

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: P622902 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **LSF120-XX-PC-90W-7050**

Issue Date: 10/4/2022

Test Information

Test Method: LM-79-08
Report Number: P622902 (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-7050
Description: Flood light with selectable wattage and CCT
Light Source: (1) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

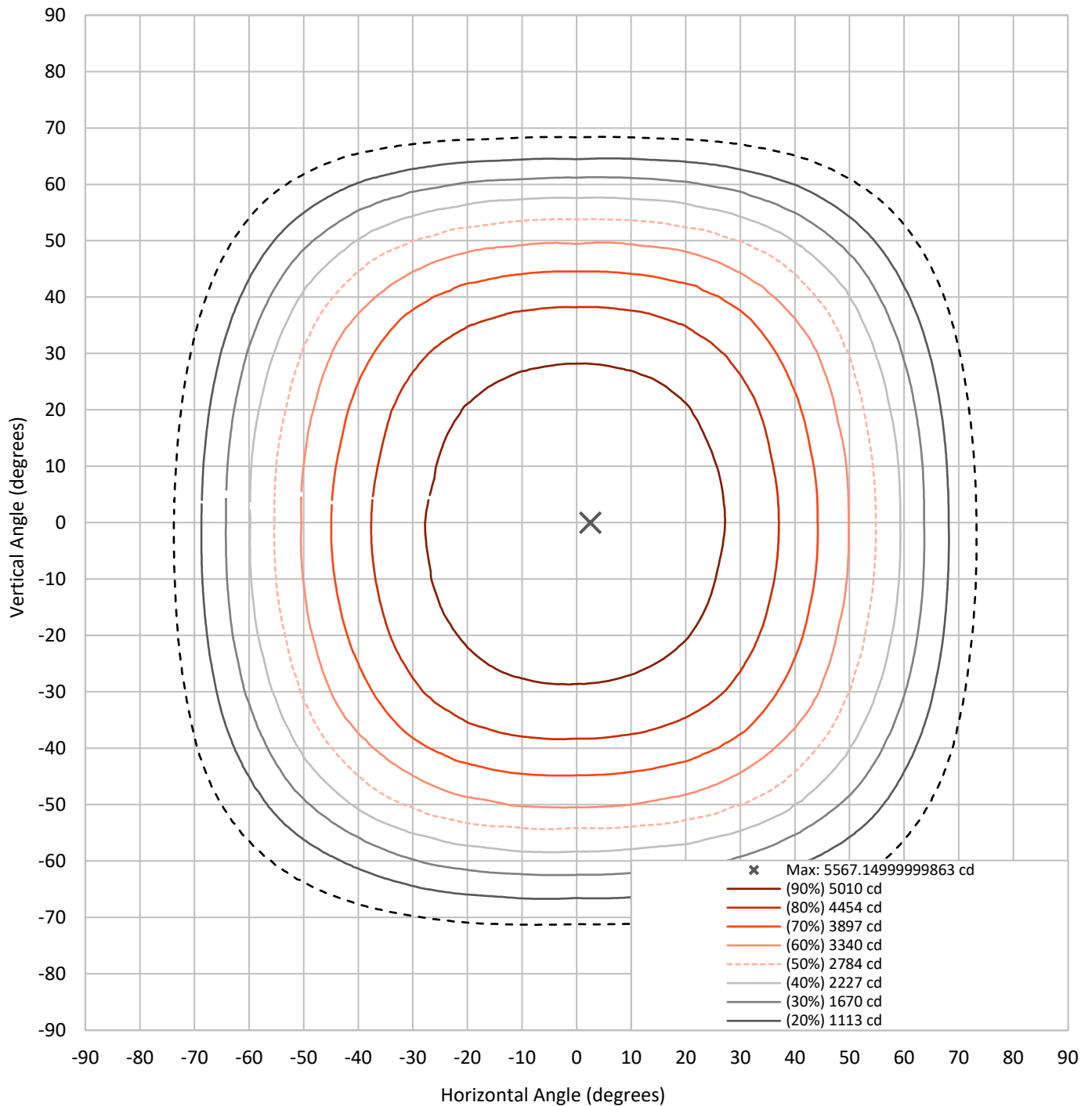
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14785.7 lumens	Max Intensity:	5567.1 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 0°V
Efficacy:	163.0 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:	11958.2 lumens	Field Lumens:	14540.1 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		



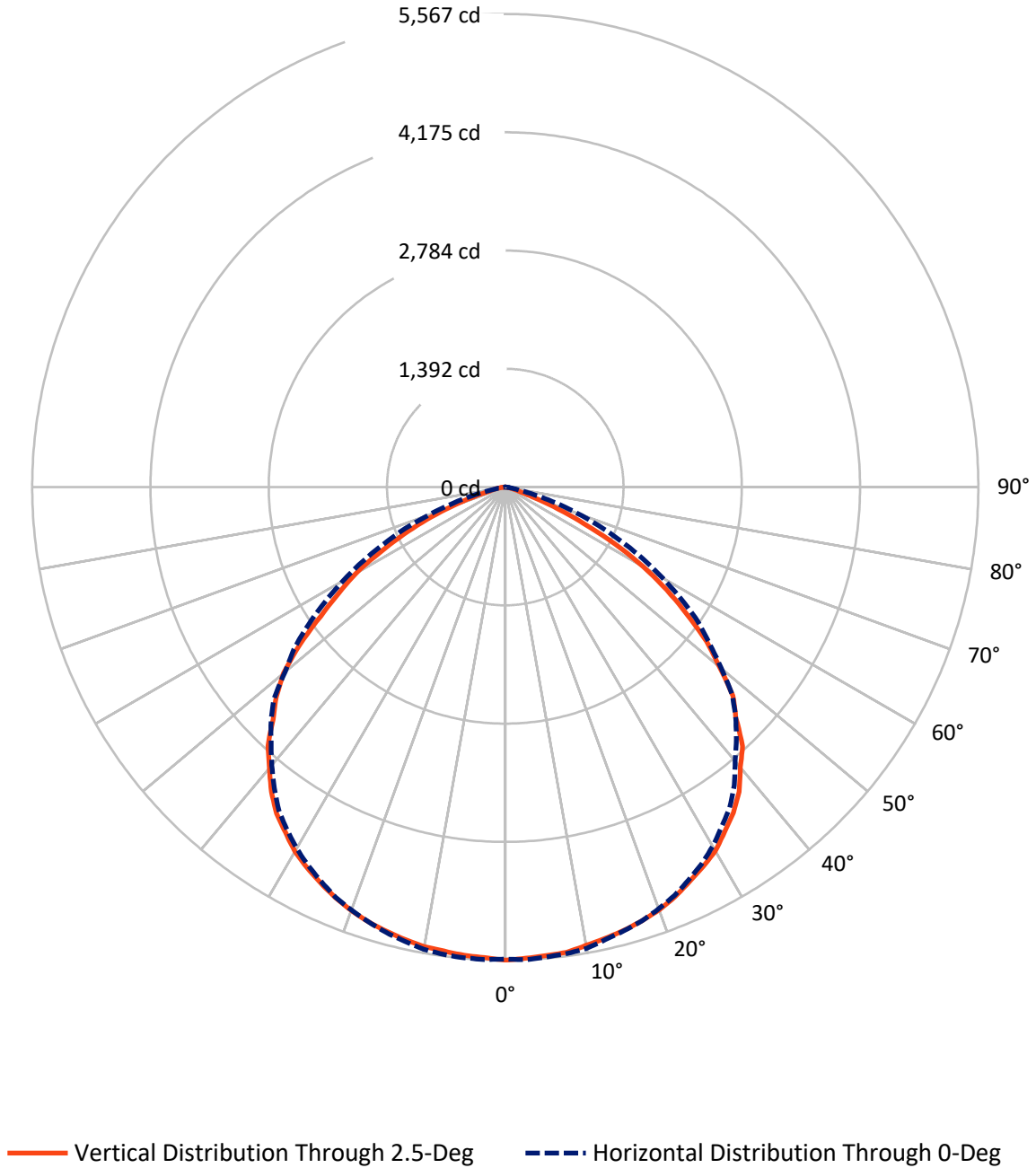
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Iso-Candela Plot



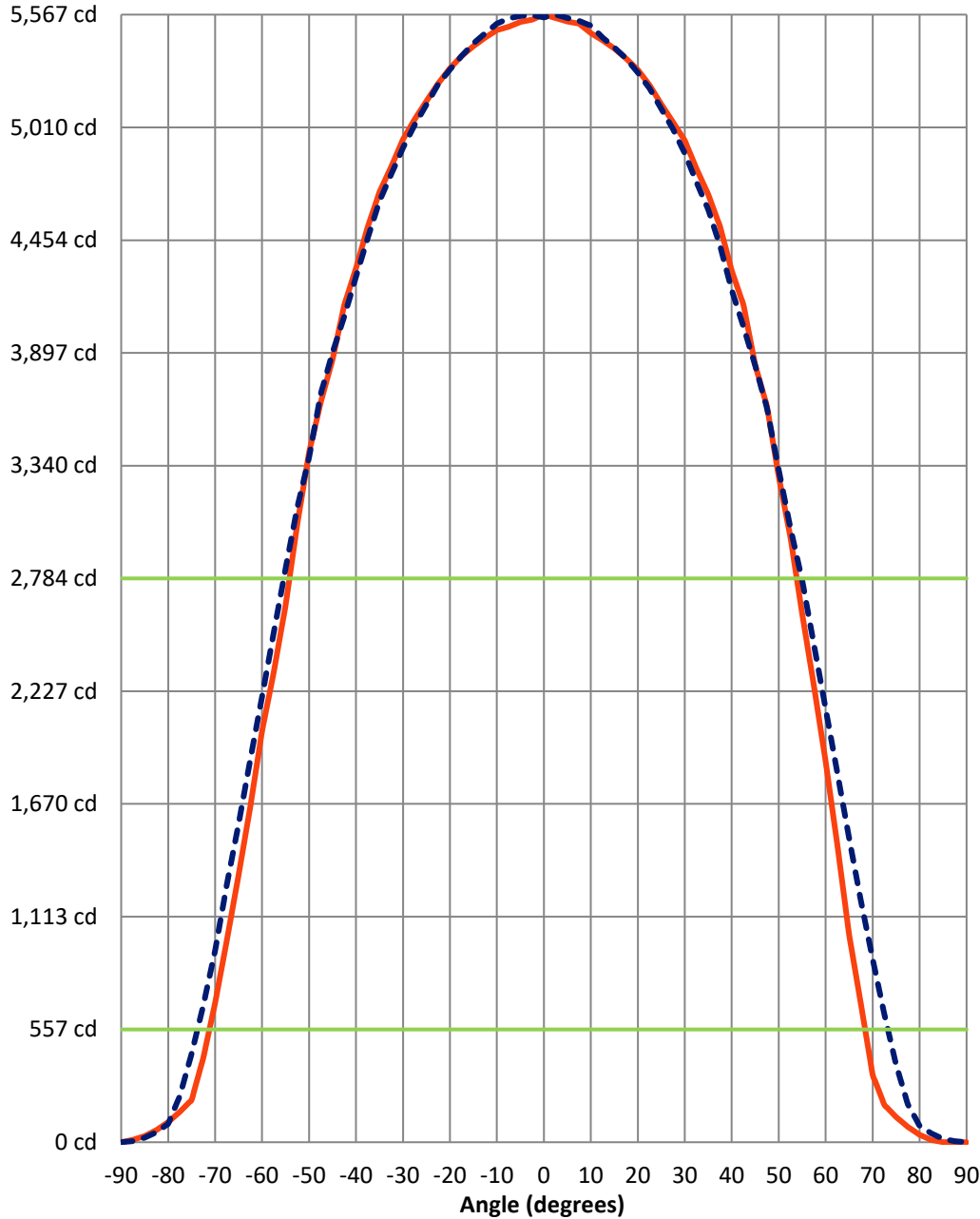
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 110.3°
 V Angle: 108°
 Lumens: 11958.2
 Efficiency: 80.9%

Field:
 H Angle: 147°
 V Angle: 139.6°
 Lumens: 14540.1
 Efficiency: 98.3%

Spill:
 Lumens: 245.6
 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	1.9	2.3	2.5	2.8
80°	0.0	0.6	1.1	1.5	1.8	2.2	3.2	4.0	4.7	5.6	6.5
77.5°	0.0	0.8	1.4	2.0	2.6	4.0	5.2	6.3	7.6	8.9	10.8
75°	0.0	0.9	1.7	2.4	4.0	5.8	7.3	8.8	10.7	14.2	17.9
72.5°	0.0	1.1	2.1	3.4	5.4	8.0	9.5	12.0	16.7	22.5	29.2
70°	0.0	1.2	2.5	4.4	7.4	10.2	12.1	17.8	25.0	34.0	43.9
67.5°	0.0	1.4	2.8	5.4	9.4	12.4	17.4	25.2	35.8	47.7	60.3
65°	0.0	1.5	3.3	6.8	11.5	15.7	23.3	34.2	48.0	62.2	77.2
62.5°	0.0	1.7	4.0	8.5	13.5	19.9	30.0	44.8	60.5	76.9	97.4
60°	0.0	1.9	4.7	10.2	15.6	24.6	38.4	55.4	72.7	93.5	127.5
57.5°	0.0	2.1	5.3	11.9	18.8	30.1	47.1	65.8	86.8	115.8	176.5
55°	0.0	2.3	5.9	13.6	21.9	35.9	55.8	76.0	103.2	152.0	251.4
52.5°	0.0	2.5	6.7	15.2	25.1	42.7	64.3	89.1	121.8	207.8	340.4
50°	0.0	2.6	7.8	16.9	29.2	49.3	72.9	104.0	154.1	278.2	424.4
47.5°	0.0	2.8	8.9	18.6	33.2	56.0	82.0	122.8	200.7	354.5	518.1
45°	0.0	3.0	10.0	20.7	37.2	62.4	94.8	147.6	261.2	427.3	613.7
42.5°	0.0	3.1	11.1	22.7	41.9	68.8	107.7	177.4	326.5	505.0	706.2
40°	0.0	3.3	12.1	24.6	46.4	75.3	125.8	218.9	388.9	584.9	795.3
37.5°	0.0	3.4	13.1	26.4	50.7	81.6	144.3	265.5	449.1	660.8	879.6
35°	0.0	3.6	14.1	28.6	54.9	90.5	166.1	312.3	508.6	732.3	965.5
32.5°	0.0	3.9	15.0	31.0	58.9	100.7	189.4	358.0	565.0	798.8	1052.8
30°	0.0	4.1	15.9	33.2	62.7	110.7	212.0	401.2	618.8	860.2	1130.5
27.5°	0.0	4.3	16.7	35.2	66.3	121.5	242.2	443.7	670.9	916.9	1202.4
25°	0.0	4.4	17.5	37.2	69.8	135.1	271.6	483.5	718.7	975.2	1273.3
22.5°	0.0	4.6	18.3	38.9	73.3	148.3	298.8	519.1	760.8	1031.1	1337.4
20°	0.0	4.7	19.0	40.7	76.5	160.9	324.2	549.3	798.6	1080.8	1391.0
17.5°	0.0	4.9	19.6	42.5	79.4	172.9	347.9	575.5	831.9	1124.7	1437.5
15°	0.0	5.0	20.2	44.0	82.1	184.5	368.9	597.8	861.5	1163.2	1477.2
12.5°	0.0	5.1	20.8	45.4	84.4	195.4	387.1	618.3	886.7	1196.2	1510.4
10°	0.0	5.2	21.3	46.5	86.4	205.1	402.6	637.9	907.5	1223.7	1536.4
7.5°	0.0	5.3	21.7	47.5	88.0	213.4	415.4	653.5	923.9	1245.2	1555.2
5°	0.0	5.3	22.0	48.3	89.3	220.3	425.5	665.3	935.9	1260.6	1567.1
2.5°	0.0	5.4	22.3	48.8	90.3	225.7	432.9	673.2	943.5	1269.8	1572.5
0°	0.0	5.4	22.5	49.1	90.9	229.6	437.7	677.1	946.7	1273.0	1571.7
-2.5°	0.0	5.4	22.5	49.2	91.4	230.7	439.5	679.0	950.5	1275.2	1574.8
-5°	0.0	5.4	22.5	49.1	91.5	230.1	438.7	677.0	949.8	1271.5	1571.9
-7.5°	0.0	5.4	22.4	48.8	91.1	227.9	435.2	671.2	944.6	1261.8	1563.1
-10°	0.0	5.4	22.2	48.3	90.4	224.2	429.0	661.4	934.6	1246.3	1548.3
-12.5°	0.0	5.3	21.9	47.6	89.2	218.8	420.2	647.8	919.9	1225.3	1527.6
-15°	0.0	5.3	21.6	46.7	87.5	211.9	408.7	634.0	900.3	1200.0	1501.0
-17.5°	0.0	5.2	21.2	45.5	85.3	203.5	394.5	619.2	875.8	1170.0	1468.5
-20°	0.0	5.1	20.7	44.2	82.6	193.6	377.7	601.2	848.8	1135.8	1430.3

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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	5.0	20.2	42.8	79.5	182.2	358.2	580.0	817.6	1095.5	1386.2
-25°	0.0	4.8	19.6	41.4	75.8	169.3	336.0	553.2	782.1	1049.5	1331.2
-27.5°	0.0	4.7	18.9	39.8	72.6	154.9	310.9	521.9	741.3	999.2	1270.4
-30°	0.0	4.5	18.2	38.1	69.5	141.8	284.4	488.4	696.4	945.1	1213.3
-32.5°	0.0	4.3	17.4	36.2	66.2	128.2	263.6	453.5	652.8	887.3	1151.5
-35°	0.0	4.1	16.5	34.1	62.6	113.1	241.0	416.3	610.6	828.6	1078.0
-37.5°	0.0	3.9	15.6	32.1	58.8	99.6	217.0	375.6	564.5	765.2	992.2
-40°	0.0	3.8	14.7	30.4	55.1	91.2	191.4	331.0	516.0	697.8	904.4
-42.5°	0.0	3.6	13.6	28.6	51.1	82.0	164.3	289.4	464.4	631.2	818.1
-45°	0.0	3.5	12.6	26.7	46.9	74.4	139.1	255.9	409.3	563.0	727.5
-47.5°	0.0	3.3	11.4	24.7	43.1	68.4	112.0	220.9	347.9	496.6	637.1
-50°	0.0	3.1	10.3	22.9	39.2	62.1	96.0	184.3	290.6	426.3	551.0
-52.5°	0.0	2.9	9.0	21.1	35.1	56.1	81.3	147.2	244.9	350.6	475.2
-55°	0.0	2.7	8.2	19.2	31.8	49.9	72.3	110.6	198.5	282.4	397.3
-57.5°	0.0	2.5	7.4	17.2	28.4	44.1	64.0	90.8	151.7	230.5	308.0
-60°	0.0	2.3	6.6	15.2	25.0	38.4	55.9	75.9	109.4	178.1	246.5
-62.5°	0.0	2.1	5.8	13.2	22.3	33.3	48.0	65.4	85.6	125.8	189.4
-65°	0.0	1.9	5.0	11.1	19.6	28.5	40.7	55.4	71.6	93.8	132.6
-67.5°	0.0	1.7	4.2	9.2	16.8	24.3	34.0	45.9	59.4	74.5	95.1
-70°	0.0	1.5	3.7	7.7	13.9	20.8	27.7	37.2	48.0	60.1	73.7
-72.5°	0.0	1.3	3.2	6.2	10.9	17.2	23.2	29.5	37.8	47.3	57.6
-75°	0.0	1.1	2.7	4.7	8.6	13.5	18.9	23.8	28.9	36.0	43.7
-77.5°	0.0	1.0	2.2	3.9	6.2	10.1	14.5	18.6	22.7	26.8	31.8
-80°	0.0	0.8	1.7	3.0	4.5	6.7	10.2	13.4	16.7	20.0	23.3
-82.5°	0.0	0.6	1.3	2.1	3.2	4.5	6.0	8.2	10.6	13.1	15.6
-85°	0.0	0.4	0.9	1.4	2.0	2.8	3.7	4.6	5.5	6.5	7.9
-87.5°	0.0	0.2	0.4	0.7	1.0	1.4	1.7	2.1	2.5	2.9	3.4
-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-90W-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°	0.4	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°	3.3	3.9	4.3	4.6	4.8	4.9	5.0	5.0	5.6	6.3	7.0
80°	7.5	8.6	9.3	9.8	10.6	12.5	14.0	15.4	17.7	19.7	21.6
77.5°	12.6	14.8	18.0	21.3	25.0	28.2	32.3	35.6	39.7	44.6	49.0
75°	22.3	27.6	32.8	39.9	46.0	52.4	58.5	64.3	70.2	76.9	82.6
72.5°	36.5	45.6	54.6	63.1	71.4	80.2	90.3	99.4	107.2	117.0	126.3
70°	54.9	65.9	76.9	90.1	105.4	125.1	140.8	149.4	177.7	208.3	232.5
67.5°	73.4	87.1	109.1	139.5	171.1	203.9	244.7	289.7	340.6	377.5	415.1
65°	95.4	124.8	172.4	221.1	282.5	338.8	407.2	477.9	545.2	597.0	646.3
62.5°	131.6	190.4	269.8	346.2	420.3	507.4	591.3	671.8	749.6	856.0	933.1
60°	192.6	286.0	383.5	482.2	582.8	680.0	776.0	914.7	1034.1	1145.5	1245.7
57.5°	280.0	391.0	510.4	632.4	743.6	870.1	1037.7	1167.5	1311.9	1440.8	1540.7
55°	377.3	506.8	645.7	780.6	941.5	1114.5	1267.4	1429.6	1565.0	1715.6	1800.6
52.5°	476.7	630.1	778.9	962.1	1158.6	1327.4	1504.9	1666.4	1803.2	1981.0	2154.5
50°	587.6	750.7	926.0	1154.6	1350.2	1546.0	1726.8	1871.9	2092.5	2247.7	2401.6
47.5°	695.8	869.7	1108.0	1317.4	1547.3	1748.8	1921.8	2148.2	2305.3	2508.6	2719.7
45°	800.9	1020.9	1248.5	1488.2	1722.2	1922.6	2164.8	2340.7	2562.8	2759.9	2906.3
42.5°	902.4	1152.4	1394.6	1645.7	1873.3	2148.5	2344.5	2567.1	2776.1	2941.9	3073.5
40°	1026.1	1274.5	1535.7	1794.6	2057.3	2292.2	2537.9	2760.0	2951.8	3095.2	3308.1
37.5°	1133.0	1395.5	1668.4	1911.4	2192.7	2449.5	2697.7	2935.5	3090.9	3320.1	3485.0
35°	1230.9	1509.3	1791.5	2070.3	2321.9	2581.7	2851.0	3060.6	3295.0	3482.9	3637.6
32.5°	1329.2	1617.7	1880.5	2177.4	2452.6	2718.7	2960.6	3202.0	3455.9	3618.3	3766.7
30°	1418.0	1720.9	1997.9	2278.8	2548.2	2833.2	3058.4	3344.6	3559.2	3719.0	3874.7
27.5°	1500.0	1803.3	2094.3	2379.6	2658.6	2911.3	3188.5	3429.6	3648.3	3802.2	3979.6
25°	1576.4	1865.2	2176.8	2461.3	2749.0	2996.6	3282.7	3523.6	3715.0	3897.2	4073.6
22.5°	1644.3	1940.8	2244.6	2516.5	2811.6	3090.6	3342.8	3605.8	3782.4	3963.0	4150.4
20°	1703.5	2006.8	2311.2	2603.3	2859.1	3167.9	3410.0	3664.4	3848.6	4029.2	4205.5
17.5°	1751.9	2065.4	2375.3	2669.0	2931.2	3215.4	3488.4	3712.7	3895.4	4077.5	4262.9
15°	1791.2	2117.3	2421.0	2716.9	2991.9	3263.0	3553.1	3755.8	3933.8	4111.2	4327.0
12.5°	1826.1	2153.4	2454.7	2759.5	3042.2	3302.2	3602.2	3798.7	3974.7	4151.2	4350.6
10°	1855.4	2177.4	2482.7	2787.9	3082.4	3342.6	3637.6	3834.2	4010.6	4202.0	4382.4
7.5°	1875.4	2193.8	2505.6	2809.9	3110.0	3371.9	3667.1	3861.5	4038.3	4238.6	4413.7
5°	1887.6	2202.9	2518.7	2824.9	3127.1	3386.7	3684.2	3881.7	4059.4	4262.5	4440.1
2.5°	1892.4	2205.0	2522.6	2832.6	3135.6	3388.9	3693.7	3894.2	4072.5	4273.9	4457.2
0°	1890.6	2200.6	2518.2	2832.3	3134.1	3380.7	3695.3	3898.5	4077.0	4273.3	4464.5
-2.5°	1895.1	2207.4	2523.5	2834.2	3138.2	3390.7	3697.8	3898.4	4078.3	4278.6	4464.4
-5°	1892.7	2207.2	2520.4	2828.1	3132.4	3390.4	3692.7	3889.8	4070.2	4271.3	4454.8
-7.5°	1882.6	2198.9	2507.8	2814.4	3118.5	3377.8	3680.2	3872.7	4053.0	4250.5	4436.6
-10°	1864.1	2181.9	2485.6	2793.5	3092.7	3351.0	3654.5	3847.6	4029.2	4215.8	4414.0
-12.5°	1837.8	2155.3	2460.3	2765.9	3051.1	3313.2	3622.0	3816.1	3996.5	4179.2	4384.9
-15°	1807.3	2118.8	2430.7	2724.5	2996.9	3276.1	3572.9	3779.2	3957.7	4144.2	4346.2
-17.5°	1773.4	2077.3	2389.8	2677.8	2940.0	3231.7	3502.8	3739.1	3913.9	4103.9	4284.9
-20°	1727.2	2033.5	2330.4	2611.7	2872.5	3189.1	3424.4	3689.4	3859.0	4040.8	4233.7

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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°	1667.2	1966.4	2262.0	2522.7	2825.1	3104.1	3358.1	3623.5	3803.8	3974.4	4177.4
-25°	1605.2	1888.3	2178.7	2475.8	2761.5	3008.4	3298.8	3536.4	3738.5	3893.3	4072.3
-27.5°	1544.6	1836.7	2113.5	2401.1	2665.2	2929.2	3203.2	3443.5	3660.9	3821.4	3981.0
-30°	1478.2	1754.6	2030.0	2299.3	2552.8	2853.7	3072.1	3359.3	3571.6	3735.6	3885.5
-32.5°	1403.7	1648.7	1906.8	2186.5	2472.1	2722.9	2982.6	3214.0	3469.8	3628.5	3787.8
-35°	1316.7	1561.1	1820.8	2100.6	2344.6	2584.3	2871.3	3079.8	3308.5	3493.0	3650.2
-37.5°	1225.9	1467.8	1699.5	1939.2	2209.1	2469.9	2695.7	2969.4	3113.4	3338.8	3491.9
-40°	1124.9	1365.6	1586.7	1817.7	2084.8	2313.7	2554.8	2766.0	2984.3	3123.5	3331.7
-42.5°	1021.4	1246.7	1473.9	1680.2	1898.6	2172.2	2375.9	2589.7	2790.4	2976.4	3107.8
-45°	917.6	1111.2	1352.9	1552.5	1748.5	1956.5	2192.4	2393.3	2597.9	2781.4	2943.9
-47.5°	812.6	992.3	1187.6	1419.4	1603.8	1770.2	1972.3	2180.6	2372.5	2567.5	2748.9
-50°	703.1	874.1	1038.3	1252.2	1450.9	1599.2	1751.7	1943.8	2136.2	2307.6	2492.2
-52.5°	592.9	749.5	909.3	1056.5	1266.3	1421.0	1559.4	1701.1	1873.1	2050.9	2189.6
-55°	499.8	620.2	769.9	916.2	1042.4	1216.0	1361.1	1486.7	1615.6	1749.1	1920.3
-57.5°	416.2	503.7	623.1	760.8	881.0	999.4	1128.2	1270.5	1378.8	1493.4	1612.7
-60°	322.4	414.8	488.8	596.3	716.3	818.0	925.6	1027.8	1141.6	1243.9	1347.1
-62.5°	248.1	314.9	396.0	458.5	539.2	646.3	737.3	809.5	917.5	998.1	1088.3
-65°	187.0	236.7	286.4	357.0	411.9	467.0	549.3	633.1	701.8	756.8	837.2
-67.5°	126.4	172.4	213.6	249.4	296.7	344.6	394.9	439.8	500.4	567.3	623.7
-70°	90.0	112.9	146.3	176.0	206.0	235.0	267.2	294.7	338.2	378.4	412.9
-72.5°	68.6	82.1	97.6	113.0	133.7	151.2	174.4	196.7	219.0	241.6	263.5
-75°	52.0	61.1	70.0	80.5	90.4	101.3	110.5	118.0	124.6	144.1	157.9
-77.5°	37.7	44.1	50.6	57.2	64.2	70.9	78.2	84.8	91.1	97.5	103.5
-80°	26.6	30.0	34.4	38.8	43.2	48.0	52.7	57.2	61.8	66.0	70.0
-82.5°	18.1	20.6	23.0	25.3	27.6	29.8	32.3	35.2	37.9	40.3	42.7
-85°	9.5	11.2	12.8	14.3	15.9	17.4	18.9	20.3	21.5	22.7	23.8
-87.5°	3.9	4.4	4.9	5.4	5.8	6.3	6.7	7.2	7.6	7.9	8.3
-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: P622902 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
85°	0.8	1.2	1.5	1.6	1.6	1.4	1.2	0.8	0.4	0.4	0.4
82.5°	7.9	8.5	8.9	9.0	9.1	9.2	9.5	10.0	10.4	10.7	11.0
80°	23.6	25.5	27.1	28.7	30.4	32.2	33.5	34.5	35.0	35.8	36.4
77.5°	53.0	56.7	59.9	62.8	65.4	67.7	69.7	71.2	72.5	73.8	74.9
75°	88.4	93.9	98.8	103.6	107.8	111.3	114.1	116.6	118.3	120.6	122.6
72.5°	139.4	149.7	152.9	155.0	160.5	165.4	169.7	173.1	175.6	178.5	181.0
70°	244.6	243.0	246.3	273.1	298.7	306.8	301.3	287.7	292.4	310.8	329.0
67.5°	450.4	481.9	512.6	542.1	569.9	592.8	611.0	624.1	631.9	645.4	662.4
65°	702.3	758.8	796.6	826.0	881.5	921.7	951.2	971.5	984.3	1002.7	1022.8
62.5°	1000.1	1078.0	1144.8	1207.5	1269.7	1310.5	1339.5	1365.4	1373.8	1379.8	1404.5
60°	1335.3	1421.0	1484.0	1539.0	1599.5	1670.3	1724.5	1756.6	1794.6	1811.1	1824.0
57.5°	1636.1	1708.9	1838.5	1919.7	1967.0	2026.5	2082.7	2148.2	2177.5	2183.1	2206.8
55°	1965.5	2069.0	2145.8	2245.5	2312.3	2340.7	2417.3	2483.8	2530.9	2553.0	2570.3
52.5°	2234.2	2371.3	2471.7	2545.8	2648.8	2737.1	2758.4	2799.8	2849.1	2901.5	2946.0
50°	2582.9	2675.8	2786.1	2861.0	2928.9	3036.5	3139.2	3168.1	3182.0	3189.3	3235.1
47.5°	2827.6	2920.5	3006.9	3164.1	3277.9	3342.7	3386.1	3453.0	3509.3	3554.3	3581.6
45°	3022.4	3162.9	3308.9	3405.1	3485.7	3551.4	3626.5	3702.1	3754.9	3771.5	3785.2
42.5°	3262.2	3401.4	3510.8	3608.7	3709.1	3830.1	3904.4	3926.8	3972.8	4042.0	4086.9
40°	3459.5	3595.8	3727.3	3839.5	3957.5	4009.5	4075.8	4149.3	4213.3	4233.1	4236.6
37.5°	3632.9	3804.2	3919.0	4035.2	4102.5	4186.9	4293.9	4328.2	4388.5	4438.5	4467.2
35°	3795.7	3946.4	4094.0	4163.4	4281.3	4362.1	4453.3	4501.8	4535.5	4592.1	4634.8
32.5°	3925.7	4077.5	4187.2	4326.2	4419.4	4509.8	4555.2	4624.5	4691.6	4730.2	4755.3
30°	4041.7	4178.5	4323.9	4440.6	4539.5	4594.1	4690.6	4768.4	4820.7	4848.5	4890.1
27.5°	4144.4	4290.7	4426.3	4540.6	4622.9	4720.5	4797.8	4853.1	4899.4	4950.4	4979.5
25°	4242.3	4386.5	4516.5	4615.0	4722.2	4803.5	4879.9	4946.0	5005.7	5042.5	5092.4
22.5°	4306.5	4471.1	4585.7	4701.2	4799.9	4891.2	4962.6	5033.7	5092.2	5142.8	5165.4
20°	4388.4	4529.0	4657.8	4774.2	4871.5	4956.9	5047.8	5103.6	5155.9	5210.0	5244.2
17.5°	4433.5	4582.2	4712.8	4837.7	4932.8	5019.2	5092.0	5161.6	5220.5	5268.6	5296.4
15°	4469.9	4627.7	4764.3	4875.2	4977.0	5064.2	5138.8	5207.4	5266.7	5308.7	5352.2
12.5°	4509.0	4658.5	4795.7	4916.2	5009.3	5098.0	5179.2	5244.0	5299.2	5356.2	5393.0
10°	4551.2	4682.1	4815.5	4937.8	5041.1	5132.9	5208.4	5273.3	5330.4	5385.8	5422.5
7.5°	4585.7	4724.7	4844.8	4955.4	5053.9	5159.1	5235.8	5301.8	5362.7	5413.6	5451.9
5°	4612.6	4753.0	4879.5	4984.7	5091.3	5186.7	5257.4	5321.6	5389.5	5433.9	5477.8
2.5°	4634.3	4770.1	4900.1	5009.4	5113.3	5207.6	5279.3	5346.3	5409.6	5455.6	5487.5
0°	4646.8	4779.1	4909.2	5022.9	5122.8	5223.4	5295.9	5363.4	5425.2	5475.2	5522.6
-2.5°	4642.1	4778.5	4907.4	5021.2	5123.6	5216.9	5294.9	5364.1	5424.1	5476.2	5516.3
-5°	4627.7	4769.0	4895.4	5006.6	5113.4	5203.9	5286.6	5357.8	5409.7	5456.5	5499.9
-7.5°	4607.5	4749.0	4871.5	4987.1	5088.7	5184.7	5266.3	5335.3	5386.3	5430.0	5468.4
-10°	4579.1	4716.5	4849.1	4970.8	5083.2	5163.9	5241.2	5311.6	5362.1	5403.5	5439.5
-12.5°	4538.5	4692.7	4829.7	4937.8	5042.7	5128.8	5217.3	5275.4	5334.0	5385.3	5416.2
-15°	4501.9	4662.0	4788.2	4899.4	5012.4	5108.8	5175.7	5243.7	5301.4	5338.5	5378.9
-17.5°	4465.2	4609.0	4741.8	4872.4	4954.6	5044.6	5131.6	5200.0	5249.0	5295.1	5322.7
-20°	4403.1	4557.5	4693.5	4797.8	4910.2	4988.8	5063.0	5141.5	5184.4	5234.0	5270.1

Classified

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

Scaled Data Report



REPORT NUMBER: P622902 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-90W-7050

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4332.4	4497.0	4619.2	4746.2	4830.1	4930.6	5000.7	5057.9	5119.5	5150.7	5190.7
-25°	4266.4	4403.5	4547.4	4657.2	4765.7	4840.0	4927.9	4990.9	5040.9	5071.6	5108.2
-27.5°	4164.8	4320.1	4456.4	4576.0	4675.6	4761.9	4833.8	4893.6	4962.2	4997.1	5016.7
-30°	4055.6	4209.6	4355.8	4484.9	4573.4	4649.3	4732.6	4804.5	4849.3	4879.7	4916.6
-32.5°	3935.9	4102.1	4222.1	4359.0	4466.8	4535.4	4598.5	4672.5	4726.3	4756.8	4782.8
-35°	3817.8	3964.2	4127.4	4204.0	4310.4	4403.3	4487.2	4532.1	4572.8	4624.5	4660.0
-37.5°	3646.9	3824.9	3947.5	4065.2	4145.5	4228.8	4321.5	4372.0	4426.4	4461.1	4488.3
-40°	3464.8	3600.7	3759.6	3876.9	3971.8	4052.5	4117.1	4189.4	4239.4	4266.0	4283.0
-42.5°	3299.2	3412.8	3524.4	3648.8	3756.1	3871.6	3924.6	3965.8	4013.9	4076.8	4111.6
-45°	3062.2	3218.2	3337.1	3437.0	3524.4	3604.1	3680.6	3751.0	3800.2	3821.7	3840.6
-47.5°	2869.5	2970.9	3103.9	3231.9	3318.0	3396.0	3460.7	3515.2	3559.9	3595.6	3621.9
-50°	2646.2	2757.1	2841.0	2933.9	3068.3	3161.7	3197.8	3230.0	3281.4	3348.4	3378.9
-52.5°	2328.0	2437.0	2588.2	2691.6	2757.2	2799.0	2877.7	2953.0	3003.8	3010.6	3029.3
-55°	2028.0	2128.7	2224.9	2301.4	2400.1	2527.4	2569.6	2592.0	2593.8	2597.6	2654.8
-57.5°	1730.0	1856.3	1925.5	1992.0	2065.2	2132.3	2185.0	2219.3	2262.2	2299.9	2329.7
-60°	1448.1	1544.8	1635.6	1721.1	1786.5	1815.0	1841.0	1901.7	1961.8	1996.1	2010.1
-62.5°	1179.6	1259.8	1336.8	1408.3	1470.4	1526.0	1566.0	1594.2	1611.2	1623.5	1640.7
-65°	905.4	972.7	1045.2	1114.0	1160.2	1201.5	1230.4	1249.1	1266.2	1299.8	1326.3
-67.5°	674.3	722.3	766.7	798.0	842.0	885.4	919.5	944.9	961.5	978.1	996.2
-70°	453.8	495.5	532.4	566.8	594.6	621.9	646.7	667.7	679.3	688.4	695.1
-72.5°	288.7	311.2	329.3	348.7	365.3	381.6	395.8	406.6	414.0	420.1	424.2
-75°	171.6	186.8	200.9	212.9	220.6	224.3	224.2	220.9	214.6	214.4	215.2
-77.5°	109.5	115.4	121.1	125.8	130.0	133.8	137.1	139.9	142.8	146.0	148.4
-80°	74.0	77.7	81.2	84.2	86.9	89.6	91.8	93.6	95.1	96.5	97.7
-82.5°	45.1	47.4	49.6	51.3	52.8	54.2	55.4	56.5	57.5	58.4	59.1
-85°	24.9	25.8	26.8	27.5	28.1	28.6	29.0	29.4	29.7	30.0	30.2
-87.5°	8.8	9.3	9.8	10.2	10.5	10.8	11.1	11.3	11.5	11.7	11.8
-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: P622902 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-90W-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	0.3	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°	11.2	11.2	11.1	10.9	11.0	11.1	11.0	10.8	10.5	10.1	9.7
80°	36.8	36.9	36.8	36.4	36.7	36.7	36.5	36.0	35.4	34.5	33.9
77.5°	75.5	75.8	75.7	75.2	75.6	75.7	75.3	74.6	73.4	71.9	70.4
75°	123.9	124.5	124.5	123.8	124.3	124.2	123.4	122.0	119.9	117.5	115.6
72.5°	182.9	184.0	184.3	183.8	184.3	183.9	182.7	180.7	177.8	174.9	172.8
70°	337.9	338.9	333.1	322.0	333.2	339.7	341.0	336.5	325.6	314.3	309.1
67.5°	674.1	680.2	680.4	674.6	681.9	683.1	678.3	667.6	651.2	639.6	633.0
65°	1032.0	1031.3	1021.4	1003.4	1023.5	1035.2	1037.3	1028.7	1008.3	986.2	970.2
62.5°	1431.7	1448.8	1455.9	1453.0	1464.8	1468.1	1464.5	1455.2	1435.0	1414.6	1395.0
60°	1840.7	1857.0	1868.4	1870.3	1878.2	1875.4	1865.1	1850.5	1834.7	1808.1	1768.6
57.5°	2235.2	2249.1	2249.5	2240.1	2252.6	2254.7	2242.4	2214.7	2193.8	2185.2	2154.6
55°	2587.0	2599.8	2606.9	2606.4	2608.5	2602.9	2591.2	2575.1	2557.7	2542.7	2515.1
52.5°	2971.0	2980.4	2984.0	2977.6	2986.0	2984.7	2978.2	2960.9	2931.9	2891.0	2818.1
50°	3275.6	3289.2	3281.4	3257.6	3287.4	3300.8	3292.0	3255.2	3207.3	3189.8	3171.0
47.5°	3607.2	3623.4	3631.1	3630.6	3633.1	3627.5	3613.8	3589.5	3560.1	3516.1	3465.6
45°	3813.0	3829.8	3836.1	3832.6	3836.9	3831.8	3816.9	3792.0	3779.0	3767.5	3712.3
42.5°	4118.5	4128.9	4133.6	4130.8	4132.9	4126.7	4113.7	4087.1	4048.7	3977.9	3931.9
40°	4268.6	4288.4	4295.3	4292.1	4303.0	4301.7	4283.0	4245.7	4236.6	4215.7	4170.5
37.5°	4483.6	4509.9	4520.2	4518.3	4521.2	4512.2	4487.8	4473.4	4448.5	4409.5	4335.6
35°	4656.3	4669.4	4678.9	4682.4	4679.1	4669.6	4656.0	4637.2	4597.7	4540.9	4503.8
32.5°	4777.3	4793.1	4802.3	4801.2	4806.3	4804.0	4790.2	4754.4	4725.2	4692.2	4639.8
30°	4928.4	4929.9	4941.5	4951.7	4945.3	4932.0	4918.1	4889.6	4849.4	4818.4	4764.9
27.5°	5002.9	5022.8	5034.7	5034.3	5036.2	5028.7	5008.9	4984.3	4952.6	4930.1	4853.9
25°	5105.0	5116.5	5124.4	5124.5	5124.7	5117.4	5105.9	5095.0	5048.2	5016.5	4951.2
22.5°	5201.7	5218.0	5221.7	5219.3	5218.9	5208.5	5194.5	5165.4	5142.6	5098.5	5039.2
20°	5273.1	5289.1	5290.0	5291.8	5294.9	5294.3	5276.5	5246.9	5208.9	5155.6	5104.3
17.5°	5332.7	5347.5	5354.0	5354.5	5350.7	5345.4	5332.2	5306.1	5265.9	5216.9	5158.8
15°	5381.5	5390.2	5399.6	5403.8	5399.9	5388.2	5376.6	5353.9	5306.6	5256.9	5209.1
12.5°	5418.4	5435.0	5439.2	5439.5	5440.1	5436.6	5416.9	5387.4	5345.3	5299.2	5244.4
10°	5449.6	5465.6	5478.0	5475.5	5476.1	5469.8	5457.6	5419.2	5383.0	5339.2	5280.1
7.5°	5487.7	5500.4	5508.5	5507.1	5522.4	5504.6	5492.2	5463.3	5416.2	5371.3	5310.3
5°	5505.2	5529.1	5535.7	5534.5	5533.2	5525.4	5516.5	5488.6	5446.9	5393.8	5332.9
2.5°	5516.1	5532.6	5544.0	5543.8	5550.3	5543.3	5533.6	5496.2	5457.6	5402.8	5345.7
0°	5548.6	5560.4	5564.8	5553.6	5567.1	5550.7	5536.3	5512.4	5454.2	5404.8	5350.5
-2.5°	5542.6	5550.1	5557.6	5552.7	5542.5	5528.7	5514.2	5479.0	5442.7	5391.2	5339.0
-5°	5522.0	5535.4	5539.6	5528.8	5530.9	5512.4	5505.9	5464.7	5423.3	5373.2	5320.9
-7.5°	5502.8	5508.6	5512.8	5509.2	5507.3	5490.0	5484.8	5448.5	5399.4	5355.9	5298.6
-10°	5470.7	5487.1	5492.3	5501.2	5490.6	5473.4	5454.5	5428.6	5382.8	5335.2	5278.6
-12.5°	5449.2	5455.3	5460.8	5464.9	5453.8	5441.0	5427.1	5394.5	5356.3	5306.0	5252.1
-15°	5408.6	5415.9	5418.3	5412.6	5411.3	5405.1	5380.8	5348.3	5316.0	5265.0	5206.0
-17.5°	5348.8	5366.6	5371.1	5368.2	5363.4	5351.3	5333.7	5303.8	5264.5	5214.0	5161.3
-20°	5287.9	5303.0	5311.9	5306.6	5302.2	5288.5	5270.5	5244.3	5204.0	5155.1	5110.1



REPORT NUMBER: P622902 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7050

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5216.6	5224.1	5231.5	5227.3	5227.4	5218.3	5202.5	5171.1	5132.3	5089.0	5027.0
-25°	5121.6	5142.5	5146.6	5137.3	5140.3	5131.1	5107.8	5086.8	5042.6	5001.1	4947.2
-27.5°	5038.5	5053.9	5056.3	5051.2	5050.6	5041.0	5019.8	4990.0	4957.8	4917.6	4856.7
-30°	4941.6	4951.1	4958.9	4960.4	4950.9	4934.8	4916.7	4887.2	4850.4	4812.0	4764.2
-32.5°	4808.7	4821.5	4823.7	4817.4	4816.4	4807.7	4788.4	4755.9	4727.6	4689.5	4629.8
-35°	4675.6	4688.0	4695.8	4697.6	4691.2	4679.9	4666.2	4643.2	4598.8	4540.8	4495.6
-37.5°	4506.1	4524.0	4527.4	4518.4	4519.5	4506.8	4479.2	4457.5	4428.7	4383.3	4319.7
-40°	4307.4	4320.2	4321.6	4313.3	4315.5	4307.4	4286.7	4253.2	4231.2	4200.3	4147.0
-42.5°	4132.8	4139.6	4140.3	4133.0	4133.3	4125.2	4110.5	4076.8	4033.0	3973.7	3931.4
-45°	3858.2	3869.2	3872.5	3867.2	3864.5	3852.6	3832.3	3804.2	3787.5	3762.6	3699.6
-47.5°	3642.4	3655.4	3659.5	3654.6	3653.9	3643.9	3624.5	3598.5	3567.0	3526.3	3475.3
-50°	3393.6	3406.4	3411.9	3404.7	3404.8	3391.1	3368.0	3340.0	3299.7	3237.8	3191.1
-52.5°	3049.7	3059.8	3060.2	3051.8	3051.9	3043.2	3024.5	2995.3	2968.1	2952.0	2886.1
-55°	2681.6	2682.3	2663.3	2631.0	2650.3	2657.8	2648.7	2618.1	2563.4	2556.2	2542.7
-57.5°	2338.5	2339.8	2333.5	2317.5	2322.7	2316.5	2299.3	2273.0	2240.0	2213.2	2184.8
-60°	2024.2	2035.0	2039.0	2032.7	2030.5	2017.4	1996.6	1971.0	1943.5	1904.3	1852.2
-62.5°	1653.7	1661.5	1663.3	1658.0	1657.4	1649.7	1635.8	1616.4	1592.6	1575.6	1554.2
-65°	1338.2	1337.7	1326.8	1308.1	1319.7	1323.4	1316.8	1297.8	1264.1	1224.2	1203.0
-67.5°	1006.1	1008.4	1004.2	994.7	997.4	995.1	987.0	972.3	948.7	921.0	898.7
-70°	698.8	699.0	695.2	686.9	687.8	684.7	678.5	670.1	660.4	650.7	636.3
-72.5°	425.6	423.9	419.0	410.8	418.0	421.8	422.2	419.3	413.1	402.8	389.9
-75°	214.9	213.7	211.6	208.8	208.8	208.1	206.7	204.6	201.8	200.5	206.4
-77.5°	149.9	150.7	150.9	150.4	150.3	149.8	148.7	147.0	144.7	142.0	139.4
-80°	98.6	99.1	99.3	99.2	99.3	99.0	98.4	97.4	96.1	94.5	92.8
-82.5°	59.6	59.8	59.9	59.8	59.8	59.6	59.2	58.6	57.8	56.8	55.7
-85°	30.3	30.4	30.4	30.3	30.3	30.2	30.0	29.7	29.4	29.0	28.6
-87.5°	11.9	11.9	12.0	12.0	11.9	11.8	11.7	11.5	11.3	11.1	10.8
-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: P622902 (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	1.4	1.5	1.5	1.5	1.2	0.8	0.5	0.6	0.6	0.6
82.5°	9.2	8.9	8.7	8.6	8.5	8.3	8.1	7.8	7.4	6.8	6.2
80°	32.9	31.5	29.7	27.9	26.2	24.4	22.4	20.3	18.5	16.4	14.2
77.5°	68.6	66.5	64.0	61.3	58.3	55.1	51.5	47.4	42.9	38.0	33.7
75°	113.0	109.9	106.1	101.6	96.3	91.0	85.2	79.5	74.2	68.4	62.3
72.5°	169.1	163.6	157.7	152.0	148.8	144.0	132.9	119.8	110.8	101.7	93.6
70°	311.0	307.8	296.5	272.8	242.0	228.6	228.0	218.1	193.7	164.0	136.5
67.5°	616.8	595.3	568.3	535.2	497.5	460.1	423.8	376.6	321.1	299.8	264.5
65°	947.6	915.4	893.3	868.9	808.3	741.3	685.8	626.3	563.3	494.2	412.2
62.5°	1364.2	1322.0	1266.3	1192.8	1120.0	1053.5	994.7	904.5	809.7	728.6	633.1
60°	1737.0	1687.1	1614.0	1569.1	1497.8	1404.2	1293.0	1200.0	1109.4	984.3	850.6
57.5°	2096.1	2034.8	1959.4	1910.8	1829.4	1699.4	1622.8	1512.4	1383.9	1260.2	1119.9
55°	2448.5	2349.2	2302.1	2232.8	2131.7	2028.8	1933.0	1775.8	1667.8	1523.1	1369.1
52.5°	2753.0	2728.8	2673.7	2573.6	2450.6	2357.4	2212.2	2091.7	1937.1	1766.9	1608.7
50°	3150.2	3059.6	2939.0	2844.6	2777.6	2679.3	2538.3	2386.9	2198.2	2039.9	1847.9
47.5°	3392.9	3341.2	3274.4	3176.1	3007.4	2897.8	2812.6	2671.9	2481.8	2255.3	2095.6
45°	3628.2	3547.7	3473.1	3382.7	3297.7	3166.1	3000.4	2880.6	2712.1	2519.1	2277.6
42.5°	3907.0	3848.2	3705.6	3601.9	3467.7	3366.3	3257.1	3052.1	2912.0	2710.2	2518.6
40°	4075.4	4010.9	3950.9	3838.8	3719.3	3547.7	3404.4	3271.0	3069.4	2918.5	2676.4
37.5°	4289.5	4206.0	4103.1	4019.0	3907.9	3783.9	3597.5	3423.0	3258.9	3059.5	2896.7
35°	4460.7	4356.2	4274.3	4167.4	4070.6	3924.0	3769.8	3596.4	3417.3	3204.8	3026.4
32.5°	4559.9	4497.6	4423.5	4307.8	4180.7	4050.3	3891.7	3732.4	3569.8	3380.8	3118.8
30°	4694.3	4616.5	4518.7	4438.3	4303.7	4159.2	4005.7	3838.8	3673.8	3501.3	3261.6
27.5°	4800.0	4718.4	4641.2	4518.9	4411.1	4273.9	4108.1	3934.3	3771.5	3587.7	3362.4
25°	4890.5	4810.8	4722.8	4618.0	4497.7	4360.0	4220.1	4015.9	3837.4	3668.4	3447.2
22.5°	4971.9	4897.8	4792.3	4699.7	4578.5	4450.4	4291.4	4113.7	3923.6	3744.9	3530.3
20°	5047.0	4955.2	4865.1	4758.1	4643.2	4514.7	4354.1	4180.1	3978.0	3798.0	3605.7
17.5°	5089.1	5014.5	4916.4	4809.8	4704.7	4557.3	4416.7	4229.6	4039.0	3854.3	3664.6
15°	5137.3	5051.7	4963.6	4871.4	4737.2	4612.4	4455.5	4285.4	4079.1	3893.5	3707.4
12.5°	5180.9	5097.3	5004.4	4893.6	4783.9	4651.4	4482.9	4326.7	4111.2	3928.9	3749.6
10°	5216.1	5131.9	5038.5	4938.8	4821.5	4667.0	4517.8	4361.7	4150.5	3967.0	3783.2
7.5°	5241.0	5165.9	5070.4	4963.3	4845.9	4699.5	4554.8	4390.4	4186.2	3996.5	3808.8
5°	5260.9	5189.2	5085.7	4985.2	4863.0	4724.3	4583.4	4411.0	4206.7	4015.2	3825.9
2.5°	5274.7	5199.0	5097.2	4998.0	4875.8	4738.1	4600.2	4423.2	4213.1	4024.7	3834.4
0°	5281.0	5202.9	5102.1	5001.6	4882.2	4739.9	4604.1	4426.7	4207.5	4025.8	3834.2
-2.5°	5268.0	5189.3	5091.6	4994.0	4872.5	4738.4	4599.6	4426.0	4217.2	4027.4	3837.2
-5°	5245.3	5168.6	5073.5	4978.9	4854.1	4725.6	4584.6	4416.1	4215.9	4020.3	3831.7
-7.5°	5229.9	5146.8	5051.8	4950.8	4826.9	4701.4	4562.9	4398.0	4202.6	4004.1	3818.1
-10°	5208.4	5126.3	5029.8	4926.1	4809.5	4667.4	4534.4	4375.1	4176.3	3980.5	3796.7
-12.5°	5180.5	5098.5	5002.6	4894.2	4788.3	4646.5	4495.6	4344.9	4133.3	3950.9	3765.0
-15°	5140.9	5059.1	4965.0	4861.6	4741.8	4616.7	4460.2	4302.5	4091.7	3913.8	3721.8
-17.5°	5097.6	5009.5	4920.0	4822.5	4694.0	4566.5	4422.3	4246.9	4052.8	3872.6	3677.5
-20°	5035.8	4948.3	4863.9	4756.2	4648.3	4508.1	4363.7	4184.0	4011.1	3819.9	3624.1



REPORT NUMBER: P622902 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7050

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4957.8	4886.6	4794.6	4699.4	4573.9	4450.7	4293.1	4123.1	3941.0	3756.3	3553.9
-25°	4883.2	4809.4	4729.1	4620.3	4502.7	4365.0	4215.2	4057.3	3862.9	3681.9	3461.6
-27.5°	4796.7	4730.0	4642.3	4533.5	4414.3	4274.5	4124.9	3952.4	3781.3	3602.8	3383.0
-30°	4692.9	4615.4	4536.1	4439.1	4309.9	4164.1	4021.2	3850.0	3685.4	3510.7	3294.8
-32.5°	4564.3	4501.7	4413.5	4315.6	4180.8	4059.7	3895.6	3738.5	3582.4	3409.7	3140.1
-35°	4437.2	4347.3	4269.3	4158.5	4076.2	3917.2	3770.0	3614.9	3439.1	3229.4	3020.6
-37.5°	4269.5	4184.4	4093.3	4018.8	3898.3	3777.0	3623.1	3445.8	3267.3	3053.5	2893.5
-40°	4067.7	4010.7	3936.7	3822.8	3715.0	3598.1	3424.0	3261.3	3061.5	2916.9	2699.1
-42.5°	3895.6	3809.9	3692.5	3612.8	3505.5	3368.9	3221.4	3044.3	2912.8	2727.4	2533.3
-45°	3623.7	3557.0	3487.6	3391.1	3286.3	3146.4	2999.5	2883.9	2727.2	2543.6	2293.4
-47.5°	3411.4	3347.3	3276.3	3175.1	3031.6	2907.9	2817.8	2696.9	2515.4	2273.1	2113.2
-50°	3159.8	3102.8	2988.4	2863.0	2788.3	2697.3	2583.4	2425.0	2221.9	2076.7	1857.5
-52.5°	2803.6	2746.8	2694.4	2608.9	2503.7	2394.6	2245.6	2129.8	1992.5	1796.3	1655.6
-55°	2493.2	2417.2	2339.6	2274.4	2180.4	2061.3	1981.8	1832.2	1695.9	1564.5	1435.4
-57.5°	2161.3	2107.6	1999.1	1931.8	1875.7	1787.9	1675.3	1558.1	1437.5	1347.9	1228.7
-60°	1801.7	1774.0	1743.6	1670.0	1580.6	1485.8	1386.7	1315.0	1217.6	1106.0	1000.6
-62.5°	1520.4	1473.5	1410.0	1339.6	1287.0	1233.6	1131.3	1050.3	964.6	871.4	806.7
-65°	1186.2	1165.9	1109.7	1036.3	997.0	945.7	872.8	808.6	755.4	670.4	601.3
-67.5°	875.8	851.3	818.6	776.2	725.8	681.9	635.8	586.1	536.2	493.6	445.8
-70°	612.6	586.2	558.0	531.9	505.8	473.6	439.2	405.2	366.7	336.9	309.2
-72.5°	374.0	355.3	338.0	321.2	302.4	291.4	280.3	265.9	248.7	228.4	203.6
-75°	209.7	210.2	207.5	201.5	193.1	184.4	173.2	161.0	146.6	126.1	118.3
-77.5°	136.5	133.0	129.0	124.5	119.7	114.3	108.3	102.0	95.7	89.1	82.4
-80°	90.8	88.4	85.6	82.8	79.7	76.0	72.0	67.9	63.7	59.3	54.6
-82.5°	54.4	53.0	51.6	49.9	48.0	45.7	43.2	40.7	38.2	35.6	32.9
-85°	28.1	27.6	26.9	26.2	25.4	24.4	23.3	22.2	21.0	19.8	18.5
-87.5°	10.5	10.1	9.7	9.3	8.9	8.3	7.8	7.2	6.8	6.5	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: P622902 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-90W-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	0.4	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	0.9	0.8	0.8	0.7
82.5°	5.7	5.2	4.7	4.3	3.9	3.6	3.0	2.5	2.3	2.1	1.7
80°	13.4	12.4	10.8	9.6	8.7	7.8	6.8	5.8	5.0	4.2	3.4
77.5°	30.3	26.3	23.2	19.6	16.6	13.5	11.4	9.7	7.9	6.7	5.5
75°	56.2	49.9	43.4	37.4	30.5	25.5	20.5	16.2	12.7	9.5	7.7
72.5°	85.0	76.5	68.1	59.8	51.4	42.6	33.4	26.7	20.5	15.0	10.6
70°	128.6	114.1	96.1	84.1	72.7	62.1	51.2	40.2	30.8	22.8	15.9
67.5°	217.2	180.6	152.1	124.4	98.1	82.1	69.1	56.3	43.6	32.3	23.0
65°	351.2	303.1	243.9	193.2	151.2	111.2	88.7	72.6	57.8	43.4	31.0
62.5°	535.6	436.9	368.1	299.9	231.8	166.0	117.1	90.6	72.3	55.8	39.8
60°	741.2	629.3	516.3	416.0	334.4	245.8	167.5	114.2	87.9	68.1	50.4
57.5°	955.9	819.2	692.8	566.2	443.1	343.0	241.9	153.1	105.6	81.6	60.9
55°	1223.1	1031.4	868.3	726.3	583.0	447.1	329.9	218.1	133.0	95.9	71.1
52.5°	1447.0	1290.1	1066.7	884.5	726.4	570.5	426.3	294.7	179.8	111.1	83.1
50°	1656.4	1486.9	1315.7	1060.0	864.6	699.1	530.9	379.1	241.6	134.5	95.8
47.5°	1895.9	1669.5	1488.9	1269.6	1015.5	818.6	644.6	469.2	309.3	173.1	110.4
45°	2114.8	1902.5	1641.2	1431.2	1183.0	944.0	753.9	564.5	383.1	226.2	129.1
42.5°	2271.4	2096.6	1825.6	1572.8	1342.2	1078.5	850.5	660.1	461.1	284.8	151.6
40°	2489.0	2226.9	1999.6	1702.9	1468.3	1215.7	958.4	751.6	542.0	342.8	186.9
37.5°	2616.8	2385.8	2138.7	1870.9	1589.2	1335.2	1068.6	830.7	617.9	401.6	228.1
35°	2781.1	2520.4	2237.1	1992.8	1696.6	1437.5	1174.1	910.1	689.1	461.2	270.2
32.5°	2919.8	2615.0	2389.1	2115.3	1827.9	1544.0	1267.6	993.7	755.5	520.5	311.9
30°	2999.5	2771.2	2484.7	2194.4	1917.6	1625.8	1346.8	1073.4	813.9	575.7	351.8
27.5°	3091.8	2861.9	2558.2	2301.8	2011.9	1711.2	1424.7	1145.8	867.6	626.5	391.5
25°	3207.4	2922.6	2659.8	2392.8	2102.4	1800.7	1502.4	1209.3	923.5	672.9	428.1
22.5°	3279.7	2994.2	2752.6	2452.6	2158.3	1862.7	1565.7	1266.6	977.1	714.8	463.2
20°	3331.7	3077.7	2798.9	2507.1	2226.4	1918.7	1618.8	1318.6	1024.8	752.3	497.0
17.5°	3379.8	3149.4	2850.0	2564.5	2291.7	1981.6	1669.3	1365.4	1065.8	785.3	527.0
15°	3458.9	3200.9	2893.5	2628.9	2340.4	2032.3	1716.3	1406.4	1100.5	814.7	553.2
12.5°	3516.6	3240.2	2944.8	2675.7	2382.3	2067.6	1754.3	1439.6	1128.8	840.3	575.6
10°	3562.1	3273.1	2980.7	2709.1	2419.4	2094.9	1782.9	1465.3	1152.3	861.8	594.1
7.5°	3597.8	3297.4	3007.0	2737.6	2440.3	2116.5	1802.6	1483.8	1170.5	879.2	608.9
5°	3615.0	3313.3	3027.2	2759.2	2452.2	2131.6	1815.7	1495.5	1183.1	892.2	619.9
2.5°	3624.0	3320.7	3036.0	2772.0	2457.5	2139.3	1822.1	1500.7	1190.0	900.9	627.2
0°	3623.5	3319.6	3032.2	2773.9	2456.1	2139.0	1821.6	1499.9	1191.4	904.9	630.8
-2.5°	3626.1	3324.3	3039.9	2774.5	2461.2	2142.6	1826.1	1505.7	1195.8	907.6	633.3
-5°	3618.9	3320.1	3035.9	2764.3	2459.2	2138.1	1823.3	1505.7	1194.5	905.6	632.1
-7.5°	3603.4	3306.6	3022.1	2745.6	2449.7	2125.9	1813.2	1499.9	1187.3	899.1	627.3
-10°	3573.5	3283.4	3001.2	2720.3	2430.5	2106.7	1795.6	1488.0	1174.1	888.0	618.8
-12.5°	3538.0	3251.0	2966.6	2690.6	2397.5	2081.3	1772.7	1470.1	1155.7	872.5	606.6
-15°	3487.9	3213.9	2914.1	2651.3	2360.5	2049.7	1743.9	1445.9	1134.2	852.6	590.9
-17.5°	3406.8	3169.5	2871.0	2597.4	2316.5	2009.7	1709.0	1412.6	1107.1	828.4	571.7
-20°	3350.7	3116.4	2820.4	2540.6	2254.8	1960.8	1665.4	1372.4	1074.5	802.2	549.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3298.6	3024.2	2775.0	2478.6	2188.5	1901.6	1614.9	1326.8	1036.5	772.1	522.9
-25°	3235.7	2938.5	2690.8	2421.4	2130.4	1835.1	1560.3	1271.6	993.7	738.0	496.3
-27.5°	3125.3	2872.5	2592.7	2329.7	2050.7	1770.7	1500.3	1208.9	946.9	699.5	469.1
-30°	3005.7	2786.3	2507.2	2220.2	1958.5	1694.6	1433.2	1148.8	896.6	656.9	439.4
-32.5°	2920.9	2646.7	2403.6	2129.6	1849.9	1609.6	1356.0	1083.5	843.0	611.0	405.5
-35°	2793.5	2538.2	2257.4	2023.0	1760.9	1518.2	1259.9	1016.7	786.9	562.3	368.1
-37.5°	2640.3	2391.7	2142.0	1874.2	1656.2	1420.6	1165.9	941.3	726.1	514.9	330.5
-40°	2487.4	2230.8	2008.2	1768.0	1543.5	1309.4	1071.9	860.3	660.7	470.2	294.6
-42.5°	2282.6	2094.4	1837.5	1640.6	1424.6	1190.2	976.8	779.9	590.5	418.9	260.2
-45°	2119.4	1879.2	1710.2	1505.6	1290.7	1073.2	871.1	694.8	522.7	362.3	230.1
-47.5°	1892.1	1733.7	1558.5	1362.3	1149.6	955.4	776.6	609.2	457.2	314.3	198.8
-50°	1711.4	1552.7	1397.0	1202.4	1014.9	829.9	676.9	525.8	387.2	266.6	166.1
-52.5°	1509.8	1376.1	1212.2	1044.7	861.7	722.6	580.4	442.5	321.1	224.5	132.5
-55°	1321.4	1172.1	1029.2	872.6	743.2	611.5	480.8	367.2	262.4	181.7	99.3
-57.5°	1101.0	975.7	843.8	736.0	619.5	501.2	392.7	289.0	214.3	138.7	84.2
-60°	895.4	791.4	691.7	600.0	497.8	397.8	306.2	232.3	165.7	100.3	71.4
-62.5°	707.2	623.9	552.0	460.7	387.1	304.0	236.9	179.0	117.2	80.8	60.9
-65°	542.5	480.6	400.6	355.9	280.3	229.3	179.5	125.8	88.4	67.2	51.1
-67.5°	383.3	346.9	298.4	246.9	210.0	168.4	122.3	90.4	70.3	55.2	42.0
-70°	275.4	238.1	205.9	174.7	145.1	110.9	85.6	69.5	56.1	44.2	33.9
-72.5°	177.4	151.6	133.1	112.2	94.5	78.0	64.7	53.7	43.6	34.5	27.8
-75°	109.5	99.4	87.1	76.9	66.5	57.5	48.4	40.3	33.1	27.1	21.8
-77.5°	75.4	67.9	61.1	54.0	47.4	40.9	34.7	29.3	24.7	20.4	15.9
-80°	49.9	45.2	40.4	35.9	31.5	27.1	24.1	20.9	17.4	13.8	9.9
-82.5°	29.9	27.5	25.2	22.9	20.6	18.3	15.8	13.0	10.4	8.3	6.3
-85°	17.1	15.6	14.1	12.6	11.1	9.6	7.9	6.4	5.2	4.4	3.6
-87.5°	5.6	5.2	4.8	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°	1.2	1.2	1.0	0.6	0.4	0.2	0.0
80°	2.8	2.1	1.6	1.2	0.6	0.3	0.0
77.5°	4.5	3.5	2.5	1.8	0.8	0.4	0.0
75°	6.3	5.0	3.7	2.4	1.3	0.5	0.0
72.5°	8.1	6.5	4.8	3.2	1.8	0.6	0.0
70°	10.4	8.1	6.0	4.1	2.3	0.6	0.0
67.5°	15.3	10.0	7.2	4.9	2.7	0.7	0.0
65°	20.8	13.0	8.6	5.8	3.3	0.9	0.0
62.5°	27.1	17.1	10.4	6.7	3.8	1.1	0.0
60°	34.4	21.6	12.1	7.5	4.4	1.4	0.0
57.5°	41.9	26.7	15.3	8.4	4.9	1.6	0.0
55°	50.6	32.0	18.4	9.8	5.4	1.9	0.0
52.5°	59.1	38.2	21.6	11.2	5.9	2.1	0.0
50°	67.3	44.2	25.4	12.6	6.5	2.3	0.0
47.5°	75.8	50.7	29.1	14.1	7.0	2.6	0.0
45°	86.5	57.0	32.8	16.3	7.4	2.8	0.0
42.5°	97.1	63.1	37.2	18.3	7.9	3.0	0.0
40°	110.6	69.0	41.5	20.3	8.4	3.2	0.0
37.5°	124.3	74.6	45.5	22.2	8.8	3.4	0.0
35°	141.1	81.9	49.6	24.3	9.5	3.6	0.0
32.5°	159.6	89.9	53.5	26.4	10.3	3.8	0.0
30°	177.8	97.6	57.2	28.4	11.0	4.0	0.0
27.5°	204.4	105.7	60.7	30.3	11.7	4.1	0.0
25°	230.6	115.5	63.9	32.1	12.3	4.3	0.0
22.5°	254.9	124.8	66.9	33.7	12.9	4.4	0.0
20°	277.8	133.8	69.6	35.3	13.5	4.5	0.0
17.5°	299.6	142.2	72.0	37.0	14.0	4.6	0.0
15°	319.0	150.9	74.2	38.5	14.4	4.8	0.0
12.5°	335.8	159.8	76.1	39.9	14.9	4.8	0.0
10°	350.2	167.6	77.7	41.0	15.2	4.9	0.0
7.5°	362.0	174.3	79.0	42.0	15.5	5.0	0.0
5°	371.3	179.8	80.0	42.7	15.8	5.0	0.0
2.5°	378.1	184.1	80.7	43.2	16.0	5.1	0.0
0°	382.3	186.9	81.1	43.5	16.1	5.1	0.0
-2.5°	384.7	188.7	81.6	43.7	16.2	5.1	0.0
-5°	384.5	189.1	81.7	43.6	16.3	5.1	0.0
-7.5°	381.7	188.0	81.5	43.3	16.2	5.1	0.0
-10°	376.2	185.4	81.0	42.7	16.2	5.1	0.0
-12.5°	368.1	181.4	80.1	42.0	16.0	5.0	0.0
-15°	357.2	176.0	78.9	41.0	15.8	4.9	0.0
-17.5°	343.6	169.9	77.2	39.9	15.5	4.9	0.0
-20°	327.3	163.2	75.2	38.5	15.2	4.8	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	310.1	155.1	72.8	37.3	14.8	4.7	0.0
-25°	291.5	145.6	69.9	36.0	14.3	4.6	0.0
-27.5°	270.7	134.7	67.1	34.5	13.7	4.4	0.0
-30°	248.8	124.3	64.2	32.9	13.1	4.3	0.0
-32.5°	230.5	113.2	61.0	31.2	12.5	4.1	0.0
-35°	210.7	100.6	57.5	29.3	11.7	4.0	0.0
-37.5°	190.1	89.4	53.8	27.4	11.0	3.8	0.0
-40°	169.0	82.9	50.0	25.8	10.5	3.6	0.0
-42.5°	146.2	75.9	46.0	24.0	10.0	3.4	0.0
-45°	124.1	69.3	41.8	22.2	9.5	3.2	0.0
-47.5°	100.2	63.5	38.2	20.3	8.8	2.9	0.0
-50°	87.4	57.3	34.5	18.5	8.2	2.7	0.0
-52.5°	76.2	51.3	30.8	16.8	7.4	2.5	0.0
-55°	67.7	45.1	27.7	15.0	6.9	2.2	0.0
-57.5°	59.3	39.6	24.7	13.1	6.3	2.0	0.0
-60°	51.4	34.3	21.7	11.7	5.7	1.7	0.0
-62.5°	43.6	29.7	18.9	10.2	5.1	1.4	0.0
-65°	36.8	25.7	16.1	8.7	4.4	1.1	0.0
-67.5°	31.0	21.8	13.4	7.3	3.8	0.9	0.0
-70°	26.1	17.9	10.9	6.3	3.2	0.8	0.0
-72.5°	21.2	14.1	8.3	5.2	2.6	0.7	0.0
-75°	16.1	10.4	6.7	4.1	2.0	0.6	0.0
-77.5°	11.1	7.5	5.1	3.2	1.4	0.5	0.0
-80°	7.5	5.3	3.7	2.3	1.0	0.4	0.0
-82.5°	4.7	3.6	2.5	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)