

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: P622899 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **LSF120-XX-PC-70W-7050**

Issue Date: 10/4/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622899 (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-70W-7050  
Description: Flood light with selectable wattage and CCT  
Light Source: (1) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

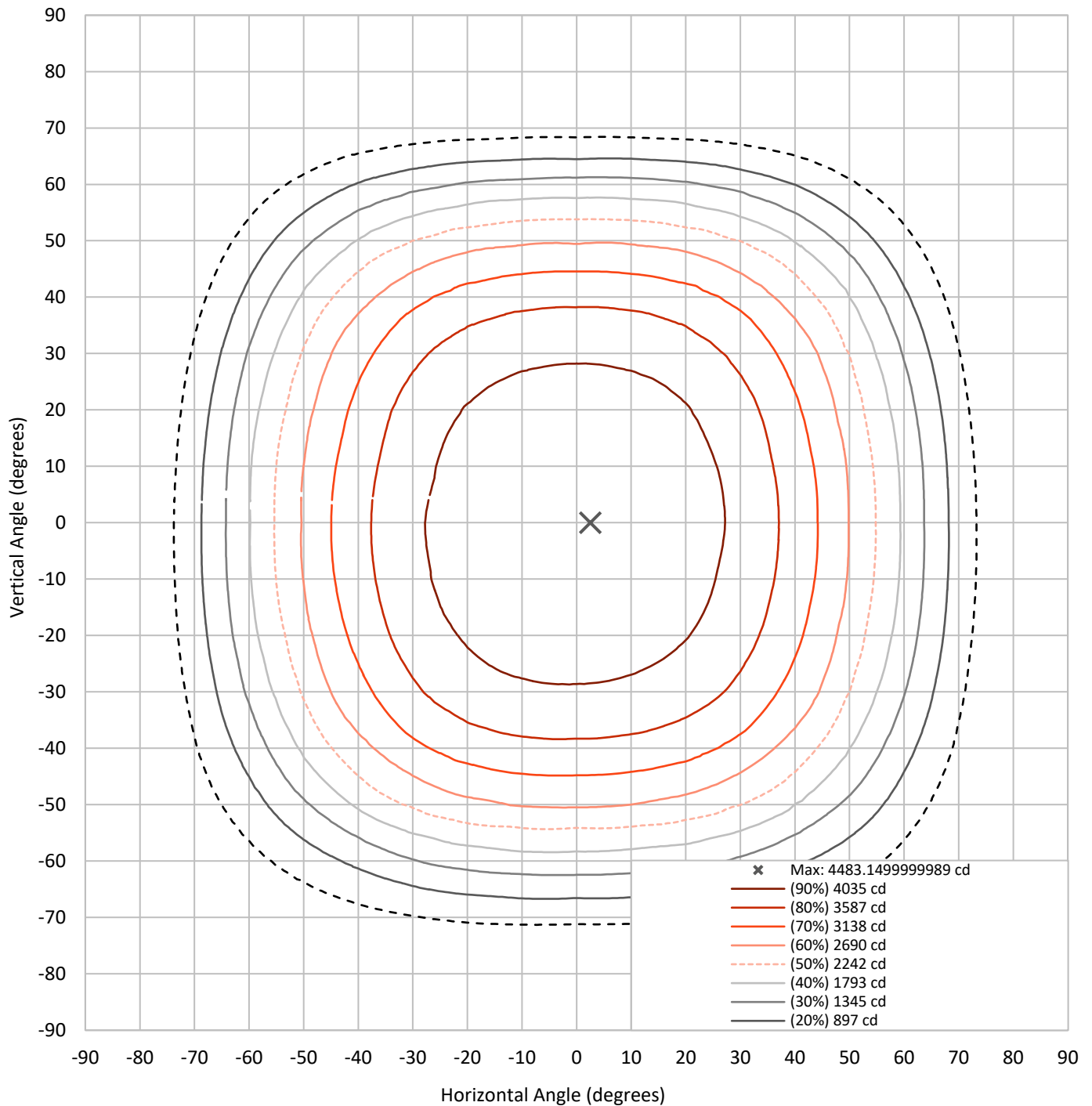
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11906.7 lumens	Max Intensity:	4483.1 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 0°V
Efficacy:	171.6 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:	9629.8 lumens	Field Lumens:	11708.5 lumens
Beam Efficiency:	80.9%	Field Efficiency:	98.3%
Input Watts (W):	69.4		
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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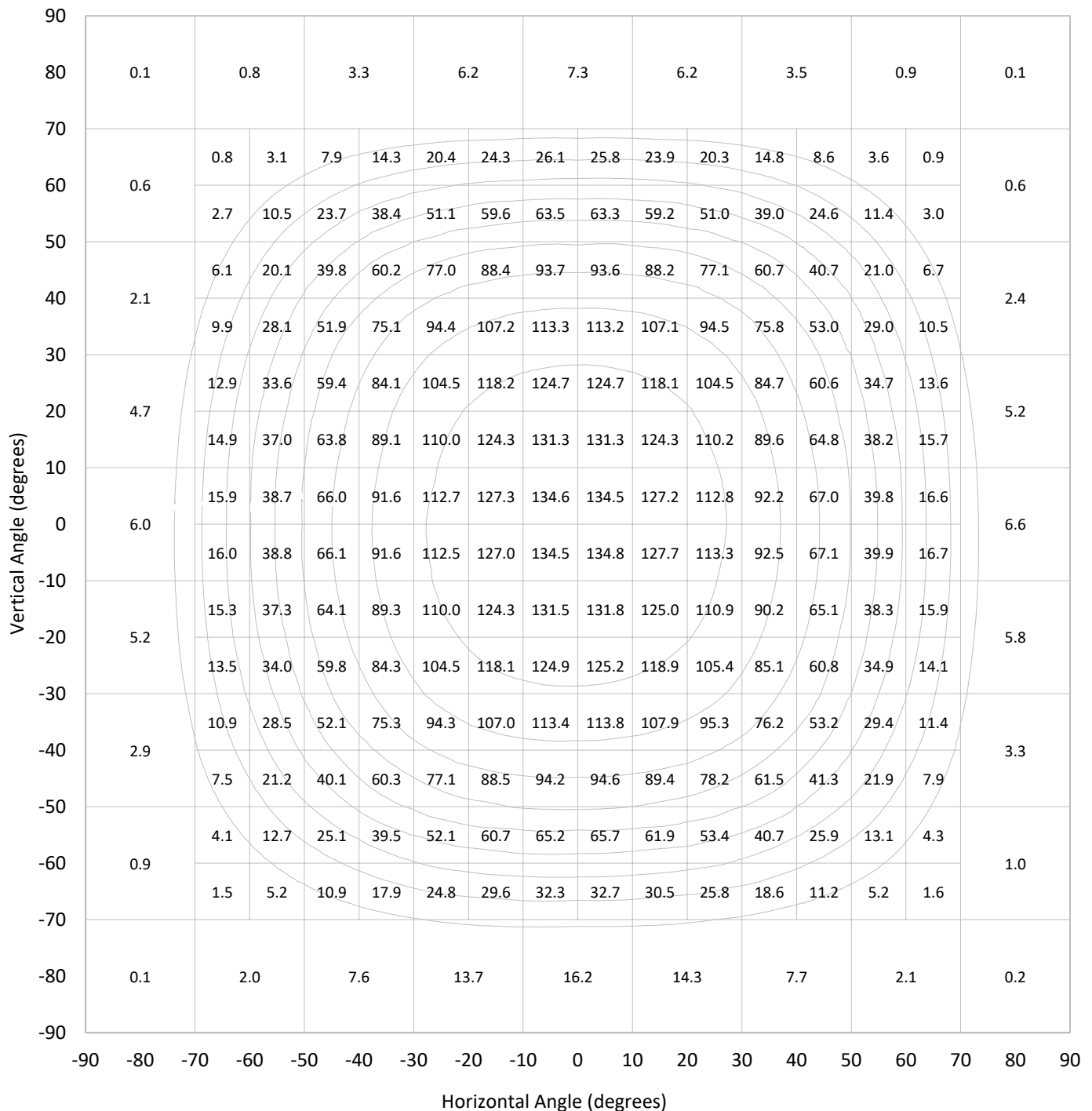
### Iso-Candela Plot





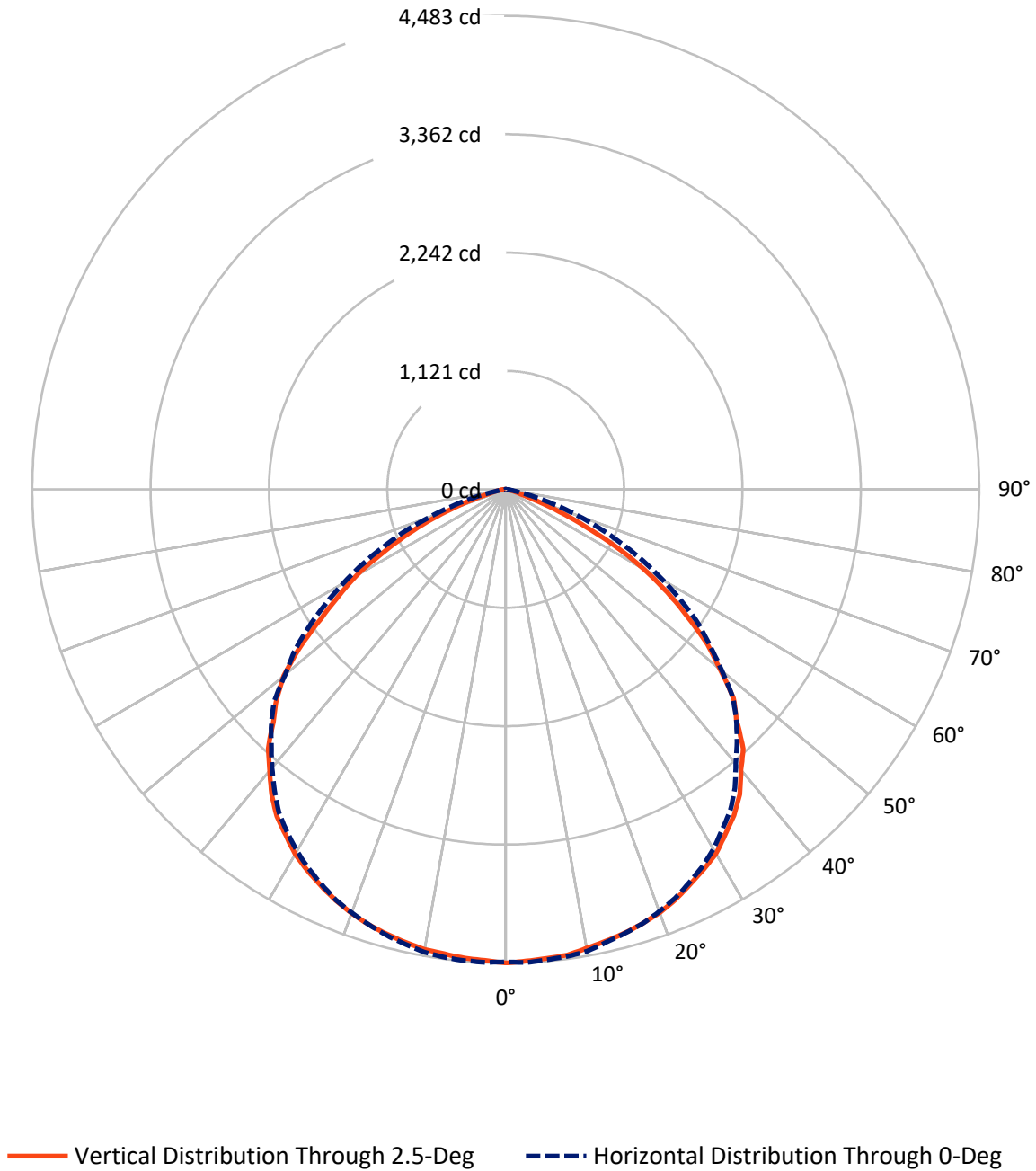
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### Lumen Table



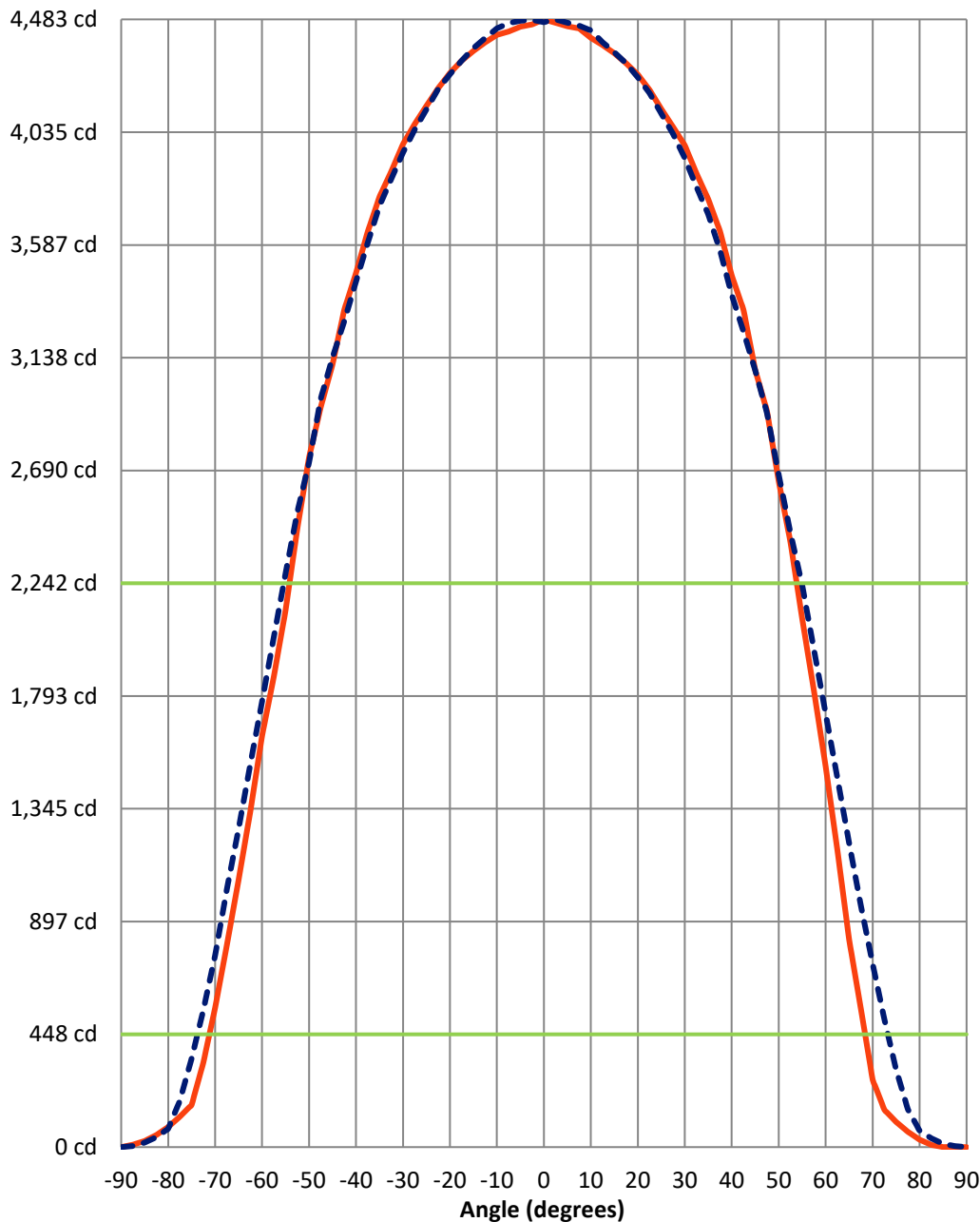
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 110.3°  
 V Angle: 108°  
 Lumens: 9629.8  
 Efficiency: 80.9%

**Field:**  
 H Angle: 147°  
 V Angle: 139.6°  
 Lumens: 11708.5  
 Efficiency: 98.3%

**Spill:**  
 Lumens: 198.2  
 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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
85°	0.0	0.3	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8
82.5°	0.0	0.4	0.7	0.8	1.0	1.1	1.1	1.5	1.9	2.0	2.2
80°	0.0	0.5	0.9	1.2	1.5	1.8	2.6	3.2	3.8	4.5	5.3
77.5°	0.0	0.6	1.1	1.6	2.2	3.2	4.2	5.1	6.1	7.2	8.7
75°	0.0	0.7	1.4	2.0	3.3	4.7	5.9	7.0	8.6	11.4	14.4
72.5°	0.0	0.9	1.7	2.7	4.3	6.4	7.6	9.7	13.4	18.1	23.6
70°	0.0	1.0	2.0	3.6	6.0	8.2	9.8	14.3	20.2	27.4	35.4
67.5°	0.0	1.1	2.3	4.4	7.6	10.0	14.0	20.3	28.9	38.5	48.6
65°	0.0	1.3	2.7	5.5	9.2	12.6	18.8	27.6	38.7	50.1	62.1
62.5°	0.0	1.4	3.2	6.8	10.9	16.0	24.1	36.2	48.7	61.9	78.4
60°	0.0	1.6	3.8	8.2	12.6	19.8	30.9	44.7	58.5	75.3	102.7
57.5°	0.0	1.7	4.3	9.6	15.1	24.2	38.0	53.0	69.9	93.3	142.1
55°	0.0	1.9	4.8	10.9	17.6	28.9	44.9	61.2	83.1	122.4	202.4
52.5°	0.0	2.0	5.4	12.3	20.3	34.4	51.8	71.7	98.1	167.3	274.1
50°	0.0	2.1	6.3	13.6	23.5	39.8	58.7	83.7	124.1	224.0	341.8
47.5°	0.0	2.3	7.2	15.0	26.7	45.1	66.1	98.8	161.6	285.5	417.2
45°	0.0	2.4	8.0	16.7	30.0	50.2	76.3	118.8	210.3	344.1	494.2
42.5°	0.0	2.5	8.9	18.3	33.8	55.4	86.7	142.9	262.9	406.6	568.7
40°	0.0	2.7	9.7	19.8	37.4	60.7	101.3	176.3	313.2	471.0	640.5
37.5°	0.0	2.8	10.5	21.3	40.8	65.7	116.2	213.8	361.6	532.1	708.4
35°	0.0	2.9	11.3	23.1	44.2	72.9	133.8	251.5	409.5	589.8	777.5
32.5°	0.0	3.1	12.1	24.9	47.4	81.1	152.5	288.3	455.0	643.3	847.9
30°	0.0	3.3	12.8	26.7	50.5	89.1	170.7	323.1	498.3	692.7	910.4
27.5°	0.0	3.4	13.5	28.4	53.4	97.8	195.0	357.3	540.3	738.4	968.3
25°	0.0	3.6	14.1	29.9	56.2	108.8	218.8	389.3	578.8	785.3	1025.4
22.5°	0.0	3.7	14.7	31.4	59.0	119.4	240.7	418.0	612.7	830.3	1077.0
20°	0.0	3.8	15.3	32.8	61.6	129.6	261.1	442.3	643.1	870.4	1120.2
17.5°	0.0	3.9	15.8	34.2	64.0	139.2	280.2	463.4	669.9	905.7	1157.6
15°	0.0	4.0	16.3	35.4	66.1	148.6	297.1	481.4	693.7	936.7	1189.6
12.5°	0.0	4.1	16.7	36.5	67.9	157.4	311.8	497.9	714.0	963.3	1216.4
10°	0.0	4.2	17.1	37.5	69.5	165.2	324.3	513.7	730.8	985.5	1237.2
7.5°	0.0	4.2	17.4	38.2	70.9	171.8	334.6	526.3	744.0	1002.8	1252.3
5°	0.0	4.3	17.7	38.8	71.9	177.4	342.7	535.8	753.7	1015.1	1262.0
2.5°	0.0	4.3	17.9	39.3	72.7	181.8	348.7	542.1	759.8	1022.6	1266.3
0°	0.0	4.3	18.1	39.5	73.2	184.9	352.5	545.3	762.4	1025.2	1265.6
-2.5°	0.0	4.4	18.1	39.6	73.6	185.8	353.9	546.9	765.5	1026.9	1268.1
-5°	0.0	4.4	18.1	39.5	73.7	185.3	353.3	545.2	764.9	1023.9	1265.8
-7.5°	0.0	4.4	18.0	39.3	73.4	183.6	350.5	540.5	760.7	1016.1	1258.7
-10°	0.0	4.3	17.9	38.9	72.8	180.5	345.5	532.6	752.6	1003.7	1246.8
-12.5°	0.0	4.3	17.6	38.3	71.8	176.2	338.4	521.7	740.8	986.7	1230.1
-15°	0.0	4.3	17.4	37.6	70.5	170.7	329.2	510.5	725.0	966.3	1208.8
-17.5°	0.0	4.2	17.1	36.7	68.7	163.9	317.8	498.6	705.3	942.2	1182.6
-20°	0.0	4.1	16.7	35.6	66.6	155.9	304.3	484.2	683.5	914.6	1151.8

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Scaled Data Report



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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	4.0	16.2	34.5	64.0	146.7	288.6	467.1	658.5	882.2	1116.3
-25°	0.0	3.9	15.8	33.3	61.0	136.3	270.6	445.5	629.9	845.2	1072.0
-27.5°	0.0	3.8	15.2	32.1	58.4	124.7	250.4	420.3	597.0	804.7	1023.0
-30°	0.0	3.7	14.6	30.6	56.0	114.2	229.1	393.3	560.7	761.1	977.0
-32.5°	0.0	3.5	14.0	29.1	53.3	103.3	212.3	365.3	525.6	714.5	927.3
-35°	0.0	3.3	13.3	27.4	50.4	91.1	194.1	335.3	491.7	667.3	868.1
-37.5°	0.0	3.2	12.6	25.8	47.4	80.2	174.7	302.5	454.6	616.2	799.0
-40°	0.0	3.1	11.8	24.5	44.3	73.5	154.1	266.6	415.5	561.8	728.3
-42.5°	0.0	2.9	11.0	23.1	41.1	66.1	132.3	233.1	374.0	508.3	658.9
-45°	0.0	2.8	10.1	21.5	37.7	59.9	112.0	206.1	329.7	453.4	585.9
-47.5°	0.0	2.7	9.2	19.9	34.7	55.1	90.2	177.9	280.2	399.9	513.0
-50°	0.0	2.5	8.2	18.4	31.5	50.1	77.4	148.4	234.1	343.4	443.7
-52.5°	0.0	2.4	7.2	17.0	28.3	45.2	65.5	118.6	197.2	282.3	382.7
-55°	0.0	2.2	6.6	15.4	25.6	40.1	58.3	89.1	159.8	227.4	320.0
-57.5°	0.0	2.1	6.0	13.8	22.9	35.5	51.6	73.2	122.2	185.6	248.0
-60°	0.0	1.9	5.3	12.2	20.2	30.9	45.0	61.1	88.1	143.4	198.5
-62.5°	0.0	1.7	4.7	10.6	18.0	26.8	38.6	52.7	69.0	101.3	152.5
-65°	0.0	1.5	4.0	8.9	15.7	23.0	32.8	44.6	57.7	75.6	106.8
-67.5°	0.0	1.4	3.4	7.4	13.4	19.6	27.4	37.0	47.8	60.1	76.6
-70°	0.0	1.2	3.0	6.2	11.1	16.7	22.3	29.9	38.6	48.4	59.3
-72.5°	0.0	1.1	2.6	5.0	8.8	13.8	18.7	23.8	30.4	38.1	46.4
-75°	0.0	0.9	2.2	3.8	6.9	10.9	15.2	19.1	23.3	29.0	35.2
-77.5°	0.0	0.8	1.7	3.1	5.0	8.1	11.7	15.0	18.2	21.6	25.6
-80°	0.0	0.6	1.4	2.4	3.6	5.4	8.2	10.8	13.4	16.1	18.7
-82.5°	0.0	0.5	1.0	1.7	2.6	3.6	4.8	6.6	8.6	10.5	12.5
-85°	0.0	0.3	0.7	1.1	1.6	2.2	2.9	3.7	4.5	5.3	6.4
-87.5°	0.0	0.2	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.3	2.7
-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-70W-7050

**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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
85°	0.8	0.6	0.6	0.6	0.7	0.8	0.7	0.5	0.5	0.5	0.4
82.5°	2.7	3.1	3.5	3.7	3.9	4.0	4.0	4.0	4.5	5.1	5.6
80°	6.1	6.9	7.5	7.9	8.5	10.1	11.3	12.5	14.3	15.9	17.4
77.5°	10.2	11.9	14.5	17.2	20.1	22.7	26.0	28.7	32.0	35.9	39.5
75°	18.0	22.3	26.5	32.1	37.1	42.2	47.1	51.8	56.5	61.9	66.5
72.5°	29.4	36.8	44.0	50.8	57.5	64.6	72.8	80.0	86.3	94.2	101.7
70°	44.2	53.1	61.9	72.5	84.9	100.7	113.4	120.3	143.1	167.8	187.2
67.5°	59.1	70.1	87.9	112.3	137.7	164.1	197.0	233.2	274.2	304.0	334.3
65°	76.8	100.5	138.8	178.0	227.5	272.8	327.9	384.9	439.1	480.7	520.4
62.5°	106.0	153.3	217.2	278.7	338.5	408.6	476.2	541.0	603.6	689.3	751.4
60°	155.0	230.2	308.8	388.3	469.3	547.6	624.9	736.5	832.8	922.5	1003.2
57.5°	225.5	314.9	411.0	509.3	598.8	700.7	835.7	940.2	1056.5	1160.3	1240.7
55°	303.8	408.1	520.0	628.6	758.2	897.5	1020.7	1151.3	1260.3	1381.5	1450.0
52.5°	383.9	507.4	627.2	774.8	933.0	1069.0	1212.0	1342.0	1452.1	1595.2	1734.9
50°	473.2	604.6	745.7	929.8	1087.3	1245.0	1390.6	1507.5	1685.1	1810.1	1934.0
47.5°	560.3	700.4	892.3	1060.9	1246.1	1408.4	1547.6	1729.9	1856.4	2020.1	2190.1
45°	645.0	822.2	1005.4	1198.5	1386.9	1548.3	1743.3	1884.9	2063.8	2222.5	2340.4
42.5°	726.7	928.0	1123.1	1325.3	1508.6	1730.2	1888.0	2067.2	2235.6	2369.1	2475.0
40°	826.4	1026.4	1236.7	1445.3	1656.7	1845.9	2043.7	2222.6	2377.1	2492.5	2664.0
37.5°	912.4	1123.8	1343.6	1539.2	1765.8	1972.5	2172.4	2364.0	2489.0	2673.6	2806.4
35°	991.2	1215.5	1442.7	1667.2	1869.8	2079.1	2295.9	2464.7	2653.4	2804.7	2929.3
32.5°	1070.4	1302.7	1514.3	1753.5	1975.0	2189.3	2384.1	2578.5	2783.0	2913.8	3033.3
30°	1141.9	1385.9	1608.9	1835.1	2052.0	2281.6	2462.8	2693.4	2866.1	2994.9	3120.2
27.5°	1208.0	1452.2	1686.5	1916.2	2141.0	2344.4	2567.6	2761.8	2938.0	3061.8	3204.7
25°	1269.4	1502.0	1753.0	1982.1	2213.8	2413.1	2643.5	2837.5	2991.7	3138.4	3280.3
22.5°	1324.1	1562.9	1807.5	2026.5	2264.1	2488.8	2692.0	2903.7	3045.9	3191.3	3342.3
20°	1371.8	1616.0	1861.1	2096.4	2302.4	2551.0	2746.1	2950.9	3099.2	3244.6	3386.6
17.5°	1410.8	1663.2	1912.8	2149.3	2360.4	2589.3	2809.2	2989.9	3136.9	3283.6	3432.8
15°	1442.5	1705.0	1949.6	2187.9	2409.3	2627.7	2861.3	3024.5	3167.9	3310.7	3484.5
12.5°	1470.6	1734.1	1976.7	2222.2	2449.8	2659.2	2900.9	3059.0	3200.8	3342.9	3503.4
10°	1494.1	1753.4	1999.3	2245.0	2482.1	2691.7	2929.3	3087.6	3229.7	3383.8	3529.0
7.5°	1510.3	1766.6	2017.7	2262.7	2504.4	2715.3	2953.1	3109.6	3252.0	3413.3	3554.3
5°	1520.1	1773.9	2028.3	2274.9	2518.2	2727.2	2966.9	3125.9	3269.0	3432.5	3575.6
2.5°	1524.0	1775.7	2031.4	2281.0	2525.1	2729.0	2974.5	3135.9	3279.6	3441.7	3589.3
0°	1522.5	1772.1	2027.9	2280.8	2523.9	2722.4	2975.8	3139.4	3283.2	3441.2	3595.2
-2.5°	1526.1	1777.6	2032.1	2282.3	2527.1	2730.5	2977.8	3139.3	3284.2	3445.5	3595.1
-5°	1524.2	1777.4	2029.7	2277.4	2522.5	2730.3	2973.6	3132.4	3277.7	3439.6	3587.4
-7.5°	1516.0	1770.7	2019.5	2266.4	2511.3	2720.1	2963.6	3118.7	3263.8	3422.9	3572.8
-10°	1501.1	1757.0	2001.6	2249.5	2490.5	2698.5	2942.9	3098.5	3244.6	3394.9	3554.6
-12.5°	1480.0	1735.6	1981.3	2227.3	2457.0	2668.1	2916.7	3073.1	3218.3	3365.4	3531.2
-15°	1455.4	1706.2	1957.4	2194.0	2413.3	2638.2	2877.2	3043.3	3187.1	3337.3	3500.0
-17.5°	1428.1	1672.8	1924.5	2156.4	2367.5	2602.5	2820.8	3011.1	3151.9	3304.8	3450.6
-20°	1390.9	1637.6	1876.6	2103.2	2313.1	2568.2	2757.7	2971.0	3107.6	3254.0	3409.3



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 CATALOG NUMBER: LSF120-XX-PC-70W-7050

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1342.6	1583.5	1821.5	2031.5	2275.0	2499.7	2704.2	2918.0	3063.2	3200.5	3364.0
-25°	1292.6	1520.6	1754.5	1993.7	2223.8	2422.6	2656.5	2847.8	3010.5	3135.2	3279.4
-27.5°	1243.9	1479.1	1702.0	1933.5	2146.3	2358.8	2579.5	2773.0	2948.1	3077.3	3205.8
-30°	1190.4	1413.0	1634.8	1851.6	2055.8	2298.1	2473.9	2705.2	2876.2	3008.3	3129.0
-32.5°	1130.4	1327.6	1535.6	1760.7	1990.7	2192.8	2401.8	2588.2	2794.2	2922.0	3050.3
-35°	1060.3	1257.1	1466.2	1691.6	1888.1	2081.1	2312.2	2480.1	2664.3	2812.9	2939.5
-37.5°	987.2	1182.0	1368.5	1561.6	1779.0	1988.9	2170.8	2391.3	2507.2	2688.7	2812.0
-40°	905.8	1099.7	1277.8	1463.8	1678.9	1863.2	2057.3	2227.4	2403.2	2515.3	2683.0
-42.5°	822.5	1003.9	1186.9	1353.0	1529.0	1749.2	1913.3	2085.5	2247.1	2396.8	2502.6
-45°	738.9	894.8	1089.4	1250.3	1408.1	1575.6	1765.5	1927.3	2092.1	2239.9	2370.7
-47.5°	654.4	799.1	956.3	1143.0	1291.5	1425.6	1588.3	1756.0	1910.5	2067.6	2213.7
-50°	566.2	703.9	836.1	1008.3	1168.4	1287.8	1410.6	1565.3	1720.2	1858.2	2006.9
-52.5°	477.4	603.6	732.3	850.8	1019.7	1144.3	1255.8	1369.8	1508.4	1651.6	1763.2
-55°	402.5	499.4	620.0	737.8	839.5	979.2	1096.1	1197.3	1301.0	1408.5	1546.3
-57.5°	335.2	405.6	501.8	612.6	709.5	804.8	908.5	1023.1	1110.3	1202.6	1298.7
-60°	259.6	334.0	393.7	480.2	576.8	658.8	745.4	827.7	919.3	1001.7	1084.8
-62.5°	199.7	253.6	318.9	369.2	434.2	520.5	593.7	651.9	738.8	803.8	876.4
-65°	150.6	190.6	230.6	287.5	331.7	376.1	442.4	509.9	565.2	609.5	674.2
-67.5°	101.8	138.9	172.0	200.8	239.0	277.5	318.0	354.2	403.0	456.9	502.3
-70°	72.4	90.9	117.8	141.7	165.8	189.2	215.1	237.3	272.3	304.7	332.5
-72.5°	55.2	66.1	78.6	91.0	107.7	121.8	140.4	158.3	176.3	194.5	212.2
-75°	41.8	49.2	56.4	64.8	72.8	81.6	89.0	95.1	100.4	116.0	127.1
-77.5°	30.4	35.5	40.7	46.0	51.7	57.1	63.0	68.3	73.4	78.5	83.3
-80°	21.4	24.1	27.7	31.2	34.8	38.7	42.4	46.1	49.7	53.1	56.3
-82.5°	14.6	16.6	18.5	20.4	22.2	24.0	26.0	28.4	30.5	32.5	34.4
-85°	7.7	9.1	10.3	11.6	12.8	14.0	15.2	16.4	17.3	18.3	19.2
-87.5°	3.2	3.6	4.0	4.4	4.7	5.1	5.4	5.8	6.1	6.4	6.7
-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: P622899 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-70W-7050

**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°	0.7	0.9	1.2	1.3	1.2	1.1	0.9	0.6	0.3	0.3	0.3
82.5°	6.3	6.9	7.2	7.3	7.4	7.5	7.7	8.0	8.3	8.6	8.8
80°	19.0	20.5	21.8	23.1	24.4	25.9	27.0	27.8	28.2	28.8	29.3
77.5°	42.7	45.7	48.2	50.6	52.7	54.5	56.1	57.3	58.3	59.4	60.3
75°	71.2	75.6	79.5	83.4	86.8	89.6	91.9	93.9	95.3	97.2	98.7
72.5°	112.3	120.6	123.2	124.9	129.3	133.3	136.7	139.4	141.4	143.7	145.8
70°	197.0	195.7	198.4	220.0	240.6	247.1	242.7	231.7	235.5	250.3	265.0
67.5°	362.8	388.1	412.7	436.5	458.9	477.4	492.0	502.6	508.9	519.7	533.4
65°	565.5	611.0	641.5	665.2	709.9	742.2	766.0	782.3	792.7	807.5	823.6
62.5°	805.4	868.1	921.9	972.3	1022.5	1055.3	1078.6	1099.5	1106.3	1111.2	1131.0
60°	1075.3	1144.3	1195.0	1239.3	1288.0	1345.1	1388.7	1414.5	1445.1	1458.5	1468.8
57.5°	1317.5	1376.1	1480.6	1545.9	1583.9	1631.9	1677.2	1730.0	1753.5	1758.1	1777.2
55°	1582.8	1666.1	1728.0	1808.3	1862.0	1885.0	1946.7	2000.2	2038.2	2056.0	2069.9
52.5°	1799.2	1909.6	1990.4	2050.1	2133.1	2204.2	2221.3	2254.6	2294.3	2336.5	2372.4
50°	2079.9	2154.8	2243.6	2303.9	2358.6	2445.2	2527.9	2551.2	2562.4	2568.3	2605.2
47.5°	2277.0	2351.8	2421.4	2548.0	2639.6	2691.9	2726.8	2780.7	2826.0	2862.2	2884.2
45°	2434.0	2547.1	2664.6	2742.1	2807.0	2859.9	2920.4	2981.2	3023.8	3037.2	3048.2
42.5°	2627.0	2739.1	2827.2	2906.0	2986.9	3084.3	3144.2	3162.2	3199.3	3254.9	3291.1
40°	2785.9	2895.6	3001.5	3091.9	3187.0	3228.8	3282.2	3341.3	3392.9	3408.8	3411.7
37.5°	2925.5	3063.5	3155.9	3249.5	3303.8	3371.6	3457.7	3485.4	3534.0	3574.2	3597.3
35°	3056.6	3178.0	3296.9	3352.8	3447.6	3512.8	3586.2	3625.2	3652.4	3697.9	3732.3
32.5°	3161.3	3283.6	3371.9	3483.8	3559.0	3631.7	3668.2	3724.1	3778.1	3809.2	3829.4
30°	3254.7	3364.9	3482.0	3576.0	3655.6	3699.5	3777.3	3839.9	3882.0	3904.4	3937.9
27.5°	3337.4	3455.3	3564.5	3656.5	3722.7	3801.3	3863.6	3908.2	3945.4	3986.5	4009.9
25°	3416.3	3532.4	3637.1	3716.4	3802.7	3868.2	3929.8	3982.9	4031.1	4060.6	4100.8
22.5°	3468.0	3600.5	3692.8	3785.8	3865.3	3938.9	3996.2	4053.5	4100.7	4141.4	4159.6
20°	3533.9	3647.2	3750.9	3844.5	3923.0	3991.7	4064.9	4109.8	4152.0	4195.5	4223.1
17.5°	3570.3	3690.0	3795.2	3895.7	3972.4	4041.9	4100.5	4156.5	4204.0	4242.8	4265.2
15°	3599.6	3726.7	3836.6	3925.9	4008.0	4078.1	4138.2	4193.5	4241.3	4275.0	4310.1
12.5°	3631.1	3751.4	3861.9	3959.0	4033.9	4105.4	4170.7	4222.9	4267.3	4313.3	4342.9
10°	3665.0	3770.5	3877.8	3976.4	4059.5	4133.5	4194.2	4246.5	4292.5	4337.1	4366.7
7.5°	3692.8	3804.8	3901.4	3990.5	4069.8	4154.5	4216.3	4269.5	4318.5	4359.5	4390.3
5°	3714.4	3827.5	3929.4	4014.1	4100.0	4176.8	4233.7	4285.5	4340.1	4375.9	4411.2
2.5°	3731.9	3841.3	3945.9	4034.0	4117.7	4193.6	4251.3	4305.3	4356.3	4393.3	4419.0
0°	3742.0	3848.5	3953.3	4044.8	4125.4	4206.3	4264.7	4319.0	4368.9	4409.1	4447.3
-2.5°	3738.2	3848.1	3951.9	4043.5	4126.0	4201.1	4263.9	4319.6	4368.0	4409.9	4442.2
-5°	3726.6	3840.4	3942.2	4031.7	4117.8	4190.6	4257.2	4314.5	4356.4	4394.0	4429.0
-7.5°	3710.3	3824.3	3922.9	4016.0	4097.8	4175.2	4240.9	4296.4	4337.5	4372.7	4403.6
-10°	3687.5	3798.2	3904.9	4002.9	4093.5	4158.5	4220.7	4277.3	4318.0	4351.4	4380.3
-12.5°	3654.8	3778.9	3889.3	3976.3	4060.9	4130.1	4201.4	4248.2	4295.4	4336.7	4361.6
-15°	3625.3	3754.2	3855.9	3945.4	4036.4	4114.0	4167.9	4222.7	4269.2	4299.0	4331.6
-17.5°	3595.8	3711.5	3818.5	3923.7	3989.8	4062.4	4132.4	4187.5	4227.0	4264.1	4286.3
-20°	3545.8	3670.1	3779.7	3863.6	3954.1	4017.4	4077.1	4140.4	4174.9	4214.9	4243.9



REPORT NUMBER: P622899 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3488.8	3621.3	3719.8	3822.1	3889.6	3970.6	4027.0	4073.0	4122.7	4147.8	4180.0
-25°	3435.7	3546.1	3662.0	3750.3	3837.7	3897.6	3968.4	4019.1	4059.4	4084.1	4113.6
-27.5°	3353.9	3478.9	3588.6	3685.1	3765.2	3834.7	3892.6	3940.8	3996.1	4024.1	4039.9
-30°	3265.9	3389.9	3507.6	3611.6	3683.0	3744.0	3811.1	3869.0	3905.0	3929.6	3959.2
-32.5°	3169.5	3303.4	3400.1	3510.2	3597.1	3652.3	3703.1	3762.8	3806.1	3830.5	3851.5
-35°	3074.4	3192.3	3323.7	3385.4	3471.1	3545.9	3613.5	3649.6	3682.4	3724.1	3752.7
-37.5°	2936.7	3080.1	3178.9	3273.6	3338.3	3405.4	3480.0	3520.7	3564.5	3592.5	3614.4
-40°	2790.2	2899.6	3027.5	3122.1	3198.4	3263.4	3315.4	3373.7	3414.0	3435.4	3449.0
-42.5°	2656.8	2748.3	2838.2	2938.3	3024.7	3117.8	3160.4	3193.6	3232.3	3282.9	3311.0
-45°	2465.9	2591.6	2687.3	2767.8	2838.2	2902.3	2963.9	3020.6	3060.3	3077.5	3092.8
-47.5°	2310.8	2392.4	2499.5	2602.6	2672.0	2734.8	2786.9	2830.7	2866.7	2895.5	2916.7
-50°	2130.9	2220.3	2287.9	2362.7	2470.8	2546.1	2575.2	2601.1	2642.5	2696.4	2721.0
-52.5°	1874.7	1962.5	2084.3	2167.5	2220.4	2254.0	2317.4	2378.0	2418.9	2424.4	2439.5
-55°	1633.1	1714.2	1791.7	1853.3	1932.8	2035.3	2069.3	2087.2	2088.7	2091.8	2137.8
-57.5°	1393.1	1494.8	1550.5	1604.1	1663.1	1717.1	1759.6	1787.2	1821.7	1852.1	1876.1
-60°	1166.1	1244.0	1317.2	1386.0	1438.7	1461.6	1482.5	1531.4	1579.8	1607.5	1618.7
-62.5°	949.9	1014.5	1076.6	1134.2	1184.2	1228.9	1261.1	1283.7	1297.5	1307.4	1321.3
-65°	729.1	783.3	841.7	897.1	934.3	967.6	990.8	1005.9	1019.7	1046.8	1068.1
-67.5°	543.0	581.7	617.4	642.6	678.1	713.0	740.5	760.9	774.3	787.7	802.2
-70°	365.5	399.0	428.7	456.4	478.8	500.8	520.8	537.7	547.0	554.4	559.7
-72.5°	232.4	250.6	265.1	280.8	294.2	307.3	318.8	327.5	333.4	338.3	341.6
-75°	138.2	150.4	161.7	171.5	177.6	180.6	180.6	177.9	172.8	172.7	173.3
-77.5°	88.2	92.9	97.5	101.3	104.7	107.7	110.4	112.6	115.0	117.5	119.5
-80°	59.5	62.6	65.4	67.8	70.0	72.2	74.0	75.5	76.6	77.8	78.7
-82.5°	36.3	38.2	40.0	41.4	42.6	43.6	44.6	45.5	46.3	47.0	47.6
-85°	20.0	20.8	21.6	22.1	22.6	23.0	23.4	23.7	24.0	24.2	24.3
-87.5°	7.1	7.5	7.9	8.2	8.5	8.7	9.0	9.1	9.3	9.4	9.5
-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: P622899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-70W-7050

**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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
82.5°	9.0	9.0	8.9	8.8	8.9	8.9	8.8	8.7	8.4	8.1	7.8
80°	29.6	29.7	29.6	29.3	29.5	29.5	29.4	29.0	28.5	27.8	27.3
77.5°	60.8	61.1	61.0	60.6	60.9	61.0	60.7	60.1	59.2	58.0	56.8
75°	99.8	100.3	100.2	99.7	100.1	100.0	99.4	98.2	96.6	94.7	93.1
72.5°	147.3	148.2	148.5	148.1	148.4	148.1	147.1	145.5	143.2	140.8	139.2
70°	272.1	272.9	268.2	259.3	268.3	273.5	274.6	271.0	262.2	253.1	248.9
67.5°	542.8	547.7	547.9	543.2	549.1	550.1	546.2	537.6	524.4	515.1	509.8
65°	831.1	830.4	822.5	808.0	824.2	833.6	835.3	828.4	811.9	794.1	781.3
62.5°	1153.0	1166.7	1172.4	1170.1	1179.6	1182.3	1179.3	1171.9	1155.6	1139.1	1123.4
60°	1482.3	1495.4	1504.5	1506.1	1512.5	1510.2	1501.9	1490.1	1477.4	1456.0	1424.2
57.5°	1800.0	1811.2	1811.6	1804.0	1814.0	1815.7	1805.8	1783.5	1766.6	1759.7	1735.1
55°	2083.3	2093.6	2099.3	2098.9	2100.6	2096.1	2086.6	2073.7	2059.7	2047.6	2025.4
52.5°	2392.5	2400.1	2402.9	2397.8	2404.5	2403.5	2398.3	2384.4	2361.0	2328.1	2269.4
50°	2637.8	2648.8	2642.5	2623.3	2647.3	2658.1	2651.0	2621.4	2582.8	2568.7	2553.6
47.5°	2904.8	2917.9	2924.1	2923.7	2925.7	2921.2	2910.2	2890.6	2866.9	2831.4	2790.8
45°	3070.5	3084.0	3089.1	3086.3	3089.8	3085.7	3073.7	3053.6	3043.2	3033.9	2989.5
42.5°	3316.6	3325.0	3328.7	3326.5	3328.2	3323.2	3312.8	3291.3	3260.4	3203.4	3166.3
40°	3437.5	3453.4	3458.9	3456.4	3465.2	3464.1	3449.1	3419.0	3411.7	3394.9	3358.4
37.5°	3610.6	3631.8	3640.1	3638.5	3640.9	3633.6	3614.0	3602.4	3582.3	3550.9	3491.4
35°	3749.6	3760.2	3767.8	3770.6	3768.0	3760.4	3749.5	3734.3	3702.4	3656.7	3626.9
32.5°	3847.1	3859.8	3867.2	3866.3	3870.4	3868.6	3857.5	3828.6	3805.1	3778.6	3736.4
30°	3968.8	3970.0	3979.3	3987.5	3982.3	3971.7	3960.4	3937.5	3905.1	3880.2	3837.1
27.5°	4028.8	4044.8	4054.4	4054.1	4055.6	4049.5	4033.6	4013.8	3988.2	3970.2	3908.7
25°	4111.0	4120.3	4126.6	4126.7	4126.9	4121.0	4111.8	4102.9	4065.2	4039.7	3987.1
22.5°	4188.8	4201.9	4205.0	4203.0	4202.7	4194.4	4183.0	4159.6	4141.3	4105.8	4058.0
20°	4246.3	4259.2	4260.0	4261.4	4263.9	4263.4	4249.1	4225.2	4194.6	4151.7	4110.4
17.5°	4294.4	4306.3	4311.5	4311.9	4308.8	4304.6	4294.0	4272.9	4240.6	4201.1	4154.3
15°	4333.6	4340.6	4348.2	4351.6	4348.4	4339.1	4329.7	4311.4	4273.3	4233.3	4194.8
12.5°	4363.4	4376.8	4380.1	4380.4	4380.9	4378.0	4362.1	4338.4	4304.5	4267.4	4223.2
10°	4388.5	4401.4	4411.3	4409.3	4409.9	4404.7	4394.9	4364.0	4334.9	4299.6	4252.1
7.5°	4419.2	4429.4	4435.9	4434.8	4447.2	4432.8	4422.7	4399.5	4361.5	4325.4	4276.4
5°	4433.3	4452.5	4457.9	4456.9	4455.9	4449.6	4442.4	4420.0	4386.3	4343.6	4294.5
2.5°	4442.1	4455.4	4464.5	4464.4	4469.6	4464.0	4456.2	4426.0	4394.9	4350.8	4304.8
0°	4468.2	4477.7	4481.2	4472.2	4483.1	4469.9	4458.3	4439.1	4392.2	4352.4	4308.6
-2.5°	4463.4	4469.4	4475.5	4471.5	4463.3	4452.2	4440.5	4412.2	4382.9	4341.4	4299.4
-5°	4446.8	4457.6	4461.0	4452.2	4454.0	4439.0	4433.8	4400.6	4367.3	4327.0	4284.9
-7.5°	4431.4	4436.0	4439.4	4436.5	4434.9	4421.1	4416.8	4387.6	4348.1	4313.0	4266.9
-10°	4405.5	4418.7	4422.8	4430.1	4421.4	4407.7	4392.5	4371.6	4334.7	4296.3	4250.8
-12.5°	4388.1	4393.0	4397.5	4400.8	4391.8	4381.5	4370.3	4344.1	4313.3	4272.9	4229.5
-15°	4355.5	4361.4	4363.3	4358.7	4357.6	4352.7	4333.0	4306.9	4280.9	4239.8	4192.3
-17.5°	4307.3	4321.7	4325.2	4322.9	4319.0	4309.4	4295.2	4271.1	4239.4	4198.8	4156.3
-20°	4258.3	4270.5	4277.6	4273.3	4269.8	4258.8	4244.2	4223.2	4190.8	4151.3	4115.2



REPORT NUMBER: P622899 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-70W-7050

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	4200.9	4206.9	4212.9	4209.4	4209.5	4202.2	4189.5	4164.2	4133.0	4098.1	4048.1
-25°	4124.4	4141.1	4144.4	4137.0	4139.4	4132.0	4113.2	4096.3	4060.8	4027.3	3983.9
-27.5°	4057.4	4069.8	4071.7	4067.7	4067.2	4059.5	4042.4	4018.4	3992.5	3960.0	3911.1
-30°	3979.3	3987.0	3993.4	3994.6	3986.9	3974.0	3959.4	3935.6	3906.0	3875.0	3836.5
-32.5°	3872.4	3882.7	3884.4	3879.4	3878.6	3871.5	3856.0	3829.9	3807.1	3776.4	3728.3
-35°	3765.2	3775.2	3781.5	3783.0	3777.8	3768.7	3757.6	3739.1	3703.4	3656.6	3620.3
-37.5°	3628.7	3643.1	3645.8	3638.6	3639.5	3629.3	3607.0	3589.6	3566.4	3529.8	3478.6
-40°	3468.7	3479.0	3480.2	3473.5	3475.2	3468.7	3452.0	3425.1	3407.4	3382.5	3339.5
-42.5°	3328.2	3333.6	3334.2	3328.3	3328.5	3322.0	3310.1	3283.0	3247.7	3199.9	3165.9
-45°	3107.0	3115.8	3118.5	3114.2	3112.0	3102.5	3086.1	3063.5	3050.0	3030.0	2979.3
-47.5°	2933.2	2943.6	2947.0	2943.0	2942.4	2934.4	2918.8	2897.8	2872.5	2839.7	2798.7
-50°	2732.8	2743.1	2747.5	2741.7	2741.8	2730.8	2712.2	2689.7	2657.2	2607.4	2569.8
-52.5°	2455.9	2464.0	2464.3	2457.6	2457.7	2450.6	2435.7	2412.1	2390.2	2377.2	2324.1
-55°	2159.4	2160.0	2144.7	2118.7	2134.2	2140.3	2132.9	2108.3	2064.3	2058.5	2047.6
-57.5°	1883.1	1884.2	1879.1	1866.3	1870.4	1865.5	1851.6	1830.4	1803.9	1782.2	1759.4
-60°	1630.1	1638.8	1642.0	1636.9	1635.1	1624.6	1607.8	1587.2	1565.1	1533.5	1491.5
-62.5°	1331.7	1338.0	1339.5	1335.2	1334.7	1328.5	1317.3	1301.7	1282.5	1268.8	1251.6
-65°	1077.7	1077.2	1068.5	1053.4	1062.7	1065.7	1060.4	1045.1	1018.0	985.7	968.7
-67.5°	810.2	812.0	808.6	801.0	803.1	801.3	794.9	783.0	764.0	741.7	723.7
-70°	562.7	562.8	559.8	553.1	553.8	551.3	546.3	539.6	531.8	524.0	512.4
-72.5°	342.7	341.3	337.4	330.8	336.6	339.6	340.0	337.7	332.7	324.4	314.0
-75°	173.0	172.1	170.4	168.1	168.1	167.5	166.4	164.7	162.5	161.5	166.1
-77.5°	120.7	121.4	121.5	121.1	121.1	120.6	119.7	118.4	116.6	114.4	112.3
-80°	79.4	79.8	80.0	79.9	79.9	79.7	79.2	78.4	77.4	76.1	74.7
-82.5°	48.0	48.2	48.3	48.2	48.2	48.0	47.7	47.2	46.6	45.8	44.9
-85°	24.4	24.5	24.5	24.4	24.4	24.3	24.1	23.9	23.7	23.4	23.0
-87.5°	9.6	9.6	9.7	9.7	9.6	9.5	9.4	9.3	9.1	8.9	8.7
-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: P622899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-70W-7050

**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	0.3	0.3	0.3
85°	0.9	1.1	1.2	1.2	1.2	0.9	0.7	0.4	0.5	0.5	0.5
82.5°	7.4	7.2	7.1	7.0	6.9	6.8	6.6	6.3	6.0	5.5	5.0
80°	26.5	25.4	23.9	22.5	21.1	19.7	18.1	16.4	14.9	13.3	11.5
77.5°	55.3	53.5	51.5	49.3	46.9	44.3	41.4	38.2	34.6	30.6	27.2
75°	91.0	88.5	85.5	81.8	77.6	73.3	68.6	64.0	59.7	55.0	50.2
72.5°	136.2	131.7	127.0	122.4	119.8	116.0	107.1	96.5	89.2	81.9	75.4
70°	250.5	247.8	238.7	219.7	194.9	184.1	183.6	175.6	156.0	132.1	109.9
67.5°	496.7	479.4	457.7	431.0	400.7	370.5	341.2	303.3	258.6	241.4	213.0
65°	763.1	737.1	719.3	699.7	650.9	597.0	552.3	504.4	453.6	398.0	331.9
62.5°	1098.6	1064.6	1019.7	960.5	901.9	848.3	801.1	728.4	652.0	586.8	509.8
60°	1398.8	1358.6	1299.8	1263.6	1206.1	1130.8	1041.2	966.3	893.5	792.7	685.0
57.5°	1687.9	1638.6	1577.9	1538.7	1473.2	1368.5	1306.8	1218.0	1114.4	1014.9	901.9
55°	1971.8	1891.8	1853.9	1798.0	1716.6	1633.8	1556.6	1430.0	1343.1	1226.6	1102.5
52.5°	2217.0	2197.5	2153.2	2072.6	1973.5	1898.3	1781.4	1684.5	1559.9	1422.9	1295.5
50°	2536.8	2463.8	2366.7	2290.7	2236.8	2157.6	2044.1	1922.1	1770.2	1642.7	1488.1
47.5°	2732.2	2690.6	2636.8	2557.7	2421.8	2333.6	2264.9	2151.7	1998.6	1816.2	1687.6
45°	2921.7	2856.9	2796.8	2724.0	2655.6	2549.6	2416.2	2319.7	2184.0	2028.6	1834.1
42.5°	3146.3	3098.9	2984.0	2900.5	2792.5	2710.9	2622.9	2457.8	2345.0	2182.4	2028.2
40°	3281.9	3230.0	3181.6	3091.4	2995.1	2856.9	2741.5	2634.1	2471.7	2350.3	2155.2
37.5°	3454.3	3387.1	3304.1	3236.4	3147.0	3047.1	2897.0	2756.5	2624.4	2463.8	2332.7
35°	3592.1	3508.0	3442.0	3356.0	3278.0	3160.0	3035.8	2896.1	2751.9	2580.8	2437.1
32.5°	3672.0	3621.9	3562.2	3469.0	3366.7	3261.6	3133.9	3005.7	2874.8	2722.6	2511.5
30°	3780.2	3717.6	3638.9	3574.1	3465.7	3349.4	3225.8	3091.4	2958.4	2819.6	2626.6
27.5°	3865.4	3799.7	3737.6	3639.0	3552.2	3441.7	3308.2	3168.2	3037.2	2889.1	2707.7
25°	3938.2	3874.1	3803.2	3718.8	3621.9	3511.0	3398.4	3233.9	3090.1	2954.1	2776.0
22.5°	4003.8	3944.1	3859.2	3784.7	3687.0	3583.8	3455.8	3312.7	3159.6	3015.7	2842.9
20°	4064.3	3990.3	3917.8	3831.6	3739.1	3635.6	3506.2	3366.1	3203.5	3058.5	2903.6
17.5°	4098.1	4038.1	3959.1	3873.3	3788.6	3669.9	3556.7	3406.0	3252.6	3103.8	2951.1
15°	4137.0	4068.0	3997.1	3922.9	3814.8	3714.3	3587.9	3451.0	3284.9	3135.4	2985.6
12.5°	4172.1	4104.8	4030.0	3940.7	3852.4	3745.7	3610.1	3484.2	3310.7	3163.9	3019.5
10°	4200.4	4132.7	4057.4	3977.1	3882.7	3758.2	3638.1	3512.4	3342.4	3194.6	3046.5
7.5°	4220.5	4160.1	4083.1	3996.9	3902.4	3784.4	3668.0	3535.6	3371.1	3218.3	3067.1
5°	4236.6	4178.8	4095.5	4014.5	3916.1	3804.4	3691.0	3552.2	3387.6	3233.4	3080.9
2.5°	4247.6	4186.6	4104.8	4024.8	3926.4	3815.5	3704.5	3562.0	3392.7	3241.1	3087.8
0°	4252.7	4189.8	4108.7	4027.7	3931.6	3817.0	3707.6	3564.8	3388.2	3242.0	3087.6
-2.5°	4242.2	4178.9	4100.2	4021.6	3923.8	3815.8	3704.0	3564.2	3396.0	3243.2	3090.0
-5°	4223.9	4162.2	4085.6	4009.4	3909.0	3805.5	3692.0	3556.3	3395.0	3237.5	3085.6
-7.5°	4211.6	4144.7	4068.1	3986.8	3887.0	3786.0	3674.5	3541.7	3384.3	3224.5	3074.6
-10°	4194.2	4128.2	4050.4	3967.0	3873.0	3758.6	3651.5	3523.2	3363.1	3205.4	3057.5
-12.5°	4171.8	4105.7	4028.5	3941.3	3855.9	3741.8	3620.2	3498.9	3328.5	3181.6	3031.9
-15°	4139.8	4074.0	3998.3	3914.9	3818.5	3717.8	3591.8	3464.7	3295.0	3151.7	2997.1
-17.5°	4105.1	4034.1	3962.0	3883.6	3780.0	3677.4	3561.2	3420.0	3263.7	3118.6	2961.5
-20°	4055.3	3984.8	3916.9	3830.1	3743.3	3630.3	3514.0	3369.3	3230.1	3076.1	2918.4



REPORT NUMBER: P622899 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-70W-7050

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3992.4	3935.1	3861.1	3784.4	3683.3	3584.1	3457.2	3320.3	3173.6	3024.9	2861.9
-25°	3932.4	3873.0	3808.3	3720.7	3626.0	3515.1	3394.5	3267.3	3110.7	2965.0	2787.6
-27.5°	3862.7	3809.0	3738.4	3650.7	3554.8	3442.2	3321.8	3182.8	3045.1	2901.2	2724.2
-30°	3779.1	3716.7	3652.9	3574.7	3470.7	3353.3	3238.3	3100.4	2967.8	2827.1	2653.2
-32.5°	3675.6	3625.2	3554.2	3475.3	3366.7	3269.2	3137.1	3010.5	2884.9	2745.8	2528.7
-35°	3573.2	3500.9	3438.0	3348.8	3282.4	3154.5	3036.0	2911.0	2769.4	2600.6	2432.4
-37.5°	3438.2	3369.6	3296.3	3236.2	3139.2	3041.6	2917.7	2774.8	2631.2	2459.0	2330.1
-40°	3275.6	3229.7	3170.2	3078.5	2991.7	2897.5	2757.2	2626.3	2465.4	2348.9	2173.5
-42.5°	3137.1	3068.1	2973.6	2909.4	2822.9	2712.9	2594.2	2451.5	2345.6	2196.3	2040.0
-45°	2918.1	2864.4	2808.5	2730.9	2646.4	2533.8	2415.5	2322.3	2196.1	2048.3	1846.9
-47.5°	2747.2	2695.6	2638.3	2556.8	2441.3	2341.7	2269.1	2171.7	2025.6	1830.5	1701.7
-50°	2544.5	2498.6	2406.5	2305.6	2245.3	2172.1	2080.4	1952.8	1789.3	1672.4	1495.9
-52.5°	2257.7	2212.0	2169.7	2100.9	2016.2	1928.3	1808.4	1715.1	1604.5	1446.6	1333.2
-55°	2007.7	1946.6	1884.0	1831.5	1755.9	1660.0	1595.9	1475.4	1365.7	1259.9	1155.9
-57.5°	1740.4	1697.2	1609.9	1555.6	1510.4	1439.8	1349.0	1254.7	1157.6	1085.5	989.4
-60°	1450.9	1428.5	1404.1	1344.8	1272.8	1196.5	1116.7	1059.0	980.5	890.6	805.8
-62.5°	1224.3	1186.6	1135.5	1078.8	1036.4	993.4	911.0	845.8	776.8	701.7	649.7
-65°	955.3	938.9	893.6	834.5	802.9	761.5	702.9	651.1	608.4	539.8	484.2
-67.5°	705.3	685.6	659.2	625.0	584.4	549.2	512.0	471.9	431.8	397.4	359.0
-70°	493.3	472.1	449.4	428.3	407.3	381.4	353.6	326.3	295.3	271.3	248.9
-72.5°	301.2	286.1	272.2	258.7	243.5	234.7	225.7	214.1	200.3	183.9	163.9
-75°	168.8	169.2	167.1	162.3	155.5	148.5	139.5	129.6	118.1	101.5	95.3
-77.5°	109.9	107.2	103.9	100.2	96.3	92.0	87.2	82.2	77.1	71.7	66.3
-80°	73.1	71.2	69.0	66.7	64.2	61.2	58.0	54.6	51.3	47.8	44.0
-82.5°	43.8	42.7	41.5	40.2	38.7	36.8	34.8	32.7	30.7	28.7	26.5
-85°	22.6	22.2	21.7	21.1	20.4	19.6	18.8	17.9	16.9	16.0	14.9
-87.5°	8.5	8.2	7.9	7.5	7.1	6.7	6.2	5.8	5.5	5.2	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: P622899 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-70W-7050

**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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
85°	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6
82.5°	4.6	4.2	3.8	3.5	3.1	2.8	2.4	2.0	1.8	1.6	1.3
80°	10.8	10.0	8.7	7.7	7.0	6.3	5.5	4.7	4.0	3.3	2.7
77.5°	24.5	21.2	18.7	15.8	13.4	10.8	9.1	7.8	6.4	5.4	4.4
75°	45.3	40.2	35.0	30.1	24.6	20.6	16.5	13.0	10.2	7.6	6.2
72.5°	68.5	61.6	54.9	48.2	41.5	34.4	26.9	21.5	16.5	12.0	8.5
70°	103.5	91.9	77.4	67.7	58.6	50.1	41.3	32.4	24.8	18.4	12.8
67.5°	175.0	145.4	122.5	100.2	79.1	66.1	55.7	45.4	35.1	26.0	18.5
65°	282.8	244.1	196.4	155.6	121.8	89.6	71.5	58.5	46.6	34.9	24.9
62.5°	431.3	351.9	296.4	241.5	186.6	133.7	94.3	73.0	58.2	45.0	32.0
60°	596.9	506.8	415.8	335.0	269.3	198.0	134.9	92.0	70.8	54.9	40.6
57.5°	769.8	659.8	557.9	456.0	356.8	276.2	194.8	123.3	85.1	65.7	49.0
55°	985.0	830.6	699.2	584.9	469.5	360.1	265.7	175.6	107.2	77.3	57.3
52.5°	1165.2	1038.9	859.0	712.3	585.0	459.5	343.3	237.4	144.8	89.5	66.9
50°	1333.8	1197.3	1059.5	853.6	696.2	563.0	427.5	305.3	194.5	108.4	77.2
47.5°	1526.8	1344.4	1198.9	1022.4	817.7	659.3	519.1	377.9	249.1	139.5	89.0
45°	1703.0	1532.1	1321.6	1152.5	952.7	760.2	607.1	454.6	308.5	182.1	104.0
42.5°	1829.2	1688.4	1470.2	1266.5	1080.8	868.5	684.9	531.6	371.3	229.4	122.1
40°	2004.4	1793.3	1610.2	1371.3	1182.4	979.0	771.8	605.3	436.5	276.1	150.5
37.5°	2107.2	1921.3	1722.2	1506.7	1279.7	1075.2	860.5	668.9	497.5	323.4	183.7
35°	2239.6	2029.6	1801.5	1604.8	1366.2	1157.6	945.5	732.9	554.9	371.4	217.6
32.5°	2351.3	2105.8	1923.9	1703.4	1472.0	1243.3	1020.8	800.3	608.4	419.2	251.2
30°	2415.5	2231.6	2000.9	1767.1	1544.2	1309.3	1084.5	864.4	655.4	463.6	283.3
27.5°	2489.8	2304.6	2060.1	1853.6	1620.1	1378.0	1147.3	922.7	698.6	504.5	315.3
25°	2582.9	2353.5	2141.9	1926.9	1693.0	1450.1	1209.8	973.8	743.7	541.8	344.7
22.5°	2641.1	2411.2	2216.6	1975.0	1738.0	1500.0	1260.8	1020.0	786.9	575.6	373.0
20°	2683.0	2478.5	2253.9	2018.9	1792.9	1545.1	1303.6	1061.8	825.3	605.8	400.2
17.5°	2721.8	2536.2	2295.0	2065.1	1845.4	1595.7	1344.3	1099.5	858.3	632.4	424.4
15°	2785.4	2577.6	2330.1	2117.0	1884.7	1636.5	1382.1	1132.6	886.2	656.1	445.5
12.5°	2831.9	2609.3	2371.4	2154.7	1918.4	1665.0	1412.7	1159.3	909.0	676.7	463.5
10°	2868.5	2635.8	2400.3	2181.6	1948.3	1687.0	1435.8	1180.0	927.9	694.0	478.4
7.5°	2897.2	2655.3	2421.5	2204.5	1965.1	1704.4	1451.6	1194.9	942.6	708.0	490.3
5°	2911.1	2668.1	2437.8	2222.0	1974.7	1716.5	1462.2	1204.3	952.7	718.5	499.2
2.5°	2918.4	2674.1	2444.8	2232.3	1979.0	1722.8	1467.3	1208.5	958.3	725.4	505.1
0°	2917.9	2673.2	2441.8	2233.8	1977.9	1722.5	1466.9	1207.8	959.4	728.7	508.0
-2.5°	2920.0	2677.0	2448.0	2234.3	1981.9	1725.4	1470.5	1212.5	962.9	730.9	510.0
-5°	2914.3	2673.6	2444.8	2226.1	1980.3	1721.7	1468.3	1212.5	961.9	729.3	509.0
-7.5°	2901.8	2662.8	2433.7	2211.0	1972.7	1711.9	1460.1	1207.8	956.1	724.0	505.2
-10°	2877.6	2644.0	2416.8	2190.6	1957.2	1696.5	1446.0	1198.3	945.4	715.1	498.3
-12.5°	2849.1	2617.9	2389.0	2166.6	1930.6	1676.0	1427.5	1183.8	930.6	702.6	488.5
-15°	2808.7	2588.1	2346.7	2135.0	1900.8	1650.6	1404.4	1164.4	913.3	686.6	475.9
-17.5°	2743.4	2552.3	2312.0	2091.6	1865.5	1618.4	1376.2	1137.5	891.5	667.1	460.4
-20°	2698.3	2509.6	2271.2	2045.9	1815.8	1579.0	1341.1	1105.1	865.3	646.0	442.2



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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°	2656.3	2435.4	2234.6	1996.0	1762.3	1531.3	1300.5	1068.4	834.7	621.8	421.1
-25°	2605.7	2366.3	2166.8	1949.9	1715.5	1477.7	1256.5	1024.0	800.3	594.3	399.7
-27.5°	2516.8	2313.2	2087.8	1876.1	1651.4	1425.9	1208.2	973.5	762.6	563.3	377.8
-30°	2420.4	2243.7	2019.0	1787.9	1577.2	1364.6	1154.1	925.1	722.0	529.0	353.9
-32.5°	2352.1	2131.3	1935.6	1714.9	1489.7	1296.2	1092.0	872.5	678.9	492.1	326.6
-35°	2249.6	2044.0	1817.9	1629.1	1418.0	1222.6	1014.5	818.8	633.7	452.8	296.4
-37.5°	2126.2	1926.0	1724.9	1509.3	1333.7	1144.0	938.9	758.0	584.8	414.7	266.2
-40°	2003.0	1796.4	1617.2	1423.7	1243.0	1054.4	863.2	692.8	532.1	378.7	237.3
-42.5°	1838.2	1686.6	1479.7	1321.2	1147.2	958.4	786.7	628.0	475.6	337.4	209.6
-45°	1706.7	1513.3	1377.2	1212.5	1039.4	864.2	701.5	559.5	420.9	291.8	185.3
-47.5°	1523.7	1396.1	1255.0	1097.0	925.7	769.4	625.4	490.6	368.2	253.1	160.1
-50°	1378.1	1250.4	1125.0	968.2	817.3	668.3	545.1	423.4	311.8	214.7	133.7
-52.5°	1215.9	1108.2	976.1	841.3	693.9	581.9	467.4	356.4	258.6	180.8	106.7
-55°	1064.1	943.9	828.8	702.7	598.5	492.4	387.2	295.7	211.3	146.3	80.0
-57.5°	886.6	785.7	679.5	592.7	498.9	403.6	316.3	232.7	172.6	111.7	67.8
-60°	721.1	637.3	557.0	483.2	400.8	320.4	246.5	187.1	133.4	80.8	57.5
-62.5°	569.5	502.4	444.5	371.0	311.7	244.8	190.8	144.2	94.4	65.0	49.1
-65°	436.8	387.0	322.6	286.5	225.7	184.6	144.5	101.3	71.2	54.2	41.2
-67.5°	308.7	279.3	240.2	198.8	169.2	135.6	98.5	72.8	56.6	44.5	33.9
-70°	221.7	191.7	165.9	140.7	116.9	89.3	69.0	56.0	45.2	35.6	27.3
-72.5°	142.9	122.1	107.2	90.4	76.1	62.8	52.1	43.3	35.1	27.8	22.3
-75°	88.2	80.1	70.2	61.9	53.5	46.3	39.0	32.5	26.7	21.8	17.5
-77.5°	60.7	54.7	49.1	43.4	38.1	33.0	28.0	23.6	19.9	16.4	12.8
-80°	40.2	36.4	32.5	29.0	25.4	21.9	19.4	16.8	14.0	11.1	8.0
-82.5°	24.1	22.1	20.3	18.5	16.7	14.8	12.7	10.5	8.4	6.7	5.1
-85°	13.8	12.6	11.4	10.2	9.0	7.7	6.4	5.1	4.2	3.6	2.9
-87.5°	4.5	4.2	3.8	3.5	3.2	2.9	2.5	2.1	1.8	1.5	1.3
-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°	0.2	0.2	0.2	0.1	0.1	0.1	0.0
85°	0.5	0.4	0.3	0.3	0.2	0.1	0.0
82.5°	0.9	0.9	0.8	0.4	0.3	0.2	0.0
80°	2.2	1.6	1.3	0.9	0.4	0.2	0.0
77.5°	3.6	2.8	2.0	1.4	0.6	0.3	0.0
75°	5.0	4.0	2.9	1.9	1.0	0.4	0.0
72.5°	6.5	5.2	3.9	2.6	1.4	0.4	0.0
70°	8.4	6.5	4.8	3.3	1.8	0.5	0.0
67.5°	12.3	8.1	5.8	4.0	2.2	0.5	0.0
65°	16.7	10.5	6.9	4.7	2.6	0.7	0.0
62.5°	21.8	13.7	8.4	5.4	3.1	0.9	0.0
60°	27.7	17.4	9.8	6.0	3.5	1.1	0.0
57.5°	33.7	21.5	12.3	6.7	4.0	1.3	0.0
55°	40.7	25.8	14.8	7.9	4.4	1.5	0.0
52.5°	47.6	30.7	17.4	9.0	4.8	1.7	0.0
50°	54.2	35.5	20.4	10.1	5.2	1.9	0.0
47.5°	61.0	40.8	23.4	11.4	5.6	2.1	0.0
45°	69.6	45.9	26.4	13.1	6.0	2.2	0.0
42.5°	78.2	50.9	29.9	14.8	6.4	2.4	0.0
40°	89.1	55.6	33.3	16.3	6.7	2.6	0.0
37.5°	100.1	60.1	36.6	17.9	7.1	2.7	0.0
35°	113.7	65.9	39.9	19.6	7.6	2.9	0.0
32.5°	128.6	72.4	43.1	21.3	8.2	3.1	0.0
30°	143.2	78.6	46.1	22.9	8.8	3.2	0.0
27.5°	164.6	85.1	48.9	24.4	9.4	3.3	0.0
25°	185.7	93.0	51.5	25.8	9.9	3.5	0.0
22.5°	205.3	100.5	53.9	27.1	10.4	3.6	0.0
20°	223.7	107.7	56.1	28.4	10.9	3.7	0.0
17.5°	241.3	114.5	58.0	29.8	11.3	3.8	0.0
15°	256.9	121.5	59.8	31.0	11.7	3.9	0.0
12.5°	270.5	128.6	61.3	32.1	12.0	3.9	0.0
10°	282.0	135.0	62.5	33.0	12.3	4.0	0.0
7.5°	291.6	140.4	63.6	33.8	12.5	4.1	0.0
5°	299.0	144.8	64.4	34.4	12.7	4.1	0.0
2.5°	304.5	148.2	65.0	34.8	12.9	4.1	0.0
0°	307.9	150.5	65.3	35.0	13.0	4.1	0.0
-2.5°	309.8	152.0	65.7	35.1	13.1	4.2	0.0
-5°	309.7	152.3	65.8	35.1	13.1	4.2	0.0
-7.5°	307.4	151.4	65.6	34.8	13.1	4.1	0.0
-10°	303.0	149.3	65.2	34.4	13.0	4.1	0.0
-12.5°	296.4	146.1	64.5	33.8	12.9	4.1	0.0
-15°	287.7	141.7	63.5	33.1	12.7	4.0	0.0
-17.5°	276.8	136.8	62.2	32.1	12.5	4.0	0.0
-20°	263.6	131.4	60.6	31.1	12.2	3.9	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	249.7	124.9	58.6	30.0	11.9	3.8	0.0
-25°	234.7	117.2	56.3	29.0	11.5	3.7	0.0
-27.5°	218.0	108.5	54.1	27.8	11.0	3.6	0.0
-30°	200.4	100.1	51.7	26.5	10.5	3.5	0.0
-32.5°	185.7	91.1	49.1	25.1	10.0	3.4	0.0
-35°	169.7	81.0	46.3	23.6	9.4	3.2	0.0
-37.5°	153.0	72.0	43.3	22.1	8.8	3.1	0.0
-40°	136.0	66.8	40.3	20.7	8.5	2.9	0.0
-42.5°	117.7	61.1	37.1	19.3	8.1	2.7	0.0
-45°	99.9	55.8	33.7	17.9	7.6	2.6	0.0
-47.5°	80.7	51.1	30.7	16.3	7.1	2.4	0.0
-50°	70.4	46.2	27.8	14.9	6.6	2.2	0.0
-52.5°	61.3	41.3	24.8	13.5	6.1	2.0	0.0
-55°	54.5	36.3	22.3	12.1	5.6	1.8	0.0
-57.5°	47.8	31.9	19.9	10.5	5.1	1.6	0.0
-60°	41.4	27.6	17.5	9.4	4.6	1.3	0.0
-62.5°	35.2	23.9	15.2	8.2	4.1	1.1	0.0
-65°	29.7	20.7	12.9	7.0	3.6	0.9	0.0
-67.5°	24.9	17.5	10.7	6.0	3.1	0.7	0.0
-70°	21.0	14.4	8.8	5.1	2.6	0.6	0.0
-72.5°	17.0	11.3	6.7	4.2	2.1	0.6	0.0
-75°	13.0	8.4	5.5	3.3	1.6	0.5	0.0
-77.5°	8.9	6.1	4.1	2.6	1.1	0.4	0.0
-80°	6.0	4.3	3.0	1.8	0.8	0.3	0.0
-82.5°	3.8	2.9	2.0	1.1	0.6	0.2	0.0
-85°	2.3	1.6	1.1	0.7	0.4	0.2	0.0
-87.5°	1.0	0.8	0.5	0.4	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)