

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **LSF120-XX-PC-50W-7040**

Issue Date: 10/4/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-09-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/4/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LSF120-XX-PC-50W-7040  
Description: Flood light with selectable wattage and CCT  
Light Source: (1) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

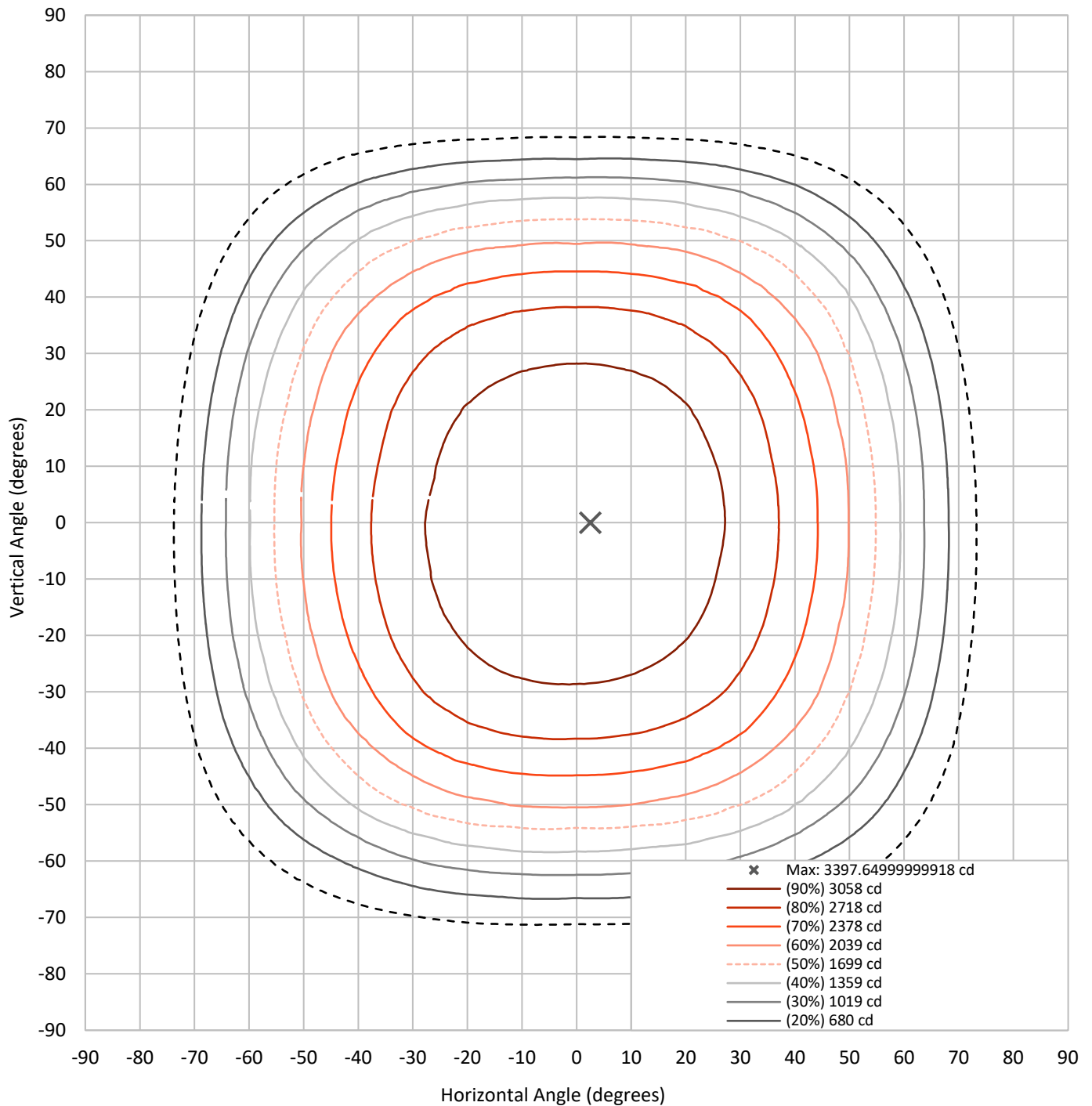
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9023.8 lumens	Max Intensity:	3397.6 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 0°V
Efficacy:	180.5 lumens/watt		
Luminous Opening:	Rectangular (W 0.18m x L: 2.6m x H: 0m)		
Beam Angle (50%):	110.3°H x 108°V	Field Angle (10%):	147°H x 139.6°V
Beam Lumens:	7298.1 lumens	Field Lumens:	8873.9 lumens
Beam Efficiency:	80.9%	Field Efficiency:	98.3%
Input Watts (W):	50		
Input Voltage (V):	120		
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:	25 FT		



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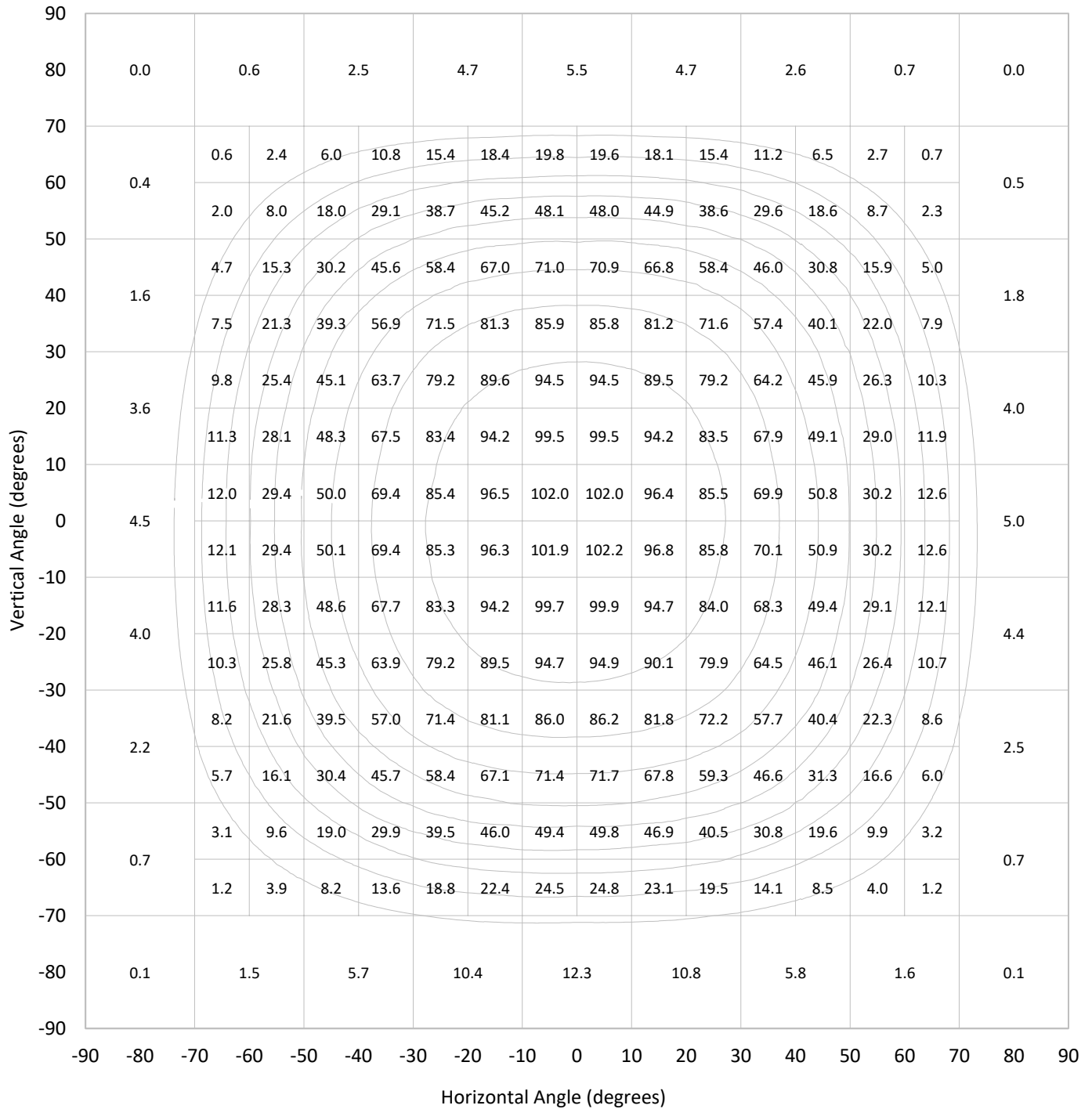
### Iso-Candela Plot





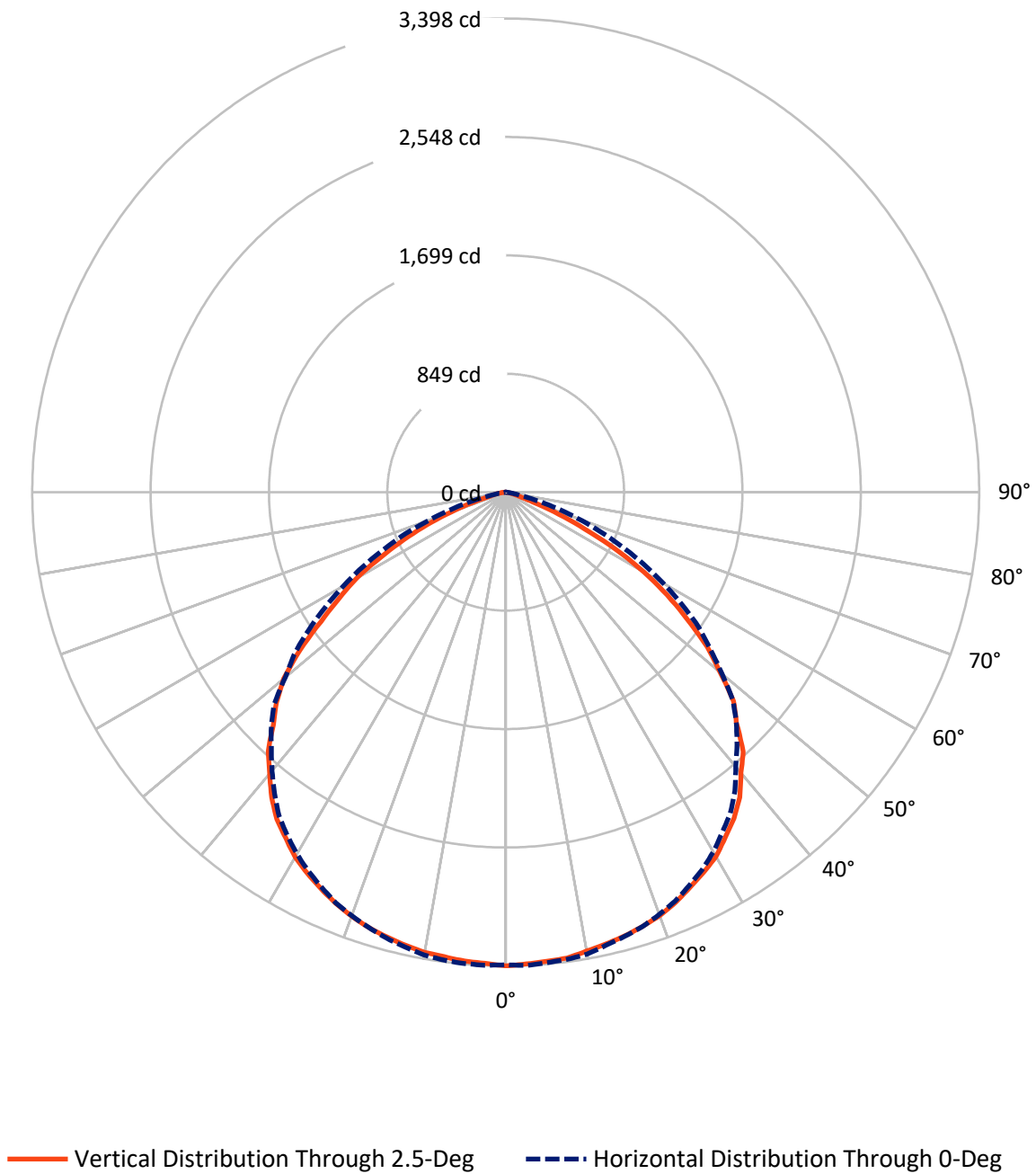
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### Lumen Table



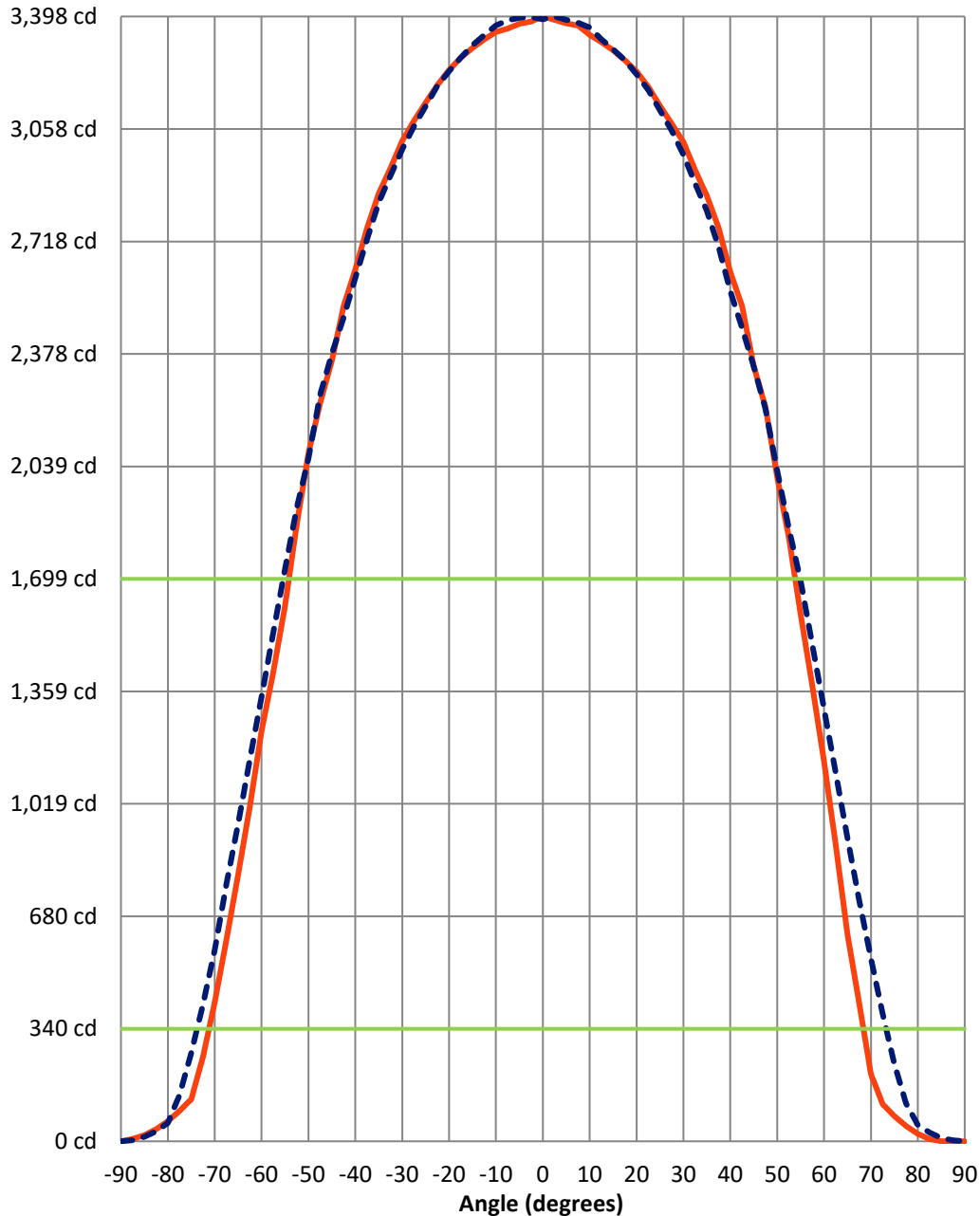
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 110.3°  
 V Angle: 108°  
 Lumens: 7298.1  
 Efficiency: 80.9%

**Field:**  
 H Angle: 147°  
 V Angle: 139.6°  
 Lumens: 8873.9  
 Efficiency: 98.3%

**Spill:**  
 Lumens: 149.9  
 Efficiency: 1.7%

— Vertical Distribution through 2.5-Deg  
 - - Horizontal Distribution through 0-Deg

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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	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	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.0	0.2	0.3	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.6
82.5°	0.0	0.3	0.5	0.6	0.8	0.8	0.8	1.1	1.4	1.5	1.7
80°	0.0	0.4	0.7	0.9	1.1	1.4	1.9	2.4	2.9	3.4	4.0
77.5°	0.0	0.5	0.9	1.2	1.6	2.4	3.2	3.9	4.6	5.4	6.6
75°	0.0	0.6	1.1	1.5	2.4	3.5	4.5	5.4	6.5	8.6	10.9
72.5°	0.0	0.7	1.3	2.1	3.3	4.9	5.8	7.3	10.2	13.7	17.8
70°	0.0	0.8	1.5	2.7	4.5	6.2	7.4	10.8	15.3	20.8	26.8
67.5°	0.0	0.9	1.7	3.3	5.8	7.6	10.6	15.4	21.9	29.2	36.8
65°	0.0	1.0	2.1	4.1	7.0	9.6	14.2	20.9	29.3	37.9	47.0
62.5°	0.0	1.1	2.5	5.2	8.3	12.1	18.3	27.4	36.9	46.9	59.5
60°	0.0	1.2	2.8	6.2	9.5	15.0	23.4	33.9	44.3	57.1	77.8
57.5°	0.0	1.3	3.2	7.3	11.5	18.3	28.8	40.2	52.9	70.7	107.7
55°	0.0	1.4	3.6	8.3	13.4	21.9	34.1	46.4	62.9	92.8	153.5
52.5°	0.0	1.5	4.0	9.3	15.4	26.1	39.2	54.3	74.3	126.8	207.7
50°	0.0	1.6	4.7	10.3	17.9	30.2	44.5	63.4	94.1	169.8	259.0
47.5°	0.0	1.7	5.4	11.4	20.3	34.2	50.0	74.9	122.5	216.3	316.2
45°	0.0	1.8	6.1	12.6	22.7	38.1	57.8	90.1	159.4	260.8	374.5
42.5°	0.0	1.9	6.7	13.9	25.6	42.0	65.7	108.3	199.3	308.2	431.0
40°	0.0	2.0	7.4	15.0	28.3	46.0	76.7	133.6	237.3	356.9	485.4
37.5°	0.0	2.1	8.0	16.1	31.0	49.8	88.0	162.1	274.1	403.3	536.8
35°	0.0	2.3	8.6	17.5	33.5	55.2	101.4	190.6	310.4	446.9	589.2
32.5°	0.0	2.4	9.1	18.9	36.0	61.4	115.6	218.5	344.8	487.5	642.5
30°	0.0	2.5	9.7	20.3	38.3	67.5	129.4	244.9	377.7	525.0	689.9
27.5°	0.0	2.6	10.2	21.5	40.5	74.1	147.8	270.8	409.5	559.6	733.8
25°	0.0	2.7	10.7	22.7	42.6	82.4	165.8	295.0	438.6	595.2	777.1
22.5°	0.0	2.8	11.1	23.8	44.7	90.5	182.4	316.8	464.4	629.2	816.3
20°	0.0	2.9	11.6	24.8	46.7	98.2	197.9	335.2	487.4	659.6	849.0
17.5°	0.0	3.0	12.0	25.9	48.5	105.5	212.3	351.2	507.7	686.4	877.3
15°	0.0	3.1	12.3	26.9	50.1	112.6	225.1	364.8	525.8	709.9	901.6
12.5°	0.0	3.1	12.7	27.7	51.5	119.3	236.3	377.4	541.2	730.0	921.9
10°	0.0	3.2	12.9	28.4	52.7	125.1	245.7	389.3	553.9	746.9	937.7
7.5°	0.0	3.2	13.2	29.0	53.7	130.2	253.5	398.9	563.9	760.0	949.1
5°	0.0	3.3	13.4	29.5	54.5	134.4	259.7	406.1	571.2	769.3	956.4
2.5°	0.0	3.3	13.6	29.8	55.1	137.8	264.2	410.9	575.8	775.0	959.7
0°	0.0	3.3	13.7	30.0	55.5	140.1	267.1	413.3	577.8	776.9	959.2
-2.5°	0.0	3.3	13.7	30.1	55.8	140.8	268.2	414.4	580.1	778.3	961.1
-5°	0.0	3.3	13.7	30.0	55.8	140.4	267.7	413.2	579.7	776.0	959.3
-7.5°	0.0	3.3	13.6	29.8	55.6	139.1	265.6	409.6	576.5	770.1	953.9
-10°	0.0	3.3	13.5	29.5	55.2	136.8	261.8	403.7	570.4	760.7	944.9
-12.5°	0.0	3.3	13.4	29.0	54.4	133.5	256.4	395.4	561.4	747.8	932.3
-15°	0.0	3.2	13.2	28.5	53.4	129.3	249.4	386.9	549.5	732.4	916.0
-17.5°	0.0	3.2	12.9	27.8	52.1	124.2	240.8	377.9	534.5	714.1	896.2
-20°	0.0	3.1	12.6	27.0	50.4	118.1	230.6	366.9	518.0	693.2	872.9

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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.1	12.3	26.2	48.5	111.2	218.7	354.0	499.0	668.6	846.0
-25°	0.0	3.0	11.9	25.3	46.2	103.3	205.1	337.6	477.4	640.5	812.4
-27.5°	0.0	2.9	11.5	24.3	44.3	94.5	189.8	318.5	452.5	609.8	775.4
-30°	0.0	2.8	11.1	23.3	42.4	86.5	173.6	298.0	425.0	576.8	740.5
-32.5°	0.0	2.7	10.6	22.1	40.4	78.2	160.8	276.8	398.4	541.5	702.8
-35°	0.0	2.5	10.1	20.8	38.2	69.0	147.1	254.1	372.7	505.7	657.9
-37.5°	0.0	2.4	9.5	19.6	35.9	60.8	132.4	229.2	344.6	467.0	605.5
-40°	0.0	2.3	8.9	18.6	33.6	55.7	116.8	202.0	314.9	425.9	551.9
-42.5°	0.0	2.2	8.3	17.5	31.2	50.1	100.3	176.6	283.4	385.3	499.3
-45°	0.0	2.1	7.6	16.3	28.6	45.4	84.9	156.2	249.9	343.6	444.1
-47.5°	0.0	2.0	6.9	15.1	26.3	41.7	68.3	134.8	212.3	303.1	388.9
-50°	0.0	1.9	6.2	14.0	23.9	37.9	58.6	112.5	177.4	260.2	336.3
-52.5°	0.0	1.8	5.5	12.8	21.5	34.3	49.6	89.9	149.4	214.0	290.0
-55°	0.0	1.7	5.0	11.7	19.4	30.4	44.2	67.5	121.1	172.3	242.5
-57.5°	0.0	1.6	4.5	10.5	17.4	26.9	39.1	55.4	92.6	140.6	187.9
-60°	0.0	1.4	4.0	9.3	15.3	23.5	34.2	46.3	66.8	108.7	150.4
-62.5°	0.0	1.3	3.6	8.0	13.6	20.3	29.3	39.9	52.2	76.8	115.6
-65°	0.0	1.2	3.0	6.7	11.9	17.4	24.9	33.8	43.7	57.3	80.9
-67.5°	0.0	1.0	2.6	5.6	10.2	14.8	20.8	28.0	36.2	45.5	58.0
-70°	0.0	0.9	2.3	4.7	8.4	12.7	16.9	22.7	29.3	36.7	44.9
-72.5°	0.0	0.8	2.0	3.8	6.6	10.5	14.2	18.0	23.1	28.9	35.2
-75°	0.0	0.7	1.7	2.9	5.2	8.2	11.5	14.5	17.6	22.0	26.7
-77.5°	0.0	0.6	1.3	2.4	3.8	6.1	8.8	11.3	13.8	16.3	19.4
-80°	0.0	0.5	1.0	1.8	2.8	4.1	6.2	8.2	10.2	12.2	14.2
-82.5°	0.0	0.4	0.8	1.3	2.0	2.8	3.6	5.0	6.5	8.0	9.5
-85°	0.0	0.2	0.5	0.8	1.2	1.7	2.2	2.8	3.4	4.0	4.8
-87.5°	0.0	0.1	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1
-90°	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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 CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.4	0.4	0.4	0.3
82.5°	2.0	2.3	2.6	2.8	2.9	3.0	3.0	3.0	3.4	3.9	4.3
80°	4.6	5.2	5.7	6.0	6.5	7.6	8.6	9.5	10.8	12.1	13.2
77.5°	7.7	9.1	11.0	13.0	15.3	17.3	19.7	21.7	24.3	27.2	29.9
75°	13.6	16.9	20.1	24.4	28.1	32.0	35.7	39.2	42.8	46.9	50.5
72.5°	22.3	27.9	33.3	38.5	43.5	48.9	55.2	60.7	65.4	71.4	77.1
70°	33.5	40.2	46.9	55.0	64.4	76.4	86.0	91.2	108.5	127.1	141.9
67.5°	44.7	53.2	66.6	85.1	104.4	124.4	149.3	176.8	207.9	230.4	253.4
65°	58.2	76.2	105.2	135.0	172.4	206.8	248.6	291.7	332.8	364.3	394.4
62.5°	80.3	116.2	164.7	211.3	256.5	309.7	360.9	410.0	457.5	522.5	569.5
60°	117.5	174.5	234.1	294.3	355.7	415.0	473.6	558.2	631.1	699.1	760.3
57.5°	170.9	238.7	311.5	385.9	453.8	531.0	633.3	712.6	800.7	879.3	940.3
55°	230.3	309.3	394.0	476.4	574.6	680.2	773.5	872.5	955.2	1047.1	1098.9
52.5°	290.9	384.5	475.3	587.2	707.1	810.1	918.5	1017.1	1100.5	1209.0	1314.9
50°	358.6	458.2	565.1	704.7	824.0	943.5	1053.9	1142.5	1277.1	1371.8	1465.7
47.5°	424.6	530.8	676.2	804.0	944.4	1067.3	1172.9	1311.1	1406.9	1531.0	1659.8
45°	488.8	623.1	762.0	908.3	1051.1	1173.4	1321.2	1428.5	1564.1	1684.4	1773.7
42.5°	550.7	703.3	851.2	1004.4	1143.3	1311.2	1430.9	1566.7	1694.3	1795.5	1875.8
40°	626.2	777.9	937.3	1095.3	1255.6	1399.0	1548.8	1684.4	1801.5	1889.0	2019.0
37.5°	691.5	851.7	1018.3	1166.6	1338.3	1494.9	1646.4	1791.6	1886.4	2026.3	2126.9
35°	751.2	921.2	1093.4	1263.5	1417.1	1575.6	1740.0	1867.9	2011.0	2125.6	2220.0
32.5°	811.3	987.3	1147.7	1328.9	1496.8	1659.2	1806.8	1954.2	2109.2	2208.3	2298.8
30°	865.4	1050.3	1219.4	1390.8	1555.1	1729.1	1866.5	2041.2	2172.2	2269.8	2364.7
27.5°	915.5	1100.5	1278.2	1452.2	1622.6	1776.7	1946.0	2093.1	2226.6	2320.5	2428.8
25°	962.1	1138.3	1328.5	1502.1	1677.8	1828.8	2003.4	2150.5	2267.3	2378.5	2486.1
22.5°	1003.5	1184.5	1369.9	1535.8	1715.9	1886.2	2040.1	2200.7	2308.4	2418.6	2533.0
20°	1039.7	1224.8	1410.5	1588.8	1744.9	1933.4	2081.2	2236.4	2348.8	2459.0	2566.6
17.5°	1069.2	1260.5	1449.6	1628.9	1788.9	1962.4	2129.0	2265.9	2377.4	2488.5	2601.6
15°	1093.2	1292.2	1477.5	1658.2	1826.0	1991.4	2168.5	2292.2	2400.8	2509.1	2640.8
12.5°	1114.5	1314.2	1498.1	1684.1	1856.7	2015.3	2198.5	2318.3	2425.8	2533.5	2655.1
10°	1132.4	1328.9	1515.2	1701.5	1881.2	2040.0	2220.0	2340.0	2447.7	2564.4	2674.5
7.5°	1144.6	1338.9	1529.2	1714.9	1898.0	2057.9	2238.0	2356.7	2464.6	2586.8	2693.7
5°	1152.0	1344.4	1537.2	1724.1	1908.5	2066.9	2248.5	2369.0	2477.5	2601.4	2709.8
2.5°	1155.0	1345.7	1539.6	1728.8	1913.7	2068.2	2254.3	2376.7	2485.5	2608.3	2720.2
0°	1153.8	1343.0	1536.9	1728.6	1912.8	2063.2	2255.2	2379.3	2488.2	2608.0	2724.7
-2.5°	1156.6	1347.2	1540.1	1729.7	1915.2	2069.3	2256.8	2379.2	2489.0	2611.2	2724.6
-5°	1155.1	1347.0	1538.2	1726.0	1911.7	2069.2	2253.6	2374.0	2484.0	2606.8	2718.8
-7.5°	1148.9	1342.0	1530.5	1717.6	1903.2	2061.5	2246.0	2363.6	2473.5	2594.1	2707.7
-10°	1137.6	1331.6	1517.0	1704.9	1887.5	2045.1	2230.3	2348.2	2459.0	2572.9	2693.9
-12.5°	1121.6	1315.4	1501.6	1688.0	1862.1	2022.0	2210.5	2328.9	2439.1	2550.5	2676.2
-15°	1103.0	1293.1	1483.5	1662.8	1829.0	1999.4	2180.5	2306.4	2415.4	2529.2	2652.5
-17.5°	1082.3	1267.8	1458.5	1634.3	1794.3	1972.3	2137.8	2282.0	2388.7	2504.6	2615.1
-20°	1054.1	1241.0	1422.3	1593.9	1753.0	1946.3	2089.9	2251.6	2355.1	2466.2	2583.8



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 CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1017.5	1200.1	1380.6	1539.6	1724.2	1894.4	2049.5	2211.4	2321.5	2425.6	2549.5
-25°	979.6	1152.4	1329.8	1511.0	1685.4	1836.0	2013.2	2158.3	2281.6	2376.1	2485.4
-27.5°	942.7	1120.9	1289.9	1465.4	1626.6	1787.7	1954.9	2101.6	2234.3	2332.2	2429.6
-30°	902.1	1070.8	1238.9	1403.3	1558.0	1741.7	1874.9	2050.2	2179.8	2279.9	2371.3
-32.5°	856.7	1006.2	1163.7	1334.5	1508.8	1661.8	1820.3	1961.5	2117.6	2214.5	2311.8
-35°	803.6	952.7	1111.2	1282.0	1430.9	1577.2	1752.4	1879.6	2019.2	2131.8	2227.7
-37.5°	748.2	895.8	1037.2	1183.5	1348.3	1507.4	1645.2	1812.3	1900.1	2037.7	2131.2
-40°	686.5	833.5	968.4	1109.3	1272.3	1412.1	1559.2	1688.1	1821.4	1906.2	2033.3
-42.5°	623.4	760.9	899.6	1025.4	1158.7	1325.7	1450.0	1580.6	1703.0	1816.5	1896.6
-45°	560.0	678.2	825.7	947.5	1067.1	1194.1	1338.0	1460.6	1585.6	1697.5	1796.7
-47.5°	496.0	605.6	724.8	866.3	978.8	1080.4	1203.7	1330.9	1447.9	1567.0	1677.7
-50°	429.1	533.5	633.6	764.2	885.6	976.0	1069.1	1186.3	1303.7	1408.3	1521.0
-52.5°	361.9	457.5	555.0	644.8	772.9	867.3	951.8	1038.2	1143.2	1251.7	1336.3
-55°	305.1	378.5	469.9	559.2	636.2	742.1	830.7	907.4	986.0	1067.4	1171.9
-57.5°	254.1	307.4	380.3	464.4	537.7	609.9	688.5	775.4	841.5	911.5	984.2
-60°	196.7	253.2	298.4	363.9	437.2	499.3	564.9	627.3	696.8	759.2	822.1
-62.5°	151.4	192.1	241.7	279.9	329.1	394.5	450.0	494.0	560.0	609.2	664.2
-65°	114.1	144.4	174.7	217.9	251.4	285.0	335.3	386.4	428.3	461.9	510.9
-67.5°	77.1	105.2	130.3	152.2	181.1	210.3	241.0	268.4	305.4	346.3	380.7
-70°	54.9	68.9	89.3	107.4	125.6	143.4	163.0	179.9	206.4	230.9	252.0
-72.5°	41.8	50.1	59.6	69.0	81.6	92.2	106.4	120.0	133.6	147.5	160.8
-75°	31.8	37.3	42.7	49.1	55.2	61.8	67.5	72.1	76.1	87.9	96.3
-77.5°	23.0	26.9	30.9	34.9	39.2	43.3	47.7	51.8	55.6	59.5	63.2
-80°	16.2	18.3	21.0	23.7	26.4	29.3	32.2	35.0	37.7	40.3	42.7
-82.5°	11.1	12.6	14.0	15.5	16.9	18.2	19.7	21.5	23.1	24.6	26.0
-85°	5.9	6.9	7.8	8.8	9.7	10.6	11.5	12.4	13.2	13.9	14.5
-87.5°	2.4	2.7	3.0	3.3	3.6	3.8	4.1	4.4	4.6	4.8	5.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.5	0.7	0.9	1.0	0.9	0.9	0.7	0.5	0.2	0.2	0.2
82.5°	4.8	5.2	5.4	5.5	5.6	5.6	5.8	6.1	6.3	6.5	6.7
80°	14.4	15.6	16.5	17.5	18.5	19.6	20.5	21.0	21.3	21.8	22.2
77.5°	32.4	34.6	36.6	38.4	40.0	41.3	42.5	43.4	44.2	45.0	45.7
75°	54.0	57.3	60.3	63.2	65.8	67.9	69.7	71.2	72.2	73.6	74.8
72.5°	85.1	91.4	93.3	94.6	98.0	101.0	103.6	105.7	107.2	108.9	110.5
70°	149.3	148.3	150.3	166.7	182.3	187.3	183.9	175.6	178.5	189.7	200.8
67.5°	274.9	294.1	312.8	330.8	347.8	361.9	372.9	380.9	385.7	393.9	404.3
65°	428.6	463.1	486.2	504.2	538.0	562.5	580.5	592.9	600.7	611.9	624.2
62.5°	610.4	657.9	698.7	737.0	774.9	799.8	817.5	833.4	838.5	842.1	857.2
60°	814.9	867.2	905.7	939.3	976.2	1019.4	1052.4	1072.0	1095.2	1105.3	1113.2
57.5°	998.6	1042.9	1122.1	1171.6	1200.4	1236.8	1271.1	1311.1	1328.9	1332.4	1346.9
55°	1199.6	1262.7	1309.6	1370.4	1411.2	1428.6	1475.3	1515.9	1544.6	1558.1	1568.6
52.5°	1363.5	1447.2	1508.5	1553.7	1616.6	1670.4	1683.4	1708.7	1738.8	1770.8	1798.0
50°	1576.3	1633.0	1700.4	1746.0	1787.5	1853.2	1915.9	1933.5	1942.0	1946.4	1974.4
47.5°	1725.7	1782.4	1835.1	1931.1	2000.5	2040.1	2066.6	2107.4	2141.8	2169.3	2185.9
45°	1844.6	1930.3	2019.4	2078.1	2127.4	2167.5	2213.3	2259.4	2291.6	2301.7	2310.1
42.5°	1990.9	2075.9	2142.7	2202.4	2263.7	2337.5	2382.9	2396.5	2424.6	2466.8	2494.2
40°	2111.3	2194.5	2274.7	2343.3	2415.3	2447.0	2487.5	2532.3	2571.4	2583.5	2585.6
37.5°	2217.2	2321.7	2391.8	2462.7	2503.8	2555.3	2620.6	2641.5	2678.3	2708.8	2726.3
35°	2316.5	2408.5	2498.6	2540.9	2612.9	2662.2	2717.8	2747.5	2768.1	2802.6	2828.7
32.5°	2395.9	2488.5	2555.5	2640.3	2697.2	2752.4	2780.0	2822.4	2863.3	2886.9	2902.2
30°	2466.7	2550.2	2638.9	2710.1	2770.5	2803.8	2862.7	2910.2	2942.1	2959.0	2984.4
27.5°	2529.4	2618.7	2701.4	2771.2	2821.3	2880.9	2928.1	2961.8	2990.1	3021.3	3039.0
25°	2589.1	2677.1	2756.5	2816.6	2881.9	2931.6	2978.2	3018.6	3055.1	3077.4	3107.9
22.5°	2628.3	2728.8	2798.7	2869.1	2929.4	2985.1	3028.7	3072.1	3107.8	3138.6	3152.4
20°	2678.3	2764.1	2842.7	2913.7	2973.1	3025.2	3080.7	3114.7	3146.7	3179.7	3200.5
17.5°	2705.8	2796.5	2876.2	2952.4	3010.5	3063.3	3107.7	3150.1	3186.1	3215.5	3232.4
15°	2728.0	2824.3	2907.6	2975.4	3037.5	3090.7	3136.2	3178.1	3214.4	3239.9	3266.5
12.5°	2751.9	2843.1	2926.8	3000.4	3057.2	3111.3	3160.9	3200.5	3234.1	3268.9	3291.4
10°	2777.6	2857.5	2938.9	3013.6	3076.6	3132.6	3178.7	3218.3	3253.2	3287.0	3309.4
7.5°	2798.7	2883.5	2956.8	3024.3	3084.4	3148.6	3195.4	3235.7	3272.9	3303.9	3327.3
5°	2815.1	2900.7	2978.0	3042.1	3107.3	3165.5	3208.6	3247.8	3289.2	3316.4	3343.1
2.5°	2828.4	2911.2	2990.5	3057.2	3120.7	3178.2	3222.0	3262.9	3301.5	3329.6	3349.1
0°	2836.0	2916.7	2996.1	3065.5	3126.5	3187.9	3232.1	3273.3	3311.0	3341.5	3370.5
-2.5°	2833.1	2916.3	2995.0	3064.5	3127.0	3183.9	3231.5	3273.7	3310.3	3342.1	3366.6
-5°	2824.3	2910.5	2987.7	3055.5	3120.7	3176.0	3226.4	3269.8	3301.5	3330.1	3356.6
-7.5°	2812.0	2898.3	2973.1	3043.6	3105.6	3164.3	3214.0	3256.1	3287.3	3313.9	3337.4
-10°	2794.7	2878.5	2959.4	3033.7	3102.3	3151.6	3198.8	3241.6	3272.5	3297.7	3319.7
-12.5°	2769.8	2863.9	2947.6	3013.6	3077.6	3130.1	3184.2	3219.6	3255.3	3286.7	3305.5
-15°	2747.5	2845.2	2922.3	2990.1	3059.1	3117.9	3158.8	3200.3	3235.5	3258.1	3282.7
-17.5°	2725.1	2812.9	2894.0	2973.7	3023.8	3078.8	3131.8	3173.6	3203.5	3231.6	3248.5
-20°	2687.2	2781.4	2864.5	2928.1	2996.7	3044.7	3090.0	3137.9	3164.1	3194.3	3216.4

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2644.1	2744.5	2819.1	2896.6	2947.8	3009.2	3052.0	3086.8	3124.5	3143.5	3167.9
-25°	2603.8	2687.4	2775.3	2842.3	2908.5	2953.9	3007.5	3046.0	3076.5	3095.2	3117.6
-27.5°	2541.9	2636.5	2719.7	2792.8	2853.5	2906.1	2950.1	2986.6	3028.4	3049.8	3061.7
-30°	2475.1	2569.1	2658.4	2737.1	2791.2	2837.5	2888.3	2932.2	2959.5	2978.1	3000.6
-32.5°	2402.1	2503.5	2576.8	2660.3	2726.1	2767.9	2806.5	2851.7	2884.5	2903.1	2919.0
-35°	2330.0	2419.4	2519.0	2565.7	2630.7	2687.3	2738.6	2766.0	2790.8	2822.4	2844.0
-37.5°	2225.7	2334.3	2409.2	2481.0	2530.1	2580.9	2637.4	2668.2	2701.4	2722.6	2739.2
-40°	2114.6	2197.5	2294.5	2366.1	2424.0	2473.2	2512.7	2556.9	2587.4	2603.6	2613.9
-42.5°	2013.5	2082.8	2151.0	2226.9	2292.3	2362.9	2395.2	2420.3	2449.7	2488.1	2509.3
-45°	1868.8	1964.1	2036.6	2097.6	2151.0	2199.6	2246.3	2289.3	2319.3	2332.4	2343.9
-47.5°	1751.3	1813.2	1894.3	1972.4	2025.0	2072.6	2112.1	2145.4	2172.6	2194.4	2210.5
-50°	1615.0	1682.7	1733.9	1790.6	1872.6	1929.6	1951.6	1971.3	2002.6	2043.6	2062.2
-52.5°	1420.8	1487.3	1579.6	1642.7	1682.7	1708.2	1756.2	1802.2	1833.2	1837.4	1848.8
-55°	1237.7	1299.2	1357.8	1404.5	1464.8	1542.5	1568.2	1581.9	1583.0	1585.3	1620.2
-57.5°	1055.8	1132.9	1175.1	1215.7	1260.4	1301.3	1333.5	1354.5	1380.6	1403.7	1421.9
-60°	883.8	942.8	998.2	1050.4	1090.3	1107.7	1123.5	1160.6	1197.3	1218.3	1226.8
-62.5°	719.9	768.8	815.9	859.5	897.4	931.3	955.7	972.9	983.3	990.8	1001.3
-65°	552.6	593.7	637.9	679.9	708.1	733.3	750.9	762.3	772.7	793.3	809.4
-67.5°	411.6	440.8	467.9	487.0	513.9	540.4	561.2	576.6	586.8	596.9	607.9
-70°	277.0	302.4	324.9	345.9	362.9	379.5	394.7	407.5	414.6	420.2	424.2
-72.5°	176.2	189.9	200.9	212.8	222.9	232.9	241.6	248.2	252.7	256.4	258.9
-75°	104.7	114.0	122.6	130.0	134.7	136.9	136.8	134.8	131.0	130.9	131.3
-77.5°	66.8	70.4	73.9	76.8	79.4	81.6	83.6	85.3	87.1	89.0	90.5
-80°	45.1	47.4	49.6	51.4	53.1	54.7	56.1	57.2	58.1	58.9	59.6
-82.5°	27.5	28.9	30.2	31.3	32.2	33.0	33.7	34.5	35.0	35.6	36.0
-85°	15.2	15.7	16.3	16.7	17.1	17.4	17.7	17.9	18.1	18.3	18.4
-87.5°	5.4	5.7	6.0	6.2	6.4	6.6	6.8	6.9	7.0	7.1	7.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
82.5°	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.6	6.4	6.1	5.9
80°	22.4	22.5	22.4	22.2	22.4	22.4	22.3	22.0	21.6	21.1	20.7
77.5°	46.1	46.3	46.2	46.0	46.2	46.2	46.0	45.5	44.8	43.9	43.0
75°	75.6	76.0	76.0	75.6	75.9	75.8	75.3	74.4	73.2	71.7	70.6
72.5°	111.6	112.3	112.5	112.2	112.5	112.3	111.5	110.3	108.5	106.7	105.4
70°	206.3	206.8	203.3	196.5	203.3	207.3	208.1	205.4	198.7	191.9	188.6
67.5°	411.4	415.1	415.2	411.7	416.2	416.9	413.9	407.4	397.5	390.4	386.3
65°	629.8	629.4	623.4	612.4	624.7	631.8	633.1	627.8	615.3	601.8	592.1
62.5°	873.8	884.2	888.5	886.7	894.0	896.0	893.8	888.1	875.7	863.3	851.3
60°	1123.4	1133.3	1140.2	1141.4	1146.2	1144.5	1138.2	1129.3	1119.7	1103.5	1079.4
57.5°	1364.2	1372.6	1372.9	1367.2	1374.8	1376.1	1368.5	1351.7	1338.9	1333.7	1315.0
55°	1578.8	1586.6	1591.0	1590.7	1592.0	1588.5	1581.4	1571.6	1561.0	1551.8	1535.0
52.5°	1813.3	1819.0	1821.1	1817.3	1822.4	1821.6	1817.6	1807.0	1789.3	1764.4	1719.9
50°	1999.1	2007.4	2002.6	1988.1	2006.3	2014.5	2009.1	1986.7	1957.4	1946.7	1935.3
47.5°	2201.5	2211.4	2216.1	2215.8	2217.3	2213.9	2205.6	2190.7	2172.7	2145.9	2115.1
45°	2327.1	2337.3	2341.1	2339.0	2341.7	2338.5	2329.5	2314.3	2306.4	2299.3	2265.6
42.5°	2513.5	2519.9	2522.8	2521.1	2522.4	2518.6	2510.6	2494.4	2471.0	2427.8	2399.7
40°	2605.1	2617.2	2621.4	2619.5	2626.2	2625.3	2613.9	2591.1	2585.6	2572.9	2545.2
37.5°	2736.3	2752.4	2758.7	2757.5	2759.3	2753.8	2738.9	2730.1	2714.9	2691.1	2646.0
35°	2841.7	2849.8	2855.6	2857.7	2855.7	2849.9	2841.6	2830.1	2805.9	2771.3	2748.7
32.5°	2915.6	2925.3	2930.9	2930.2	2933.3	2931.9	2923.5	2901.6	2883.8	2863.7	2831.7
30°	3007.8	3008.7	3015.7	3022.0	3018.1	3010.0	3001.5	2984.1	2959.6	2940.7	2908.0
27.5°	3053.3	3065.4	3072.7	3072.5	3073.6	3069.0	3056.9	3041.9	3022.6	3008.9	2962.3
25°	3115.6	3122.6	3127.4	3127.5	3127.7	3123.2	3116.2	3109.5	3080.9	3061.6	3021.8
22.5°	3174.6	3184.5	3186.8	3185.4	3185.2	3178.8	3170.2	3152.4	3138.6	3111.6	3075.4
20°	3218.2	3227.9	3228.5	3229.6	3231.5	3231.1	3220.3	3202.2	3179.0	3146.4	3115.2
17.5°	3254.6	3263.6	3267.5	3267.8	3265.5	3262.3	3254.3	3238.3	3213.8	3183.9	3148.4
15°	3284.3	3289.7	3295.4	3297.9	3295.5	3288.5	3281.4	3267.5	3238.6	3208.3	3179.1
12.5°	3306.9	3317.0	3319.6	3319.7	3320.2	3318.0	3305.9	3288.0	3262.2	3234.2	3200.7
10°	3325.9	3335.7	3343.2	3341.7	3342.1	3338.2	3330.8	3307.3	3285.3	3258.5	3222.5
7.5°	3349.2	3356.9	3361.8	3361.0	3370.4	3359.5	3351.9	3334.3	3305.5	3278.1	3240.9
5°	3359.9	3374.5	3378.5	3377.7	3377.0	3372.2	3366.7	3349.7	3324.3	3291.9	3254.7
2.5°	3366.5	3376.6	3383.5	3383.4	3387.4	3383.1	3377.2	3354.4	3330.8	3297.4	3262.5
0°	3386.3	3393.5	3396.2	3389.4	3397.6	3387.6	3378.8	3364.3	3328.8	3298.6	3265.4
-2.5°	3382.7	3387.2	3391.8	3388.9	3382.6	3374.2	3365.3	3343.8	3321.7	3290.3	3258.5
-5°	3370.1	3378.3	3380.8	3374.2	3375.5	3364.2	3360.3	3335.1	3309.9	3279.3	3247.4
-7.5°	3358.4	3361.9	3364.5	3362.4	3361.1	3350.6	3347.4	3325.3	3295.3	3268.7	3233.8
-10°	3338.8	3348.8	3351.9	3357.4	3350.9	3340.4	3328.9	3313.2	3285.2	3256.1	3221.6
-12.5°	3325.6	3329.4	3332.7	3335.2	3328.4	3320.6	3312.2	3292.3	3268.9	3238.3	3205.3
-15°	3300.9	3305.3	3306.8	3303.3	3302.5	3298.8	3283.9	3264.0	3244.4	3213.2	3177.2
-17.5°	3264.4	3275.3	3278.0	3276.2	3273.3	3266.0	3255.2	3237.0	3213.0	3182.2	3150.0
-20°	3227.2	3236.5	3241.9	3238.6	3235.9	3227.6	3216.6	3200.6	3176.0	3146.1	3118.8

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	3183.8	3188.2	3192.8	3190.2	3190.2	3184.7	3175.1	3155.9	3132.3	3105.9	3068.0
-25°	3125.7	3138.4	3140.9	3135.3	3137.1	3131.5	3117.3	3104.5	3077.5	3052.2	3019.3
-27.5°	3075.0	3084.4	3085.8	3082.8	3082.4	3076.5	3063.6	3045.5	3025.8	3001.3	2964.1
-30°	3015.9	3021.7	3026.5	3027.4	3021.6	3011.8	3000.7	2982.7	2960.2	2936.8	2907.6
-32.5°	2934.8	2942.6	2943.9	2940.1	2939.5	2934.1	2922.4	2902.6	2885.3	2862.0	2825.6
-35°	2853.5	2861.1	2865.9	2867.0	2863.1	2856.2	2847.8	2833.8	2806.7	2771.3	2743.7
-37.5°	2750.1	2761.0	2763.1	2757.6	2758.2	2750.5	2733.6	2720.5	2702.9	2675.1	2636.4
-40°	2628.8	2636.6	2637.5	2632.4	2633.7	2628.8	2616.2	2595.7	2582.3	2563.5	2530.9
-42.5°	2522.3	2526.4	2526.9	2522.4	2522.6	2517.7	2508.6	2488.1	2461.3	2425.1	2399.3
-45°	2354.7	2361.4	2363.4	2360.1	2358.4	2351.3	2338.9	2321.7	2311.5	2296.3	2257.9
-47.5°	2223.0	2230.9	2233.4	2230.5	2230.0	2223.9	2212.1	2196.2	2177.0	2152.2	2121.0
-50°	2071.2	2079.0	2082.3	2077.9	2077.9	2069.6	2055.5	2038.4	2013.9	1976.1	1947.6
-52.5°	1861.2	1867.4	1867.6	1862.5	1862.6	1857.3	1845.9	1828.1	1811.4	1801.6	1761.4
-55°	1636.5	1637.0	1625.4	1605.7	1617.5	1622.0	1616.5	1597.8	1564.4	1560.1	1551.8
-57.5°	1427.2	1428.0	1424.1	1414.4	1417.5	1413.8	1403.3	1387.2	1367.1	1350.7	1333.4
-60°	1235.4	1242.0	1244.4	1240.6	1239.2	1231.3	1218.6	1202.9	1186.1	1162.2	1130.4
-62.5°	1009.3	1014.1	1015.1	1011.9	1011.6	1006.9	998.4	986.6	972.0	961.6	948.6
-65°	816.7	816.3	809.7	798.3	805.4	807.7	803.7	792.1	771.5	747.1	734.2
-67.5°	614.0	615.4	612.8	607.0	608.7	607.3	602.4	593.4	579.0	562.1	548.5
-70°	426.5	426.6	424.3	419.2	419.8	417.9	414.1	408.9	403.0	397.1	388.3
-72.5°	259.7	258.6	255.7	250.7	255.1	257.4	257.7	255.9	252.2	245.9	238.0
-75°	131.1	130.4	129.1	127.4	127.4	126.9	126.1	124.8	123.1	122.4	125.9
-77.5°	91.5	92.0	92.1	91.8	91.8	91.4	90.7	89.7	88.3	86.7	85.1
-80°	60.1	60.4	60.6	60.5	60.5	60.4	60.0	59.4	58.6	57.7	56.7
-82.5°	36.3	36.5	36.6	36.5	36.5	36.4	36.1	35.8	35.3	34.7	34.0
-85°	18.5	18.5	18.5	18.5	18.5	18.4	18.3	18.2	18.0	17.7	17.5
-87.5°	7.3	7.3	7.3	7.3	7.3	7.2	7.1	7.0	6.9	6.8	6.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.7	0.8	0.9	0.9	0.9	0.7	0.5	0.3	0.3	0.3	0.4
82.5°	5.6	5.4	5.3	5.3	5.2	5.1	5.0	4.8	4.5	4.2	3.8
80°	20.1	19.2	18.1	17.0	16.0	14.9	13.7	12.4	11.3	10.0	8.6
77.5°	41.9	40.6	39.1	37.4	35.5	33.6	31.4	29.0	26.2	23.1	20.5
75°	69.0	67.1	64.8	62.0	58.8	55.5	52.0	48.5	45.3	41.7	38.0
72.5°	103.2	99.9	96.3	92.8	90.8	87.9	81.1	73.1	67.6	62.1	57.1
70°	189.8	187.9	181.0	166.5	147.7	139.6	139.2	133.1	118.2	100.1	83.3
67.5°	376.5	363.3	346.9	326.6	303.7	280.8	258.6	229.9	196.0	183.0	161.4
65°	578.3	558.7	545.1	530.3	493.3	452.5	418.5	382.2	343.8	301.6	251.6
62.5°	832.6	806.8	772.8	727.9	683.5	642.9	607.1	552.0	494.1	444.7	386.4
60°	1060.2	1029.7	985.0	957.7	914.1	857.0	789.1	732.3	677.1	600.7	519.1
57.5°	1279.2	1241.9	1195.9	1166.2	1116.5	1037.1	990.4	923.1	844.6	769.1	683.5
55°	1494.4	1433.7	1404.9	1362.7	1301.0	1238.2	1179.7	1083.7	1017.9	929.6	835.6
52.5°	1680.1	1665.4	1631.8	1570.7	1495.6	1438.7	1350.1	1276.6	1182.2	1078.4	981.8
50°	1922.6	1867.3	1793.7	1736.1	1695.2	1635.2	1549.2	1456.7	1341.6	1244.9	1127.8
47.5°	2070.7	2039.1	1998.4	1938.4	1835.4	1768.6	1716.5	1630.7	1514.7	1376.4	1279.0
45°	2214.3	2165.2	2119.7	2064.5	2012.6	1932.2	1831.2	1758.1	1655.2	1537.4	1390.0
42.5°	2384.5	2348.6	2261.5	2198.2	2116.4	2054.5	1987.8	1862.7	1777.2	1654.0	1537.1
40°	2487.3	2447.9	2411.2	2342.9	2269.8	2165.2	2077.7	1996.3	1873.2	1781.2	1633.4
37.5°	2617.9	2566.9	2504.1	2452.8	2385.0	2309.3	2195.5	2089.1	1988.9	1867.2	1767.9
35°	2722.4	2658.6	2608.6	2543.4	2484.3	2394.8	2300.7	2194.9	2085.6	1955.9	1847.0
32.5°	2782.9	2744.9	2699.7	2629.0	2551.5	2471.9	2375.1	2277.9	2178.7	2063.4	1903.4
30°	2864.9	2817.5	2757.8	2708.7	2626.5	2538.4	2444.7	2342.9	2242.1	2136.8	1990.6
27.5°	2929.5	2879.7	2832.6	2757.9	2692.1	2608.4	2507.2	2401.1	2301.8	2189.6	2052.1
25°	2984.7	2936.1	2882.3	2818.4	2744.9	2660.9	2575.5	2450.9	2341.9	2238.9	2103.8
22.5°	3034.4	2989.1	2924.8	2868.3	2794.3	2716.1	2619.1	2510.6	2394.6	2285.5	2154.5
20°	3080.2	3024.2	2969.1	2903.9	2833.8	2755.3	2657.3	2551.1	2427.8	2317.9	2200.6
17.5°	3105.9	3060.4	3000.5	2935.4	2871.3	2781.3	2695.5	2581.3	2465.0	2352.3	2236.6
15°	3135.3	3083.1	3029.3	2973.0	2891.1	2815.0	2719.2	2615.4	2489.5	2376.2	2262.7
12.5°	3161.9	3110.9	3054.2	2986.5	2919.6	2838.8	2735.9	2640.5	2509.0	2397.8	2288.4
10°	3183.3	3132.0	3075.0	3014.2	2942.6	2848.3	2757.2	2661.9	2533.0	2421.1	2308.9
7.5°	3198.6	3152.8	3094.4	3029.2	2957.5	2868.1	2779.9	2679.5	2554.8	2439.0	2324.5
5°	3210.8	3167.0	3103.8	3042.5	2967.9	2883.2	2797.3	2692.1	2567.3	2450.5	2334.9
2.5°	3219.2	3172.9	3110.8	3050.3	2975.7	2891.7	2807.5	2699.5	2571.2	2456.3	2340.1
0°	3223.0	3175.4	3113.8	3052.5	2979.6	2892.8	2809.9	2701.6	2567.8	2457.0	2340.0
-2.5°	3215.1	3167.1	3107.4	3047.9	2973.7	2891.9	2807.1	2701.2	2573.7	2457.9	2341.8
-5°	3201.2	3154.5	3096.3	3038.6	2962.5	2884.0	2798.0	2695.2	2572.9	2453.6	2338.5
-7.5°	3191.8	3141.2	3083.1	3021.4	2945.9	2869.3	2784.8	2684.1	2564.8	2443.7	2330.2
-10°	3178.7	3128.6	3069.7	3006.4	2935.3	2848.5	2767.4	2670.1	2548.8	2429.3	2317.2
-12.5°	3161.7	3111.6	3053.1	2987.0	2922.3	2835.8	2743.7	2651.8	2522.6	2411.2	2297.8
-15°	3137.5	3087.6	3030.2	2967.0	2894.0	2817.6	2722.1	2625.8	2497.2	2388.6	2271.4
-17.5°	3111.1	3057.3	3002.7	2943.2	2864.7	2787.0	2699.0	2591.9	2473.4	2363.5	2244.4
-20°	3073.4	3019.9	2968.5	2902.8	2836.9	2751.4	2663.2	2553.5	2448.0	2331.3	2211.8



REPORT NUMBER: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3025.7	2982.3	2926.2	2868.1	2791.5	2716.3	2620.1	2516.3	2405.2	2292.5	2168.9
-25°	2980.2	2935.3	2886.2	2819.8	2748.0	2664.0	2572.6	2476.2	2357.5	2247.1	2112.6
-27.5°	2927.4	2886.7	2833.2	2766.8	2694.1	2608.7	2517.5	2412.2	2307.8	2198.8	2064.6
-30°	2864.1	2816.8	2768.4	2709.2	2630.4	2541.4	2454.2	2349.7	2249.2	2142.6	2010.8
-32.5°	2785.7	2747.4	2693.6	2633.8	2551.5	2477.6	2377.5	2281.6	2186.4	2080.9	1916.5
-35°	2708.1	2653.2	2605.6	2538.0	2487.7	2390.7	2300.9	2206.2	2098.8	1971.0	1843.5
-37.5°	2605.7	2553.7	2498.2	2452.6	2379.1	2305.2	2211.2	2103.0	1994.1	1863.6	1765.9
-40°	2482.5	2447.7	2402.6	2333.1	2267.3	2195.9	2089.7	1990.4	1868.5	1780.2	1647.3
-42.5°	2377.5	2325.2	2253.6	2204.9	2139.4	2056.0	1966.1	1858.0	1777.6	1664.6	1546.1
-45°	2211.6	2170.9	2128.5	2069.7	2005.6	1920.3	1830.6	1760.0	1664.4	1552.3	1399.7
-47.5°	2082.0	2042.9	1999.5	1937.8	1850.2	1774.7	1719.7	1645.9	1535.1	1387.3	1289.7
-50°	1928.4	1893.6	1823.9	1747.3	1701.7	1646.2	1576.6	1480.0	1356.1	1267.5	1133.7
-52.5°	1711.0	1676.4	1644.4	1592.2	1528.0	1461.4	1370.6	1299.9	1216.0	1096.3	1010.4
-55°	1521.6	1475.3	1427.8	1388.0	1330.7	1258.0	1209.5	1118.2	1035.0	954.8	876.1
-57.5°	1319.0	1286.2	1220.0	1179.0	1144.7	1091.1	1022.4	950.9	877.3	822.6	749.9
-60°	1099.6	1082.7	1064.1	1019.2	964.6	906.8	846.3	802.5	743.1	675.0	610.6
-62.5°	927.9	899.3	860.5	817.5	785.4	752.9	690.4	641.0	588.7	531.8	492.4
-65°	724.0	711.5	677.3	632.5	608.5	577.2	532.7	493.5	461.1	409.1	367.0
-67.5°	534.5	519.6	499.6	473.7	442.9	416.2	388.0	357.7	327.2	301.2	272.1
-70°	373.9	357.8	340.6	324.6	308.7	289.1	268.0	247.3	223.8	205.6	188.6
-72.5°	228.3	216.8	206.3	196.1	184.6	177.9	171.0	162.2	151.8	139.4	124.2
-75°	127.9	128.2	126.6	122.9	117.8	112.6	105.7	98.3	89.5	77.0	72.2
-77.5°	83.3	81.2	78.8	76.0	73.1	69.8	66.1	62.3	58.4	54.4	50.3
-80°	55.4	53.9	52.3	50.5	48.6	46.4	43.9	41.4	38.9	36.2	33.3
-82.5°	33.2	32.3	31.4	30.4	29.3	27.9	26.4	24.8	23.3	21.7	20.1
-85°	17.2	16.8	16.4	16.0	15.5	14.9	14.3	13.6	12.9	12.1	11.3
-87.5°	6.4	6.2	5.9	5.7	5.4	5.1	4.7	4.4	4.2	4.0	3.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P622895 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-50W-7040

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
82.5°	3.5	3.2	2.9	2.6	2.4	2.2	1.8	1.5	1.4	1.3	1.0
80°	8.2	7.5	6.6	5.9	5.3	4.8	4.2	3.6	3.0	2.5	2.1
77.5°	18.5	16.1	14.1	12.0	10.2	8.2	6.9	5.9	4.8	4.1	3.4
75°	34.3	30.5	26.5	22.8	18.6	15.6	12.5	9.9	7.8	5.8	4.7
72.5°	51.9	46.7	41.6	36.5	31.4	26.0	20.4	16.3	12.6	9.1	6.5
70°	78.5	69.6	58.7	51.3	44.4	37.9	31.3	24.5	18.8	14.0	9.7
67.5°	132.6	110.2	92.8	75.9	59.9	50.1	42.2	34.4	26.6	19.7	14.0
65°	214.4	185.0	148.9	117.9	92.2	67.9	54.2	44.3	35.3	26.4	18.9
62.5°	326.9	266.7	224.7	183.0	141.4	101.3	71.5	55.3	44.1	34.1	24.2
60°	452.4	384.1	315.1	253.9	204.1	150.0	102.2	69.7	53.6	41.6	30.7
57.5°	583.4	500.0	422.9	345.6	270.4	209.3	147.7	93.4	64.5	49.8	37.1
55°	746.5	629.5	529.9	443.3	355.8	272.9	201.3	133.1	81.2	58.5	43.4
52.5°	883.1	787.3	651.0	539.8	443.4	348.2	260.2	179.9	109.7	67.8	50.7
50°	1010.9	907.5	803.0	646.9	527.7	426.7	324.0	231.4	147.4	82.1	58.5
47.5°	1157.1	1018.9	908.7	774.8	619.7	499.6	393.4	286.4	188.7	105.7	67.4
45°	1290.7	1161.1	1001.6	873.5	722.0	576.1	460.1	344.5	233.8	138.1	78.8
42.5°	1386.3	1279.6	1114.2	959.9	819.1	658.2	519.1	402.9	281.4	173.8	92.5
40°	1519.0	1359.1	1220.4	1039.3	896.1	741.9	584.9	458.7	330.7	209.2	114.1
37.5°	1597.1	1456.1	1305.3	1141.8	969.9	814.9	652.1	506.9	377.1	245.1	139.2
35°	1697.4	1538.2	1365.3	1216.2	1035.4	877.3	716.5	555.5	420.5	281.5	164.9
32.5°	1782.0	1595.9	1458.1	1291.0	1115.6	942.3	773.6	606.5	461.0	317.7	190.3
30°	1830.6	1691.3	1516.4	1339.2	1170.3	992.2	821.9	655.1	496.7	351.3	214.7
27.5°	1886.9	1746.7	1561.3	1404.8	1227.9	1044.4	869.5	699.3	529.5	382.3	238.9
25°	1957.5	1783.7	1623.3	1460.3	1283.1	1099.0	916.9	738.0	563.7	410.6	261.2
22.5°	2001.6	1827.4	1680.0	1496.8	1317.2	1136.8	955.6	773.0	596.4	436.3	282.7
20°	2033.3	1878.4	1708.3	1530.0	1358.8	1171.0	988.0	804.7	625.5	459.1	303.3
17.5°	2062.7	1922.0	1739.4	1565.1	1398.6	1209.4	1018.8	833.3	650.5	479.3	321.6
15°	2111.0	1953.5	1765.9	1604.5	1428.4	1240.3	1047.5	858.3	671.6	497.3	337.6
12.5°	2146.2	1977.5	1797.2	1633.0	1453.9	1261.8	1070.6	878.6	688.9	512.9	351.3
10°	2174.0	1997.6	1819.1	1653.4	1476.6	1278.5	1088.1	894.3	703.2	526.0	362.6
7.5°	2195.7	2012.4	1835.2	1670.8	1489.4	1291.7	1100.1	905.6	714.4	536.6	371.6
5°	2206.3	2022.1	1847.5	1683.9	1496.6	1300.9	1108.1	912.7	722.0	544.6	378.3
2.5°	2211.8	2026.6	1852.9	1691.7	1499.8	1305.6	1112.1	915.9	726.3	549.8	382.8
0°	2211.4	2026.0	1850.6	1692.9	1499.0	1305.4	1111.7	915.4	727.1	552.3	385.0
-2.5°	2213.0	2028.9	1855.3	1693.3	1502.1	1307.6	1114.5	918.9	729.8	553.9	386.5
-5°	2208.6	2026.3	1852.8	1687.1	1500.9	1304.8	1112.8	919.0	729.0	552.8	385.8
-7.5°	2199.2	2018.0	1844.4	1675.6	1495.1	1297.4	1106.6	915.4	724.6	548.8	382.8
-10°	2180.9	2003.9	1831.6	1660.2	1483.4	1285.7	1095.9	908.2	716.5	542.0	377.7
-12.5°	2159.2	1984.1	1810.5	1642.1	1463.2	1270.2	1081.9	897.2	705.3	532.5	370.2
-15°	2128.6	1961.5	1778.5	1618.1	1440.6	1250.9	1064.3	882.5	692.2	520.4	360.6
-17.5°	2079.1	1934.3	1752.2	1585.2	1413.8	1226.5	1043.0	862.1	675.7	505.6	348.9
-20°	2045.0	1901.9	1721.3	1550.6	1376.1	1196.7	1016.4	837.6	655.8	489.6	335.1



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2013.2	1845.7	1693.6	1512.7	1335.6	1160.5	985.6	809.7	632.6	471.2	319.1
-25°	1974.7	1793.4	1642.2	1477.8	1300.2	1120.0	952.3	776.0	606.5	450.4	302.9
-27.5°	1907.4	1753.1	1582.3	1421.8	1251.5	1080.7	915.7	737.8	578.0	426.9	286.3
-30°	1834.4	1700.5	1530.2	1355.0	1195.3	1034.2	874.7	701.1	547.2	400.9	268.2
-32.5°	1782.6	1615.3	1466.9	1299.7	1129.0	982.4	827.6	661.2	514.5	372.9	247.5
-35°	1704.9	1549.1	1377.7	1234.7	1074.7	926.6	768.9	620.5	480.2	343.1	224.6
-37.5°	1611.5	1459.7	1307.3	1143.9	1010.8	867.0	711.6	574.5	443.2	314.2	201.7
-40°	1518.0	1361.5	1225.6	1079.0	942.0	799.2	654.1	525.0	403.3	287.0	179.8
-42.5°	1393.1	1278.3	1121.4	1001.3	869.4	726.4	596.2	475.9	360.4	255.7	158.8
-45°	1293.5	1146.9	1043.8	918.9	787.7	655.0	531.6	424.0	319.0	221.1	140.4
-47.5°	1154.8	1058.1	951.2	831.4	701.6	583.1	473.9	371.8	279.1	191.8	121.3
-50°	1044.5	947.6	852.6	733.8	619.4	506.5	413.1	320.9	236.3	162.7	101.4
-52.5°	921.5	839.8	739.8	637.6	525.9	441.0	354.2	270.1	196.0	137.1	80.8
-55°	806.5	715.3	628.1	532.5	453.6	373.2	293.4	224.0	160.2	110.9	60.6
-57.5°	671.9	595.4	514.9	449.2	378.1	305.8	239.6	176.4	130.8	84.6	51.3
-60°	546.5	483.0	422.1	366.2	303.7	242.7	186.8	141.8	101.1	61.2	43.6
-62.5°	431.6	380.8	336.9	281.1	236.2	185.5	144.6	109.3	71.5	49.3	37.2
-65°	331.1	293.3	244.5	217.1	171.1	139.9	109.5	76.8	53.9	41.1	31.2
-67.5°	233.9	211.6	182.1	150.7	128.2	102.8	74.6	55.1	42.9	33.7	25.6
-70°	168.0	145.3	125.7	106.6	88.5	67.7	52.3	42.4	34.3	27.0	20.6
-72.5°	108.3	92.5	81.2	68.5	57.7	47.6	39.5	32.8	26.6	21.1	17.0
-75°	66.8	60.7	53.2	46.9	40.6	35.1	29.6	24.6	20.2	16.6	13.3
-77.5°	46.0	41.5	37.3	33.0	29.0	25.0	21.2	17.9	15.1	12.5	9.7
-80°	30.5	27.6	24.6	21.9	19.3	16.6	14.7	12.7	10.6	8.4	6.1
-82.5°	18.2	16.8	15.4	14.0	12.6	11.2	9.6	8.0	6.4	5.1	3.9
-85°	10.5	9.5	8.6	7.7	6.8	5.8	4.8	3.9	3.2	2.7	2.2
-87.5°	3.4	3.2	2.9	2.7	2.4	2.2	1.9	1.6	1.4	1.2	1.0
-90°	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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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0
85°	0.3	0.3	0.3	0.2	0.2	0.1	0.0
82.5°	0.7	0.7	0.6	0.3	0.3	0.1	0.0
80°	1.7	1.2	1.0	0.7	0.3	0.2	0.0
77.5°	2.8	2.2	1.5	1.0	0.5	0.2	0.0
75°	3.8	3.1	2.2	1.4	0.8	0.3	0.0
72.5°	5.0	3.9	3.0	1.9	1.1	0.3	0.0
70°	6.4	4.9	3.7	2.5	1.3	0.4	0.0
67.5°	9.3	6.1	4.4	3.0	1.6	0.4	0.0
65°	12.7	8.0	5.3	3.6	1.9	0.5	0.0
62.5°	16.6	10.4	6.3	4.1	2.3	0.7	0.0
60°	21.0	13.2	7.4	4.6	2.6	0.8	0.0
57.5°	25.5	16.3	9.3	5.1	3.0	1.0	0.0
55°	30.8	19.6	11.2	6.0	3.3	1.1	0.0
52.5°	36.0	23.3	13.2	6.8	3.6	1.3	0.0
50°	41.1	26.9	15.5	7.7	4.0	1.4	0.0
47.5°	46.2	30.9	17.8	8.6	4.3	1.5	0.0
45°	52.8	34.8	20.0	9.9	4.6	1.7	0.0
42.5°	59.2	38.5	22.7	11.2	4.8	1.8	0.0
40°	67.5	42.1	25.3	12.4	5.1	1.9	0.0
37.5°	75.8	45.6	27.8	13.5	5.4	2.0	0.0
35°	86.1	50.0	30.2	14.8	5.8	2.1	0.0
32.5°	97.4	54.8	32.7	16.1	6.3	2.3	0.0
30°	108.5	59.5	34.9	17.3	6.7	2.4	0.0
27.5°	124.8	64.5	37.0	18.5	7.1	2.5	0.0
25°	140.8	70.4	39.0	19.5	7.5	2.6	0.0
22.5°	155.6	76.2	40.8	20.5	7.9	2.7	0.0
20°	169.5	81.6	42.5	21.5	8.2	2.7	0.0
17.5°	182.8	86.7	44.0	22.6	8.5	2.8	0.0
15°	194.7	92.1	45.3	23.5	8.8	2.9	0.0
12.5°	205.0	97.5	46.4	24.3	9.1	2.9	0.0
10°	213.7	102.3	47.4	25.0	9.3	3.0	0.0
7.5°	220.9	106.4	48.2	25.6	9.5	3.0	0.0
5°	226.6	109.8	48.8	26.0	9.6	3.1	0.0
2.5°	230.7	112.3	49.2	26.4	9.7	3.1	0.0
0°	233.3	114.1	49.5	26.5	9.8	3.1	0.0
-2.5°	234.8	115.2	49.8	26.6	9.9	3.1	0.0
-5°	234.6	115.4	49.9	26.6	9.9	3.1	0.0
-7.5°	232.9	114.7	49.8	26.4	9.9	3.1	0.0
-10°	229.6	113.2	49.4	26.1	9.8	3.1	0.0
-12.5°	224.6	110.7	48.9	25.6	9.8	3.0	0.0
-15°	218.0	107.4	48.1	25.0	9.6	3.0	0.0
-17.5°	209.7	103.7	47.1	24.3	9.5	3.0	0.0
-20°	199.8	99.6	45.9	23.5	9.3	2.9	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	189.2	94.6	44.4	22.7	9.0	2.8	0.0
-25°	177.9	88.9	42.7	21.9	8.7	2.8	0.0
-27.5°	165.2	82.2	41.0	21.0	8.4	2.7	0.0
-30°	151.9	75.9	39.2	20.1	8.0	2.6	0.0
-32.5°	140.7	69.1	37.2	19.0	7.6	2.5	0.0
-35°	128.6	61.4	35.1	17.9	7.2	2.4	0.0
-37.5°	116.0	54.5	32.9	16.7	6.7	2.3	0.0
-40°	103.1	50.6	30.5	15.7	6.4	2.1	0.0
-42.5°	89.2	46.3	28.1	14.7	6.1	2.0	0.0
-45°	75.7	42.3	25.5	13.5	5.8	1.9	0.0
-47.5°	61.1	38.7	23.3	12.4	5.4	1.8	0.0
-50°	53.3	35.0	21.1	11.3	5.0	1.6	0.0
-52.5°	46.5	31.3	18.8	10.3	4.6	1.5	0.0
-55°	41.3	27.5	16.9	9.2	4.2	1.3	0.0
-57.5°	36.2	24.1	15.1	8.0	3.8	1.2	0.0
-60°	31.4	20.9	13.2	7.1	3.5	1.0	0.0
-62.5°	26.6	18.1	11.5	6.3	3.1	0.9	0.0
-65°	22.4	15.7	9.8	5.3	2.7	0.7	0.0
-67.5°	18.9	13.3	8.2	4.5	2.3	0.6	0.0
-70°	15.9	10.9	6.7	3.8	1.9	0.5	0.0
-72.5°	12.9	8.6	5.1	3.1	1.6	0.5	0.0
-75°	9.9	6.4	4.1	2.5	1.2	0.4	0.0
-77.5°	6.8	4.6	3.1	1.9	0.9	0.3	0.0
-80°	4.6	3.3	2.2	1.4	0.6	0.3	0.0
-82.5°	2.9	2.2	1.5	0.8	0.5	0.2	0.0
-85°	1.7	1.2	0.8	0.6	0.3	0.1	0.0
-87.5°	0.8	0.6	0.4	0.3	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)