

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLL100FSUNVDBZK-80W-3000K

Issue Date: 4/3/2023

Test Information

Test Method: LM-79-2019
Report Number: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 4/3/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: GFL100FSUNVDBZK-80W-3000K
Description: SLIM LED FLOODLIGHT
Light Source:
Ballast/Driver: -

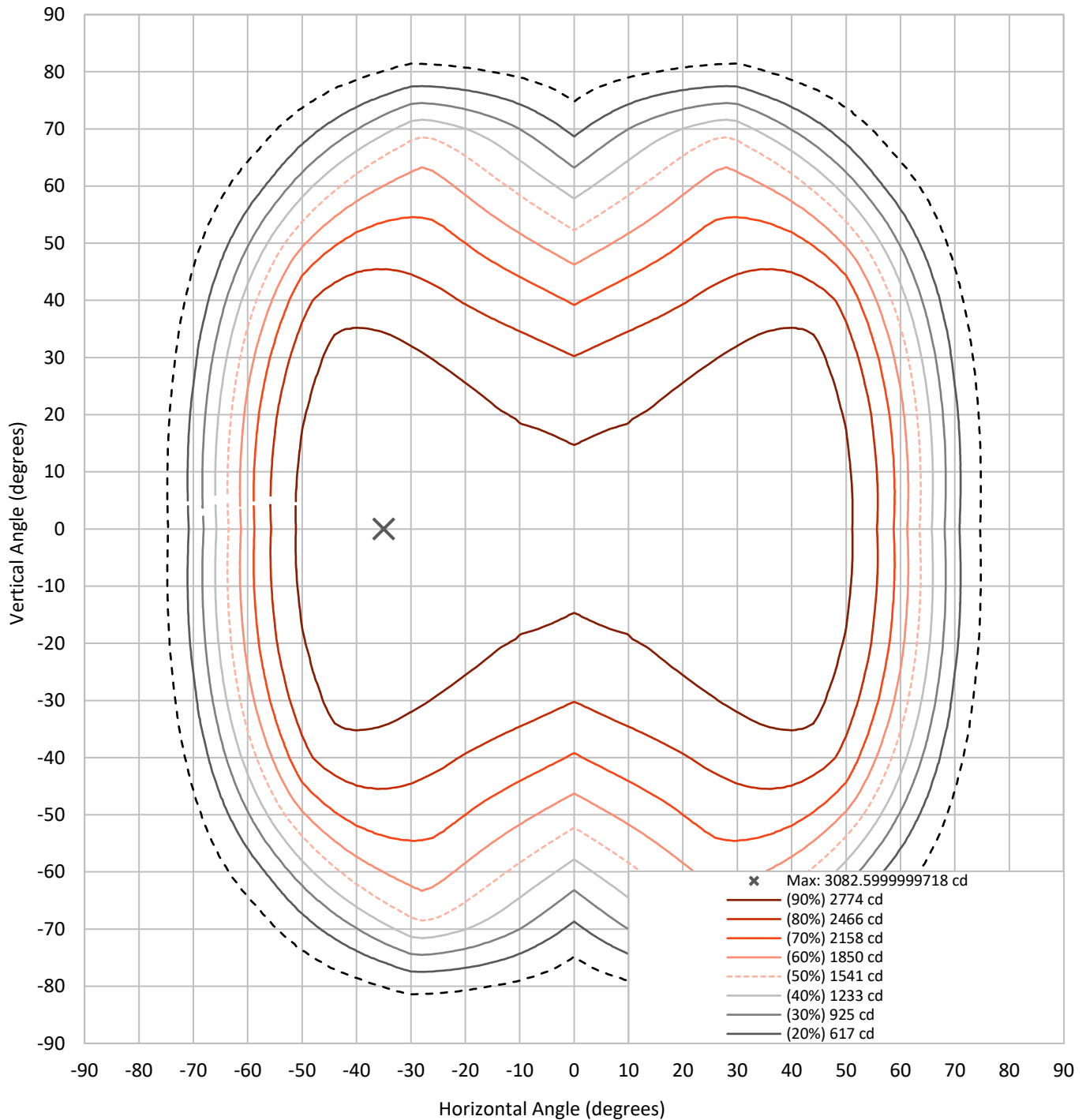
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10603.7 lumens	Max Intensity:	3082.6 candela
Efficiency:	N/A	Max Intensity Angle:	-35°H x 0°V
Efficacy:	133.4 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 0.56' x H: 0.18')		
Beam Angle (50%):	127°H x 130.8°V	Field Angle (10%):	149.3°H x 160.3°V
Beam Lumens:	9203.7 lumens	Field Lumens:	10474.6 lumens
Beam Efficiency:	86.8%	Field Efficiency:	98.8%
Input Watts (W):	79.5		
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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CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

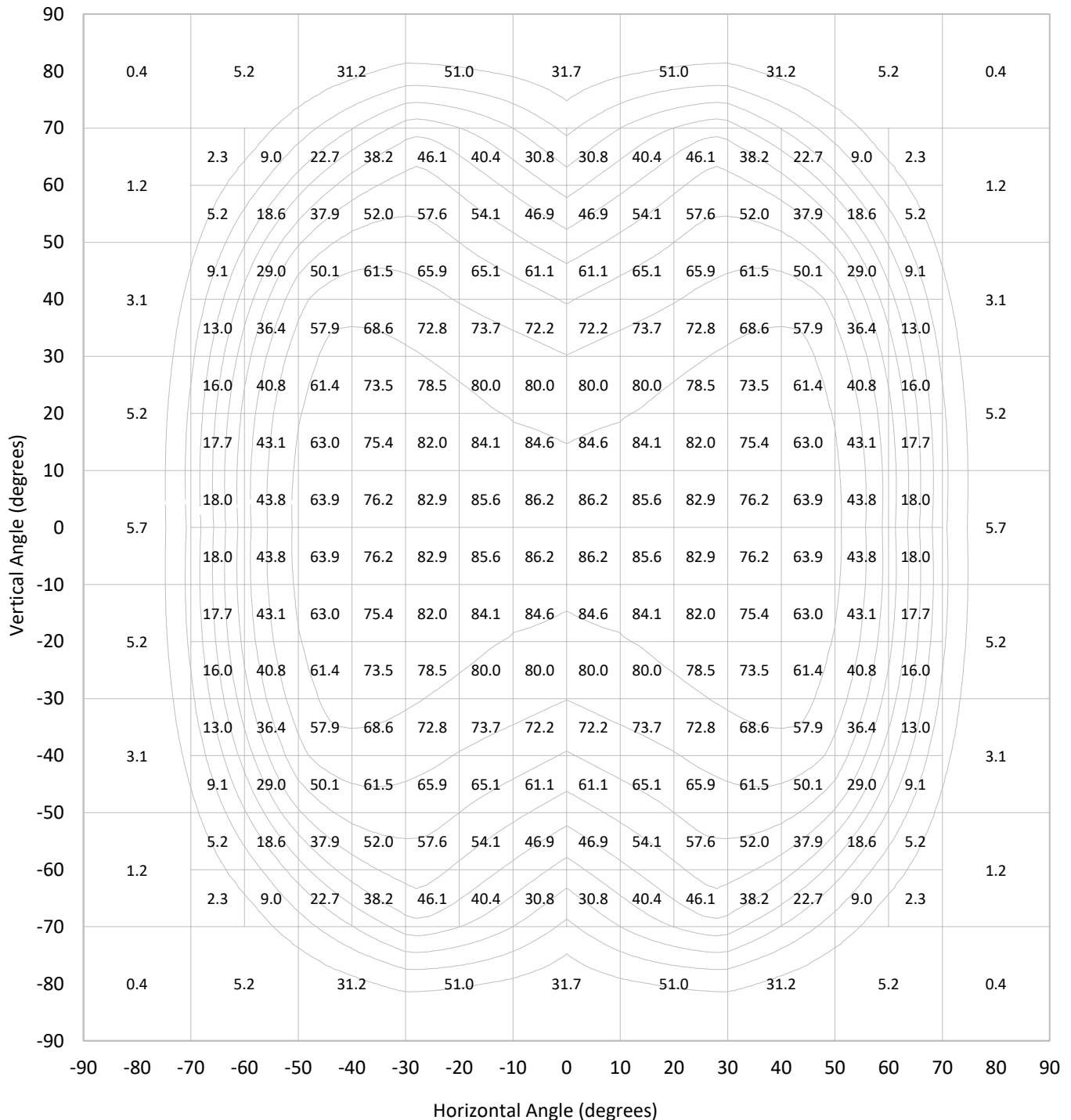
Iso-Candela Plot





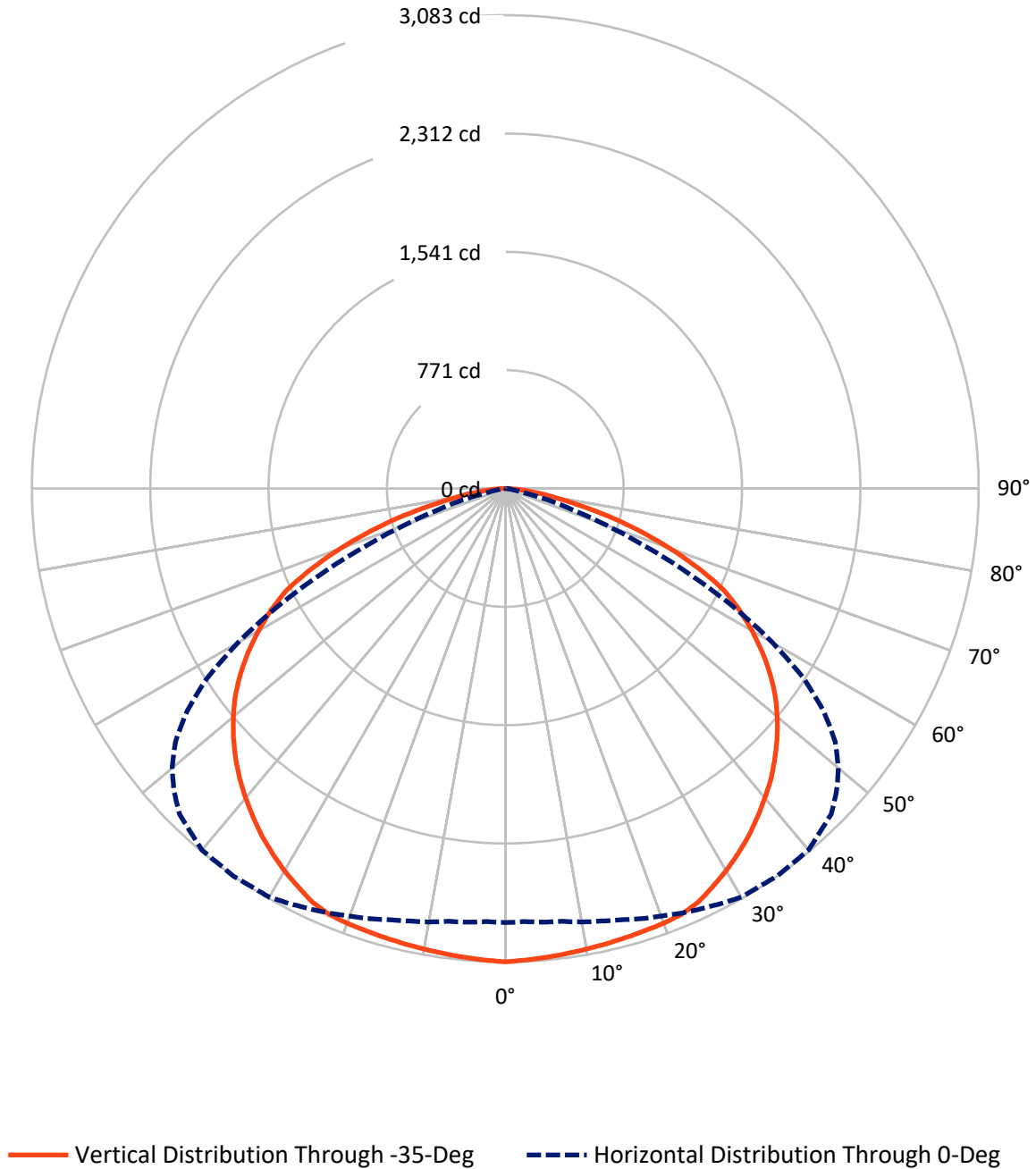
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Lumen Table



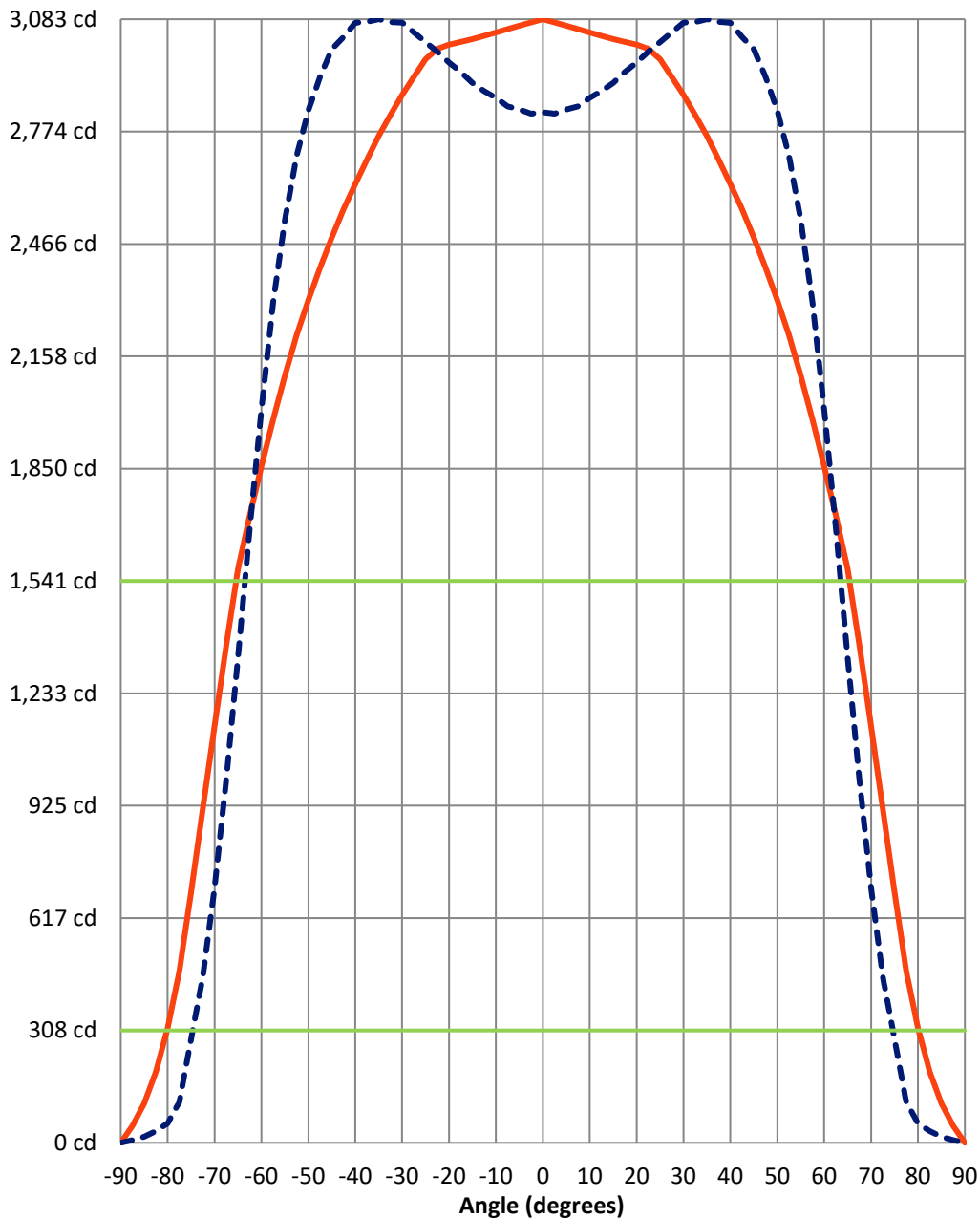
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CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 127°
 V Angle: 130.8°
 Lumens: 9203.7
 Efficiency: 86.8%

Field:
 H Angle: 149.3°
 V Angle: 160.3°
 Lumens: 10474.6
 Efficiency: 98.8%

Spill:
 Lumens: 129.1
 Efficiency: 1.2%

— Vertical Distribution through -35-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	0.4	1.1	2.0	3.1	4.4	5.9	7.6	9.5	11.7	13.9
85°	0.0	0.9	2.2	4.0	6.1	8.8	11.8	15.2	19.0	23.3	27.8
82.5°	0.0	1.3	3.3	5.9	9.2	13.1	17.6	22.7	28.2	33.4	38.8
80°	0.0	1.7	4.3	7.8	12.1	17.3	23.1	28.8	34.8	41.3	48.1
77.5°	0.0	2.2	5.4	9.7	15.0	21.2	27.4	34.1	41.3	49.0	57.3
75°	0.0	2.6	6.4	11.6	17.8	24.4	31.5	39.3	47.7	57.2	67.0
72.5°	0.0	3.0	7.4	13.4	20.1	27.5	35.5	44.5	54.8	65.4	76.5
70°	0.0	3.4	8.4	15.0	22.3	30.4	39.5	50.3	61.6	73.7	99.1
67.5°	0.0	3.8	9.3	16.5	24.4	33.3	44.1	55.9	68.5	94.8	124.0
65°	0.0	4.1	10.2	17.9	26.5	36.5	48.5	61.2	85.3	115.1	155.4
62.5°	0.0	4.5	11.1	19.2	28.4	39.9	52.8	72.0	101.4	138.6	202.8
60°	0.0	4.8	11.9	20.5	30.2	43.2	56.9	84.5	116.6	177.6	248.0
57.5°	0.0	5.2	12.6	21.7	32.6	46.3	65.7	96.2	144.5	214.5	306.0
55°	0.0	5.5	13.3	22.8	34.9	49.2	74.5	107.1	174.2	254.1	369.1
52.5°	0.0	5.8	14.0	23.9	37.0	52.6	82.7	129.1	202.0	308.5	429.9
50°	0.0	6.1	14.6	24.9	39.0	58.6	90.3	151.1	233.8	360.7	508.7
47.5°	0.0	6.3	15.2	25.9	40.9	64.1	98.6	171.3	277.9	410.6	585.1
45°	0.0	6.6	15.7	27.1	42.6	69.2	114.3	189.9	319.9	473.6	656.3
42.5°	0.0	6.8	16.2	28.3	44.2	73.7	128.6	217.1	359.5	532.4	738.4
40°	0.0	7.0	16.6	29.4	46.5	77.7	141.6	249.7	400.2	586.6	817.2
37.5°	0.0	7.2	17.0	30.4	49.5	81.1	153.2	280.2	444.4	640.4	889.7
35°	0.0	7.3	17.3	31.3	52.0	87.9	163.4	308.5	484.5	700.2	959.8
32.5°	0.0	7.5	17.6	32.0	54.2	95.8	176.3	334.6	520.5	754.3	1029.6
30°	0.0	7.6	17.8	32.7	56.0	102.7	196.8	359.6	552.3	802.7	1092.5
27.5°	0.0	7.7	18.0	33.2	57.5	108.5	215.3	385.2	584.3	845.3	1148.3
25°	0.0	7.8	18.1	33.6	58.6	113.4	231.9	407.4	618.4	887.4	1197.2
22.5°	0.0	7.8	18.2	34.0	59.4	117.2	246.4	426.3	647.7	926.0	1241.9
20°	0.0	7.9	18.2	34.2	59.8	120.1	258.9	441.8	672.1	958.4	1279.8
17.5°	0.0	7.9	18.2	34.3	60.0	122.0	269.4	454.1	691.6	984.5	1310.8
15°	0.0	7.9	18.1	34.3	59.8	123.0	277.8	463.1	706.4	1004.4	1334.8
12.5°	0.0	7.9	18.0	34.2	59.4	123.2	284.1	469.1	716.4	1018.1	1351.7
10°	0.0	7.8	17.9	34.0	58.7	122.5	288.3	472.0	721.7	1025.6	1361.6
7.5°	0.0	7.8	17.7	33.7	57.7	121.0	290.5	472.1	722.6	1027.2	1364.5
5°	0.0	7.7	17.4	33.3	56.6	118.8	290.6	469.3	719.1	1022.9	1360.4
2.5°	0.0	7.6	17.1	32.8	55.2	115.9	288.6	463.8	711.4	1012.9	1349.2
0°	0.0	7.5	16.8	32.2	53.6	112.4	284.6	455.9	699.6	997.4	1331.2
-2.5°	0.0	7.6	17.1	32.8	55.2	115.9	288.6	463.8	711.4	1012.9	1349.2
-5°	0.0	7.7	17.4	33.3	56.6	118.8	290.6	469.3	719.1	1022.9	1360.4
-7.5°	0.0	7.8	17.7	33.7	57.7	121.0	290.5	472.1	722.6	1027.2	1364.5
-10°	0.0	7.8	17.9	34.0	58.7	122.5	288.3	472.0	721.7	1025.6	1361.6
-12.5°	0.0	7.9	18.0	34.2	59.4	123.2	284.1	469.1	716.4	1018.1	1351.7
-15°	0.0	7.9	18.1	34.3	59.8	123.0	277.8	463.1	706.4	1004.4	1334.8
-17.5°	0.0	7.9	18.2	34.3	60.0	122.0	269.4	454.1	691.6	984.5	1310.8
-20°	0.0	7.9	18.2	34.2	59.8	120.1	258.9	441.8	672.1	958.4	1279.8

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Scaled Data Report



REPORT NUMBER: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	7.8	18.2	34.0	59.4	117.2	246.4	426.3	647.7	926.0	1241.9
-25°	0.0	7.8	18.1	33.6	58.6	113.4	231.9	407.4	618.4	887.4	1197.2
-27.5°	0.0	7.7	18.0	33.2	57.5	108.5	215.3	385.2	584.3	845.3	1148.3
-30°	0.0	7.6	17.8	32.7	56.0	102.7	196.8	359.6	552.3	802.7	1092.5
-32.5°	0.0	7.5	17.6	32.0	54.2	95.8	176.3	334.6	520.5	754.3	1029.6
-35°	0.0	7.3	17.3	31.3	52.0	87.9	163.4	308.5	484.5	700.2	959.8
-37.5°	0.0	7.2	17.0	30.4	49.5	81.1	153.2	280.2	444.4	640.4	889.7
-40°	0.0	7.0	16.6	29.4	46.5	77.7	141.6	249.7	400.2	586.6	817.2
-42.5°	0.0	6.8	16.2	28.3	44.2	73.7	128.6	217.1	359.5	532.4	738.4
-45°	0.0	6.6	15.7	27.1	42.6	69.2	114.3	189.9	319.9	473.6	656.3
-47.5°	0.0	6.3	15.2	25.9	40.9	64.1	98.6	171.3	277.9	410.6	585.1
-50°	0.0	6.1	14.6	24.9	39.0	58.6	90.3	151.1	233.8	360.7	508.7
-52.5°	0.0	5.8	14.0	23.9	37.0	52.6	82.7	129.1	202.0	308.5	429.9
-55°	0.0	5.5	13.3	22.8	34.9	49.2	74.5	107.1	174.2	254.1	369.1
-57.5°	0.0	5.2	12.6	21.7	32.6	46.3	65.7	96.2	144.5	214.5	306.0
-60°	0.0	4.8	11.9	20.5	30.2	43.2	56.9	84.5	116.6	177.6	248.0
-62.5°	0.0	4.5	11.1	19.2	28.4	39.9	52.8	72.0	101.4	138.6	202.8
-65°	0.0	4.1	10.2	17.9	26.5	36.5	48.5	61.2	85.3	115.1	155.4
-67.5°	0.0	3.8	9.3	16.5	24.4	33.3	44.1	55.9	68.5	94.8	124.0
-70°	0.0	3.4	8.4	15.0	22.3	30.4	39.5	50.3	61.6	73.7	99.1
-72.5°	0.0	3.0	7.4	13.4	20.1	27.5	35.5	44.5	54.8	65.4	76.5
-75°	0.0	2.6	6.4	11.6	17.8	24.4	31.5	39.3	47.7	57.2	67.0
-77.5°	0.0	2.2	5.4	9.7	15.0	21.2	27.4	34.1	41.3	49.0	57.3
-80°	0.0	1.7	4.3	7.8	12.1	17.3	23.1	28.8	34.8	41.3	48.1
-82.5°	0.0	1.3	3.3	5.9	9.2	13.1	17.6	22.7	28.2	33.4	38.8
-85°	0.0	0.9	2.2	4.0	6.1	8.8	11.8	15.2	19.0	23.3	27.8
-87.5°	0.0	0.4	1.1	2.0	3.1	4.4	5.9	7.6	9.5	11.7	13.9
-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: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

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°	16.4	19.0	21.5	24.0	26.7	29.4	32.2	35.1	38.0	41.0	43.9
85°	32.8	38.0	42.2	47.1	52.8	59.1	66.0	73.5	81.5	90.0	98.9
82.5°	44.5	50.4	58.3	67.5	77.7	88.8	101.5	117.4	134.9	153.9	174.1
80°	55.2	62.7	74.7	90.1	108.3	129.0	152.3	177.8	205.4	238.3	275.9
77.5°	66.2	75.4	92.1	114.4	141.6	179.8	220.9	264.9	311.4	360.2	411.1
75°	77.2	87.8	118.1	158.5	203.0	251.4	305.8	376.9	451.0	527.8	606.9
72.5°	96.7	122.3	158.8	207.8	278.6	356.1	438.1	524.1	617.3	715.4	815.3
70°	126.9	157.0	214.4	293.8	379.2	472.8	577.2	685.1	796.1	911.4	1028.9
67.5°	160.8	219.8	287.2	380.6	489.6	603.2	721.3	856.6	989.2	1118.5	1244.4
65°	217.6	284.5	365.9	481.0	602.0	750.0	898.0	1042.9	1188.8	1327.9	1459.5
62.5°	272.1	362.6	456.9	589.9	753.5	914.1	1080.0	1241.0	1393.6	1519.8	1627.9
60°	342.5	444.1	568.7	731.0	908.2	1093.8	1270.6	1429.3	1567.2	1686.6	1780.0
57.5°	414.6	544.0	700.7	877.8	1080.9	1274.6	1451.5	1607.7	1735.9	1842.4	1926.1
55°	495.7	657.5	836.6	1039.5	1253.5	1454.7	1631.2	1777.9	1902.2	1990.1	2059.6
52.5°	592.3	770.3	981.7	1203.1	1431.6	1633.0	1804.6	1943.7	2049.6	2130.1	2180.2
50°	683.5	895.7	1121.9	1367.5	1607.1	1807.5	1969.1	2097.2	2187.9	2252.3	2291.9
47.5°	785.1	1014.1	1265.5	1522.0	1771.8	1971.0	2125.2	2232.9	2315.2	2362.6	2394.5
45°	885.9	1134.8	1401.2	1664.0	1915.3	2126.0	2259.6	2362.7	2423.7	2465.9	2480.6
42.5°	980.0	1251.3	1526.1	1798.5	2039.8	2252.0	2388.8	2470.3	2527.0	2553.1	2563.1
40°	1077.6	1360.0	1643.2	1909.6	2152.0	2348.5	2497.7	2575.5	2614.7	2634.9	2641.8
37.5°	1169.3	1460.5	1750.0	2015.7	2240.0	2430.1	2586.0	2662.0	2696.4	2713.5	2709.1
35°	1253.6	1553.9	1842.3	2104.2	2325.3	2501.0	2637.7	2741.9	2773.6	2780.2	2775.5
32.5°	1331.3	1639.8	1928.8	2179.2	2391.0	2563.7	2688.1	2780.8	2841.7	2846.5	2838.6
30°	1402.6	1713.1	2004.6	2250.6	2453.4	2609.6	2728.0	2817.7	2878.7	2907.1	2895.8
27.5°	1466.7	1779.8	2064.6	2307.8	2509.5	2655.1	2764.7	2844.5	2902.4	2944.0	2950.2
25°	1523.4	1840.3	2120.0	2358.4	2548.1	2690.3	2797.7	2871.8	2924.5	2960.2	2980.0
22.5°	1572.0	1894.0	2170.7	2405.8	2585.1	2721.2	2821.3	2892.6	2944.0	2977.7	2991.2
20°	1613.0	1932.4	2210.9	2446.6	2620.0	2751.0	2844.2	2911.9	2960.1	2988.2	3003.1
17.5°	1647.4	1965.2	2242.7	2472.2	2644.1	2774.0	2865.1	2930.8	2977.0	2999.1	3016.0
15°	1674.9	1992.3	2269.9	2494.6	2664.1	2790.2	2879.6	2944.8	2989.5	3010.2	3029.7
12.5°	1695.3	2013.2	2291.9	2513.1	2681.3	2804.5	2892.6	2957.7	2998.6	3021.9	3037.1
10°	1708.5	2027.5	2308.1	2527.5	2695.2	2816.4	2903.9	2969.8	3007.2	3033.5	3044.7
7.5°	1714.1	2034.9	2318.1	2536.9	2705.2	2825.6	2913.2	2980.6	3015.4	3044.9	3052.3
5°	1712.1	2034.9	2321.4	2541.1	2710.9	2831.6	2919.9	2989.6	3022.7	3055.5	3060.1
2.5°	1702.3	2027.4	2317.5	2539.3	2711.7	2833.8	2923.8	2996.2	3028.8	3064.9	3067.8
0°	1684.6	2011.8	2305.8	2531.2	2707.1	2832.0	2924.3	3000.1	3033.7	3072.8	3075.4
-2.5°	1702.3	2027.4	2317.5	2539.3	2711.7	2833.8	2923.8	2996.2	3028.8	3064.9	3067.8
-5°	1712.1	2034.9	2321.4	2541.1	2710.9	2831.6	2919.9	2989.6	3022.7	3055.5	3060.1
-7.5°	1714.1	2034.9	2318.1	2536.9	2705.2	2825.6	2913.2	2980.6	3015.4	3044.9	3052.3
-10°	1708.5	2027.5	2308.1	2527.5	2695.2	2816.4	2903.9	2969.8	3007.2	3033.5	3044.7
-12.5°	1695.3	2013.2	2291.9	2513.1	2681.3	2804.5	2892.6	2957.7	2998.6	3021.9	3037.1
-15°	1674.9	1992.3	2269.9	2494.6	2664.1	2790.2	2879.6	2944.8	2989.5	3010.2	3029.7
-17.5°	1647.4	1965.2	2242.7	2472.2	2644.1	2774.0	2865.1	2930.8	2977.0	2999.1	3016.0
-20°	1613.0	1932.4	2210.9	2446.6	2620.0	2751.0	2844.2	2911.9	2960.1	2988.2	3003.1



REPORT NUMBER: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1572.0	1894.0	2170.7	2405.8	2585.1	2721.2	2821.3	2892.6	2944.0	2977.7	2991.2
-25°	1523.4	1840.3	2120.0	2358.4	2548.1	2690.3	2797.7	2871.8	2924.5	2960.2	2980.0
-27.5°	1466.7	1779.8	2064.6	2307.8	2509.5	2655.1	2764.7	2844.5	2902.4	2944.0	2950.2
-30°	1402.6	1713.1	2004.6	2250.6	2453.4	2609.6	2728.0	2817.7	2878.7	2907.1	2895.8
-32.5°	1331.3	1639.8	1928.8	2179.2	2391.0	2563.7	2688.1	2780.8	2841.7	2846.5	2838.6
-35°	1253.6	1553.9	1842.3	2104.2	2325.3	2501.0	2637.7	2741.9	2773.6	2780.2	2775.5
-37.5°	1169.3	1460.5	1750.0	2015.7	2240.0	2430.1	2586.0	2662.0	2696.4	2713.5	2709.1
-40°	1077.6	1360.0	1643.2	1909.6	2152.0	2348.5	2497.7	2575.5	2614.7	2634.9	2641.8
-42.5°	980.0	1251.3	1526.1	1798.5	2039.8	2252.0	2388.8	2470.3	2527.0	2553.1	2563.1
-45°	885.9	1134.8	1401.2	1664.0	1915.3	2126.0	2259.6	2362.7	2423.7	2465.9	2480.6
-47.5°	785.1	1014.1	1265.5	1522.0	1771.8	1971.0	2125.2	2232.9	2315.2	2362.6	2394.5
-50°	683.5	895.7	1121.9	1367.5	1607.1	1807.5	1969.1	2097.2	2187.9	2252.3	2291.9
-52.5°	592.3	770.3	981.7	1203.1	1431.6	1633.0	1804.6	1943.7	2049.6	2130.1	2180.2
-55°	495.7	657.5	836.6	1039.5	1253.5	1454.7	1631.2	1777.9	1902.2	1990.1	2059.6
-57.5°	414.6	544.0	700.7	877.8	1080.9	1274.6	1451.5	1607.7	1735.9	1842.4	1926.1
-60°	342.5	444.1	568.7	731.0	908.2	1093.8	1270.6	1429.3	1567.2	1686.6	1780.0
-62.5°	272.1	362.6	456.9	589.9	753.5	914.1	1080.0	1241.0	1393.6	1519.8	1627.9
-65°	217.6	284.5	365.9	481.0	602.0	750.0	898.0	1042.9	1188.8	1327.9	1459.5
-67.5°	160.8	219.8	287.2	380.6	489.6	603.2	721.3	856.6	989.2	1118.5	1244.4
-70°	126.9	157.0	214.4	293.8	379.2	472.8	577.2	685.1	796.1	911.4	1028.9
-72.5°	96.7	122.3	158.8	207.8	278.6	356.1	438.1	524.1	617.3	715.4	815.3
-75°	77.2	87.8	118.1	158.5	203.0	251.4	305.8	376.9	451.0	527.8	606.9
-77.5°	66.2	75.4	92.1	114.4	141.6	179.8	220.9	264.9	311.4	360.2	411.1
-80°	55.2	62.7	74.7	90.1	108.3	129.0	152.3	177.8	205.4	238.3	275.9
-82.5°	44.5	50.4	58.3	67.5	77.7	88.8	101.5	117.4	134.9	153.9	174.1
-85°	32.8	38.0	42.2	47.1	52.8	59.1	66.0	73.5	81.5	90.0	98.9
-87.5°	16.4	19.0	21.5	24.0	26.7	29.4	32.2	35.1	38.0	41.0	43.9
-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: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

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°	46.9	50.0	53.0	52.0	50.7	49.3	47.7	45.8	43.9	41.8	39.5
85°	108.1	117.7	127.5	124.8	120.9	116.3	111.1	105.3	99.0	92.2	84.9
82.5°	195.4	217.6	240.8	237.6	230.1	220.8	209.8	197.2	183.3	168.2	152.0
80°	314.9	354.9	395.9	394.8	382.9	367.6	349.2	328.0	304.2	278.2	250.3
77.5°	471.1	536.1	602.0	610.5	595.6	574.7	548.4	516.9	481.0	441.0	397.5
75°	687.8	771.1	857.2	874.9	850.7	819.1	780.6	735.8	685.3	629.7	569.5
72.5°	916.6	1018.9	1120.7	1149.1	1111.2	1065.6	1012.9	953.5	888.2	817.4	741.8
70°	1143.1	1253.9	1361.2	1407.4	1358.4	1302.0	1238.7	1168.8	1092.8	1011.3	924.8
67.5°	1365.1	1478.9	1586.0	1652.8	1584.4	1505.5	1424.3	1340.7	1254.7	1166.2	1075.2
65°	1573.8	1661.6	1736.8	1793.8	1719.8	1639.1	1556.8	1472.7	1386.7	1298.7	1208.4
62.5°	1720.3	1793.4	1849.7	1892.7	1834.0	1755.5	1674.7	1592.7	1509.3	1424.3	1337.3
60°	1856.0	1915.4	1953.5	1978.3	1937.7	1862.4	1784.9	1706.6	1627.2	1546.4	1463.7
57.5°	1984.2	2026.3	2051.8	2061.5	2034.8	1962.9	1889.1	1814.3	1739.1	1663.0	1585.6
55°	2104.7	2130.8	2144.4	2141.8	2121.9	2052.4	1983.5	1914.1	1844.7	1774.6	1703.2
52.5°	2215.6	2227.5	2227.5	2216.4	2194.5	2136.0	2072.6	2009.4	1946.1	1882.0	1816.7
50°	2311.8	2316.6	2306.1	2288.0	2262.0	2216.3	2158.7	2100.6	2041.9	1983.2	1923.6
47.5°	2400.6	2397.0	2381.9	2359.7	2330.5	2289.8	2235.5	2183.2	2132.5	2081.3	2028.6
45°	2483.4	2473.5	2455.5	2426.7	2393.3	2358.1	2313.5	2268.8	2221.4	2174.0	2126.2
42.5°	2561.0	2544.9	2521.3	2493.4	2462.6	2426.3	2383.2	2340.5	2299.8	2259.2	2217.4
40°	2630.1	2612.3	2589.0	2560.9	2524.4	2485.6	2447.9	2412.6	2377.3	2341.0	2303.6
37.5°	2697.2	2678.9	2651.8	2619.1	2584.7	2549.9	2513.6	2480.6	2449.5	2416.6	2383.0
35°	2762.3	2738.3	2709.3	2677.3	2645.0	2611.5	2576.5	2541.8	2513.5	2485.1	2456.1
32.5°	2819.8	2794.3	2764.4	2734.0	2703.1	2668.4	2633.6	2598.1	2572.5	2547.8	2521.9
30°	2874.9	2846.4	2817.7	2788.2	2754.3	2721.2	2688.3	2654.2	2625.2	2603.7	2582.1
27.5°	2924.3	2897.0	2869.0	2835.5	2803.6	2772.5	2738.7	2706.2	2674.4	2656.8	2637.1
25°	2972.8	2946.5	2913.4	2881.9	2851.1	2817.4	2785.0	2754.4	2723.0	2698.7	2682.1
22.5°	3001.3	2989.5	2957.2	2927.4	2892.5	2858.7	2827.1	2796.6	2765.0	2734.7	2721.1
20°	3012.8	3009.7	3000.9	2966.2	2930.4	2896.4	2866.2	2831.7	2800.6	2777.2	2759.9
17.5°	3020.3	3018.9	3014.8	3003.1	2964.8	2933.5	2896.2	2861.8	2838.7	2811.0	2784.4
15°	3028.0	3028.5	3020.1	3006.8	2993.3	2963.7	2920.7	2895.6	2864.3	2837.6	2819.2
12.5°	3036.9	3036.4	3025.8	3012.8	2999.3	2971.7	2951.9	2918.9	2886.4	2864.8	2841.6
10°	3046.2	3042.8	3032.6	3019.3	2999.4	2972.7	2958.1	2932.9	2908.9	2881.8	2859.1
7.5°	3055.5	3049.8	3041.1	3025.4	3000.2	2977.4	2955.6	2932.6	2914.8	2896.3	2872.5
5°	3064.7	3057.4	3050.9	3031.4	3003.9	2981.8	2955.4	2932.9	2910.6	2891.4	2875.0
2.5°	3073.8	3065.8	3061.8	3038.3	3010.4	2986.8	2957.9	2934.2	2907.6	2886.9	2868.9
0°	3082.6	3074.7	3073.2	3046.5	3019.7	2993.5	2963.7	2937.9	2907.7	2885.4	2866.7
-2.5°	3073.8	3065.8	3061.8	3038.3	3010.4	2986.8	2957.9	2934.2	2907.6	2886.9	2868.9
-5°	3064.7	3057.4	3050.9	3031.4	3003.9	2981.8	2955.4	2932.9	2910.6	2891.4	2875.0
-7.5°	3055.5	3049.8	3041.1	3025.4	3000.2	2977.4	2955.6	2932.6	2914.8	2896.3	2872.5
-10°	3046.2	3042.8	3032.6	3019.3	2999.4	2972.7	2958.1	2932.9	2908.9	2881.8	2859.1
-12.5°	3036.9	3036.4	3025.8	3012.8	2999.3	2971.7	2951.9	2918.9	2886.4	2864.8	2841.6
-15°	3028.0	3028.5	3020.1	3006.8	2993.3	2963.7	2920.7	2895.6	2864.3	2837.6	2819.2
-17.5°	3020.3	3018.9	3014.8	3003.1	2964.8	2933.5	2896.2	2861.8	2838.7	2811.0	2784.4
-20°	3012.8	3009.7	3000.9	2966.2	2930.4	2896.4	2866.2	2831.7	2800.6	2777.2	2759.9

Classified

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

Scaled Data Report



REPORT NUMBER: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3001.3	2989.5	2957.2	2927.4	2892.5	2858.7	2827.1	2796.6	2765.0	2734.7	2721.1
-25°	2972.8	2946.5	2913.4	2881.9	2851.1	2817.4	2785.0	2754.4	2723.0	2698.7	2682.1
-27.5°	2924.3	2897.0	2869.0	2835.5	2803.6	2772.5	2738.7	2706.2	2674.4	2656.8	2637.1
-30°	2874.9	2846.4	2817.7	2788.2	2754.3	2721.2	2688.3	2654.2	2625.2	2603.7	2582.1
-32.5°	2819.8	2794.3	2764.4	2734.0	2703.1	2668.4	2633.6	2598.1	2572.5	2547.8	2521.9
-35°	2762.3	2738.3	2709.3	2677.3	2645.0	2611.5	2576.5	2541.8	2513.5	2485.1	2456.1
-37.5°	2697.2	2678.9	2651.8	2619.1	2584.7	2549.9	2513.6	2480.6	2449.5	2416.6	2383.0
-40°	2630.1	2612.3	2589.0	2560.9	2524.4	2485.6	2447.9	2412.6	2377.3	2341.0	2303.6
-42.5°	2561.0	2544.9	2521.3	2493.4	2462.6	2426.3	2383.2	2340.5	2299.8	2259.2	2217.4
-45°	2483.4	2473.5	2455.5	2426.7	2393.3	2358.1	2313.5	2268.8	2221.4	2174.0	2126.2
-47.5°	2400.6	2397.0	2381.9	2359.7	2330.5	2289.8	2235.5	2183.2	2132.5	2081.3	2028.6
-50°	2311.8	2316.6	2306.1	2288.0	2262.0	2216.3	2158.7	2100.6	2041.9	1983.2	1923.6
-52.5°	2215.6	2227.5	2227.5	2216.4	2194.5	2136.0	2072.6	2009.4	1946.1	1882.0	1816.7
-55°	2104.7	2130.8	2144.4	2141.8	2121.9	2052.4	1983.5	1914.1	1844.7	1774.6	1703.2
-57.5°	1984.2	2026.3	2051.8	2061.5	2034.8	1962.9	1889.1	1814.3	1739.1	1663.0	1585.6
-60°	1856.0	1915.4	1953.5	1978.3	1937.7	1862.4	1784.9	1706.6	1627.2	1546.4	1463.7
-62.5°	1720.3	1793.4	1849.7	1892.7	1834.0	1755.5	1674.7	1592.7	1509.3	1424.3	1337.3
-65°	1573.8	1661.6	1736.8	1793.8	1719.8	1639.1	1556.8	1472.7	1386.7	1298.7	1208.4
-67.5°	1365.1	1478.9	1586.0	1652.8	1584.4	1505.5	1424.3	1340.7	1254.7	1166.2	1075.2
-70°	1143.1	1253.9	1361.2	1407.4	1358.4	1302.0	1238.7	1168.8	1092.8	1011.3	924.8
-72.5°	916.6	1018.9	1120.7	1149.1	1111.2	1065.6	1012.9	953.5	888.2	817.4	741.8
-75°	687.8	771.1	857.2	874.9	850.7	819.1	780.6	735.8	685.3	629.7	569.5
-77.5°	471.1	536.1	602.0	610.5	595.6	574.7	548.4	516.9	481.0	441.0	397.5
-80°	314.9	354.9	395.9	394.8	382.9	367.6	349.2	328.0	304.2	278.2	250.3
-82.5°	195.4	217.6	240.8	237.6	230.1	220.8	209.8	197.2	183.3	168.2	152.0
-85°	108.1	117.7	127.5	124.8	120.9	116.3	111.1	105.3	99.0	92.2	84.9
-87.5°	46.9	50.0	53.0	52.0	50.7	49.3	47.7	45.8	43.9	41.8	39.5
-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: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

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°	37.2	34.8	32.2	29.6	32.2	34.8	37.2	39.5	41.8	43.9	45.8
85°	77.4	69.6	61.5	53.3	61.5	69.6	77.4	84.9	92.2	99.0	105.3
82.5°	135.0	117.3	99.0	80.4	99.0	117.3	135.0	152.0	168.2	183.3	197.2
80°	220.7	189.8	157.9	125.3	157.9	189.8	220.7	250.3	278.2	304.2	328.0
77.5°	351.0	302.1	251.4	199.4	251.4	302.1	351.0	397.5	441.0	481.0	516.9
75°	505.5	438.2	368.5	296.9	368.5	438.2	505.5	569.5	629.7	685.3	735.8
72.5°	661.9	578.6	492.4	404.0	492.4	578.6	661.9	741.8	817.4	888.2	953.5
70°	833.6	738.6	640.3	539.2	640.3	738.6	833.6	924.8	1011.3	1092.8	1168.8
67.5°	981.6	885.5	786.7	685.3	786.7	885.5	981.6	1075.2	1166.2	1254.7	1340.7
65°	1115.8	1020.8	923.1	822.9	923.1	1020.8	1115.8	1208.4	1298.7	1386.7	1472.7
62.5°	1248.2	1156.5	1062.2	964.8	1062.2	1156.5	1248.2	1337.3	1424.3	1509.3	1592.7
60°	1378.8	1291.3	1201.0	1107.4	1201.0	1291.3	1378.8	1463.7	1546.4	1627.2	1706.6
57.5°	1506.3	1424.6	1339.8	1251.6	1339.8	1424.6	1506.3	1585.6	1663.0	1739.1	1814.3
55°	1630.0	1554.3	1475.5	1393.1	1475.5	1554.3	1630.0	1703.2	1774.6	1844.7	1914.1
52.5°	1749.4	1679.6	1606.4	1529.4	1606.4	1679.6	1749.4	1816.7	1882.0	1946.1	2009.4
50°	1862.4	1798.8	1732.1	1661.3	1732.1	1798.8	1862.4	1923.6	1983.2	2041.9	2100.6
47.5°	1973.9	1916.3	1855.1	1789.6	1855.1	1916.3	1973.9	2028.6	2081.3	2132.5	2183.2
45°	2077.1	2025.6	1970.9	1911.7	1970.9	2025.6	2077.1	2126.2	2174.0	2221.4	2268.8
42.5°	2173.6	2126.9	2076.6	2021.9	2076.6	2126.9	2173.6	2217.4	2259.2	2299.8	2340.5
40°	2264.4	2222.4	2176.7	2126.4	2176.7	2222.4	2264.4	2303.6	2341.0	2377.3	2412.6
37.5°	2348.0	2310.4	2269.3	2223.7	2269.3	2310.4	2348.0	2383.0	2416.6	2449.5	2480.6
35°	2425.7	2392.9	2356.7	2315.8	2356.7	2392.9	2425.7	2456.1	2485.1	2513.5	2541.8
32.5°	2494.4	2464.5	2431.3	2393.7	2431.3	2464.5	2494.4	2521.9	2547.8	2572.5	2598.1
30°	2559.4	2534.7	2506.4	2473.5	2506.4	2534.7	2559.4	2582.1	2603.7	2625.2	2654.2
27.5°	2617.5	2596.7	2573.1	2545.1	2573.1	2596.7	2617.5	2637.1	2656.8	2674.4	2706.2
25°	2664.0	2644.3	2621.7	2595.5	2621.7	2644.3	2664.0	2682.1	2698.7	2723.0	2754.4
22.5°	2708.3	2694.0	2676.8	2654.9	2676.8	2694.0	2708.3	2721.1	2734.7	2765.0	2796.6
20°	2747.4	2736.7	2725.5	2710.8	2725.5	2736.7	2747.4	2759.9	2777.2	2800.6	2831.7
17.5°	2777.8	2769.6	2757.6	2741.7	2757.6	2769.6	2777.8	2784.4	2811.0	2838.7	2861.8
15°	2803.7	2793.5	2783.0	2770.0	2783.0	2793.5	2803.7	2819.2	2837.6	2864.3	2895.6
12.5°	2822.3	2815.8	2810.5	2802.1	2810.5	2815.8	2822.3	2841.6	2864.8	2886.4	2918.9
10°	2843.3	2826.8	2817.1	2807.3	2817.1	2826.8	2843.3	2859.1	2881.8	2908.9	2932.9
7.5°	2850.3	2835.1	2831.6	2831.4	2831.6	2835.1	2850.3	2872.5	2896.3	2914.8	2932.6
5°	2858.3	2844.0	2839.0	2832.6	2839.0	2844.0	2858.3	2875.0	2891.4	2910.6	2932.9
2.5°	2852.9	2841.2	2835.0	2838.6	2835.0	2841.2	2852.9	2868.9	2886.9	2907.6	2934.2
0°	2843.5	2834.9	2823.5	2827.3	2823.5	2834.9	2843.5	2866.7	2885.4	2907.7	2937.9
-2.5°	2852.9	2841.2	2835.0	2838.6	2835.0	2841.2	2852.9	2868.9	2886.9	2907.6	2934.2
-5°	2858.3	2844.0	2839.0	2832.6	2839.0	2844.0	2858.3	2875.0	2891.4	2910.6	2932.9
-7.5°	2850.3	2835.1	2831.6	2831.4	2831.6	2835.1	2850.3	2872.5	2896.3	2914.8	2932.6
-10°	2843.3	2826.8	2817.1	2807.3	2817.1	2826.8	2843.3	2859.1	2881.8	2908.9	2932.9
-12.5°	2822.3	2815.8	2810.5	2802.1	2810.5	2815.8	2822.3	2841.6	2864.8	2886.4	2918.9
-15°	2803.7	2793.5	2783.0	2770.0	2783.0	2793.5	2803.7	2819.2	2837.6	2864.3	2895.6
-17.5°	2777.8	2769.6	2757.6	2741.7	2757.6	2769.6	2777.8	2784.4	2811.0	2838.7	2861.8
-20°	2747.4	2736.7	2725.5	2710.8	2725.5	2736.7	2747.4	2759.9	2777.2	2800.6	2831.7



REPORT NUMBER: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2708.3	2694.0	2676.8	2654.9	2676.8	2694.0	2708.3	2721.1	2734.7	2765.0	2796.6
-25°	2664.0	2644.3	2621.7	2595.5	2621.7	2644.3	2664.0	2682.1	2698.7	2723.0	2754.4
-27.5°	2617.5	2596.7	2573.1	2545.1	2573.1	2596.7	2617.5	2637.1	2656.8	2674.4	2706.2
-30°	2559.4	2534.7	2506.4	2473.5	2506.4	2534.7	2559.4	2582.1	2603.7	2625.2	2654.2
-32.5°	2494.4	2464.5	2431.3	2393.7	2431.3	2464.5	2494.4	2521.9	2547.8	2572.5	2598.1
-35°	2425.7	2392.9	2356.7	2315.8	2356.7	2392.9	2425.7	2456.1	2485.1	2513.5	2541.8
-37.5°	2348.0	2310.4	2269.3	2223.7	2269.3	2310.4	2348.0	2383.0	2416.6	2449.5	2480.6
-40°	2264.4	2222.4	2176.7	2126.4	2176.7	2222.4	2264.4	2303.6	2341.0	2377.3	2412.6
-42.5°	2173.6	2126.9	2076.6	2021.9	2076.6	2126.9	2173.6	2217.4	2259.2	2299.8	2340.5
-45°	2077.1	2025.6	1970.9	1911.7	1970.9	2025.6	2077.1	2126.2	2174.0	2221.4	2268.8
-47.5°	1973.9	1916.3	1855.1	1789.6	1855.1	1916.3	1973.9	2028.6	2081.3	2132.5	2183.2
-50°	1862.4	1798.8	1732.1	1661.3	1732.1	1798.8	1862.4	1923.6	1983.2	2041.9	2100.6
-52.5°	1749.4	1679.6	1606.4	1529.4	1606.4	1679.6	1749.4	1816.7	1882.0	1946.1	2009.4
-55°	1630.0	1554.3	1475.5	1393.1	1475.5	1554.3	1630.0	1703.2	1774.6	1844.7	1914.1
-57.5°	1506.3	1424.6	1339.8	1251.6	1339.8	1424.6	1506.3	1585.6	1663.0	1739.1	1814.3
-60°	1378.8	1291.3	1201.0	1107.4	1201.0	1291.3	1378.8	1463.7	1546.4	1627.2	1706.6
-62.5°	1248.2	1156.5	1062.2	964.8	1062.2	1156.5	1248.2	1337.3	1424.3	1509.3	1592.7
-65°	1115.8	1020.8	923.1	822.9	923.1	1020.8	1115.8	1208.4	1298.7	1386.7	1472.7
-67.5°	981.6	885.5	786.7	685.3	786.7	885.5	981.6	1075.2	1166.2	1254.7	1340.7
-70°	833.6	738.6	640.3	539.2	640.3	738.6	833.6	924.8	1011.3	1092.8	1168.8
-72.5°	661.9	578.6	492.4	404.0	492.4	578.6	661.9	741.8	817.4	888.2	953.5
-75°	505.5	438.2	368.5	296.9	368.5	438.2	505.5	569.5	629.7	685.3	735.8
-77.5°	351.0	302.1	251.4	199.4	251.4	302.1	351.0	397.5	441.0	481.0	516.9
-80°	220.7	189.8	157.9	125.3	157.9	189.8	220.7	250.3	278.2	304.2	328.0
-82.5°	135.0	117.3	99.0	80.4	99.0	117.3	135.0	152.0	168.2	183.3	197.2
-85°	77.4	69.6	61.5	53.3	61.5	69.6	77.4	84.9	92.2	99.0	105.3
-87.5°	37.2	34.8	32.2	29.6	32.2	34.8	37.2	39.5	41.8	43.9	45.8
-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: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

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°	47.7	49.3	50.7	52.0	53.0	50.0	46.9	43.9	41.0	38.0	35.1
85°	111.1	116.3	120.9	124.8	127.5	117.7	108.1	98.9	90.0	81.5	73.5
82.5°	209.8	220.8	230.1	237.6	240.8	217.6	195.4	174.1	153.9	134.9	117.4
80°	349.2	367.6	382.9	394.8	395.9	354.9	314.9	275.9	238.3	205.4	177.8
77.5°	548.4	574.7	595.6	610.5	602.0	536.1	471.1	411.1	360.2	311.4	264.9
75°	780.6	819.1	850.7	874.9	857.2	771.1	687.8	606.9	527.8	451.0	376.9
72.5°	1012.9	1065.6	1111.2	1149.1	1120.7	1018.9	916.6	815.3	715.4	617.3	524.1
70°	1238.7	1302.0	1358.4	1407.4	1361.2	1253.9	1143.1	1028.9	911.4	796.1	685.1
67.5°	1424.3	1505.5	1584.4	1652.8	1586.0	1478.9	1365.1	1244.4	1118.5	989.2	856.6
65°	1556.8	1639.1	1719.8	1793.8	1736.8	1661.6	1573.8	1459.5	1327.9	1188.8	1042.9
62.5°	1674.7	1755.5	1834.0	1892.7	1849.7	1793.4	1720.3	1627.9	1519.8	1393.6	1241.0
60°	1784.9	1862.4	1937.7	1978.3	1953.5	1915.4	1856.0	1780.0	1686.6	1567.2	1429.3
57.5°	1889.1	1962.9	2034.8	2061.5	2051.8	2026.3	1984.2	1926.1	1842.4	1735.9	1607.7
55°	1983.5	2052.4	2121.9	2141.8	2144.4	2130.8	2104.7	2059.6	1990.1	1902.2	1777.9
52.5°	2072.6	2136.0	2194.5	2216.4	2227.5	2227.5	2215.6	2180.2	2130.1	2049.6	1943.7
50°	2158.7	2216.3	2262.0	2288.0	2306.1	2316.6	2311.8	2291.9	2252.3	2187.9	2097.2
47.5°	2235.5	2289.8	2330.5	2359.7	2381.9	2397.0	2400.6	2394.5	2362.6	2315.2	2232.9
45°	2313.5	2358.1	2393.3	2426.7	2455.5	2473.5	2483.4	2480.6	2465.9	2423.7	2362.7
42.5°	2383.2	2426.3	2462.6	2493.4	2521.3	2544.9	2561.0	2563.1	2553.1	2527.0	2470.3
40°	2447.9	2485.6	2524.4	2560.9	2589.0	2612.3	2630.1	2641.8	2634.9	2614.7	2575.5
37.5°	2513.6	2549.9	2584.7	2619.1	2651.8	2678.9	2697.2	2709.1	2713.5	2696.4	2662.0
35°	2576.5	2611.5	2645.0	2677.3	2709.3	2738.3	2762.3	2775.5	2780.2	2773.6	2741.9
32.5°	2633.6	2668.4	2703.1	2734.0	2764.4	2794.3	2819.8	2838.6	2846.5	2841.7	2780.8
30°	2688.3	2721.2	2754.3	2788.2	2817.7	2846.4	2874.9	2895.8	2907.1	2878.7	2817.7
27.5°	2738.7	2772.5	2803.6	2835.5	2869.0	2897.0	2924.3	2950.2	2944.0	2902.4	2844.5
25°	2785.0	2817.4	2851.1	2881.9	2913.4	2946.5	2972.8	2980.0	2960.2	2924.5	2871.8
22.5°	2827.1	2858.7	2892.5	2927.4	2957.2	2989.5	3001.3	2991.2	2977.7	2944.0	2892.6
20°	2866.2	2896.4	2930.4	2966.2	3000.9	3009.7	3012.8	3003.1	2988.2	2960.1	2911.9
17.5°	2896.2	2933.5	2964.8	3003.1	3014.8	3018.9	3020.3	3016.0	2999.1	2977.0	2930.8
15°	2920.7	2963.7	2993.3	3006.8	3020.1	3028.5	3028.0	3029.7	3010.2	2989.5	2944.8
12.5°	2951.9	2971.7	2999.3	3012.8	3025.8	3036.4	3036.9	3037.1	3021.9	2998.6	2957.7
10°	2958.1	2972.7	2999.4	3019.3	3032.6	3042.8	3046.2	3044.7	3033.5	3007.2	2969.8
7.5°	2955.6	2977.4	3000.2	3025.4	3041.1	3049.8	3055.5	3052.3	3044.9	3015.4	2980.6
5°	2955.4	2981.8	3003.9	3031.4	3050.9	3057.4	3064.7	3060.1	3055.5	3022.7	2989.6
2.5°	2957.9	2986.8	3010.4	3038.3	3061.8	3065.8	3073.8	3067.8	3064.9	3028.8	2996.2
0°	2963.7	2993.5	3019.7	3046.5	3073.2	3074.7	3082.6	3075.4	3072.8	3033.7	3000.1
-2.5°	2957.9	2986.8	3010.4	3038.3	3061.8	3065.8	3073.8	3067.8	3064.9	3028.8	2996.2
-5°	2955.4	2981.8	3003.9	3031.4	3050.9	3057.4	3064.7	3060.1	3055.5	3022.7	2989.6
-7.5°	2955.6	2977.4	3000.2	3025.4	3041.1	3049.8	3055.5	3052.3	3044.9	3015.4	2980.6
-10°	2958.1	2972.7	2999.4	3019.3	3032.6	3042.8	3046.2	3044.7	3033.5	3007.2	2969.8
-12.5°	2951.9	2971.7	2999.3	3012.8	3025.8	3036.4	3036.9	3037.1	3021.9	2998.6	2957.7
-15°	2920.7	2963.7	2993.3	3006.8	3020.1	3028.5	3028.0	3029.7	3010.2	2989.5	2944.8
-17.5°	2896.2	2933.5	2964.8	3003.1	3014.8	3018.9	3020.3	3016.0	2999.1	2977.0	2930.8
-20°	2866.2	2896.4	2930.4	2966.2	3000.9	3009.7	3012.8	3003.1	2988.2	2960.1	2911.9



REPORT NUMBER: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2827.1	2858.7	2892.5	2927.4	2957.2	2989.5	3001.3	2991.2	2977.7	2944.0	2892.6
-25°	2785.0	2817.4	2851.1	2881.9	2913.4	2946.5	2972.8	2980.0	2960.2	2924.5	2871.8
-27.5°	2738.7	2772.5	2803.6	2835.5	2869.0	2897.0	2924.3	2950.2	2944.0	2902.4	2844.5
-30°	2688.3	2721.2	2754.3	2788.2	2817.7	2846.4	2874.9	2895.8	2907.1	2878.7	2817.7
-32.5°	2633.6	2668.4	2703.1	2734.0	2764.4	2794.3	2819.8	2838.6	2846.5	2841.7	2780.8
-35°	2576.5	2611.5	2645.0	2677.3	2709.3	2738.3	2762.3	2775.5	2780.2	2773.6	2741.9
-37.5°	2513.6	2549.9	2584.7	2619.1	2651.8	2678.9	2697.2	2709.1	2713.5	2696.4	2662.0
-40°	2447.9	2485.6	2524.4	2560.9	2589.0	2612.3	2630.1	2641.8	2634.9	2614.7	2575.5
-42.5°	2383.2	2426.3	2462.6	2493.4	2521.3	2544.9	2561.0	2563.1	2553.1	2527.0	2470.3
-45°	2313.5	2358.1	2393.3	2426.7	2455.5	2473.5	2483.4	2480.6	2465.9	2423.7	2362.7
-47.5°	2235.5	2289.8	2330.5	2359.7	2381.9	2397.0	2400.6	2394.5	2362.6	2315.2	2232.9
-50°	2158.7	2216.3	2262.0	2288.0	2306.1	2316.6	2311.8	2291.9	2252.3	2187.9	2097.2
-52.5°	2072.6	2136.0	2194.5	2216.4	2227.5	2227.5	2215.6	2180.2	2130.1	2049.6	1943.7
-55°	1983.5	2052.4	2121.9	2141.8	2144.4	2130.8	2104.7	2059.6	1990.1	1902.2	1777.9
-57.5°	1889.1	1962.9	2034.8	2061.5	2051.8	2026.3	1984.2	1926.1	1842.4	1735.9	1607.7
-60°	1784.9	1862.4	1937.7	1978.3	1953.5	1915.4	1856.0	1780.0	1686.6	1567.2	1429.3
-62.5°	1674.7	1755.5	1834.0	1892.7	1849.7	1793.4	1720.3	1627.9	1519.8	1393.6	1241.0
-65°	1556.8	1639.1	1719.8	1793.8	1736.8	1661.6	1573.8	1459.5	1327.9	1188.8	1042.9
-67.5°	1424.3	1505.5	1584.4	1652.8	1586.0	1478.9	1365.1	1244.4	1118.5	989.2	856.6
-70°	1238.7	1302.0	1358.4	1407.4	1361.2	1253.9	1143.1	1028.9	911.4	796.1	685.1
-72.5°	1012.9	1065.6	1111.2	1149.1	1120.7	1018.9	916.6	815.3	715.4	617.3	524.1
-75°	780.6	819.1	850.7	874.9	857.2	771.1	687.8	606.9	527.8	451.0	376.9
-77.5°	548.4	574.7	595.6	610.5	602.0	536.1	471.1	411.1	360.2	311.4	264.9
-80°	349.2	367.6	382.9	394.8	395.9	354.9	314.9	275.9	238.3	205.4	177.8
-82.5°	209.8	220.8	230.1	237.6	240.8	217.6	195.4	174.1	153.9	134.9	117.4
-85°	111.1	116.3	120.9	124.8	127.5	117.7	108.1	98.9	90.0	81.5	73.5
-87.5°	47.7	49.3	50.7	52.0	53.0	50.0	46.9	43.9	41.0	38.0	35.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLL100FSUNVDBZK-80W-3000K

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°	32.2	29.4	26.7	24.0	21.5	19.0	16.4	13.9	11.7	9.5	7.6
85°	66.0	59.1	52.8	47.1	42.2	38.0	32.8	27.8	23.3	19.0	15.2
82.5°	101.5	88.8	77.7	67.5	58.3	50.4	44.5	38.8	33.4	28.2	22.7
80°	152.3	129.0	108.3	90.1	74.7	62.7	55.2	48.1	41.3	34.8	28.8
77.5°	220.9	179.8	141.6	114.4	92.1	75.4	66.2	57.3	49.0	41.3	34.1
75°	305.8	251.4	203.0	158.5	118.1	87.8	77.2	67.0	57.2	47.7	39.3
72.5°	438.1	356.1	278.6	207.8	158.8	122.3	96.7	76.5	65.4	54.8	44.5
70°	577.2	472.8	379.2	293.8	214.4	157.0	126.9	99.1	73.7	61.6	50.3
67.5°	721.3	603.2	489.6	380.6	287.2	219.8	160.8	124.0	94.8	68.5	55.9
65°	898.0	750.0	602.0	481.0	365.9	284.5	217.6	155.4	115.1	85.3	61.2
62.5°	1080.0	914.1	753.5	589.9	456.9	362.6	272.1	202.8	138.6	101.4	72.0
60°	1270.6	1093.8	908.2	731.0	568.7	444.1	342.5	248.0	177.6	116.6	84.5
57.5°	1451.5	1274.6	1080.9	877.8	700.7	544.0	414.6	306.0	214.5	144.5	96.2
55°	1631.2	1454.7	1253.5	1039.5	836.6	657.5	495.7	369.1	254.1	174.2	107.1
52.5°	1804.6	1633.0	1431.6	1203.1	981.7	770.3	592.3	429.9	308.5	202.0	129.1
50°	1969.1	1807.5	1607.1	1367.5	1121.9	895.7	683.5	508.7	360.7	233.8	151.1
47.5°	2125.2	1971.0	1771.8	1522.0	1265.5	1014.1	785.1	585.1	410.6	277.9	171.3
45°	2259.6	2126.0	1915.3	1664.0	1401.2	1134.8	885.9	656.3	473.6	319.9	189.9
42.5°	2388.8	2252.0	2039.8	1798.5	1526.1	1251.3	980.0	738.4	532.4	359.5	217.1
40°	2497.7	2348.5	2152.0	1909.6	1643.2	1360.0	1077.6	817.2	586.6	400.2	249.7
37.5°	2586.0	2430.1	2240.0	2015.7	1750.0	1460.5	1169.3	889.7	640.4	444.4	280.2
35°	2637.7	2501.0	2325.3	2104.2	1842.3	1553.9	1253.6	959.8	700.2	484.5	308.5
32.5°	2688.1	2563.7	2391.0	2179.2	1928.8	1639.8	1331.3	1029.6	754.3	520.5	334.6
30°	2728.0	2609.6	2453.4	2250.6	2004.6	1713.1	1402.6	1092.5	802.7	552.3	359.6
27.5°	2764.7	2655.1	2509.5	2307.8	2064.6	1779.8	1466.7	1148.3	845.3	584.3	385.2
25°	2797.7	2690.3	2548.1	2358.4	2120.0	1840.3	1523.4	1197.2	887.4	618.4	407.4
22.5°	2821.3	2721.2	2585.1	2405.8	2170.7	1894.0	1572.0	1241.9	926.0	647.7	426.3
20°	2844.2	2751.0	2620.0	2446.6	2210.9	1932.4	1613.0	1279.8	958.4	672.1	441.8
17.5°	2865.1	2774.0	2644.1	2472.2	2242.7	1965.2	1647.4	1310.8	984.5	691.6	454.1
15°	2879.6	2790.2	2664.1	2494.6	2269.9	1992.3	1674.9	1334.8	1004.4	706.4	463.1
12.5°	2892.6	2804.5	2681.3	2513.1	2291.9	2013.2	1695.3	1351.7	1018.1	716.4	469.1
10°	2903.9	2816.4	2695.2	2527.5	2308.1	2027.5	1708.5	1361.6	1025.6	721.7	472.0
7.5°	2913.2	2825.6	2705.2	2536.9	2318.1	2034.9	1714.1	1364.5	1027.2	722.6	472.1
5°	2919.9	2831.6	2710.9	2541.1	2321.4	2034.9	1712.1	1360.4	1022.9	719.1	469.3
2.5°	2923.8	2833.8	2711.7	2539.3	2317.5	2027.4	1702.3	1349.2	1012.9	711.4	463.8
0°	2924.3	2832.0	2707.1	2531.2	2305.8	2011.8	1684.6	1331.2	997.4	699.6	455.9
-2.5°	2923.8	2833.8	2711.7	2539.3	2317.5	2027.4	1702.3	1349.2	1012.9	711.4	463.8
-5°	2919.9	2831.6	2710.9	2541.1	2321.4	2034.9	1712.1	1360.4	1022.9	719.1	469.3
-7.5°	2913.2	2825.6	2705.2	2536.9	2318.1	2034.9	1714.1	1364.5	1027.2	722.6	472.1
-10°	2903.9	2816.4	2695.2	2527.5	2308.1	2027.5	1708.5	1361.6	1025.6	721.7	472.0
-12.5°	2892.6	2804.5	2681.3	2513.1	2291.9	2013.2	1695.3	1351.7	1018.1	716.4	469.1
-15°	2879.6	2790.2	2664.1	2494.6	2269.9	1992.3	1674.9	1334.8	1004.4	706.4	463.1
-17.5°	2865.1	2774.0	2644.1	2472.2	2242.7	1965.2	1647.4	1310.8	984.5	691.6	454.1
-20°	2844.2	2751.0	2620.0	2446.6	2210.9	1932.4	1613.0	1279.8	958.4	672.1	441.8



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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°	2821.3	2721.2	2585.1	2405.8	2170.7	1894.0	1572.0	1241.9	926.0	647.7	426.3
-25°	2797.7	2690.3	2548.1	2358.4	2120.0	1840.3	1523.4	1197.2	887.4	618.4	407.4
-27.5°	2764.7	2655.1	2509.5	2307.8	2064.6	1779.8	1466.7	1148.3	845.3	584.3	385.2
-30°	2728.0	2609.6	2453.4	2250.6	2004.6	1713.1	1402.6	1092.5	802.7	552.3	359.6
-32.5°	2688.1	2563.7	2391.0	2179.2	1928.8	1639.8	1331.3	1029.6	754.3	520.5	334.6
-35°	2637.7	2501.0	2325.3	2104.2	1842.3	1553.9	1253.6	959.8	700.2	484.5	308.5
-37.5°	2586.0	2430.1	2240.0	2015.7	1750.0	1460.5	1169.3	889.7	640.4	444.4	280.2
-40°	2497.7	2348.5	2152.0	1909.6	1643.2	1360.0	1077.6	817.2	586.6	400.2	249.7
-42.5°	2388.8	2252.0	2039.8	1798.5	1526.1	1251.3	980.0	738.4	532.4	359.5	217.1
-45°	2259.6	2126.0	1915.3	1664.0	1401.2	1134.8	885.9	656.3	473.6	319.9	189.9
-47.5°	2125.2	1971.0	1771.8	1522.0	1265.5	1014.1	785.1	585.1	410.6	277.9	171.3
-50°	1969.1	1807.5	1607.1	1367.5	1121.9	895.7	683.5	508.7	360.7	233.8	151.1
-52.5°	1804.6	1633.0	1431.6	1203.1	981.7	770.3	592.3	429.9	308.5	202.0	129.1
-55°	1631.2	1454.7	1253.5	1039.5	836.6	657.5	495.7	369.1	254.1	174.2	107.1
-57.5°	1451.5	1274.6	1080.9	877.8	700.7	544.0	414.6	306.0	214.5	144.5	96.2
-60°	1270.6	1093.8	908.2	731.0	568.7	444.1	342.5	248.0	177.6	116.6	84.5
-62.5°	1080.0	914.1	753.5	589.9	456.9	362.6	272.1	202.8	138.6	101.4	72.0
-65°	898.0	750.0	602.0	481.0	365.9	284.5	217.6	155.4	115.1	85.3	61.2
-67.5°	721.3	603.2	489.6	380.6	287.2	219.8	160.8	124.0	94.8	68.5	55.9
-70°	577.2	472.8	379.2	293.8	214.4	157.0	126.9	99.1	73.7	61.6	50.3
-72.5°	438.1	356.1	278.6	207.8	158.8	122.3	96.7	76.5	65.4	54.8	44.5
-75°	305.8	251.4	203.0	158.5	118.1	87.8	77.2	67.0	57.2	47.7	39.3
-77.5°	220.9	179.8	141.6	114.4	92.1	75.4	66.2	57.3	49.0	41.3	34.1
-80°	152.3	129.0	108.3	90.1	74.7	62.7	55.2	48.1	41.3	34.8	28.8
-82.5°	101.5	88.8	77.7	67.5	58.3	50.4	44.5	38.8	33.4	28.2	22.7
-85°	66.0	59.1	52.8	47.1	42.2	38.0	32.8	27.8	23.3	19.0	15.2
-87.5°	32.2	29.4	26.7	24.0	21.5	19.0	16.4	13.9	11.7	9.5	7.6
-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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Scaled Data Report



REPORT NUMBER: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	5.9	4.4	3.1	2.0	1.1	0.4	0.0
85°	11.8	8.8	6.1	4.0	2.2	0.9	0.0
82.5°	17.6	13.1	9.2	5.9	3.3	1.3	0.0
80°	23.1	17.3	12.1	7.8	4.3	1.7	0.0
77.5°	27.4	21.2	15.0	9.7	5.4	2.2	0.0
75°	31.5	24.4	17.8	11.6	6.4	2.6	0.0
72.5°	35.5	27.5	20.1	13.4	7.4	3.0	0.0
70°	39.5	30.4	22.3	15.0	8.4	3.4	0.0
67.5°	44.1	33.3	24.4	16.5	9.3	3.8	0.0
65°	48.5	36.5	26.5	17.9	10.2	4.1	0.0
62.5°	52.8	39.9	28.4	19.2	11.1	4.5	0.0
60°	56.9	43.2	30.2	20.5	11.9	4.8	0.0
57.5°	65.7	46.3	32.6	21.7	12.6	5.2	0.0
55°	74.5	49.2	34.9	22.8	13.3	5.5	0.0
52.5°	82.7	52.6	37.0	23.9	14.0	5.8	0.0
50°	90.3	58.6	39.0	24.9	14.6	6.1	0.0
47.5°	98.6	64.1	40.9	25.9	15.2	6.3	0.0
45°	114.3	69.2	42.6	27.1	15.7	6.6	0.0
42.5°	128.6	73.7	44.2	28.3	16.2	6.8	0.0
40°	141.6	77.7	46.5	29.4	16.6	7.0	0.0
37.5°	153.2	81.1	49.5	30.4	17.0	7.2	0.0
35°	163.4	87.9	52.0	31.3	17.3	7.3	0.0
32.5°	176.3	95.8	54.2	32.0	17.6	7.5	0.0
30°	196.8	102.7	56.0	32.7	17.8	7.6	0.0
27.5°	215.3	108.5	57.5	33.2	18.0	7.7	0.0
25°	231.9	113.4	58.6	33.6	18.1	7.8	0.0
22.5°	246.4	117.2	59.4	34.0	18.2	7.8	0.0
20°	258.9	120.1	59.8	34.2	18.2	7.9	0.0
17.5°	269.4	122.0	60.0	34.3	18.2	7.9	0.0
15°	277.8	123.0	59.8	34.3	18.1	7.9	0.0
12.5°	284.1	123.2	59.4	34.2	18.0	7.9	0.0
10°	288.3	122.5	58.7	34.0	17.9	7.8	0.0
7.5°	290.5	121.0	57.7	33.7	17.7	7.8	0.0
5°	290.6	118.8	56.6	33.3	17.4	7.7	0.0
2.5°	288.6	115.9	55.2	32.8	17.1	7.6	0.0
0°	284.6	112.4	53.6	32.2	16.8	7.5	0.0
-2.5°	288.6	115.9	55.2	32.8	17.1	7.6	0.0
-5°	290.6	118.8	56.6	33.3	17.4	7.7	0.0
-7.5°	290.5	121.0	57.7	33.7	17.7	7.8	0.0
-10°	288.3	122.5	58.7	34.0	17.9	7.8	0.0
-12.5°	284.1	123.2	59.4	34.2	18.0	7.9	0.0
-15°	277.8	123.0	59.8	34.3	18.1	7.9	0.0
-17.5°	269.4	122.0	60.0	34.3	18.2	7.9	0.0
-20°	258.9	120.1	59.8	34.2	18.2	7.9	0.0

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REPORT NUMBER: P670560 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	246.4	117.2	59.4	34.0	18.2	7.8	0.0
-25°	231.9	113.4	58.6	33.6	18.1	7.8	0.0
-27.5°	215.3	108.5	57.5	33.2	18.0	7.7	0.0
-30°	196.8	102.7	56.0	32.7	17.8	7.6	0.0
-32.5°	176.3	95.8	54.2	32.0	17.6	7.5	0.0
-35°	163.4	87.9	52.0	31.3	17.3	7.3	0.0
-37.5°	153.2	81.1	49.5	30.4	17.0	7.2	0.0
-40°	141.6	77.7	46.5	29.4	16.6	7.0	0.0
-42.5°	128.6	73.7	44.2	28.3	16.2	6.8	0.0
-45°	114.3	69.2	42.6	27.1	15.7	6.6	0.0
-47.5°	98.6	64.1	40.9	25.9	15.2	6.3	0.0
-50°	90.3	58.6	39.0	24.9	14.6	6.1	0.0
-52.5°	82.7	52.6	37.0	23.9	14.0	5.8	0.0
-55°	74.5	49.2	34.9	22.8	13.3	5.5	0.0
-57.5°	65.7	46.3	32.6	21.7	12.6	5.2	0.0
-60°	56.9	43.2	30.2	20.5	11.9	4.8	0.0
-62.5°	52.8	39.9	28.4	19.2	11.1	4.5	0.0
-65°	48.5	36.5	26.5	17.9	10.2	4.1	0.0
-67.5°	44.1	33.3	24.4	16.5	9.3	3.8	0.0
-70°	39.5	30.4	22.3	15.0	8.4	3.4	0.0
-72.5°	35.5	27.5	20.1	13.4	7.4	3.0	0.0
-75°	31.5	24.4	17.8	11.6	6.4	2.6	0.0
-77.5°	27.4	21.2	15.0	9.7	5.4	2.2	0.0
-80°	23.1	17.3	12.1	7.8	4.3	1.7	0.0
-82.5°	17.6	13.1	9.2	5.9	3.3	1.3	0.0
-85°	11.8	8.8	6.1	4.0	2.2	0.9	0.0
-87.5°	5.9	4.4	3.1	2.0	1.1	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)