

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: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **LSF120-XX-PC-90W-7030**

Issue Date: 10/4/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622900 (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-90W-7030  
Description: Flood light with selectable wattage and CCT  
Light Source: (1) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

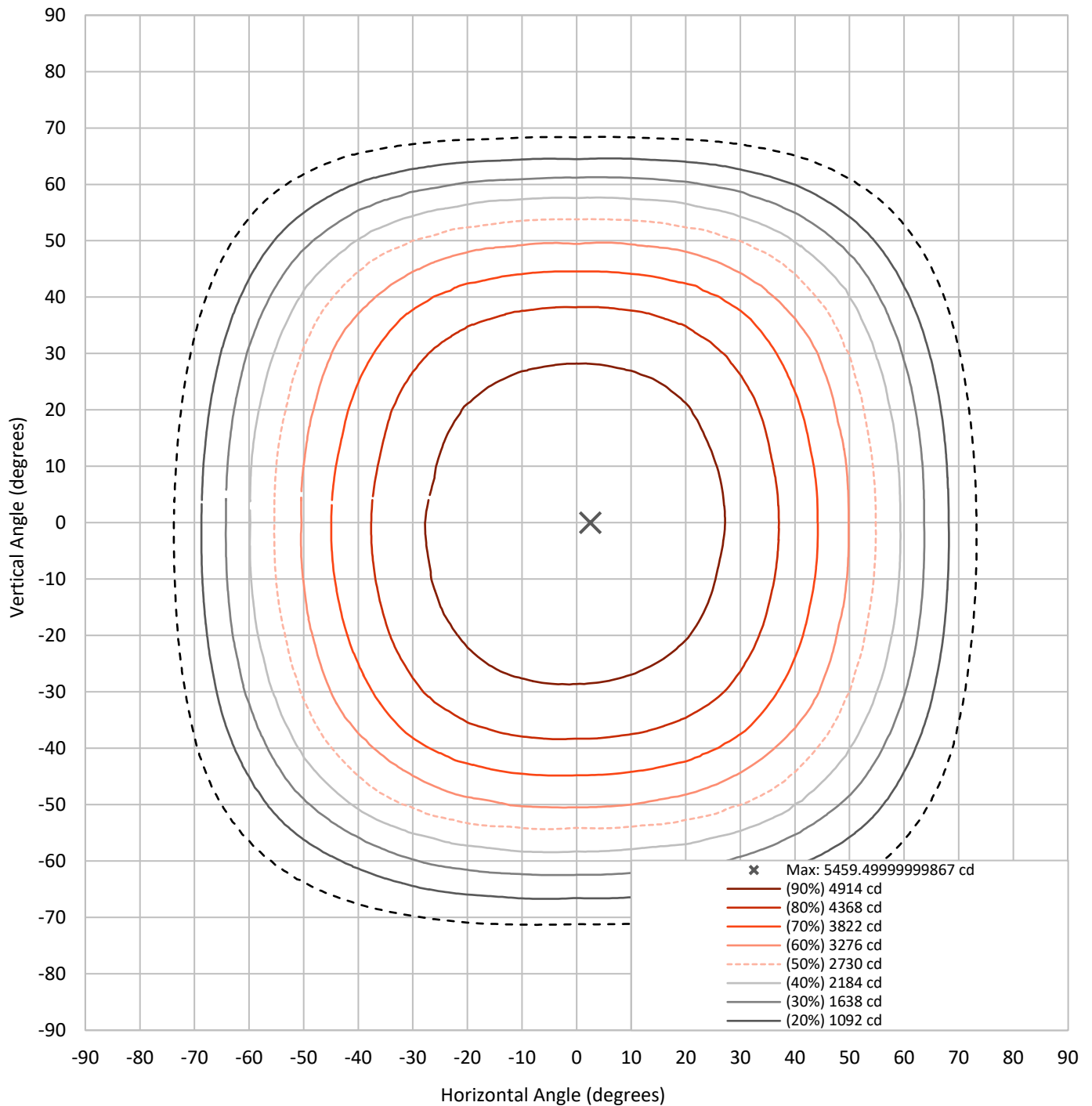
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14499.8 lumens	Max Intensity:	5459.5 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 0°V
Efficacy:	159.9 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:	11727 lumens	Field Lumens:	14258.9 lumens
Beam Efficiency:	80.9%	Field Efficiency:	98.3%
Input Watts (W):	90.7		
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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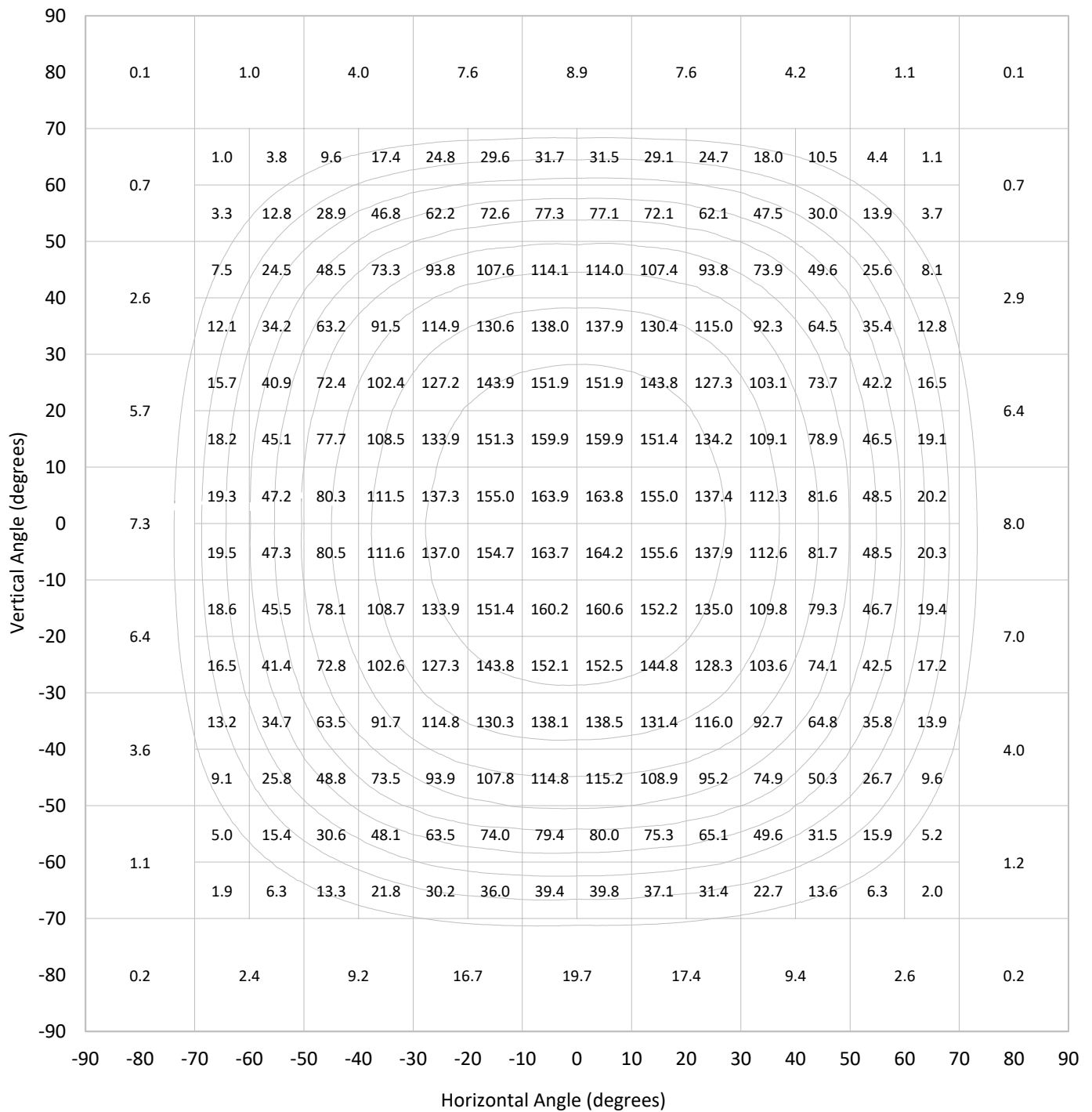
### Iso-Candela Plot





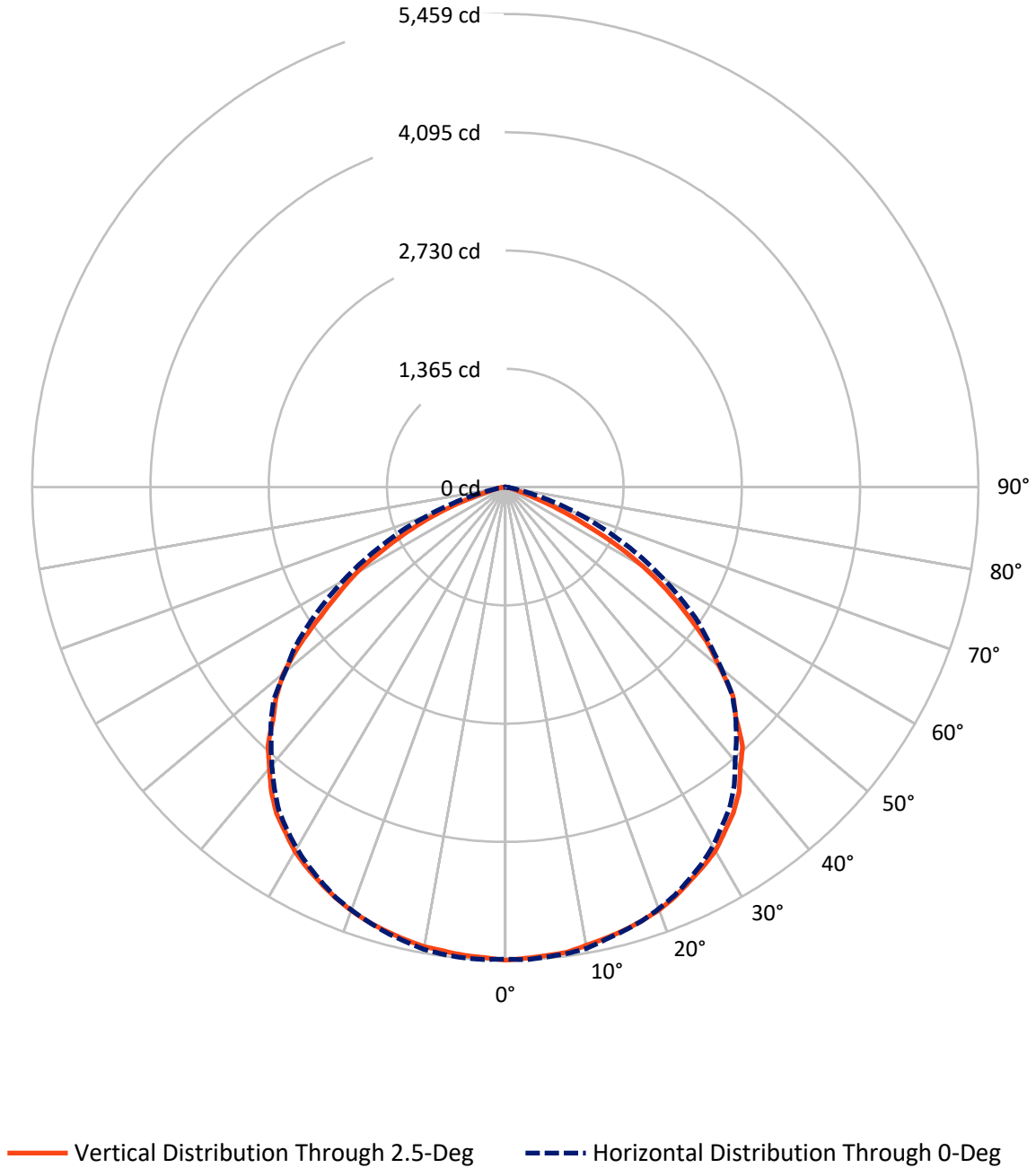
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### Lumen Table



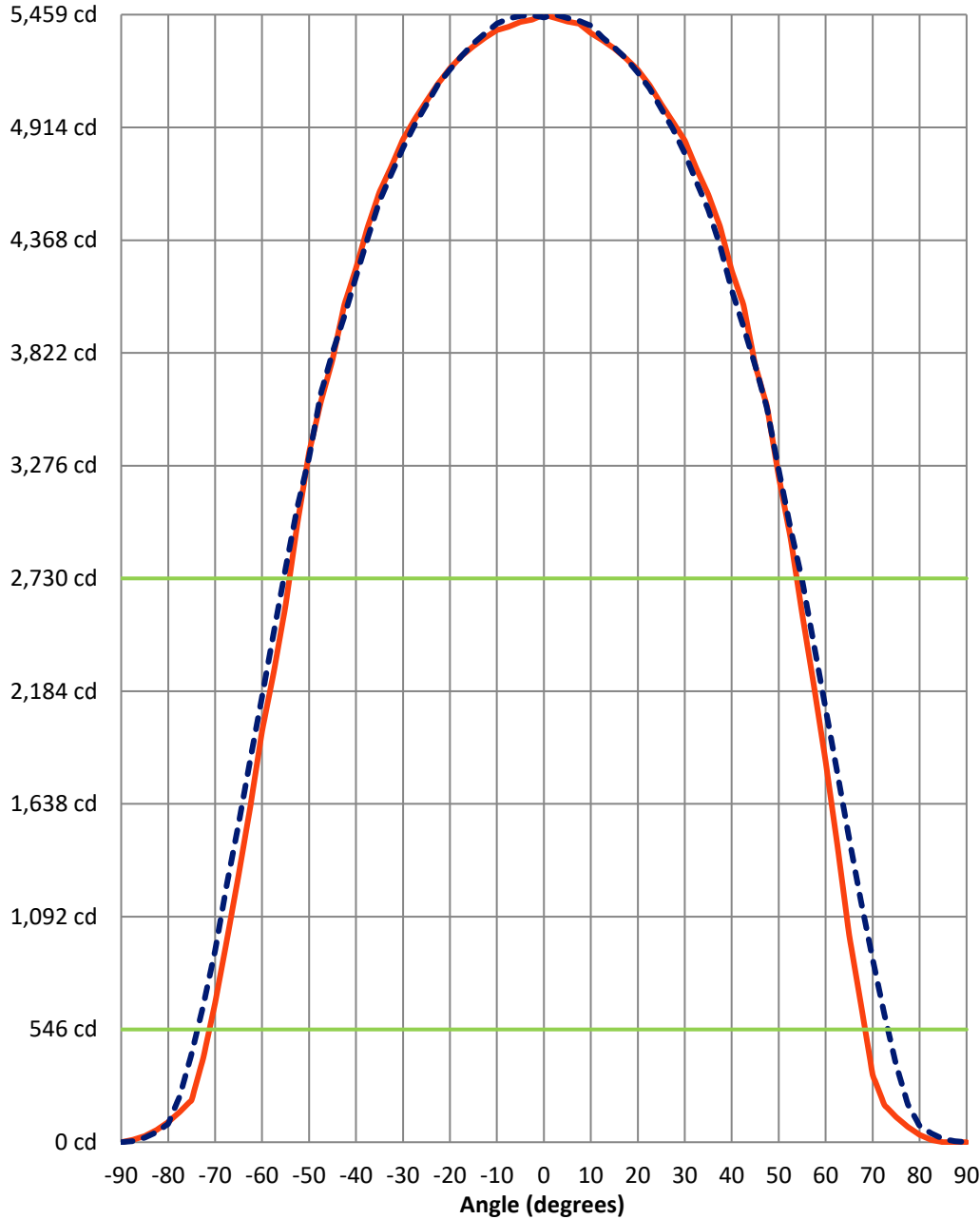
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 110.3°  
 V Angle: 108°  
 Lumens: 11727  
 Efficiency: 80.9%

**Field:**  
 H Angle: 147°  
 V Angle: 139.6°  
 Lumens: 14258.9  
 Efficiency: 98.3%

**Spill:**  
 Lumens: 240.8  
 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	0.2	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.4
85°	0.0	0.3	0.5	0.7	0.8	0.8	0.7	0.8	0.9	0.9	0.9
82.5°	0.0	0.5	0.8	1.0	1.2	1.3	1.3	1.8	2.3	2.5	2.7
80°	0.0	0.6	1.1	1.5	1.8	2.2	3.1	3.9	4.7	5.5	6.4
77.5°	0.0	0.8	1.4	2.0	2.6	3.9	5.1	6.3	7.5	8.7	10.6
75°	0.0	0.9	1.7	2.4	4.0	5.7	7.2	8.6	10.5	13.9	17.5
72.5°	0.0	1.1	2.1	3.4	5.3	7.9	9.3	11.8	16.3	22.1	28.7
70°	0.0	1.2	2.5	4.4	7.3	10.0	11.9	17.4	24.6	33.3	43.1
67.5°	0.0	1.4	2.8	5.4	9.3	12.2	17.0	24.7	35.1	46.8	59.2
65°	0.0	1.5	3.3	6.7	11.3	15.4	22.8	33.6	47.1	61.0	75.7
62.5°	0.0	1.7	4.0	8.4	13.3	19.5	29.4	44.0	59.3	75.4	95.5
60°	0.0	1.9	4.6	10.0	15.3	24.1	37.7	54.4	71.3	91.7	125.0
57.5°	0.0	2.1	5.2	11.7	18.4	29.5	46.3	64.5	85.1	113.6	173.1
55°	0.0	2.3	5.9	13.3	21.4	35.2	54.7	74.5	101.1	149.0	246.5
52.5°	0.0	2.5	6.6	15.0	24.6	41.9	63.0	87.4	119.4	203.8	333.8
50°	0.0	2.6	7.7	16.6	28.7	48.4	71.5	101.9	151.2	272.8	416.2
47.5°	0.0	2.8	8.8	18.3	32.6	54.9	80.4	120.4	196.8	347.7	508.1
45°	0.0	3.0	9.8	20.3	36.5	61.2	92.9	144.7	256.2	419.0	601.8
42.5°	0.0	3.1	10.9	22.2	41.1	67.5	105.6	174.0	320.2	495.2	692.5
40°	0.0	3.3	11.9	24.1	45.5	73.9	123.3	214.7	381.4	573.6	780.0
37.5°	0.0	3.4	12.8	25.9	49.7	80.1	141.4	260.4	440.4	648.0	862.6
35°	0.0	3.6	13.8	28.1	53.8	88.8	162.9	306.3	498.7	718.2	946.8
32.5°	0.0	3.8	14.7	30.4	57.8	98.8	185.8	351.1	554.1	783.4	1032.5
30°	0.0	4.0	15.6	32.5	61.5	108.5	207.9	393.5	606.9	843.6	1108.6
27.5°	0.0	4.2	16.4	34.5	65.0	119.1	237.5	435.2	658.0	899.1	1179.1
25°	0.0	4.4	17.2	36.4	68.4	132.5	266.4	474.1	704.8	956.3	1248.7
22.5°	0.0	4.6	18.0	38.2	71.8	145.4	293.1	509.0	746.2	1011.1	1311.6
20°	0.0	4.7	18.6	39.9	75.0	157.8	317.9	538.6	783.1	1059.9	1364.2
17.5°	0.0	4.8	19.3	41.6	77.9	169.5	341.2	564.4	815.8	1102.9	1409.7
15°	0.0	5.0	19.9	43.2	80.5	180.9	361.7	586.2	844.8	1140.7	1448.7
12.5°	0.0	5.1	20.4	44.5	82.8	191.6	379.6	606.4	869.5	1173.1	1481.3
10°	0.0	5.2	20.9	45.6	84.7	201.1	394.8	625.6	889.9	1200.1	1506.7
7.5°	0.0	5.2	21.3	46.6	86.4	209.3	407.4	640.9	906.0	1221.2	1525.1
5°	0.0	5.3	21.6	47.3	87.7	216.0	417.3	652.5	917.8	1236.2	1536.8
2.5°	0.0	5.3	21.9	47.9	88.6	221.4	424.5	660.2	925.3	1245.3	1542.1
0°	0.0	5.3	22.1	48.2	89.2	225.2	429.2	664.1	928.4	1248.5	1541.3
-2.5°	0.0	5.4	22.1	48.3	89.7	226.2	431.0	665.9	932.1	1250.6	1544.3
-5°	0.0	5.4	22.1	48.2	89.8	225.6	430.1	664.0	931.5	1247.0	1541.5
-7.5°	0.0	5.4	22.0	47.9	89.4	223.5	426.7	658.2	926.3	1237.5	1532.8
-10°	0.0	5.3	21.8	47.4	88.7	219.8	420.7	648.6	916.5	1222.3	1518.3
-12.5°	0.0	5.3	21.5	46.7	87.5	214.6	412.1	635.3	902.1	1201.7	1498.0
-15°	0.0	5.2	21.2	45.8	85.8	207.8	400.8	621.7	882.9	1176.8	1472.0
-17.5°	0.0	5.2	20.8	44.7	83.7	199.5	386.9	607.2	858.9	1147.4	1440.1
-20°	0.0	5.1	20.3	43.4	81.1	189.8	370.5	589.6	832.3	1113.8	1402.7

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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	4.9	19.8	42.0	77.9	178.6	351.4	568.8	801.8	1074.3	1359.4
-25°	0.0	4.8	19.2	40.6	74.3	166.0	329.5	542.5	767.0	1029.2	1305.4
-27.5°	0.0	4.7	18.6	39.0	71.2	151.8	304.9	511.8	727.0	979.9	1245.9
-30°	0.0	4.5	17.8	37.3	68.2	139.0	278.9	478.9	682.9	926.9	1189.8
-32.5°	0.0	4.3	17.1	35.4	64.9	125.7	258.5	444.8	640.2	870.2	1129.2
-35°	0.0	4.1	16.2	33.4	61.4	110.9	236.4	408.3	598.8	812.5	1057.2
-37.5°	0.0	3.9	15.3	31.4	57.7	97.7	212.7	368.4	553.6	750.4	973.0
-40°	0.0	3.8	14.4	29.8	54.0	89.5	187.7	324.6	506.0	684.3	886.9
-42.5°	0.0	3.6	13.4	28.1	50.1	80.5	161.1	283.8	455.4	619.0	802.3
-45°	0.0	3.5	12.3	26.2	46.0	73.0	136.4	250.9	401.5	552.1	713.5
-47.5°	0.0	3.3	11.2	24.3	42.2	67.1	109.8	216.6	341.2	487.0	624.8
-50°	0.0	3.1	10.1	22.5	38.4	61.0	94.2	180.7	285.0	418.1	540.4
-52.5°	0.0	2.9	8.9	20.7	34.4	55.0	79.8	144.4	240.1	343.8	466.0
-55°	0.0	2.7	8.0	18.8	31.1	48.9	71.0	108.5	194.6	276.9	389.7
-57.5°	0.0	2.5	7.3	16.9	27.9	43.2	62.8	89.1	148.7	226.0	302.0
-60°	0.0	2.3	6.5	14.9	24.6	37.6	54.9	74.5	107.3	174.6	241.7
-62.5°	0.0	2.1	5.7	12.9	21.9	32.6	47.0	64.2	84.0	123.4	185.7
-65°	0.0	1.9	4.9	10.8	19.2	27.9	39.9	54.3	70.3	92.0	130.0
-67.5°	0.0	1.7	4.2	9.1	16.4	23.8	33.3	45.0	58.2	73.1	93.3
-70°	0.0	1.5	3.7	7.6	13.6	20.4	27.2	36.4	47.1	59.0	72.2
-72.5°	0.0	1.3	3.2	6.1	10.7	16.8	22.7	28.9	37.0	46.4	56.5
-75°	0.0	1.1	2.7	4.7	8.4	13.2	18.5	23.3	28.3	35.3	42.8
-77.5°	0.0	1.0	2.1	3.8	6.1	9.9	14.2	18.3	22.2	26.2	31.2
-80°	0.0	0.8	1.7	2.9	4.5	6.6	10.0	13.1	16.3	19.6	22.8
-82.5°	0.0	0.6	1.3	2.0	3.2	4.4	5.9	8.0	10.4	12.8	15.3
-85°	0.0	0.4	0.8	1.4	2.0	2.7	3.6	4.5	5.5	6.4	7.8
-87.5°	0.0	0.2	0.4	0.7	1.0	1.3	1.7	2.1	2.4	2.9	3.3
-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: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-90W-7030

**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°	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.6	0.6	0.6	0.5
82.5°	3.2	3.8	4.2	4.5	4.7	4.8	4.8	4.9	5.5	6.2	6.9
80°	7.4	8.4	9.1	9.7	10.4	12.2	13.8	15.1	17.3	19.3	21.1
77.5°	12.4	14.5	17.7	20.8	24.5	27.6	31.6	34.9	39.0	43.7	48.1
75°	21.9	27.1	32.2	39.1	45.2	51.5	57.4	63.0	68.8	75.4	81.0
72.5°	35.7	44.8	53.6	61.9	70.0	78.6	88.6	97.5	105.1	114.8	123.9
70°	53.8	64.7	75.4	88.3	103.4	122.7	138.1	146.6	174.3	204.3	228.0
67.5°	72.0	85.4	107.0	136.8	167.8	199.9	239.9	284.1	334.0	370.2	407.1
65°	93.6	122.4	169.1	216.8	277.0	332.3	399.4	468.7	534.7	585.4	633.8
62.5°	129.1	186.6	264.6	339.5	412.2	497.6	579.9	658.8	735.1	839.5	915.1
60°	188.8	280.4	376.1	472.9	571.5	666.9	761.0	897.0	1014.2	1123.3	1221.7
57.5°	274.6	383.5	500.5	620.1	729.2	853.3	1017.7	1145.0	1286.5	1412.9	1511.0
55°	370.0	497.0	633.1	765.5	923.3	1093.0	1242.9	1401.9	1534.8	1682.4	1765.8
52.5°	467.5	617.9	763.8	943.5	1136.2	1301.7	1475.9	1634.2	1768.3	1942.7	2112.8
50°	576.3	736.2	908.0	1132.3	1324.0	1516.1	1693.4	1835.8	2052.1	2204.3	2355.1
47.5°	682.3	852.9	1086.6	1291.9	1517.4	1715.0	1884.7	2106.7	2260.7	2460.1	2667.1
45°	785.5	1001.2	1224.4	1459.5	1689.0	1885.5	2122.9	2295.4	2513.2	2706.5	2850.0
42.5°	885.0	1130.1	1367.6	1613.9	1837.1	2106.9	2299.2	2517.5	2722.4	2885.0	3014.1
40°	1006.3	1249.9	1506.0	1760.0	2017.5	2247.9	2488.8	2706.6	2894.7	3035.4	3244.2
37.5°	1111.0	1368.6	1636.2	1874.5	2150.4	2402.1	2645.6	2878.8	3031.1	3255.9	3417.6
35°	1207.1	1480.2	1756.9	2030.2	2277.0	2531.8	2795.9	3001.5	3231.3	3415.5	3567.2
32.5°	1303.6	1586.5	1844.1	2135.4	2405.1	2666.1	2903.3	3140.1	3389.1	3548.4	3693.9
30°	1390.6	1687.7	1959.3	2234.7	2498.9	2778.4	2999.2	3279.9	3490.3	3647.2	3799.7
27.5°	1471.1	1768.4	2053.9	2333.5	2607.3	2855.0	3126.8	3363.3	3577.8	3728.6	3902.6
25°	1545.9	1829.1	2134.8	2413.7	2695.9	2938.7	3219.2	3455.4	3643.2	3821.8	3994.8
22.5°	1612.5	1903.2	2201.2	2467.8	2757.2	3030.8	3278.2	3536.2	3709.2	3886.3	4070.2
20°	1670.6	1968.0	2266.5	2553.0	2803.8	3106.6	3344.1	3593.6	3774.2	3951.2	4124.2
17.5°	1718.0	2025.5	2329.3	2617.4	2874.5	3153.3	3421.0	3641.0	3820.1	3998.7	4180.4
15°	1756.6	2076.4	2374.2	2664.4	2934.0	3199.9	3484.5	3683.2	3857.7	4031.7	4243.3
12.5°	1790.8	2111.8	2407.2	2706.1	2983.4	3238.3	3532.6	3725.2	3897.9	4070.9	4266.4
10°	1819.5	2135.3	2434.7	2734.0	3022.8	3277.9	3567.3	3760.0	3933.0	4120.7	4297.6
7.5°	1839.2	2151.3	2457.1	2755.6	3049.9	3306.7	3596.2	3786.8	3960.2	4156.7	4328.3
5°	1851.1	2160.3	2470.1	2770.4	3066.6	3321.1	3613.0	3806.6	3980.9	4180.1	4354.2
2.5°	1855.9	2162.4	2473.8	2777.9	3075.0	3323.3	3622.3	3818.9	3993.8	4191.2	4371.0
0°	1854.0	2158.0	2469.6	2777.6	3073.5	3315.3	3623.8	3823.1	3998.2	4190.7	4378.2
-2.5°	1858.4	2164.7	2474.7	2779.4	3077.5	3325.1	3626.3	3823.0	3999.4	4195.9	4378.0
-5°	1856.1	2164.4	2471.7	2773.4	3071.9	3324.9	3621.3	3814.5	3991.5	4188.7	4368.7
-7.5°	1846.2	2156.4	2459.4	2760.0	3058.3	3312.5	3609.0	3797.9	3974.6	4168.3	4350.8
-10°	1828.0	2139.7	2437.6	2739.5	3033.0	3286.1	3583.8	3773.2	3951.2	4134.3	4328.7
-12.5°	1802.3	2113.6	2412.8	2712.4	2992.1	3249.1	3552.0	3742.3	3919.2	4098.3	4300.1
-15°	1772.4	2077.8	2383.7	2671.8	2938.9	3212.7	3503.8	3706.1	3881.2	4064.0	4262.1
-17.5°	1739.1	2037.1	2343.6	2626.0	2883.1	3169.3	3435.1	3666.8	3838.2	4024.5	4202.1
-20°	1693.8	1994.2	2285.4	2561.2	2816.9	3127.5	3358.2	3618.0	3784.4	3962.7	4151.8



REPORT NUMBER: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-90W-7030

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1635.0	1928.4	2218.3	2474.0	2770.4	3044.0	3293.2	3553.4	3730.3	3897.5	4096.6
-25°	1574.1	1851.8	2136.6	2428.0	2708.1	2950.2	3235.0	3468.1	3666.2	3818.1	3993.6
-27.5°	1514.8	1801.2	2072.7	2354.6	2613.7	2872.5	3141.3	3376.9	3590.1	3747.6	3904.0
-30°	1449.6	1720.7	1990.8	2254.8	2503.5	2798.6	3012.7	3294.3	3502.6	3663.4	3810.4
-32.5°	1376.5	1616.8	1870.0	2144.2	2424.3	2670.3	2924.9	3151.9	3402.7	3558.4	3714.6
-35°	1291.3	1530.9	1785.5	2060.0	2299.3	2534.4	2815.8	3020.2	3244.5	3425.5	3579.6
-37.5°	1202.2	1439.4	1666.6	1901.7	2166.4	2422.1	2643.6	2912.1	3053.2	3274.2	3424.4
-40°	1103.1	1339.2	1556.1	1782.5	2044.5	2269.0	2505.3	2712.5	2926.6	3063.1	3267.3
-42.5°	1001.7	1222.5	1445.4	1647.7	1861.9	2130.2	2329.9	2539.7	2736.4	2918.8	3047.6
-45°	899.8	1089.7	1326.7	1522.5	1714.7	1918.7	2150.0	2347.0	2547.7	2727.6	2887.0
-47.5°	796.9	973.1	1164.6	1392.0	1572.8	1736.0	1934.2	2138.5	2326.6	2517.9	2695.7
-50°	689.5	857.2	1018.2	1227.9	1422.9	1568.3	1717.8	1906.2	2094.9	2263.0	2444.0
-52.5°	581.5	735.0	891.7	1036.1	1241.8	1393.6	1529.3	1668.2	1836.9	2011.3	2147.3
-55°	490.1	608.3	755.0	898.4	1022.3	1192.4	1334.8	1458.0	1584.4	1715.3	1883.1
-57.5°	408.2	494.0	611.1	746.1	863.9	980.0	1106.3	1246.0	1352.1	1464.5	1581.5
-60°	316.1	406.8	479.4	584.8	702.4	802.2	907.7	1007.9	1119.6	1219.9	1321.0
-62.5°	243.2	308.8	388.3	449.6	528.8	633.8	723.0	793.8	899.8	978.9	1067.3
-65°	183.3	232.1	280.8	350.1	404.0	457.9	538.7	620.9	688.2	742.2	821.0
-67.5°	124.0	169.1	209.5	244.6	291.0	338.0	387.2	431.2	490.7	556.4	611.6
-70°	88.2	110.7	143.5	172.6	201.9	230.4	262.0	289.0	331.6	371.0	404.9
-72.5°	67.2	80.5	95.6	110.8	131.1	148.2	171.0	192.8	214.7	236.9	258.4
-75°	51.0	59.9	68.6	78.9	88.7	99.3	108.4	115.8	122.2	141.3	154.8
-77.5°	37.0	43.2	49.6	56.1	62.9	69.5	76.7	83.2	89.4	95.6	101.5
-80°	26.1	29.4	33.7	38.0	42.4	47.1	51.7	56.1	60.6	64.7	68.6
-82.5°	17.7	20.2	22.6	24.8	27.1	29.3	31.6	34.6	37.2	39.6	41.9
-85°	9.4	11.0	12.5	14.1	15.6	17.0	18.5	19.9	21.1	22.2	23.3
-87.5°	3.9	4.4	4.8	5.3	5.7	6.2	6.6	7.1	7.5	7.8	8.2
-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):**

	-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°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
85°	0.8	1.2	1.5	1.6	1.5	1.4	1.1	0.8	0.4	0.4	0.4
82.5°	7.7	8.3	8.7	8.8	9.0	9.1	9.3	9.8	10.1	10.5	10.8
80°	23.1	25.0	26.6	28.2	29.8	31.6	32.9	33.8	34.3	35.1	35.7
77.5°	52.0	55.6	58.8	61.6	64.2	66.4	68.3	69.8	71.0	72.4	73.4
75°	86.7	92.1	96.9	101.6	105.7	109.1	111.9	114.4	116.0	118.3	120.2
72.5°	136.7	146.8	149.9	152.0	157.5	162.3	166.5	169.8	172.2	175.1	177.6
70°	239.9	238.3	241.5	267.9	293.0	300.9	295.5	282.1	286.7	304.8	322.6
67.5°	441.8	472.5	502.6	531.6	558.9	581.4	599.2	612.0	619.7	632.9	649.6
65°	688.7	744.1	781.2	810.1	864.5	903.9	932.8	952.7	965.3	983.3	1003.0
62.5°	980.8	1057.2	1122.7	1184.1	1245.2	1285.2	1313.6	1339.0	1347.2	1353.1	1377.3
60°	1309.4	1393.5	1455.3	1509.2	1568.6	1638.0	1691.1	1722.6	1759.8	1776.0	1788.7
57.5°	1604.5	1675.8	1803.0	1882.6	1929.0	1987.3	2042.5	2106.7	2135.4	2140.9	2164.2
55°	1927.6	2029.0	2104.3	2202.1	2267.6	2295.4	2370.6	2435.8	2482.0	2503.7	2520.6
52.5°	2191.0	2325.4	2423.9	2496.6	2597.6	2684.2	2705.1	2745.6	2794.0	2845.5	2889.1
50°	2532.9	2624.0	2732.2	2805.7	2872.3	2977.8	3078.5	3106.9	3120.5	3127.7	3172.6
47.5°	2772.8	2864.0	2948.8	3102.9	3214.4	3278.1	3320.7	3386.2	3441.4	3485.6	3512.4
45°	2964.0	3101.8	3244.9	3339.2	3418.3	3482.7	3556.4	3630.5	3682.4	3698.6	3712.0
42.5°	3199.1	3335.7	3443.0	3538.9	3637.4	3756.1	3829.0	3850.8	3896.1	3963.9	4007.9
40°	3392.6	3526.2	3655.2	3765.3	3881.0	3931.9	3997.0	4069.0	4131.8	4151.3	4154.7
37.5°	3562.7	3730.7	3843.2	3957.1	4023.3	4105.9	4210.8	4244.5	4303.6	4352.6	4380.8
35°	3722.3	3870.0	4014.9	4083.0	4198.5	4277.8	4367.1	4414.8	4447.8	4503.3	4545.2
32.5°	3849.7	3998.6	4106.3	4242.5	4334.0	4422.6	4467.1	4535.1	4600.9	4638.8	4663.4
30°	3963.5	4097.8	4240.3	4354.7	4451.7	4505.3	4599.9	4676.2	4727.5	4754.7	4795.5
27.5°	4064.3	4207.8	4340.7	4452.8	4533.5	4629.2	4705.1	4759.3	4804.6	4854.7	4883.2
25°	4160.4	4301.7	4429.2	4525.8	4630.9	4710.7	4785.6	4850.4	4908.9	4945.0	4993.9
22.5°	4223.3	4384.6	4497.1	4610.2	4707.1	4796.7	4866.6	4936.3	4993.7	5043.3	5065.5
20°	4303.5	4441.4	4567.7	4681.8	4777.3	4861.0	4950.2	5004.9	5056.2	5109.2	5142.8
17.5°	4347.8	4493.6	4621.7	4744.1	4837.4	4922.1	4993.6	5061.8	5119.5	5166.8	5194.0
15°	4383.5	4538.2	4672.2	4780.9	4880.8	4966.3	5039.5	5106.7	5164.9	5206.0	5248.7
12.5°	4421.9	4568.4	4702.9	4821.1	4912.4	4999.4	5079.1	5142.6	5196.7	5252.6	5288.7
10°	4463.2	4591.6	4722.4	4842.3	4943.6	5033.7	5107.7	5171.3	5227.4	5281.7	5317.7
7.5°	4497.0	4633.4	4751.1	4859.6	4956.1	5059.3	5134.5	5199.3	5259.0	5308.9	5346.5
5°	4523.4	4661.1	4785.2	4888.3	4992.9	5086.5	5155.7	5218.8	5285.3	5328.9	5371.9
2.5°	4544.7	4677.8	4805.3	4912.5	5014.5	5106.9	5177.2	5243.0	5305.0	5350.1	5381.4
0°	4557.0	4686.7	4814.3	4925.7	5023.8	5122.4	5193.5	5259.7	5320.3	5369.3	5415.8
-2.5°	4552.3	4686.1	4812.5	4924.1	5024.6	5116.1	5192.5	5260.4	5319.2	5370.3	5409.6
-5°	4538.2	4676.8	4800.7	4909.8	5014.5	5103.2	5184.3	5254.2	5305.0	5351.0	5393.6
-7.5°	4518.4	4657.2	4777.2	4890.7	4990.3	5084.5	5164.5	5232.1	5282.2	5325.0	5362.7
-10°	4490.7	4625.3	4755.3	4874.6	4985.0	5064.1	5139.9	5208.8	5258.5	5299.0	5334.3
-12.5°	4450.8	4601.9	4736.3	4842.3	4945.2	5029.6	5116.4	5173.4	5230.9	5281.2	5311.5
-15°	4414.8	4571.8	4695.6	4804.7	4915.4	5010.0	5075.6	5142.3	5198.9	5235.3	5274.9
-17.5°	4378.9	4519.9	4650.1	4778.3	4858.8	4947.1	5032.4	5099.5	5147.5	5192.7	5219.8
-20°	4317.9	4469.4	4602.8	4705.0	4815.3	4892.4	4965.1	5042.1	5084.2	5132.8	5168.2



REPORT NUMBER: P622900 (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°	4248.6	4410.0	4529.9	4654.5	4736.7	4835.3	4904.0	4960.1	5020.6	5051.1	5090.3
-25°	4183.9	4318.3	4459.4	4567.1	4673.5	4746.4	4832.6	4894.5	4943.4	4973.5	5009.5
-27.5°	4084.3	4236.5	4370.2	4487.6	4585.2	4669.7	4740.3	4799.0	4866.3	4900.5	4919.7
-30°	3977.1	4128.2	4271.6	4398.2	4485.0	4559.4	4641.1	4711.6	4755.5	4785.4	4821.5
-32.5°	3859.8	4022.8	4140.5	4274.7	4380.5	4447.7	4509.6	4582.2	4634.9	4664.7	4690.3
-35°	3744.0	3887.6	4047.6	4122.7	4227.0	4318.2	4400.5	4444.4	4484.4	4535.1	4569.9
-37.5°	3576.3	3750.9	3871.1	3986.6	4065.4	4147.0	4237.9	4287.5	4340.8	4374.8	4401.5
-40°	3397.8	3531.0	3686.9	3802.0	3895.0	3974.1	4037.4	4108.4	4157.5	4183.6	4200.2
-42.5°	3235.4	3346.8	3456.3	3578.3	3683.4	3796.8	3848.7	3889.1	3936.3	3997.9	4032.0
-45°	3002.9	3156.0	3272.5	3370.6	3456.3	3534.4	3609.5	3678.5	3726.8	3747.8	3766.3
-47.5°	2814.0	2913.5	3043.8	3169.4	3253.8	3330.4	3393.8	3447.2	3491.1	3526.1	3551.9
-50°	2595.0	2703.8	2786.1	2877.2	3009.0	3100.6	3136.0	3167.5	3217.9	3283.7	3313.5
-52.5°	2283.0	2389.9	2538.2	2639.5	2703.9	2744.9	2822.0	2895.9	2945.7	2952.4	2970.7
-55°	1988.8	2087.6	2181.9	2256.9	2353.7	2478.5	2519.9	2541.8	2543.6	2547.3	2603.4
-57.5°	1696.6	1820.4	1888.2	1953.5	2025.3	2091.1	2142.8	2176.4	2218.4	2255.5	2284.7
-60°	1420.0	1515.0	1604.0	1687.8	1752.0	1779.9	1805.3	1864.9	1923.9	1957.5	1971.2
-62.5°	1156.8	1235.4	1310.9	1381.1	1442.0	1496.5	1535.7	1563.4	1580.1	1592.1	1609.0
-65°	887.9	953.9	1025.0	1092.5	1137.8	1178.3	1206.6	1225.0	1241.7	1274.7	1300.7
-67.5°	661.3	708.3	751.9	782.5	825.7	868.3	901.8	926.6	942.9	959.2	976.9
-70°	445.1	485.9	522.1	555.8	583.1	609.8	634.2	654.8	666.2	675.1	681.7
-72.5°	283.1	305.1	322.9	341.9	358.2	374.2	388.2	398.8	405.9	411.9	416.0
-75°	168.3	183.2	197.0	208.8	216.4	220.0	219.9	216.6	210.5	210.3	211.0
-77.5°	107.4	113.2	118.7	123.3	127.5	131.2	134.4	137.1	140.0	143.1	145.4
-80°	72.5	76.2	79.6	82.5	85.2	87.8	90.0	91.8	93.2	94.6	95.8
-82.5°	44.2	46.5	48.6	50.3	51.8	53.1	54.3	55.4	56.3	57.2	57.9
-85°	24.4	25.3	26.2	26.9	27.5	28.0	28.5	28.8	29.1	29.4	29.6
-87.5°	8.7	9.2	9.7	10.0	10.3	10.6	10.9	11.1	11.3	11.4	11.6
-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: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**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	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
82.5°	10.9	11.0	10.9	10.7	10.8	10.9	10.8	10.6	10.3	9.8	9.5
80°	36.0	36.2	36.0	35.7	36.0	36.0	35.8	35.4	34.7	33.9	33.2
77.5°	74.1	74.3	74.2	73.8	74.2	74.2	73.9	73.2	72.0	70.6	69.1
75°	121.5	122.1	122.1	121.4	121.9	121.8	121.0	119.6	117.6	115.2	113.4
72.5°	179.4	180.4	180.8	180.3	180.7	180.4	179.2	177.2	174.4	171.5	169.4
70°	331.4	332.3	326.7	315.8	326.7	333.1	334.4	330.0	319.3	308.2	303.1
67.5°	661.1	667.0	667.3	661.5	668.7	669.9	665.1	654.6	638.6	627.2	620.8
65°	1012.1	1011.3	1001.7	984.0	1003.7	1015.2	1017.3	1008.8	988.8	967.1	951.5
62.5°	1404.1	1420.8	1427.7	1424.9	1436.5	1439.8	1436.2	1427.1	1407.2	1387.2	1368.0
60°	1805.1	1821.1	1832.2	1834.1	1841.9	1839.1	1829.0	1814.7	1799.1	1773.1	1734.4
57.5°	2191.9	2205.6	2206.1	2196.8	2209.1	2211.1	2199.0	2171.9	2151.4	2142.9	2112.9
55°	2536.9	2549.5	2556.5	2556.0	2558.1	2552.5	2541.0	2525.3	2508.2	2493.5	2466.5
52.5°	2913.6	2922.8	2926.2	2920.0	2928.2	2927.0	2920.6	2903.6	2875.2	2835.1	2763.6
50°	3212.2	3225.6	3218.0	3194.6	3223.8	3237.0	3228.3	3192.3	3145.3	3128.1	3109.7
47.5°	3537.4	3553.3	3560.9	3560.4	3562.9	3557.4	3544.0	3520.1	3491.3	3448.1	3398.6
45°	3739.3	3755.7	3761.9	3758.5	3762.7	3757.7	3743.1	3718.7	3706.0	3694.7	3640.5
42.5°	4038.8	4049.1	4053.7	4051.0	4053.1	4047.0	4034.2	4008.1	3970.4	3901.0	3855.9
40°	4186.1	4205.4	4212.2	4209.1	4219.8	4218.5	4200.2	4163.6	4154.7	4134.2	4089.9
37.5°	4397.0	4422.7	4432.8	4430.9	4433.8	4424.9	4401.0	4386.9	4362.5	4324.3	4251.8
35°	4566.3	4579.2	4588.4	4591.8	4588.6	4579.3	4566.0	4547.6	4508.7	4453.1	4416.8
32.5°	4684.9	4700.4	4709.4	4708.3	4713.3	4711.1	4697.6	4662.4	4633.8	4601.5	4550.1
30°	4833.1	4834.6	4845.9	4855.9	4849.6	4836.7	4823.0	4795.0	4755.6	4725.2	4672.8
27.5°	4906.2	4925.6	4937.3	4937.0	4938.8	4931.4	4912.0	4887.9	4856.8	4834.7	4760.0
25°	5006.3	5017.6	5025.3	5025.4	5025.7	5018.5	5007.2	4996.5	4950.6	4919.5	4855.5
22.5°	5101.1	5117.0	5120.7	5118.4	5118.0	5107.9	5094.0	5065.5	5043.2	4999.9	4941.7
20°	5171.2	5186.8	5187.8	5189.4	5192.5	5192.0	5174.5	5145.4	5108.2	5055.9	5005.6
17.5°	5229.6	5244.1	5250.5	5250.9	5247.2	5242.1	5229.1	5203.5	5164.1	5116.0	5059.1
15°	5277.4	5286.0	5295.2	5299.3	5295.5	5284.0	5272.6	5250.3	5204.0	5155.2	5108.3
12.5°	5313.7	5329.9	5334.0	5334.3	5335.0	5331.5	5312.1	5283.3	5241.9	5196.8	5143.0
10°	5344.2	5359.8	5372.1	5369.6	5370.3	5364.0	5352.1	5314.4	5278.9	5236.0	5178.1
7.5°	5381.6	5394.0	5401.9	5400.6	5415.7	5398.1	5385.9	5357.6	5311.4	5267.4	5207.7
5°	5398.8	5422.2	5428.7	5427.5	5426.3	5418.6	5409.8	5382.5	5341.6	5289.5	5229.8
2.5°	5409.4	5425.6	5436.8	5436.7	5443.0	5436.1	5426.6	5389.9	5352.0	5298.3	5242.3
0°	5441.4	5452.9	5457.2	5446.2	5459.5	5443.4	5429.3	5405.9	5348.8	5300.3	5247.0
-2.5°	5435.5	5442.8	5450.2	5445.4	5435.3	5421.8	5407.6	5373.0	5337.4	5287.0	5235.8
-5°	5415.2	5428.4	5432.5	5421.9	5423.9	5405.8	5399.5	5358.9	5318.4	5269.3	5218.0
-7.5°	5396.4	5402.1	5406.3	5402.8	5400.8	5383.9	5378.7	5343.2	5295.0	5252.3	5196.2
-10°	5365.0	5381.0	5386.1	5394.9	5384.3	5367.6	5349.0	5323.7	5278.7	5232.0	5176.5
-12.5°	5343.8	5349.8	5355.2	5359.3	5348.3	5335.8	5322.2	5290.2	5252.7	5203.4	5150.5
-15°	5304.0	5311.2	5313.5	5307.9	5306.7	5300.6	5276.7	5244.8	5213.2	5163.1	5105.3
-17.5°	5245.4	5262.9	5267.2	5264.4	5259.7	5247.9	5230.7	5201.3	5162.7	5113.2	5061.6
-20°	5185.6	5200.5	5209.2	5204.0	5199.7	5186.3	5168.6	5142.9	5103.4	5055.4	5011.4



REPORT NUMBER: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5115.8	5123.0	5130.3	5126.2	5126.3	5117.4	5101.9	5071.1	5033.1	4990.6	4929.8
-25°	5022.5	5043.0	5047.1	5038.0	5040.9	5031.9	5009.0	4988.4	4945.1	4904.4	4851.5
-27.5°	4941.0	4956.2	4958.5	4953.6	4952.9	4943.5	4922.7	4893.5	4861.9	4822.4	4762.8
-30°	4846.0	4855.3	4863.0	4864.5	4855.1	4839.4	4821.6	4792.7	4756.6	4718.9	4672.0
-32.5°	4715.7	4728.3	4730.4	4724.3	4723.3	4714.7	4695.8	4663.9	4636.2	4598.8	4540.2
-35°	4585.2	4597.3	4605.0	4606.8	4600.5	4589.4	4575.9	4553.4	4509.9	4453.0	4408.7
-37.5°	4419.0	4436.5	4439.9	4431.1	4432.1	4419.7	4392.5	4371.3	4343.1	4298.5	4236.2
-40°	4224.1	4236.7	4238.1	4229.9	4232.0	4224.1	4203.9	4171.0	4149.5	4119.1	4066.8
-42.5°	4053.0	4059.6	4060.3	4053.1	4053.4	4045.5	4031.1	3998.0	3954.9	3896.8	3855.4
-45°	3783.6	3794.4	3797.6	3792.4	3789.7	3778.2	3758.3	3730.7	3714.3	3689.9	3628.1
-47.5°	3572.0	3584.7	3588.8	3584.0	3583.3	3573.5	3554.5	3529.0	3498.1	3458.2	3408.1
-50°	3328.0	3340.5	3345.9	3338.8	3338.9	3325.5	3302.9	3275.5	3236.0	3175.3	3129.4
-52.5°	2990.7	3000.6	3001.0	2992.8	2992.9	2984.3	2966.1	2937.4	2910.7	2894.9	2830.3
-55°	2629.7	2630.4	2611.8	2580.1	2599.0	2606.4	2597.5	2567.5	2513.9	2506.8	2493.5
-57.5°	2293.3	2294.6	2288.3	2272.7	2277.7	2271.7	2254.9	2229.0	2196.7	2170.4	2142.6
-60°	1985.1	1995.7	1999.6	1993.4	1991.2	1978.4	1958.0	1932.9	1905.9	1867.4	1816.3
-62.5°	1621.7	1629.4	1631.1	1626.0	1625.4	1617.8	1604.1	1585.2	1561.8	1545.2	1524.2
-65°	1312.4	1311.8	1301.2	1282.8	1294.2	1297.8	1291.3	1272.7	1239.7	1200.5	1179.7
-67.5°	986.7	988.9	984.7	975.4	978.1	975.9	968.0	953.5	930.4	903.2	881.3
-70°	685.3	685.5	681.7	673.6	674.5	671.4	665.3	657.1	647.6	638.1	623.9
-72.5°	417.3	415.6	410.8	402.8	409.9	413.6	414.0	411.2	405.1	395.0	382.4
-75°	210.7	209.5	207.5	204.7	204.7	204.0	202.6	200.6	197.9	196.6	202.3
-77.5°	147.0	147.8	147.9	147.5	147.4	146.9	145.8	144.1	141.9	139.3	136.7
-80°	96.6	97.1	97.3	97.2	97.3	97.0	96.4	95.5	94.2	92.7	91.0
-82.5°	58.4	58.7	58.8	58.7	58.6	58.4	58.0	57.4	56.6	55.7	54.6
-85°	29.7	29.8	29.8	29.7	29.7	29.6	29.4	29.1	28.8	28.5	28.0
-87.5°	11.7	11.7	11.8	11.8	11.7	11.6	11.5	11.3	11.1	10.9	10.6
-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: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	1.1	1.3	1.4	1.5	1.4	1.1	0.8	0.5	0.5	0.6	0.6
82.5°	9.0	8.7	8.6	8.4	8.3	8.2	8.0	7.7	7.3	6.7	6.1
80°	32.3	30.9	29.1	27.4	25.6	23.9	22.0	19.9	18.1	16.1	13.9
77.5°	67.3	65.2	62.8	60.0	57.1	54.0	50.5	46.5	42.1	37.2	33.0
75°	110.8	107.7	104.1	99.6	94.4	89.2	83.5	77.9	72.7	67.0	61.1
72.5°	165.8	160.4	154.7	149.0	145.9	141.2	130.4	117.4	108.7	99.8	91.8
70°	305.0	301.8	290.7	267.5	237.3	224.2	223.6	213.8	189.9	160.8	133.9
67.5°	604.8	583.7	557.3	524.8	487.9	451.2	415.6	369.3	314.9	293.9	259.3
65°	929.3	897.7	876.0	852.1	792.7	727.0	672.5	614.2	552.4	484.7	404.2
62.5°	1337.9	1296.5	1241.8	1169.7	1098.3	1033.0	975.5	887.1	794.0	714.5	620.9
60°	1703.5	1654.5	1582.8	1538.8	1468.8	1377.1	1268.0	1176.8	1088.0	965.3	834.1
57.5°	2055.5	1995.5	1921.6	1873.8	1794.1	1666.5	1591.4	1483.2	1357.1	1235.9	1098.3
55°	2401.2	2303.8	2257.6	2189.6	2090.5	1989.6	1895.7	1741.4	1635.6	1493.7	1342.6
52.5°	2699.8	2676.1	2622.1	2523.9	2403.2	2311.8	2169.4	2051.3	1899.7	1732.7	1577.6
50°	3089.3	3000.4	2882.2	2789.6	2723.9	2627.5	2489.2	2340.8	2155.7	2000.4	1812.1
47.5°	3327.2	3276.6	3211.1	3114.7	2949.2	2841.8	2758.2	2620.2	2433.9	2211.7	2055.1
45°	3558.0	3479.1	3406.0	3317.3	3233.9	3104.8	2942.4	2825.0	2659.7	2470.4	2233.5
42.5°	3831.5	3773.8	3634.0	3532.2	3400.7	3301.2	3194.1	2993.1	2855.7	2657.8	2469.9
40°	3996.6	3933.4	3874.5	3764.6	3647.4	3479.1	3338.6	3207.8	3010.1	2862.1	2624.7
37.5°	4206.6	4124.7	4023.7	3941.3	3832.4	3710.8	3527.9	3356.9	3195.9	3000.4	2840.7
35°	4374.4	4272.0	4191.6	4086.9	3991.9	3848.2	3696.9	3526.8	3351.3	3142.9	2967.9
32.5°	4471.7	4410.6	4338.0	4224.5	4099.9	3971.9	3816.5	3660.3	3500.8	3315.5	3058.5
30°	4603.5	4527.2	4431.4	4352.5	4220.5	4078.8	3928.3	3764.6	3602.7	3433.6	3198.5
27.5°	4707.2	4627.2	4551.5	4431.5	4325.8	4191.3	4028.6	3858.2	3698.6	3518.3	3297.4
25°	4795.9	4717.8	4631.4	4528.7	4410.7	4275.8	4138.5	3938.2	3763.2	3597.5	3380.6
22.5°	4875.8	4803.0	4699.7	4608.9	4490.0	4364.3	4208.4	4034.1	3847.7	3672.5	3462.0
20°	4949.4	4859.4	4771.0	4666.1	4553.4	4427.3	4269.9	4099.3	3901.1	3724.6	3536.0
17.5°	4990.6	4917.5	4821.4	4716.8	4613.7	4469.1	4331.3	4147.8	3960.9	3779.8	3593.8
15°	5038.0	4954.0	4867.6	4777.2	4645.6	4523.2	4369.3	4202.5	4000.3	3818.2	3635.8
12.5°	5080.7	4998.8	4907.7	4799.0	4691.4	4561.4	4396.2	4242.9	4031.7	3853.0	3677.1
10°	5115.2	5032.7	4941.0	4843.3	4728.3	4576.7	4430.4	4277.3	4070.2	3890.3	3710.0
7.5°	5139.6	5066.1	4972.4	4867.4	4752.2	4608.6	4466.8	4305.6	4105.3	3919.2	3735.1
5°	5159.2	5088.9	4987.4	4888.9	4768.9	4632.9	4494.8	4325.8	4125.3	3937.5	3751.9
2.5°	5172.6	5098.5	4998.7	4901.4	4781.5	4646.5	4511.3	4337.7	4131.6	3946.9	3760.3
0°	5178.8	5102.3	5003.5	4904.9	4787.8	4648.2	4515.1	4341.1	4126.1	3948.0	3760.1
-2.5°	5166.1	5089.0	4993.2	4897.5	4778.3	4646.8	4510.7	4340.4	4135.6	3949.5	3763.0
-5°	5143.8	5068.8	4975.4	4882.6	4760.3	4634.2	4496.0	4330.7	4134.4	3942.6	3757.6
-7.5°	5128.8	5047.4	4954.2	4855.0	4733.5	4610.5	4474.7	4313.0	4121.3	3926.6	3744.3
-10°	5107.6	5027.2	4932.5	4830.9	4716.5	4577.1	4446.7	4290.5	4095.5	3903.5	3723.3
-12.5°	5080.3	4999.9	4905.9	4799.6	4695.7	4556.7	4408.6	4260.9	4053.4	3874.5	3692.2
-15°	5041.4	4961.3	4869.1	4767.6	4650.2	4527.4	4374.0	4219.3	4012.6	3838.1	3649.8
-17.5°	4999.1	4912.6	4824.9	4729.3	4603.2	4478.2	4336.8	4164.8	3974.4	3797.8	3606.4
-20°	4938.4	4852.6	4769.9	4664.2	4558.5	4421.0	4279.4	4103.1	3933.5	3746.0	3554.0



REPORT NUMBER: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4861.9	4792.1	4701.9	4608.6	4485.5	4364.7	4210.1	4043.4	3864.8	3683.6	3485.2
-25°	4788.8	4716.5	4637.7	4531.0	4415.6	4280.6	4133.7	3978.8	3788.1	3610.8	3394.7
-27.5°	4703.9	4638.5	4552.5	4445.8	4329.0	4191.9	4045.2	3876.0	3708.2	3533.1	3317.6
-30°	4602.2	4526.2	4448.4	4353.3	4226.6	4083.6	3943.5	3775.6	3614.2	3442.8	3231.1
-32.5°	4476.1	4414.6	4328.2	4232.2	4099.9	3981.2	3820.2	3666.2	3513.1	3343.8	3079.5
-35°	4351.4	4263.3	4186.8	4078.1	3997.3	3841.5	3697.1	3545.0	3372.5	3167.0	2962.2
-37.5°	4187.0	4103.5	4014.2	3941.0	3822.9	3704.0	3553.1	3379.2	3204.2	2994.5	2837.5
-40°	3989.0	3933.1	3860.6	3748.9	3643.1	3528.5	3357.7	3198.3	3002.3	2860.5	2646.9
-42.5°	3820.3	3736.3	3621.1	3542.9	3437.7	3303.7	3159.1	2985.4	2856.4	2674.7	2484.3
-45°	3553.6	3488.2	3420.1	3325.6	3222.7	3085.6	2941.5	2828.1	2674.5	2494.4	2249.1
-47.5°	3345.5	3282.7	3212.9	3113.7	2973.0	2851.7	2763.3	2644.7	2466.8	2229.2	2072.4
-50°	3098.7	3042.7	2930.6	2807.7	2734.4	2645.2	2533.5	2378.2	2179.0	2036.6	1821.6
-52.5°	2749.4	2693.8	2642.3	2558.4	2455.3	2348.4	2202.3	2088.6	1954.0	1761.6	1623.6
-55°	2445.0	2370.5	2294.3	2230.4	2138.3	2021.5	1943.5	1796.7	1663.1	1534.2	1407.7
-57.5°	2119.5	2066.8	1960.4	1894.4	1839.4	1753.3	1642.8	1527.9	1409.7	1321.8	1204.9
-60°	1766.9	1739.7	1709.9	1637.8	1550.0	1457.0	1359.9	1289.6	1194.1	1084.6	981.2
-62.5°	1491.0	1445.0	1382.7	1313.6	1262.1	1209.7	1109.4	1030.0	946.0	854.5	791.1
-65°	1163.3	1143.4	1088.2	1016.2	977.7	927.4	855.9	793.0	740.9	657.4	589.7
-67.5°	858.9	834.9	802.8	761.2	711.7	668.8	623.5	574.7	525.9	484.0	437.2
-70°	600.7	574.9	547.2	521.6	496.0	464.5	430.7	397.4	359.6	330.4	303.1
-72.5°	366.8	348.5	331.5	315.1	296.6	285.8	274.9	260.7	243.9	224.0	199.7
-75°	205.6	206.0	203.5	197.6	189.4	180.9	169.8	157.9	143.8	123.6	116.0
-77.5°	133.9	130.5	126.6	122.1	117.3	112.0	106.2	100.0	93.9	87.3	80.7
-80°	89.0	86.6	83.9	81.2	78.1	74.5	70.6	66.5	62.4	58.1	53.5
-82.5°	53.3	52.0	50.5	48.9	47.1	44.8	42.4	39.9	37.5	34.9	32.3
-85°	27.6	27.0	26.4	25.7	24.9	23.9	22.9	21.8	20.6	19.4	18.2
-87.5°	10.3	10.0	9.6	9.2	8.7	8.2	7.7	7.1	6.8	6.4	6.0
-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: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: LSF120-XX-PC-90W-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°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
85°	0.8	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.7
82.5°	5.6	5.1	4.6	4.2	3.8	3.5	3.0	2.5	2.2	2.0	1.6
80°	13.1	12.1	10.6	9.4	8.5	7.6	6.6	5.7	4.9	4.1	3.4
77.5°	29.8	25.8	22.7	19.2	16.3	13.2	11.1	9.4	7.7	6.5	5.4
75°	55.1	49.0	42.6	36.6	30.0	25.0	20.1	15.9	12.4	9.2	7.5
72.5°	83.4	75.0	66.8	58.6	50.4	41.8	32.8	26.2	20.1	14.6	10.4
70°	126.1	111.9	94.3	82.4	71.3	60.9	50.2	39.4	30.2	22.4	15.5
67.5°	213.0	177.0	149.1	122.0	96.3	80.5	67.8	55.2	42.7	31.7	22.5
65°	344.4	297.3	239.2	189.4	148.3	109.1	87.0	71.2	56.7	42.5	30.4
62.5°	525.2	428.5	361.0	294.1	227.2	162.8	114.8	88.9	70.9	54.7	39.0
60°	726.8	617.2	506.3	408.0	327.9	241.0	164.2	112.0	86.2	66.8	49.4
57.5°	937.4	803.4	679.4	555.3	434.6	336.4	237.2	150.2	103.6	80.0	59.7
55°	1199.4	1011.5	851.5	712.3	571.7	438.5	323.5	213.9	130.5	94.1	69.8
52.5°	1419.1	1265.1	1046.1	867.4	712.4	559.5	418.1	289.0	176.4	109.0	81.5
50°	1624.4	1458.2	1290.2	1039.5	847.9	685.6	520.6	371.8	236.9	131.9	94.0
47.5°	1859.2	1637.2	1460.1	1245.0	995.8	802.8	632.2	460.2	303.3	169.8	108.3
45°	2073.9	1865.7	1609.4	1403.5	1160.1	925.7	739.3	553.6	375.7	221.8	126.6
42.5°	2227.5	2056.1	1790.3	1542.4	1316.2	1057.6	834.1	647.3	452.2	279.4	148.7
40°	2440.9	2183.8	1960.9	1669.9	1439.9	1192.1	939.9	737.1	531.5	336.2	183.3
37.5°	2566.2	2339.7	2097.3	1834.7	1558.4	1309.4	1047.9	814.5	605.9	393.9	223.7
35°	2727.4	2471.6	2193.8	1954.3	1663.8	1409.7	1151.4	892.5	675.7	452.3	265.0
32.5°	2863.3	2564.4	2342.9	2074.4	1792.5	1514.0	1243.1	974.5	740.8	510.5	305.8
30°	2941.6	2717.7	2436.6	2151.9	1880.5	1594.4	1320.7	1052.6	798.1	564.5	345.0
27.5°	3032.1	2806.5	2508.7	2257.2	1972.9	1678.1	1397.1	1123.6	850.8	614.3	383.9
25°	3145.3	2866.1	2608.4	2346.5	2061.7	1765.9	1473.3	1185.9	905.7	659.8	419.8
22.5°	3216.3	2936.3	2699.4	2405.1	2116.6	1826.6	1535.4	1242.1	958.2	701.0	454.2
20°	3267.3	3018.3	2744.8	2458.5	2183.3	1881.5	1587.5	1293.1	1005.0	737.7	487.4
17.5°	3314.5	3088.5	2794.9	2514.9	2247.3	1943.2	1637.1	1339.0	1045.2	770.1	516.8
15°	3392.1	3139.0	2837.5	2578.1	2295.1	1992.9	1683.1	1379.2	1079.2	799.0	542.5
12.5°	3448.6	3177.6	2887.9	2624.0	2336.2	2027.6	1720.3	1411.8	1107.0	824.0	564.4
10°	3493.2	3209.8	2923.1	2656.7	2372.6	2054.4	1748.4	1437.0	1130.0	845.2	582.6
7.5°	3528.2	3233.6	2948.9	2684.7	2393.1	2075.5	1767.7	1455.1	1147.9	862.2	597.1
5°	3545.1	3249.2	2968.7	2705.9	2404.8	2090.3	1780.6	1466.6	1160.2	875.0	607.9
2.5°	3554.0	3256.4	2977.3	2718.4	2410.0	2097.9	1786.9	1471.7	1167.0	883.4	615.1
0°	3553.4	3255.4	2973.6	2720.3	2408.7	2097.6	1786.3	1470.9	1168.4	887.4	618.6
-2.5°	3556.0	3260.0	2981.1	2720.9	2413.6	2101.2	1790.8	1476.6	1172.7	890.0	621.0
-5°	3549.0	3255.9	2977.2	2710.9	2411.6	2096.7	1788.1	1476.6	1171.4	888.1	619.9
-7.5°	3533.8	3242.7	2963.7	2692.5	2402.3	2084.8	1778.1	1470.9	1164.3	881.7	615.2
-10°	3504.4	3219.9	2943.2	2667.7	2383.5	2066.0	1760.8	1459.3	1151.3	870.9	606.8
-12.5°	3469.6	3188.1	2909.2	2638.5	2351.1	2041.0	1738.4	1441.7	1133.3	855.6	594.9
-15°	3420.4	3151.8	2857.8	2600.0	2314.8	2010.0	1710.2	1418.0	1112.2	836.1	579.5
-17.5°	3340.9	3108.2	2815.5	2547.1	2271.8	1970.8	1676.0	1385.3	1085.7	812.4	560.7
-20°	3285.9	3056.1	2765.9	2491.5	2211.3	1922.9	1633.3	1345.8	1053.8	786.7	538.4



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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°	3234.9	2965.8	2721.3	2430.7	2146.2	1864.8	1583.7	1301.1	1016.4	757.2	512.8
-25°	3173.1	2881.7	2638.7	2374.6	2089.2	1799.6	1530.2	1247.0	974.5	723.8	486.7
-27.5°	3064.9	2817.0	2542.5	2284.7	2011.0	1736.4	1471.4	1185.5	928.6	686.0	460.0
-30°	2947.5	2732.4	2458.8	2177.3	1920.6	1661.9	1405.5	1126.6	879.3	644.1	430.9
-32.5°	2864.4	2595.5	2357.1	2088.4	1814.1	1578.5	1329.8	1062.6	826.8	599.2	397.7
-35°	2739.5	2489.1	2213.8	1983.9	1726.8	1488.9	1235.5	997.1	771.8	551.4	360.9
-37.5°	2589.3	2345.5	2100.6	1838.0	1624.2	1393.2	1143.4	923.1	712.1	505.0	324.1
-40°	2439.2	2187.6	1969.4	1733.8	1513.7	1284.1	1051.2	843.7	647.9	461.1	289.0
-42.5°	2238.5	2053.9	1802.0	1609.0	1397.1	1167.2	958.0	764.8	579.1	410.8	255.2
-45°	2078.4	1842.9	1677.2	1476.6	1265.8	1052.5	854.3	681.3	512.6	355.3	225.6
-47.5°	1855.5	1700.2	1528.4	1336.0	1127.4	937.0	761.6	597.4	448.3	308.2	195.0
-50°	1678.3	1522.7	1370.0	1179.2	995.3	813.8	663.8	515.6	379.7	261.4	162.9
-52.5°	1480.7	1349.5	1188.7	1024.5	845.0	708.7	569.1	433.9	314.9	220.2	129.9
-55°	1295.9	1149.5	1009.3	855.7	728.9	599.7	471.5	360.1	257.4	178.2	97.4
-57.5°	1079.7	956.8	827.5	721.8	607.5	491.4	385.1	283.4	210.2	136.0	82.5
-60°	878.1	776.1	678.3	588.4	488.1	390.1	300.3	227.9	162.5	98.3	70.0
-62.5°	693.5	611.8	541.3	451.7	379.6	298.1	232.3	175.6	114.9	79.2	59.7
-65°	532.0	471.3	392.9	349.0	274.9	224.8	176.0	123.4	86.7	65.9	50.1
-67.5°	375.9	340.2	292.6	242.1	206.0	165.2	119.9	88.6	68.9	54.1	41.2
-70°	270.0	233.5	202.0	171.3	142.3	108.8	84.0	68.2	55.0	43.3	33.2
-72.5°	174.0	148.7	130.5	110.0	92.7	76.5	63.5	52.7	42.8	33.8	27.2
-75°	107.4	97.5	85.5	75.4	65.2	56.4	47.5	39.5	32.5	26.6	21.4
-77.5°	73.9	66.6	59.8	52.9	46.5	40.1	34.1	28.8	24.2	20.0	15.5
-80°	48.9	44.3	39.6	35.3	30.9	26.6	23.7	20.5	17.1	13.5	9.7
-82.5°	29.3	26.9	24.7	22.5	20.2	18.0	15.5	12.8	10.2	8.1	6.2
-85°	16.8	15.3	13.8	12.4	10.9	9.4	7.8	6.3	5.1	4.3	3.6
-87.5°	5.5	5.1	4.7	4.3	3.9	3.5	3.1	2.6	2.2	1.9	1.6
-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°	0.3	0.3	0.2	0.2	0.1	0.1	0.0
85°	0.6	0.6	0.5	0.4	0.3	0.2	0.0
82.5°	1.1	1.1	1.0	0.6	0.4	0.2	0.0
80°	2.7	2.0	1.6	1.1	0.6	0.3	0.0
77.5°	4.4	3.4	2.4	1.7	0.8	0.4	0.0
75°	6.2	4.9	3.6	2.3	1.3	0.5	0.0
72.5°	8.0	6.3	4.7	3.1	1.7	0.6	0.0
70°	10.2	8.0	5.9	4.0	2.2	0.6	0.0
67.5°	14.9	9.8	7.0	4.8	2.6	0.7	0.0
65°	20.4	12.8	8.5	5.7	3.2	0.9	0.0
62.5°	26.6	16.7	10.2	6.5	3.7	1.1	0.0
60°	33.7	21.2	11.9	7.4	4.3	1.4	0.0
57.5°	41.1	26.2	15.0	8.2	4.8	1.6	0.0
55°	49.6	31.4	18.0	9.6	5.3	1.8	0.0
52.5°	57.9	37.4	21.2	11.0	5.8	2.1	0.0
50°	66.0	43.3	24.9	12.3	6.3	2.3	0.0
47.5°	74.3	49.7	28.5	13.9	6.8	2.5	0.0
45°	84.8	55.9	32.2	15.9	7.3	2.7	0.0
42.5°	95.3	61.9	36.5	17.9	7.8	2.9	0.0
40°	108.5	67.7	40.6	19.9	8.2	3.1	0.0
37.5°	121.9	73.2	44.6	21.7	8.6	3.3	0.0
35°	138.4	80.3	48.6	23.8	9.3	3.5	0.0
32.5°	156.6	88.1	52.5	25.9	10.1	3.7	0.0
30°	174.4	95.7	56.2	27.9	10.8	3.9	0.0
27.5°	200.5	103.7	59.5	29.7	11.4	4.0	0.0
25°	226.2	113.3	62.7	31.4	12.1	4.2	0.0
22.5°	250.0	122.4	65.6	33.0	12.7	4.3	0.0
20°	272.4	131.2	68.3	34.6	13.2	4.4	0.0
17.5°	293.8	139.4	70.7	36.3	13.7	4.5	0.0
15°	312.8	148.0	72.8	37.8	14.2	4.7	0.0
12.5°	329.3	156.7	74.6	39.1	14.6	4.7	0.0
10°	343.4	164.4	76.2	40.2	14.9	4.8	0.0
7.5°	355.0	170.9	77.4	41.2	15.2	4.9	0.0
5°	364.1	176.4	78.4	41.9	15.5	4.9	0.0
2.5°	370.7	180.5	79.1	42.4	15.7	5.0	0.0
0°	374.9	183.3	79.5	42.7	15.8	5.0	0.0
-2.5°	377.2	185.1	79.9	42.8	15.9	5.0	0.0
-5°	377.0	185.4	80.1	42.7	16.0	5.0	0.0
-7.5°	374.3	184.4	79.9	42.4	15.9	5.0	0.0
-10°	368.9	181.8	79.4	41.9	15.9	4.9	0.0
-12.5°	361.0	177.9	78.5	41.2	15.7	4.9	0.0
-15°	350.3	172.6	77.3	40.2	15.5	4.8	0.0
-17.5°	337.0	166.6	75.7	39.1	15.2	4.8	0.0
-20°	321.0	160.0	73.8	37.8	14.9	4.7	0.0

Classified

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

Scaled Data Report



REPORT NUMBER: P622900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-90W-7030

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	304.1	152.1	71.4	36.5	14.5	4.6	0.0
-25°	285.8	142.8	68.6	35.3	14.0	4.5	0.0
-27.5°	265.5	132.1	65.9	33.9	13.5	4.3	0.0
-30°	244.0	121.9	63.0	32.3	12.9	4.2	0.0
-32.5°	226.1	111.0	59.8	30.6	12.2	4.0	0.0
-35°	206.6	98.6	56.4	28.7	11.5	3.9	0.0
-37.5°	186.4	87.6	52.8	26.9	10.8	3.7	0.0
-40°	165.7	81.3	49.0	25.3	10.3	3.5	0.0
-42.5°	143.4	74.4	45.1	23.6	9.8	3.3	0.0
-45°	121.7	68.0	40.9	21.8	9.3	3.1	0.0
-47.5°	98.2	62.2	37.4	19.9	8.7	2.9	0.0
-50°	85.7	56.2	33.9	18.2	8.0	2.7	0.0
-52.5°	74.7	50.3	30.2	16.5	7.3	2.4	0.0
-55°	66.3	44.2	27.1	14.7	6.7	2.2	0.0
-57.5°	58.1	38.8	24.2	12.8	6.2	1.9	0.0
-60°	50.4	33.6	21.3	11.4	5.6	1.7	0.0
-62.5°	42.8	29.1	18.5	10.0	5.0	1.4	0.0
-65°	36.1	25.2	15.7	8.5	4.3	1.1	0.0
-67.5°	30.4	21.3	13.1	7.2	3.7	0.9	0.0
-70°	25.6	17.5	10.7	6.1	3.2	0.8	0.0
-72.5°	20.7	13.8	8.2	5.1	2.6	0.7	0.0
-75°	15.8	10.2	6.6	4.0	2.0	0.6	0.0
-77.5°	10.8	7.4	5.0	3.1	1.4	0.5	0.0
-80°	7.3	5.2	3.6	2.2	1.0	0.4	0.0
-82.5°	4.6	3.5	2.4	1.4	0.8	0.3	0.0
-85°	2.8	2.0	1.4	0.9	0.5	0.2	0.0
-87.5°	1.3	1.0	0.7	0.5	0.3	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)