

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: P776735

Luminaire Tested: HCDJBS4050CSD-HCD6TSQMB-5000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776735
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: HCDJBS4050CSD-HCD6TSQMB-5000lm-2700K
Description: 6 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

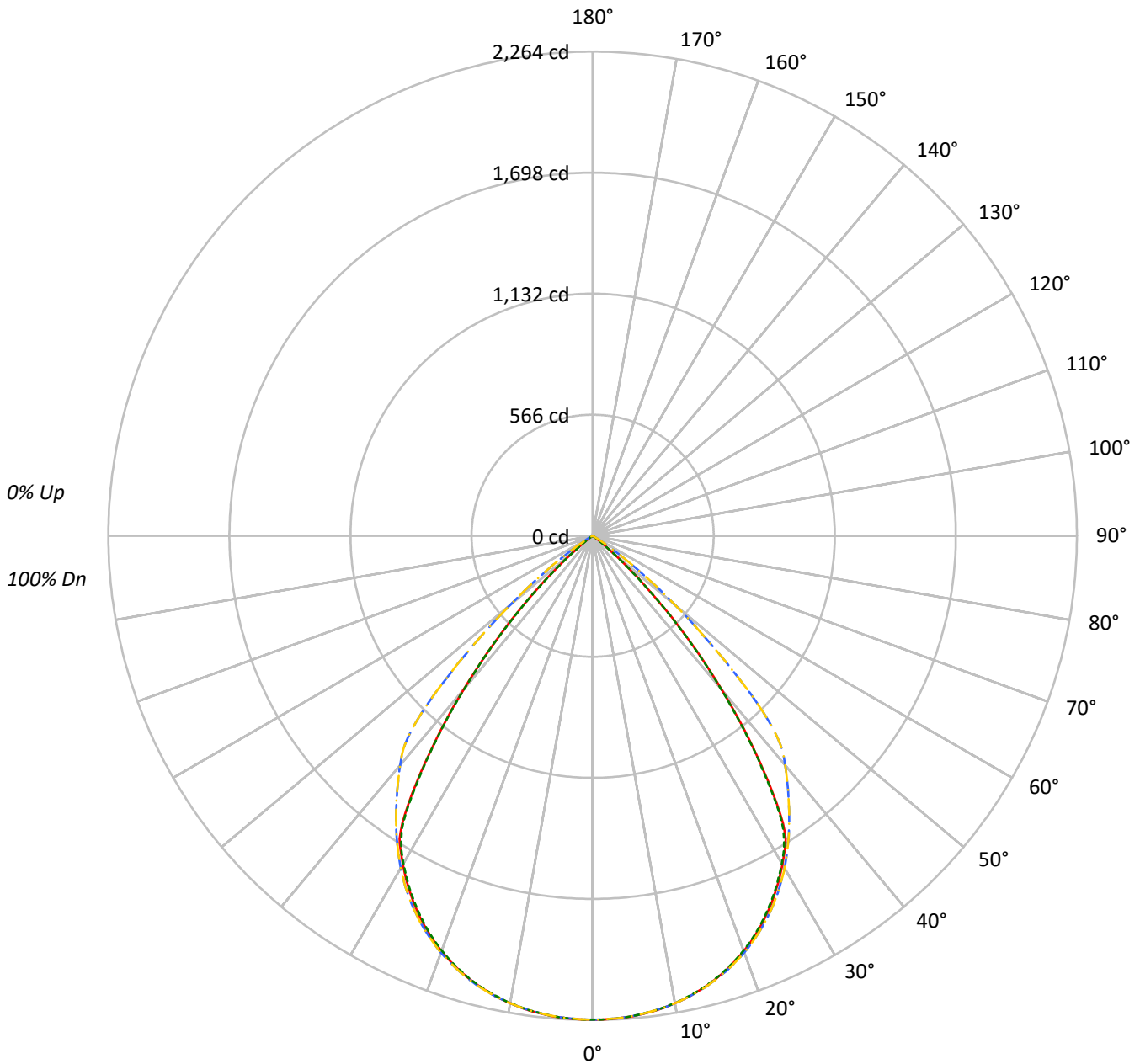
Lumens per Lamp: N/A
Luminaire Lumens: 3264.8 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P776735
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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°	97418	97418	97418	97418
5°	97375	97336	97375	97336
10°	97045	96984	97045	96984
15°	96219	96138	96219	96138
20°	94689	94561	94689	94561
25°	92092	91854	92092	91854
30°	88217	87943	88217	87943
35°	77212	76708	77212	76708
40°	52720	52389	52720	52389
45°	27449	27474	27449	27474
50°	7998	7911	7998	7911
55°	240	308	240	308
60°	78	78	78	78
65°	51	51	51	51
70°	63	63	63	63
75°	0	83	0	83
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 63472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	6.6
10°-20°	608.5	18.6
20°-30°	893.1	27.4
30°-40°	947.6	29.0
40°-50°	529.0	16.2
50°-60°	71.5	2.2
60°-70°	0.9	0.0
70°-80°	0.3	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°	1715.5	52.5
0°-40°	2663.1	81.6
0°-60°	3263.7	100.0
0°-90°	3264.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2263	2263	2263	2263	2263	
5°	2253	2252	2253	2252	2253	214
15°	2159	2157	2159	2157	2159	608
25°	1938	1934	1938	1934	1938	890
35°	1469	1459	1469	1459	1469	887
45°	451	451	451	451	451	360
55°	3	4	3	4	3	20
65°	0	0	0	0	0	1
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°	2262.6	2262.6	2262.6	2262.6	2262.6	2262.6	2262.6	2262.6	2262.6	2262.6	2262.6
0.5°	2263.5	2262.6	2262.6	2262.1	2262.6	2262.1	2262.6	2262.6	2263.5	2262.6	2262.6
1°	2263.0	2262.6	2262.1	2262.1	2262.6	2262.1	2262.1	2262.6	2263.0	2262.6	2262.1
1.5°	2262.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2262.6	2261.6	2261.6
2°	2261.6	2261.2	2260.7	2260.7	2261.2	2260.7	2260.7	2261.2	2261.6	2261.2	2260.7
2.5°	2260.7	2260.3	2259.8	2259.8	2260.3	2259.8	2259.8	2260.3	2260.7	2260.3	2259.8
3°	2259.8	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2258.9	2259.8	2258.9	2258.9
3.5°	2258.5	2258.0	2257.5	2257.5	2257.5	2257.5	2257.5	2258.0	2258.5	2258.0	2257.5
4°	2257.1	2256.2	2255.7	2255.7	2256.2	2255.7	2255.7	2256.2	2257.1	2256.2	2255.7
4.5°	2255.3	2254.3	2254.3	2253.9	2254.3	2253.9	2254.3	2254.3	2255.3	2254.3	2254.3
5°	2253.0	2252.5	2252.1	2252.1	2252.1	2252.1	2252.1	2252.5	2253.0	2252.5	2252.1
5.5°	2250.7	2250.2	2249.8	2249.8	2249.8	2249.8	2249.8	2250.2	2250.7	2250.2	2249.8
6°	2248.4	2248.0	2247.5	2247.1	2247.5	2247.1	2247.5	2248.0	2248.4	2248.0	2247.5
6.5°	2245.7	2245.2	2244.8	2244.8	2244.8	2244.8	2244.8	2245.2	2245.7	2245.2	2244.8
7°	2243.0	2242.5	2242.0	2241.6	2241.6	2241.6	2242.0	2242.5	2243.0	2242.5	2242.0
7.5°	2239.8	2239.3	2238.9	2238.4	2238.4	2238.4	2238.9	2239.3	2239.8	2239.3	2238.9
8°	2236.1	2235.7	2235.7	2235.2	2235.2	2235.2	2235.7	2235.7	2236.1	2235.7	2235.7
8.5°	2232.5	2232.0	2232.0	2231.6	2231.1	2231.6	2232.0	2232.0	2232.5	2232.0	2232.0
9°	2228.4	2228.4	2227.9	2227.5	2227.0	2227.5	2227.9	2228.4	2228.4	2228.4	2227.9
9.5°	2224.3	2224.3	2223.8	2223.4	2222.9	2223.4	2223.8	2224.3	2224.3	2224.3	2223.8
10°	2219.7	2219.7	2219.7	2218.8	2218.3	2218.8	2219.7	2219.7	2219.7	2219.7	2219.7
10.5°	2215.2	2215.2	2215.2	2214.2	2213.8	2214.2	2215.2	2215.2	2215.2	2215.2	2215.2
11°	2209.7	2210.1	2210.1	2209.2	2208.3	2209.2	2210.1	2210.1	2209.7	2210.1	2210.1
11.5°	2204.7	2205.1	2205.1	2203.8	2202.8	2203.8	2205.1	2205.1	2204.7	2205.1	2205.1
12°	2199.2	2199.7	2199.7	2198.3	2197.4	2198.3	2199.7	2199.7	2199.2	2199.7	2199.7
12.5°	2193.3	2193.7	2194.2	2192.4	2191.4	2192.4	2194.2	2193.7	2193.3	2193.7	2194.2
13°	2186.9	2187.8	2188.3	2186.4	2185.1	2186.4	2188.3	2187.8	2186.9	2187.8	2188.3
13.5°	2180.5	2181.4	2181.9	2180.1	2178.7	2180.1	2181.9	2181.4	2180.5	2181.4	2181.9
14°	2173.2	2174.6	2175.5	2173.2	2171.9	2173.2	2175.5	2174.6	2173.2	2174.6	2175.5
14.5°	2166.4	2167.7	2168.7	2166.4	2164.6	2166.4	2168.7	2167.7	2166.4	2167.7	2168.7
15°	2158.6	2160.5	2161.4	2159.1	2156.8	2159.1	2161.4	2160.5	2158.6	2160.5	2161.4
15.5°	2151.3	2152.7	2154.1	2151.3	2149.1	2151.3	2154.1	2152.7	2151.3	2152.7	2154.1
16°	2143.1	2145.0	2146.3	2143.6	2140.9	2143.6	2146.3	2145.0	2143.1	2145.0	2146.3
16.5°	2134.9	2136.8	2138.1	2135.4	2132.7	2135.4	2138.1	2136.8	2134.9	2136.8	2138.1
17°	2125.8	2128.6	2129.9	2126.7	2123.5	2126.7	2129.9	2128.6	2125.8	2128.6	2129.9
17.5°	2117.2	2119.4	2121.3	2118.1	2114.4	2118.1	2121.3	2119.4	2117.2	2119.4	2121.3
18°	2107.6	2110.3	2112.1	2108.5	2104.8	2108.5	2112.1	2110.3	2107.6	2110.3	2112.1
18.5°	2098.0	2101.2	2103.0	2099.4	2095.3	2099.4	2103.0	2101.2	2098.0	2101.2	2103.0
19°	2088.0	2091.2	2093.5	2088.9	2084.8	2088.9	2093.5	2091.2	2088.0	2091.2	2093.5
19.5°	2077.5	2081.1	2083.4	2078.9	2074.8	2078.9	2083.4	2081.1	2077.5	2081.1	2083.4
20°	2066.6	2070.7	2073.4	2068.4	2063.8	2068.4	2073.4	2070.7	2066.6	2070.7	2073.4
20.5°	2055.6	2060.2	2062.9	2057.4	2052.4	2057.4	2062.9	2060.2	2055.6	2060.2	2062.9
21°	2044.2	2048.8	2052.0	2046.5	2040.6	2046.5	2052.0	2048.8	2044.2	2048.8	2052.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2007.3	2013.2	2016.9	2010.5	2003.2	2010.5	2016.9	2013.2	2007.3	2013.2	2016.9
23°	1994.5	2000.5	2004.6	1997.7	1990.0	1997.7	2004.6	2000.5	1994.5	2000.5	2004.6
23.5°	1981.3	1987.7	1992.3	1984.5	1976.3	1984.5	1992.3	1987.7	1981.3	1987.7	1992.3
24°	1967.2	1974.5	1979.1	1970.8	1962.6	1970.8	1979.1	1974.5	1967.2	1974.5	1979.1
24.5°	1953.1	1960.4	1965.8	1957.2	1948.5	1957.2	1965.8	1960.4	1953.1	1960.4	1965.8
25°	1938.5	1946.2	1951.7	1942.6	1933.5	1942.6	1951.7	1946.2	1938.5	1946.2	1951.7
25.5°	1923.9	1931.6	1938.0	1928.0	1918.4	1928.0	1938.0	1931.6	1923.9	1931.6	1938.0
26°	1908.9	1917.1	1923.4	1913.4	1902.9	1913.4	1923.4	1917.1	1908.9	1917.1	1923.4
26.5°	1893.4	1901.6	1908.4	1897.9	1887.4	1897.9	1908.4	1901.6	1893.4	1901.6	1908.4
27°	1877.0	1886.5	1893.4	1882.4	1871.5	1882.4	1893.4	1886.5	1877.0	1886.5	1893.4
27.5°	1860.5	1870.6	1877.9	1866.0	1855.5	1866.0	1877.9	1870.6	1860.5	1870.6	1877.9
28°	1844.1	1854.2	1861.9	1850.1	1838.2	1850.1	1861.9	1854.2	1844.1	1854.2	1861.9
28.5°	1827.3	1837.8	1845.5	1833.7	1821.3	1833.7	1845.5	1837.8	1827.3	1837.8	1845.5
29°	1810.0	1821.3	1828.6	1816.8	1804.0	1816.8	1828.6	1821.3	1810.0	1821.3	1828.6
29.5°	1792.6	1804.0	1811.8	1799.9	1786.7	1799.9	1811.8	1804.0	1792.6	1804.0	1811.8
30°	1774.4	1786.7	1794.0	1782.6	1768.9	1782.6	1794.0	1786.7	1774.4	1786.7	1794.0
30.5°	1756.6	1769.4	1776.2	1765.3	1750.7	1765.3	1776.2	1769.4	1756.6	1769.4	1776.2
31°	1737.9	1751.6	1758.0	1747.5	1732.0	1747.5	1758.0	1751.6	1737.9	1751.6	1758.0
31.5°	1719.2	1733.8	1739.3	1729.3	1712.9	1729.3	1739.3	1733.8	1719.2	1733.8	1739.3
32°	1700.1	1715.1	1720.6	1711.0	1688.7	1711.0	1720.6	1715.1	1700.1	1715.1	1720.6
32.5°	1680.1	1696.5	1701.5	1692.4	1664.1	1692.4	1701.5	1696.5	1680.1	1696.5	1701.5
33°	1647.7	1677.8	1681.9	1673.7	1637.2	1673.7	1681.9	1677.8	1647.7	1677.8	1681.9
33.5°	1612.6	1659.1	1662.3	1654.5	1600.7	1654.5	1662.3	1659.1	1612.6	1659.1	1662.3
34°	1569.7	1639.9	1642.2	1631.3	1560.2	1631.3	1642.2	1639.9	1569.7	1639.9	1642.2
34.5°	1520.1	1619.4	1622.2	1605.8	1511.9	1605.8	1622.2	1619.4	1520.1	1619.4	1622.2
35°	1469.0	1588.9	1602.1	1579.8	1459.4	1579.8	1602.1	1588.9	1469.0	1588.9	1602.1
35.5°	1418.0	1558.8	1582.1	1547.0	1406.6	1547.0	1582.1	1558.8	1418.0	1558.8	1582.1
36°	1365.1	1518.2	1561.5	1510.5	1354.2	1510.5	1561.5	1518.2	1365.1	1518.2	1561.5
36.5°	1311.8	1475.4	1541.5	1466.3	1302.7	1466.3	1541.5	1475.4	1311.8	1475.4	1541.5
37°	1257.5	1426.6	1521.4	1419.3	1249.8	1419.3	1521.4	1426.6	1257.5	1426.6	1521.4
37.5°	1205.1	1377.9	1500.9	1369.7	1197.8	1369.7	1500.9	1377.9	1205.1	1377.9	1500.9
38°	1150.4	1327.7	1480.9	1319.1	1145.4	1319.1	1480.9	1327.7	1150.4	1327.7	1480.9
38.5°	1097.5	1277.6	1460.4	1269.4	1092.5	1269.4	1460.4	1277.6	1097.5	1277.6	1460.4
39°	1044.7	1226.5	1440.8	1220.2	1038.8	1220.2	1440.8	1226.5	1044.7	1226.5	1440.8
39.5°	991.8	1176.4	1420.7	1170.9	985.4	1170.9	1420.7	1176.4	991.8	1176.4	1420.7
40°	938.0	1125.4	1400.6	1121.2	932.1	1121.2	1400.6	1125.4	938.0	1125.4	1400.6
40.5°	885.6	1075.2	1380.6	1071.1	880.1	1071.1	1380.6	1075.2	885.6	1075.2	1380.6
41°	834.6	1025.1	1360.1	1021.4	828.6	1021.4	1360.1	1025.1	834.6	1025.1	1360.1
41.5°	783.5	974.9	1337.3	970.8	779.4	970.8	1337.3	974.9	783.5	974.9	1337.3
42°	732.5	924.8	1311.8	920.7	729.7	920.7	1311.8	924.8	732.5	924.8	1311.8
42.5°	683.7	875.6	1278.5	871.0	680.5	871.0	1278.5	875.6	683.7	875.6	1278.5
43°	634.9	825.9	1240.7	822.2	632.6	822.2	1240.7	825.9	634.9	825.9	1240.7
43.5°	587.5	777.6	1200.1	774.4	584.8	774.4	1200.1	777.6	587.5	777.6	1200.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	450.8	636.7	1042.4	634.9	451.2	634.9	1042.4	636.7	450.8	636.7	1042.4
45.5°	409.8	591.2	983.1	589.8	409.8	589.8	983.1	591.2	409.8	591.2	983.1
46°	369.6	546.5	924.3	545.1	369.6	545.1	924.3	546.5	369.6	546.5	924.3
46.5°	330.0	502.7	866.5	501.4	329.1	501.4	866.5	502.7	330.0	502.7	866.5
47°	291.3	459.9	808.6	459.9	289.9	459.9	808.6	459.9	291.3	459.9	808.6
47.5°	253.9	419.3	753.4	419.8	254.3	419.8	753.4	419.3	253.9	419.3	753.4
48°	221.1	380.1	700.1	380.1	221.1	380.1	700.1	380.1	221.1	380.1	700.1
48.5°	191.0	341.8	648.6	341.4	190.5	341.4	648.6	341.8	191.0	341.8	648.6
49°	165.9	304.0	598.5	303.6	161.8	303.6	598.5	304.0	165.9	304.0	598.5
49.5°	142.2	267.6	549.7	267.6	139.5	267.6	549.7	267.6	142.2	267.6	549.7
50°	119.4	234.3	502.3	234.3	118.1	234.3	502.3	234.3	119.4	234.3	502.3
50.5°	98.5	205.1	456.7	202.4	97.5	202.4	456.7	205.1	98.5	205.1	456.7
51°	80.7	177.3	415.7	173.2	80.7	173.2	415.7	177.3	80.7	177.3	415.7
51.5°	64.7	153.1	375.6	149.5	63.4	149.5	375.6	153.1	64.7	153.1	375.6
52°	51.5	129.4	336.4	126.7	48.8	126.7	336.4	129.4	51.5	129.4	336.4
52.5°	38.7	107.6	298.1	104.8	34.6	104.8	298.1	107.6	38.7	107.6	298.1
53°	26.0	88.0	262.5	86.1	21.4	86.1	262.5	88.0	26.0	88.0	262.5
53.5°	17.3	70.2	230.2	67.5	12.8	67.5	230.2	70.2	17.3	70.2	230.2
54°	8.2	56.5	200.1	52.4	7.3	52.4	200.1	56.5	8.2	56.5	200.1
54.5°	5.0	43.3	174.1	38.7	5.5	38.7	174.1	43.3	5.0	43.3	174.1
55°	3.2	30.1	149.5	25.5	4.1	25.5	149.5	30.1	3.2	30.1	149.5
55.5°	1.4	19.1	126.7	17.3	2.7	17.3	126.7	19.1	1.4	19.1	126.7
56°	0.9	8.2	105.7	12.8	1.4	12.8	105.7	8.2	0.9	8.2	105.7
56.5°	0.9	4.1	85.7	7.7	0.9	7.7	85.7	4.1	0.9	4.1	85.7
57°	0.9	2.3	69.7	4.1	0.9	4.1	69.7	2.3	0.9	2.3	69.7
57.5°	0.9	1.8	56.1	1.8	0.9	1.8	56.1	1.8	0.9	1.8	56.1
58°	0.9	0.9	45.1	0.9	0.9	0.9	45.1	0.9	0.9	0.9	45.1
58.5°	0.9	0.9	35.1	0.9	0.9	0.9	35.1	0.9	0.9	0.9	35.1
59°	0.9	0.9	26.0	0.9	0.9	0.9	26.0	0.9	0.9	0.9	26.0
59.5°	0.9	0.9	19.1	0.9	0.9	0.9	19.1	0.9	0.9	0.9	19.1
60°	0.9	0.9	13.2	0.9	0.9	0.9	13.2	0.9	0.9	0.9	13.2
60.5°	0.9	0.9	9.1	0.9	0.9	0.9	9.1	0.9	0.9	0.9	9.1
61°	0.9	0.9	5.9	0.9	0.9	0.9	5.9	0.9	0.9	0.9	5.9
61.5°	0.9	0.9	3.6	0.9	0.9	0.9	3.6	0.9	0.9	0.9	3.6
62°	0.5	0.5	1.8	0.9	0.9	0.9	1.8	0.5	0.5	0.5	1.8
62.5°	0.5	0.5	1.4	0.5	0.5	0.5	1.4	0.5	0.5	0.5	1.4
63°	0.5	0.5	0.9	0.5	0.5	0.5	0.9	0.5	0.5	0.5	0.9
63.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776735

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.0	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.0
75°	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.5	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: P776735
CATALOG NUMBER: HCDJBL4050CSD-HCD6TSQMB-5000lm-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: P776735

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2262.6	2262.6	2262.6	2262.6	2262.6	2262.6
0.5°	2262.1	2262.6	2262.1	2262.6	2262.6	2263.5
1°	2262.1	2262.6	2262.1	2262.1	2262.6	2263.0
1.5°	2261.6	2261.6	2261.6	2261.6	2261.6	2262.6
2°	2260.7	2261.2	2260.7	2260.7	2261.2	2261.6
2.5°	2259.8	2260.3	2259.8	2259.8	2260.3	2260.7
3°	2258.9	2258.9	2258.9	2258.9	2258.9	2259.8
3.5°	2257.5	2257.5	2257.5	2257.5	2258.0	2258.5
4°	2255.7	2256.2	2255.7	2255.7	2256.2	2257.1
4.5°	2253.9	2254.3	2253.9	2254.3	2254.3	2255.3
5°	2252.1	2252.1	2252.1	2252.1	2252.5	2253.0
5.5°	2249.8	2249.8	2249.8	2249.8	2250.2	2250.7
6°	2247.1	2247.5	2247.1	2247.5	2248.0	2248.4
6.5°	2244.8	2244.8	2244.8	2244.8	2245.2	2245.7
7°	2241.6	2241.6	2241.6	2242.0	2242.5	2243.0
7.5°	2238.4	2238.4	2238.4	2238.9	2239.3	2239.8
8°	2235.2	2235.2	2235.2	2235.7	2235.7	2236.1
8.5°	2231.6	2231.1	2231.6	2232.0	2232.0	2232.5
9°	2227.5	2227.0	2227.5	2227.9	2228.4	2228.4
9.5°	2223.4	2222.9	2223.4	2223.8	2224.3	2224.3
10°	2218.8	2218.3	2218.8	2219.7	2219.7	2219.7
10.5°	2214.2	2213.8	2214.2	2215.2	2215.2	2215.2
11°	2209.2	2208.3	2209.2	2210.1	2210.1	2209.7
11.5°	2203.8	2202.8	2203.8	2205.1	2205.1	2204.7
12°	2198.3	2197.4	2198.3	2199.7	2199.7	2199.2
12.5°	2192.4	2191.4	2192.4	2194.2	2193.7	2193.3
13°	2186.4	2185.1	2186.4	2188.3	2187.8	2186.9
13.5°	2180.1	2178.7	2180.1	2181.9	2181.4	2180.5
14°	2173.2	2171.9	2173.2	2175.5	2174.6	2173.2
14.5°	2166.4	2164.6	2166.4	2168.7	2167.7	2166.4
15°	2159.1	2156.8	2159.1	2161.4	2160.5	2158.6
15.5°	2151.3	2149.1	2151.3	2154.1	2152.7	2151.3
16°	2143.6	2140.9	2143.6	2146.3	2145.0	2143.1
16.5°	2135.4	2132.7	2135.4	2138.1	2136.8	2134.9
17°	2126.7	2123.5	2126.7	2129.9	2128.6	2125.8
17.5°	2118.1	2114.4	2118.1	2121.3	2119.4	2117.2
18°	2108.5	2104.8	2108.5	2112.1	2110.3	2107.6
18.5°	2099.4	2095.3	2099.4	2103.0	2101.2	2098.0
19°	2088.9	2084.8	2088.9	2093.5	2091.2	2088.0
19.5°	2078.9	2074.8	2078.9	2083.4	2081.1	2077.5
20°	2068.4	2063.8	2068.4	2073.4	2070.7	2066.6
20.5°	2057.4	2052.4	2057.4	2062.9	2060.2	2055.6
21°	2046.5	2040.6	2046.5	2052.0	2048.8	2044.2

TEST NUMBER: P776735

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2010.5	2003.2	2010.5	2016.9	2013.2	2007.3
23°	1997.7	1990.0	1997.7	2004.6	2000.5	1994.5
23.5°	1984.5	1976.3	1984.5	1992.3	1987.7	1981.3
24°	1970.8	1962.6	1970.8	1979.1	1974.5	1967.2
24.5°	1957.2	1948.5	1957.2	1965.8	1960.4	1953.1
25°	1942.6	1933.5	1942.6	1951.7	1946.2	1938.5
25.5°	1928.0	1918.4	1928.0	1938.0	1931.6	1923.9
26°	1913.4	1902.9	1913.4	1923.4	1917.1	1908.9
26.5°	1897.9	1887.4	1897.9	1908.4	1901.6	1893.4
27°	1882.4	1871.5	1882.4	1893.4	1886.5	1877.0
27.5°	1866.0	1855.5	1866.0	1877.9	1870.6	1860.5
28°	1850.1	1838.2	1850.1	1861.9	1854.2	1844.1
28.5°	1833.7	1821.3	1833.7	1845.5	1837.8	1827.3
29°	1816.8	1804.0	1816.8	1828.6	1821.3	1810.0
29.5°	1799.9	1786.7	1799.9	1811.8	1804.0	1792.6
30°	1782.6	1768.9	1782.6	1794.0	1786.7	1774.4
30.5°	1765.3	1750.7	1765.3	1776.2	1769.4	1756.6
31°	1747.5	1732.0	1747.5	1758.0	1751.6	1737.9
31.5°	1729.3	1712.9	1729.3	1739.3	1733.8	1719.2
32°	1711.0	1688.7	1711.0	1720.6	1715.1	1700.1
32.5°	1692.4	1664.1	1692.4	1701.5	1696.5	1680.1
33°	1673.7	1637.2	1673.7	1681.9	1677.8	1647.7
33.5°	1654.5	1600.7	1654.5	1662.3	1659.1	1612.6
34°	1631.3	1560.2	1631.3	1642.2	1639.9	1569.7
34.5°	1605.8	1511.9	1605.8	1622.2	1619.4	1520.1
35°	1579.8	1459.4	1579.8	1602.1	1588.9	1469.0
35.5°	1547.0	1406.6	1547.0	1582.1	1558.8	1418.0
36°	1510.5	1354.2	1510.5	1561.5	1518.2	1365.1
36.5°	1466.3	1302.7	1466.3	1541.5	1475.4	1311.8
37°	1419.3	1249.8	1419.3	1521.4	1426.6	1257.5
37.5°	1369.7	1197.8	1369.7	1500.9	1377.9	1205.1
38°	1319.1	1145.4	1319.1	1480.9	1327.7	1150.4
38.5°	1269.4	1092.5	1269.4	1460.4	1277.6	1097.5
39°	1220.2	1038.8	1220.2	1440.8	1226.5	1044.7
39.5°	1170.9	985.4	1170.9	1420.7	1176.4	991.8
40°	1121.2	932.1	1121.2	1400.6	1125.4	938.0
40.5°	1071.1	880.1	1071.1	1380.6	1075.2	885.6
41°	1021.4	828.6	1021.4	1360.1	1025.1	834.6
41.5°	970.8	779.4	970.8	1337.3	974.9	783.5
42°	920.7	729.7	920.7	1311.8	924.8	732.5
42.5°	871.0	680.5	871.0	1278.5	875.6	683.7
43°	822.2	632.6	822.2	1240.7	825.9	634.9
43.5°	774.4	584.8	774.4	1200.1	777.6	587.5



TEST NUMBER: P776735

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	634.9	451.2	634.9	1042.4	636.7	450.8
45.5°	589.8	409.8	589.8	983.1	591.2	409.8
46°	545.1	369.6	545.1	924.3	546.5	369.6
46.5°	501.4	329.1	501.4	866.5	502.7	330.0
47°	459.9	289.9	459.9	808.6	459.9	291.3
47.5°	419.8	254.3	419.8	753.4	419.3	253.9
48°	380.1	221.1	380.1	700.1	380.1	221.1
48.5°	341.4	190.5	341.4	648.6	341.8	191.0
49°	303.6	161.8	303.6	598.5	304.0	165.9
49.5°	267.6	139.5	267.6	549.7	267.6	142.2
50°	234.3	118.1	234.3	502.3	234.3	119.4
50.5°	202.4	97.5	202.4	456.7	205.1	98.5
51°	173.2	80.7	173.2	415.7	177.3	80.7
51.5°	149.5	63.4	149.5	375.6	153.1	64.7
52°	126.7	48.8	126.7	336.4	129.4	51.5
52.5°	104.8	34.6	104.8	298.1	107.6	38.7
53°	86.1	21.4	86.1	262.5	88.0	26.0
53.5°	67.5	12.8	67.5	230.2	70.2	17.3
54°	52.4	7.3	52.4	200.1	56.5	8.2
54.5°	38.7	5.5	38.7	174.1	43.3	5.0
55°	25.5	4.1	25.5	149.5	30.1	3.2
55.5°	17.3	2.7	17.3	126.7	19.1	1.4
56°	12.8	1.4	12.8	105.7	8.2	0.9
56.5°	7.7	0.9	7.7	85.7	4.1	0.9
57°	4.1	0.9	4.1	69.7	2.3	0.9
57.5°	1.8	0.9	1.8	56.1	1.8	0.9
58°	0.9	0.9	0.9	45.1	0.9	0.9
58.5°	0.9	0.9	0.9	35.1	0.9	0.9
59°	0.9	0.9	0.9	26.0	0.9	0.9
59.5°	0.9	0.9	0.9	19.1	0.9	0.9
60°	0.9	0.9	0.9	13.2	0.9	0.9
60.5°	0.9	0.9	0.9	9.1	0.9	0.9
61°	0.9	0.9	0.9	5.9	0.9	0.9
61.5°	0.9	0.9	0.9	3.6	0.9	0.9
62°	0.9	0.9	0.9	1.8	0.5	0.5
62.5°	0.5	0.5	0.5	1.4	0.5	0.5
63°	0.5	0.5	0.5	0.9	0.5	0.5
63.5°	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776735

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.0	0.5	0.5
75°	0.5	0.5	0.5	0.0	0.0	0.0
75.5°	0.5	0.5	0.5	0.0	0.0	0.0
76°	0.0	0.5	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: P776735
CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQMB-5000lm-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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Cooper Lighting Solutions Photometric Lab
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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°	2032.4	2037.4	2040.6	2034.7	2028.3	2034.7	2040.6	2037.4	2032.4	2037.4	2040.6
22°	2020.1	2025.5	2028.7	2022.8	2016.0	2022.8	2028.7	2025.5	2020.1	2025.5	2028.7



44°	540.6	729.3	1150.9	727.0	538.3	727.0	1150.9	729.3	540.6	729.3	1150.9
44.5°	495.4	682.8	1097.5	681.0	493.6	681.0	1097.5	682.8	495.4	682.8	1097.5



66.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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°	2034.7	2028.3	2034.7	2040.6	2037.4	2032.4
22°	2022.8	2016.0	2022.8	2028.7	2025.5	2020.1



44°	727.0	538.3	727.0	1150.9	729.3	540.6
44.5°	681.0	493.6	681.0	1097.5	682.8	495.4

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66.5°	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.5	0.5	0.5	0.5

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Scaled Data Report



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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Scaled Data Report



(END OF REPORT)