

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: P622894 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **LSF120-XX-PC-50W-7030**

Issue Date: 10/4/2022

Test Information

Test Method: LM-79-08
Report Number: P622894 (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-7030
Description: Flood light with selectable wattage and CCT
Light Source: (1) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

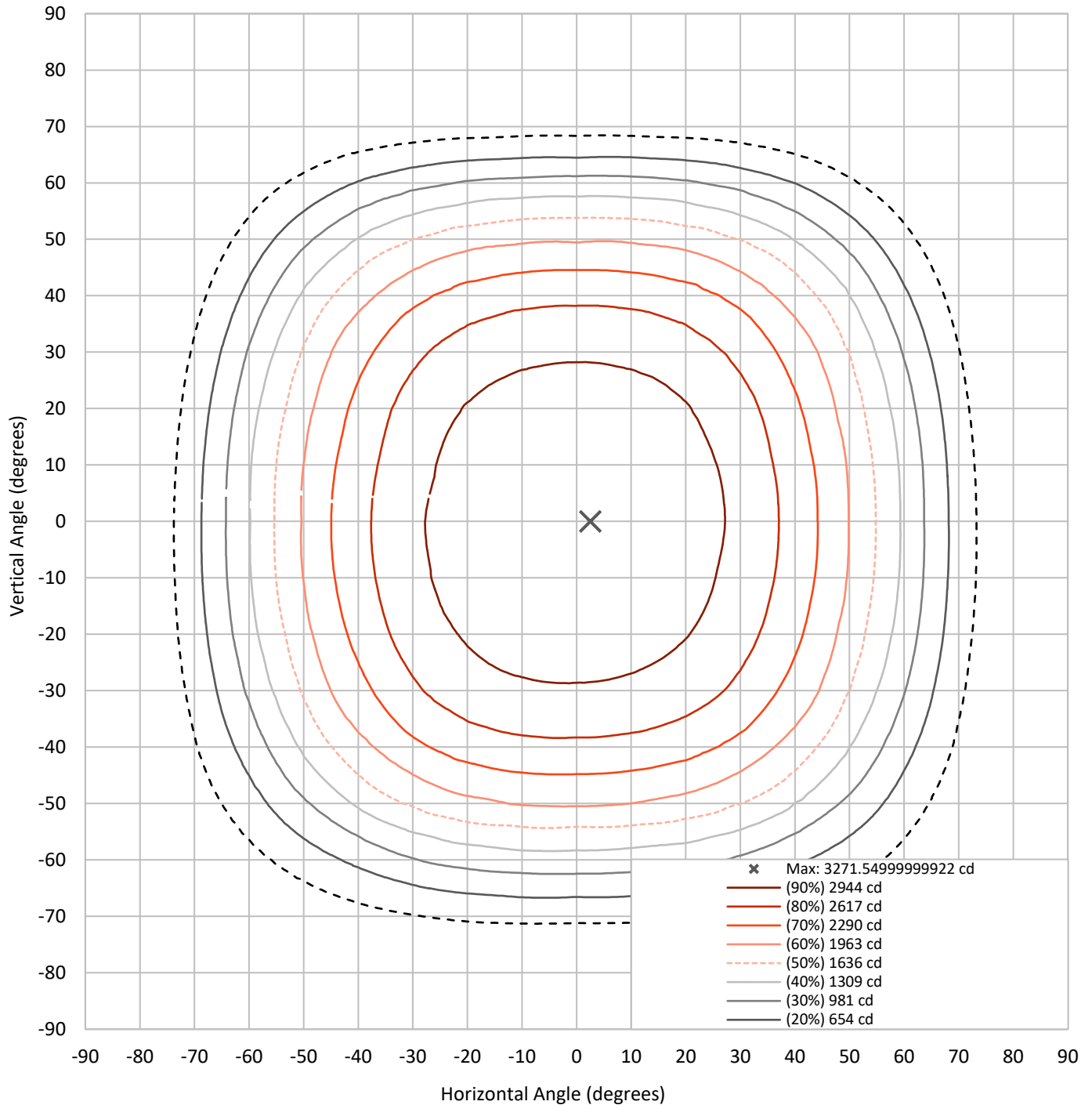
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8688.9 lumens	Max Intensity:	3271.5 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 0°V
Efficacy:	173.8 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:	7027.3 lumens	Field Lumens:	8544.5 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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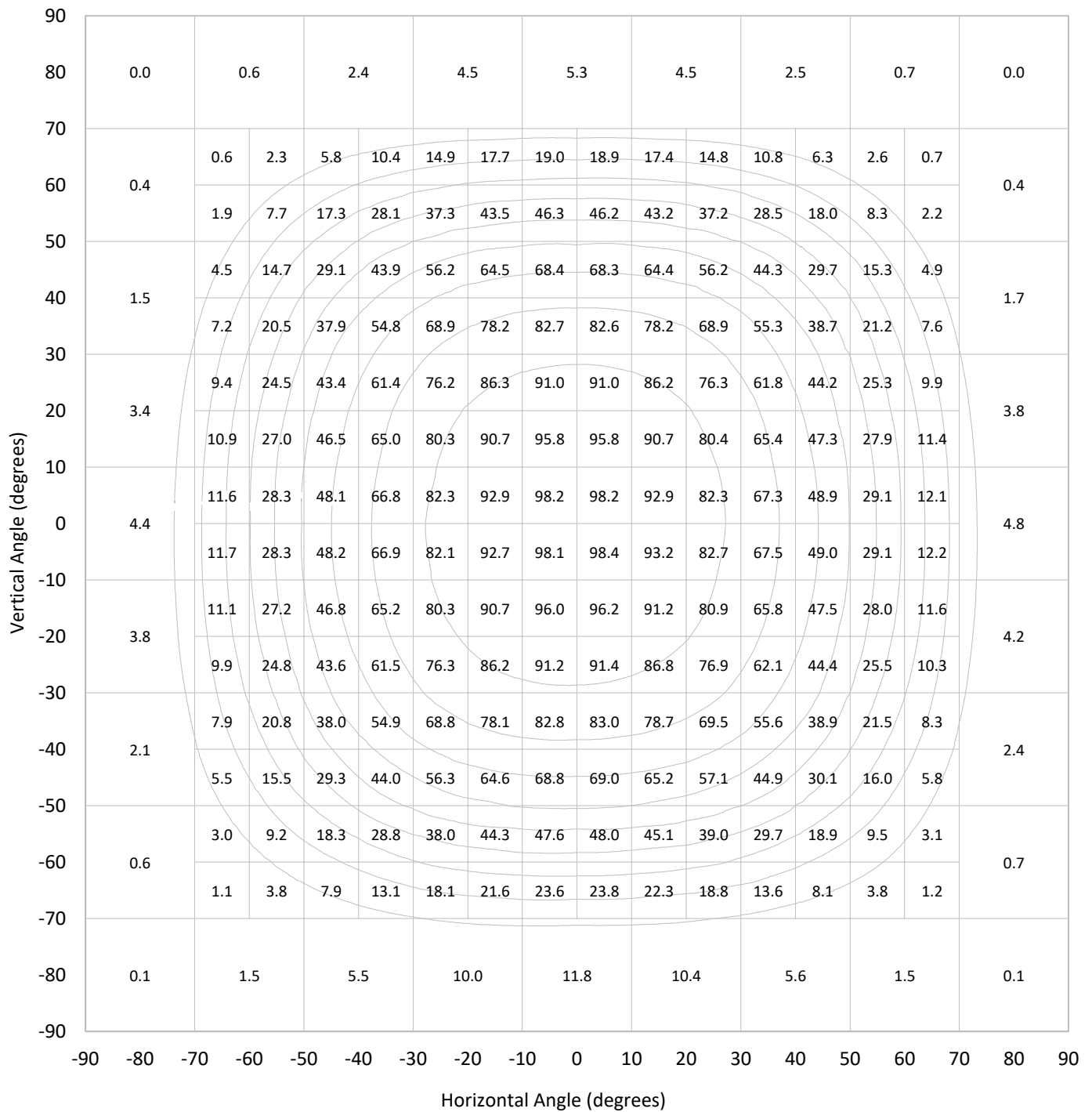
Iso-Candela Plot





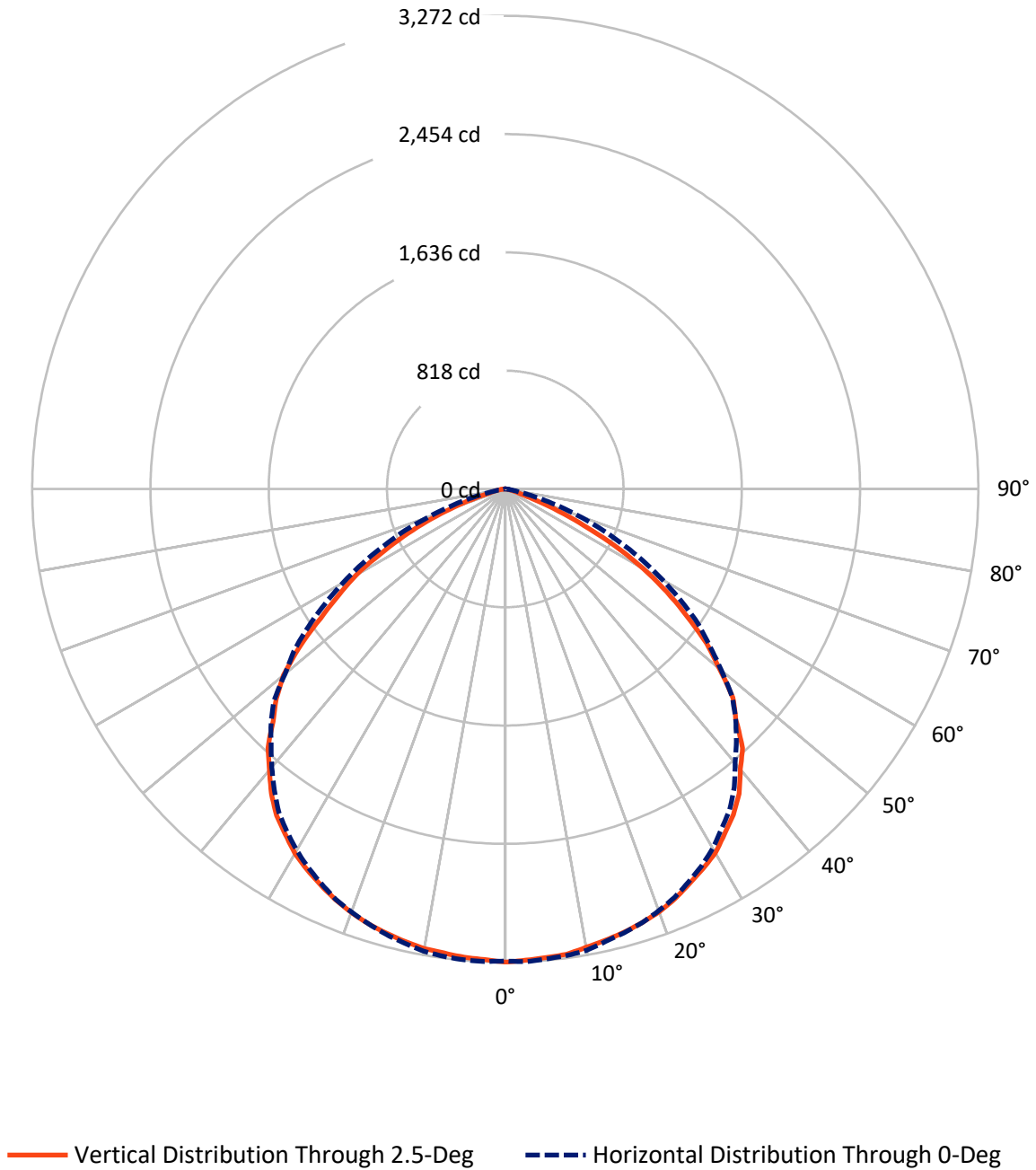
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Lumen Table



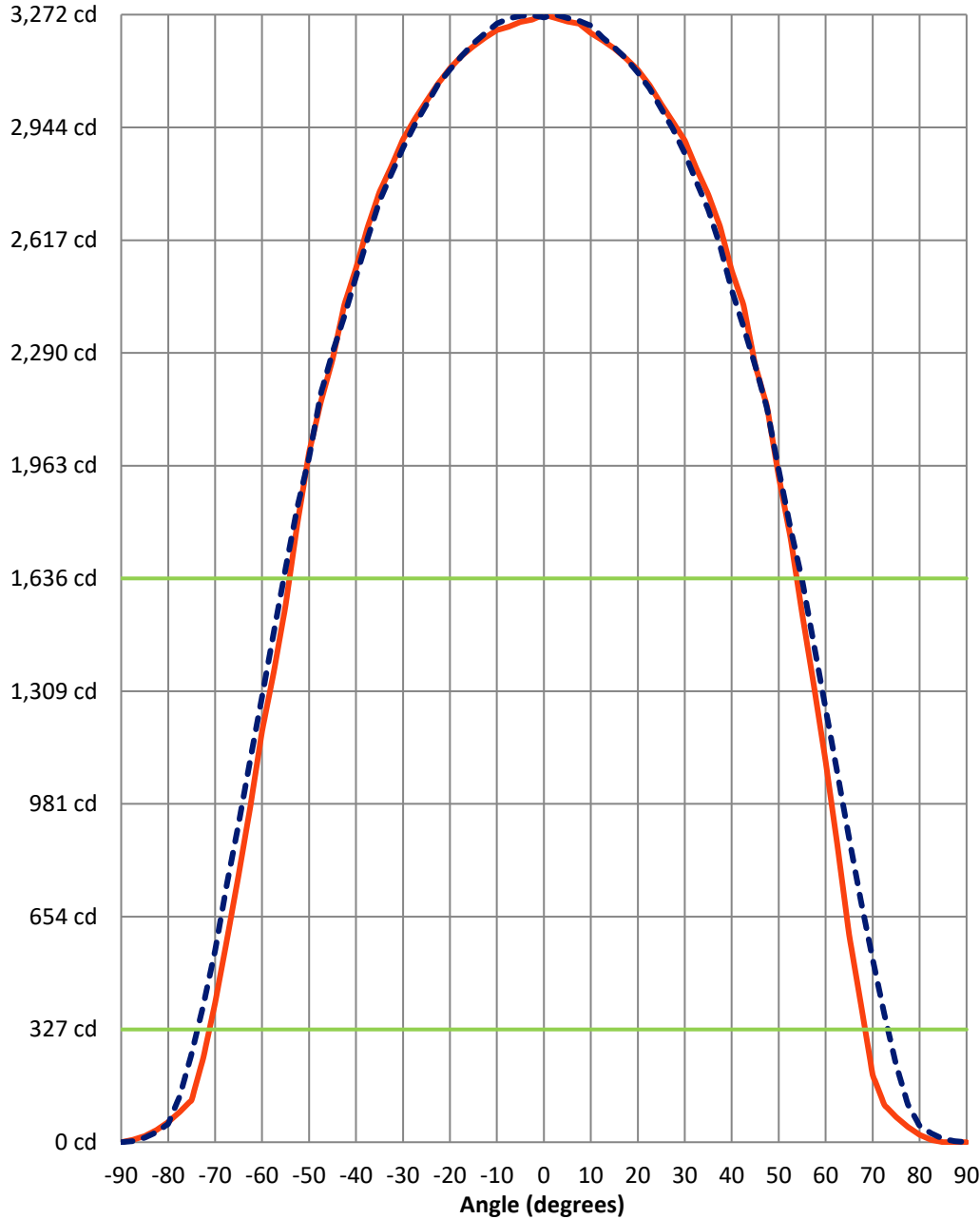
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 110.3°
 V Angle: 108°
 Lumens: 7027.3
 Efficiency: 80.9%

Field:
 H Angle: 147°
 V Angle: 139.6°
 Lumens: 8544.5
 Efficiency: 98.3%

Spill:
 Lumens: 144.3
 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	1.6
80°	0.0	0.4	0.7	0.9	1.1	1.3	1.9	2.3	2.8	3.3	3.9
77.5°	0.0	0.5	0.9	1.2	1.6	2.3	3.1	3.7	4.5	5.3	6.4
75°	0.0	0.6	1.1	1.5	2.4	3.4	4.3	5.2	6.3	8.4	10.5
72.5°	0.0	0.7	1.3	2.0	3.2	4.7	5.6	7.1	9.8	13.2	17.1
70°	0.0	0.8	1.5	2.6	4.4	6.0	7.2	10.5	14.7	20.0	25.8
67.5°	0.0	0.9	1.7	3.2	5.6	7.3	10.2	14.8	21.0	28.0	35.5
65°	0.0	1.0	2.0	4.0	6.8	9.2	13.7	20.1	28.2	36.5	45.3
62.5°	0.0	1.1	2.4	5.0	8.0	11.7	17.6	26.3	35.5	45.1	57.2
60°	0.0	1.2	2.8	6.0	9.2	14.5	22.5	32.6	42.7	54.9	74.9
57.5°	0.0	1.3	3.1	7.0	11.1	17.7	27.7	38.7	51.0	68.0	103.7
55°	0.0	1.4	3.5	8.0	12.9	21.1	32.8	44.7	60.6	89.3	147.7
52.5°	0.0	1.5	3.9	9.0	14.8	25.1	37.8	52.3	71.5	122.1	200.0
50°	0.0	1.6	4.6	9.9	17.2	29.0	42.8	61.1	90.6	163.5	249.4
47.5°	0.0	1.7	5.3	11.0	19.5	32.9	48.2	72.1	118.0	208.4	304.5
45°	0.0	1.8	5.9	12.2	21.8	36.7	55.7	86.7	153.5	251.1	360.6
42.5°	0.0	1.9	6.5	13.4	24.6	40.4	63.3	104.3	191.9	296.8	415.0
40°	0.0	2.0	7.1	14.5	27.3	44.3	73.9	128.6	228.6	343.7	467.4
37.5°	0.0	2.0	7.7	15.6	29.8	48.0	84.8	156.0	263.9	388.3	517.0
35°	0.0	2.2	8.3	16.9	32.2	53.2	97.6	183.5	298.9	430.3	567.4
32.5°	0.0	2.3	8.8	18.2	34.6	59.2	111.3	210.4	332.0	469.5	618.7
30°	0.0	2.4	9.3	19.5	36.9	65.0	124.6	235.8	363.7	505.5	664.3
27.5°	0.0	2.5	9.8	20.7	39.0	71.4	142.3	260.8	394.3	538.8	706.5
25°	0.0	2.6	10.3	21.8	41.0	79.4	159.6	284.1	422.3	573.1	748.2
22.5°	0.0	2.7	10.7	22.9	43.1	87.2	175.6	305.0	447.1	605.9	785.9
20°	0.0	2.8	11.2	23.9	44.9	94.6	190.5	322.8	469.3	635.1	817.5
17.5°	0.0	2.9	11.5	24.9	46.7	101.6	204.4	338.2	488.9	660.9	844.7
15°	0.0	3.0	11.9	25.8	48.2	108.4	216.8	351.3	506.3	683.6	868.1
12.5°	0.0	3.0	12.2	26.6	49.6	114.9	227.5	363.3	521.1	703.0	887.6
10°	0.0	3.1	12.5	27.3	50.7	120.5	236.6	374.8	533.3	719.2	902.8
7.5°	0.0	3.1	12.7	27.9	51.7	125.4	244.1	384.0	543.0	731.8	913.9
5°	0.0	3.2	12.9	28.3	52.5	129.5	250.0	391.0	550.1	740.8	920.9
2.5°	0.0	3.2	13.1	28.6	53.0	132.7	254.4	395.6	554.5	746.2	924.1
0°	0.0	3.2	13.2	28.8	53.4	134.9	257.2	397.9	556.4	748.1	923.6
-2.5°	0.0	3.2	13.2	28.9	53.7	135.5	258.3	399.0	558.6	749.4	925.4
-5°	0.0	3.2	13.2	28.8	53.7	135.2	257.8	397.9	558.2	747.2	923.7
-7.5°	0.0	3.2	13.1	28.7	53.6	133.9	255.7	394.4	555.1	741.6	918.5
-10°	0.0	3.2	13.0	28.4	53.1	131.7	252.1	388.7	549.3	732.5	909.8
-12.5°	0.0	3.2	12.9	27.9	52.4	128.6	246.9	380.7	540.6	720.1	897.7
-15°	0.0	3.1	12.7	27.4	51.4	124.6	240.2	372.5	529.1	705.2	882.1
-17.5°	0.0	3.1	12.4	26.7	50.1	119.6	231.9	363.9	514.7	687.6	863.0
-20°	0.0	3.0	12.2	25.9	48.6	113.8	222.0	353.3	498.8	667.5	840.5

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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	3.0	11.9	25.1	46.7	107.1	210.5	340.8	480.5	643.8	814.6
-25°	0.0	2.9	11.5	24.3	44.5	99.5	197.4	325.1	459.7	616.8	782.3
-27.5°	0.0	2.8	11.1	23.4	42.6	91.0	182.7	306.7	435.7	587.2	746.6
-30°	0.0	2.7	10.7	22.4	40.8	83.3	167.1	287.0	409.2	555.4	713.0
-32.5°	0.0	2.6	10.2	21.3	38.9	75.4	154.9	266.5	383.6	521.4	676.7
-35°	0.0	2.4	9.7	20.1	36.8	66.5	141.7	244.6	358.8	486.9	633.5
-37.5°	0.0	2.3	9.2	18.9	34.6	58.6	127.5	220.7	331.7	449.7	583.1
-40°	0.0	2.3	8.6	17.9	32.3	53.6	112.5	194.5	303.2	410.1	531.5
-42.5°	0.0	2.2	8.0	16.9	30.0	48.2	96.6	170.0	272.9	370.9	480.8
-45°	0.0	2.1	7.4	15.7	27.5	43.7	81.8	150.4	240.5	330.8	427.6
-47.5°	0.0	2.0	6.7	14.5	25.3	40.2	65.8	129.8	204.4	291.8	374.4
-50°	0.0	1.9	6.0	13.5	23.0	36.5	56.5	108.3	170.8	250.5	323.8
-52.5°	0.0	1.8	5.3	12.4	20.7	33.0	47.8	86.5	143.9	206.0	279.2
-55°	0.0	1.7	4.8	11.3	18.7	29.3	42.5	65.1	116.6	165.9	233.5
-57.5°	0.0	1.5	4.4	10.1	16.7	25.9	37.6	53.4	89.2	135.4	180.9
-60°	0.0	1.4	3.9	8.9	14.7	22.6	32.9	44.6	64.3	104.6	144.9
-62.5°	0.0	1.3	3.4	7.7	13.1	19.6	28.2	38.4	50.3	73.9	111.3
-65°	0.0	1.2	2.9	6.5	11.5	16.8	24.0	32.5	42.1	55.1	77.9
-67.5°	0.0	1.0	2.5	5.4	9.8	14.3	20.0	27.0	34.9	43.8	55.9
-70°	0.0	0.9	2.2	4.5	8.1	12.2	16.3	21.9	28.2	35.3	43.3
-72.5°	0.0	0.8	1.9	3.7	6.4	10.0	13.6	17.4	22.2	27.8	33.8
-75°	0.0	0.7	1.6	2.8	5.1	7.9	11.0	14.0	17.0	21.2	25.7
-77.5°	0.0	0.6	1.3	2.3	3.7	5.9	8.5	10.9	13.3	15.8	18.7
-80°	0.0	0.5	1.0	1.8	2.7	4.0	6.0	7.8	9.8	11.7	13.7
-82.5°	0.0	0.4	0.8	1.3	1.9	2.7	3.6	4.8	6.2	7.7	9.1
-85°	0.0	0.2	0.5	0.8	1.2	1.7	2.2	2.7	3.3	3.8	4.6
-87.5°	0.0	0.1	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.7	2.0
-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):

	-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	0.5	0.4	0.3	0.3	0.3
82.5°	1.9	2.3	2.5	2.7	2.8	2.9	2.9	2.9	3.3	3.7	4.1
80°	4.5	5.1	5.5	5.8	6.2	7.3	8.3	9.1	10.4	11.6	12.7
77.5°	7.4	8.7	10.6	12.5	14.7	16.6	19.0	21.0	23.4	26.2	28.8
75°	13.1	16.2	19.3	23.4	27.1	30.8	34.4	37.8	41.2	45.2	48.6
72.5°	21.4	26.8	32.1	37.1	41.9	47.1	53.1	58.4	63.0	68.8	74.2
70°	32.2	38.7	45.2	52.9	61.9	73.5	82.7	87.8	104.4	122.4	136.6
67.5°	43.1	51.2	64.1	82.0	100.5	119.8	143.7	170.2	200.1	221.8	244.0
65°	56.1	73.3	101.3	129.9	166.0	199.1	239.3	280.9	320.4	350.8	379.8
62.5°	77.3	111.9	158.6	203.4	247.0	298.2	347.5	394.8	440.5	503.1	548.4
60°	113.2	168.0	225.4	283.4	342.5	399.6	456.0	537.5	607.7	673.2	732.1
57.5°	164.6	229.8	299.9	371.7	436.9	511.3	609.9	686.1	771.0	846.7	905.4
55°	221.7	297.8	379.4	458.7	553.3	655.0	744.8	840.1	919.7	1008.2	1058.1
52.5°	280.1	370.3	457.7	565.4	680.8	780.1	884.4	979.3	1059.7	1164.1	1266.1
50°	345.3	441.2	544.1	678.5	793.5	908.5	1014.8	1100.0	1229.7	1320.9	1411.3
47.5°	408.9	511.1	651.1	774.2	909.3	1027.7	1129.4	1262.4	1354.7	1474.2	1598.3
45°	470.7	600.0	733.7	874.6	1012.1	1129.9	1272.2	1375.5	1506.0	1621.8	1707.8
42.5°	530.3	677.2	819.6	967.1	1100.8	1262.6	1377.8	1508.6	1631.4	1728.8	1806.1
40°	603.0	749.0	902.5	1054.6	1209.0	1347.1	1491.4	1621.9	1734.7	1818.9	1944.0
37.5°	665.8	820.1	980.4	1123.2	1288.6	1439.5	1585.3	1725.1	1816.4	1951.1	2047.9
35°	723.3	887.0	1052.8	1216.6	1364.5	1517.2	1675.4	1798.6	1936.3	2046.7	2137.6
32.5°	781.1	950.6	1105.1	1279.6	1441.2	1597.6	1739.8	1881.7	2030.9	2126.3	2213.5
30°	833.3	1011.3	1174.1	1339.2	1497.4	1665.0	1797.3	1965.5	2091.6	2185.5	2277.0
27.5°	881.5	1059.7	1230.7	1398.3	1562.4	1710.8	1873.7	2015.4	2144.0	2234.4	2338.6
25°	926.3	1096.1	1279.2	1446.4	1615.5	1761.0	1929.1	2070.7	2183.2	2290.2	2393.8
22.5°	966.3	1140.5	1319.1	1478.8	1652.2	1816.2	1964.4	2119.0	2222.7	2328.9	2439.1
20°	1001.0	1179.3	1358.2	1529.9	1680.1	1861.6	2003.9	2153.4	2261.6	2367.7	2471.4
17.5°	1029.5	1213.7	1395.8	1568.5	1722.5	1889.5	2050.0	2181.8	2289.2	2396.2	2505.1
15°	1052.6	1244.2	1422.7	1596.6	1758.2	1917.5	2088.0	2207.1	2311.7	2416.0	2542.8
12.5°	1073.1	1265.5	1442.5	1621.6	1787.8	1940.5	2116.9	2232.3	2335.8	2439.5	2556.6
10°	1090.3	1279.6	1459.0	1638.3	1811.4	1964.3	2137.7	2253.2	2356.8	2469.3	2575.3
7.5°	1102.1	1289.2	1472.4	1651.2	1827.6	1981.5	2155.0	2269.2	2373.2	2490.9	2593.7
5°	1109.3	1294.6	1480.2	1660.1	1837.6	1990.2	2165.1	2281.1	2385.6	2504.9	2609.3
2.5°	1112.1	1295.8	1482.4	1664.6	1842.7	1991.5	2170.6	2288.5	2393.3	2511.5	2619.3
0°	1111.0	1293.2	1479.9	1664.4	1841.8	1986.7	2171.6	2291.0	2395.9	2511.2	2623.6
-2.5°	1113.7	1297.2	1482.9	1665.5	1844.1	1992.6	2173.1	2290.9	2396.6	2514.3	2623.5
-5°	1112.2	1297.0	1481.2	1661.9	1840.8	1992.4	2170.0	2285.9	2391.9	2510.1	2617.9
-7.5°	1106.3	1292.2	1473.7	1653.9	1832.6	1985.0	2162.7	2275.9	2381.7	2497.8	2607.2
-10°	1095.4	1282.2	1460.7	1641.6	1817.5	1969.2	2147.6	2261.1	2367.7	2477.4	2593.9
-12.5°	1080.0	1266.6	1445.8	1625.4	1793.0	1947.0	2128.5	2242.5	2348.5	2455.9	2576.9
-15°	1062.1	1245.1	1428.4	1601.0	1761.1	1925.2	2099.6	2220.8	2325.7	2435.3	2554.1
-17.5°	1042.1	1220.8	1404.4	1573.6	1727.7	1899.2	2058.4	2197.3	2300.0	2411.6	2518.1
-20°	1015.0	1195.0	1369.5	1534.7	1688.0	1874.1	2012.3	2168.1	2267.7	2374.6	2488.0

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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	979.8	1155.5	1329.3	1482.5	1660.1	1824.1	1973.4	2129.4	2235.3	2335.6	2454.9
-25°	943.3	1109.6	1280.4	1454.9	1622.8	1767.9	1938.5	2078.2	2196.9	2287.9	2393.1
-27.5°	907.8	1079.3	1242.1	1411.0	1566.2	1721.3	1882.4	2023.6	2151.3	2245.7	2339.4
-30°	868.7	1031.1	1193.0	1351.2	1500.2	1677.0	1805.3	1974.1	2098.9	2195.2	2283.4
-32.5°	824.9	968.9	1120.5	1284.9	1452.8	1600.2	1752.7	1888.7	2039.0	2132.3	2225.9
-35°	773.8	917.4	1070.0	1234.5	1377.8	1518.7	1687.3	1809.8	1944.2	2052.7	2145.1
-37.5°	720.4	862.6	998.7	1139.6	1298.2	1451.4	1584.2	1745.0	1829.6	1962.0	2052.0
-40°	661.1	802.5	932.5	1068.1	1225.1	1359.7	1501.3	1625.5	1753.8	1835.5	1957.9
-42.5°	600.2	732.6	866.2	987.4	1115.7	1276.5	1396.2	1521.9	1639.8	1749.1	1826.3
-45°	539.2	653.0	795.0	912.4	1027.5	1149.8	1288.4	1406.5	1526.7	1634.5	1730.0
-47.5°	477.5	583.1	697.9	834.1	942.5	1040.3	1159.0	1281.5	1394.2	1508.9	1615.4
-50°	413.2	513.7	610.1	735.8	852.7	939.8	1029.4	1142.3	1255.3	1356.1	1464.6
-52.5°	348.4	440.5	534.3	620.9	744.1	835.1	916.4	999.6	1100.7	1205.2	1286.8
-55°	293.7	364.5	452.4	538.4	612.6	714.6	799.9	873.7	949.4	1027.9	1128.4
-57.5°	244.6	296.0	366.2	447.1	517.7	587.3	663.0	746.6	810.2	877.6	947.7
-60°	189.4	243.8	287.2	350.4	420.9	480.7	543.9	604.0	670.9	731.0	791.6
-62.5°	145.8	185.0	232.7	269.4	316.9	379.8	433.2	475.7	539.2	586.6	639.6
-65°	109.9	139.1	168.3	209.8	242.1	274.4	322.8	372.1	412.4	444.8	492.0
-67.5°	74.3	101.3	125.5	146.6	174.4	202.5	232.0	258.4	294.1	333.4	366.5
-70°	52.8	66.3	86.0	103.4	121.0	138.1	157.0	173.1	198.7	222.4	242.7
-72.5°	40.3	48.2	57.3	66.4	78.6	88.9	102.5	115.5	128.6	141.9	154.8
-75°	30.5	35.9	41.2	47.3	53.1	59.5	65.0	69.4	73.2	84.6	92.8
-77.5°	22.2	25.9	29.7	33.6	37.7	41.7	46.0	49.8	53.6	57.3	60.9
-80°	15.7	17.7	20.2	22.8	25.4	28.2	30.9	33.6	36.3	38.8	41.2
-82.5°	10.6	12.1	13.5	14.9	16.3	17.6	19.0	20.7	22.3	23.7	25.1
-85°	5.6	6.6	7.5	8.4	9.3	10.2	11.1	11.9	12.7	13.3	14.0
-87.5°	2.3	2.6	2.9	3.1	3.4	3.7	3.9	4.2	4.4	4.6	4.9
-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: P622894 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-50W-7030

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	0.1	0.1	0.1	0.1	0.1
85°	0.5	0.7	0.9	0.9	0.9	0.8	0.7	0.4	0.2	0.2	0.2
82.5°	4.6	5.0	5.2	5.3	5.4	5.5	5.6	5.9	6.1	6.3	6.5
80°	13.8	15.0	15.9	16.8	17.8	18.9	19.7	20.2	20.5	21.0	21.4
77.5°	31.2	33.3	35.2	37.0	38.5	39.8	40.9	41.8	42.5	43.3	44.0
75°	51.9	55.2	58.1	60.9	63.4	65.4	67.1	68.5	69.5	70.9	72.1
72.5°	81.9	88.0	89.8	91.1	94.3	97.2	99.7	101.7	103.2	104.9	106.4
70°	143.8	142.8	144.7	160.5	175.5	180.3	177.1	169.1	171.8	182.7	193.4
67.5°	264.7	283.2	301.2	318.6	334.9	348.4	359.0	366.8	371.4	379.3	389.3
65°	412.7	445.9	468.1	485.4	518.0	541.6	559.0	570.9	578.5	589.3	601.0
62.5°	587.7	633.5	672.8	709.6	746.2	770.1	787.1	802.4	807.3	810.8	825.3
60°	784.7	835.1	872.1	904.4	940.0	981.6	1013.4	1032.2	1054.6	1064.3	1071.9
57.5°	961.5	1004.2	1080.4	1128.1	1155.9	1190.9	1223.9	1262.4	1279.6	1282.9	1296.8
55°	1155.0	1215.9	1261.0	1319.6	1358.8	1375.5	1420.6	1459.6	1487.4	1500.3	1510.5
52.5°	1312.9	1393.5	1452.5	1496.1	1556.6	1608.5	1621.0	1645.3	1674.3	1705.1	1731.3
50°	1517.9	1572.4	1637.3	1681.3	1721.2	1784.4	1844.8	1861.7	1869.9	1874.2	1901.1
47.5°	1661.6	1716.2	1767.0	1859.4	1926.2	1964.4	1989.9	2029.2	2062.3	2088.7	2104.8
45°	1776.1	1858.7	1944.5	2001.0	2048.4	2087.0	2131.1	2175.5	2206.6	2216.4	2224.4
42.5°	1917.0	1998.8	2063.2	2120.7	2179.6	2250.8	2294.5	2307.6	2334.7	2375.3	2401.7
40°	2033.0	2113.1	2190.3	2256.3	2325.7	2356.2	2395.1	2438.3	2475.9	2487.6	2489.7
37.5°	2134.9	2235.6	2303.0	2371.3	2410.9	2460.5	2523.3	2543.5	2578.9	2608.3	2625.2
35°	2230.6	2319.1	2405.9	2446.7	2515.9	2563.4	2617.0	2645.5	2665.3	2698.6	2723.7
32.5°	2307.0	2396.2	2460.7	2542.3	2597.1	2650.2	2676.9	2717.6	2757.0	2779.7	2794.5
30°	2375.1	2455.6	2540.9	2609.5	2667.7	2699.7	2756.4	2802.1	2832.9	2849.2	2873.7
27.5°	2435.5	2521.5	2601.2	2668.4	2716.6	2774.0	2819.5	2851.9	2879.1	2909.2	2926.2
25°	2493.1	2577.8	2654.2	2712.0	2775.0	2822.8	2867.7	2906.5	2941.6	2963.2	2992.5
22.5°	2530.7	2627.5	2694.8	2762.6	2820.7	2874.4	2916.2	2958.1	2992.5	3022.2	3035.5
20°	2578.9	2661.5	2737.2	2805.6	2862.8	2912.9	2966.4	2999.1	3029.9	3061.7	3081.8
17.5°	2605.4	2692.7	2769.5	2842.8	2898.8	2949.6	2992.3	3033.2	3067.9	3096.1	3112.5
15°	2626.8	2719.5	2799.8	2865.0	2924.8	2976.0	3019.9	3060.2	3095.0	3119.7	3145.3
12.5°	2649.8	2737.6	2818.2	2889.0	2943.7	2995.8	3043.6	3081.7	3114.1	3147.6	3169.3
10°	2674.5	2751.4	2829.9	2901.7	2962.4	3016.4	3060.8	3098.9	3132.5	3165.0	3186.6
7.5°	2694.8	2776.5	2847.1	2912.0	2969.9	3031.7	3076.8	3115.6	3151.4	3181.3	3203.8
5°	2710.6	2793.1	2867.5	2929.3	2992.0	3048.0	3089.5	3127.3	3167.2	3193.3	3219.1
2.5°	2723.4	2803.2	2879.5	2943.8	3004.9	3060.3	3102.4	3141.8	3179.0	3206.0	3224.8
0°	2730.7	2808.5	2884.9	2951.7	3010.5	3069.6	3112.2	3151.8	3188.2	3217.5	3245.4
-2.5°	2727.9	2808.1	2883.8	2950.7	3010.9	3065.8	3111.6	3152.2	3187.5	3218.1	3241.7
-5°	2719.5	2802.5	2876.8	2942.1	3004.9	3058.0	3106.7	3148.5	3179.0	3206.5	3232.0
-7.5°	2707.6	2790.8	2862.8	2930.7	2990.4	3046.8	3094.8	3135.3	3165.3	3190.9	3213.5
-10°	2691.0	2771.7	2849.6	2921.1	2987.2	3034.6	3080.0	3121.4	3151.1	3175.4	3196.5
-12.5°	2667.1	2757.7	2838.2	2901.7	2963.3	3013.9	3066.0	3100.1	3134.6	3164.7	3182.8
-15°	2645.5	2739.6	2813.8	2879.1	2945.5	3002.2	3041.5	3081.5	3115.4	3137.2	3160.9
-17.5°	2624.0	2708.5	2786.5	2863.4	2911.6	2964.5	3015.6	3055.8	3084.6	3111.7	3127.9
-20°	2587.5	2678.3	2758.2	2819.4	2885.5	2931.7	2975.3	3021.4	3046.6	3075.8	3097.0



REPORT NUMBER: P622894 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-50W-7030

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2545.9	2642.6	2714.5	2789.2	2838.5	2897.5	2938.7	2972.3	3008.6	3026.8	3050.3
-25°	2507.2	2587.8	2672.3	2736.8	2800.6	2844.3	2895.9	2932.9	2962.3	2980.3	3001.9
-27.5°	2447.5	2538.7	2618.8	2689.2	2747.6	2798.3	2840.6	2875.8	2916.1	2936.6	2948.1
-30°	2383.3	2473.8	2559.7	2635.6	2687.6	2732.2	2781.2	2823.4	2849.7	2867.6	2889.2
-32.5°	2312.9	2410.6	2481.1	2561.6	2625.0	2665.2	2702.3	2745.8	2777.4	2795.3	2810.6
-35°	2243.5	2329.6	2425.5	2470.5	2533.0	2587.6	2637.0	2663.3	2687.3	2717.7	2738.5
-37.5°	2143.1	2247.7	2319.8	2388.9	2436.2	2485.0	2539.5	2569.2	2601.2	2621.6	2637.6
-40°	2036.1	2116.0	2209.4	2278.4	2334.1	2381.5	2419.4	2461.9	2491.3	2506.9	2516.9
-42.5°	1938.8	2005.5	2071.1	2144.2	2207.3	2275.2	2306.3	2330.5	2358.8	2395.7	2416.2
-45°	1799.5	1891.2	1961.1	2019.8	2071.1	2117.9	2162.9	2204.3	2233.2	2245.8	2256.9
-47.5°	1686.3	1745.9	1824.0	1899.2	1949.9	1995.7	2033.7	2065.7	2091.9	2112.9	2128.4
-50°	1555.1	1620.3	1669.5	1724.1	1803.1	1858.0	1879.2	1898.1	1928.3	1967.7	1985.6
-52.5°	1368.1	1432.2	1521.0	1581.8	1620.3	1644.8	1691.0	1735.3	1765.2	1769.2	1780.2
-55°	1191.7	1251.0	1307.5	1352.4	1410.5	1485.3	1510.1	1523.2	1524.3	1526.5	1560.1
-57.5°	1016.6	1090.8	1131.5	1170.6	1213.6	1253.1	1284.0	1304.2	1329.4	1351.6	1369.1
-60°	851.0	907.8	961.2	1011.4	1049.9	1066.6	1081.8	1117.5	1152.9	1173.0	1181.2
-62.5°	693.2	740.3	785.6	827.7	864.2	896.8	920.3	936.8	946.9	954.1	964.2
-65°	532.1	571.6	614.2	654.6	681.8	706.1	723.0	734.1	744.1	763.9	779.4
-67.5°	396.3	424.5	450.6	468.9	494.8	520.3	540.4	555.3	565.0	574.8	585.4
-70°	266.7	291.2	312.8	333.0	349.4	365.4	380.1	392.4	399.2	404.6	408.5
-72.5°	169.6	182.8	193.5	204.9	214.7	224.3	232.6	238.9	243.2	246.8	249.3
-75°	100.8	109.7	118.0	125.1	129.6	131.8	131.7	129.8	126.1	126.0	126.4
-77.5°	64.4	67.8	71.1	73.9	76.4	78.6	80.5	82.2	83.9	85.8	87.2
-80°	43.5	45.7	47.7	49.5	51.1	52.6	53.9	55.0	55.9	56.7	57.4
-82.5°	26.5	27.9	29.2	30.2	31.1	31.8	32.5	33.2	33.8	34.3	34.7
-85°	14.6	15.2	15.7	16.1	16.5	16.8	17.1	17.3	17.5	17.6	17.7
-87.5°	5.2	5.5	5.8	6.0	6.2	6.4	6.5	6.7	6.8	6.9	6.9
-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: P622894 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-50W-7030

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°	0.1	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	0.4
82.5°	6.6	6.6	6.6	6.5	6.5	6.5	6.5	6.4	6.2	5.9	5.7
80°	21.6	21.7	21.6	21.4	21.6	21.6	21.4	21.2	20.8	20.3	19.9
77.5°	44.4	44.5	44.5	44.2	44.5	44.5	44.3	43.9	43.2	42.3	41.4
75°	72.8	73.2	73.2	72.8	73.1	73.0	72.5	71.7	70.5	69.1	68.0
72.5°	107.5	108.2	108.3	108.1	108.3	108.1	107.4	106.2	104.5	102.7	101.5
70°	198.6	199.1	195.7	189.2	195.8	199.6	200.4	197.7	191.3	184.7	181.6
67.5°	396.1	399.7	399.8	396.4	400.7	401.4	398.6	392.3	382.7	375.9	372.0
65°	606.5	606.0	600.3	589.7	601.5	608.4	609.6	604.5	592.5	579.5	570.2
62.5°	841.4	851.4	855.5	853.8	860.8	862.8	860.6	855.1	843.3	831.3	819.8
60°	1081.7	1091.3	1098.0	1099.1	1103.8	1102.1	1096.1	1087.5	1078.2	1062.6	1039.3
57.5°	1313.5	1321.7	1322.0	1316.5	1323.8	1325.0	1317.7	1301.5	1289.2	1284.2	1266.2
55°	1520.2	1527.8	1532.0	1531.7	1532.9	1529.6	1522.7	1513.3	1503.1	1494.2	1478.0
52.5°	1745.9	1751.4	1753.5	1749.8	1754.7	1753.9	1750.1	1739.9	1722.9	1698.9	1656.1
50°	1924.9	1932.9	1928.3	1914.3	1931.8	1939.7	1934.5	1912.9	1884.7	1874.5	1863.5
47.5°	2119.8	2129.3	2133.9	2133.6	2135.0	2131.8	2123.7	2109.4	2092.1	2066.2	2036.5
45°	2240.7	2250.6	2254.3	2252.2	2254.7	2251.7	2243.0	2228.3	2220.8	2214.0	2181.6
42.5°	2420.2	2426.4	2429.2	2427.5	2428.8	2425.1	2417.4	2401.8	2379.3	2337.7	2310.6
40°	2508.5	2520.1	2524.1	2522.3	2528.7	2527.9	2516.9	2495.0	2489.6	2477.4	2450.8
37.5°	2634.8	2650.3	2656.4	2655.2	2656.9	2651.6	2637.3	2628.8	2614.2	2591.3	2547.8
35°	2736.3	2744.0	2749.6	2751.6	2749.7	2744.1	2736.1	2725.1	2701.8	2668.5	2646.7
32.5°	2807.4	2816.7	2822.1	2821.5	2824.4	2823.1	2815.0	2793.9	2776.8	2757.4	2726.6
30°	2896.2	2897.1	2903.9	2909.9	2906.1	2898.3	2890.1	2873.4	2849.7	2831.5	2800.1
27.5°	2940.0	2951.7	2958.6	2958.4	2959.5	2955.1	2943.5	2929.1	2910.4	2897.2	2852.4
25°	3000.0	3006.8	3011.4	3011.5	3011.6	3007.3	3000.6	2994.1	2966.6	2948.0	2909.6
22.5°	3056.8	3066.4	3068.6	3067.1	3066.9	3060.8	3052.5	3035.5	3022.1	2996.2	2961.3
20°	3098.8	3108.1	3108.7	3109.7	3111.5	3111.2	3100.8	3083.3	3061.0	3029.7	2999.6
17.5°	3133.8	3142.5	3146.3	3146.6	3144.3	3141.3	3133.5	3118.1	3094.6	3065.7	3031.6
15°	3162.4	3167.6	3173.1	3175.6	3173.3	3166.4	3159.6	3146.2	3118.4	3089.2	3061.1
12.5°	3184.2	3193.9	3196.4	3196.6	3196.9	3194.8	3183.2	3166.0	3141.2	3114.1	3081.9
10°	3202.4	3211.8	3219.1	3217.7	3218.1	3214.3	3207.2	3184.7	3163.4	3137.6	3102.9
7.5°	3224.9	3232.4	3237.1	3236.3	3245.3	3234.8	3227.5	3210.5	3182.8	3156.4	3120.7
5°	3235.1	3249.2	3253.1	3252.4	3251.7	3247.1	3241.8	3225.4	3200.9	3169.7	3133.9
2.5°	3241.6	3251.2	3258.0	3257.9	3261.7	3257.6	3251.9	3229.9	3207.2	3175.0	3141.4
0°	3260.7	3267.6	3270.2	3263.6	3271.5	3261.9	3253.5	3239.4	3205.2	3176.2	3144.2
-2.5°	3257.2	3261.6	3265.9	3263.1	3257.1	3248.9	3240.5	3219.8	3198.4	3168.2	3137.5
-5°	3245.0	3252.9	3255.4	3249.0	3250.2	3239.3	3235.6	3211.3	3187.0	3157.6	3126.9
-7.5°	3233.8	3237.2	3239.6	3237.6	3236.4	3226.2	3223.2	3201.9	3173.0	3147.4	3113.8
-10°	3214.9	3224.5	3227.5	3232.8	3226.6	3216.5	3205.4	3190.1	3163.2	3135.2	3102.0
-12.5°	3202.2	3205.8	3209.0	3211.5	3204.9	3197.4	3189.3	3170.1	3147.6	3118.1	3086.4
-15°	3178.4	3182.7	3184.1	3180.7	3180.0	3176.4	3162.0	3142.9	3124.0	3094.0	3059.3
-17.5°	3143.2	3153.8	3156.3	3154.6	3151.8	3144.8	3134.4	3116.8	3093.7	3064.1	3033.1
-20°	3107.5	3116.4	3121.6	3118.4	3115.9	3107.9	3097.2	3081.8	3058.2	3029.4	3003.1

Classified

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

Scaled Data Report



REPORT NUMBER: P622894 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: LSF120-XX-PC-50W-7030

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	3065.6	3069.9	3074.3	3071.8	3071.9	3066.5	3057.3	3038.8	3016.1	2990.6	2954.1
-25°	3009.7	3022.0	3024.4	3019.0	3020.7	3015.3	3001.7	2989.3	2963.4	2938.9	2907.2
-27.5°	2960.9	2970.0	2971.3	2968.4	2968.0	2962.4	2949.9	2932.4	2913.5	2889.8	2854.1
-30°	2903.9	2909.5	2914.1	2915.0	2909.4	2900.0	2889.3	2872.0	2850.4	2827.8	2799.7
-32.5°	2825.8	2833.4	2834.7	2831.0	2830.4	2825.3	2814.0	2794.8	2778.2	2755.8	2720.7
-35°	2747.6	2754.9	2759.5	2760.6	2756.8	2750.2	2742.1	2728.6	2702.5	2668.4	2641.9
-37.5°	2648.1	2658.6	2660.5	2655.3	2655.9	2648.4	2632.2	2619.5	2602.5	2575.9	2538.5
-40°	2531.2	2538.8	2539.6	2534.7	2536.0	2531.3	2519.1	2499.5	2486.5	2468.3	2437.0
-42.5°	2428.7	2432.7	2433.1	2428.8	2429.0	2424.2	2415.6	2395.8	2370.0	2335.1	2310.3
-45°	2267.3	2273.8	2275.7	2272.6	2271.0	2264.0	2252.1	2235.6	2225.7	2211.1	2174.1
-47.5°	2140.5	2148.1	2150.5	2147.7	2147.2	2141.4	2129.9	2114.7	2096.2	2072.3	2042.3
-50°	1994.3	2001.8	2005.0	2000.8	2000.8	1992.8	1979.2	1962.8	1939.1	1902.7	1875.3
-52.5°	1792.2	1798.1	1798.3	1793.4	1793.5	1788.3	1777.4	1760.2	1744.2	1734.7	1696.0
-55°	1575.8	1576.2	1565.1	1546.1	1557.4	1561.8	1556.5	1538.5	1506.4	1502.1	1494.2
-57.5°	1374.2	1375.0	1371.3	1361.9	1364.9	1361.3	1351.2	1335.7	1316.4	1300.6	1283.9
-60°	1189.5	1195.9	1198.2	1194.5	1193.2	1185.5	1173.3	1158.2	1142.1	1119.1	1088.4
-62.5°	971.8	976.4	977.5	974.4	974.0	969.5	961.3	949.9	935.9	925.9	913.3
-65°	786.4	786.1	779.7	768.7	775.5	777.7	773.8	762.6	742.9	719.4	706.9
-67.5°	591.2	592.6	590.1	584.5	586.1	584.8	580.1	571.4	557.5	541.3	528.1
-70°	410.6	410.8	408.5	403.7	404.2	402.4	398.7	393.7	388.1	382.4	373.9
-72.5°	250.0	249.1	246.2	241.4	245.6	247.9	248.1	246.4	242.8	236.7	229.1
-75°	126.3	125.6	124.4	122.7	122.7	122.3	121.5	120.2	118.6	117.9	121.3
-77.5°	88.1	88.6	88.6	88.4	88.3	88.0	87.3	86.3	85.0	83.4	81.9
-80°	57.9	58.2	58.4	58.3	58.3	58.1	57.8	57.2	56.5	55.5	54.5
-82.5°	35.0	35.1	35.2	35.1	35.1	35.0	34.8	34.4	34.0	33.4	32.8
-85°	17.8	17.9	17.8	17.8	17.8	17.7	17.6	17.5	17.3	17.0	16.8
-87.5°	7.0	7.0	7.1	7.1	7.0	7.0	6.9	6.8	6.7	6.5	6.4
-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: P622894 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-50W-7030

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°	0.6	0.8	0.9	0.9	0.8	0.7	0.5	0.3	0.3	0.3	0.4
82.5°	5.4	5.3	5.2	5.1	5.0	4.9	4.8	4.6	4.4	4.0	3.7
80°	19.3	18.5	17.4	16.4	15.4	14.3	13.2	11.9	10.9	9.6	8.3
77.5°	40.3	39.0	37.6	36.0	34.2	32.4	30.2	27.9	25.2	22.3	19.8
75°	66.4	64.6	62.4	59.7	56.6	53.4	50.0	46.7	43.6	40.2	36.6
72.5°	99.4	96.1	92.7	89.3	87.4	84.6	78.1	70.4	65.1	59.8	55.0
70°	182.8	180.9	174.2	160.3	142.2	134.3	134.0	128.2	113.8	96.4	80.2
67.5°	362.5	349.8	334.0	314.5	292.4	270.4	249.0	221.3	188.7	176.1	155.4
65°	556.9	537.9	524.9	510.7	475.0	435.7	403.0	368.0	331.0	290.4	242.2
62.5°	801.7	776.9	744.1	700.9	658.1	619.0	584.6	531.6	475.8	428.1	372.1
60°	1020.8	991.4	948.4	922.1	880.2	825.2	759.8	705.1	651.9	578.4	499.9
57.5°	1231.8	1195.8	1151.5	1122.9	1075.1	998.6	953.6	888.8	813.2	740.6	658.1
55°	1438.9	1380.5	1352.8	1312.1	1252.7	1192.3	1135.9	1043.5	980.1	895.1	804.5
52.5°	1617.8	1603.6	1571.2	1512.4	1440.1	1385.3	1300.0	1229.2	1138.4	1038.4	945.4
50°	1851.3	1798.0	1727.1	1671.7	1632.3	1574.5	1491.7	1402.7	1291.8	1198.7	1085.9
47.5°	1993.8	1963.5	1924.2	1866.5	1767.3	1702.9	1652.9	1570.2	1458.5	1325.3	1231.5
45°	2132.1	2084.8	2041.0	1987.8	1937.9	1860.6	1763.2	1692.8	1593.8	1480.4	1338.4
42.5°	2296.0	2261.5	2177.6	2116.6	2037.8	1978.2	1914.1	1793.6	1711.2	1592.6	1480.1
40°	2395.0	2357.1	2321.8	2255.9	2185.7	2084.8	2000.6	1922.2	1803.7	1715.1	1572.8
37.5°	2520.7	2471.7	2411.2	2361.8	2296.5	2223.7	2114.1	2011.6	1915.1	1797.9	1702.2
35°	2621.4	2560.0	2511.8	2449.0	2392.1	2306.0	2215.3	2113.4	2008.2	1883.3	1778.4
32.5°	2679.7	2643.0	2599.5	2531.5	2456.8	2380.1	2287.0	2193.4	2097.9	1986.8	1832.7
30°	2758.6	2712.9	2655.5	2608.2	2529.1	2444.2	2354.0	2255.9	2158.9	2057.6	1916.7
27.5°	2820.8	2772.8	2727.5	2655.5	2592.2	2511.6	2414.1	2312.0	2216.4	2108.3	1976.0
25°	2873.9	2827.1	2775.3	2713.8	2643.0	2562.2	2479.9	2360.0	2255.1	2155.8	2025.8
22.5°	2921.8	2878.2	2816.3	2761.8	2690.6	2615.2	2521.9	2417.4	2305.7	2200.7	2074.6
20°	2965.9	2912.0	2859.0	2796.1	2728.6	2653.0	2558.7	2456.4	2337.7	2231.9	2118.9
17.5°	2990.6	2946.8	2889.2	2826.5	2764.7	2678.1	2595.4	2485.6	2373.5	2265.0	2153.5
15°	3019.0	2968.6	2916.9	2862.7	2783.8	2710.5	2618.3	2518.3	2397.1	2288.0	2178.7
12.5°	3044.6	2995.5	2940.9	2875.8	2811.3	2733.4	2634.4	2542.6	2416.0	2308.9	2203.5
10°	3065.2	3015.8	2960.9	2902.3	2833.4	2742.5	2654.9	2563.2	2439.1	2331.2	2223.2
7.5°	3079.9	3035.8	2979.6	2916.7	2847.7	2761.6	2676.7	2580.1	2460.0	2348.5	2238.3
5°	3091.6	3049.5	2988.6	2929.6	2857.8	2776.2	2693.5	2592.2	2472.0	2359.5	2248.3
2.5°	3099.7	3055.2	2995.4	2937.1	2865.3	2784.4	2703.3	2599.3	2475.8	2365.2	2253.3
0°	3103.4	3057.5	2998.3	2939.2	2869.1	2785.4	2705.6	2601.4	2472.5	2365.8	2253.2
-2.5°	3095.8	3049.5	2992.1	2934.8	2863.4	2784.5	2703.0	2601.0	2478.2	2366.7	2254.9
-5°	3082.4	3037.4	2981.4	2925.9	2852.6	2777.0	2694.2	2595.2	2477.5	2362.6	2251.7
-7.5°	3073.4	3024.6	2968.7	2909.3	2836.6	2762.8	2681.4	2584.5	2469.7	2353.0	2243.7
-10°	3060.7	3012.5	2955.8	2894.8	2826.3	2742.8	2664.6	2571.0	2454.2	2339.2	2231.2
-12.5°	3044.4	2996.1	2939.8	2876.2	2813.8	2730.6	2641.9	2553.3	2429.0	2321.8	2212.5
-15°	3021.1	2973.0	2917.7	2856.9	2786.5	2713.0	2621.1	2528.3	2404.5	2300.0	2187.1
-17.5°	2995.7	2943.8	2891.3	2834.0	2758.4	2683.5	2598.8	2495.7	2381.7	2275.8	2161.1
-20°	2959.3	2907.9	2858.3	2795.0	2731.6	2649.3	2564.4	2458.8	2357.1	2244.7	2129.7



REPORT NUMBER: P622894 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-50W-7030

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2913.5	2871.6	2817.6	2761.7	2687.9	2615.5	2522.9	2423.0	2316.0	2207.4	2088.5
-25°	2869.6	2826.3	2779.1	2715.2	2646.1	2565.1	2477.1	2384.3	2270.0	2163.7	2034.2
-27.5°	2818.8	2779.6	2728.1	2664.1	2594.1	2511.9	2424.0	2322.7	2222.1	2117.2	1988.0
-30°	2757.8	2712.3	2665.7	2608.6	2532.8	2447.0	2363.1	2262.5	2165.8	2063.1	1936.2
-32.5°	2682.2	2645.5	2593.6	2536.1	2456.8	2385.7	2289.2	2196.9	2105.2	2003.8	1845.3
-35°	2607.5	2554.8	2508.8	2443.7	2395.3	2302.0	2215.5	2124.3	2021.0	1897.8	1775.1
-37.5°	2509.0	2459.0	2405.4	2361.6	2290.8	2219.6	2129.1	2024.9	1920.1	1794.4	1700.3
-40°	2390.4	2356.8	2313.4	2246.5	2183.1	2114.4	2012.1	1916.6	1799.1	1714.1	1586.2
-42.5°	2289.3	2238.9	2169.9	2123.1	2060.0	1979.7	1893.1	1789.0	1711.7	1602.8	1488.7
-45°	2129.4	2090.3	2049.5	1992.8	1931.2	1849.1	1762.7	1694.7	1602.7	1494.7	1347.8
-47.5°	2004.8	1967.1	1925.3	1865.8	1781.5	1708.8	1655.9	1584.8	1478.2	1335.8	1241.8
-50°	1856.8	1823.3	1756.2	1682.5	1638.5	1585.1	1518.1	1425.1	1305.7	1220.4	1091.6
-52.5°	1647.6	1614.2	1583.4	1533.1	1471.3	1407.2	1319.7	1251.6	1170.9	1055.7	973.0
-55°	1465.1	1420.5	1374.8	1336.5	1281.3	1211.3	1164.6	1076.7	996.6	919.4	843.5
-57.5°	1270.1	1238.5	1174.8	1135.2	1102.2	1050.7	984.5	915.6	844.8	792.1	722.0
-60°	1058.8	1042.5	1024.6	981.4	928.8	873.1	814.9	772.8	715.5	649.9	588.0
-62.5°	893.4	865.9	828.6	787.2	756.3	724.9	664.8	617.2	566.9	512.1	474.1
-65°	697.1	685.1	652.1	609.0	585.9	555.8	512.9	475.2	444.0	393.9	353.4
-67.5°	514.7	500.3	481.1	456.2	426.5	400.8	373.6	344.4	315.1	290.0	262.0
-70°	360.0	344.5	327.9	312.6	297.2	278.3	258.1	238.2	215.5	198.0	181.7
-72.5°	219.8	208.8	198.7	188.8	177.7	171.2	164.7	156.2	146.2	134.2	119.6
-75°	123.2	123.5	122.0	118.4	113.5	108.4	101.8	94.6	86.2	74.1	69.5
-77.5°	80.2	78.2	75.8	73.2	70.3	67.1	63.6	59.9	56.3	52.4	48.4
-80°	53.3	51.9	50.3	48.7	46.8	44.7	42.3	39.8	37.4	34.8	32.0
-82.5°	32.0	31.2	30.3	29.3	28.2	26.9	25.4	23.9	22.5	20.9	19.3
-85°	16.5	16.2	15.8	15.4	14.9	14.3	13.7	13.0	12.4	11.6	10.9
-87.5°	6.2	6.0	5.7	5.5	5.2	4.9	4.6	4.3	4.0	3.8	3.5
-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: P622894 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-50W-7030

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°	3.4	3.1	2.8	2.5	2.3	2.1	1.8	1.5	1.3	1.2	1.0
80°	7.9	7.3	6.4	5.7	5.1	4.6	4.0	3.4	2.9	2.5	2.0
77.5°	17.8	15.4	13.6	11.5	9.8	7.9	6.7	5.7	4.6	3.9	3.3
75°	33.0	29.3	25.5	22.0	17.9	15.0	12.0	9.5	7.5	5.5	4.5
72.5°	50.0	45.0	40.1	35.2	30.2	25.0	19.6	15.7	12.1	8.8	6.2
70°	75.6	67.1	56.5	49.4	42.8	36.5	30.1	23.6	18.1	13.4	9.3
67.5°	127.6	106.1	89.4	73.1	57.7	48.3	40.6	33.1	25.6	19.0	13.5
65°	206.4	178.1	143.3	113.5	88.9	65.4	52.2	42.7	34.0	25.5	18.2
62.5°	314.7	256.8	216.3	176.2	136.2	97.5	68.8	53.3	42.4	32.8	23.3
60°	435.5	369.8	303.4	244.5	196.5	144.5	98.4	67.1	51.7	40.0	29.6
57.5°	561.7	481.4	407.1	332.7	260.4	201.5	142.2	90.0	62.1	47.9	35.8
55°	718.7	606.1	510.2	426.8	342.6	262.8	193.9	128.2	78.2	56.4	41.8
52.5°	850.3	758.1	626.9	519.7	426.9	335.3	250.5	173.2	105.7	65.3	48.8
50°	973.4	873.8	773.1	622.9	508.0	410.8	312.0	222.8	142.0	79.1	56.3
47.5°	1114.1	981.1	874.9	746.1	596.7	481.0	378.8	275.7	181.8	101.8	64.9
45°	1242.8	1118.0	964.4	841.0	695.2	554.7	443.0	331.7	225.1	132.9	75.9
42.5°	1334.8	1232.1	1072.8	924.3	788.7	633.8	499.8	387.9	271.0	167.4	89.1
40°	1462.7	1308.6	1175.0	1000.7	862.9	714.4	563.2	441.7	318.5	201.5	109.8
37.5°	1537.8	1402.0	1256.8	1099.5	933.9	784.6	628.0	488.1	363.1	236.0	134.0
35°	1634.4	1481.1	1314.6	1171.1	997.0	844.8	690.0	534.8	404.9	271.0	158.8
32.5°	1715.8	1536.7	1404.0	1243.1	1074.2	907.3	744.9	583.9	443.9	305.9	183.3
30°	1762.7	1628.5	1460.2	1289.5	1126.9	955.5	791.4	630.8	478.3	338.3	206.8
27.5°	1816.9	1681.8	1503.4	1352.6	1182.3	1005.6	837.2	673.4	509.8	368.1	230.1
25°	1884.8	1717.5	1563.1	1406.1	1235.5	1058.2	882.9	710.6	542.7	395.4	251.5
22.5°	1927.3	1759.5	1617.6	1441.3	1268.3	1094.6	920.1	744.3	574.2	420.0	272.2
20°	1957.9	1808.6	1644.8	1473.3	1308.4	1127.5	951.3	774.9	602.2	442.1	292.1
17.5°	1986.2	1850.8	1674.8	1507.0	1346.7	1164.5	981.0	802.4	626.4	461.5	309.7
15°	2032.7	1881.0	1700.4	1544.9	1375.4	1194.2	1008.6	826.5	646.7	478.8	325.1
12.5°	2066.5	1904.1	1730.5	1572.4	1400.0	1215.0	1030.9	846.0	663.4	493.8	338.2
10°	2093.3	1923.4	1751.6	1592.0	1421.8	1231.1	1047.7	861.1	677.2	506.5	349.1
7.5°	2114.2	1937.7	1767.1	1608.7	1434.1	1243.8	1059.3	872.0	687.9	516.7	357.8
5°	2124.4	1947.1	1779.0	1621.5	1441.1	1252.6	1067.0	878.8	695.3	524.4	364.3
2.5°	2129.7	1951.4	1784.1	1629.0	1444.2	1257.2	1070.8	881.9	699.4	529.4	368.6
0°	2129.4	1950.8	1782.0	1630.1	1443.4	1257.0	1070.5	881.4	700.2	531.8	370.7
-2.5°	2130.9	1953.6	1786.5	1630.5	1446.3	1259.1	1073.1	884.8	702.7	533.4	372.1
-5°	2126.7	1951.1	1784.1	1624.5	1445.1	1256.4	1071.5	884.8	701.9	532.2	371.5
-7.5°	2117.6	1943.2	1776.0	1613.5	1439.6	1249.3	1065.5	881.4	697.7	528.4	368.6
-10°	2100.0	1929.5	1763.7	1598.6	1428.3	1238.0	1055.2	874.4	689.9	521.9	363.6
-12.5°	2079.1	1910.5	1743.3	1581.1	1408.9	1223.0	1041.7	863.9	679.1	512.7	356.5
-15°	2049.6	1888.7	1712.5	1558.0	1387.2	1204.5	1024.8	849.7	666.5	501.0	347.2
-17.5°	2002.0	1862.6	1687.2	1526.3	1361.3	1181.0	1004.3	830.1	650.6	486.8	336.0
-20°	1969.1	1831.4	1657.4	1493.0	1325.1	1152.3	978.7	806.4	631.5	471.4	322.7



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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°	1938.5	1777.2	1630.8	1456.6	1286.1	1117.5	949.0	779.7	609.1	453.7	307.3
-25°	1901.5	1726.8	1581.2	1422.9	1251.9	1078.4	916.9	747.2	584.0	433.7	291.7
-27.5°	1836.6	1688.1	1523.6	1369.1	1205.1	1040.5	881.7	710.4	556.5	411.1	275.7
-30°	1766.3	1637.4	1473.4	1304.7	1150.9	995.8	842.2	675.1	526.9	386.0	258.2
-32.5°	1716.5	1555.3	1412.5	1251.4	1087.1	945.9	796.8	636.7	495.4	359.1	238.4
-35°	1641.6	1491.6	1326.6	1188.8	1034.7	892.2	740.3	597.5	462.5	330.4	216.3
-37.5°	1551.6	1405.5	1258.8	1101.4	973.3	834.8	685.2	553.1	426.7	302.6	194.2
-40°	1461.7	1310.9	1180.1	1039.0	907.0	769.5	629.9	505.5	388.3	276.4	173.1
-42.5°	1341.4	1230.8	1079.8	964.1	837.1	699.4	574.1	458.3	347.0	246.2	152.9
-45°	1245.5	1104.3	1005.0	884.8	758.5	630.7	511.9	408.3	307.2	213.0	135.2
-47.5°	1111.9	1018.8	915.9	800.5	675.6	561.5	456.4	358.0	268.7	184.7	116.8
-50°	1005.7	912.5	821.0	706.6	596.4	487.7	397.8	309.0	227.6	156.6	97.6
-52.5°	887.3	808.7	712.3	613.9	506.4	424.7	341.1	260.1	188.7	132.0	77.8
-55°	776.5	688.8	604.8	512.8	436.8	359.4	282.5	215.8	154.2	106.8	58.3
-57.5°	647.0	573.4	495.9	432.6	364.1	294.5	230.8	169.8	126.0	81.4	49.5
-60°	526.2	465.1	406.5	352.6	292.5	233.8	179.9	136.6	97.3	58.9	42.0
-62.5°	415.6	366.7	324.4	270.7	227.5	178.6	139.2	105.2	68.8	47.5	35.8
-65°	318.8	282.4	235.4	209.1	164.7	134.8	105.5	73.9	52.0	39.5	30.0
-67.5°	225.3	203.8	175.3	145.1	123.5	99.0	71.8	53.1	41.3	32.4	24.7
-70°	161.8	139.9	121.0	102.6	85.2	65.2	50.3	40.9	33.0	26.0	19.9
-72.5°	104.3	89.1	78.2	65.9	55.5	45.9	38.1	31.6	25.7	20.3	16.3
-75°	64.3	58.4	51.2	45.2	39.1	33.8	28.5	23.7	19.5	16.0	12.8
-77.5°	44.3	39.9	35.9	31.7	27.8	24.0	20.4	17.3	14.5	12.0	9.3
-80°	29.3	26.6	23.7	21.1	18.6	16.0	14.2	12.3	10.3	8.1	5.8
-82.5°	17.5	16.1	14.8	13.5	12.2	10.8	9.3	7.7	6.1	4.8	3.7
-85°	10.0	9.2	8.3	7.4	6.5	5.6	4.7	3.8	3.1	2.6	2.1
-87.5°	3.3	3.0	2.8	2.6	2.3	2.1	1.8	1.6	1.3	1.1	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°	1.6	1.2	1.0	0.7	0.3	0.2	0.0
77.5°	2.7	2.1	1.5	1.0	0.5	0.2	0.0
75°	3.7	2.9	2.2	1.4	0.8	0.3	0.0
72.5°	4.8	3.8	2.8	1.9	1.1	0.3	0.0
70°	6.1	4.8	3.5	2.4	1.3	0.4	0.0
67.5°	9.0	5.9	4.2	2.9	1.6	0.4	0.0
65°	12.2	7.7	5.1	3.4	1.9	0.5	0.0
62.5°	15.9	10.1	6.1	3.9	2.2	0.7	0.0
60°	20.2	12.7	7.1	4.4	2.6	0.8	0.0
57.5°	24.6	15.7	9.0	4.9	2.9	1.0	0.0
55°	29.7	18.8	10.8	5.8	3.2	1.1	0.0
52.5°	34.7	22.4	12.7	6.6	3.5	1.3	0.0
50°	39.6	25.9	14.9	7.4	3.8	1.4	0.0
47.5°	44.5	29.8	17.1	8.3	4.1	1.5	0.0
45°	50.8	33.5	19.3	9.6	4.4	1.7	0.0
42.5°	57.1	37.1	21.9	10.8	4.7	1.8	0.0
40°	65.0	40.6	24.4	12.0	4.9	1.9	0.0
37.5°	73.1	43.9	26.8	13.1	5.2	2.0	0.0
35°	83.0	48.1	29.2	14.3	5.6	2.1	0.0
32.5°	93.8	52.8	31.5	15.6	6.0	2.2	0.0
30°	104.5	57.3	33.7	16.7	6.5	2.3	0.0
27.5°	120.1	62.1	35.7	17.8	6.9	2.4	0.0
25°	135.5	67.9	37.6	18.8	7.3	2.5	0.0
22.5°	149.8	73.4	39.3	19.8	7.6	2.6	0.0
20°	163.2	78.6	40.9	20.7	7.9	2.7	0.0
17.5°	176.1	83.6	42.4	21.7	8.2	2.7	0.0
15°	187.5	88.7	43.6	22.6	8.5	2.8	0.0
12.5°	197.4	93.9	44.7	23.4	8.8	2.9	0.0
10°	205.8	98.5	45.7	24.1	9.0	2.9	0.0
7.5°	212.8	102.4	46.4	24.7	9.2	2.9	0.0
5°	218.2	105.7	47.0	25.1	9.3	3.0	0.0
2.5°	222.2	108.2	47.5	25.4	9.4	3.0	0.0
0°	224.7	109.8	47.7	25.6	9.5	3.0	0.0
-2.5°	226.1	110.9	48.0	25.7	9.6	3.0	0.0
-5°	226.0	111.1	48.0	25.6	9.6	3.0	0.0
-7.5°	224.3	110.5	47.9	25.4	9.6	3.0	0.0
-10°	221.1	109.0	47.6	25.1	9.5	3.0	0.0
-12.5°	216.3	106.6	47.1	24.7	9.4	2.9	0.0
-15°	210.0	103.4	46.4	24.1	9.3	2.9	0.0
-17.5°	202.0	99.9	45.4	23.4	9.2	2.9	0.0
-20°	192.4	95.9	44.2	22.6	8.9	2.8	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	182.2	91.2	42.8	21.9	8.7	2.8	0.0
-25°	171.3	85.6	41.1	21.1	8.4	2.7	0.0
-27.5°	159.1	79.2	39.5	20.3	8.1	2.6	0.0
-30°	146.2	73.0	37.7	19.4	7.7	2.5	0.0
-32.5°	135.5	66.5	35.9	18.4	7.3	2.4	0.0
-35°	123.8	59.1	33.8	17.3	6.9	2.3	0.0
-37.5°	111.7	52.5	31.7	16.2	6.5	2.2	0.0
-40°	99.3	48.7	29.4	15.2	6.2	2.1	0.0
-42.5°	85.9	44.6	27.0	14.2	5.9	2.0	0.0
-45°	72.9	40.8	24.5	13.1	5.6	1.9	0.0
-47.5°	58.8	37.3	22.4	11.9	5.2	1.8	0.0
-50°	51.4	33.7	20.3	10.9	4.8	1.6	0.0
-52.5°	44.8	30.2	18.1	9.9	4.4	1.5	0.0
-55°	39.8	26.5	16.3	8.8	4.0	1.3	0.0
-57.5°	34.9	23.3	14.6	7.7	3.7	1.2	0.0
-60°	30.2	20.2	12.8	6.9	3.3	1.0	0.0
-62.5°	25.7	17.5	11.1	6.0	3.0	0.9	0.0
-65°	21.7	15.1	9.4	5.1	2.6	0.7	0.0
-67.5°	18.2	12.8	7.9	4.3	2.3	0.6	0.0
-70°	15.4	10.5	6.4	3.7	1.9	0.5	0.0
-72.5°	12.4	8.3	4.9	3.1	1.6	0.5	0.0
-75°	9.5	6.1	3.9	2.4	1.2	0.4	0.0
-77.5°	6.5	4.4	3.0	1.9	0.9	0.3	0.0
-80°	4.4	3.1	2.2	1.4	0.6	0.3	0.0
-82.5°	2.8	2.1	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)