

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: P776203

Luminaire Tested: HCDJBL51525CSD-HCD8TSQC-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQC-2500lm-4000K
Description: 8 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

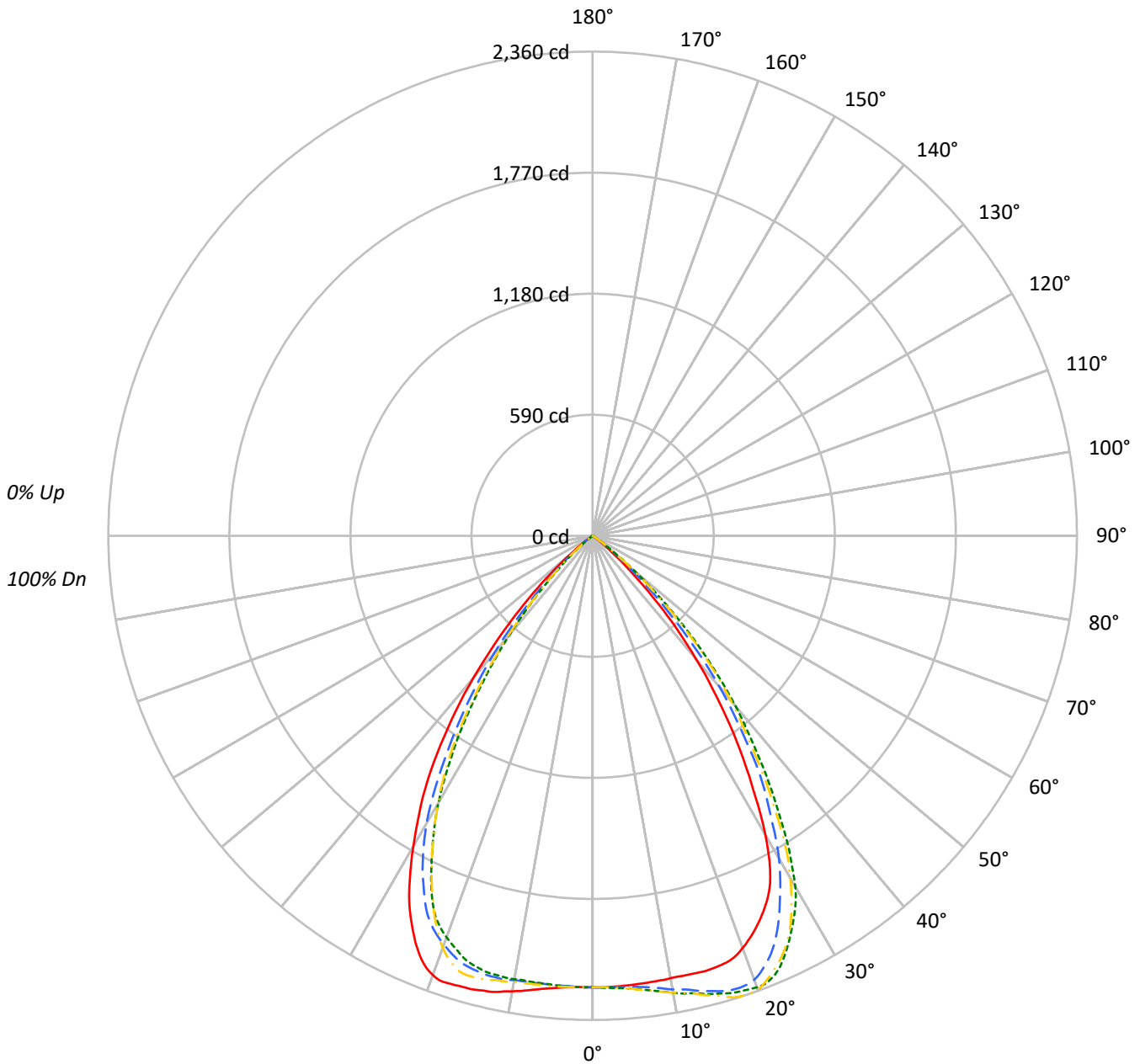
Lumens per Lamp: N/A
Luminaire Lumens: 2957.9 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.07
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78																			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72																			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56																			
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52																			
9	71	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48																			
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	52765	52765	52765	52765
5°	52899	53356	53265	52903
10°	53311	55069	54896	53442
15°	54385	57384	56791	54038
20°	54574	59764	58121	53119
25°	52690	59066	55198	49253
30°	46673	54733	48404	41640
35°	35823	44655	39588	31149
40°	24619	33937	28193	19614
45°	12947	22042	16138	9190
50°	4342	9956	6204	2977
55°	309	2157	681	75
60°	48	62	48	38
65°	28	28	28	17
70°	21	21	21	21
75°	28	28	28	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 22276 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	7.1
10°-20°	635.3	21.5
20°-30°	926.4	31.3
30°-40°	798.3	27.0
40°-50°	351.0	11.9
50°-60°	35.0	1.2
60°-70°	0.6	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°	1773.0	59.9
0°-40°	2571.3	86.9
0°-60°	2957.2	100.0
0°-90°	2957.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2200	2200	2200	2200	2200	
5°	2198	2217	2213	2198	2198	210
15°	2191	2312	2288	2177	2191	618
25°	1992	2232	2086	1862	1992	904
35°	1224	1526	1352	1064	1224	759
45°	382	650	476	271	382	305
55°	7	52	16	2	7	25
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°	2200.5	2200.5	2200.5	2200.5	2200.5	2200.5	2200.5	2200.5	2200.5	2200.5	2200.5
0.5°	2201.0	2202.0	2202.5	2200.7	2201.5	2200.2	2199.2	2199.7	2200.5	2201.2	2201.2
1°	2201.0	2202.2	2202.8	2202.0	2202.2	2201.0	2199.4	2200.0	2200.7	2201.2	2201.2
1.5°	2201.0	2202.0	2202.5	2202.8	2203.8	2202.2	2200.2	2200.7	2200.7	2201.0	2200.7
2°	2200.5	2201.2	2202.2	2203.5	2205.3	2204.0	2202.2	2202.0	2201.5	2201.0	2200.5
2.5°	2200.5	2201.2	2202.5	2203.5	2206.6	2206.6	2204.0	2203.5	2203.0	2201.2	2199.7
3°	2199.7	2201.0	2202.8	2204.3	2207.6	2207.3	2206.6	2206.3	2204.0	2201.5	2199.2
3.5°	2199.2	2200.5	2203.5	2205.8	2208.9	2209.1	2208.6	2208.3	2205.5	2202.2	2198.7
4°	2198.4	2199.7	2204.3	2207.6	2211.1	2211.6	2211.1	2211.4	2207.8	2202.8	2198.2
4.5°	2198.2	2199.7	2205.5	2209.9	2213.7	2214.7	2214.2	2213.9	2210.4	2203.8	2197.2
5°	2197.7	2199.7	2207.1	2212.9	2216.7	2217.5	2217.7	2217.7	2212.9	2204.8	2197.2
5.5°	2197.2	2200.7	2209.1	2216.5	2219.8	2220.8	2221.1	2222.1	2216.2	2206.1	2196.9
6°	2196.4	2201.2	2211.4	2219.8	2223.3	2224.4	2225.1	2226.1	2219.5	2207.8	2196.9
6.5°	2195.4	2202.0	2214.4	2223.9	2227.4	2227.9	2229.4	2230.5	2223.6	2210.4	2197.2
7°	2194.4	2202.8	2217.7	2228.4	2231.7	2231.7	2233.5	2235.3	2227.9	2212.7	2197.2
7.5°	2193.6	2203.8	2221.6	2233.8	2236.1	2236.1	2237.3	2239.6	2232.2	2215.5	2197.2
8°	2193.3	2205.3	2225.4	2239.1	2240.6	2240.6	2242.4	2245.2	2237.1	2218.0	2197.4
8.5°	2192.8	2207.8	2229.7	2244.7	2245.5	2246.0	2247.2	2250.3	2241.9	2220.5	2197.9
9°	2192.3	2210.6	2234.8	2251.1	2251.1	2251.1	2251.8	2255.9	2246.5	2223.3	2198.2
9.5°	2191.1	2212.9	2240.4	2256.9	2255.9	2256.4	2256.4	2261.0	2250.8	2225.9	2198.2
10°	2189.5	2215.2	2245.0	2263.3	2261.7	2262.2	2261.5	2265.3	2254.6	2228.4	2199.4
10.5°	2188.5	2217.0	2249.0	2268.8	2267.3	2267.8	2266.3	2269.4	2258.4	2232.0	2202.5
11°	2188.5	2219.3	2252.8	2273.2	2272.7	2272.9	2270.6	2273.2	2262.5	2237.1	2205.0
11.5°	2189.5	2222.6	2256.9	2277.2	2276.7	2277.2	2274.7	2277.5	2268.6	2241.6	2205.8
12°	2190.0	2226.9	2262.5	2281.8	2279.8	2281.8	2279.8	2283.8	2273.4	2246.0	2205.0
12.5°	2190.0	2231.2	2269.4	2286.9	2283.8	2286.6	2285.9	2289.9	2277.2	2246.7	2203.8
13°	2189.8	2233.8	2276.2	2293.3	2289.2	2292.5	2293.5	2294.8	2279.0	2248.0	2203.5
13.5°	2190.3	2235.3	2282.6	2299.1	2296.0	2299.1	2301.9	2297.6	2280.3	2250.5	2202.8
14°	2191.3	2236.6	2287.1	2303.2	2302.7	2306.5	2308.8	2299.4	2282.6	2253.1	2201.0
14.5°	2191.6	2238.3	2292.2	2305.5	2307.7	2312.1	2314.4	2302.1	2285.4	2254.9	2197.9
15°	2190.8	2239.6	2298.1	2307.5	2311.6	2315.9	2320.5	2306.5	2287.7	2256.1	2194.6
15.5°	2188.8	2239.6	2303.9	2311.6	2315.6	2318.7	2328.6	2310.0	2288.2	2256.4	2190.8
16°	2186.7	2237.6	2309.3	2315.1	2320.7	2322.7	2337.7	2312.3	2288.4	2257.4	2187.5
16.5°	2184.4	2234.5	2312.8	2316.6	2326.0	2327.6	2345.9	2313.1	2288.9	2258.2	2183.7
17°	2181.9	2231.0	2315.1	2316.6	2330.1	2330.9	2352.0	2312.1	2289.9	2258.9	2178.3
17.5°	2179.1	2227.9	2316.4	2315.9	2332.7	2332.4	2355.8	2311.0	2291.0	2257.9	2171.5
18°	2175.0	2224.6	2316.4	2314.9	2334.4	2332.1	2357.8	2310.3	2292.5	2253.3	2162.1
18.5°	2168.2	2221.3	2315.4	2313.6	2336.2	2332.1	2359.1	2309.0	2293.0	2246.0	2151.7
19°	2159.3	2217.0	2313.6	2312.6	2338.2	2333.2	2360.1	2307.5	2291.0	2234.5	2141.7
19.5°	2149.4	2211.4	2310.3	2311.3	2340.0	2334.9	2358.6	2303.4	2285.6	2222.3	2131.3
20°	2138.7	2204.0	2303.7	2309.3	2342.1	2336.7	2354.5	2296.8	2277.7	2208.9	2120.1
20.5°	2127.0	2195.9	2293.8	2305.5	2342.8	2337.2	2346.4	2289.2	2269.1	2194.1	2108.4
21°	2114.3	2187.2	2281.0	2299.1	2341.0	2335.2	2335.2	2280.3	2257.4	2176.8	2096.2

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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°	2073.1	2155.5	2235.5	2272.7	2317.7	2325.3	2298.6	2252.6	2206.8	2119.1	2053.0
23°	2057.8	2141.0	2218.3	2263.3	2305.5	2318.9	2284.6	2240.9	2185.7	2097.3	2035.5
23.5°	2042.1	2124.2	2198.7	2251.3	2290.7	2310.8	2269.6	2227.9	2163.1	2074.4	2015.9
24°	2026.1	2105.1	2177.3	2238.6	2272.9	2299.6	2253.8	2212.7	2137.9	2050.0	1993.3
24.5°	2009.3	2083.3	2153.2	2224.1	2252.8	2286.1	2237.3	2195.1	2112.8	2024.0	1968.4
25°	1991.5	2059.9	2127.8	2206.6	2232.5	2269.1	2218.8	2174.3	2086.3	1995.8	1939.9
25.5°	1972.4	2035.0	2099.8	2186.5	2210.9	2249.5	2198.7	2151.1	2060.1	1967.9	1911.7
26°	1952.4	2008.5	2070.8	2163.1	2188.5	2227.2	2175.8	2125.2	2030.9	1936.3	1883.2
26.5°	1929.5	1980.8	2040.3	2137.2	2164.6	2201.7	2151.7	2096.5	2000.9	1904.6	1854.7
27°	1904.3	1950.1	2009.0	2107.4	2141.2	2173.8	2124.2	2064.7	1970.1	1873.0	1826.3
27.5°	1874.6	1917.8	1978.3	2074.1	2117.6	2145.0	2095.7	2031.9	1933.8	1841.5	1792.5
28°	1842.3	1884.0	1947.3	2037.3	2092.9	2111.5	2064.0	1997.6	1897.4	1810.0	1759.2
28.5°	1806.9	1849.1	1917.0	1998.4	2067.5	2076.9	2030.4	1965.1	1861.1	1776.4	1725.3
29°	1768.8	1814.8	1884.7	1959.5	2040.6	2041.1	1997.1	1927.9	1824.7	1741.9	1690.0
29.5°	1727.9	1779.2	1851.7	1920.6	2010.6	2003.7	1964.0	1890.6	1788.1	1707.0	1654.4
30°	1685.7	1744.2	1816.9	1880.9	1976.8	1963.5	1926.4	1853.2	1748.2	1669.7	1617.6
30.5°	1639.2	1709.6	1778.7	1842.3	1934.3	1923.4	1888.8	1816.1	1709.1	1632.3	1579.2
31°	1591.9	1675.8	1738.1	1803.4	1891.8	1883.2	1851.4	1773.4	1671.4	1593.1	1536.2
31.5°	1543.3	1639.9	1696.6	1765.0	1849.4	1843.0	1813.8	1730.2	1632.6	1553.7	1491.0
32°	1496.8	1600.0	1655.4	1727.6	1806.9	1802.6	1766.8	1685.7	1594.4	1514.1	1444.9
32.5°	1449.3	1557.8	1615.3	1688.7	1760.9	1764.2	1718.5	1642.2	1557.1	1474.9	1399.9
33°	1403.8	1513.3	1576.9	1648.3	1712.4	1722.8	1668.7	1599.3	1519.4	1434.8	1352.9
33.5°	1358.3	1466.0	1539.0	1607.4	1664.6	1681.4	1619.6	1554.0	1479.3	1393.1	1307.9
34°	1313.8	1416.7	1501.9	1565.9	1617.0	1634.6	1573.3	1508.5	1438.8	1349.6	1261.9
34.5°	1269.0	1370.0	1462.2	1522.5	1570.8	1585.0	1526.8	1463.8	1396.9	1303.1	1217.9
35°	1223.8	1323.4	1420.0	1478.5	1525.5	1532.9	1480.5	1421.0	1352.4	1256.3	1172.4
35.5°	1180.8	1278.2	1375.5	1434.8	1480.3	1481.6	1432.0	1376.8	1305.9	1209.5	1129.2
36°	1133.8	1233.9	1328.0	1390.3	1434.5	1428.9	1384.4	1333.9	1259.9	1163.5	1084.2
36.5°	1086.8	1189.0	1277.9	1345.0	1387.5	1377.8	1335.1	1289.4	1214.9	1120.6	1040.0
37°	1041.5	1142.9	1230.4	1298.8	1341.5	1327.5	1288.3	1246.1	1171.2	1078.1	995.2
37.5°	997.3	1099.0	1185.1	1255.6	1296.2	1281.7	1243.9	1204.0	1129.0	1035.2	951.3
38°	954.8	1055.5	1141.2	1211.3	1251.7	1239.3	1202.7	1163.5	1084.5	991.7	908.6
38.5°	915.4	1011.3	1099.0	1168.6	1208.5	1198.9	1163.3	1120.1	1039.0	948.2	866.9
39°	872.7	966.3	1055.5	1124.9	1167.3	1160.2	1125.1	1076.3	993.0	905.0	826.2
39.5°	829.7	922.0	1011.0	1077.6	1126.4	1121.6	1086.2	1029.6	946.2	859.7	784.8
40°	786.5	878.6	965.0	1026.5	1084.2	1084.0	1046.8	984.3	900.7	814.2	742.6
40.5°	743.6	835.3	919.7	977.2	1041.3	1043.8	1005.9	938.8	853.6	767.7	699.6
41°	700.6	791.9	872.5	930.9	996.5	1003.1	964.5	895.6	809.7	722.0	656.4
41.5°	659.4	748.4	825.2	887.2	952.0	963.0	922.8	852.6	766.5	677.5	613.2
42°	619.3	705.2	777.6	843.7	906.5	921.5	879.8	810.9	723.2	633.0	569.7
42.5°	579.9	661.2	730.4	800.3	862.0	879.8	836.9	768.2	680.5	590.5	527.2
43°	538.7	617.0	683.1	757.0	819.1	836.1	792.6	725.8	637.3	549.6	486.1
43.5°	498.3	571.7	639.3	713.3	775.3	791.6	748.1	682.8	594.6	509.4	445.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	381.8	444.4	514.3	587.2	650.0	656.9	619.0	559.8	475.9	394.5	333.8
45.5°	345.2	406.0	476.9	546.8	607.6	612.4	576.0	520.4	438.5	359.5	301.0
46°	310.1	370.1	439.3	507.2	564.9	568.4	534.1	481.2	403.9	326.4	270.5
46.5°	276.6	335.3	402.9	467.2	524.2	525.5	493.2	442.1	368.9	294.6	245.8
47°	245.1	302.5	367.8	429.1	484.0	482.7	452.8	404.2	336.1	266.4	221.2
47.5°	215.8	272.0	334.0	391.5	445.1	442.3	412.6	367.3	303.8	242.3	196.3
48°	189.6	244.0	301.0	356.4	406.7	403.9	375.5	332.5	273.5	217.9	171.6
48.5°	167.3	217.9	270.2	323.4	368.1	366.6	339.1	299.0	246.6	193.7	152.5
49°	148.0	193.7	242.0	291.6	331.2	330.5	304.5	270.5	219.9	169.6	135.2
49.5°	131.2	171.6	215.3	260.3	295.9	296.7	275.6	242.0	192.9	149.2	119.7
50°	116.4	151.5	190.4	229.6	266.9	267.9	246.3	213.5	166.3	131.2	105.2
50.5°	102.4	132.7	167.5	200.8	237.9	239.5	217.4	185.1	144.4	113.9	90.8
51°	89.2	115.2	145.9	174.1	209.2	210.7	188.4	156.6	124.8	97.9	77.3
51.5°	77.5	100.2	126.6	150.2	180.2	182.3	159.1	135.2	107.3	82.6	65.3
52°	65.8	85.4	108.5	129.1	151.8	153.5	136.8	115.4	90.8	68.6	53.4
52.5°	54.1	73.2	92.0	109.6	130.2	130.4	116.2	97.9	75.2	56.2	43.2
53°	42.5	61.0	78.8	92.3	110.3	110.3	97.9	81.6	61.5	45.5	33.3
53.5°	30.8	48.6	65.8	78.8	92.8	92.3	81.1	66.9	50.1	35.1	23.1
54°	18.0	36.4	52.9	65.6	76.3	75.5	66.3	54.4	38.9	24.7	13.2
54.5°	9.2	23.4	39.9	52.1	61.5	61.5	53.6	44.2	27.5	14.2	3.6
55°	7.4	12.5	26.9	38.9	51.6	50.1	43.5	33.8	16.3	4.1	2.5
55.5°	5.6	10.4	14.7	25.4	41.9	38.9	33.3	23.6	5.3	2.8	2.0
56°	3.8	8.1	6.6	13.2	32.0	27.7	23.4	13.5	3.1	2.3	1.8
56.5°	2.3	6.1	5.1	5.6	22.4	16.3	13.2	3.3	2.5	2.0	1.5
57°	2.0	4.1	4.1	4.3	12.5	5.1	3.3	2.5	2.0	1.8	1.3
57.5°	1.8	2.0	3.1	3.6	2.8	2.8	2.5	2.3	1.8	1.5	1.3
58°	1.5	1.8	1.8	2.5	2.3	2.3	2.0	2.0	1.5	1.3	1.0
58.5°	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.5	1.3	1.0
59°	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.0	1.0
59.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.3	1.3	1.0	0.8
60°	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	0.8
60.5°	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.0	0.8	0.8
61°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8
61.5°	0.8	1.0	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8
62°	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.5
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5
63°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5
63.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5
64°	0.5	0.8	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	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	0.3



TEST NUMBER: P776203

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-4000K

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	0.3	0.3
68°	0.5	0.5	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	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: P776203

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776203

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2200.5	2200.5	2200.5	2200.5	2200.5	2200.5
0.5°	2200.0	2201.5	2200.0	2199.2	2199.7	2201.0
1°	2200.0	2201.2	2200.5	2199.4	2200.5	2201.0
1.5°	2199.7	2201.2	2200.7	2200.0	2200.5	2201.0
2°	2199.2	2201.0	2201.0	2200.7	2200.7	2200.5
2.5°	2198.2	2200.5	2201.5	2201.5	2201.0	2200.5
3°	2197.4	2200.0	2202.0	2202.8	2201.5	2199.7
3.5°	2196.4	2199.7	2202.8	2203.0	2201.5	2199.2
4°	2195.4	2199.4	2203.0	2204.0	2201.5	2198.4
4.5°	2194.1	2198.4	2203.5	2204.3	2201.2	2198.2
5°	2193.1	2197.9	2203.5	2204.3	2201.0	2197.7
5.5°	2192.3	2197.2	2203.0	2204.3	2200.0	2197.2
6°	2191.3	2196.4	2202.8	2203.8	2199.7	2196.4
6.5°	2189.5	2195.6	2202.8	2203.8	2199.2	2195.4
7°	2188.3	2195.1	2203.0	2204.0	2198.7	2194.4
7.5°	2186.5	2194.4	2204.0	2205.0	2198.4	2193.6
8°	2184.7	2194.1	2204.0	2205.5	2198.7	2193.3
8.5°	2182.7	2193.3	2203.8	2205.5	2198.4	2192.8
9°	2180.1	2192.6	2204.0	2205.5	2197.4	2192.3
9.5°	2178.1	2193.3	2206.1	2206.1	2196.6	2191.1
10°	2177.3	2194.9	2208.9	2208.6	2196.6	2189.5
10.5°	2177.8	2195.9	2211.4	2211.6	2197.9	2188.5
11°	2177.3	2195.4	2213.2	2213.7	2199.7	2188.5
11.5°	2175.8	2193.9	2213.9	2215.0	2200.0	2189.5
12°	2173.8	2192.1	2215.2	2215.5	2198.9	2190.0
12.5°	2173.5	2191.3	2218.3	2218.5	2197.9	2190.0
13°	2173.5	2190.8	2222.3	2222.3	2197.4	2189.8
13.5°	2173.0	2189.5	2225.9	2225.1	2197.4	2190.3
14°	2171.5	2186.5	2227.2	2226.9	2195.9	2191.3
14.5°	2168.7	2181.7	2227.9	2227.4	2192.8	2191.6
15°	2166.1	2176.8	2228.2	2227.9	2188.8	2190.8
15.5°	2163.1	2172.0	2228.2	2228.2	2185.2	2188.8
16°	2160.0	2166.7	2226.9	2227.9	2181.1	2186.7
16.5°	2157.0	2160.0	2222.8	2225.6	2177.1	2184.4
17°	2151.1	2150.9	2215.2	2220.0	2171.5	2181.9
17.5°	2142.8	2140.0	2204.0	2211.4	2163.9	2179.1
18°	2132.3	2128.3	2190.0	2200.0	2155.0	2175.0
18.5°	2120.1	2117.3	2174.5	2187.0	2144.8	2168.2
19°	2107.9	2105.9	2157.0	2172.0	2134.6	2159.3
19.5°	2095.0	2094.2	2137.4	2155.2	2124.7	2149.4
20°	2080.7	2081.7	2115.8	2135.6	2114.5	2138.7
20.5°	2066.2	2069.3	2092.2	2114.5	2103.9	2127.0
21°	2050.2	2055.3	2066.2	2090.4	2092.9	2114.3

TEST NUMBER: P776203

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2001.7	2003.4	1983.4	2010.8	2054.3	2073.1
23°	1984.1	1980.3	1952.9	1981.3	2038.0	2057.8
23.5°	1966.1	1954.4	1922.6	1950.8	2019.7	2042.1
24°	1947.3	1925.4	1891.1	1919.8	1997.6	2026.1
24.5°	1929.0	1894.9	1858.8	1887.8	1972.2	2009.3
25°	1905.3	1861.6	1825.2	1855.5	1943.2	1991.5
25.5°	1881.7	1827.5	1793.7	1823.0	1912.4	1972.4
26°	1858.3	1793.2	1761.9	1789.1	1879.6	1952.4
26.5°	1834.4	1758.4	1726.9	1755.6	1845.8	1929.5
27°	1801.1	1722.5	1692.5	1721.3	1810.8	1904.3
27.5°	1765.0	1687.2	1658.5	1685.9	1775.4	1874.6
28°	1723.6	1652.4	1623.1	1649.8	1739.8	1842.3
28.5°	1682.4	1617.6	1586.5	1615.0	1704.2	1806.9
29°	1640.4	1581.2	1548.9	1579.7	1667.9	1768.8
29.5°	1598.7	1544.8	1511.5	1543.1	1629.0	1727.9
30°	1554.8	1503.9	1475.4	1506.7	1589.6	1685.7
30.5°	1509.8	1461.7	1439.1	1468.8	1548.2	1639.2
31°	1464.5	1418.5	1402.5	1432.7	1505.4	1591.9
31.5°	1419.0	1375.3	1365.9	1396.4	1460.5	1543.3
32°	1373.8	1329.0	1328.0	1358.8	1415.5	1496.8
32.5°	1328.3	1285.0	1290.1	1318.6	1369.7	1449.3
33°	1282.8	1241.8	1249.2	1276.7	1323.9	1403.8
33.5°	1239.5	1199.4	1204.0	1233.4	1277.9	1358.3
34°	1195.8	1156.2	1156.4	1188.2	1236.7	1313.8
34.5°	1151.6	1111.9	1107.3	1141.4	1193.3	1269.0
35°	1105.6	1064.1	1061.8	1094.1	1149.3	1223.8
35.5°	1059.3	1017.1	1015.8	1047.4	1103.3	1180.8
36°	1014.6	970.6	972.1	1001.9	1057.8	1133.8
36.5°	970.6	923.3	926.6	957.4	1008.5	1086.8
37°	929.1	881.1	881.9	914.1	963.5	1041.5
37.5°	889.0	838.9	837.4	869.7	919.5	997.3
38°	847.3	796.4	792.6	825.2	877.5	954.8
38.5°	803.8	754.2	748.1	780.7	835.3	915.4
39°	758.6	712.0	703.4	736.2	793.1	872.7
39.5°	715.9	669.3	661.0	691.7	750.9	829.7
40°	673.7	626.6	618.5	650.3	708.7	786.5
40.5°	634.5	587.2	576.0	608.8	666.0	743.6
41°	595.1	548.6	537.4	567.9	626.4	700.6
41.5°	556.7	510.0	497.0	527.7	585.5	659.4
42°	516.6	472.8	461.1	489.1	546.6	619.3
42.5°	477.4	436.5	425.6	451.7	507.9	579.9
43°	438.8	400.4	392.2	416.4	471.1	538.7
43.5°	401.7	364.8	360.5	382.8	433.7	498.3



TEST NUMBER: P776203

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	298.4	271.0	274.8	291.8	326.4	381.8
45.5°	270.5	243.3	249.6	265.4	294.4	345.2
46°	242.8	217.4	226.0	240.2	263.9	310.1
46.5°	215.1	193.7	203.1	216.6	234.6	276.6
47°	187.4	172.4	182.5	194.7	208.2	245.1
47.5°	159.6	152.8	162.7	173.4	184.3	215.8
48°	142.4	135.2	144.4	154.1	163.0	189.6
48.5°	127.4	119.7	127.1	136.0	144.1	167.3
49°	113.9	105.8	110.6	119.2	127.6	148.0
49.5°	100.9	92.3	95.3	103.7	112.4	131.2
50°	88.7	79.8	82.6	88.5	98.6	116.4
50.5°	76.3	67.6	69.9	76.0	85.7	102.4
51°	64.3	55.2	56.9	63.6	74.2	89.2
51.5°	53.4	43.0	44.2	51.1	62.5	77.5
52°	43.2	30.5	31.5	38.9	51.1	65.8
52.5°	33.3	17.5	18.8	26.4	39.4	54.1
53°	23.4	8.4	9.2	14.5	26.2	42.5
53.5°	13.2	6.6	7.4	6.4	14.7	30.8
54°	3.6	4.8	5.3	5.3	6.9	18.0
54.5°	2.5	3.3	3.6	4.1	5.6	9.2
55°	2.0	1.8	1.8	3.1	4.3	7.4
55.5°	1.8	1.5	1.5	1.8	3.3	5.6
56°	1.5	1.3	1.5	1.8	2.0	3.8
56.5°	1.3	1.3	1.3	1.5	1.8	2.3
57°	1.3	1.0	1.3	1.3	1.5	2.0
57.5°	1.0	1.0	1.0	1.3	1.5	1.8
58°	1.0	1.0	1.0	1.3	1.3	1.5
58.5°	1.0	0.8	1.0	1.0	1.3	1.5
59°	0.8	0.8	0.8	1.0	1.3	1.3
59.5°	0.8	0.8	0.8	1.0	1.0	1.3
60°	0.8	0.8	0.8	0.8	1.0	1.0
60.5°	0.8	0.8	0.8	0.8	1.0	1.0
61°	0.8	0.5	0.8	0.8	0.8	1.0
61.5°	0.5	0.5	0.5	0.8	0.8	0.8
62°	0.5	0.5	0.5	0.8	0.8	0.8
62.5°	0.5	0.5	0.5	0.5	0.8	0.8
63°	0.5	0.5	0.5	0.5	0.8	0.8
63.5°	0.5	0.5	0.5	0.5	0.5	0.8
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	0.3	0.5	0.5	0.5	0.5
65.5°	0.3	0.3	0.3	0.5	0.5	0.5
66°	0.3	0.3	0.3	0.5	0.5	0.5



TEST NUMBER: P776203

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.3	0.3	0.3	0.5
68°	0.3	0.3	0.3	0.3	0.3	0.5
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.0	0.0	0.3	0.3	0.3	0.3
74°	0.0	0.0	0.0	0.3	0.3	0.3
74.5°	0.0	0.0	0.0	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.3	0.3
75.5°	0.0	0.0	0.0	0.0	0.0	0.3
76°	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
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: P776203

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

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



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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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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21.5°	2101.1	2178.3	2266.8	2290.2	2335.7	2332.4	2323.8	2272.2	2243.4	2158.5	2083.0
22°	2087.6	2167.9	2251.8	2281.6	2327.6	2329.1	2311.6	2263.0	2226.1	2139.5	2069.0



44°	458.3	527.7	596.1	669.6	733.7	747.1	704.4	640.9	553.9	469.8	406.5
44.5°	419.7	484.8	554.7	627.4	692.2	702.1	661.0	598.9	514.3	430.9	369.1



66.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
67°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3



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	2039.8	2040.3	2064.7	2081.0	2101.1
22°	2017.9	2022.8	2011.8	2038.3	2068.3	2087.6



44°	366.6	331.5	330.2	351.1	396.1	458.3
44.5°	332.3	300.7	301.8	320.6	360.7	419.7

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66.5°	0.3	0.3	0.3	0.5	0.5	0.5
67°	0.3	0.3	0.3	0.3	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)