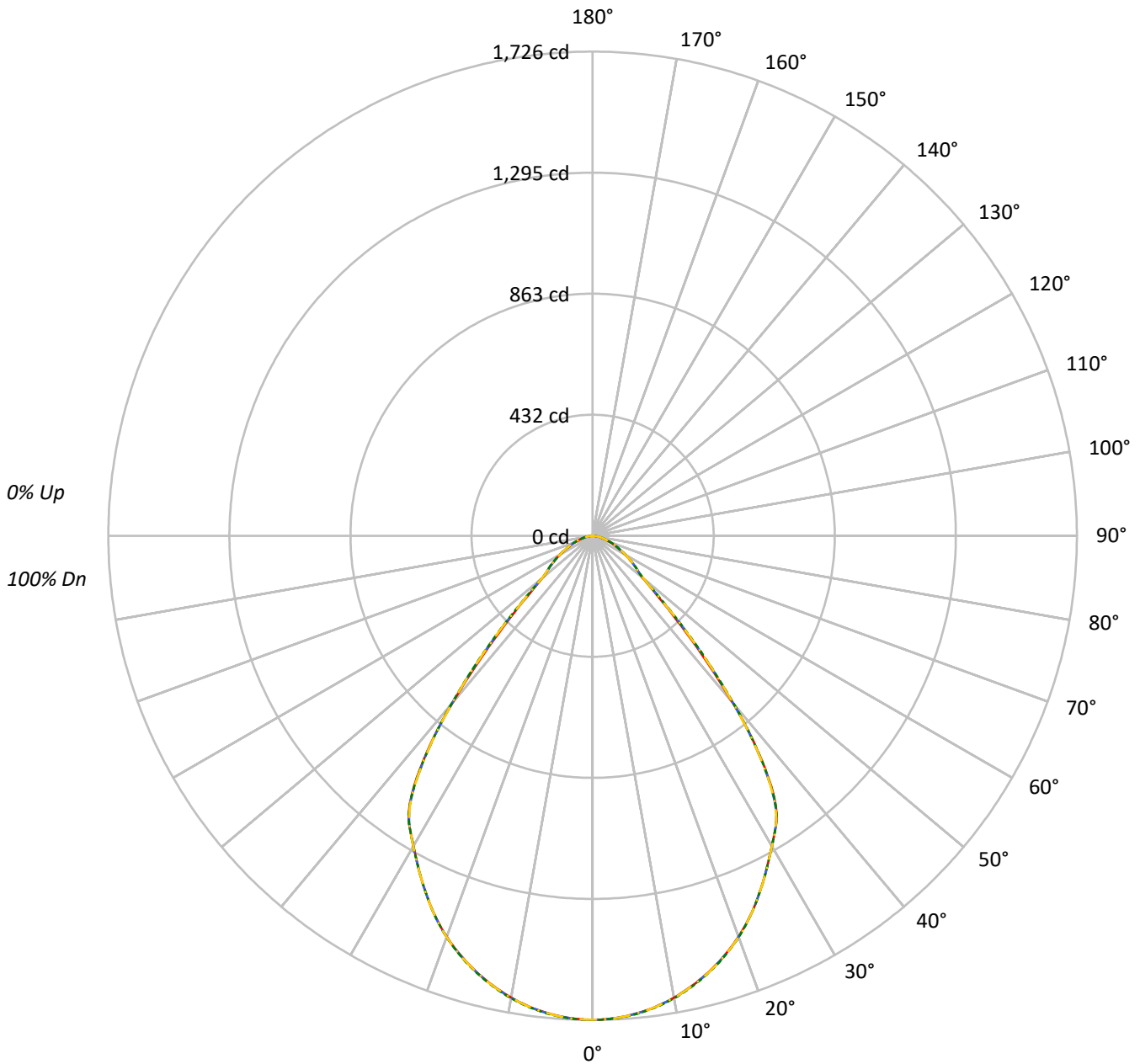
Lumens per Lamp: N/A
Luminaire Lumens: 2601.7 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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					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	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	96	95	95	93	92	90								
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81								
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72								
4	91	82	75	70	89	81	74	70	79	73	69	76	72	68	74	70	67	65								
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59								
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54								
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49								
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45								
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42								
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	52674	52674	52674	52674
5°	52458	52504	52458	52504
10°	51822	51899	51822	51899
15°	50806	50885	50806	50885
20°	49414	49462	49414	49462
25°	47363	47370	47363	47370
30°	45043	45043	45043	45043
35°	41844	41762	41844	41762
40°	30927	31294	30927	31294
45°	18182	19067	18182	19067
50°	11128	11271	11128	11271
55°	9538	9549	9538	9549
60°	8133	8207	8133	8207
65°	6906	7072	6906	7072
70°	5865	6132	5865	6132
75°	4895	5273	4895	5273
80°	3903	4431	3903	4431
85°	2417	3363	2417	3363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 19218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	6.2
10°-20°	452.6	17.4
20°-30°	646.3	24.8
30°-40°	674.8	25.9
40°-50°	350.5	13.5
50°-60°	160.7	6.2
60°-70°	97.4	3.7
70°-80°	46.7	1.8
80°-90°	10.5	0.4
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°	1261.0	48.5
0°-40°	1935.9	74.4
0°-60°	2447.1	94.1
0°-90°	2601.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2601.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1725	1725	1725	1725	1725	
5°	1712	1713	1712	1713	1712	162
15°	1607	1610	1607	1610	1607	452
25°	1406	1406	1406	1406	1406	646
35°	1123	1120	1123	1120	1123	676
45°	421	442	421	442	421	342
55°	179	179	179	179	179	160
65°	96	98	96	98	96	96
75°	42	45	42	45	42	45
85°	7	10	7	10	7	9
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°	1725.3	1725.3	1725.3	1725.3	1725.3	1725.3	1725.3	1725.3	1725.3	1725.3	1725.3
0.5°	1725.0	1724.5	1725.0	1725.0	1726.0	1725.0	1725.0	1724.5	1725.0	1724.5	1725.0
1°	1724.8	1724.3	1724.8	1724.8	1725.5	1724.8	1724.8	1724.3	1724.8	1724.3	1724.8
1.5°	1724.0	1723.5	1724.0	1724.0	1725.0	1724.0	1724.0	1723.5	1724.0	1723.5	1724.0
2°	1723.0	1722.5	1723.0	1723.0	1724.0	1723.0	1723.0	1722.5	1723.0	1722.5	1723.0
2.5°	1721.8	1721.3	1721.8	1722.1	1722.8	1722.1	1721.8	1721.3	1721.8	1721.3	1721.8
3°	1720.3	1719.8	1720.3	1720.6	1721.6	1720.6	1720.3	1719.8	1720.3	1719.8	1720.3
3.5°	1718.6	1718.1	1718.6	1718.8	1719.8	1718.8	1718.6	1718.1	1718.6	1718.1	1718.6
4°	1716.4	1716.1	1716.6	1716.9	1717.9	1716.9	1716.6	1716.1	1716.4	1716.1	1716.6
4.5°	1714.1	1713.9	1714.4	1714.6	1715.6	1714.6	1714.4	1713.9	1714.1	1713.9	1714.4
5°	1711.7	1711.2	1711.7	1712.2	1713.2	1712.2	1711.7	1711.2	1711.7	1711.2	1711.7
5.5°	1708.7	1708.5	1709.0	1709.4	1710.4	1709.4	1709.0	1708.5	1708.7	1708.5	1709.0
6°	1705.7	1705.2	1706.0	1706.5	1707.2	1706.5	1706.0	1705.2	1705.7	1705.2	1706.0
6.5°	1702.3	1702.0	1702.8	1703.3	1704.0	1703.3	1702.8	1702.0	1702.3	1702.0	1702.8
7°	1698.8	1698.3	1699.1	1699.6	1700.6	1699.6	1699.1	1698.3	1698.8	1698.3	1699.1
7.5°	1694.9	1694.4	1695.4	1695.9	1696.8	1695.9	1695.4	1694.4	1694.9	1694.4	1695.4
8°	1690.7	1690.4	1691.2	1691.7	1692.9	1691.7	1691.2	1690.4	1690.7	1690.4	1691.2
8.5°	1686.2	1686.0	1687.0	1687.5	1688.4	1687.5	1687.0	1686.0	1686.2	1686.0	1687.0
9°	1681.8	1681.5	1682.3	1683.0	1684.0	1683.0	1682.3	1681.5	1681.8	1681.5	1682.3
9.5°	1676.6	1676.6	1677.3	1678.1	1679.1	1678.1	1677.3	1676.6	1676.6	1676.6	1677.3
10°	1671.6	1671.4	1672.4	1673.1	1674.1	1673.1	1672.4	1671.4	1671.6	1671.4	1672.4
10.5°	1666.2	1666.0	1666.9	1667.7	1668.9	1667.7	1666.9	1666.0	1666.2	1666.0	1666.9
11°	1660.5	1660.5	1661.3	1662.2	1663.2	1662.2	1661.3	1660.5	1660.5	1660.5	1661.3
11.5°	1654.8	1654.6	1655.6	1656.3	1657.3	1656.3	1655.6	1654.6	1654.8	1654.6	1655.6
12°	1648.7	1648.7	1649.4	1650.4	1651.4	1650.4	1649.4	1648.7	1648.7	1648.7	1649.4
12.5°	1642.2	1642.2	1643.2	1644.2	1644.9	1644.2	1643.2	1642.2	1642.2	1642.2	1643.2
13°	1635.8	1635.8	1636.8	1637.5	1638.5	1637.5	1636.8	1635.8	1635.8	1635.8	1636.8
13.5°	1628.9	1628.9	1629.9	1631.1	1631.6	1631.1	1629.9	1628.9	1628.9	1628.9	1629.9
14°	1622.2	1622.0	1623.0	1623.9	1624.7	1623.9	1623.0	1622.0	1622.2	1622.0	1623.0
14.5°	1614.8	1614.8	1615.8	1616.8	1617.5	1616.8	1615.8	1614.8	1614.8	1614.8	1615.8
15°	1607.4	1607.6	1608.6	1609.4	1609.9	1609.4	1608.6	1607.6	1607.4	1607.6	1608.6
15.5°	1599.7	1600.0	1601.0	1601.7	1602.2	1601.7	1601.0	1600.0	1599.7	1600.0	1601.0
16°	1592.1	1592.1	1593.0	1593.8	1594.3	1593.8	1593.0	1592.1	1592.1	1592.1	1593.0
16.5°	1584.2	1584.2	1585.1	1585.6	1586.4	1585.6	1585.1	1584.2	1584.2	1584.2	1585.1
17°	1575.7	1575.7	1576.7	1577.5	1578.0	1577.5	1576.7	1575.7	1575.7	1575.7	1576.7
17.5°	1567.1	1567.3	1568.3	1568.8	1569.3	1568.8	1568.3	1567.3	1567.1	1567.3	1568.3
18°	1558.4	1558.4	1559.4	1559.9	1560.4	1559.9	1559.4	1558.4	1558.4	1558.4	1559.4
18.5°	1549.6	1549.6	1550.5	1550.8	1551.3	1550.8	1550.5	1549.6	1549.6	1549.6	1550.5
19°	1540.2	1540.2	1541.1	1541.6	1541.9	1541.6	1541.1	1540.2	1540.2	1540.2	1541.1
19.5°	1530.5	1530.8	1531.5	1532.0	1532.3	1532.0	1531.5	1530.8	1530.5	1530.8	1531.5
20°	1520.9	1520.9	1521.6	1521.9	1522.4	1521.9	1521.6	1520.9	1520.9	1520.9	1521.6
20.5°	1510.8	1510.8	1511.5	1511.5	1512.0	1511.5	1511.5	1510.8	1510.8	1510.8	1511.5
21°	1500.4	1500.4	1501.1	1501.1	1501.4	1501.1	1501.1	1500.4	1500.4	1500.4	1501.1



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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°	1467.0	1467.0	1467.5	1467.3	1467.7	1467.3	1467.5	1467.0	1467.0	1467.0	1467.5
23°	1455.4	1455.4	1455.6	1455.6	1455.9	1455.6	1455.6	1455.4	1455.4	1455.4	1455.6
23.5°	1443.5	1443.5	1443.8	1443.5	1443.8	1443.5	1443.8	1443.5	1443.5	1443.5	1443.8
24°	1431.4	1431.2	1431.4	1431.2	1431.4	1431.2	1431.4	1431.2	1431.4	1431.2	1431.4
24.5°	1418.6	1418.6	1419.1	1418.8	1418.8	1418.8	1419.1	1418.6	1418.6	1418.6	1419.1
25°	1406.0	1406.0	1406.2	1406.2	1406.2	1406.2	1406.2	1406.0	1406.0	1406.0	1406.2
25.5°	1393.4	1393.1	1393.6	1393.4	1393.4	1393.4	1393.6	1393.1	1393.4	1393.1	1393.6
26°	1380.5	1380.3	1380.5	1380.8	1380.5	1380.8	1380.5	1380.3	1380.5	1380.3	1380.5
26.5°	1367.4	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.4	1367.7	1367.7
27°	1354.6	1354.6	1354.8	1354.8	1354.6	1354.8	1354.8	1354.6	1354.6	1354.6	1354.8
27.5°	1341.5	1341.5	1342.0	1342.0	1341.5	1342.0	1342.0	1341.5	1341.5	1341.5	1342.0
28°	1328.6	1328.6	1329.1	1328.9	1328.9	1328.9	1329.1	1328.6	1328.6	1328.6	1329.1
28.5°	1315.8	1315.8	1316.3	1316.0	1315.8	1316.0	1316.3	1315.8	1315.8	1315.8	1316.3
29°	1302.7	1303.2	1303.4	1303.2	1303.2	1303.2	1303.4	1303.2	1302.7	1303.2	1303.4
29.5°	1290.1	1290.3	1290.8	1290.8	1290.3	1290.8	1290.8	1290.3	1290.1	1290.3	1290.8
30°	1277.7	1277.9	1278.2	1278.2	1277.7	1278.2	1278.2	1277.9	1277.7	1277.9	1278.2
30.5°	1265.3	1265.8	1266.1	1265.8	1265.1	1265.8	1266.1	1265.8	1265.3	1265.8	1266.1
31°	1253.2	1253.5	1254.0	1253.7	1253.5	1253.7	1254.0	1253.5	1253.2	1253.5	1254.0
31.5°	1241.6	1241.6	1241.9	1241.6	1241.1	1241.6	1241.9	1241.6	1241.6	1241.6	1241.9
32°	1229.5	1229.5	1229.5	1229.3	1229.3	1229.3	1229.5	1229.5	1229.5	1229.5	1229.5
32.5°	1217.4	1216.4	1216.2	1215.9	1217.2	1215.9	1216.2	1216.4	1217.4	1216.4	1216.2
33°	1204.1	1201.6	1201.1	1200.3	1204.5	1200.3	1201.1	1201.6	1204.1	1201.6	1201.1
33.5°	1187.7	1184.0	1184.3	1182.8	1188.2	1182.8	1184.3	1184.0	1187.7	1184.0	1184.3
34°	1168.2	1164.0	1165.5	1162.5	1169.0	1162.5	1165.5	1164.0	1168.2	1164.0	1165.5
34.5°	1147.2	1141.3	1143.8	1140.8	1146.7	1140.8	1143.8	1141.3	1147.2	1141.3	1143.8
35°	1122.7	1117.3	1118.5	1116.6	1120.5	1116.6	1118.5	1117.3	1122.7	1117.3	1118.5
35.5°	1095.3	1092.3	1090.9	1089.1	1091.9	1089.1	1090.9	1092.3	1095.3	1092.3	1090.9
36°	1065.2	1065.7	1061.2	1059.2	1063.4	1059.2	1061.2	1065.7	1065.2	1065.7	1061.2
36.5°	1033.5	1035.8	1029.8	1027.6	1032.0	1027.6	1029.8	1035.8	1033.5	1035.8	1029.8
37°	1000.9	1002.9	997.4	994.5	999.9	994.5	997.4	1002.9	1000.9	1002.9	997.4
37.5°	967.0	967.0	963.3	960.6	965.6	960.6	963.3	967.0	967.0	967.0	963.3
38°	931.7	929.2	928.5	926.3	931.0	926.3	928.5	929.2	931.7	929.2	928.5
38.5°	894.9	890.4	892.4	890.7	895.4	890.7	892.4	890.4	894.9	890.4	892.4
39°	856.3	852.1	855.1	854.8	859.8	854.8	855.1	852.1	856.3	852.1	855.1
39.5°	817.0	814.1	817.5	818.5	823.0	818.5	817.5	814.1	817.0	814.1	817.5
40°	776.0	776.8	780.2	782.9	785.2	782.9	780.2	776.8	776.0	776.8	780.2
40.5°	735.0	738.7	742.4	747.1	747.3	747.1	742.4	738.7	735.0	738.7	742.4
41°	695.2	701.4	706.1	711.5	709.8	711.5	706.1	701.4	695.2	701.4	706.1
41.5°	655.9	663.1	669.7	676.2	672.5	676.2	669.7	663.1	655.9	663.1	669.7
42°	618.3	625.8	633.7	640.6	636.6	640.6	633.7	625.8	618.3	625.8	633.7
42.5°	582.0	589.2	597.8	606.0	601.3	606.0	597.8	589.2	582.0	589.2	597.8
43°	546.7	553.8	563.5	571.6	567.7	571.6	563.5	553.8	546.7	553.8	563.5
43.5°	513.1	519.5	529.9	538.8	534.6	538.8	529.9	519.5	513.1	519.5	529.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	421.1	425.6	436.9	445.1	441.6	445.1	436.9	425.6	421.1	425.6	436.9
45.5°	394.2	398.1	409.0	416.7	414.0	416.7	409.0	398.1	394.2	398.1	409.0
46°	368.7	373.2	382.6	389.7	387.5	389.7	382.6	373.2	368.7	373.2	382.6
46.5°	345.5	350.4	357.1	364.5	362.8	364.5	357.1	350.4	345.5	350.4	357.1
47°	323.7	329.4	334.1	341.3	339.6	341.3	334.1	329.4	323.7	329.4	334.1
47.5°	304.5	310.4	312.9	319.8	317.8	319.8	312.9	310.4	304.5	310.4	312.9
48°	287.2	292.4	293.8	300.8	298.0	300.8	293.8	292.4	287.2	292.4	293.8
48.5°	271.6	275.8	277.0	283.0	279.8	283.0	277.0	275.8	271.6	275.8	277.0
49°	257.5	260.7	262.0	266.9	263.9	266.9	262.0	260.7	257.5	260.7	262.0
49.5°	245.4	247.6	249.1	252.8	249.4	252.8	249.1	247.6	245.4	247.6	249.1
50°	234.3	236.3	238.0	240.5	237.3	240.5	238.0	236.3	234.3	236.3	238.0
50.5°	225.1	226.6	228.1	230.1	226.9	230.1	228.1	226.6	225.1	226.6	228.1
51°	217.5	219.0	219.7	221.2	218.5	221.2	219.7	219.0	217.5	219.0	219.7
51.5°	211.1	212.3	213.0	213.5	211.8	213.5	213.0	212.3	211.1	212.3	213.0
52°	206.1	206.6	207.1	207.3	206.4	207.3	207.1	206.6	206.1	206.6	207.1
52.5°	201.4	201.7	201.9	201.9	201.9	201.9	201.9	201.7	201.4	201.7	201.9
53°	197.0	197.2	197.2	197.2	197.5	197.2	197.2	197.2	197.0	197.2	197.2
53.5°	192.8	192.8	192.8	192.5	193.0	192.5	192.8	192.8	192.8	192.8	192.8
54°	188.3	188.3	188.3	188.1	188.6	188.1	188.3	188.3	188.3	188.3	188.3
54.5°	183.9	183.9	183.9	183.6	184.1	183.6	183.9	183.9	183.9	183.9	183.9
55°	179.2	179.2	179.2	179.2	179.4	179.2	179.2	179.2	179.2	179.2	179.2
55.5°	174.5	174.5	174.7	174.5	174.7	174.5	174.7	174.5	174.5	174.5	174.7
56°	169.8	169.8	170.0	170.0	170.0	170.0	170.0	169.8	169.8	169.8	170.0
56.5°	165.1	165.3	165.3	165.3	165.3	165.3	165.3	165.3	165.1	165.3	165.3
57°	160.4	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.4	160.6	160.6
57.5°	155.7	155.9	156.2	156.2	156.2	156.2	156.2	155.9	155.7	155.9	156.2
58°	151.0	151.5	151.5	151.7	151.7	151.7	151.5	151.5	151.0	151.5	151.5
58.5°	146.3	147.0	147.0	147.3	147.3	147.3	147.0	147.0	146.3	147.0	147.0
59°	141.9	142.6	142.8	142.8	142.8	142.8	142.8	142.6	141.9	142.6	142.8
59.5°	137.7	138.4	138.6	138.6	138.6	138.6	138.6	138.4	137.7	138.4	138.6
60°	133.2	134.2	134.4	134.7	134.4	134.7	134.4	134.2	133.2	134.2	134.4
60.5°	129.0	130.0	130.5	130.5	130.5	130.5	130.5	130.0	129.0	130.0	130.5
61°	125.1	126.0	126.5	126.5	126.5	126.5	126.5	126.0	125.1	126.0	126.5
61.5°	121.1	122.1	122.6	122.8	122.8	122.8	122.6	122.1	121.1	122.1	122.6
62°	117.1	118.1	118.9	118.9	118.9	118.9	118.9	118.1	117.1	118.1	118.9
62.5°	113.4	114.4	115.2	115.2	115.2	115.2	115.2	114.4	113.4	114.4	115.2
63°	109.5	110.7	111.7	111.7	111.7	111.7	111.7	110.7	109.5	110.7	111.7
63.5°	106.0	107.3	108.0	108.2	108.2	108.2	108.0	107.3	106.0	107.3	108.0
64°	102.6	103.6	104.5	104.8	104.8	104.8	104.5	103.6	102.6	103.6	104.5
64.5°	99.1	100.1	101.3	101.3	101.3	101.3	101.3	100.1	99.1	100.1	101.3
65°	95.6	96.6	97.9	98.1	97.9	98.1	97.9	96.6	95.6	96.6	97.9
65.5°	92.4	93.4	94.7	94.9	94.9	94.9	94.7	93.4	92.4	93.4	94.7
66°	89.2	90.2	91.4	91.7	91.7	91.7	91.4	90.2	89.2	90.2	91.4



TEST NUMBER: P776171

CATALOG NUMBER: HCDJBL1525CSD-HCD82TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	79.8	81.1	82.3	82.8	82.5	82.8	82.3	81.1	79.8	81.1	82.3
68°	76.9	78.1	79.6	79.8	79.8	79.8	79.6	78.1	76.9	78.1	79.6
68.5°	74.1	75.1	76.6	76.9	76.9	76.9	76.6	75.1	74.1	75.1	76.6
69°	71.2	72.4	73.9	74.1	74.1	74.1	73.9	72.4	71.2	72.4	73.9
69.5°	68.5	69.4	71.2	71.4	71.4	71.4	71.2	69.4	68.5	69.4	71.2
70°	65.7	66.7	68.5	68.7	68.7	68.7	68.5	66.7	65.7	66.7	68.5
70.5°	63.0	64.0	65.7	66.0	66.0	66.0	65.7	64.0	63.0	64.0	65.7
71°	60.5	61.5	63.0	63.5	63.5	63.5	63.0	61.5	60.5	61.5	63.0
71.5°	57.8	58.8	60.5	61.0	60.8	61.0	60.5	58.8	57.8	58.8	60.5
72°	55.4	56.3	58.1	58.6	58.3	58.6	58.1	56.3	55.4	56.3	58.1
72.5°	52.9	53.9	55.6	56.1	55.9	56.1	55.6	53.9	52.9	53.9	55.6
73°	50.4	51.4	53.1	53.6	53.6	53.6	53.1	51.4	50.4	51.4	53.1
73.5°	48.2	49.2	50.9	51.4	51.4	51.4	50.9	49.2	48.2	49.2	50.9
74°	46.0	47.0	48.4	49.2	48.9	49.2	48.4	47.0	46.0	47.0	48.4
74.5°	43.7	44.5	46.2	47.0	46.7	47.0	46.2	44.5	43.7	44.5	46.2
75°	41.5	42.3	44.0	44.7	44.7	44.7	44.0	42.3	41.5	42.3	44.0
75.5°	39.3	40.3	41.8	42.5	42.5	42.5	41.8	40.3	39.3	40.3	41.8
76°	37.3	38.1	39.8	40.5	40.3	40.5	39.8	38.1	37.3	38.1	39.8
76.5°	35.1	36.1	37.6	38.3	38.3	38.3	37.6	36.1	35.1	36.1	37.6
77°	33.1	34.1	35.6	36.3	36.3	36.3	35.6	34.1	33.1	34.1	35.6
77.5°	31.4	32.1	33.6	34.4	34.4	34.4	33.6	32.1	31.4	32.1	33.6
78°	29.4	30.2	31.6	32.6	32.4	32.6	31.6	30.2	29.4	30.2	31.6
78.5°	27.4	28.2	29.9	30.6	30.6	30.6	29.9	28.2	27.4	28.2	29.9
79°	25.7	26.4	27.9	28.9	28.7	28.9	27.9	26.4	25.7	26.4	27.9
79.5°	24.0	24.5	26.2	26.9	26.9	26.9	26.2	24.5	24.0	24.5	26.2
80°	22.2	22.7	24.5	25.2	25.2	25.2	24.5	22.7	22.2	22.7	24.5
80.5°	20.5	21.0	22.7	23.5	23.5	23.5	22.7	21.0	20.5	21.0	22.7
81°	18.8	19.3	21.0	21.7	21.7	21.7	21.0	19.3	18.8	19.3	21.0
81.5°	17.3	17.5	19.3	20.3	20.3	20.3	19.3	17.5	17.3	17.5	19.3
82°	15.6	16.1	17.5	18.5	18.5	18.5	17.5	16.1	15.6	16.1	17.5
82.5°	14.1	14.3	16.1	17.1	17.1	17.1	16.1	14.3	14.1	14.3	16.1
83°	12.6	12.9	14.6	15.6	15.3	15.6	14.6	12.9	12.6	12.9	14.6
83.5°	11.1	11.4	13.1	13.8	13.8	13.8	13.1	11.4	11.1	11.4	13.1
84°	9.6	9.9	11.6	12.4	12.4	12.4	11.6	9.9	9.6	9.9	11.6
84.5°	8.2	8.4	10.1	11.1	11.1	11.1	10.1	8.4	8.2	8.4	10.1
85°	6.9	7.2	8.9	9.6	9.6	9.6	8.9	7.2	6.9	7.2	8.9
85.5°	5.7	5.9	7.7	8.2	8.2	8.2	7.7	5.9	5.7	5.9	7.7
86°	4.4	4.9	6.4	6.9	6.9	6.9	6.4	4.9	4.4	4.9	6.4
86.5°	3.5	4.0	5.2	5.7	5.7	5.7	5.2	4.0	3.5	4.0	5.2
87°	2.7	3.0	4.0	4.4	4.4	4.4	4.0	3.0	2.7	3.0	4.0
87.5°	2.0	2.2	3.0	3.5	3.2	3.5	3.0	2.2	2.0	2.2	3.0
88°	1.2	1.5	2.2	2.5	2.0	2.5	2.2	1.5	1.2	1.5	2.2
88.5°	0.7	1.0	1.5	1.7	1.2	1.7	1.5	1.0	0.7	1.0	1.5



TEST NUMBER: P776171

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P776171

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1725.3	1725.3	1725.3	1725.3	1725.3	1725.3
0.5°	1725.0	1726.0	1725.0	1725.0	1724.5	1725.0
1°	1724.8	1725.5	1724.8	1724.8	1724.3	1724.8
1.5°	1724.0	1725.0	1724.0	1724.0	1723.5	1724.0
2°	1723.0	1724.0	1723.0	1723.0	1722.5	1723.0
2.5°	1722.1	1722.8	1722.1	1721.8	1721.3	1721.8
3°	1720.6	1721.6	1720.6	1720.3	1719.8	1720.3
3.5°	1718.8	1719.8	1718.8	1718.6	1718.1	1718.6
4°	1716.9	1717.9	1716.9	1716.6	1716.1	1716.4
4.5°	1714.6	1715.6	1714.6	1714.4	1713.9	1714.1
5°	1712.2	1713.2	1712.2	1711.7	1711.2	1711.7
5.5°	1709.4	1710.4	1709.4	1709.0	1708.5	1708.7
6°	1706.5	1707.2	1706.5	1706.0	1705.2	1705.7
6.5°	1703.3	1704.0	1703.3	1702.8	1702.0	1702.3
7°	1699.6	1700.6	1699.6	1699.1	1698.3	1698.8
7.5°	1695.9	1696.8	1695.9	1695.4	1694.4	1694.9
8°	1691.7	1692.9	1691.7	1691.2	1690.4	1690.7
8.5°	1687.5	1688.4	1687.5	1687.0	1686.0	1686.2
9°	1683.0	1684.0	1683.0	1682.3	1681.5	1681.8
9.5°	1678.1	1679.1	1678.1	1677.3	1676.6	1676.6
10°	1673.1	1674.1	1673.1	1672.4	1671.4	1671.6
10.5°	1667.7	1668.9	1667.7	1666.9	1666.0	1666.2
11°	1662.2	1663.2	1662.2	1661.3	1660.5	1660.5
11.5°	1656.3	1657.3	1656.3	1655.6	1654.6	1654.8
12°	1650.4	1651.4	1650.4	1649.4	1648.7	1648.7
12.5°	1644.2	1644.9	1644.2	1643.2	1642.2	1642.2
13°	1637.5	1638.5	1637.5	1636.8	1635.8	1635.8
13.5°	1631.1	1631.6	1631.1	1629.9	1628.9	1628.9
14°	1623.9	1624.7	1623.9	1623.0	1622.0	1622.2
14.5°	1616.8	1617.5	1616.8	1615.8	1614.8	1614.8
15°	1609.4	1609.9	1609.4	1608.6	1607.6	1607.4
15.5°	1601.7	1602.2	1601.7	1601.0	1600.0	1599.7
16°	1593.8	1594.3	1593.8	1593.0	1592.1	1592.1
16.5°	1585.6	1586.4	1585.6	1585.1	1584.2	1584.2
17°	1577.5	1578.0	1577.5	1576.7	1575.7	1575.7
17.5°	1568.8	1569.3	1568.8	1568.3	1567.3	1567.1
18°	1559.9	1560.4	1559.9	1559.4	1558.4	1558.4
18.5°	1550.8	1551.3	1550.8	1550.5	1549.6	1549.6
19°	1541.6	1541.9	1541.6	1541.1	1540.2	1540.2
19.5°	1532.0	1532.3	1532.0	1531.5	1530.8	1530.5
20°	1521.9	1522.4	1521.9	1521.6	1520.9	1520.9
20.5°	1511.5	1512.0	1511.5	1511.5	1510.8	1510.8
21°	1501.1	1501.4	1501.1	1501.1	1500.4	1500.4



TEST NUMBER: P776171

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1467.3	1467.7	1467.3	1467.5	1467.0	1467.0
23°	1455.6	1455.9	1455.6	1455.6	1455.4	1455.4
23.5°	1443.5	1443.8	1443.5	1443.8	1443.5	1443.5
24°	1431.2	1431.4	1431.2	1431.4	1431.2	1431.4
24.5°	1418.8	1418.8	1418.8	1419.1	1418.6	1418.6
25°	1406.2	1406.2	1406.2	1406.2	1406.0	1406.0
25.5°	1393.4	1393.4	1393.4	1393.6	1393.1	1393.4
26°	1380.8	1380.5	1380.8	1380.5	1380.3	1380.5
26.5°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.4
27°	1354.8	1354.6	1354.8	1354.8	1354.6	1354.6
27.5°	1342.0	1341.5	1342.0	1342.0	1341.5	1341.5
28°	1328.9	1328.9	1328.9	1329.1	1328.6	1328.6
28.5°	1316.0	1315.8	1316.0	1316.3	1315.8	1315.8
29°	1303.2	1303.2	1303.2	1303.4	1303.2	1302.7
29.5°	1290.8	1290.3	1290.8	1290.8	1290.3	1290.1
30°	1278.2	1277.7	1278.2	1278.2	1277.9	1277.7
30.5°	1265.8	1265.1	1265.8	1266.1	1265.8	1265.3
31°	1253.7	1253.5	1253.7	1254.0	1253.5	1253.2
31.5°	1241.6	1241.1	1241.6	1241.9	1241.6	1241.6
32°	1229.3	1229.3	1229.3	1229.5	1229.5	1229.5
32.5°	1215.9	1217.2	1215.9	1216.2	1216.4	1217.4
33°	1200.3	1204.5	1200.3	1201.1	1201.6	1204.1
33.5°	1182.8	1188.2	1182.8	1184.3	1184.0	1187.7
34°	1162.5	1169.0	1162.5	1165.5	1164.0	1168.2
34.5°	1140.8	1146.7	1140.8	1143.8	1141.3	1147.2
35°	1116.6	1120.5	1116.6	1118.5	1117.3	1122.7
35.5°	1089.1	1091.9	1089.1	1090.9	1092.3	1095.3
36°	1059.2	1063.4	1059.2	1061.2	1065.7	1065.2
36.5°	1027.6	1032.0	1027.6	1029.8	1035.8	1033.5
37°	994.5	999.9	994.5	997.4	1002.9	1000.9
37.5°	960.6	965.6	960.6	963.3	967.0	967.0
38°	926.3	931.0	926.3	928.5	929.2	931.7
38.5°	890.7	895.4	890.7	892.4	890.4	894.9
39°	854.8	859.8	854.8	855.1	852.1	856.3
39.5°	818.5	823.0	818.5	817.5	814.1	817.0
40°	782.9	785.2	782.9	780.2	776.8	776.0
40.5°	747.1	747.3	747.1	742.4	738.7	735.0
41°	711.5	709.8	711.5	706.1	701.4	695.2
41.5°	676.2	672.5	676.2	669.7	663.1	655.9
42°	640.6	636.6	640.6	633.7	625.8	618.3
42.5°	606.0	601.3	606.0	597.8	589.2	582.0
43°	571.6	567.7	571.6	563.5	553.8	546.7
43.5°	538.8	534.6	538.8	529.9	519.5	513.1



TEST NUMBER: P776171

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	445.1	441.6	445.1	436.9	425.6	421.1
45.5°	416.7	414.0	416.7	409.0	398.1	394.2
46°	389.7	387.5	389.7	382.6	373.2	368.7
46.5°	364.5	362.8	364.5	357.1	350.4	345.5
47°	341.3	339.6	341.3	334.1	329.4	323.7
47.5°	319.8	317.8	319.8	312.9	310.4	304.5
48°	300.8	298.0	300.8	293.8	292.4	287.2
48.5°	283.0	279.8	283.0	277.0	275.8	271.6
49°	266.9	263.9	266.9	262.0	260.7	257.5
49.5°	252.8	249.4	252.8	249.1	247.6	245.4
50°	240.5	237.3	240.5	238.0	236.3	234.3
50.5°	230.1	226.9	230.1	228.1	226.6	225.1
51°	221.2	218.5	221.2	219.7	219.0	217.5
51.5°	213.5	211.8	213.5	213.0	212.3	211.1
52°	207.3	206.4	207.3	207.1	206.6	206.1
52.5°	201.9	201.9	201.9	201.9	201.7	201.4
53°	197.2	197.5	197.2	197.2	197.2	197.0
53.5°	192.5	193.0	192.5	192.8	192.8	192.8
54°	188.1	188.6	188.1	188.3	188.3	188.3
54.5°	183.6	184.1	183.6	183.9	183.9	183.9
55°	179.2	179.4	179.2	179.2	179.2	179.2
55.5°	174.5	174.7	174.5	174.7	174.5	174.5
56°	170.0	170.0	170.0	170.0	169.8	169.8
56.5°	165.3	165.3	165.3	165.3	165.3	165.1
57°	160.6	160.6	160.6	160.6	160.6	160.4
57.5°	156.2	156.2	156.2	156.2	155.9	155.7
58°	151.7	151.7	151.7	151.5	151.5	151.0
58.5°	147.3	147.3	147.3	147.0	147.0	146.3
59°	142.8	142.8	142.8	142.8	142.6	141.9
59.5°	138.6	138.6	138.6	138.6	138.4	137.7
60°	134.7	134.4	134.7	134.4	134.2	133.2
60.5°	130.5	130.5	130.5	130.5	130.0	129.0
61°	126.5	126.5	126.5	126.5	126.0	125.1
61.5°	122.8	122.8	122.8	122.6	122.1	121.1
62°	118.9	118.9	118.9	118.9	118.1	117.1
62.5°	115.2	115.2	115.2	115.2	114.4	113.4
63°	111.7	111.7	111.7	111.7	110.7	109.5
63.5°	108.2	108.2	108.2	108.0	107.3	106.0
64°	104.8	104.8	104.8	104.5	103.6	102.6
64.5°	101.3	101.3	101.3	101.3	100.1	99.1
65°	98.1	97.9	98.1	97.9	96.6	95.6
65.5°	94.9	94.9	94.9	94.7	93.4	92.4
66°	91.7	91.7	91.7	91.4	90.2	89.2



TEST NUMBER: P776171

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	82.8	82.5	82.8	82.3	81.1	79.8
68°	79.8	79.8	79.8	79.6	78.1	76.9
68.5°	76.9	76.9	76.9	76.6	75.1	74.1
69°	74.1	74.1	74.1	73.9	72.4	71.2
69.5°	71.4	71.4	71.4	71.2	69.4	68.5
70°	68.7	68.7	68.7	68.5	66.7	65.7
70.5°	66.0	66.0	66.0	65.7	64.0	63.0
71°	63.5	63.5	63.5	63.0	61.5	60.5
71.5°	61.0	60.8	61.0	60.5	58.8	57.8
72°	58.6	58.3	58.6	58.1	56.3	55.4
72.5°	56.1	55.9	56.1	55.6	53.9	52.9
73°	53.6	53.6	53.6	53.1	51.4	50.4
73.5°	51.4	51.4	51.4	50.9	49.2	48.2
74°	49.2	48.9	49.2	48.4	47.0	46.0
74.5°	47.0	46.7	47.0	46.2	44.5	43.7
75°	44.7	44.7	44.7	44.0	42.3	41.5
75.5°	42.5	42.5	42.5	41.8	40.3	39.3
76°	40.5	40.3	40.5	39.8	38.1	37.3
76.5°	38.3	38.3	38.3	37.6	36.1	35.1
77°	36.3	36.3	36.3	35.6	34.1	33.1
77.5°	34.4	34.4	34.4	33.6	32.1	31.4
78°	32.6	32.4	32.6	31.6	30.2	29.4
78.5°	30.6	30.6	30.6	29.9	28.2	27.4
79°	28.9	28.7	28.9	27.9	26.4	25.7
79.5°	26.9	26.9	26.9	26.2	24.5	24.0
80°	25.2	25.2	25.2	24.5	22.7	22.2
80.5°	23.5	23.5	23.5	22.7	21.0	20.5
81°	21.7	21.7	21.7	21.0	19.3	18.8
81.5°	20.3	20.3	20.3	19.3	17.5	17.3
82°	18.5	18.5	18.5	17.5	16.1	15.6
82.5°	17.1	17.1	17.1	16.1	14.3	14.1
83°	15.6	15.3	15.6	14.6	12.9	12.6
83.5°	13.8	13.8	13.8	13.1	11.4	11.1
84°	12.4	12.4	12.4	11.6	9.9	9.6
84.5°	11.1	11.1	11.1	10.1	8.4	8.2
85°	9.6	9.6	9.6	8.9	7.2	6.9
85.5°	8.2	8.2	8.2	7.7	5.9	5.7
86°	6.9	6.9	6.9	6.4	4.9	4.4
86.5°	5.7	5.7	5.7	5.2	4.0	3.5
87°	4.4	4.4	4.4	4.0	3.0	2.7
87.5°	3.5	3.2	3.5	3.0	2.2	2.0
88°	2.5	2.0	2.5	2.2	1.5	1.2
88.5°	1.7	1.2	1.7	1.5	1.0	0.7



TEST NUMBER: P776171

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.0	0.2	0.2	0.0	0.0



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Peachtree City, GA 30269

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°	1489.5	1489.7	1490.2	1490.2	1490.5	1490.2	1490.2	1489.7	1489.5	1489.7	1490.2
22°	1478.6	1478.6	1478.9	1478.9	1479.4	1478.9	1478.9	1478.6	1478.6	1478.6	1478.9



44°	480.9	486.4	497.7	506.1	502.4	506.1	497.7	486.4	480.9	486.4	497.7
44.5°	450.5	455.0	466.6	475.2	471.3	475.2	466.6	455.0	450.5	455.0	466.6



66.5°	85.8	87.0	88.2	88.5	88.7	88.5	88.2	87.0	85.8	87.0	88.2
67°	82.8	83.8	85.3	85.8	85.8	85.8	85.3	83.8	82.8	83.8	85.3



89°	0.2	0.5	0.7	1.2	0.7	1.2	0.7	0.5	0.2	0.5	0.7
89.5°	0.0	0.2	0.5	0.7	0.2	0.7	0.5	0.2	0.0	0.2	0.5

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21.5°	1490.2	1490.5	1490.2	1490.2	1489.7	1489.5
22°	1478.9	1479.4	1478.9	1478.9	1478.6	1478.6



44°	506.1	502.4	506.1	497.7	486.4	480.9
44.5°	475.2	471.3	475.2	466.6	455.0	450.5

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66.5°	88.5	88.7	88.5	88.2	87.0	85.8
67°	85.8	85.8	85.8	85.3	83.8	82.8

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89°	1.2	0.7	1.2	0.7	0.5	0.2
89.5°	0.7	0.2	0.7	0.5	0.2	0.0

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Scaled Data Report



(END OF REPORT)