

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: P670573 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLXL150FSUNVDBZSF-100W-4000K

Issue Date: 4/3/2023

Test Information

Test Method: LM-79-2019
Report Number: P670573 (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: GFLXL150FSUNVDBZSF-100W-4000K
Description: SLIM LED FLOODLIGHT
Light Source:
Ballast/Driver: -

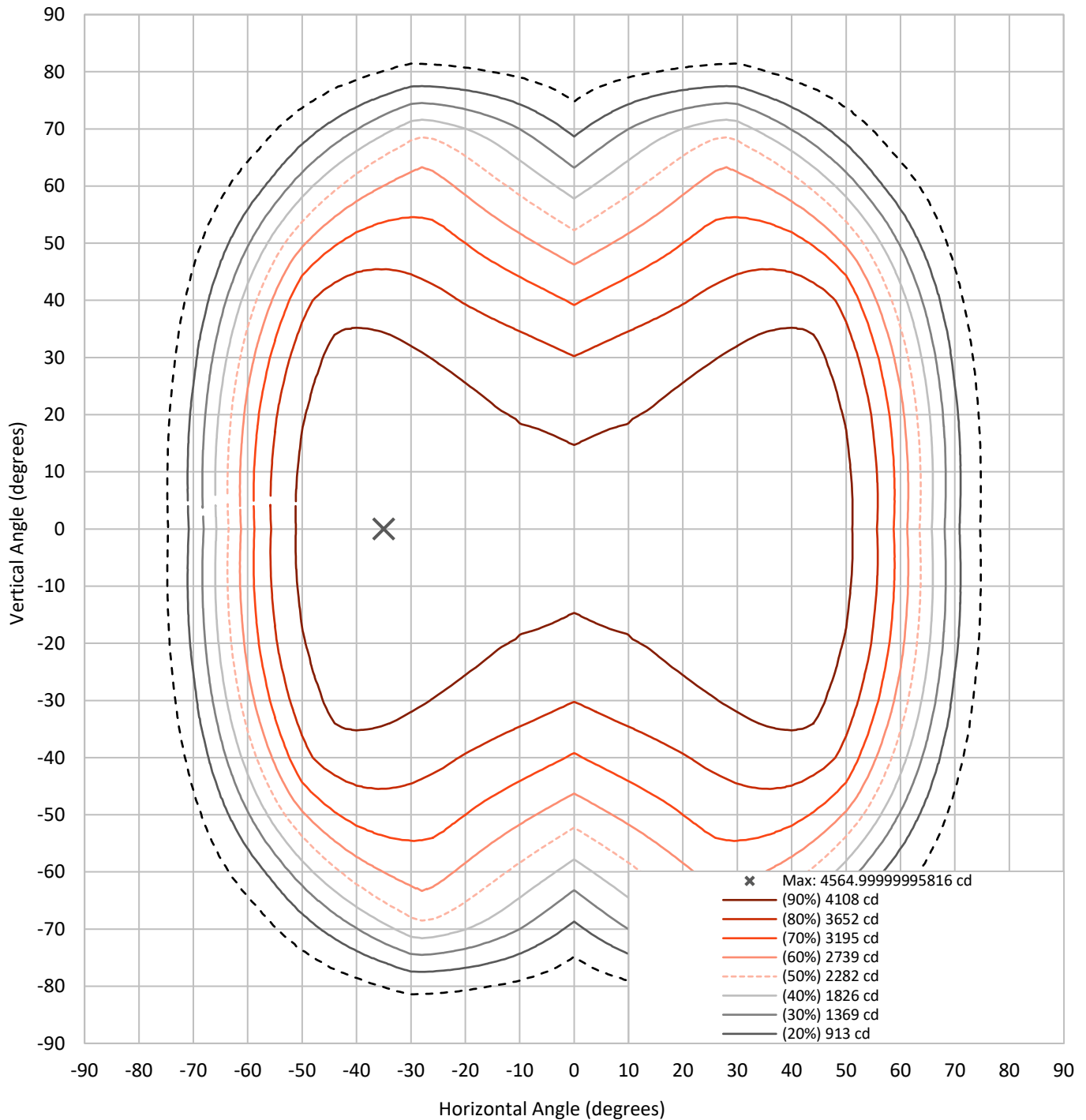
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15702.8 lumens	Max Intensity:	4565 candela
Efficiency:	N/A	Max Intensity Angle:	-35°H x 0°V
Efficacy:	160.1 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.48' x L: 0.66' x H: 0.26')		
Beam Angle (50%):	127°H x 130.8°V	Field Angle (10%):	149.3°H x 160.3°V
Beam Lumens:	13629.7 lumens	Field Lumens:	15511.7 lumens
Beam Efficiency:	86.8%	Field Efficiency:	98.8%
Input Watts (W):	98.1		
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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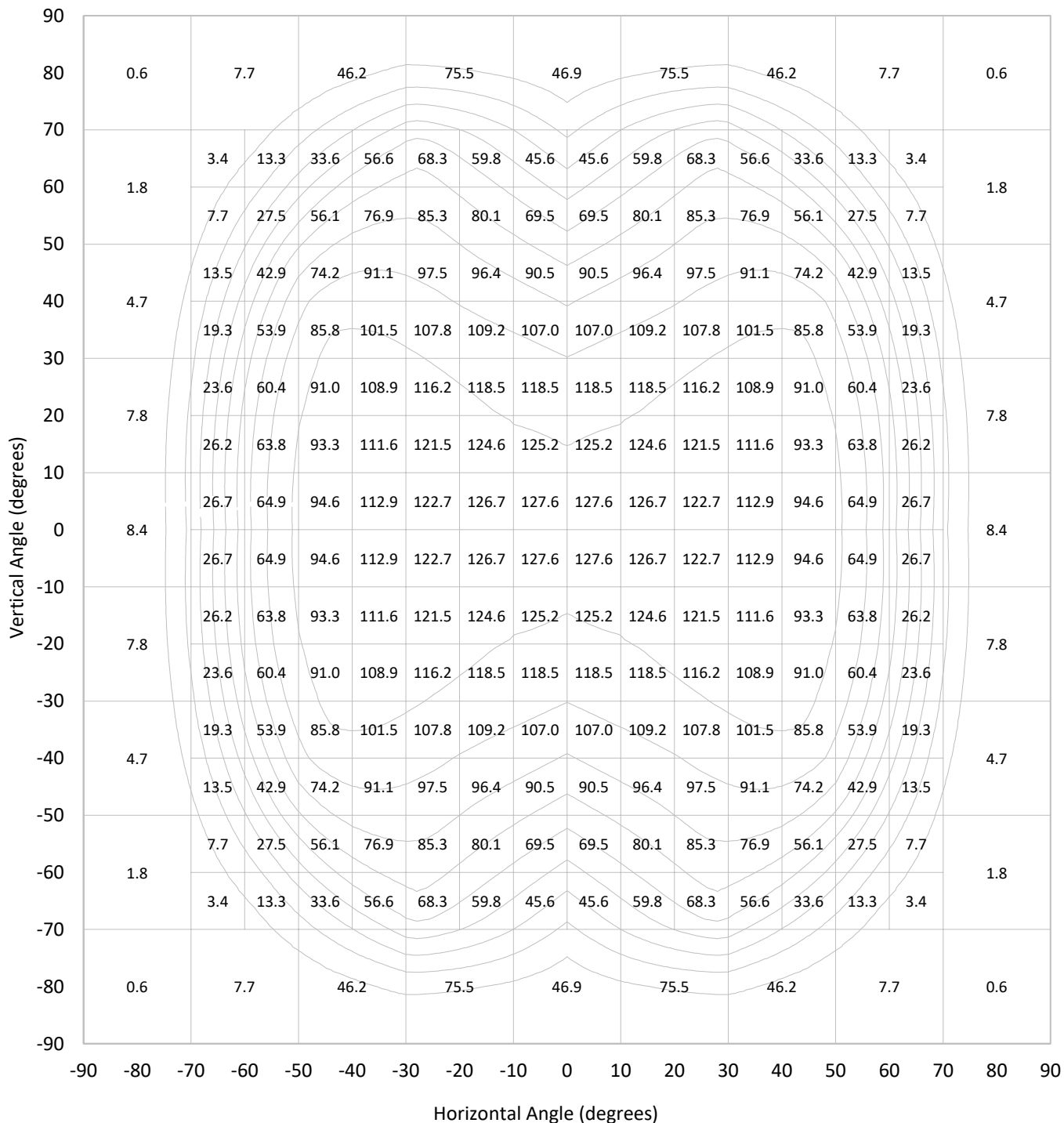
Iso-Candela Plot





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Lumen Table



Classified

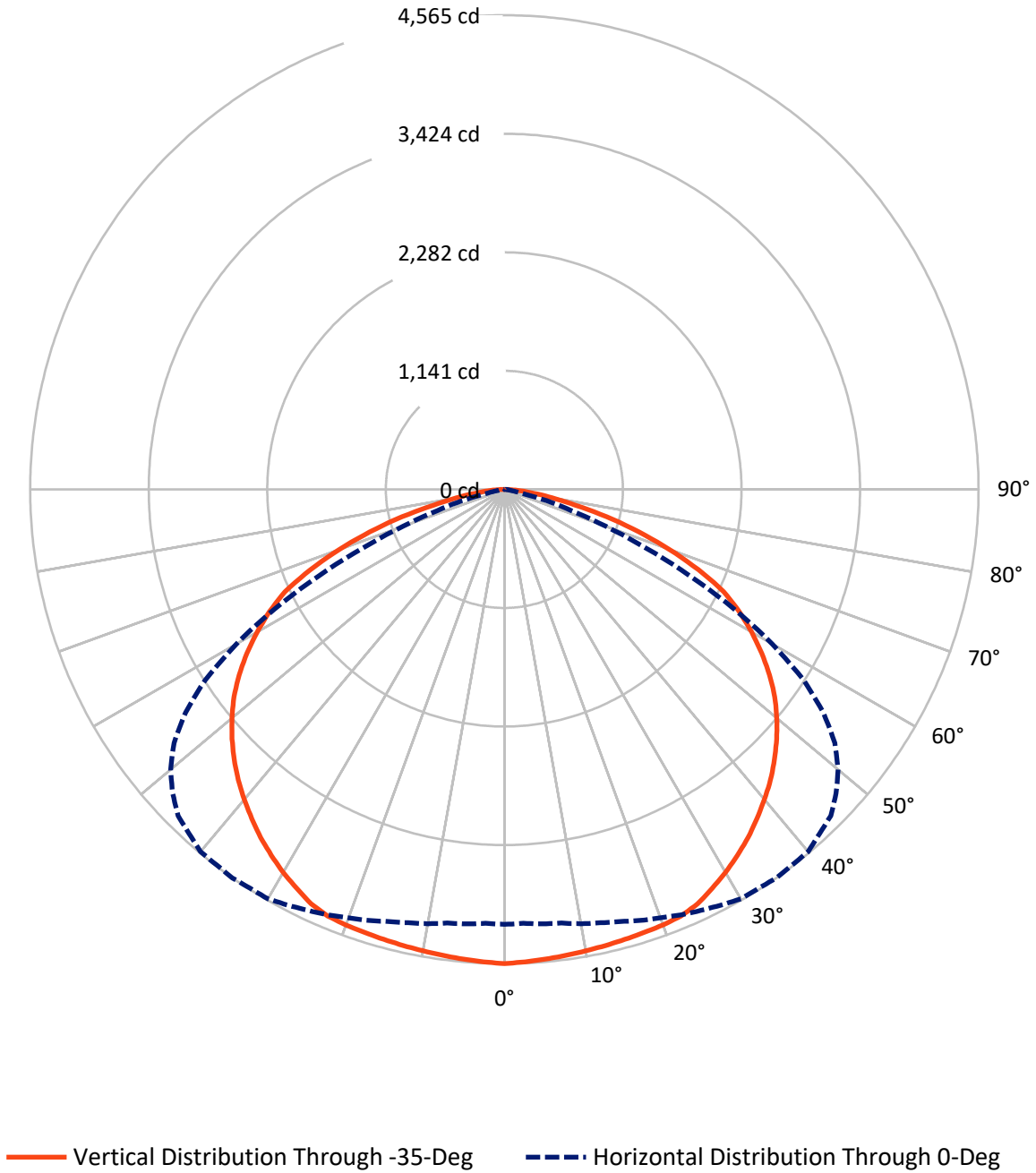
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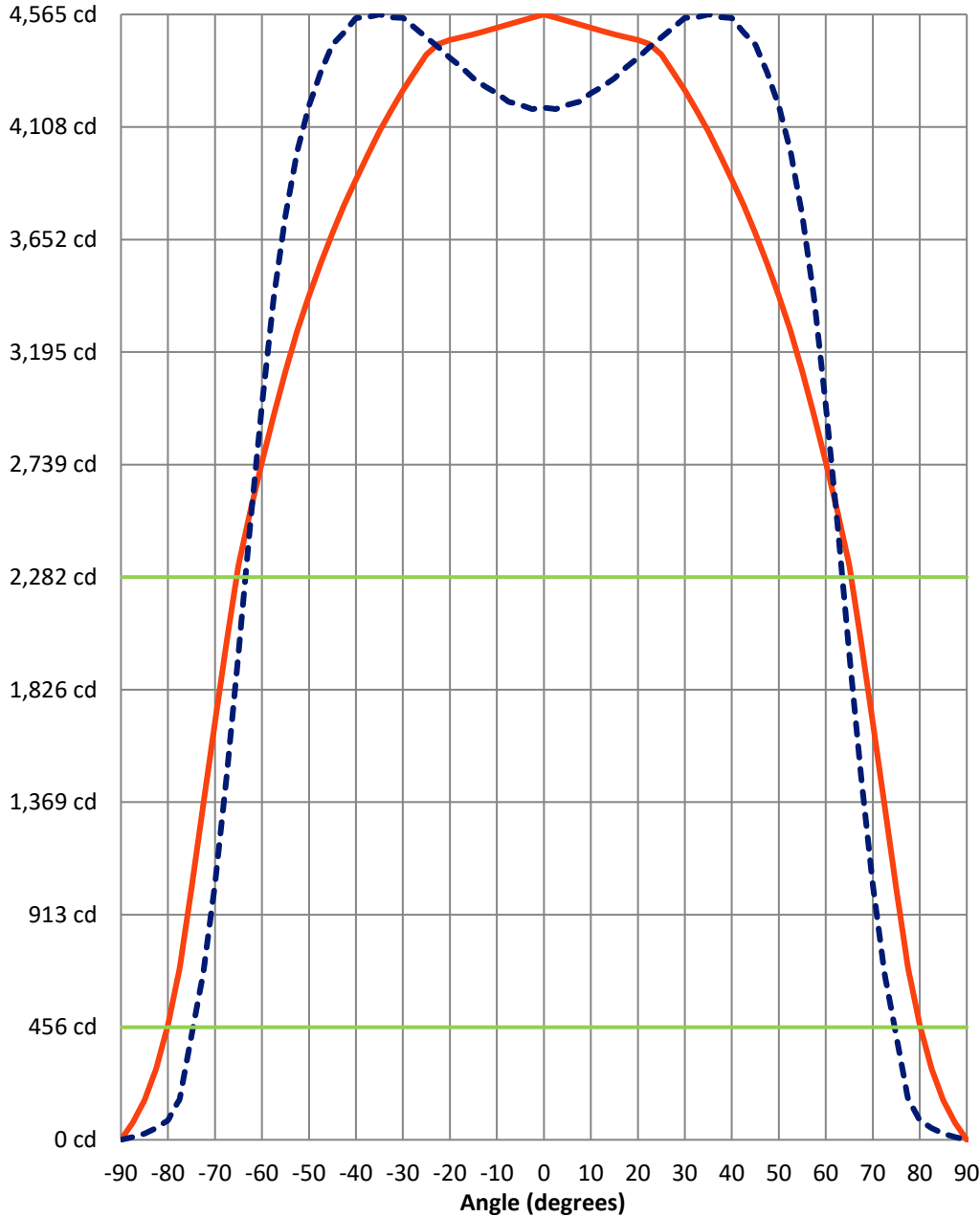
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 127°
 V Angle: 130.8°
 Lumens: 13629.7
 Efficiency: 86.8%

Field:
 H Angle: 149.3°
 V Angle: 160.3°
 Lumens: 15511.7
 Efficiency: 98.8%

Spill:
 Lumens: 191.2
 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	0.6	1.6	2.9	4.5	6.5	8.7	11.3	14.1	17.2	20.6
85°	0.0	1.3	3.3	5.8	9.1	12.9	17.4	22.5	28.1	34.4	41.2
82.5°	0.0	1.9	4.9	8.7	13.5	19.3	26.0	33.6	41.8	49.4	57.5
80°	0.0	2.6	6.4	11.6	18.0	25.6	34.2	42.6	51.5	61.1	71.2
77.5°	0.0	3.2	8.0	14.3	22.3	31.3	40.5	50.5	61.1	72.6	84.9
75°	0.0	3.8	9.5	17.1	26.3	36.0	46.6	58.1	70.6	84.7	99.3
72.5°	0.0	4.4	11.0	19.7	29.7	40.6	52.6	65.9	81.1	96.9	113.3
70°	0.0	5.0	12.5	22.2	33.0	45.0	58.4	74.5	91.2	109.2	146.7
67.5°	0.0	5.6	13.9	24.4	36.2	49.3	65.3	82.7	101.4	140.4	183.6
65°	0.0	6.1	15.2	26.5	39.2	54.0	71.8	90.7	126.4	170.4	230.1
62.5°	0.0	6.7	16.5	28.5	42.1	59.0	78.1	106.7	150.2	205.3	300.3
60°	0.0	7.2	17.7	30.3	44.8	63.9	84.2	125.2	172.7	263.0	367.2
57.5°	0.0	7.7	18.8	32.1	48.3	68.5	97.2	142.5	213.9	317.7	453.2
55°	0.0	8.2	19.8	33.8	51.7	72.8	110.3	158.7	257.9	376.3	546.7
52.5°	0.0	8.6	20.8	35.4	54.9	77.8	122.5	191.3	299.1	456.9	636.7
50°	0.0	9.0	21.7	36.8	57.9	86.8	133.7	223.7	346.2	534.2	753.4
47.5°	0.0	9.4	22.6	38.3	60.6	95.0	146.0	253.7	411.6	608.1	866.5
45°	0.0	9.7	23.3	40.2	63.2	102.4	169.2	281.2	473.7	701.3	972.0
42.5°	0.0	10.1	24.0	41.9	65.5	109.1	190.5	321.5	532.4	788.5	1093.5
40°	0.0	10.4	24.7	43.5	69.0	115.0	209.7	369.7	592.7	868.7	1210.2
37.5°	0.0	10.6	25.2	45.0	73.3	120.1	226.9	414.9	658.1	948.3	1317.5
35°	0.0	10.9	25.7	46.3	77.0	130.2	242.0	456.9	717.5	1036.8	1421.3
32.5°	0.0	11.1	26.1	47.4	80.3	141.9	261.0	495.5	770.8	1117.0	1524.7
30°	0.0	11.3	26.5	48.4	83.0	152.1	291.4	532.5	818.0	1188.7	1617.8
27.5°	0.0	11.4	26.7	49.2	85.2	160.7	318.9	570.4	865.2	1251.8	1700.6
25°	0.0	11.5	26.9	49.8	86.8	167.9	343.4	603.3	915.9	1314.1	1772.9
22.5°	0.0	11.6	27.0	50.3	88.0	173.6	365.0	631.3	959.3	1371.3	1839.1
20°	0.0	11.7	27.0	50.6	88.7	177.9	383.5	654.3	995.4	1419.3	1895.3
17.5°	0.0	11.7	27.0	50.8	88.9	180.7	399.0	672.4	1024.3	1457.9	1941.1
15°	0.0	11.7	26.9	50.8	88.7	182.2	411.4	685.8	1046.0	1487.3	1976.7
12.5°	0.0	11.6	26.7	50.6	88.0	182.4	420.7	694.6	1060.8	1507.6	2001.8
10°	0.0	11.6	26.5	50.3	86.9	181.4	427.0	699.0	1068.8	1518.9	2016.5
7.5°	0.0	11.5	26.2	49.8	85.5	179.2	430.2	699.0	1070.1	1521.2	2020.7
5°	0.0	11.4	25.8	49.2	83.7	176.0	430.3	694.9	1064.9	1514.9	2014.5
2.5°	0.0	11.3	25.4	48.5	81.7	171.7	427.4	686.8	1053.5	1500.1	1998.1
0°	0.0	11.1	24.9	47.6	79.3	166.5	421.4	675.1	1036.1	1477.0	1971.4
-2.5°	0.0	11.3	25.4	48.5	81.7	171.7	427.4	686.8	1053.5	1500.1	1998.1
-5°	0.0	11.4	25.8	49.2	83.7	176.0	430.3	694.9	1064.9	1514.9	2014.5
-7.5°	0.0	11.5	26.2	49.8	85.5	179.2	430.2	699.0	1070.1	1521.2	2020.7
-10°	0.0	11.6	26.5	50.3	86.9	181.4	427.0	699.0	1068.8	1518.9	2016.5
-12.5°	0.0	11.6	26.7	50.6	88.0	182.4	420.7	694.6	1060.8	1507.6	2001.8
-15°	0.0	11.7	26.9	50.8	88.7	182.2	411.4	685.8	1046.0	1487.3	1976.7
-17.5°	0.0	11.7	27.0	50.8	88.9	180.7	399.0	672.4	1024.3	1457.9	1941.1
-20°	0.0	11.7	27.0	50.6	88.7	177.9	383.5	654.3	995.4	1419.3	1895.3

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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	11.6	27.0	50.3	88.0	173.6	365.0	631.3	959.3	1371.3	1839.1
-25°	0.0	11.5	26.9	49.8	86.8	167.9	343.4	603.3	915.9	1314.1	1772.9
-27.5°	0.0	11.4	26.7	49.2	85.2	160.7	318.9	570.4	865.2	1251.8	1700.6
-30°	0.0	11.3	26.5	48.4	83.0	152.1	291.4	532.5	818.0	1188.7	1617.8
-32.5°	0.0	11.1	26.1	47.4	80.3	141.9	261.0	495.5	770.8	1117.0	1524.7
-35°	0.0	10.9	25.7	46.3	77.0	130.2	242.0	456.9	717.5	1036.8	1421.3
-37.5°	0.0	10.6	25.2	45.0	73.3	120.1	226.9	414.9	658.1	948.3	1317.5
-40°	0.0	10.4	24.7	43.5	69.0	115.0	209.7	369.7	592.7	868.7	1210.2
-42.5°	0.0	10.1	24.0	41.9	65.5	109.1	190.5	321.5	532.4	788.5	1093.5
-45°	0.0	9.7	23.3	40.2	63.2	102.4	169.2	281.2	473.7	701.3	972.0
-47.5°	0.0	9.4	22.6	38.3	60.6	95.0	146.0	253.7	411.6	608.1	866.5
-50°	0.0	9.0	21.7	36.8	57.9	86.8	133.7	223.7	346.2	534.2	753.4
-52.5°	0.0	8.6	20.8	35.4	54.9	77.8	122.5	191.3	299.1	456.9	636.7
-55°	0.0	8.2	19.8	33.8	51.7	72.8	110.3	158.7	257.9	376.3	546.7
-57.5°	0.0	7.7	18.8	32.1	48.3	68.5	97.2	142.5	213.9	317.7	453.2
-60°	0.0	7.2	17.7	30.3	44.8	63.9	84.2	125.2	172.7	263.0	367.2
-62.5°	0.0	6.7	16.5	28.5	42.1	59.0	78.1	106.7	150.2	205.3	300.3
-65°	0.0	6.1	15.2	26.5	39.2	54.0	71.8	90.7	126.4	170.4	230.1
-67.5°	0.0	5.6	13.9	24.4	36.2	49.3	65.3	82.7	101.4	140.4	183.6
-70°	0.0	5.0	12.5	22.2	33.0	45.0	58.4	74.5	91.2	109.2	146.7
-72.5°	0.0	4.4	11.0	19.7	29.7	40.6	52.6	65.9	81.1	96.9	113.3
-75°	0.0	3.8	9.5	17.1	26.3	36.0	46.6	58.1	70.6	84.7	99.3
-77.5°	0.0	3.2	8.0	14.3	22.3	31.3	40.5	50.5	61.1	72.6	84.9
-80°	0.0	2.6	6.4	11.6	18.0	25.6	34.2	42.6	51.5	61.1	71.2
-82.5°	0.0	1.9	4.9	8.7	13.5	19.3	26.0	33.6	41.8	49.4	57.5
-85°	0.0	1.3	3.3	5.8	9.1	12.9	17.4	22.5	28.1	34.4	41.2
-87.5°	0.0	0.6	1.6	2.9	4.5	6.5	8.7	11.3	14.1	17.2	20.6
-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):

	-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°	24.3	28.2	31.8	35.6	39.5	43.6	47.7	51.9	56.3	60.6	65.1
85°	48.4	56.2	62.5	69.8	78.2	87.5	97.8	108.9	120.7	133.2	146.5
82.5°	65.9	74.7	86.4	99.9	115.0	131.6	150.3	174.0	199.8	227.8	257.8
80°	81.8	92.9	110.7	133.4	160.3	191.1	225.5	263.3	304.2	352.9	408.6
77.5°	98.1	111.6	136.4	169.4	209.7	266.2	327.2	392.3	461.2	533.4	608.7
75°	114.4	129.9	174.9	234.7	300.6	372.4	452.9	558.2	667.9	781.6	898.7
72.5°	143.2	181.1	235.2	307.8	412.6	527.4	648.8	776.2	914.2	1059.5	1207.5
70°	187.9	232.5	317.5	435.2	561.5	700.1	854.8	1014.6	1178.9	1349.6	1523.7
67.5°	238.0	325.5	425.2	563.7	724.9	893.3	1068.3	1268.6	1464.9	1656.3	1842.9
65°	322.3	421.4	541.8	712.4	891.4	1110.6	1329.9	1544.5	1760.4	1966.6	2161.3
62.5°	403.0	537.0	676.6	873.6	1115.8	1353.7	1599.3	1837.8	2063.8	2250.7	2410.7
60°	507.2	657.7	842.2	1082.6	1345.0	1619.9	1881.7	2116.6	2320.9	2497.6	2636.0
57.5°	614.0	805.6	1037.5	1299.9	1600.7	1887.6	2149.5	2380.9	2570.6	2728.3	2852.4
55°	734.1	973.7	1238.8	1539.4	1856.3	2154.3	2415.5	2632.9	2816.9	2947.2	3050.0
52.5°	877.2	1140.8	1453.7	1781.6	2120.0	2418.4	2672.3	2878.5	3035.3	3154.5	3228.6
50°	1012.2	1326.4	1661.5	2025.1	2379.9	2676.7	2916.0	3105.7	3240.0	3335.4	3394.0
47.5°	1162.7	1501.8	1874.1	2253.9	2623.8	2918.7	3147.1	3306.7	3428.5	3498.7	3545.9
45°	1311.9	1680.5	2075.0	2464.2	2836.3	3148.5	3346.2	3498.8	3589.3	3651.7	3673.4
42.5°	1451.2	1853.0	2259.9	2663.3	3020.8	3335.0	3537.6	3658.2	3742.1	3780.8	3795.7
40°	1595.7	2014.0	2433.4	2827.9	3186.9	3477.9	3698.8	3814.1	3872.0	3902.0	3912.2
37.5°	1731.6	2162.8	2591.6	2984.9	3317.1	3598.6	3829.6	3942.1	3993.1	4018.4	4011.9
35°	1856.4	2301.1	2728.1	3116.0	3443.5	3703.7	3906.1	4060.4	4107.4	4117.1	4110.2
32.5°	1971.5	2428.4	2856.3	3227.1	3540.7	3796.5	3980.8	4118.0	4208.2	4215.2	4203.7
30°	2077.1	2536.9	2968.6	3332.9	3633.1	3864.5	4039.9	4172.6	4263.0	4305.1	4288.3
27.5°	2172.0	2635.8	3057.4	3417.6	3716.3	3931.8	4094.1	4212.4	4298.2	4359.7	4368.8
25°	2256.0	2725.3	3139.5	3492.5	3773.5	3984.0	4143.1	4252.9	4330.9	4383.8	4413.0
22.5°	2327.9	2804.8	3214.5	3562.7	3828.2	4029.8	4177.9	4283.6	4359.7	4409.7	4429.7
20°	2388.7	2861.6	3274.0	3623.1	3879.8	4073.9	4211.9	4312.2	4383.7	4425.2	4447.3
17.5°	2439.6	2910.3	3321.2	3661.1	3915.6	4108.0	4243.0	4340.2	4408.6	4441.3	4466.4
15°	2480.4	2950.4	3361.5	3694.1	3945.2	4132.0	4264.3	4360.9	4427.1	4457.8	4486.6
12.5°	2510.6	2981.3	3394.0	3721.6	3970.6	4153.2	4283.6	4380.1	4440.5	4475.1	4497.5
10°	2530.1	3002.5	3418.0	3742.8	3991.2	4170.8	4300.4	4397.9	4453.4	4492.4	4508.8
7.5°	2538.4	3013.4	3432.8	3756.9	4006.1	4184.4	4314.1	4413.8	4465.4	4509.2	4520.1
5°	2535.5	3013.4	3437.7	3763.0	4014.5	4193.2	4324.1	4427.2	4476.2	4524.8	4531.6
2.5°	2521.0	3002.2	3431.9	3760.5	4015.7	4196.6	4329.8	4437.1	4485.4	4538.8	4543.1
0°	2494.7	2979.3	3414.6	3748.5	4008.9	4193.8	4330.6	4442.8	4492.5	4550.4	4554.4
-2.5°	2521.0	3002.2	3431.9	3760.5	4015.7	4196.6	4329.8	4437.1	4485.4	4538.8	4543.1
-5°	2535.5	3013.4	3437.7	3763.0	4014.5	4193.2	4324.1	4427.2	4476.2	4524.8	4531.6
-7.5°	2538.4	3013.4	3432.8	3756.9	4006.1	4184.4	4314.1	4413.8	4465.4	4509.2	4520.1
-10°	2530.1	3002.5	3418.0	3742.8	3991.2	4170.8	4300.4	4397.9	4453.4	4492.4	4508.8
-12.5°	2510.6	2981.3	3394.0	3721.6	3970.6	4153.2	4283.6	4380.1	4440.5	4475.1	4497.5
-15°	2480.4	2950.4	3361.5	3694.1	3945.2	4132.0	4264.3	4360.9	4427.1	4457.8	4486.6
-17.5°	2439.6	2910.3	3321.2	3661.1	3915.6	4108.0	4243.0	4340.2	4408.6	4441.3	4466.4
-20°	2388.7	2861.6	3274.0	3623.1	3879.8	4073.9	4211.9	4312.2	4383.7	4425.2	4447.3



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 CATALOG NUMBER: GFLXL150FSUNVDBZSF-100W-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2327.9	2804.8	3214.5	3562.7	3828.2	4029.8	4177.9	4283.6	4359.7	4409.7	4429.7
-25°	2256.0	2725.3	3139.5	3492.5	3773.5	3984.0	4143.1	4252.9	4330.9	4383.8	4413.0
-27.5°	2172.0	2635.8	3057.4	3417.6	3716.3	3931.8	4094.1	4212.4	4298.2	4359.7	4368.8
-30°	2077.1	2536.9	2968.6	3332.9	3633.1	3864.5	4039.9	4172.6	4263.0	4305.1	4288.3
-32.5°	1971.5	2428.4	2856.3	3227.1	3540.7	3796.5	3980.8	4118.0	4208.2	4215.2	4203.7
-35°	1856.4	2301.1	2728.1	3116.0	3443.5	3703.7	3906.1	4060.4	4107.4	4117.1	4110.2
-37.5°	1731.6	2162.8	2591.6	2984.9	3317.1	3598.6	3829.6	3942.1	3993.1	4018.4	4011.9
-40°	1595.7	2014.0	2433.4	2827.9	3186.9	3477.9	3698.8	3814.1	3872.0	3902.0	3912.2
-42.5°	1451.2	1853.0	2259.9	2663.3	3020.8	3335.0	3537.6	3658.2	3742.1	3780.8	3795.7
-45°	1311.9	1680.5	2075.0	2464.2	2836.3	3148.5	3346.2	3498.8	3589.3	3651.7	3673.4
-47.5°	1162.7	1501.8	1874.1	2253.9	2623.8	2918.7	3147.1	3306.7	3428.5	3498.7	3545.9
-50°	1012.2	1326.4	1661.5	2025.1	2379.9	2676.7	2916.0	3105.7	3240.0	3335.4	3394.0
-52.5°	877.2	1140.8	1453.7	1781.6	2120.0	2418.4	2672.3	2878.5	3035.3	3154.5	3228.6
-55°	734.1	973.7	1238.8	1539.4	1856.3	2154.3	2415.5	2632.9	2816.9	2947.2	3050.0
-57.5°	614.0	805.6	1037.5	1299.9	1600.7	1887.6	2149.5	2380.9	2570.6	2728.3	2852.4
-60°	507.2	657.7	842.2	1082.6	1345.0	1619.9	1881.7	2116.6	2320.9	2497.6	2636.0
-62.5°	403.0	537.0	676.6	873.6	1115.8	1353.7	1599.3	1837.8	2063.8	2250.7	2410.7
-65°	322.3	421.4	541.8	712.4	891.4	1110.6	1329.9	1544.5	1760.4	1966.6	2161.3
-67.5°	238.0	325.5	425.2	563.7	724.9	893.3	1068.3	1268.6	1464.9	1656.3	1842.9
-70°	187.9	232.5	317.5	435.2	561.5	700.1	854.8	1014.6	1178.9	1349.6	1523.7
-72.5°	143.2	181.1	235.2	307.8	412.6	527.4	648.8	776.2	914.2	1059.5	1207.5
-75°	114.4	129.9	174.9	234.7	300.6	372.4	452.9	558.2	667.9	781.6	898.7
-77.5°	98.1	111.6	136.4	169.4	209.7	266.2	327.2	392.3	461.2	533.4	608.7
-80°	81.8	92.9	110.7	133.4	160.3	191.1	225.5	263.3	304.2	352.9	408.6
-82.5°	65.9	74.7	86.4	99.9	115.0	131.6	150.3	174.0	199.8	227.8	257.8
-85°	48.4	56.2	62.5	69.8	78.2	87.5	97.8	108.9	120.7	133.2	146.5
-87.5°	24.3	28.2	31.8	35.6	39.5	43.6	47.7	51.9	56.3	60.6	65.1
-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: P670573 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL150FSUNVDBZSF-100W-4000K

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°	69.5	74.0	78.4	76.9	75.1	72.9	70.5	67.8	64.9	61.8	58.5
85°	160.1	174.3	188.7	184.8	179.1	172.3	164.5	155.9	146.6	136.5	125.8
82.5°	289.3	322.3	356.5	351.9	340.8	327.0	310.7	292.0	271.5	249.1	225.1
80°	466.2	525.6	586.2	584.8	567.1	544.4	517.2	485.7	450.6	412.0	370.6
77.5°	697.6	793.9	891.4	904.1	882.0	851.1	812.1	765.6	712.3	653.0	588.7
75°	1018.6	1142.0	1269.4	1295.6	1259.7	1212.9	1156.0	1089.7	1014.8	932.4	843.3
72.5°	1357.5	1508.8	1659.5	1701.7	1645.5	1578.0	1500.0	1412.1	1315.3	1210.4	1098.4
70°	1692.8	1856.9	2015.8	2084.3	2011.7	1928.2	1834.3	1730.8	1618.3	1497.6	1369.4
67.5°	2021.5	2190.1	2348.8	2447.7	2346.4	2229.5	2109.2	1985.4	1858.0	1727.0	1592.2
65°	2330.6	2460.7	2572.0	2656.5	2546.9	2427.3	2305.4	2180.9	2053.6	1923.2	1789.5
62.5°	2547.6	2655.9	2739.2	2802.9	2716.0	2599.7	2480.0	2358.6	2235.1	2109.2	1980.4
60°	2748.5	2836.5	2892.9	2929.7	2869.5	2758.0	2643.2	2527.4	2409.8	2290.0	2167.5
57.5°	2938.3	3000.8	3038.4	3052.8	3013.2	2906.8	2797.6	2686.8	2575.4	2462.8	2348.1
55°	3116.8	3155.5	3175.5	3171.7	3142.2	3039.4	2937.4	2834.6	2731.8	2628.0	2522.3
52.5°	3281.0	3298.6	3298.7	3282.2	3249.8	3163.2	3069.3	2975.7	2881.9	2787.1	2690.4
50°	3423.4	3430.6	3415.1	3388.3	3349.7	3282.1	3196.7	3110.7	3023.8	2936.8	2848.6
47.5°	3555.0	3549.7	3527.4	3494.5	3451.2	3390.9	3310.6	3233.0	3158.0	3082.1	3004.1
45°	3677.7	3663.0	3636.3	3593.6	3544.2	3492.1	3426.1	3359.8	3289.7	3219.5	3148.7
42.5°	3792.5	3768.8	3733.8	3692.4	3646.9	3593.1	3529.2	3466.0	3405.8	3345.7	3283.7
40°	3894.9	3868.5	3834.0	3792.3	3738.4	3681.0	3625.0	3572.7	3520.6	3466.8	3411.4
37.5°	3994.3	3967.1	3927.0	3878.5	3827.6	3776.1	3722.3	3673.5	3627.5	3578.8	3529.0
35°	4090.7	4055.1	4012.1	3964.9	3917.0	3867.3	3815.5	3764.1	3722.3	3680.1	3637.1
32.5°	4175.8	4138.1	4093.7	4048.7	4003.0	3951.5	3900.1	3847.5	3809.5	3773.1	3734.6
30°	4257.3	4215.2	4172.7	4129.0	4078.8	4029.8	3981.1	3930.5	3887.6	3855.8	3823.8
27.5°	4330.6	4290.2	4248.6	4199.1	4151.8	4105.7	4055.7	4007.5	3960.4	3934.3	3905.2
25°	4402.3	4363.5	4314.5	4267.8	4222.2	4172.3	4124.2	4078.9	4032.4	3996.5	3971.8
22.5°	4444.6	4427.1	4379.4	4335.1	4283.5	4233.4	4186.6	4141.5	4094.7	4049.7	4029.5
20°	4461.7	4457.0	4444.0	4392.6	4339.5	4289.3	4244.6	4193.5	4147.4	4112.7	4087.1
17.5°	4472.7	4470.6	4464.6	4447.2	4390.5	4344.2	4288.9	4238.1	4203.7	4162.7	4123.3
15°	4484.2	4484.8	4472.3	4452.7	4432.7	4388.9	4325.2	4288.0	4241.8	4202.1	4174.9
12.5°	4497.3	4496.5	4480.9	4461.6	4441.6	4400.9	4371.4	4322.4	4274.5	4242.5	4208.1
10°	4511.0	4506.0	4490.9	4471.3	4441.7	4402.2	4380.5	4343.3	4307.7	4267.7	4234.0
7.5°	4524.9	4516.4	4503.5	4480.2	4442.9	4409.2	4376.9	4342.9	4316.5	4289.2	4253.7
5°	4538.6	4527.7	4518.1	4489.2	4448.4	4415.7	4376.6	4343.3	4310.2	4281.8	4257.4
2.5°	4552.0	4540.0	4534.2	4499.2	4458.1	4423.1	4380.4	4345.2	4305.8	4275.2	4248.5
0°	4565.0	4553.2	4551.1	4511.5	4471.8	4433.0	4388.9	4350.6	4305.9	4272.9	4245.2
-2.5°	4552.0	4540.0	4534.2	4499.2	4458.1	4423.1	4380.4	4345.2	4305.8	4275.2	4248.5
-5°	4538.6	4527.7	4518.1	4489.2	4448.4	4415.7	4376.6	4343.3	4310.2	4281.8	4257.4
-7.5°	4524.9	4516.4	4503.5	4480.2	4442.9	4409.2	4376.9	4342.9	4316.5	4289.2	4253.7
-10°	4511.0	4506.0	4490.9	4471.3	4441.7	4402.2	4380.5	4343.3	4307.7	4267.7	4234.0
-12.5°	4497.3	4496.5	4480.9	4461.6	4441.6	4400.9	4371.4	4322.4	4274.5	4242.5	4208.1
-15°	4484.2	4484.8	4472.3	4452.7	4432.7	4388.9	4325.2	4288.0	4241.8	4202.1	4174.9
-17.5°	4472.7	4470.6	4464.6	4447.2	4390.5	4344.2	4288.9	4238.1	4203.7	4162.7	4123.3
-20°	4461.7	4457.0	4444.0	4392.6	4339.5	4289.3	4244.6	4193.5	4147.4	4112.7	4087.1



REPORT NUMBER: P670573 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL150FSUNVDBZSF-100W-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4444.6	4427.1	4379.4	4335.1	4283.5	4233.4	4186.6	4141.5	4094.7	4049.7	4029.5
-25°	4402.3	4363.5	4314.5	4267.8	4222.2	4172.3	4124.2	4078.9	4032.4	3996.5	3971.8
-27.5°	4330.6	4290.2	4248.6	4199.1	4151.8	4105.7	4055.7	4007.5	3960.4	3934.3	3905.2
-30°	4257.3	4215.2	4172.7	4129.0	4078.8	4029.8	3981.1	3930.5	3887.6	3855.8	3823.8
-32.5°	4175.8	4138.1	4093.7	4048.7	4003.0	3951.5	3900.1	3847.5	3809.5	3773.1	3734.6
-35°	4090.7	4055.1	4012.1	3964.9	3917.0	3867.3	3815.5	3764.1	3722.3	3680.1	3637.1
-37.5°	3994.3	3967.1	3927.0	3878.5	3827.6	3776.1	3722.3	3673.5	3627.5	3578.8	3529.0
-40°	3894.9	3868.5	3834.0	3792.3	3738.4	3681.0	3625.0	3572.7	3520.6	3466.8	3411.4
-42.5°	3792.5	3768.8	3733.8	3692.4	3646.9	3593.1	3529.2	3466.0	3405.8	3345.7	3283.7
-45°	3677.7	3663.0	3636.3	3593.6	3544.2	3492.1	3426.1	3359.8	3289.7	3219.5	3148.7
-47.5°	3555.0	3549.7	3527.4	3494.5	3451.2	3390.9	3310.6	3233.0	3158.0	3082.1	3004.1
-50°	3423.4	3430.6	3415.1	3388.3	3349.7	3282.1	3196.7	3110.7	3023.8	2936.8	2848.6
-52.5°	3281.0	3298.6	3298.7	3282.2	3249.8	3163.2	3069.3	2975.7	2881.9	2787.1	2690.4
-55°	3116.8	3155.5	3175.5	3171.7	3142.2	3039.4	2937.4	2834.6	2731.8	2628.0	2522.3
-57.5°	2938.3	3000.8	3038.4	3052.8	3013.2	2906.8	2797.6	2686.8	2575.4	2462.8	2348.1
-60°	2748.5	2836.5	2892.9	2929.7	2869.5	2758.0	2643.2	2527.4	2409.8	2290.0	2167.5
-62.5°	2547.6	2655.9	2739.2	2802.9	2716.0	2599.7	2480.0	2358.6	2235.1	2109.2	1980.4
-65°	2330.6	2460.7	2572.0	2656.5	2546.9	2427.3	2305.4	2180.9	2053.6	1923.2	1789.5
-67.5°	2021.5	2190.1	2348.8	2447.7	2346.4	2229.5	2109.2	1985.4	1858.0	1727.0	1592.2
-70°	1692.8	1856.9	2015.8	2084.3	2011.7	1928.2	1834.3	1730.8	1618.3	1497.6	1369.4
-72.5°	1357.5	1508.8	1659.5	1701.7	1645.5	1578.0	1500.0	1412.1	1315.3	1210.4	1098.4
-75°	1018.6	1142.0	1269.4	1295.6	1259.7	1212.9	1156.0	1089.7	1014.8	932.4	843.3
-77.5°	697.6	793.9	891.4	904.1	882.0	851.1	812.1	765.6	712.3	653.0	588.7
-80°	466.2	525.6	586.2	584.8	567.1	544.4	517.2	485.7	450.6	412.0	370.6
-82.5°	289.3	322.3	356.5	351.9	340.8	327.0	310.7	292.0	271.5	249.1	225.1
-85°	160.1	174.3	188.7	184.8	179.1	172.3	164.5	155.9	146.6	136.5	125.8
-87.5°	69.5	74.0	78.4	76.9	75.1	72.9	70.5	67.8	64.9	61.8	58.5
-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: P670573 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL150FSUNVDBZSF-100W-4000K

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°	55.0	51.4	47.7	43.8	47.7	51.4	55.0	58.5	61.8	64.9	67.8
85°	114.6	103.0	91.1	78.9	91.1	103.0	114.6	125.8	136.5	146.6	155.9
82.5°	199.9	173.7	146.6	119.1	146.6	173.7	199.9	225.1	249.1	271.5	292.0
80°	326.7	281.0	233.7	185.5	233.7	281.0	326.7	370.6	412.0	450.6	485.7
77.5°	519.8	447.4	372.3	295.2	372.3	447.4	519.8	588.7	653.0	712.3	765.6
75°	748.4	648.9	545.7	439.7	545.7	648.9	748.4	843.3	932.4	1014.8	1089.7
72.5°	980.2	856.8	729.2	598.2	729.2	856.8	980.2	1098.4	1210.4	1315.3	1412.1
70°	1234.6	1093.9	948.2	798.5	948.2	1093.9	1234.6	1369.4	1497.6	1618.3	1730.8
67.5°	1453.7	1311.3	1165.0	1014.8	1165.0	1311.3	1453.7	1592.2	1727.0	1858.0	1985.4
65°	1652.4	1511.7	1367.2	1218.6	1367.2	1511.7	1652.4	1789.5	1923.2	2053.6	2180.9
62.5°	1848.4	1712.7	1572.9	1428.8	1572.9	1712.7	1848.4	1980.4	2109.2	2235.1	2358.6
60°	2041.8	1912.4	1778.5	1639.9	1778.5	1912.4	2041.8	2167.5	2290.0	2409.8	2527.4
57.5°	2230.7	2109.6	1984.1	1853.5	1984.1	2109.6	2230.7	2348.1	2462.8	2575.4	2686.8
55°	2413.9	2301.8	2185.1	2063.0	2185.1	2301.8	2413.9	2522.3	2628.0	2731.8	2834.6
52.5°	2590.7	2487.3	2378.9	2264.8	2378.9	2487.3	2590.7	2690.4	2787.1	2881.9	2975.7
50°	2758.0	2663.9	2565.0	2460.2	2565.0	2663.9	2758.0	2848.6	2936.8	3023.8	3110.7
47.5°	2923.1	2837.8	2747.2	2650.2	2747.2	2837.8	2923.1	3004.1	3082.1	3158.0	3233.0
45°	3075.9	2999.7	2918.6	2831.0	2918.6	2999.7	3075.9	3148.7	3219.5	3289.7	3359.8
42.5°	3218.8	3149.7	3075.3	2994.3	3075.3	3149.7	3218.8	3283.7	3345.7	3405.8	3466.0
40°	3353.3	3291.0	3223.4	3149.0	3223.4	3291.0	3353.3	3411.4	3466.8	3520.6	3572.7
37.5°	3477.0	3421.4	3360.5	3293.0	3360.5	3421.4	3477.0	3529.0	3578.8	3627.5	3673.5
35°	3592.1	3543.7	3490.0	3429.5	3490.0	3543.7	3592.1	3637.1	3680.1	3722.3	3764.1
32.5°	3693.9	3649.7	3600.5	3544.8	3600.5	3649.7	3693.9	3734.6	3773.1	3809.5	3847.5
30°	3790.2	3753.5	3711.8	3662.9	3711.8	3753.5	3790.2	3823.8	3855.8	3887.6	3930.5
27.5°	3876.2	3845.4	3810.4	3769.1	3810.4	3845.4	3876.2	3905.2	3934.3	3960.4	4007.5
25°	3945.2	3915.8	3882.5	3843.7	3882.5	3915.8	3945.2	3971.8	3996.5	4032.4	4078.9
22.5°	4010.7	3989.5	3964.0	3931.6	3964.0	3989.5	4010.7	4029.5	4049.7	4094.7	4141.5
20°	4068.6	4052.8	4036.2	4014.4	4036.2	4052.8	4068.6	4087.1	4112.7	4147.4	4193.5
17.5°	4113.7	4101.4	4083.7	4060.1	4083.7	4101.4	4113.7	4123.3	4162.7	4203.7	4238.1
15°	4152.0	4136.9	4121.3	4102.0	4121.3	4136.9	4152.0	4174.9	4202.1	4241.8	4288.0
12.5°	4179.5	4169.8	4162.0	4149.6	4162.0	4169.8	4179.5	4208.1	4242.5	4274.5	4322.4
10°	4210.6	4186.2	4171.8	4157.4	4171.8	4186.2	4210.6	4234.0	4267.7	4307.7	4343.3
7.5°	4220.9	4198.4	4193.3	4193.0	4193.3	4198.4	4220.9	4253.7	4289.2	4316.5	4342.9
5°	4232.8	4211.7	4204.4	4194.7	4204.4	4211.7	4232.8	4257.4	4281.8	4310.2	4343.3
2.5°	4224.9	4207.5	4198.2	4203.6	4198.2	4207.5	4224.9	4248.5	4275.2	4305.8	4345.2
0°	4210.9	4198.1	4181.3	4186.9	4181.3	4198.1	4210.9	4245.2	4272.9	4305.9	4350.6
-2.5°	4224.9	4207.5	4198.2	4203.6	4198.2	4207.5	4224.9	4248.5	4275.2	4305.8	4345.2
-5°	4232.8	4211.7	4204.4	4194.7	4204.4	4211.7	4232.8	4257.4	4281.8	4310.2	4343.3
-7.5°	4220.9	4198.4	4193.3	4193.0	4193.3	4198.4	4220.9	4253.7	4289.2	4316.5	4342.9
-10°	4210.6	4186.2	4171.8	4157.4	4171.8	4186.2	4210.6	4234.0	4267.7	4307.7	4343.3
-12.5°	4179.5	4169.8	4162.0	4149.6	4162.0	4169.8	4179.5	4208.1	4242.5	4274.5	4322.4
-15°	4152.0	4136.9	4121.3	4102.0	4121.3	4136.9	4152.0	4174.9	4202.1	4241.8	4288.0
-17.5°	4113.7	4101.4	4083.7	4060.1	4083.7	4101.4	4113.7	4123.3	4162.7	4203.7	4238.1
-20°	4068.6	4052.8	4036.2	4014.4	4036.2	4052.8	4068.6	4087.1	4112.7	4147.4	4193.5

Classified

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

Scaled Data Report



REPORT NUMBER: P670573 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLXL150FSUNVDBZSF-100W-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	4010.7	3989.5	3964.0	3931.6	3964.0	3989.5	4010.7	4029.5	4049.7	4094.7	4141.5
-25°	3945.2	3915.8	3882.5	3843.7	3882.5	3915.8	3945.2	3971.8	3996.5	4032.4	4078.9
-27.5°	3876.2	3845.4	3810.4	3769.1	3810.4	3845.4	3876.2	3905.2	3934.3	3960.4	4007.5
-30°	3790.2	3753.5	3711.8	3662.9	3711.8	3753.5	3790.2	3823.8	3855.8	3887.6	3930.5
-32.5°	3693.9	3649.7	3600.5	3544.8	3600.5	3649.7	3693.9	3734.6	3773.1	3809.5	3847.5
-35°	3592.1	3543.7	3490.0	3429.5	3490.0	3543.7	3592.1	3637.1	3680.1	3722.3	3764.1
-37.5°	3477.0	3421.4	3360.5	3293.0	3360.5	3421.4	3477.0	3529.0	3578.8	3627.5	3673.5
-40°	3353.3	3291.0	3223.4	3149.0	3223.4	3291.0	3353.3	3411.4	3466.8	3520.6	3572.7
-42.5°	3218.8	3149.7	3075.3	2994.3	3075.3	3149.7	3218.8	3283.7	3345.7	3405.8	3466.0
-45°	3075.9	2999.7	2918.6	2831.0	2918.6	2999.7	3075.9	3148.7	3219.5	3289.7	3359.8
-47.5°	2923.1	2837.8	2747.2	2650.2	2747.2	2837.8	2923.1	3004.1	3082.1	3158.0	3233.0
-50°	2758.0	2663.9	2565.0	2460.2	2565.0	2663.9	2758.0	2848.6	2936.8	3023.8	3110.7
-52.5°	2590.7	2487.3	2378.9	2264.8	2378.9	2487.3	2590.7	2690.4	2787.1	2881.9	2975.7
-55°	2413.9	2301.8	2185.1	2063.0	2185.1	2301.8	2413.9	2522.3	2628.0	2731.8	2834.6
-57.5°	2230.7	2109.6	1984.1	1853.5	1984.1	2109.6	2230.7	2348.1	2462.8	2575.4	2686.8
-60°	2041.8	1912.4	1778.5	1639.9	1778.5	1912.4	2041.8	2167.5	2290.0	2409.8	2527.4
-62.5°	1848.4	1712.7	1572.9	1428.8	1572.9	1712.7	1848.4	1980.4	2109.2	2235.1	2358.6
-65°	1652.4	1511.7	1367.2	1218.6	1367.2	1511.7	1652.4	1789.5	1923.2	2053.6	2180.9
-67.5°	1453.7	1311.3	1165.0	1014.8	1165.0	1311.3	1453.7	1592.2	1727.0	1858.0	1985.4
-70°	1234.6	1093.9	948.2	798.5	948.2	1093.9	1234.6	1369.4	1497.6	1618.3	1730.8
-72.5°	980.2	856.8	729.2	598.2	729.2	856.8	980.2	1098.4	1210.4	1315.3	1412.1
-75°	748.4	648.9	545.7	439.7	545.7	648.9	748.4	843.3	932.4	1014.8	1089.7
-77.5°	519.8	447.4	372.3	295.2	372.3	447.4	519.8	588.7	653.0	712.3	765.6
-80°	326.7	281.0	233.7	185.5	233.7	281.0	326.7	370.6	412.0	450.6	485.7
-82.5°	199.9	173.7	146.6	119.1	146.6	173.7	199.9	225.1	249.1	271.5	292.0
-85°	114.6	103.0	91.1	78.9	91.1	103.0	114.6	125.8	136.5	146.6	155.9
-87.5°	55.0	51.4	47.7	43.8	47.7	51.4	55.0	58.5	61.8	64.9	67.8
-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: P670573 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL150FSUNVDBZSF-100W-4000K

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°	70.5	72.9	75.1	76.9	78.4	74.0	69.5	65.1	60.6	56.3	51.9
85°	164.5	172.3	179.1	184.8	188.7	174.3	160.1	146.5	133.2	120.7	108.9
82.5°	310.7	327.0	340.8	351.9	356.5	322.3	289.3	257.8	227.8	199.8	174.0
80°	517.2	544.4	567.1	584.8	586.2	525.6	466.2	408.6	352.9	304.2	263.3
77.5°	812.1	851.1	882.0	904.1	891.4	793.9	697.6	608.7	533.4	461.2	392.3
75°	1156.0	1212.9	1259.7	1295.6	1269.4	1142.0	1018.6	898.7	781.6	667.9	558.2
72.5°	1500.0	1578.0	1645.5	1701.7	1659.5	1508.8	1357.5	1207.5	1059.5	914.2	776.2
70°	1834.3	1928.2	2011.7	2084.3	2015.8	1856.9	1692.8	1523.7	1349.6	1178.9	1014.6
67.5°	2109.2	2229.5	2346.4	2447.7	2348.8	2190.1	2021.5	1842.9	1656.3	1464.9	1268.6
65°	2305.4	2427.3	2546.9	2656.5	2572.0	2460.7	2330.6	2161.3	1966.6	1760.4	1544.5
62.5°	2480.0	2599.7	2716.0	2802.9	2739.2	2655.9	2547.6	2410.7	2250.7	2063.8	1837.8
60°	2643.2	2758.0	2869.5	2929.7	2892.9	2836.5	2748.5	2636.0	2497.6	2320.9	2116.6
57.5°	2797.6	2906.8	3013.2	3052.8	3038.4	3000.8	2938.3	2852.4	2728.3	2570.6	2380.9
55°	2937.4	3039.4	3142.2	3171.7	3175.5	3155.5	3116.8	3050.0	2947.2	2816.9	2632.9
52.5°	3069.3	3163.2	3249.8	3282.2	3298.7	3298.6	3281.0	3228.6	3154.5	3035.3	2878.5
50°	3196.7	3282.1	3349.7	3388.3	3415.1	3430.6	3423.4	3394.0	3335.4	3240.0	3105.7
47.5°	3310.6	3390.9	3451.2	3494.5	3527.4	3549.7	3555.0	3545.9	3498.7	3428.5	3306.7
45°	3426.1	3492.1	3544.2	3593.6	3636.3	3663.0	3677.7	3673.4	3651.7	3589.3	3498.8
42.5°	3529.2	3593.1	3646.9	3692.4	3733.8	3768.8	3792.5	3795.7	3780.8	3742.1	3658.2
40°	3625.0	3681.0	3738.4	3792.3	3834.0	3868.5	3894.9	3912.2	3902.0	3872.0	3814.1
37.5°	3722.3	3776.1	3827.6	3878.5	3927.0	3967.1	3994.3	4011.9	4018.4	3993.1	3942.1
35°	3815.5	3867.3	3917.0	3964.9	4012.1	4055.1	4090.7	4110.2	4117.1	4107.4	4060.4
32.5°	3900.1	3951.5	4003.0	4048.7	4093.7	4138.1	4175.8	4203.7	4215.2	4208.2	4118.0
30°	3981.1	4029.8	4078.8	4129.0	4172.7	4215.2	4257.3	4288.3	4305.1	4263.0	4172.6
27.5°	4055.7	4105.7	4151.8	4199.1	4248.6	4290.2	4330.6	4368.8	4359.7	4298.2	4212.4
25°	4124.2	4172.3	4222.2	4267.8	4314.5	4363.5	4402.3	4413.0	4383.8	4330.9	4252.9
22.5°	4186.6	4233.4	4283.5	4335.1	4379.4	4427.1	4444.6	4429.7	4409.7	4359.7	4283.6
20°	4244.6	4289.3	4339.5	4392.6	4444.0	4457.0	4461.7	4447.3	4425.2	4383.7	4312.2
17.5°	4288.9	4344.2	4390.5	4447.2	4464.6	4470.6	4472.7	4466.4	4441.3	4408.6	4340.2
15°	4325.2	4388.9	4432.7	4452.7	4472.3	4484.8	4484.2	4486.6	4457.8	4427.1	4360.9
12.5°	4371.4	4400.9	4441.6	4461.6	4480.9	4496.5	4497.3	4497.5	4475.1	4440.5	4380.1
10°	4380.5	4402.2	4441.7	4471.3	4490.9	4506.0	4511.0	4508.8	4492.4	4453.4	4397.9
7.5°	4376.9	4409.2	4442.9	4480.2	4503.5	4516.4	4524.9	4520.1	4509.2	4465.4	4413.8
5°	4376.6	4415.7	4448.4	4489.2	4518.1	4527.7	4538.6	4531.6	4524.8	4476.2	4427.2
2.5°	4380.4	4423.1	4458.1	4499.2	4534.2	4540.0	4552.0	4543.1	4538.8	4485.4	4437.1
0°	4388.9	4433.0	4471.8	4511.5	4551.1	4553.2	4565.0	4554.4	4550.4	4492.5	4442.8
-2.5°	4380.4	4423.1	4458.1	4499.2	4534.2	4540.0	4552.0	4543.1	4538.8	4485.4	4437.1
-5°	4376.6	4415.7	4448.4	4489.2	4518.1	4527.7	4538.6	4531.6	4524.8	4476.2	4427.2
-7.5°	4376.9	4409.2	4442.9	4480.2	4503.5	4516.4	4524.9	4520.1	4509.2	4465.4	4413.8
-10°	4380.5	4402.2	4441.7	4471.3	4490.9	4506.0	4511.0	4508.8	4492.4	4453.4	4397.9
-12.5°	4371.4	4400.9	4441.6	4461.6	4480.9	4496.5	4497.3	4497.5	4475.1	4440.5	4380.1
-15°	4325.2	4388.9	4432.7	4452.7	4472.3	4484.8	4484.2	4486.6	4457.8	4427.1	4360.9
-17.5°	4288.9	4344.2	4390.5	4447.2	4464.6	4470.6	4472.7	4466.4	4441.3	4408.6	4340.2
-20°	4244.6	4289.3	4339.5	4392.6	4444.0	4457.0	4461.7	4447.3	4425.2	4383.7	4312.2



REPORT NUMBER: P670573 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL150FSUNVDBZSF-100W-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4186.6	4233.4	4283.5	4335.1	4379.4	4427.1	4444.6	4429.7	4409.7	4359.7	4283.6
-25°	4124.2	4172.3	4222.2	4267.8	4314.5	4363.5	4402.3	4413.0	4383.8	4330.9	4252.9
-27.5°	4055.7	4105.7	4151.8	4199.1	4248.6	4290.2	4330.6	4368.8	4359.7	4298.2	4212.4
-30°	3981.1	4029.8	4078.8	4129.0	4172.7	4215.2	4257.3	4288.3	4305.1	4263.0	4172.6
-32.5°	3900.1	3951.5	4003.0	4048.7	4093.7	4138.1	4175.8	4203.7	4215.2	4208.2	4118.0
-35°	3815.5	3867.3	3917.0	3964.9	4012.1	4055.1	4090.7	4110.2	4117.1	4107.4	4060.4
-37.5°	3722.3	3776.1	3827.6	3878.5	3927.0	3967.1	3994.3	4011.9	4018.4	3993.1	3942.1
-40°	3625.0	3681.0	3738.4	3792.3	3834.0	3868.5	3894.9	3912.2	3902.0	3872.0	3814.1
-42.5°	3529.2	3593.1	3646.9	3692.4	3733.8	3768.8	3792.5	3795.7	3780.8	3742.1	3658.2
-45°	3426.1	3492.1	3544.2	3593.6	3636.3	3663.0	3677.7	3673.4	3651.7	3589.3	3498.8
-47.5°	3310.6	3390.9	3451.2	3494.5	3527.4	3549.7	3555.0	3545.9	3498.7	3428.5	3306.7
-50°	3196.7	3282.1	3349.7	3388.3	3415.1	3430.6	3423.4	3394.0	3335.4	3240.0	3105.7
-52.5°	3069.3	3163.2	3249.8	3282.2	3298.7	3298.6	3281.0	3228.6	3154.5	3035.3	2878.5
-55°	2937.4	3039.4	3142.2	3171.7	3175.5	3155.5	3116.8	3050.0	2947.2	2816.9	2632.9
-57.5°	2797.6	2906.8	3013.2	3052.8	3038.4	3000.8	2938.3	2852.4	2728.3	2570.6	2380.9
-60°	2643.2	2758.0	2869.5	2929.7	2892.9	2836.5	2748.5	2636.0	2497.6	2320.9	2116.6
-62.5°	2480.0	2599.7	2716.0	2802.9	2739.2	2655.9	2547.6	2410.7	2250.7	2063.8	1837.8
-65°	2305.4	2427.3	2546.9	2656.5	2572.0	2460.7	2330.6	2161.3	1966.6	1760.4	1544.5
-67.5°	2109.2	2229.5	2346.4	2447.7	2348.8	2190.1	2021.5	1842.9	1656.3	1464.9	1268.6
-70°	1834.3	1928.2	2011.7	2084.3	2015.8	1856.9	1692.8	1523.7	1349.6	1178.9	1014.6
-72.5°	1500.0	1578.0	1645.5	1701.7	1659.5	1508.8	1357.5	1207.5	1059.5	914.2	776.2
-75°	1156.0	1212.9	1259.7	1295.6	1269.4	1142.0	1018.6	898.7	781.6	667.9	558.2
-77.5°	812.1	851.1	882.0	904.1	891.4	793.9	697.6	608.7	533.4	461.2	392.3
-80°	517.2	544.4	567.1	584.8	586.2	525.6	466.2	408.6	352.9	304.2	263.3
-82.5°	310.7	327.0	340.8	351.9	356.5	322.3	289.3	257.8	227.8	199.8	174.0
-85°	164.5	172.3	179.1	184.8	188.7	174.3	160.1	146.5	133.2	120.7	108.9
-87.5°	70.5	72.9	75.1	76.9	78.4	74.0	69.5	65.1	60.6	56.3	51.9
-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: P670573 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL150FSUNVDBZSF-100W-4000K

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°	47.7	43.6	39.5	35.6	31.8	28.2	24.3	20.6	17.2	14.1	11.3
85°	97.8	87.5	78.2	69.8	62.5	56.2	48.4	41.2	34.4	28.1	22.5
82.5°	150.3	131.6	115.0	99.9	86.4	74.7	65.9	57.5	49.4	41.8	33.6
80°	225.5	191.1	160.3	133.4	110.7	92.9	81.8	71.2	61.1	51.5	42.6
77.5°	327.2	266.2	209.7	169.4	136.4	111.6	98.1	84.9	72.6	61.1	50.5
75°	452.9	372.4	300.6	234.7	174.9	129.9	114.4	99.3	84.7	70.6	58.1
72.5°	648.8	527.4	412.6	307.8	235.2	181.1	143.2	113.3	96.9	81.1	65.9
70°	854.8	700.1	561.5	435.2	317.5	232.5	187.9	146.7	109.2	91.2	74.5
67.5°	1068.3	893.3	724.9	563.7	425.2	325.5	238.0	183.6	140.4	101.4	82.7
65°	1329.9	1110.6	891.4	712.4	541.8	421.4	322.3	230.1	170.4	126.4	90.7
62.5°	1599.3	1353.7	1115.8	873.6	676.6	537.0	403.0	300.3	205.3	150.2	106.7
60°	1881.7	1619.9	1345.0	1082.6	842.2	657.7	507.2	367.2	263.0	172.7	125.2
57.5°	2149.5	1887.6	1600.7	1299.9	1037.5	805.6	614.0	453.2	317.7	213.9	142.5
55°	2415.5	2154.3	1856.3	1539.4	1238.8	973.7	734.1	546.7	376.3	257.9	158.7
52.5°	2672.3	2418.4	2120.0	1781.6	1453.7	1140.8	877.2	636.7	456.9	299.1	191.3
50°	2916.0	2676.7	2379.9	2025.1	1661.5	1326.4	1012.2	753.4	534.2	346.2	223.7
47.5°	3147.1	2918.7	2623.8	2253.9	1874.1	1501.8	1162.7	866.5	608.1	411.6	253.7
45°	3346.2	3148.5	2836.3	2464.2	2075.0	1680.5	1311.9	972.0	701.3	473.7	281.2
42.5°	3537.6	3335.0	3020.8	2663.3	2259.9	1853.0	1451.2	1093.5	788.5	532.4	321.5
40°	3698.8	3477.9	3186.9	2827.9	2433.4	2014.0	1595.7	1210.2	868.7	592.7	369.7
37.5°	3829.6	3598.6	3317.1	2984.9	2591.6	2162.8	1731.6	1317.5	948.3	658.1	414.9
35°	3906.1	3703.7	3443.5	3116.0	2728.1	2301.1	1856.4	1421.3	1036.8	717.5	456.9
32.5°	3980.8	3796.5	3540.7	3227.1	2856.3	2428.4	1971.5	1524.7	1117.0	770.8	495.5
30°	4039.9	3864.5	3633.1	3332.9	2968.6	2536.9	2077.1	1617.8	1188.7	818.0	532.5
27.5°	4094.1	3931.8	3716.3	3417.6	3057.4	2635.8	2172.0	1700.6	1251.8	865.2	570.4
25°	4143.1	3984.0	3773.5	3492.5	3139.5	2725.3	2256.0	1772.9	1314.1	915.9	603.3
22.5°	4177.9	4029.8	3828.2	3562.7	3214.5	2804.8	2327.9	1839.1	1371.3	959.3	631.3
20°	4211.9	4073.9	3879.8	3623.1	3274.0	2861.6	2388.7	1895.3	1419.3	995.4	654.3
17.5°	4243.0	4108.0	3915.6	3661.1	3321.2	2910.3	2439.6	1941.1	1457.9	1024.3	672.4
15°	4264.3	4132.0	3945.2	3694.1	3361.5	2950.4	2480.4	1976.7	1487.3	1046.0	685.8
12.5°	4283.6	4153.2	3970.6	3721.6	3394.0	2981.3	2510.6	2001.8	1507.6	1060.8	694.6
10°	4300.4	4170.8	3991.2	3742.8	3418.0	3002.5	2530.1	2016.5	1518.9	1068.8	699.0
7.5°	4314.1	4184.4	4006.1	3756.9	3432.8	3013.4	2538.4	2020.7	1521.2	1070.1	699.0
5°	4324.1	4193.2	4014.5	3763.0	3437.7	3013.4	2535.5	2014.5	1514.9	1064.9	694.9
2.5°	4329.8	4196.6	4015.7	3760.5	3431.9	3002.2	2521.0	1998.1	1500.1	1053.5	686.8
0°	4330.6	4193.8	4008.9	3748.5	3414.6	2979.3	2494.7	1971.4	1477.0	1036.1	675.1
-2.5°	4329.8	4196.6	4015.7	3760.5	3431.9	3002.2	2521.0	1998.1	1500.1	1053.5	686.8
-5°	4324.1	4193.2	4014.5	3763.0	3437.7	3013.4	2535.5	2014.5	1514.9	1064.9	694.9
-7.5°	4314.1	4184.4	4006.1	3756.9	3432.8	3013.4	2538.4	2020.7	1521.2	1070.1	699.0
-10°	4300.4	4170.8	3991.2	3742.8	3418.0	3002.5	2530.1	2016.5	1518.9	1068.8	699.0
-12.5°	4283.6	4153.2	3970.6	3721.6	3394.0	2981.3	2510.6	2001.8	1507.6	1060.8	694.6
-15°	4264.3	4132.0	3945.2	3694.1	3361.5	2950.4	2480.4	1976.7	1487.3	1046.0	685.8
-17.5°	4243.0	4108.0	3915.6	3661.1	3321.2	2910.3	2439.6	1941.1	1457.9	1024.3	672.4
-20°	4211.9	4073.9	3879.8	3623.1	3274.0	2861.6	2388.7	1895.3	1419.3	995.4	654.3



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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°	4177.9	4029.8	3828.2	3562.7	3214.5	2804.8	2327.9	1839.1	1371.3	959.3	631.3
-25°	4143.1	3984.0	3773.5	3492.5	3139.5	2725.3	2256.0	1772.9	1314.1	915.9	603.3
-27.5°	4094.1	3931.8	3716.3	3417.6	3057.4	2635.8	2172.0	1700.6	1251.8	865.2	570.4
-30°	4039.9	3864.5	3633.1	3332.9	2968.6	2536.9	2077.1	1617.8	1188.7	818.0	532.5
-32.5°	3980.8	3796.5	3540.7	3227.1	2856.3	2428.4	1971.5	1524.7	1117.0	770.8	495.5
-35°	3906.1	3703.7	3443.5	3116.0	2728.1	2301.1	1856.4	1421.3	1036.8	717.5	456.9
-37.5°	3829.6	3598.6	3317.1	2984.9	2591.6	2162.8	1731.6	1317.5	948.3	658.1	414.9
-40°	3698.8	3477.9	3186.9	2827.9	2433.4	2014.0	1595.7	1210.2	868.7	592.7	369.7
-42.5°	3537.6	3335.0	3020.8	2663.3	2259.9	1853.0	1451.2	1093.5	788.5	532.4	321.5
-45°	3346.2	3148.5	2836.3	2464.2	2075.0	1680.5	1311.9	972.0	701.3	473.7	281.2
-47.5°	3147.1	2918.7	2623.8	2253.9	1874.1	1501.8	1162.7	866.5	608.1	411.6	253.7
-50°	2916.0	2676.7	2379.9	2025.1	1661.5	1326.4	1012.2	753.4	534.2	346.2	223.7
-52.5°	2672.3	2418.4	2120.0	1781.6	1453.7	1140.8	877.2	636.7	456.9	299.1	191.3
-55°	2415.5	2154.3	1856.3	1539.4	1238.8	973.7	734.1	546.7	376.3	257.9	158.7
-57.5°	2149.5	1887.6	1600.7	1299.9	1037.5	805.6	614.0	453.2	317.7	213.9	142.5
-60°	1881.7	1619.9	1345.0	1082.6	842.2	657.7	507.2	367.2	263.0	172.7	125.2
-62.5°	1599.3	1353.7	1115.8	873.6	676.6	537.0	403.0	300.3	205.3	150.2	106.7
-65°	1329.9	1110.6	891.4	712.4	541.8	421.4	322.3	230.1	170.4	126.4	90.7
-67.5°	1068.3	893.3	724.9	563.7	425.2	325.5	238.0	183.6	140.4	101.4	82.7
-70°	854.8	700.1	561.5	435.2	317.5	232.5	187.9	146.7	109.2	91.2	74.5
-72.5°	648.8	527.4	412.6	307.8	235.2	181.1	143.2	113.3	96.9	81.1	65.9
-75°	452.9	372.4	300.6	234.7	174.9	129.9	114.4	99.3	84.7	70.6	58.1
-77.5°	327.2	266.2	209.7	169.4	136.4	111.6	98.1	84.9	72.6	61.1	50.5
-80°	225.5	191.1	160.3	133.4	110.7	92.9	81.8	71.2	61.1	51.5	42.6
-82.5°	150.3	131.6	115.0	99.9	86.4	74.7	65.9	57.5	49.4	41.8	33.6
-85°	97.8	87.5	78.2	69.8	62.5	56.2	48.4	41.2	34.4	28.1	22.5
-87.5°	47.7	43.6	39.5	35.6	31.8	28.2	24.3	20.6	17.2	14.1	11.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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REPORT NUMBER: P670573 (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°	8.7	6.5	4.5	2.9	1.6	0.6	0.0
85°	17.4	12.9	9.1	5.8	3.3	1.3	0.0
82.5°	26.0	19.3	13.5	8.7	4.9	1.9	0.0
80°	34.2	25.6	18.0	11.6	6.4	2.6	0.0
77.5°	40.5	31.3	22.3	14.3	8.0	3.2	0.0
75°	46.6	36.0	26.3	17.1	9.5	3.8	0.0
72.5°	52.6	40.6	29.7	19.7	11.0	4.4	0.0
70°	58.4	45.0	33.0	22.2	12.5	5.0	0.0
67.5°	65.3	49.3	36.2	24.4	13.9	5.6	0.0
65°	71.8	54.0	39.2	26.5	15.2	6.1	0.0
62.5°	78.1	59.0	42.1	28.5	16.5	6.7	0.0
60°	84.2	63.9	44.8	30.3	17.7	7.2	0.0
57.5°	97.2	68.5	48.3	32.1	18.8	7.7	0.0
55°	110.3	72.8	51.7	33.8	19.8	8.2	0.0
52.5°	122.5	77.8	54.9	35.4	20.8	8.6	0.0
50°	133.7	86.8	57.9	36.8	21.7	9.0	0.0
47.5°	146.0	95.0	60.6	38.3	22.6	9.4	0.0
45°	169.2	102.4	63.2	40.2	23.3	9.7	0.0
42.5°	190.5	109.1	65.5	41.9	24.0	10.1	0.0
40°	209.7	115.0	69.0	43.5	24.7	10.4	0.0
37.5°	226.9	120.1	73.3	45.0	25.2	10.6	0.0
35°	242.0	130.2	77.0	46.3	25.7	10.9	0.0
32.5°	261.0	141.9	80.3	47.4	26.1	11.1	0.0
30°	291.4	152.1	83.0	48.4	26.5	11.3	0.0
27.5°	318.9	160.7	85.2	49.2	26.7	11.4	0.0
25°	343.4	167.9	86.8	49.8	26.9	11.5	0.0
22.5°	365.0	173.6	88.0	50.3	27.0	11.6	0.0
20°	383.5	177.9	88.7	50.6	27.0	11.7	0.0
17.5°	399.0	180.7	88.9	50.8	27.0	11.7	0.0
15°	411.4	182.2	88.7	50.8	26.9	11.7	0.0
12.5°	420.7	182.4	88.0	50.6	26.7	11.6	0.0
10°	427.0	181.4	86.9	50.3	26.5	11.6	0.0
7.5°	430.2	179.2	85.5	49.8	26.2	11.5	0.0
5°	430.3	176.0	83.7	49.2	25.8	11.4	0.0
2.5°	427.4	171.7	81.7	48.5	25.4	11.3	0.0
0°	421.4	166.5	79.3	47.6	24.9	11.1	0.0
-2.5°	427.4	171.7	81.7	48.5	25.4	11.3	0.0
-5°	430.3	176.0	83.7	49.2	25.8	11.4	0.0
-7.5°	430.2	179.2	85.5	49.8	26.2	11.5	0.0
-10°	427.0	181.4	86.9	50.3	26.5	11.6	0.0
-12.5°	420.7	182.4	88.0	50.6	26.7	11.6	0.0
-15°	411.4	182.2	88.7	50.8	26.9	11.7	0.0
-17.5°	399.0	180.7	88.9	50.8	27.0	11.7	0.0
-20°	383.5	177.9	88.7	50.6	27.0	11.7	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	365.0	173.6	88.0	50.3	27.0	11.6	0.0
-25°	343.4	167.9	86.8	49.8	26.9	11.5	0.0
-27.5°	318.9	160.7	85.2	49.2	26.7	11.4	0.0
-30°	291.4	152.1	83.0	48.4	26.5	11.3	0.0
-32.5°	261.0	141.9	80.3	47.4	26.1	11.1	0.0
-35°	242.0	130.2	77.0	46.3	25.7	10.9	0.0
-37.5°	226.9	120.1	73.3	45.0	25.2	10.6	0.0
-40°	209.7	115.0	69.0	43.5	24.7	10.4	0.0
-42.5°	190.5	109.1	65.5	41.9	24.0	10.1	0.0
-45°	169.2	102.4	63.2	40.2	23.3	9.7	0.0
-47.5°	146.0	95.0	60.6	38.3	22.6	9.4	0.0
-50°	133.7	86.8	57.9	36.8	21.7	9.0	0.0
-52.5°	122.5	77.8	54.9	35.4	20.8	8.6	0.0
-55°	110.3	72.8	51.7	33.8	19.8	8.2	0.0
-57.5°	97.2	68.5	48.3	32.1	18.8	7.7	0.0
-60°	84.2	63.9	44.8	30.3	17.7	7.2	0.0
-62.5°	78.1	59.0	42.1	28.5	16.5	6.7	0.0
-65°	71.8	54.0	39.2	26.5	15.2	6.1	0.0
-67.5°	65.3	49.3	36.2	24.4	13.9	5.6	0.0
-70°	58.4	45.0	33.0	22.2	12.5	5.0	0.0
-72.5°	52.6	40.6	29.7	19.7	11.0	4.4	0.0
-75°	46.6	36.0	26.3	17.1	9.5	3.8	0.0
-77.5°	40.5	31.3	22.3	14.3	8.0	3.2	0.0
-80°	34.2	25.6	18.0	11.6	6.4	2.6	0.0
-82.5°	26.0	19.3	13.5	8.7	4.9	1.9	0.0
-85°	17.4	12.9	9.1	5.8	3.3	1.3	0.0
-87.5°	8.7	6.5	4.5	2.9	1.6	0.6	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)