

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: P776425

Luminaire Tested: HCDJBL3040CSD-HCD6TSQMB-4000lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B015-HCD6TSQMB)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL3040CSD-HCD6TSQMB-4000lm-2700K  
Description: 6 INCH SQUARE MEDIUM MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

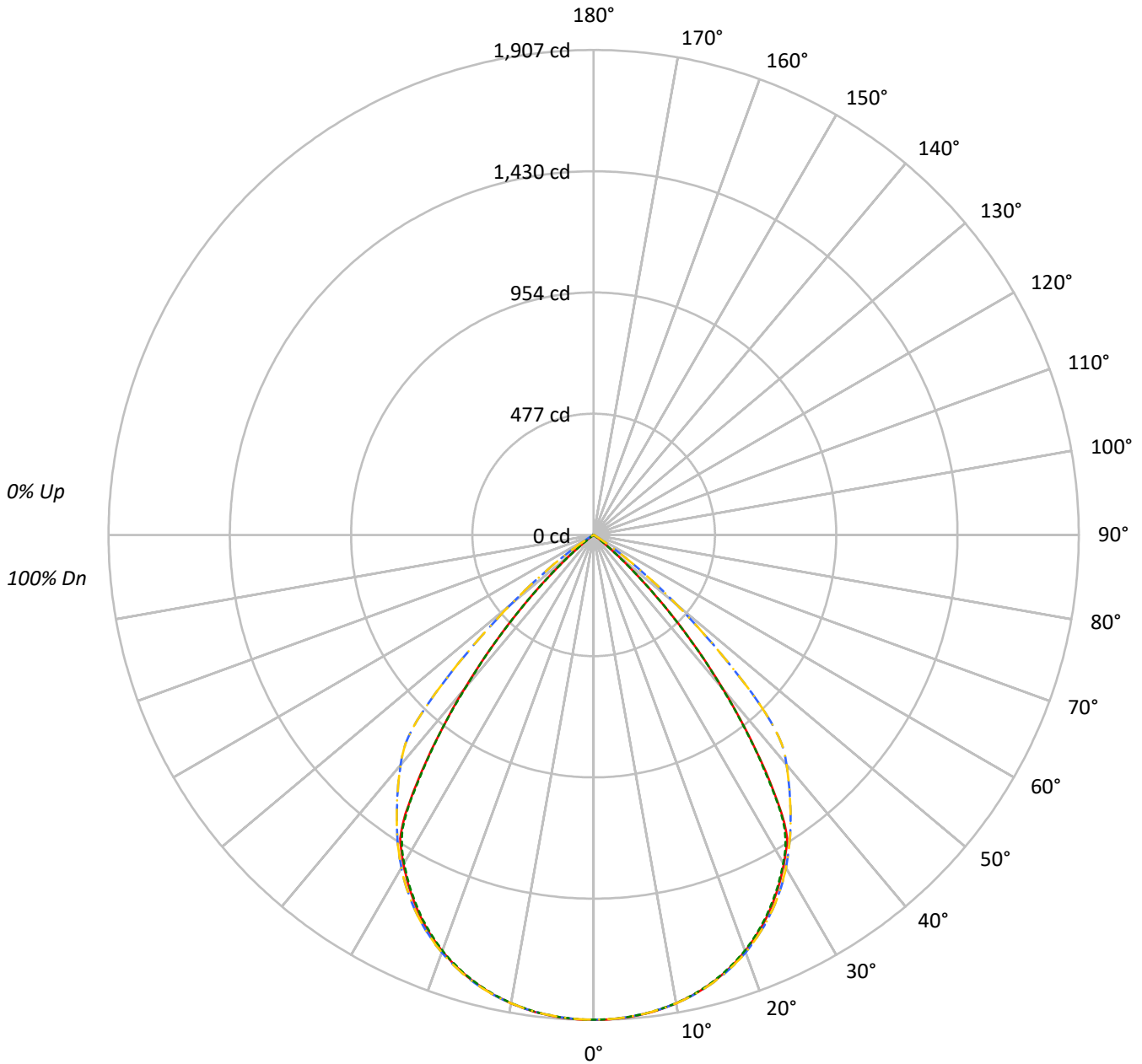
Lumens per Lamp: N/A  
Luminaire Lumens: 2750.6 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.23  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77					77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	74	71	70					70			
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64					64			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

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

	0°	90°	180°	270°
0°	82073	82073	82073	82073
5°	82040	82006	82040	82006
10°	81761	81712	81761	81712
15°	81068	80996	81068	80996
20°	79775	79670	79775	79670
25°	77588	77388	77588	77388
30°	74326	74092	74326	74092
35°	65055	64629	65055	64629
40°	44419	44138	44419	44138
45°	23126	23150	23126	23150
50°	6738	6665	6738	6665
55°	203	263	203	263
60°	69	69	69	69
65°	41	41	41	41
70°	50	50	50	50
75°	0	67	0	67
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 53474 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	6.6
10°-20°	512.6	18.6
20°-30°	752.4	27.4
30°-40°	798.4	29.0
40°-50°	445.7	16.2
50°-60°	60.3	2.2
60°-70°	0.7	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1445.3	52.5
0°-40°	2243.7	81.6
0°-60°	2749.7	100.0
0°-90°	2750.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1906	1906	1906	1906	1906	
5°	1898	1897	1898	1897	1898	180
15°	1819	1817	1819	1817	1819	512
25°	1633	1629	1633	1629	1633	750
35°	1238	1230	1238	1230	1238	747
45°	380	380	380	380	380	303
55°	3	4	3	4	3	17
65°	0	0	0	0	0	0
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°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
0.5°	1907.0	1906.2	1906.2	1905.8	1906.2	1905.8	1906.2	1906.2	1907.0	1906.2	1906.2
1°	1906.6	1906.2	1905.8	1905.8	1906.2	1905.8	1905.8	1906.2	1906.6	1906.2	1905.8
1.5°	1906.2	1905.5	1905.5	1905.5	1905.5	1905.5	1905.5	1905.5	1906.2	1905.5	1905.5
2°	1905.5	1905.1	1904.7	1904.7	1905.1	1904.7	1904.7	1905.1	1905.5	1905.1	1904.7
2.5°	1904.7	1904.3	1903.9	1903.9	1904.3	1903.9	1903.9	1904.3	1904.7	1904.3	1903.9
3°	1903.9	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.9	1903.2	1903.2
3.5°	1902.8	1902.4	1902.0	1902.0	1902.0	1902.0	1902.0	1902.4	1902.8	1902.4	1902.0
4°	1901.6	1900.9	1900.5	1900.5	1900.9	1900.5	1900.5	1900.9	1901.6	1900.9	1900.5
4.5°	1900.1	1899.3	1899.3	1898.9	1899.3	1898.9	1899.3	1899.3	1900.1	1899.3	1899.3
5°	1898.2	1897.8	1897.4	1897.4	1897.4	1897.4	1897.4	1897.8	1898.2	1897.8	1897.4
5.5°	1896.2	1895.9	1895.5	1895.5	1895.5	1895.5	1895.5	1895.9	1896.2	1895.9	1895.5
6°	1894.3	1893.9	1893.6	1893.2	1893.6	1893.2	1893.6	1893.9	1894.3	1893.9	1893.6
6.5°	1892.0	1891.6	1891.3	1891.3	1891.3	1891.3	1891.3	1891.6	1892.0	1891.6	1891.3
7°	1889.7	1889.3	1888.9	1888.6	1888.6	1888.6	1888.9	1889.3	1889.7	1889.3	1888.9
7.5°	1887.0	1886.6	1886.3	1885.9	1885.9	1885.9	1886.3	1886.6	1887.0	1886.6	1886.3
8°	1884.0	1883.6	1883.6	1883.2	1883.2	1883.2	1883.6	1883.6	1884.0	1883.6	1883.6
8.5°	1880.9	1880.5	1880.5	1880.1	1879.7	1880.1	1880.5	1880.5	1880.9	1880.5	1880.5
9°	1877.4	1877.4	1877.0	1876.7	1876.3	1876.7	1877.0	1877.4	1877.4	1877.4	1877.0
9.5°	1874.0	1874.0	1873.6	1873.2	1872.8	1873.2	1873.6	1874.0	1874.0	1874.0	1873.6
10°	1870.1	1870.1	1870.1	1869.4	1869.0	1869.4	1870.1	1870.1	1870.1	1870.1	1870.1
10.5°	1866.3	1866.3	1866.3	1865.5	1865.1	1865.5	1866.3	1866.3	1866.3	1866.3	1866.3
11°	1861.7	1862.1	1862.1	1861.3	1860.5	1861.3	1862.1	1862.1	1861.7	1862.1	1862.1
11.5°	1857.5	1857.8	1857.8	1856.7	1855.9	1856.7	1857.8	1857.8	1857.5	1857.8	1857.8
12°	1852.9	1853.2	1853.2	1852.1	1851.3	1852.1	1853.2	1853.2	1852.9	1853.2	1853.2
12.5°	1847.9	1848.2	1848.6	1847.1	1846.3	1847.1	1848.6	1848.2	1847.9	1848.2	1848.6
13°	1842.5	1843.3	1843.6	1842.1	1840.9	1842.1	1843.6	1843.3	1842.5	1843.3	1843.6
13.5°	1837.1	1837.9	1838.3	1836.7	1835.6	1836.7	1838.3	1837.9	1837.1	1837.9	1838.3
14°	1831.0	1832.1	1832.9	1831.0	1829.8	1831.0	1832.9	1832.1	1831.0	1832.1	1832.9
14.5°	1825.2	1826.4	1827.1	1825.2	1823.7	1825.2	1827.1	1826.4	1825.2	1826.4	1827.1
15°	1818.7	1820.2	1821.0	1819.1	1817.1	1819.1	1821.0	1820.2	1818.7	1820.2	1821.0
15.5°	1812.5	1813.7	1814.8	1812.5	1810.6	1812.5	1814.8	1813.7	1812.5	1813.7	1814.8
16°	1805.6	1807.2	1808.3	1806.0	1803.7	1806.0	1808.3	1807.2	1805.6	1807.2	1808.3
16.5°	1798.7	1800.2	1801.4	1799.1	1796.8	1799.1	1801.4	1800.2	1798.7	1800.2	1801.4
17°	1791.0	1793.3	1794.5	1791.8	1789.1	1791.8	1794.5	1793.3	1791.0	1793.3	1794.5
17.5°	1783.7	1785.7	1787.2	1784.5	1781.4	1784.5	1787.2	1785.7	1783.7	1785.7	1787.2
18°	1775.7	1778.0	1779.5	1776.4	1773.4	1776.4	1779.5	1778.0	1775.7	1778.0	1779.5
18.5°	1767.6	1770.3	1771.8	1768.8	1765.3	1768.8	1771.8	1770.3	1767.6	1770.3	1771.8
19°	1759.2	1761.8	1763.8	1759.9	1756.5	1759.9	1763.8	1761.8	1759.2	1761.8	1763.8
19.5°	1750.3	1753.4	1755.3	1751.5	1748.0	1751.5	1755.3	1753.4	1750.3	1753.4	1755.3
20°	1741.1	1744.6	1746.9	1742.6	1738.8	1742.6	1746.9	1744.6	1741.1	1744.6	1746.9
20.5°	1731.9	1735.7	1738.0	1733.4	1729.2	1733.4	1738.0	1735.7	1731.9	1735.7	1738.0
21°	1722.3	1726.1	1728.8	1724.2	1719.2	1724.2	1728.8	1726.1	1722.3	1726.1	1728.8



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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°	1691.2	1696.2	1699.2	1693.9	1687.7	1693.9	1699.2	1696.2	1691.2	1696.2	1699.2
23°	1680.4	1685.4	1688.9	1683.1	1676.6	1683.1	1688.9	1685.4	1680.4	1685.4	1688.9
23.5°	1669.3	1674.7	1678.5	1672.0	1665.1	1672.0	1678.5	1674.7	1669.3	1674.7	1678.5
24°	1657.4	1663.5	1667.4	1660.5	1653.6	1660.5	1667.4	1663.5	1657.4	1663.5	1667.4
24.5°	1645.5	1651.6	1656.2	1648.9	1641.6	1648.9	1656.2	1651.6	1645.5	1651.6	1656.2
25°	1633.2	1639.7	1644.3	1636.7	1629.0	1636.7	1644.3	1639.7	1633.2	1639.7	1644.3
25.5°	1620.9	1627.4	1632.8	1624.4	1616.3	1624.4	1632.8	1627.4	1620.9	1627.4	1632.8
26°	1608.2	1615.1	1620.5	1612.1	1603.2	1612.1	1620.5	1615.1	1608.2	1615.1	1620.5
26.5°	1595.2	1602.1	1607.9	1599.0	1590.2	1599.0	1607.9	1602.1	1595.2	1602.1	1607.9
27°	1581.4	1589.4	1595.2	1586.0	1576.7	1586.0	1595.2	1589.4	1581.4	1589.4	1595.2
27.5°	1567.5	1576.0	1582.1	1572.1	1563.3	1572.1	1582.1	1576.0	1567.5	1576.0	1582.1
28°	1553.7	1562.2	1568.7	1558.7	1548.7	1558.7	1568.7	1562.2	1553.7	1562.2	1568.7
28.5°	1539.5	1548.3	1554.9	1544.9	1534.5	1544.9	1554.9	1548.3	1539.5	1548.3	1554.9
29°	1524.9	1534.5	1540.7	1530.7	1519.9	1530.7	1540.7	1534.5	1524.9	1534.5	1540.7
29.5°	1510.3	1519.9	1526.4	1516.5	1505.3	1516.5	1526.4	1519.9	1510.3	1519.9	1526.4
30°	1495.0	1505.3	1511.5	1501.9	1490.3	1501.9	1511.5	1505.3	1495.0	1505.3	1511.5
30.5°	1480.0	1490.7	1496.5	1487.3	1475.0	1487.3	1496.5	1490.7	1480.0	1490.7	1496.5
31°	1464.2	1475.8	1481.1	1472.3	1459.2	1472.3	1481.1	1475.8	1464.2	1475.8	1481.1
31.5°	1448.5	1460.8	1465.4	1456.9	1443.1	1456.9	1465.4	1460.8	1448.5	1460.8	1465.4
32°	1432.4	1445.0	1449.6	1441.6	1422.8	1441.6	1449.6	1445.0	1432.4	1445.0	1449.6
32.5°	1415.5	1429.3	1433.5	1425.8	1402.0	1425.8	1433.5	1429.3	1415.5	1429.3	1433.5
33°	1388.2	1413.5	1417.0	1410.1	1379.4	1410.1	1417.0	1413.5	1388.2	1413.5	1417.0
33.5°	1358.6	1397.8	1400.5	1394.0	1348.6	1394.0	1400.5	1397.8	1358.6	1397.8	1400.5
34°	1322.5	1381.7	1383.6	1374.4	1314.5	1374.4	1383.6	1381.7	1322.5	1381.7	1383.6
34.5°	1280.7	1364.4	1366.7	1352.9	1273.8	1352.9	1366.7	1364.4	1280.7	1364.4	1366.7
35°	1237.7	1338.7	1349.8	1331.0	1229.6	1331.0	1349.8	1338.7	1237.7	1338.7	1349.8
35.5°	1194.7	1313.3	1332.9	1303.3	1185.1	1303.3	1332.9	1313.3	1194.7	1313.3	1332.9
36°	1150.1	1279.1	1315.6	1272.6	1140.9	1272.6	1315.6	1279.1	1150.1	1279.1	1315.6
36.5°	1105.2	1243.0	1298.7	1235.4	1097.5	1235.4	1298.7	1243.0	1105.2	1243.0	1298.7
37°	1059.5	1202.0	1281.8	1195.8	1053.0	1195.8	1281.8	1202.0	1059.5	1202.0	1281.8
37.5°	1015.3	1160.9	1264.5	1154.0	1009.2	1154.0	1264.5	1160.9	1015.3	1160.9	1264.5
38°	969.2	1118.6	1247.7	1111.3	965.0	1111.3	1247.7	1118.6	969.2	1118.6	1247.7
38.5°	924.7	1076.4	1230.4	1069.5	920.5	1069.5	1230.4	1076.4	924.7	1076.4	1230.4
39°	880.2	1033.4	1213.9	1028.0	875.2	1028.0	1213.9	1033.4	880.2	1033.4	1213.9
39.5°	835.6	991.1	1197.0	986.5	830.2	986.5	1197.0	991.1	835.6	991.1	1197.0
40°	790.3	948.1	1180.1	944.7	785.3	944.7	1180.1	948.1	790.3	948.1	1180.1
40.5°	746.1	905.9	1163.2	902.4	741.5	902.4	1163.2	905.9	746.1	905.9	1163.2
41°	703.1	863.6	1145.9	860.6	698.1	860.6	1145.9	863.6	703.1	863.6	1145.9
41.5°	660.1	821.4	1126.7	817.9	656.7	817.9	1126.7	821.4	660.1	821.4	1126.7
42°	617.1	779.2	1105.2	775.7	614.8	775.7	1105.2	779.2	617.1	779.2	1105.2
42.5°	576.0	737.7	1077.2	733.8	573.3	733.8	1077.2	737.7	576.0	737.7	1077.2
43°	534.9	695.8	1045.3	692.8	533.0	692.8	1045.3	695.8	534.9	695.8	1045.3
43.5°	495.0	655.1	1011.1	652.4	492.7	652.4	1011.1	655.1	495.0	655.1	1011.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	379.8	536.5	878.2	534.9	380.2	534.9	878.2	536.5	379.8	536.5	878.2
45.5°	345.2	498.1	828.3	496.9	345.2	496.9	828.3	498.1	345.2	498.1	828.3
46°	311.4	460.4	778.8	459.3	311.4	459.3	778.8	460.4	311.4	460.4	778.8
46.5°	278.0	423.6	730.0	422.4	277.3	422.4	730.0	423.6	278.0	423.6	730.0
47°	245.4	387.5	681.2	387.5	244.2	387.5	681.2	387.5	245.4	387.5	681.2
47.5°	213.9	353.3	634.8	353.7	214.3	353.7	634.8	353.3	213.9	353.3	634.8
48°	186.2	320.3	589.8	320.3	186.2	320.3	589.8	320.3	186.2	320.3	589.8
48.5°	160.9	288.0	546.4	287.6	160.5	287.6	546.4	288.0	160.9	288.0	546.4
49°	139.8	256.1	504.2	255.8	136.3	255.8	504.2	256.1	139.8	256.1	504.2
49.5°	119.8	225.4	463.1	225.4	117.5	225.4	463.1	225.4	119.8	225.4	463.1
50°	100.6	197.4	423.2	197.4	99.5	197.4	423.2	197.4	100.6	197.4	423.2
50.5°	82.9	172.8	384.8	170.5	82.2	170.5	384.8	172.8	82.9	172.8	384.8
51°	68.0	149.4	350.2	145.9	68.0	145.9	350.2	149.4	68.0	149.4	350.2
51.5°	54.5	129.0	316.4	126.0	53.4	126.0	316.4	129.0	54.5	129.0	316.4
52°	43.4	109.1	283.4	106.8	41.1	106.8	283.4	109.1	43.4	109.1	283.4
52.5°	32.6	90.6	251.1	88.3	29.2	88.3	251.1	90.6	32.6	90.6	251.1
53°	21.9	74.1	221.2	72.6	18.0	72.6	221.2	74.1	21.9	74.1	221.2
53.5°	14.6	59.1	193.9	56.8	10.8	56.8	193.9	59.1	14.6	59.1	193.9
54°	6.9	47.6	168.6	44.2	6.1	44.2	168.6	47.6	6.9	47.6	168.6
54.5°	4.2	36.5	146.7	32.6	4.6	32.6	146.7	36.5	4.2	36.5	146.7
55°	2.7	25.3	126.0	21.5	3.5	21.5	126.0	25.3	2.7	25.3	126.0
55.5°	1.2	16.1	106.8	14.6	2.3	14.6	106.8	16.1	1.2	16.1	106.8
56°	0.8	6.9	89.1	10.8	1.2	10.8	89.1	6.9	0.8	6.9	89.1
56.5°	0.8	3.5	72.2	6.5	0.8	6.5	72.2	3.5	0.8	3.5	72.2
57°	0.8	1.9	58.8	3.5	0.8	3.5	58.8	1.9	0.8	1.9	58.8
57.5°	0.8	1.5	47.2	1.5	0.8	1.5	47.2	1.5	0.8	1.5	47.2
58°	0.8	0.8	38.0	0.8	0.8	0.8	38.0	0.8	0.8	0.8	38.0
58.5°	0.8	0.8	29.6	0.8	0.8	0.8	29.6	0.8	0.8	0.8	29.6
59°	0.8	0.8	21.9	0.8	0.8	0.8	21.9	0.8	0.8	0.8	21.9
59.5°	0.8	0.8	16.1	0.8	0.8	0.8	16.1	0.8	0.8	0.8	16.1
60°	0.8	0.8	11.1	0.8	0.8	0.8	11.1	0.8	0.8	0.8	11.1
60.5°	0.8	0.8	7.7	0.8	0.8	0.8	7.7	0.8	0.8	0.8	7.7
61°	0.8	0.8	5.0	0.8	0.8	0.8	5.0	0.8	0.8	0.8	5.0
61.5°	0.8	0.8	3.1	0.8	0.8	0.8	3.1	0.8	0.8	0.8	3.1
62°	0.4	0.4	1.5	0.8	0.8	0.8	1.5	0.4	0.4	0.4	1.5
62.5°	0.4	0.4	1.2	0.4	0.4	0.4	1.2	0.4	0.4	0.4	1.2
63°	0.4	0.4	0.8	0.4	0.4	0.4	0.8	0.4	0.4	0.4	0.8
63.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
64°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
64.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
66°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4





TEST NUMBER: P776425

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQMB-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
68°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
68.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
69°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
69.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
73°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
73.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.4	0.4	0.0	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.0
75°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.4	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: P776425  
CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQMB-4000lm-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: P776425

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQMB-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
0.5°	1905.8	1906.2	1905.8	1906.2	1906.2	1907.0
1°	1905.8	1906.2	1905.8	1905.8	1906.2	1906.6
1.5°	1905.5	1905.5	1905.5	1905.5	1905.5	1906.2
2°	1904.7	1905.1	1904.7	1904.7	1905.1	1905.5
2.5°	1903.9	1904.3	1903.9	1903.9	1904.3	1904.7
3°	1903.2	1903.2	1903.2	1903.2	1903.2	1903.9
3.5°	1902.0	1902.0	1902.0	1902.0	1902.4	1902.8
4°	1900.5	1900.9	1900.5	1900.5	1900.9	1901.6
4.5°	1898.9	1899.3	1898.9	1899.3	1899.3	1900.1
5°	1897.4	1897.4	1897.4	1897.4	1897.8	1898.2
5.5°	1895.5	1895.5	1895.5	1895.5	1895.9	1896.2
6°	1893.2	1893.6	1893.2	1893.6	1893.9	1894.3
6.5°	1891.3	1891.3	1891.3	1891.3	1891.6	1892.0
7°	1888.6	1888.6	1888.6	1888.9	1889.3	1889.7
7.5°	1885.9	1885.9	1885.9	1886.3	1886.6	1887.0
8°	1883.2	1883.2	1883.2	1883.6	1883.6	1884.0
8.5°	1880.1	1879.7	1880.1	1880.5	1880.5	1880.9
9°	1876.7	1876.3	1876.7	1877.0	1877.4	1877.4
9.5°	1873.2	1872.8	1873.2	1873.6	1874.0	1874.0
10°	1869.4	1869.0	1869.4	1870.1	1870.1	1870.1
10.5°	1865.5	1865.1	1865.5	1866.3	1866.3	1866.3
11°	1861.3	1860.5	1861.3	1862.1	1862.1	1861.7
11.5°	1856.7	1855.9	1856.7	1857.8	1857.8	1857.5
12°	1852.1	1851.3	1852.1	1853.2	1853.2	1852.9
12.5°	1847.1	1846.3	1847.1	1848.6	1848.2	1847.9
13°	1842.1	1840.9	1842.1	1843.6	1843.3	1842.5
13.5°	1836.7	1835.6	1836.7	1838.3	1837.9	1837.1
14°	1831.0	1829.8	1831.0	1832.9	1832.1	1831.0
14.5°	1825.2	1823.7	1825.2	1827.1	1826.4	1825.2
15°	1819.1	1817.1	1819.1	1821.0	1820.2	1818.7
15.5°	1812.5	1810.6	1812.5	1814.8	1813.7	1812.5
16°	1806.0	1803.7	1806.0	1808.3	1807.2	1805.6
16.5°	1799.1	1796.8	1799.1	1801.4	1800.2	1798.7
17°	1791.8	1789.1	1791.8	1794.5	1793.3	1791.0
17.5°	1784.5	1781.4	1784.5	1787.2	1785.7	1783.7
18°	1776.4	1773.4	1776.4	1779.5	1778.0	1775.7
18.5°	1768.8	1765.3	1768.8	1771.8	1770.3	1767.6
19°	1759.9	1756.5	1759.9	1763.8	1761.8	1759.2
19.5°	1751.5	1748.0	1751.5	1755.3	1753.4	1750.3
20°	1742.6	1738.8	1742.6	1746.9	1744.6	1741.1
20.5°	1733.4	1729.2	1733.4	1738.0	1735.7	1731.9
21°	1724.2	1719.2	1724.2	1728.8	1726.1	1722.3

TEST NUMBER: P776425

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQMB-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1693.9	1687.7	1693.9	1699.2	1696.2	1691.2
23°	1683.1	1676.6	1683.1	1688.9	1685.4	1680.4
23.5°	1672.0	1665.1	1672.0	1678.5	1674.7	1669.3
24°	1660.5	1653.6	1660.5	1667.4	1663.5	1657.4
24.5°	1648.9	1641.6	1648.9	1656.2	1651.6	1645.5
25°	1636.7	1629.0	1636.7	1644.3	1639.7	1633.2
25.5°	1624.4	1616.3	1624.4	1632.8	1627.4	1620.9
26°	1612.1	1603.2	1612.1	1620.5	1615.1	1608.2
26.5°	1599.0	1590.2	1599.0	1607.9	1602.1	1595.2
27°	1586.0	1576.7	1586.0	1595.2	1589.4	1581.4
27.5°	1572.1	1563.3	1572.1	1582.1	1576.0	1567.5
28°	1558.7	1548.7	1558.7	1568.7	1562.2	1553.7
28.5°	1544.9	1534.5	1544.9	1554.9	1548.3	1539.5
29°	1530.7	1519.9	1530.7	1540.7	1534.5	1524.9
29.5°	1516.5	1505.3	1516.5	1526.4	1519.9	1510.3
30°	1501.9	1490.3	1501.9	1511.5	1505.3	1495.0
30.5°	1487.3	1475.0	1487.3	1496.5	1490.7	1480.0
31°	1472.3	1459.2	1472.3	1481.1	1475.8	1464.2
31.5°	1456.9	1443.1	1456.9	1465.4	1460.8	1448.5
32°	1441.6	1422.8	1441.6	1449.6	1445.0	1432.4
32.5°	1425.8	1402.0	1425.8	1433.5	1429.3	1415.5
33°	1410.1	1379.4	1410.1	1417.0	1413.5	1388.2
33.5°	1394.0	1348.6	1394.0	1400.5	1397.8	1358.6
34°	1374.4	1314.5	1374.4	1383.6	1381.7	1322.5
34.5°	1352.9	1273.8	1352.9	1366.7	1364.4	1280.7
35°	1331.0	1229.6	1331.0	1349.8	1338.7	1237.7
35.5°	1303.3	1185.1	1303.3	1332.9	1313.3	1194.7
36°	1272.6	1140.9	1272.6	1315.6	1279.1	1150.1
36.5°	1235.4	1097.5	1235.4	1298.7	1243.0	1105.2
37°	1195.8	1053.0	1195.8	1281.8	1202.0	1059.5
37.5°	1154.0	1009.2	1154.0	1264.5	1160.9	1015.3
38°	1111.3	965.0	1111.3	1247.7	1118.6	969.2
38.5°	1069.5	920.5	1069.5	1230.4	1076.4	924.7
39°	1028.0	875.2	1028.0	1213.9	1033.4	880.2
39.5°	986.5	830.2	986.5	1197.0	991.1	835.6
40°	944.7	785.3	944.7	1180.1	948.1	790.3
40.5°	902.4	741.5	902.4	1163.2	905.9	746.1
41°	860.6	698.1	860.6	1145.9	863.6	703.1
41.5°	817.9	656.7	817.9	1126.7	821.4	660.1
42°	775.7	614.8	775.7	1105.2	779.2	617.1
42.5°	733.8	573.3	733.8	1077.2	737.7	576.0
43°	692.8	533.0	692.8	1045.3	695.8	534.9
43.5°	652.4	492.7	652.4	1011.1	655.1	495.0



TEST NUMBER: P776425

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQMB-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	534.9	380.2	534.9	878.2	536.5	379.8
45.5°	496.9	345.2	496.9	828.3	498.1	345.2
46°	459.3	311.4	459.3	778.8	460.4	311.4
46.5°	422.4	277.3	422.4	730.0	423.6	278.0
47°	387.5	244.2	387.5	681.2	387.5	245.4
47.5°	353.7	214.3	353.7	634.8	353.3	213.9
48°	320.3	186.2	320.3	589.8	320.3	186.2
48.5°	287.6	160.5	287.6	546.4	288.0	160.9
49°	255.8	136.3	255.8	504.2	256.1	139.8
49.5°	225.4	117.5	225.4	463.1	225.4	119.8
50°	197.4	99.5	197.4	423.2	197.4	100.6
50.5°	170.5	82.2	170.5	384.8	172.8	82.9
51°	145.9	68.0	145.9	350.2	149.4	68.0
51.5°	126.0	53.4	126.0	316.4	129.0	54.5
52°	106.8	41.1	106.8	283.4	109.1	43.4
52.5°	88.3	29.2	88.3	251.1	90.6	32.6
53°	72.6	18.0	72.6	221.2	74.1	21.9
53.5°	56.8	10.8	56.8	193.9	59.1	14.6
54°	44.2	6.1	44.2	168.6	47.6	6.9
54.5°	32.6	4.6	32.6	146.7	36.5	4.2
55°	21.5	3.5	21.5	126.0	25.3	2.7
55.5°	14.6	2.3	14.6	106.8	16.1	1.2
56°	10.8	1.2	10.8	89.1	6.9	0.8
56.5°	6.5	0.8	6.5	72.2	3.5	0.8
57°	3.5	0.8	3.5	58.8	1.9	0.8
57.5°	1.5	0.8	1.5	47.2	1.5	0.8
58°	0.8	0.8	0.8	38.0	0.8	0.8
58.5°	0.8	0.8	0.8	29.6	0.8	0.8
59°	0.8	0.8	0.8	21.9	0.8	0.8
59.5°	0.8	0.8	0.8	16.1	0.8	0.8
60°	0.8	0.8	0.8	11.1	0.8	0.8
60.5°	0.8	0.8	0.8	7.7	0.8	0.8
61°	0.8	0.8	0.8	5.0	0.8	0.8
61.5°	0.8	0.8	0.8	3.1	0.8	0.8
62°	0.8	0.8	0.8	1.5	0.4	0.4
62.5°	0.4	0.4	0.4	1.2	0.4	0.4
63°	0.4	0.4	0.4	0.8	0.4	0.4
63.5°	0.4	0.4	0.4	0.4	0.4	0.4
64°	0.4	0.4	0.4	0.4	0.4	0.4
64.5°	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4
65.5°	0.4	0.4	0.4	0.4	0.4	0.4
66°	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P776425

CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQMB-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.4	0.4	0.4	0.4	0.4	0.4
68°	0.4	0.4	0.4	0.4	0.4	0.4
68.5°	0.4	0.4	0.4	0.4	0.4	0.4
69°	0.4	0.4	0.4	0.4	0.4	0.4
69.5°	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4
70.5°	0.4	0.4	0.4	0.4	0.4	0.4
71°	0.4	0.4	0.4	0.4	0.4	0.4
71.5°	0.4	0.4	0.4	0.4	0.4	0.4
72°	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4
73°	0.4	0.4	0.4	0.4	0.4	0.4
73.5°	0.4	0.4	0.4	0.4	0.4	0.4
74°	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.4	0.4	0.4	0.0	0.4	0.4
75°	0.4	0.4	0.4	0.0	0.0	0.0
75.5°	0.4	0.4	0.4	0.0	0.0	0.0
76°	0.0	0.4	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: P776425  
CATALOG NUMBER: HCDJBL3040CSD-HCD6TSQMB-4000lm-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





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

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Scaled Data Report



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Scaled Data Report





21.5°	1712.3	1716.5	1719.2	1714.2	1708.8	1714.2	1719.2	1716.5	1712.3	1716.5	1719.2
22°	1701.9	1706.5	1709.2	1704.2	1698.5	1704.2	1709.2	1706.5	1701.9	1706.5	1709.2



44°	455.4	614.4	969.6	612.5	453.5	612.5	969.6	614.4	455.4	614.4	969.6
44.5°	417.4	575.2	924.7	573.7	415.9	573.7	924.7	575.2	417.4	575.2	924.7



66.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



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°	1714.2	1708.8	1714.2	1719.2	1716.5	1712.3
22°	1704.2	1698.5	1704.2	1709.2	1706.5	1701.9



44°	612.5	453.5	612.5	969.6	614.4	455.4
44.5°	573.7	415.9	573.7	924.7	575.2	417.4

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66.5°	0.4	0.4	0.4	0.4	0.4	0.4
67°	0.4	0.4	0.4	0.4	0.4	0.4

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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)