

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: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLXL200FSUNVDBZSF-150W-3000K

Issue Date: 4/3/2023

Test Information

Test Method: LM-79-2019
Report Number: P670575 (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: GFLXL200FSUNVDBZSF-150W-3000K
Description: SLIM LED FLOODLIGHT
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19901.8 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 0.66' x H: 0.26')

NEMA Type: 7H x 7V
Max Intensity: 5785.7 candela
Max Intensity Angle: -35°H x 0°V

Beam Angle (50%): 127°H x 130.8°V
Beam Lumens: 17274.2 lumens
Beam Efficiency: 86.8%

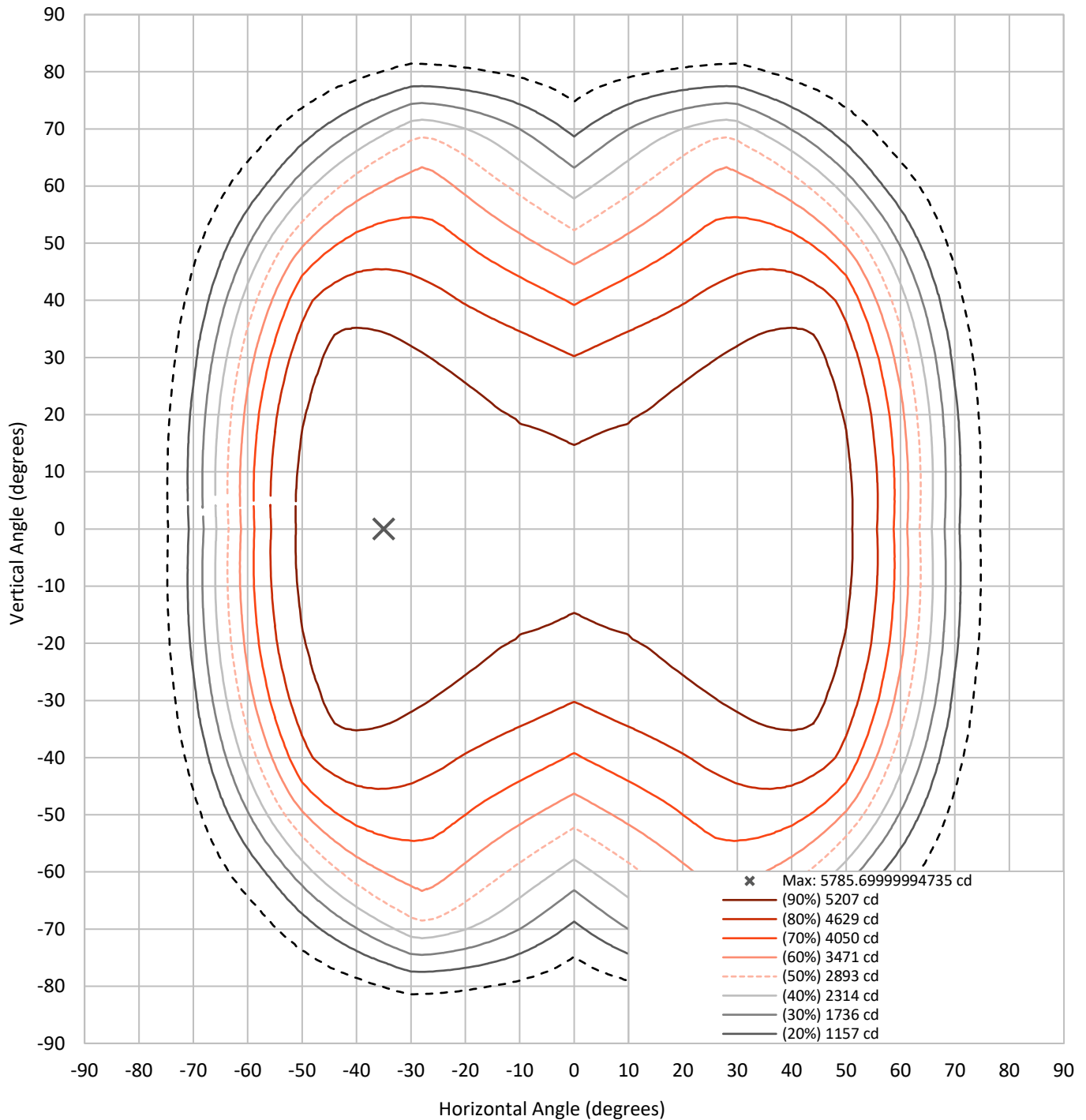
Field Angle (10%): 149.3°H x 160.3°V
Field Lumens: 19659.5 lumens
Field Efficiency: 98.8%

Input Watts (W): 149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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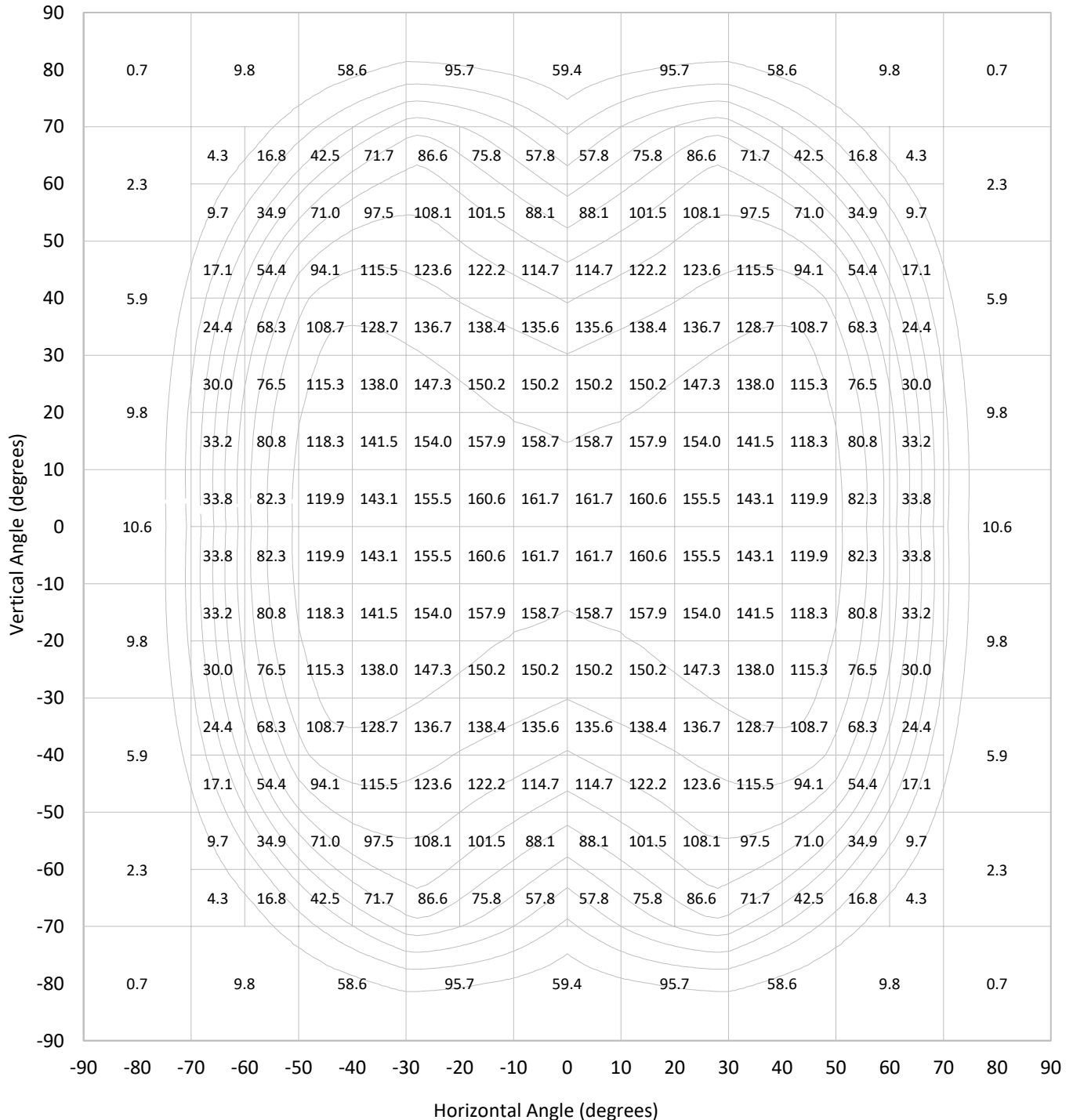
Iso-Candela Plot





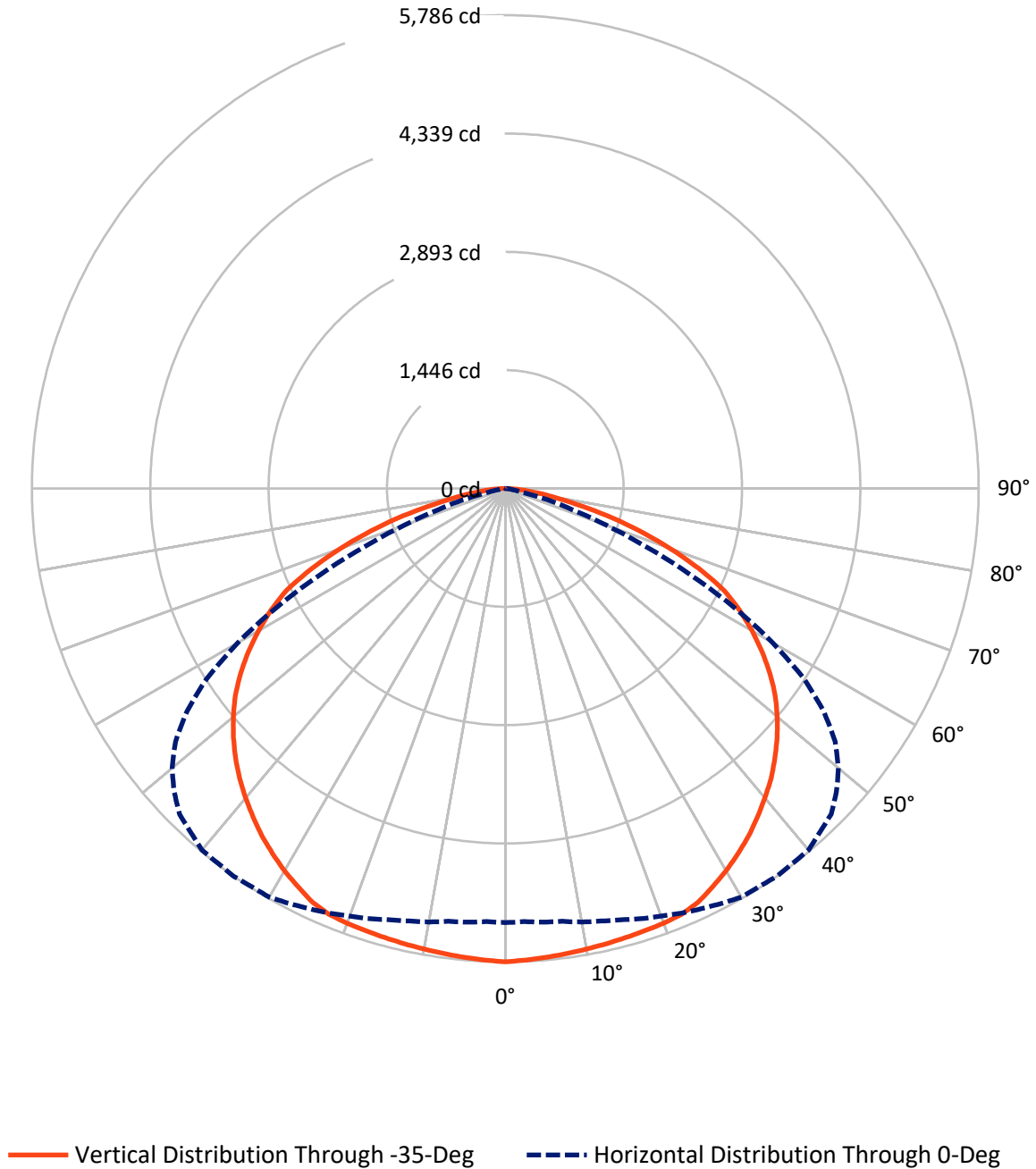
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Lumen Table



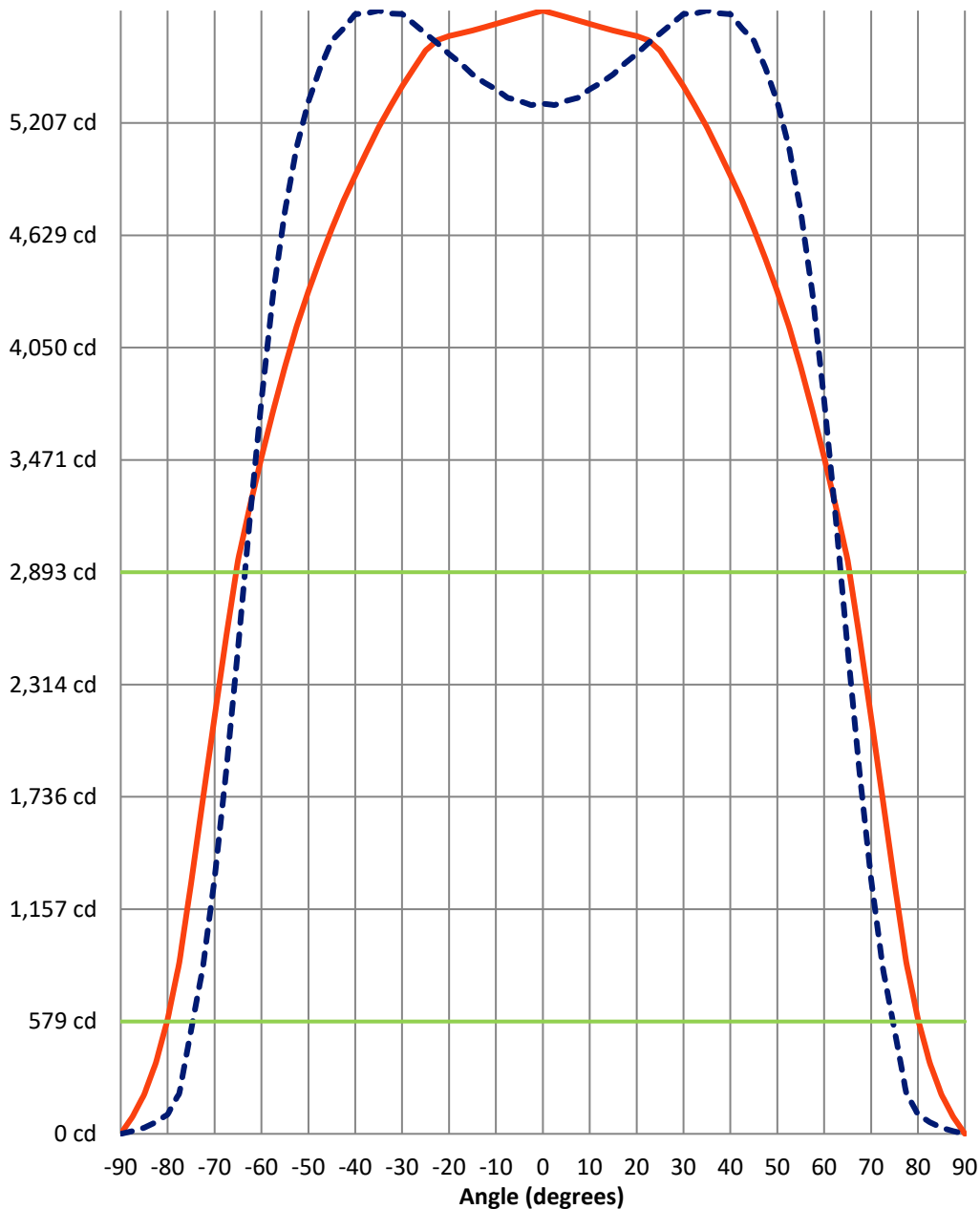
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 127°
 V Angle: 130.8°
 Lumens: 17274.2
 Efficiency: 86.8%

Field:
 H Angle: 149.3°
 V Angle: 160.3°
 Lumens: 19659.5
 Efficiency: 98.8%

Spill:
 Lumens: 242.3
 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	0.8	2.1	3.7	5.8	8.2	11.1	14.3	17.9	21.9	26.1
85°	0.0	1.6	4.1	7.4	11.5	16.4	22.1	28.5	35.7	43.6	52.1
82.5°	0.0	2.5	6.2	11.0	17.2	24.5	33.0	42.6	53.0	62.7	72.8
80°	0.0	3.3	8.2	14.6	22.7	32.4	43.4	54.0	65.4	77.5	90.2
77.5°	0.0	4.1	10.1	18.2	28.2	39.7	51.3	64.0	77.5	91.9	107.6
75°	0.0	4.8	12.1	21.6	33.4	45.7	59.1	73.7	89.5	107.3	125.8
72.5°	0.0	5.6	14.0	25.0	37.7	51.5	66.6	83.5	102.7	122.8	143.6
70°	0.0	6.4	15.8	28.1	41.8	57.1	74.1	94.4	115.6	138.4	185.9
67.5°	0.0	7.1	17.6	30.9	45.8	62.5	82.7	104.8	128.5	178.0	232.7
65°	0.0	7.8	19.3	33.5	49.7	68.4	91.1	114.9	160.2	215.9	291.6
62.5°	0.0	8.5	20.9	36.1	53.3	74.8	99.1	135.2	190.3	260.2	380.6
60°	0.0	9.1	22.4	38.5	56.8	81.0	106.7	158.6	218.8	333.3	465.4
57.5°	0.0	9.7	23.8	40.8	61.2	86.8	123.2	180.6	271.2	402.6	574.4
55°	0.0	10.3	25.1	42.9	65.5	92.3	139.8	201.1	326.9	477.0	692.8
52.5°	0.0	10.9	26.4	44.9	69.5	98.6	155.2	242.4	379.0	579.1	806.9
50°	0.0	11.4	27.5	46.7	73.3	110.0	169.4	283.5	438.8	677.1	954.8
47.5°	0.0	11.9	28.6	48.6	76.8	120.4	185.0	321.5	521.6	770.6	1098.2
45°	0.0	12.4	29.6	51.0	80.1	129.8	214.4	356.4	600.3	888.9	1231.9
42.5°	0.0	12.8	30.5	53.2	83.0	138.3	241.4	407.4	674.8	999.3	1386.0
40°	0.0	13.2	31.3	55.2	87.4	145.7	265.8	468.6	751.3	1100.9	1533.8
37.5°	0.0	13.5	32.0	57.1	92.9	152.2	287.6	525.9	834.1	1201.9	1669.8
35°	0.0	13.8	32.6	58.7	97.6	165.0	306.7	579.1	909.4	1314.1	1801.4
32.5°	0.0	14.1	33.1	60.1	101.7	179.8	330.9	628.1	976.9	1415.7	1932.4
30°	0.0	14.3	33.5	61.3	105.2	192.7	369.3	675.0	1036.6	1506.5	2050.5
27.5°	0.0	14.5	33.9	62.3	107.9	203.7	404.2	723.0	1096.6	1586.6	2155.3
25°	0.0	14.6	34.1	63.1	110.0	212.8	435.2	764.7	1160.8	1665.5	2247.0
22.5°	0.0	14.7	34.2	63.7	111.5	220.0	462.6	800.1	1215.7	1738.0	2330.9
20°	0.0	14.8	34.3	64.1	112.4	225.4	486.0	829.3	1261.5	1798.7	2402.0
17.5°	0.0	14.8	34.2	64.3	112.6	229.0	505.6	852.3	1298.1	1847.7	2460.2
15°	0.0	14.8	34.1	64.3	112.3	230.9	521.4	869.3	1325.7	1885.0	2505.2
12.5°	0.0	14.8	33.9	64.1	111.5	231.2	533.2	880.4	1344.5	1910.7	2537.0
10°	0.0	14.7	33.6	63.7	110.1	229.9	541.2	885.9	1354.6	1925.0	2555.6
7.5°	0.0	14.6	33.2	63.1	108.3	227.1	545.2	885.9	1356.2	1928.0	2561.0
5°	0.0	14.5	32.7	62.4	106.1	223.0	545.3	880.7	1349.7	1919.9	2553.2
2.5°	0.0	14.3	32.2	61.4	103.5	217.6	541.6	870.5	1335.2	1901.1	2532.4
0°	0.0	14.1	31.6	60.3	100.5	211.0	534.1	855.6	1313.1	1871.9	2498.6
-2.5°	0.0	14.3	32.2	61.4	103.5	217.6	541.6	870.5	1335.2	1901.1	2532.4
-5°	0.0	14.5	32.7	62.4	106.1	223.0	545.3	880.7	1349.7	1919.9	2553.2
-7.5°	0.0	14.6	33.2	63.1	108.3	227.1	545.2	885.9	1356.2	1928.0	2561.0
-10°	0.0	14.7	33.6	63.7	110.1	229.9	541.2	885.9	1354.6	1925.0	2555.6
-12.5°	0.0	14.8	33.9	64.1	111.5	231.2	533.2	880.4	1344.5	1910.7	2537.0
-15°	0.0	14.8	34.1	64.3	112.3	230.9	521.4	869.3	1325.7	1885.0	2505.2
-17.5°	0.0	14.8	34.2	64.3	112.6	229.0	505.6	852.3	1298.1	1847.7	2460.2
-20°	0.0	14.8	34.3	64.1	112.4	225.4	486.0	829.3	1261.5	1798.7	2402.0

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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	14.7	34.2	63.7	111.5	220.0	462.6	800.1	1215.7	1738.0	2330.9
-25°	0.0	14.6	34.1	63.1	110.0	212.8	435.2	764.7	1160.8	1665.5	2247.0
-27.5°	0.0	14.5	33.9	62.3	107.9	203.7	404.2	723.0	1096.6	1586.6	2155.3
-30°	0.0	14.3	33.5	61.3	105.2	192.7	369.3	675.0	1036.6	1506.5	2050.5
-32.5°	0.0	14.1	33.1	60.1	101.7	179.8	330.9	628.1	976.9	1415.7	1932.4
-35°	0.0	13.8	32.6	58.7	97.6	165.0	306.7	579.1	909.4	1314.1	1801.4
-37.5°	0.0	13.5	32.0	57.1	92.9	152.2	287.6	525.9	834.1	1201.9	1669.8
-40°	0.0	13.2	31.3	55.2	87.4	145.7	265.8	468.6	751.3	1100.9	1533.8
-42.5°	0.0	12.8	30.5	53.2	83.0	138.3	241.4	407.4	674.8	999.3	1386.0
-45°	0.0	12.4	29.6	51.0	80.1	129.8	214.4	356.4	600.3	888.9	1231.9
-47.5°	0.0	11.9	28.6	48.6	76.8	120.4	185.0	321.5	521.6	770.6	1098.2
-50°	0.0	11.4	27.5	46.7	73.3	110.0	169.4	283.5	438.8	677.1	954.8
-52.5°	0.0	10.9	26.4	44.9	69.5	98.6	155.2	242.4	379.0	579.1	806.9
-55°	0.0	10.3	25.1	42.9	65.5	92.3	139.8	201.1	326.9	477.0	692.8
-57.5°	0.0	9.7	23.8	40.8	61.2	86.8	123.2	180.6	271.2	402.6	574.4
-60°	0.0	9.1	22.4	38.5	56.8	81.0	106.7	158.6	218.8	333.3	465.4
-62.5°	0.0	8.5	20.9	36.1	53.3	74.8	99.1	135.2	190.3	260.2	380.6
-65°	0.0	7.8	19.3	33.5	49.7	68.4	91.1	114.9	160.2	215.9	291.6
-67.5°	0.0	7.1	17.6	30.9	45.8	62.5	82.7	104.8	128.5	178.0	232.7
-70°	0.0	6.4	15.8	28.1	41.8	57.1	74.1	94.4	115.6	138.4	185.9
-72.5°	0.0	5.6	14.0	25.0	37.7	51.5	66.6	83.5	102.7	122.8	143.6
-75°	0.0	4.8	12.1	21.6	33.4	45.7	59.1	73.7	89.5	107.3	125.8
-77.5°	0.0	4.1	10.1	18.2	28.2	39.7	51.3	64.0	77.5	91.9	107.6
-80°	0.0	3.3	8.2	14.6	22.7	32.4	43.4	54.0	65.4	77.5	90.2
-82.5°	0.0	2.5	6.2	11.0	17.2	24.5	33.0	42.6	53.0	62.7	72.8
-85°	0.0	1.6	4.1	7.4	11.5	16.4	22.1	28.5	35.7	43.6	52.1
-87.5°	0.0	0.8	2.1	3.7	5.8	8.2	11.1	14.3	17.9	21.9	26.1
-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°	30.8	35.7	40.3	45.1	50.1	55.2	60.5	65.9	71.3	76.9	82.5
85°	61.4	71.3	79.2	88.5	99.1	110.9	123.9	138.0	153.0	168.9	185.6
82.5°	83.5	94.7	109.5	126.6	145.8	166.7	190.6	220.5	253.2	288.8	326.6
80°	103.7	117.7	140.2	169.1	203.2	242.2	285.8	333.7	385.5	447.2	517.8
77.5°	124.3	141.4	172.9	214.7	265.8	337.4	414.7	497.2	584.5	676.1	771.5
75°	145.0	164.7	221.7	297.5	381.0	471.9	574.0	707.4	846.5	990.6	1139.0
72.5°	181.5	229.5	298.1	390.0	522.9	668.5	822.3	983.7	1158.6	1342.8	1530.4
70°	238.1	294.7	402.4	551.6	711.7	887.3	1083.3	1285.8	1494.1	1710.6	1931.1
67.5°	301.7	412.5	539.0	714.5	918.8	1132.2	1353.9	1607.8	1856.6	2099.2	2335.6
65°	408.5	534.0	686.8	902.8	1129.8	1407.6	1685.6	1957.5	2231.2	2492.4	2739.3
62.5°	510.8	680.6	857.6	1107.2	1414.2	1715.8	2027.0	2329.2	2615.7	2852.5	3055.3
60°	642.8	833.6	1067.4	1372.1	1704.8	2053.1	2384.8	2682.6	2941.5	3165.5	3340.8
57.5°	778.2	1021.0	1315.0	1647.5	2028.8	2392.3	2724.3	3017.5	3258.0	3457.8	3615.1
55°	930.4	1234.1	1570.1	1951.0	2352.7	2730.4	3061.5	3337.0	3570.1	3735.2	3865.5
52.5°	1111.8	1445.8	1842.4	2258.0	2686.9	3065.0	3386.9	3648.2	3846.9	3998.0	4091.9
50°	1282.9	1681.1	2105.8	2566.6	3016.3	3392.5	3695.7	3936.2	4106.3	4227.3	4301.6
47.5°	1473.7	1903.4	2375.2	2856.7	3325.4	3699.2	3988.6	4190.9	4345.3	4434.2	4494.1
45°	1662.8	2129.9	2629.9	3123.1	3594.7	3990.3	4240.9	4434.4	4549.0	4628.1	4655.8
42.5°	1839.3	2348.6	2864.2	3375.6	3828.5	4226.7	4483.5	4636.5	4742.7	4791.8	4810.7
40°	2022.5	2552.6	3084.1	3584.1	4039.0	4408.0	4687.8	4833.9	4907.3	4945.4	4958.4
37.5°	2194.7	2741.2	3284.7	3783.2	4204.1	4560.9	4853.6	4996.2	5060.8	5092.9	5084.7
35°	2352.8	2916.5	3457.7	3949.3	4364.3	4694.0	4950.6	5146.1	5205.7	5218.1	5209.2
32.5°	2498.7	3077.8	3620.1	4090.0	4487.5	4811.7	5045.3	5219.3	5333.5	5342.4	5327.8
30°	2632.5	3215.3	3762.5	4224.1	4604.7	4897.9	5120.1	5288.4	5402.9	5456.3	5435.1
27.5°	2752.8	3340.6	3875.0	4331.5	4710.0	4983.2	5188.9	5338.9	5447.5	5525.5	5537.1
25°	2859.3	3454.1	3979.1	4426.4	4782.5	5049.4	5250.9	5390.1	5489.0	5556.0	5593.1
22.5°	2950.3	3554.8	4074.1	4515.3	4851.9	5107.4	5295.1	5429.0	5525.4	5588.9	5614.2
20°	3027.4	3626.8	4149.4	4592.0	4917.4	5163.2	5338.2	5465.3	5555.8	5608.5	5636.5
17.5°	3091.9	3688.6	4209.3	4640.1	4962.6	5206.6	5377.6	5500.7	5587.4	5628.9	5660.7
15°	3143.6	3739.4	4260.3	4681.9	5000.2	5236.9	5404.6	5527.0	5610.9	5649.8	5686.3
12.5°	3181.9	3778.6	4301.6	4716.8	5032.4	5263.7	5429.1	5551.3	5627.9	5671.7	5700.2
10°	3206.6	3805.3	4332.0	4743.7	5058.5	5286.1	5450.3	5573.9	5644.2	5693.6	5714.4
7.5°	3217.2	3819.1	4350.8	4761.5	5077.3	5303.3	5467.7	5594.1	5659.4	5714.9	5728.9
5°	3213.4	3819.2	4356.9	4769.2	5088.0	5314.5	5480.4	5611.0	5673.1	5734.8	5743.4
2.5°	3195.0	3805.0	4349.5	4766.0	5089.5	5318.8	5487.5	5623.6	5684.7	5752.5	5757.9
0°	3161.7	3775.9	4327.6	4750.8	5080.9	5315.2	5488.6	5630.8	5693.8	5767.2	5772.2
-2.5°	3195.0	3805.0	4349.5	4766.0	5089.5	5318.8	5487.5	5623.6	5684.7	5752.5	5757.9
-5°	3213.4	3819.2	4356.9	4769.2	5088.0	5314.5	5480.4	5611.0	5673.1	5734.8	5743.4
-7.5°	3217.2	3819.1	4350.8	4761.5	5077.3	5303.3	5467.7	5594.1	5659.4	5714.9	5728.9
-10°	3206.6	3805.3	4332.0	4743.7	5058.5	5286.1	5450.3	5573.9	5644.2	5693.6	5714.4
-12.5°	3181.9	3778.6	4301.6	4716.8	5032.4	5263.7	5429.1	5551.3	5627.9	5671.7	5700.2
-15°	3143.6	3739.4	4260.3	4681.9	5000.2	5236.9	5404.6	5527.0	5610.9	5649.8	5686.3
-17.5°	3091.9	3688.6	4209.3	4640.1	4962.6	5206.6	5377.6	5500.7	5587.4	5628.9	5660.7
-20°	3027.4	3626.8	4149.4	4592.0	4917.4	5163.2	5338.2	5465.3	5555.8	5608.5	5636.5

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CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-3000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2950.3	3554.8	4074.1	4515.3	4851.9	5107.4	5295.1	5429.0	5525.4	5588.9	5614.2
-25°	2859.3	3454.1	3979.1	4426.4	4782.5	5049.4	5250.9	5390.1	5489.0	5556.0	5593.1
-27.5°	2752.8	3340.6	3875.0	4331.5	4710.0	4983.2	5188.9	5338.9	5447.5	5525.5	5537.1
-30°	2632.5	3215.3	3762.5	4224.1	4604.7	4897.9	5120.1	5288.4	5402.9	5456.3	5435.1
-32.5°	2498.7	3077.8	3620.1	4090.0	4487.5	4811.7	5045.3	5219.3	5333.5	5342.4	5327.8
-35°	2352.8	2916.5	3457.7	3949.3	4364.3	4694.0	4950.6	5146.1	5205.7	5218.1	5209.2
-37.5°	2194.7	2741.2	3284.7	3783.2	4204.1	4560.9	4853.6	4996.2	5060.8	5092.9	5084.7
-40°	2022.5	2552.6	3084.1	3584.1	4039.0	4408.0	4687.8	4833.9	4907.3	4945.4	4958.4
-42.5°	1839.3	2348.6	2864.2	3375.6	3828.5	4226.7	4483.5	4636.5	4742.7	4791.8	4810.7
-45°	1662.8	2129.9	2629.9	3123.1	3594.7	3990.3	4240.9	4434.4	4549.0	4628.1	4655.8
-47.5°	1473.7	1903.4	2375.2	2856.7	3325.4	3699.2	3988.6	4190.9	4345.3	4434.2	4494.1
-50°	1282.9	1681.1	2105.8	2566.6	3016.3	3392.5	3695.7	3936.2	4106.3	4227.3	4301.6
-52.5°	1111.8	1445.8	1842.4	2258.0	2686.9	3065.0	3386.9	3648.2	3846.9	3998.0	4091.9
-55°	930.4	1234.1	1570.1	1951.0	2352.7	2730.4	3061.5	3337.0	3570.1	3735.2	3865.5
-57.5°	778.2	1021.0	1315.0	1647.5	2028.8	2392.3	2724.3	3017.5	3258.0	3457.8	3615.1
-60°	642.8	833.6	1067.4	1372.1	1704.8	2053.1	2384.8	2682.6	2941.5	3165.5	3340.8
-62.5°	510.8	680.6	857.6	1107.2	1414.2	1715.8	2027.0	2329.2	2615.7	2852.5	3055.3
-65°	408.5	534.0	686.8	902.8	1129.8	1407.6	1685.6	1957.5	2231.2	2492.4	2739.3
-67.5°	301.7	412.5	539.0	714.5	918.8	1132.2	1353.9	1607.8	1856.6	2099.2	2335.6
-70°	238.1	294.7	402.4	551.6	711.7	887.3	1083.3	1285.8	1494.1	1710.6	1931.1
-72.5°	181.5	229.5	298.1	390.0	522.9	668.5	822.3	983.7	1158.6	1342.8	1530.4
-75°	145.0	164.7	221.7	297.5	381.0	471.9	574.0	707.4	846.5	990.6	1139.0
-77.5°	124.3	141.4	172.9	214.7	265.8	337.4	414.7	497.2	584.5	676.1	771.5
-80°	103.7	117.7	140.2	169.1	203.2	242.2	285.8	333.7	385.5	447.2	517.8
-82.5°	83.5	94.7	109.5	126.6	145.8	166.7	190.6	220.5	253.2	288.8	326.6
-85°	61.4	71.3	79.2	88.5	99.1	110.9	123.9	138.0	153.0	168.9	185.6
-87.5°	30.8	35.7	40.3	45.1	50.1	55.2	60.5	65.9	71.3	76.9	82.5
-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: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-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°	88.1	93.7	99.4	97.5	95.2	92.4	89.4	86.0	82.3	78.4	74.2
85°	203.0	220.8	239.2	234.2	227.0	218.3	208.6	197.6	185.8	173.0	159.5
82.5°	366.7	408.5	451.9	446.0	432.0	414.4	393.7	370.1	344.1	315.6	285.3
80°	590.9	666.2	743.1	741.1	718.8	690.0	655.5	615.7	571.0	522.2	469.7
77.5°	884.1	1006.2	1129.8	1145.8	1117.9	1078.7	1029.2	970.3	902.8	827.7	746.1
75°	1290.9	1447.3	1608.8	1642.0	1596.6	1537.3	1465.1	1381.1	1286.2	1181.7	1068.8
72.5°	1720.5	1912.3	2103.3	2156.7	2085.6	2000.0	1901.1	1789.7	1667.0	1534.1	1392.2
70°	2145.4	2353.4	2554.8	2641.7	2549.6	2443.8	2324.8	2193.7	2051.1	1898.1	1735.6
67.5°	2562.0	2775.7	2976.8	3102.2	2973.8	2825.6	2673.2	2516.3	2354.9	2188.8	2018.0
65°	2953.9	3118.7	3259.8	3366.8	3227.8	3076.4	2921.9	2764.0	2602.7	2437.4	2268.0
62.5°	3228.8	3366.0	3471.6	3552.4	3442.2	3294.9	3143.2	2989.3	2832.8	2673.2	2510.0
60°	3483.5	3594.9	3666.5	3713.0	3636.8	3495.4	3350.0	3203.2	3054.1	2902.3	2747.1
57.5°	3724.1	3803.2	3850.9	3869.1	3819.0	3684.1	3545.7	3405.2	3264.1	3121.3	2976.0
55°	3950.2	3999.2	4024.7	4019.8	3982.4	3852.1	3722.9	3592.6	3462.3	3330.7	3196.8
52.5°	4158.4	4180.7	4180.8	4159.9	4118.7	4009.0	3890.1	3771.5	3652.6	3532.4	3409.7
50°	4338.9	4347.9	4328.2	4294.3	4245.4	4159.7	4051.5	3942.6	3832.4	3722.1	3610.3
47.5°	4505.7	4498.9	4470.6	4428.8	4374.0	4297.6	4195.8	4097.6	4002.5	3906.2	3807.4
45°	4661.1	4642.5	4608.6	4554.5	4491.9	4425.9	4342.3	4258.3	4169.4	4080.4	3990.7
42.5°	4806.7	4776.6	4732.2	4679.8	4622.1	4553.9	4473.0	4392.8	4316.5	4240.3	4161.8
40°	4936.4	4902.9	4859.2	4806.4	4738.0	4665.2	4594.3	4528.1	4462.0	4393.8	4323.7
37.5°	5062.4	5027.9	4977.1	4915.6	4851.1	4785.8	4717.7	4655.8	4597.5	4535.6	4472.6
35°	5184.5	5139.4	5084.9	5025.1	4964.4	4901.5	4835.7	4770.6	4717.6	4664.2	4609.7
32.5°	5292.4	5244.6	5188.4	5131.3	5073.4	5008.2	4943.0	4876.3	4828.2	4782.1	4733.2
30°	5395.8	5342.4	5288.5	5233.1	5169.4	5107.4	5045.6	4981.5	4927.2	4886.9	4846.3
27.5°	5488.5	5437.4	5384.7	5321.9	5262.1	5203.5	5140.2	5079.1	5019.5	4986.3	4949.5
25°	5579.5	5530.3	5468.2	5408.9	5351.2	5288.0	5227.0	5169.6	5110.6	5065.2	5034.0
22.5°	5633.1	5611.0	5550.4	5494.3	5428.9	5365.4	5306.1	5248.9	5189.6	5132.7	5107.1
20°	5654.7	5648.9	5632.3	5567.2	5499.9	5436.2	5379.6	5314.9	5256.4	5212.5	5179.9
17.5°	5668.7	5666.0	5658.4	5636.3	5564.6	5505.9	5435.8	5371.3	5327.8	5275.8	5225.9
15°	5683.3	5684.1	5668.2	5643.3	5618.0	5562.5	5481.7	5434.6	5376.0	5325.8	5291.3
12.5°	5699.9	5698.9	5679.1	5654.6	5629.3	5577.6	5540.2	5478.3	5417.4	5376.9	5333.3
10°	5717.3	5710.9	5691.8	5666.9	5629.5	5579.4	5551.8	5504.7	5459.6	5408.9	5366.2
7.5°	5734.8	5724.1	5707.7	5678.2	5631.0	5588.2	5547.2	5504.3	5470.8	5436.1	5391.2
5°	5752.2	5738.4	5726.2	5689.6	5637.8	5596.4	5546.9	5504.6	5462.8	5426.8	5395.9
2.5°	5769.3	5754.1	5746.6	5702.4	5650.2	5605.8	5551.7	5507.1	5457.2	5418.3	5384.5
0°	5785.7	5770.7	5768.1	5717.9	5667.6	5618.3	5562.5	5514.0	5457.3	5415.5	5380.4
-2.5°	5769.3	5754.1	5746.6	5702.4	5650.2	5605.8	5551.7	5507.1	5457.2	5418.3	5384.5
-5°	5752.2	5738.4	5726.2	5689.6	5637.8	5596.4	5546.9	5504.6	5462.8	5426.8	5395.9
-7.5°	5734.8	5724.1	5707.7	5678.2	5631.0	5588.2	5547.2	5504.3	5470.8	5436.1	5391.2
-10°	5717.3	5710.9	5691.8	5666.9	5629.5	5579.4	5551.8	5504.7	5459.6	5408.9	5366.2
-12.5°	5699.9	5698.9	5679.1	5654.6	5629.3	5577.6	5540.2	5478.3	5417.4	5376.9	5333.3
-15°	5683.3	5684.1	5668.2	5643.3	5618.0	5562.5	5481.7	5434.6	5376.0	5325.8	5291.3
-17.5°	5668.7	5666.0	5658.4	5636.3	5564.6	5505.9	5435.8	5371.3	5327.8	5275.8	5225.9
-20°	5654.7	5648.9	5632.3	5567.2	5499.9	5436.2	5379.6	5314.9	5256.4	5212.5	5179.9



REPORT NUMBER: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-3000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5633.1	5611.0	5550.4	5494.3	5428.9	5365.4	5306.1	5248.9	5189.6	5132.7	5107.1
-25°	5579.5	5530.3	5468.2	5408.9	5351.2	5288.0	5227.0	5169.6	5110.6	5065.2	5034.0
-27.5°	5488.5	5437.4	5384.7	5321.9	5262.1	5203.5	5140.2	5079.1	5019.5	4986.3	4949.5
-30°	5395.8	5342.4	5288.5	5233.1	5169.4	5107.4	5045.6	4981.5	4927.2	4886.9	4846.3
-32.5°	5292.4	5244.6	5188.4	5131.3	5073.4	5008.2	4943.0	4876.3	4828.2	4782.1	4733.2
-35°	5184.5	5139.4	5084.9	5025.1	4964.4	4901.5	4835.7	4770.6	4717.6	4664.2	4609.7
-37.5°	5062.4	5027.9	4977.1	4915.6	4851.1	4785.8	4717.7	4655.8	4597.5	4535.6	4472.6
-40°	4936.4	4902.9	4859.2	4806.4	4738.0	4665.2	4594.3	4528.1	4462.0	4393.8	4323.7
-42.5°	4806.7	4776.6	4732.2	4679.8	4622.1	4553.9	4473.0	4392.8	4316.5	4240.3	4161.8
-45°	4661.1	4642.5	4608.6	4554.5	4491.9	4425.9	4342.3	4258.3	4169.4	4080.4	3990.7
-47.5°	4505.7	4498.9	4470.6	4428.8	4374.0	4297.6	4195.8	4097.6	4002.5	3906.2	3807.4
-50°	4338.9	4347.9	4328.2	4294.3	4245.4	4159.7	4051.5	3942.6	3832.4	3722.1	3610.3
-52.5°	4158.4	4180.7	4180.8	4159.9	4118.7	4009.0	3890.1	3771.5	3652.6	3532.4	3409.7
-55°	3950.2	3999.2	4024.7	4019.8	3982.4	3852.1	3722.9	3592.6	3462.3	3330.7	3196.8
-57.5°	3724.1	3803.2	3850.9	3869.1	3819.0	3684.1	3545.7	3405.2	3264.1	3121.3	2976.0
-60°	3483.5	3594.9	3666.5	3713.0	3636.8	3495.4	3350.0	3203.2	3054.1	2902.3	2747.1
-62.5°	3228.8	3366.0	3471.6	3552.4	3442.2	3294.9	3143.2	2989.3	2832.8	2673.2	2510.0
-65°	2953.9	3118.7	3259.8	3366.8	3227.8	3076.4	2921.9	2764.0	2602.7	2437.4	2268.0
-67.5°	2562.0	2775.7	2976.8	3102.2	2973.8	2825.6	2673.2	2516.3	2354.9	2188.8	2018.0
-70°	2145.4	2353.4	2554.8	2641.7	2549.6	2443.8	2324.8	2193.7	2051.1	1898.1	1735.6
-72.5°	1720.5	1912.3	2103.3	2156.7	2085.6	2000.0	1901.1	1789.7	1667.0	1534.1	1392.2
-75°	1290.9	1447.3	1608.8	1642.0	1596.6	1537.3	1465.1	1381.1	1286.2	1181.7	1068.8
-77.5°	884.1	1006.2	1129.8	1145.8	1117.9	1078.7	1029.2	970.3	902.8	827.7	746.1
-80°	590.9	666.2	743.1	741.1	718.8	690.0	655.5	615.7	571.0	522.2	469.7
-82.5°	366.7	408.5	451.9	446.0	432.0	414.4	393.7	370.1	344.1	315.6	285.3
-85°	203.0	220.8	239.2	234.2	227.0	218.3	208.6	197.6	185.8	173.0	159.5
-87.5°	88.1	93.7	99.4	97.5	95.2	92.4	89.4	86.0	82.3	78.4	74.2
-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: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-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°	69.8	65.2	60.4	55.6	60.4	65.2	69.8	74.2	78.4	82.3	86.0
85°	145.3	130.6	115.5	100.1	115.5	130.6	145.3	159.5	173.0	185.8	197.6
82.5°	253.3	220.1	185.8	150.9	185.8	220.1	253.3	285.3	315.6	344.1	370.1
80°	414.1	356.2	296.2	235.1	296.2	356.2	414.1	469.7	522.2	571.0	615.7
77.5°	658.8	567.1	471.9	374.2	471.9	567.1	658.8	746.1	827.7	902.8	970.3
75°	948.6	822.5	691.6	557.3	691.6	822.5	948.6	1068.8	1181.7	1286.2	1381.1
72.5°	1242.3	1085.8	924.1	758.2	924.1	1085.8	1242.3	1392.2	1534.1	1667.0	1789.7
70°	1564.7	1386.4	1201.8	1012.0	1201.8	1386.4	1564.7	1735.6	1898.1	2051.1	2193.7
67.5°	1842.4	1661.9	1476.5	1286.2	1476.5	1661.9	1842.4	2018.0	2188.8	2354.9	2516.3
65°	2094.3	1915.9	1732.7	1544.4	1732.7	1915.9	2094.3	2268.0	2437.4	2602.7	2764.0
62.5°	2342.6	2170.7	1993.5	1810.8	1993.5	2170.7	2342.6	2510.0	2673.2	2832.8	2989.3
60°	2587.9	2423.7	2254.1	2078.5	2254.1	2423.7	2587.9	2747.1	2902.3	3054.1	3203.2
57.5°	2827.1	2673.7	2514.7	2349.2	2514.7	2673.7	2827.1	2976.0	3121.3	3264.1	3405.2
55°	3059.3	2917.3	2769.4	2614.6	2769.4	2917.3	3059.3	3196.8	3330.7	3462.3	3592.6
52.5°	3283.5	3152.3	3015.1	2870.4	3015.1	3152.3	3283.5	3409.7	3532.4	3652.6	3771.5
50°	3495.5	3376.2	3250.9	3118.0	3250.9	3376.2	3495.5	3610.3	3722.1	3832.4	3942.6
47.5°	3704.7	3596.7	3481.9	3358.8	3481.9	3596.7	3704.7	3807.4	3906.2	4002.5	4097.6
45°	3898.4	3801.9	3699.0	3588.1	3699.0	3801.9	3898.4	3990.7	4080.4	4169.4	4258.3
42.5°	4079.5	3991.9	3897.6	3794.9	3897.6	3991.9	4079.5	4161.8	4240.3	4316.5	4392.8
40°	4250.0	4171.1	4085.4	3991.0	4085.4	4171.1	4250.0	4323.7	4393.8	4462.0	4528.1
37.5°	4406.8	4336.3	4259.1	4173.5	4259.1	4336.3	4406.8	4472.6	4535.6	4597.5	4655.8
35°	4552.7	4491.3	4423.2	4346.5	4423.2	4491.3	4552.7	4609.7	4664.2	4717.6	4770.6
32.5°	4681.6	4625.6	4563.2	4492.7	4563.2	4625.6	4681.6	4733.2	4782.1	4828.2	4876.3
30°	4803.7	4757.2	4704.2	4642.4	4704.2	4757.2	4803.7	4846.3	4886.9	4927.2	4981.5
27.5°	4912.7	4873.6	4829.4	4776.9	4829.4	4873.6	4912.7	4949.5	4986.3	5019.5	5079.1
25°	5000.1	4962.9	4920.7	4871.4	4920.7	4962.9	5000.1	5034.0	5065.2	5110.6	5169.6
22.5°	5083.2	5056.4	5023.9	4982.9	5023.9	5056.4	5083.2	5107.1	5132.7	5189.6	5248.9
20°	5156.6	5136.6	5115.5	5087.8	5115.5	5136.6	5156.6	5179.9	5212.5	5256.4	5314.9
17.5°	5213.7	5198.1	5175.8	5145.8	5175.8	5198.1	5213.7	5225.9	5275.8	5327.8	5371.3
15°	5262.2	5243.1	5223.3	5198.9	5223.3	5243.1	5262.2	5291.3	5325.8	5376.0	5434.6
12.5°	5297.1	5284.9	5274.9	5259.2	5274.9	5284.9	5297.1	5333.3	5376.9	5417.4	5478.3
10°	5336.6	5305.5	5287.2	5269.0	5287.2	5305.5	5336.6	5366.2	5408.9	5459.6	5504.7
7.5°	5349.5	5321.0	5314.6	5314.2	5314.6	5321.0	5349.5	5391.2	5436.1	5470.8	5504.3
5°	5364.6	5338.0	5328.5	5316.4	5328.5	5338.0	5364.6	5395.9	5426.8	5462.8	5504.6
2.5°	5354.6	5332.6	5320.9	5327.6	5320.9	5332.6	5354.6	5384.5	5418.3	5457.2	5507.1
0°	5336.9	5320.7	5299.4	5306.4	5299.4	5320.7	5336.9	5380.4	5415.5	5457.3	5514.0
-2.5°	5354.6	5332.6	5320.9	5327.6	5320.9	5332.6	5354.6	5384.5	5418.3	5457.2	5507.1
-5°	5364.6	5338.0	5328.5	5316.4	5328.5	5338.0	5364.6	5395.9	5426.8	5462.8	5504.6
-7.5°	5349.5	5321.0	5314.6	5314.2	5314.6	5321.0	5349.5	5391.2	5436.1	5470.8	5504.3
-10°	5336.6	5305.5	5287.2	5269.0	5287.2	5305.5	5336.6	5366.2	5408.9	5459.6	5504.7
-12.5°	5297.1	5284.9	5274.9	5259.2	5274.9	5284.9	5297.1	5333.3	5376.9	5417.4	5478.3
-15°	5262.2	5243.1	5223.3	5198.9	5223.3	5243.1	5262.2	5291.3	5325.8	5376.0	5434.6
-17.5°	5213.7	5198.1	5175.8	5145.8	5175.8	5198.1	5213.7	5225.9	5275.8	5327.8	5371.3
-20°	5156.6	5136.6	5115.5	5087.8	5115.5	5136.6	5156.6	5179.9	5212.5	5256.4	5314.9



REPORT NUMBER: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-3000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5083.2	5056.4	5023.9	4982.9	5023.9	5056.4	5083.2	5107.1	5132.7	5189.6	5248.9
-25°	5000.1	4962.9	4920.7	4871.4	4920.7	4962.9	5000.1	5034.0	5065.2	5110.6	5169.6
-27.5°	4912.7	4873.6	4829.4	4776.9	4829.4	4873.6	4912.7	4949.5	4986.3	5019.5	5079.1
-30°	4803.7	4757.2	4704.2	4642.4	4704.2	4757.2	4803.7	4846.3	4886.9	4927.2	4981.5
-32.5°	4681.6	4625.6	4563.2	4492.7	4563.2	4625.6	4681.6	4733.2	4782.1	4828.2	4876.3
-35°	4552.7	4491.3	4423.2	4346.5	4423.2	4491.3	4552.7	4609.7	4664.2	4717.6	4770.6
-37.5°	4406.8	4336.3	4259.1	4173.5	4259.1	4336.3	4406.8	4472.6	4535.6	4597.5	4655.8
-40°	4250.0	4171.1	4085.4	3991.0	4085.4	4171.1	4250.0	4323.7	4393.8	4462.0	4528.1
-42.5°	4079.5	3991.9	3897.6	3794.9	3897.6	3991.9	4079.5	4161.8	4240.3	4316.5	4392.8
-45°	3898.4	3801.9	3699.0	3588.1	3699.0	3801.9	3898.4	3990.7	4080.4	4169.4	4258.3
-47.5°	3704.7	3596.7	3481.9	3358.8	3481.9	3596.7	3704.7	3807.4	3906.2	4002.5	4097.6
-50°	3495.5	3376.2	3250.9	3118.0	3250.9	3376.2	3495.5	3610.3	3722.1	3832.4	3942.6
-52.5°	3283.5	3152.3	3015.1	2870.4	3015.1	3152.3	3283.5	3409.7	3532.4	3652.6	3771.5
-55°	3059.3	2917.3	2769.4	2614.6	2769.4	2917.3	3059.3	3196.8	3330.7	3462.3	3592.6
-57.5°	2827.1	2673.7	2514.7	2349.2	2514.7	2673.7	2827.1	2976.0	3121.3	3264.1	3405.2
-60°	2587.9	2423.7	2254.1	2078.5	2254.1	2423.7	2587.9	2747.1	2902.3	3054.1	3203.2
-62.5°	2342.6	2170.7	1993.5	1810.8	1993.5	2170.7	2342.6	2510.0	2673.2	2832.8	2989.3
-65°	2094.3	1915.9	1732.7	1544.4	1732.7	1915.9	2094.3	2268.0	2437.4	2602.7	2764.0
-67.5°	1842.4	1661.9	1476.5	1286.2	1476.5	1661.9	1842.4	2018.0	2188.8	2354.9	2516.3
-70°	1564.7	1386.4	1201.8	1012.0	1201.8	1386.4	1564.7	1735.6	1898.1	2051.1	2193.7
-72.5°	1242.3	1085.8	924.1	758.2	924.1	1085.8	1242.3	1392.2	1534.1	1667.0	1789.7
-75°	948.6	822.5	691.6	557.3	691.6	822.5	948.6	1068.8	1181.7	1286.2	1381.1
-77.5°	658.8	567.1	471.9	374.2	471.9	567.1	658.8	746.1	827.7	902.8	970.3
-80°	414.1	356.2	296.2	235.1	296.2	356.2	414.1	469.7	522.2	571.0	615.7
-82.5°	253.3	220.1	185.8	150.9	185.8	220.1	253.3	285.3	315.6	344.1	370.1
-85°	145.3	130.6	115.5	100.1	115.5	130.6	145.3	159.5	173.0	185.8	197.6
-87.5°	69.8	65.2	60.4	55.6	60.4	65.2	69.8	74.2	78.4	82.3	86.0
-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: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-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°	89.4	92.4	95.2	97.5	99.4	93.7	88.1	82.5	76.9	71.3	65.9
85°	208.6	218.3	227.0	234.2	239.2	220.8	203.0	185.6	168.9	153.0	138.0
82.5°	393.7	414.4	432.0	446.0	451.9	408.5	366.7	326.6	288.8	253.2	220.5
80°	655.5	690.0	718.8	741.1	743.1	666.2	590.9	517.8	447.2	385.5	333.7
77.5°	1029.2	1078.7	1117.9	1145.8	1129.8	1006.2	884.1	771.5	676.1	584.5	497.2
75°	1465.1	1537.3	1596.6	1642.0	1608.8	1447.3	1290.9	1139.0	990.6	846.5	707.4
72.5°	1901.1	2000.0	2085.6	2156.7	2103.3	1912.3	1720.5	1530.4	1342.8	1158.6	983.7
70°	2324.8	2443.8	2549.6	2641.7	2554.8	2353.4	2145.4	1931.1	1710.6	1494.1	1285.8
67.5°	2673.2	2825.6	2973.8	3102.2	2976.8	2775.7	2562.0	2335.6	2099.2	1856.6	1607.8
65°	2921.9	3076.4	3227.8	3366.8	3259.8	3118.7	2953.9	2739.3	2492.4	2231.2	1957.5
62.5°	3143.2	3294.9	3442.2	3552.4	3471.6	3366.0	3228.8	3055.3	2852.5	2615.7	2329.2
60°	3350.0	3495.4	3636.8	3713.0	3666.5	3594.9	3483.5	3340.8	3165.5	2941.5	2682.6
57.5°	3545.7	3684.1	3819.0	3869.1	3850.9	3803.2	3724.1	3615.1	3457.8	3258.0	3017.5
55°	3722.9	3852.1	3982.4	4019.8	4024.7	3999.2	3950.2	3865.5	3735.2	3570.1	3337.0
52.5°	3890.1	4009.0	4118.7	4159.9	4180.8	4180.7	4158.4	4091.9	3998.0	3846.9	3648.2
50°	4051.5	4159.7	4245.4	4294.3	4328.2	4347.9	4338.9	4301.6	4227.3	4106.3	3936.2
47.5°	4195.8	4297.6	4374.0	4428.8	4470.6	4498.9	4505.7	4494.1	4434.2	4345.3	4190.9
45°	4342.3	4425.9	4491.9	4554.5	4608.6	4642.5	4661.1	4655.8	4628.1	4549.0	4434.4
42.5°	4473.0	4553.9	4622.1	4679.8	4732.2	4776.6	4806.7	4810.7	4791.8	4742.7	4636.5
40°	4594.3	4665.2	4738.0	4806.4	4859.2	4902.9	4936.4	4958.4	4945.4	4907.3	4833.9
37.5°	4717.7	4785.8	4851.1	4915.6	4977.1	5027.9	5062.4	5084.7	5092.9	5060.8	4996.2
35°	4835.7	4901.5	4964.4	5025.1	5084.9	5139.4	5184.5	5209.2	5218.1	5205.7	5146.1
32.5°	4943.0	5008.2	5073.4	5131.3	5188.4	5244.6	5292.4	5327.8	5342.4	5333.5	5219.3
30°	5045.6	5107.4	5169.4	5233.1	5288.5	5342.4	5395.8	5435.1	5456.3	5402.9	5288.4
27.5°	5140.2	5203.5	5262.1	5321.9	5384.7	5437.4	5488.5	5537.1	5525.5	5447.5	5338.9
25°	5227.0	5288.0	5351.2	5408.9	5468.2	5530.3	5579.5	5593.1	5556.0	5489.0	5390.1
22.5°	5306.1	5365.4	5428.9	5494.3	5550.4	5611.0	5633.1	5614.2	5588.9	5525.4	5429.0
20°	5379.6	5436.2	5499.9	5567.2	5632.3	5648.9	5654.7	5636.5	5608.5	5555.8	5465.3
17.5°	5435.8	5505.9	5564.6	5636.3	5658.4	5666.0	5668.7	5660.7	5628.9	5587.4	5500.7
15°	5481.7	5562.5	5618.0	5643.3	5668.2	5684.1	5683.3	5686.3	5649.8	5610.9	5527.0
12.5°	5540.2	5577.6	5629.3	5654.6	5679.1	5698.9	5699.9	5700.2	5671.7	5627.9	5551.3
10°	5551.8	5579.4	5629.5	5666.9	5691.8	5710.9	5717.3	5714.4	5693.6	5644.2	5573.9
7.5°	5547.2	5588.2	5631.0	5678.2	5707.7	5724.1	5734.8	5728.9	5714.9	5659.4	5594.1
5°	5546.9	5596.4	5637.8	5689.6	5726.2	5738.4	5752.2	5743.4	5734.8	5673.1	5611.0
2.5°	5551.7	5605.8	5650.2	5702.4	5746.6	5754.1	5769.3	5757.9	5752.5	5684.7	5623.6
0°	5562.5	5618.3	5667.6	5717.9	5768.1	5770.7	5785.7	5772.2	5767.2	5693.8	5630.8
-2.5°	5551.7	5605.8	5650.2	5702.4	5746.6	5754.1	5769.3	5757.9	5752.5	5684.7	5623.6
-5°	5546.9	5596.4	5637.8	5689.6	5726.2	5738.4	5752.2	5743.4	5734.8	5673.1	5611.0
-7.5°	5547.2	5588.2	5631.0	5678.2	5707.7	5724.1	5734.8	5728.9	5714.9	5659.4	5594.1
-10°	5551.8	5579.4	5629.5	5666.9	5691.8	5710.9	5717.3	5714.4	5693.6	5644.2	5573.9
-12.5°	5540.2	5577.6	5629.3	5654.6	5679.1	5698.9	5699.9	5700.2	5671.7	5627.9	5551.3
-15°	5481.7	5562.5	5618.0	5643.3	5668.2	5684.1	5683.3	5686.3	5649.8	5610.9	5527.0
-17.5°	5435.8	5505.9	5564.6	5636.3	5658.4	5666.0	5668.7	5660.7	5628.9	5587.4	5500.7
-20°	5379.6	5436.2	5499.9	5567.2	5632.3	5648.9	5654.7	5636.5	5608.5	5555.8	5465.3



REPORT NUMBER: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-3000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5306.1	5365.4	5428.9	5494.3	5550.4	5611.0	5633.1	5614.2	5588.9	5525.4	5429.0
-25°	5227.0	5288.0	5351.2	5408.9	5468.2	5530.3	5579.5	5593.1	5556.0	5489.0	5390.1
-27.5°	5140.2	5203.5	5262.1	5321.9	5384.7	5437.4	5488.5	5537.1	5525.5	5447.5	5338.9
-30°	5045.6	5107.4	5169.4	5233.1	5288.5	5342.4	5395.8	5435.1	5456.3	5402.9	5288.4
-32.5°	4943.0	5008.2	5073.4	5131.3	5188.4	5244.6	5292.4	5327.8	5342.4	5333.5	5219.3
-35°	4835.7	4901.5	4964.4	5025.1	5084.9	5139.4	5184.5	5209.2	5218.1	5205.7	5146.1
-37.5°	4717.7	4785.8	4851.1	4915.6	4977.1	5027.9	5062.4	5084.7	5092.9	5060.8	4996.2
-40°	4594.3	4665.2	4738.0	4806.4	4859.2	4902.9	4936.4	4958.4	4945.4	4907.3	4833.9
-42.5°	4473.0	4553.9	4622.1	4679.8	4732.2	4776.6	4806.7	4810.7	4791.8	4742.7	4636.5
-45°	4342.3	4425.9	4491.9	4554.5	4608.6	4642.5	4661.1	4655.8	4628.1	4549.0	4434.4
-47.5°	4195.8	4297.6	4374.0	4428.8	4470.6	4498.9	4505.7	4494.1	4434.2	4345.3	4190.9
-50°	4051.5	4159.7	4245.4	4294.3	4328.2	4347.9	4338.9	4301.6	4227.3	4106.3	3936.2
-52.5°	3890.1	4009.0	4118.7	4159.9	4180.8	4180.7	4158.4	4091.9	3998.0	3846.9	3648.2
-55°	3722.9	3852.1	3982.4	4019.8	4024.7	3999.2	3950.2	3865.5	3735.2	3570.1	3337.0
-57.5°	3545.7	3684.1	3819.0	3869.1	3850.9	3803.2	3724.1	3615.1	3457.8	3258.0	3017.5
-60°	3350.0	3495.4	3636.8	3713.0	3666.5	3594.9	3483.5	3340.8	3165.5	2941.5	2682.6
-62.5°	3143.2	3294.9	3442.2	3552.4	3471.6	3366.0	3228.8	3055.3	2852.5	2615.7	2329.2
-65°	2921.9	3076.4	3227.8	3366.8	3259.8	3118.7	2953.9	2739.3	2492.4	2231.2	1957.5
-67.5°	2673.2	2825.6	2973.8	3102.2	2976.8	2775.7	2562.0	2335.6	2099.2	1856.6	1607.8
-70°	2324.8	2443.8	2549.6	2641.7	2554.8	2353.4	2145.4	1931.1	1710.6	1494.1	1285.8
-72.5°	1901.1	2000.0	2085.6	2156.7	2103.3	1912.3	1720.5	1530.4	1342.8	1158.6	983.7
-75°	1465.1	1537.3	1596.6	1642.0	1608.8	1447.3	1290.9	1139.0	990.6	846.5	707.4
-77.5°	1029.2	1078.7	1117.9	1145.8	1129.8	1006.2	884.1	771.5	676.1	584.5	497.2
-80°	655.5	690.0	718.8	741.1	743.1	666.2	590.9	517.8	447.2	385.5	333.7
-82.5°	393.7	414.4	432.0	446.0	451.9	408.5	366.7	326.6	288.8	253.2	220.5
-85°	208.6	218.3	227.0	234.2	239.2	220.8	203.0	185.6	168.9	153.0	138.0
-87.5°	89.4	92.4	95.2	97.5	99.4	93.7	88.1	82.5	76.9	71.3	65.9
-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: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-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°	60.5	55.2	50.1	45.1	40.3	35.7	30.8	26.1	21.9	17.9	14.3
85°	123.9	110.9	99.1	88.5	79.2	71.3	61.4	52.1	43.6	35.7	28.5
82.5°	190.6	166.7	145.8	126.6	109.5	94.7	83.5	72.8	62.7	53.0	42.6
80°	285.8	242.2	203.2	169.1	140.2	117.7	103.7	90.2	77.5	65.4	54.0
77.5°	414.7	337.4	265.8	214.7	172.9	141.4	124.3	107.6	91.9	77.5	64.0
75°	574.0	471.9	381.0	297.5	221.7	164.7	145.0	125.8	107.3	89.5	73.7
72.5°	822.3	668.5	522.9	390.0	298.1	229.5	181.5	143.6	122.8	102.7	83.5
70°	1083.3	887.3	711.7	551.6	402.4	294.7	238.1	185.9	138.4	115.6	94.4
67.5°	1353.9	1132.2	918.8	714.5	539.0	412.5	301.7	232.7	178.0	128.5	104.8
65°	1685.6	1407.6	1129.8	902.8	686.8	534.0	408.5	291.6	215.9	160.2	114.9
62.5°	2027.0	1715.8	1414.2	1107.2	857.6	680.6	510.8	380.6	260.2	190.3	135.2
60°	2384.8	2053.1	1704.8	1372.1	1067.4	833.6	642.8	465.4	333.3	218.8	158.6
57.5°	2724.3	2392.3	2028.8	1647.5	1315.0	1021.0	778.2	574.4	402.6	271.2	180.6
55°	3061.5	2730.4	2352.7	1951.0	1570.1	1234.1	930.4	692.8	477.0	326.9	201.1
52.5°	3386.9	3065.0	2686.9	2258.0	1842.4	1445.8	1111.8	806.9	579.1	379.0	242.4
50°	3695.7	3392.5	3016.3	2566.6	2105.8	1681.1	1282.9	954.8	677.1	438.8	283.5
47.5°	3988.6	3699.2	3325.4	2856.7	2375.2	1903.4	1473.7	1098.2	770.6	521.6	321.5
45°	4240.9	3990.3	3594.7	3123.1	2629.9	2129.9	1662.8	1231.9	888.9	600.3	356.4
42.5°	4483.5	4226.7	3828.5	3375.6	2864.2	2348.6	1839.3	1386.0	999.3	674.8	407.4
40°	4687.8	4408.0	4039.0	3584.1	3084.1	2552.6	2022.5	1533.8	1100.9	751.3	468.6
37.5°	4853.6	4560.9	4204.1	3783.2	3284.7	2741.2	2194.7	1669.8	1201.9	834.1	525.9
35°	4950.6	4694.0	4364.3	3949.3	3457.7	2916.5	2352.8	1801.4	1314.1	909.4	579.1
32.5°	5045.3	4811.7	4487.5	4090.0	3620.1	3077.8	2498.7	1932.4	1415.7	976.9	628.1
30°	5120.1	4897.9	4604.7	4224.1	3762.5	3215.3	2632.5	2050.5	1506.5	1036.6	675.0
27.5°	5188.9	4983.2	4710.0	4331.5	3875.0	3340.6	2752.8	2155.3	1586.6	1096.6	723.0
25°	5250.9	5049.4	4782.5	4426.4	3979.1	3454.1	2859.3	2247.0	1665.5	1160.8	764.7
22.5°	5295.1	5107.4	4851.9	4515.3	4074.1	3554.8	2950.3	2330.9	1738.0	1215.7	800.1
20°	5338.2	5163.2	4917.4	4592.0	4149.4	3626.8	3027.4	2402.0	1798.7	1261.5	829.3
17.5°	5377.6	5206.6	4962.6	4640.1	4209.3	3688.6	3091.9	2460.2	1847.7	1298.1	852.3
15°	5404.6	5236.9	5000.2	4681.9	4260.3	3739.4	3143.6	2505.2	1885.0	1325.7	869.3
12.5°	5429.1	5263.7	5032.4	4716.8	4301.6	3778.6	3181.9	2537.0	1910.7	1344.5	880.4
10°	5450.3	5286.1	5058.5	4743.7	4332.0	3805.3	3206.6	2555.6	1925.0	1354.6	885.9
7.5°	5467.7	5303.3	5077.3	4761.5	4350.8	3819.1	3217.2	2561.0	1928.0	1356.2	885.9
5°	5480.4	5314.5	5088.0	4769.2	4356.9	3819.2	3213.4	2553.2	1919.9	1349.7	880.7
2.5°	5487.5	5318.8	5089.5	4766.0	4349.5	3805.0	3195.0	2532.4	1901.1	1335.2	870.5
0°	5488.6	5315.2	5080.9	4750.8	4327.6	3775.9	3161.7	2498.6	1871.9	1313.1	855.6
-2.5°	5487.5	5318.8	5089.5	4766.0	4349.5	3805.0	3195.0	2532.4	1901.1	1335.2	870.5
-5°	5480.4	5314.5	5088.0	4769.2	4356.9	3819.2	3213.4	2553.2	1919.9	1349.7	880.7
-7.5°	5467.7	5303.3	5077.3	4761.5	4350.8	3819.1	3217.2	2561.0	1928.0	1356.2	885.9
-10°	5450.3	5286.1	5058.5	4743.7	4332.0	3805.3	3206.6	2555.6	1925.0	1354.6	885.9
-12.5°	5429.1	5263.7	5032.4	4716.8	4301.6	3778.6	3181.9	2537.0	1910.7	1344.5	880.4
-15°	5404.6	5236.9	5000.2	4681.9	4260.3	3739.4	3143.6	2505.2	1885.0	1325.7	869.3
-17.5°	5377.6	5206.6	4962.6	4640.1	4209.3	3688.6	3091.9	2460.2	1847.7	1298.1	852.3
-20°	5338.2	5163.2	4917.4	4592.0	4149.4	3626.8	3027.4	2402.0	1798.7	1261.5	829.3



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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°	5295.1	5107.4	4851.9	4515.3	4074.1	3554.8	2950.3	2330.9	1738.0	1215.7	800.1
-25°	5250.9	5049.4	4782.5	4426.4	3979.1	3454.1	2859.3	2247.0	1665.5	1160.8	764.7
-27.5°	5188.9	4983.2	4710.0	4331.5	3875.0	3340.6	2752.8	2155.3	1586.6	1096.6	723.0
-30°	5120.1	4897.9	4604.7	4224.1	3762.5	3215.3	2632.5	2050.5	1506.5	1036.6	675.0
-32.5°	5045.3	4811.7	4487.5	4090.0	3620.1	3077.8	2498.7	1932.4	1415.7	976.9	628.1
-35°	4950.6	4694.0	4364.3	3949.3	3457.7	2916.5	2352.8	1801.4	1314.1	909.4	579.1
-37.5°	4853.6	4560.9	4204.1	3783.2	3284.7	2741.2	2194.7	1669.8	1201.9	834.1	525.9
-40°	4687.8	4408.0	4039.0	3584.1	3084.1	2552.6	2022.5	1533.8	1100.9	751.3	468.6
-42.5°	4483.5	4226.7	3828.5	3375.6	2864.2	2348.6	1839.3	1386.0	999.3	674.8	407.4
-45°	4240.9	3990.3	3594.7	3123.1	2629.9	2129.9	1662.8	1231.9	888.9	600.3	356.4
-47.5°	3988.6	3699.2	3325.4	2856.7	2375.2	1903.4	1473.7	1098.2	770.6	521.6	321.5
-50°	3695.7	3392.5	3016.3	2566.6	2105.8	1681.1	1282.9	954.8	677.1	438.8	283.5
-52.5°	3386.9	3065.0	2686.9	2258.0	1842.4	1445.8	1111.8	806.9	579.1	379.0	242.4
-55°	3061.5	2730.4	2352.7	1951.0	1570.1	1234.1	930.4	692.8	477.0	326.9	201.1
-57.5°	2724.3	2392.3	2028.8	1647.5	1315.0	1021.0	778.2	574.4	402.6	271.2	180.6
-60°	2384.8	2053.1	1704.8	1372.1	1067.4	833.6	642.8	465.4	333.3	218.8	158.6
-62.5°	2027.0	1715.8	1414.2	1107.2	857.6	680.6	510.8	380.6	260.2	190.3	135.2
-65°	1685.6	1407.6	1129.8	902.8	686.8	534.0	408.5	291.6	215.9	160.2	114.9
-67.5°	1353.9	1132.2	918.8	714.5	539.0	412.5	301.7	232.7	178.0	128.5	104.8
-70°	1083.3	887.3	711.7	551.6	402.4	294.7	238.1	185.9	138.4	115.6	94.4
-72.5°	822.3	668.5	522.9	390.0	298.1	229.5	181.5	143.6	122.8	102.7	83.5
-75°	574.0	471.9	381.0	297.5	221.7	164.7	145.0	125.8	107.3	89.5	73.7
-77.5°	414.7	337.4	265.8	214.7	172.9	141.4	124.3	107.6	91.9	77.5	64.0
-80°	285.8	242.2	203.2	169.1	140.2	117.7	103.7	90.2	77.5	65.4	54.0
-82.5°	190.6	166.7	145.8	126.6	109.5	94.7	83.5	72.8	62.7	53.0	42.6
-85°	123.9	110.9	99.1	88.5	79.2	71.3	61.4	52.1	43.6	35.7	28.5
-87.5°	60.5	55.2	50.1	45.1	40.3	35.7	30.8	26.1	21.9	17.9	14.3
-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: P670575 (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°	11.1	8.2	5.8	3.7	2.1	0.8	0.0
85°	22.1	16.4	11.5	7.4	4.1	1.6	0.0
82.5°	33.0	24.5	17.2	11.0	6.2	2.5	0.0
80°	43.4	32.4	22.7	14.6	8.2	3.3	0.0
77.5°	51.3	39.7	28.2	18.2	10.1	4.1	0.0
75°	59.1	45.7	33.4	21.6	12.1	4.8	0.0
72.5°	66.6	51.5	37.7	25.0	14.0	5.6	0.0
70°	74.1	57.1	41.8	28.1	15.8	6.4	0.0
67.5°	82.7	62.5	45.8	30.9	17.6	7.1	0.0
65°	91.1	68.4	49.7	33.5	19.3	7.8	0.0
62.5°	99.1	74.8	53.3	36.1	20.9	8.5	0.0
60°	106.7	81.0	56.8	38.5	22.4	9.1	0.0
57.5°	123.2	86.8	61.2	40.8	23.8	9.7	0.0
55°	139.8	92.3	65.5	42.9	25.1	10.3	0.0
52.5°	155.2	98.6	69.5	44.9	26.4	10.9	0.0
50°	169.4	110.0	73.3	46.7	27.5	11.4	0.0
47.5°	185.0	120.4	76.8	48.6	28.6	11.9	0.0
45°	214.4	129.8	80.1	51.0	29.6	12.4	0.0
42.5°	241.4	138.3	83.0	53.2	30.5	12.8	0.0
40°	265.8	145.7	87.4	55.2	31.3	13.2	0.0
37.5°	287.6	152.2	92.9	57.1	32.0	13.5	0.0
35°	306.7	165.0	97.6	58.7	32.6	13.8	0.0
32.5°	330.9	179.8	101.7	60.1	33.1	14.1	0.0
30°	369.3	192.7	105.2	61.3	33.5	14.3	0.0
27.5°	404.2	203.7	107.9	62.3	33.9	14.5	0.0
25°	435.2	212.8	110.0	63.1	34.1	14.6	0.0
22.5°	462.6	220.0	111.5	63.7	34.2	14.7	0.0
20°	486.0	225.4	112.4	64.1	34.3	14.8	0.0
17.5°	505.6	229.0	112.6	64.3	34.2	14.8	0.0
15°	521.4	230.9	112.3	64.3	34.1	14.8	0.0
12.5°	533.2	231.2	111.5	64.1	33.9	14.8	0.0
10°	541.2	229.9	110.1	63.7	33.6	14.7	0.0
7.5°	545.2	227.1	108.3	63.1	33.2	14.6	0.0
5°	545.3	223.0	106.1	62.4	32.7	14.5	0.0
2.5°	541.6	217.6	103.5	61.4	32.2	14.3	0.0
0°	534.1	211.0	100.5	60.3	31.6	14.1	0.0
-2.5°	541.6	217.6	103.5	61.4	32.2	14.3	0.0
-5°	545.3	223.0	106.1	62.4	32.7	14.5	0.0
-7.5°	545.2	227.1	108.3	63.1	33.2	14.6	0.0
-10°	541.2	229.9	110.1	63.7	33.6	14.7	0.0
-12.5°	533.2	231.2	111.5	64.1	33.9	14.8	0.0
-15°	521.4	230.9	112.3	64.3	34.1	14.8	0.0
-17.5°	505.6	229.0	112.6	64.3	34.2	14.8	0.0
-20°	486.0	225.4	112.4	64.1	34.3	14.8	0.0

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REPORT NUMBER: P670575 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	462.6	220.0	111.5	63.7	34.2	14.7	0.0
-25°	435.2	212.8	110.0	63.1	34.1	14.6	0.0
-27.5°	404.2	203.7	107.9	62.3	33.9	14.5	0.0
-30°	369.3	192.7	105.2	61.3	33.5	14.3	0.0
-32.5°	330.9	179.8	101.7	60.1	33.1	14.1	0.0
-35°	306.7	165.0	97.6	58.7	32.6	13.8	0.0
-37.5°	287.6	152.2	92.9	57.1	32.0	13.5	0.0
-40°	265.8	145.7	87.4	55.2	31.3	13.2	0.0
-42.5°	241.4	138.3	83.0	53.2	30.5	12.8	0.0
-45°	214.4	129.8	80.1	51.0	29.6	12.4	0.0
-47.5°	185.0	120.4	76.8	48.6	28.6	11.9	0.0
-50°	169.4	110.0	73.3	46.7	27.5	11.4	0.0
-52.5°	155.2	98.6	69.5	44.9	26.4	10.9	0.0
-55°	139.8	92.3	65.5	42.9	25.1	10.3	0.0
-57.5°	123.2	86.8	61.2	40.8	23.8	9.7	0.0
-60°	106.7	81.0	56.8	38.5	22.4	9.1	0.0
-62.5°	99.1	74.8	53.3	36.1	20.9	8.5	0.0
-65°	91.1	68.4	49.7	33.5	19.3	7.8	0.0
-67.5°	82.7	62.5	45.8	30.9	17.6	7.1	0.0
-70°	74.1	57.1	41.8	28.1	15.8	6.4	0.0
-72.5°	66.6	51.5	37.7	25.0	14.0	5.6	0.0
-75°	59.1	45.7	33.4	21.6	12.1	4.8	0.0
-77.5°	51.3	39.7	28.2	18.2	10.1	4.1	0.0
-80°	43.4	32.4	22.7	14.6	8.2	3.3	0.0
-82.5°	33.0	24.5	17.2	11.0	6.2	2.5	0.0
-85°	22.1	16.4	11.5	7.4	4.1	1.6	0.0
-87.5°	11.1	8.2	5.8	3.7	2.1	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)