

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: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLXL200FSUNVDBZSF-150W-4000K

Issue Date: 4/3/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670576 (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-4000K  
Description: SLIM LED FLOODLIGHT  
Light Source:  
Ballast/Driver: -

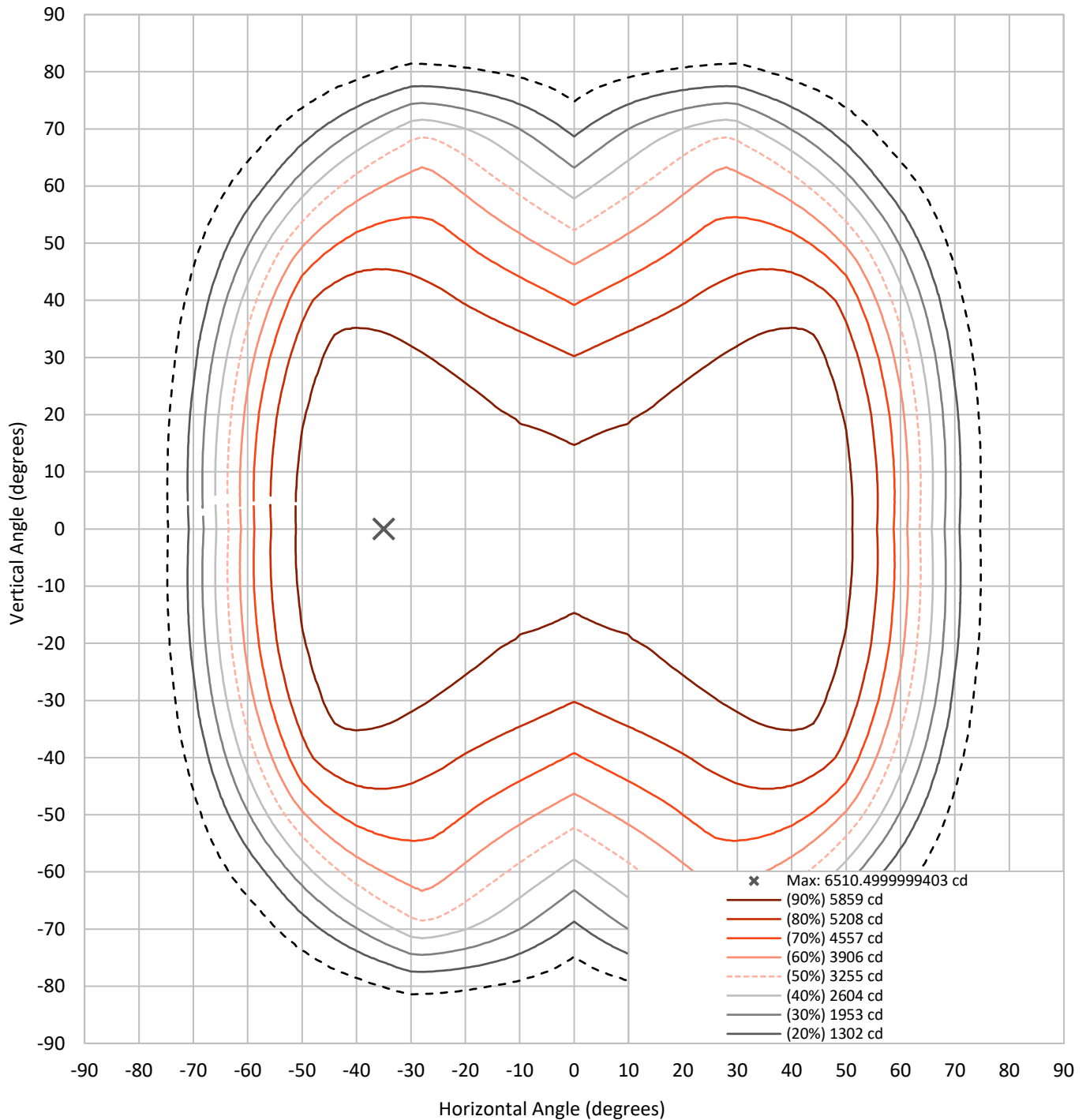
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22394.7 lumens	Max Intensity:	6510.5 candela
Efficiency:	N/A	Max Intensity Angle:	-35°H x 0°V
Efficacy:	157.4 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:	19438 lumens	Field Lumens:	22122.1 lumens
Beam Efficiency:	86.8%	Field Efficiency:	98.8%
Input Watts (W):	142.3		
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: GFLXL200FSUNVDBZSF-150W-4000K

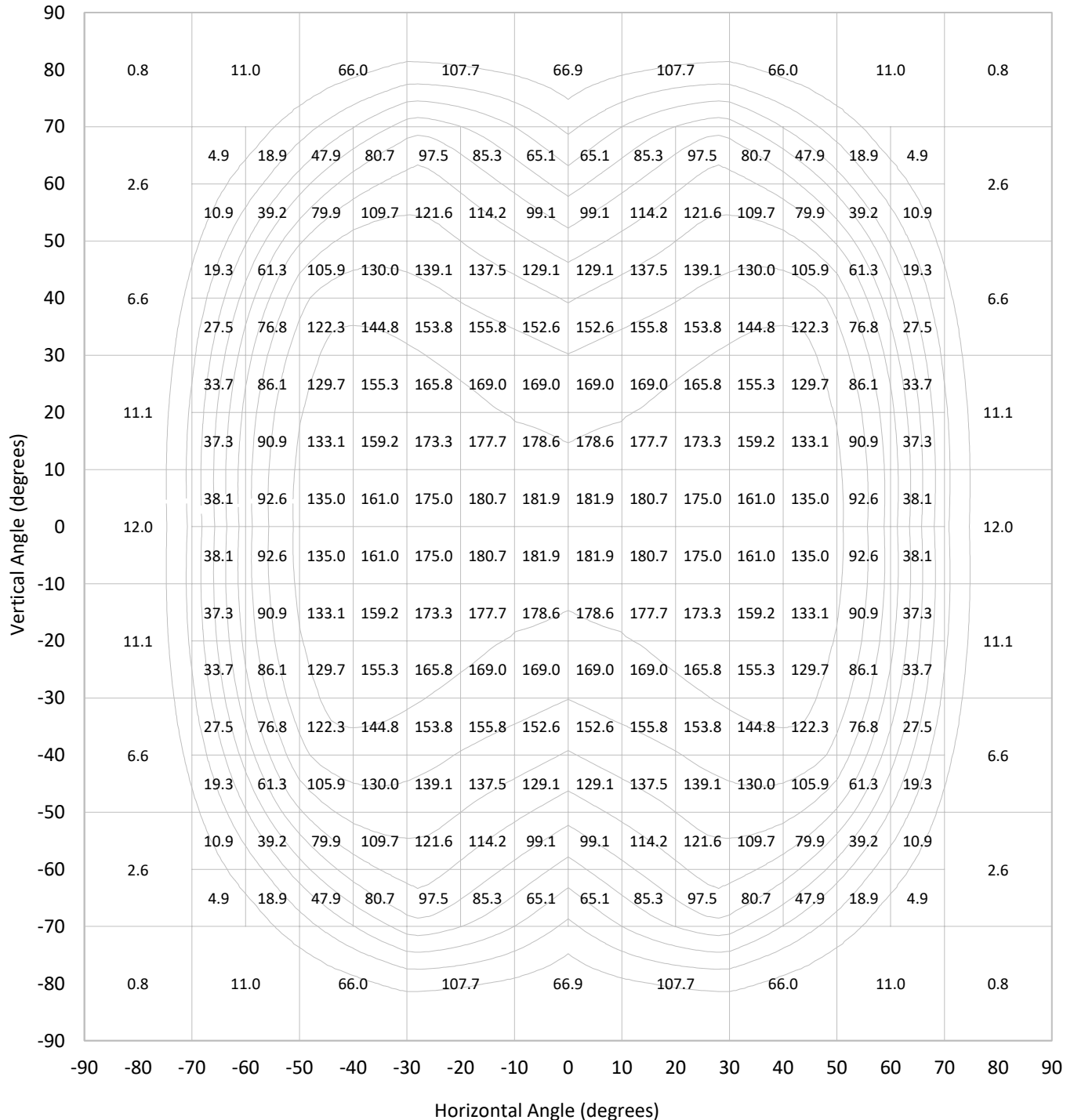
### Iso-Candela Plot





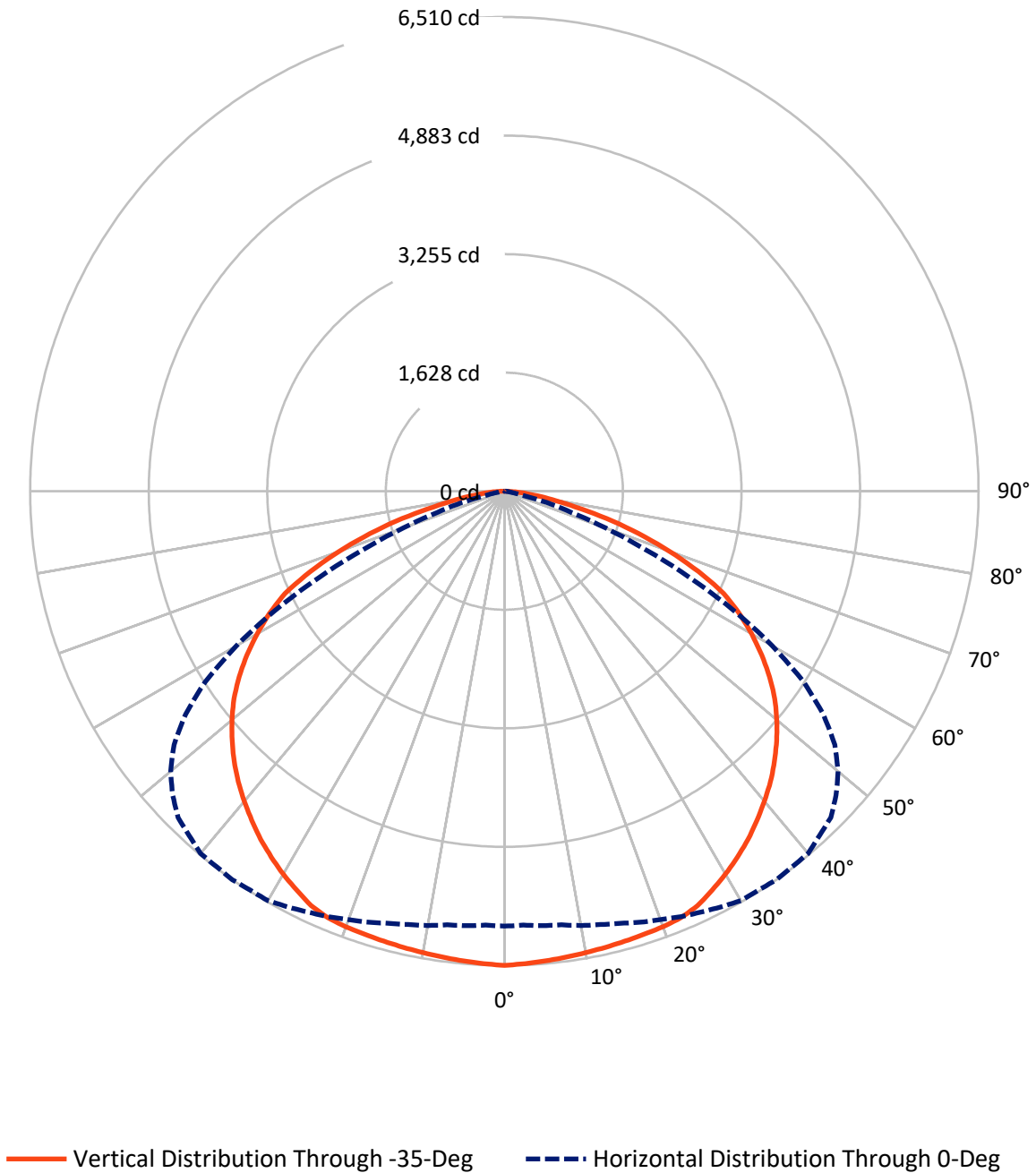
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### Lumen Table



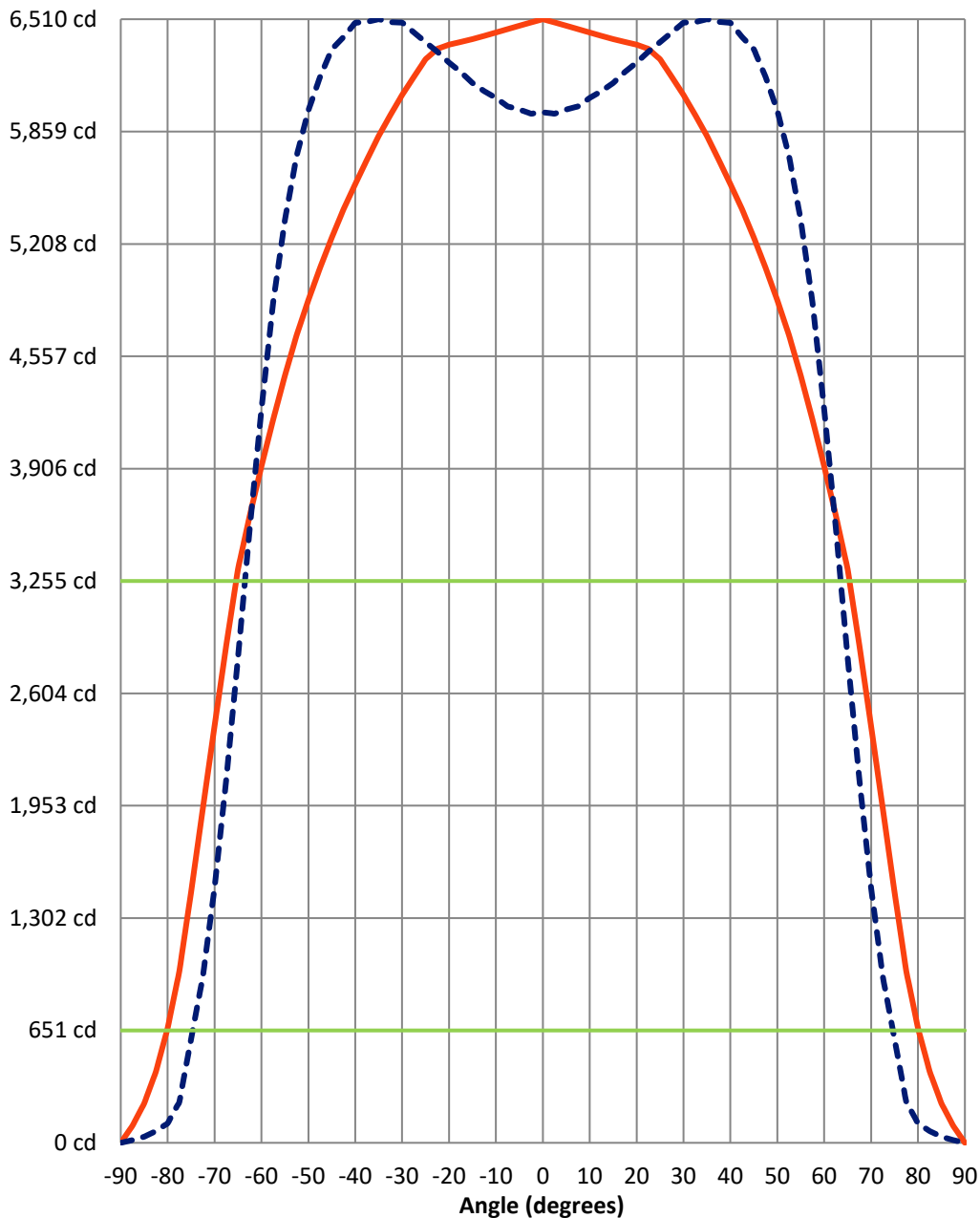
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 127°  
 V Angle: 130.8°  
 Lumens: 19438  
 Efficiency: 86.8%

**Field:**  
 H Angle: 149.3°  
 V Angle: 160.3°  
 Lumens: 22122.1  
 Efficiency: 98.8%

**Spill:**  
 Lumens: 272.6  
 Efficiency: 1.2%

— Vertical Distribution through -35-Deg  
 - - - Horizontal Distribution through 0-Deg

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Scaled Data Report



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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	0.9	2.3	4.2	6.5	9.3	12.5	16.1	20.1	24.6	29.4
85°	0.0	1.8	4.6	8.3	12.9	18.5	24.9	32.1	40.1	49.0	58.7
82.5°	0.0	2.8	6.9	12.4	19.3	27.6	37.1	47.9	59.6	70.5	82.0
80°	0.0	3.7	9.2	16.5	25.6	36.5	48.8	60.7	73.5	87.1	101.5
77.5°	0.0	4.6	11.4	20.5	31.8	44.7	57.8	72.0	87.2	103.5	121.1
75°	0.0	5.4	13.6	24.4	37.6	51.4	66.5	82.9	100.7	120.8	141.6
72.5°	0.0	6.3	15.7	28.1	42.4	57.9	74.9	94.0	115.6	138.1	161.5
70°	0.0	7.1	17.7	31.7	47.1	64.2	83.3	106.2	130.1	155.6	209.2
67.5°	0.0	8.0	19.7	34.8	51.6	70.3	93.1	118.0	144.6	200.2	261.9
65°	0.0	8.7	21.6	37.8	55.9	77.0	102.5	129.4	180.3	243.0	328.1
62.5°	0.0	9.5	23.4	40.6	60.0	84.2	111.5	152.2	214.2	292.8	428.3
60°	0.0	10.2	25.1	43.3	63.9	91.1	120.1	178.5	246.3	375.1	523.7
57.5°	0.0	10.9	26.7	45.9	68.9	97.7	138.7	203.3	305.1	453.1	646.4
55°	0.0	11.6	28.2	48.2	73.7	103.9	157.3	226.4	367.8	536.7	779.6
52.5°	0.0	12.2	29.6	50.5	78.2	111.0	174.7	272.8	426.5	651.6	908.0
50°	0.0	12.8	30.9	52.5	82.5	123.7	190.6	319.0	493.8	761.9	1074.4
47.5°	0.0	13.4	32.1	54.7	86.5	135.5	208.1	361.8	586.9	867.2	1235.8
45°	0.0	13.9	33.2	57.4	90.1	146.1	241.3	401.0	675.5	1000.2	1386.3
42.5°	0.0	14.3	34.2	59.9	93.4	155.6	271.6	458.5	759.3	1124.5	1559.6
40°	0.0	14.8	35.1	62.1	98.4	164.0	299.1	527.3	845.3	1238.9	1725.9
37.5°	0.0	15.1	35.9	64.2	104.5	171.3	323.6	591.7	938.6	1352.5	1879.0
35°	0.0	15.5	36.6	66.0	109.9	185.7	345.1	651.6	1023.3	1478.7	2027.0
32.5°	0.0	15.8	37.2	67.6	114.5	202.4	372.3	706.7	1099.3	1593.0	2174.5
30°	0.0	16.0	37.7	69.0	118.4	216.9	415.6	759.5	1166.5	1695.2	2307.3
27.5°	0.0	16.2	38.0	70.1	121.5	229.2	454.7	813.6	1233.9	1785.3	2425.3
25°	0.0	16.4	38.3	71.0	123.8	239.4	489.7	860.5	1306.1	1874.2	2528.4
22.5°	0.0	16.5	38.5	71.7	125.5	247.5	520.5	900.3	1368.0	1955.7	2622.9
20°	0.0	16.6	38.5	72.2	126.4	253.6	546.9	933.1	1419.5	2024.1	2702.9
17.5°	0.0	16.6	38.5	72.4	126.7	257.7	569.0	959.0	1460.7	2079.2	2768.3
15°	0.0	16.6	38.3	72.4	126.4	259.8	586.7	978.1	1491.8	2121.2	2819.0
12.5°	0.0	16.6	38.1	72.1	125.4	260.2	600.0	990.7	1512.9	2150.1	2854.9
10°	0.0	16.5	37.7	71.7	123.9	258.7	609.0	996.9	1524.3	2166.1	2875.8
7.5°	0.0	16.4	37.3	71.1	121.9	255.6	613.5	996.9	1526.2	2169.5	2881.8
5°	0.0	16.2	36.8	70.2	119.4	251.0	613.7	991.0	1518.8	2160.4	2873.0
2.5°	0.0	16.0	36.2	69.1	116.4	244.9	609.5	979.6	1502.5	2139.3	2849.5
0°	0.0	15.8	35.5	67.9	113.1	237.5	601.0	962.8	1477.6	2106.4	2811.5
-2.5°	0.0	16.0	36.2	69.1	116.4	244.9	609.5	979.6	1502.5	2139.3	2849.5
-5°	0.0	16.2	36.8	70.2	119.4	251.0	613.7	991.0	1518.8	2160.4	2873.0
-7.5°	0.0	16.4	37.3	71.1	121.9	255.6	613.5	996.9	1526.2	2169.5	2881.8
-10°	0.0	16.5	37.7	71.7	123.9	258.7	609.0	996.9	1524.3	2166.1	2875.8
-12.5°	0.0	16.6	38.1	72.1	125.4	260.2	600.0	990.7	1512.9	2150.1	2854.9
-15°	0.0	16.6	38.3	72.4	126.4	259.8	586.7	978.1	1491.8	2121.2	2819.0
-17.5°	0.0	16.6	38.5	72.4	126.7	257.7	569.0	959.0	1460.7	2079.2	2768.3
-20°	0.0	16.6	38.5	72.2	126.4	253.6	546.9	933.1	1419.5	2024.1	2702.9



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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	16.5	38.5	71.7	125.5	247.5	520.5	900.3	1368.0	1955.7	2622.9
-25°	0.0	16.4	38.3	71.0	123.8	239.4	489.7	860.5	1306.1	1874.2	2528.4
-27.5°	0.0	16.2	38.0	70.1	121.5	229.2	454.7	813.6	1233.9	1785.3	2425.3
-30°	0.0	16.0	37.7	69.0	118.4	216.9	415.6	759.5	1166.5	1695.2	2307.3
-32.5°	0.0	15.8	37.2	67.6	114.5	202.4	372.3	706.7	1099.3	1593.0	2174.5
-35°	0.0	15.5	36.6	66.0	109.9	185.7	345.1	651.6	1023.3	1478.7	2027.0
-37.5°	0.0	15.1	35.9	64.2	104.5	171.3	323.6	591.7	938.6	1352.5	1879.0
-40°	0.0	14.8	35.1	62.1	98.4	164.0	299.1	527.3	845.3	1238.9	1725.9
-42.5°	0.0	14.3	34.2	59.9	93.4	155.6	271.6	458.5	759.3	1124.5	1559.6
-45°	0.0	13.9	33.2	57.4	90.1	146.1	241.3	401.0	675.5	1000.2	1386.3
-47.5°	0.0	13.4	32.1	54.7	86.5	135.5	208.1	361.8	586.9	867.2	1235.8
-50°	0.0	12.8	30.9	52.5	82.5	123.7	190.6	319.0	493.8	761.9	1074.4
-52.5°	0.0	12.2	29.6	50.5	78.2	111.0	174.7	272.8	426.5	651.6	908.0
-55°	0.0	11.6	28.2	48.2	73.7	103.9	157.3	226.4	367.8	536.7	779.6
-57.5°	0.0	10.9	26.7	45.9	68.9	97.7	138.7	203.3	305.1	453.1	646.4
-60°	0.0	10.2	25.1	43.3	63.9	91.1	120.1	178.5	246.3	375.1	523.7
-62.5°	0.0	9.5	23.4	40.6	60.0	84.2	111.5	152.2	214.2	292.8	428.3
-65°	0.0	8.7	21.6	37.8	55.9	77.0	102.5	129.4	180.3	243.0	328.1
-67.5°	0.0	8.0	19.7	34.8	51.6	70.3	93.1	118.0	144.6	200.2	261.9
-70°	0.0	7.1	17.7	31.7	47.1	64.2	83.3	106.2	130.1	155.6	209.2
-72.5°	0.0	6.3	15.7	28.1	42.4	57.9	74.9	94.0	115.6	138.1	161.5
-75°	0.0	5.4	13.6	24.4	37.6	51.4	66.5	82.9	100.7	120.8	141.6
-77.5°	0.0	4.6	11.4	20.5	31.8	44.7	57.8	72.0	87.2	103.5	121.1
-80°	0.0	3.7	9.2	16.5	25.6	36.5	48.8	60.7	73.5	87.1	101.5
-82.5°	0.0	2.8	6.9	12.4	19.3	27.6	37.1	47.9	59.6	70.5	82.0
-85°	0.0	1.8	4.6	8.3	12.9	18.5	24.9	32.1	40.1	49.0	58.7
-87.5°	0.0	0.9	2.3	4.2	6.5	9.3	12.5	16.1	20.1	24.6	29.4
-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: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-4000K

**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°	34.6	40.2	45.4	50.8	56.4	62.1	68.1	74.1	80.2	86.5	92.8
85°	69.1	80.2	89.1	99.6	111.5	124.8	139.4	155.3	172.2	190.1	208.8
82.5°	94.0	106.6	123.2	142.5	164.0	187.6	214.4	248.0	285.0	324.9	367.6
80°	116.6	132.5	157.8	190.3	228.6	272.5	321.6	375.5	433.8	503.2	582.7
77.5°	139.9	159.2	194.5	241.6	299.1	379.6	466.6	559.4	657.7	760.7	868.1
75°	163.1	185.3	249.4	334.7	428.8	531.0	645.9	796.0	952.6	1114.7	1281.7
72.5°	204.2	258.3	335.4	438.9	588.4	752.2	925.3	1106.9	1303.8	1511.0	1722.1
70°	267.9	331.6	452.8	620.6	800.8	998.4	1219.0	1446.9	1681.3	1924.8	2173.0
67.5°	339.5	464.2	606.5	803.9	1033.9	1274.0	1523.5	1809.2	2089.2	2362.2	2628.1
65°	459.7	600.9	772.8	1015.9	1271.3	1584.0	1896.7	2202.7	2510.7	2804.6	3082.4
62.5°	574.7	765.9	965.0	1245.9	1591.4	1930.6	2280.9	2620.9	2943.3	3209.8	3438.0
60°	723.3	938.0	1201.1	1543.9	1918.3	2310.2	2683.5	3018.6	3310.0	3562.0	3759.3
57.5°	875.7	1148.9	1479.7	1853.9	2282.9	2692.0	3065.5	3395.5	3666.2	3890.9	4068.0
55°	1046.9	1388.7	1766.7	2195.4	2647.4	3072.3	3445.0	3754.9	4017.3	4203.1	4349.7
52.5°	1251.0	1626.9	2073.2	2540.9	3023.4	3449.0	3811.1	4105.1	4328.8	4498.9	4604.5
50°	1443.6	1891.7	2369.5	2888.1	3394.1	3817.5	4158.6	4429.2	4620.7	4756.8	4840.4
47.5°	1658.3	2141.9	2672.7	3214.5	3741.9	4162.6	4488.3	4715.8	4889.6	4989.7	5057.0
45°	1871.1	2396.6	2959.3	3514.3	4045.1	4490.2	4772.1	4989.9	5118.8	5207.9	5238.9
42.5°	2069.6	2642.7	3223.0	3798.4	4308.0	4756.2	5045.1	5217.3	5336.8	5392.1	5413.3
40°	2275.8	2872.2	3470.5	4033.1	4545.0	4960.1	5275.0	5439.4	5522.1	5564.8	5579.5
37.5°	2469.6	3084.5	3696.1	4257.0	4730.7	5132.2	5461.6	5622.0	5694.8	5730.8	5721.6
35°	2647.6	3281.7	3890.8	4444.0	4910.9	5282.0	5570.8	5790.7	5857.8	5871.7	5861.7
32.5°	2811.7	3463.3	4073.6	4602.4	5049.6	5414.4	5677.3	5873.0	6001.6	6011.6	5995.1
30°	2962.2	3618.0	4233.7	4753.2	5181.4	5511.4	5761.5	5950.9	6079.7	6139.8	6115.9
27.5°	3097.6	3759.0	4360.3	4874.1	5299.9	5607.4	5838.8	6007.6	6129.9	6217.6	6230.6
25°	3217.5	3886.7	4477.5	4980.8	5381.6	5681.8	5908.6	6065.3	6176.5	6252.0	6293.7
22.5°	3319.9	4000.1	4584.4	5080.8	5459.7	5747.2	5958.3	6109.0	6217.6	6289.0	6317.4
20°	3406.6	4081.1	4669.2	5167.1	5533.3	5810.0	6006.9	6149.9	6251.8	6311.1	6342.5
17.5°	3479.2	4150.6	4736.6	5221.3	5584.2	5858.7	6051.1	6189.7	6287.3	6334.0	6369.8
15°	3537.4	4207.8	4794.0	5268.4	5626.5	5892.9	6081.6	6219.3	6313.8	6357.5	6398.6
12.5°	3580.5	4251.8	4840.4	5307.6	5662.8	5923.1	6109.2	6246.6	6332.9	6382.2	6414.2
10°	3608.3	4282.0	4874.6	5337.8	5692.0	5948.2	6133.1	6272.1	6351.3	6406.8	6430.2
7.5°	3620.2	4297.5	4895.7	5357.9	5713.3	5967.6	6152.6	6294.9	6368.4	6430.8	6446.4
5°	3615.9	4297.7	4902.7	5366.7	5725.3	5980.2	6166.8	6313.8	6383.7	6453.2	6462.8
2.5°	3595.2	4281.7	4894.4	5363.0	5727.0	5985.0	6175.0	6328.0	6396.8	6473.1	6479.1
0°	3557.8	4248.9	4869.7	5345.9	5717.4	5981.0	6176.1	6336.2	6407.1	6489.6	6495.3
-2.5°	3595.2	4281.7	4894.4	5363.0	5727.0	5985.0	6175.0	6328.0	6396.8	6473.1	6479.1
-5°	3615.9	4297.7	4902.7	5366.7	5725.3	5980.2	6166.8	6313.8	6383.7	6453.2	6462.8
-7.5°	3620.2	4297.5	4895.7	5357.9	5713.3	5967.6	6152.6	6294.9	6368.4	6430.8	6446.4
-10°	3608.3	4282.0	4874.6	5337.8	5692.0	5948.2	6133.1	6272.1	6351.3	6406.8	6430.2
-12.5°	3580.5	4251.8	4840.4	5307.6	5662.8	5923.1	6109.2	6246.6	6332.9	6382.2	6414.2
-15°	3537.4	4207.8	4794.0	5268.4	5626.5	5892.9	6081.6	6219.3	6313.8	6357.5	6398.6
-17.5°	3479.2	4150.6	4736.6	5221.3	5584.2	5858.7	6051.1	6189.7	6287.3	6334.0	6369.8
-20°	3406.6	4081.1	4669.2	5167.1	5533.3	5810.0	6006.9	6149.9	6251.8	6311.1	6342.5



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 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-4000K

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	3319.9	4000.1	4584.4	5080.8	5459.7	5747.2	5958.3	6109.0	6217.6	6289.0	6317.4
-25°	3217.5	3886.7	4477.5	4980.8	5381.6	5681.8	5908.6	6065.3	6176.5	6252.0	6293.7
-27.5°	3097.6	3759.0	4360.3	4874.1	5299.9	5607.4	5838.8	6007.6	6129.9	6217.6	6230.6
-30°	2962.2	3618.0	4233.7	4753.2	5181.4	5511.4	5761.5	5950.9	6079.7	6139.8	6115.9
-32.5°	2811.7	3463.3	4073.6	4602.4	5049.6	5414.4	5677.3	5873.0	6001.6	6011.6	5995.1
-35°	2647.6	3281.7	3890.8	4444.0	4910.9	5282.0	5570.8	5790.7	5857.8	5871.7	5861.7
-37.5°	2469.6	3084.5	3696.1	4257.0	4730.7	5132.2	5461.6	5622.0	5694.8	5730.8	5721.6
-40°	2275.8	2872.2	3470.5	4033.1	4545.0	4960.1	5275.0	5439.4	5522.1	5564.8	5579.5
-42.5°	2069.6	2642.7	3223.0	3798.4	4308.0	4756.2	5045.1	5217.3	5336.8	5392.1	5413.3
-45°	1871.1	2396.6	2959.3	3514.3	4045.1	4490.2	4772.1	4989.9	5118.8	5207.9	5238.9
-47.5°	1658.3	2141.9	2672.7	3214.5	3741.9	4162.6	4488.3	4715.8	4889.6	4989.7	5057.0
-50°	1443.6	1891.7	2369.5	2888.1	3394.1	3817.5	4158.6	4429.2	4620.7	4756.8	4840.4
-52.5°	1251.0	1626.9	2073.2	2540.9	3023.4	3449.0	3811.1	4105.1	4328.8	4498.9	4604.5
-55°	1046.9	1388.7	1766.7	2195.4	2647.4	3072.3	3445.0	3754.9	4017.3	4203.1	4349.7
-57.5°	875.7	1148.9	1479.7	1853.9	2282.9	2692.0	3065.5	3395.5	3666.2	3890.9	4068.0
-60°	723.3	938.0	1201.1	1543.9	1918.3	2310.2	2683.5	3018.6	3310.0	3562.0	3759.3
-62.5°	574.7	765.9	965.0	1245.9	1591.4	1930.6	2280.9	2620.9	2943.3	3209.8	3438.0
-65°	459.7	600.9	772.8	1015.9	1271.3	1584.0	1896.7	2202.7	2510.7	2804.6	3082.4
-67.5°	339.5	464.2	606.5	803.9	1033.9	1274.0	1523.5	1809.2	2089.2	2362.2	2628.1
-70°	267.9	331.6	452.8	620.6	800.8	998.4	1219.0	1446.9	1681.3	1924.8	2173.0
-72.5°	204.2	258.3	335.4	438.9	588.4	752.2	925.3	1106.9	1303.8	1511.0	1722.1
-75°	163.1	185.3	249.4	334.7	428.8	531.0	645.9	796.0	952.6	1114.7	1281.7
-77.5°	139.9	159.2	194.5	241.6	299.1	379.6	466.6	559.4	657.7	760.7	868.1
-80°	116.6	132.5	157.8	190.3	228.6	272.5	321.6	375.5	433.8	503.2	582.7
-82.5°	94.0	106.6	123.2	142.5	164.0	187.6	214.4	248.0	285.0	324.9	367.6
-85°	69.1	80.2	89.1	99.6	111.5	124.8	139.4	155.3	172.2	190.1	208.8
-87.5°	34.6	40.2	45.4	50.8	56.4	62.1	68.1	74.1	80.2	86.5	92.8
-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: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-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°	99.2	105.5	111.8	109.8	107.1	104.0	100.6	96.7	92.7	88.2	83.5
85°	228.4	248.6	269.2	263.6	255.4	245.7	234.7	222.4	209.0	194.6	179.4
82.5°	412.6	459.7	508.5	501.9	486.0	466.3	443.1	416.5	387.1	355.2	321.0
80°	664.9	749.6	836.1	834.0	808.8	776.5	737.6	692.8	642.6	587.6	528.6
77.5°	994.9	1132.2	1271.3	1289.3	1257.9	1213.9	1158.2	1091.8	1015.8	931.3	839.5
75°	1452.7	1628.6	1810.3	1847.7	1796.6	1729.9	1648.6	1554.0	1447.3	1329.7	1202.6
72.5°	1936.0	2151.9	2366.8	2426.9	2346.8	2250.6	2139.2	2013.9	1875.8	1726.3	1566.6
70°	2414.2	2648.2	2874.8	2972.5	2869.0	2749.9	2616.1	2468.4	2308.0	2135.8	1953.0
67.5°	2882.9	3123.4	3349.7	3490.7	3346.3	3179.6	3008.1	2831.5	2649.9	2463.0	2270.8
65°	3323.9	3509.3	3668.1	3788.5	3632.2	3461.7	3287.9	3110.3	2928.7	2742.7	2552.1
62.5°	3633.2	3787.7	3906.5	3997.3	3873.4	3707.6	3536.8	3363.7	3187.7	3008.1	2824.4
60°	3919.9	4045.2	4125.8	4178.1	4092.3	3933.3	3769.6	3604.3	3436.7	3265.9	3091.3
57.5°	4190.5	4279.6	4333.3	4353.8	4297.3	4145.6	3989.8	3831.8	3672.9	3512.3	3348.8
55°	4445.0	4500.2	4528.9	4523.3	4481.3	4334.7	4189.2	4042.7	3895.9	3747.9	3597.2
52.5°	4679.2	4704.4	4704.5	4680.9	4634.7	4511.3	4377.3	4243.8	4110.1	3974.9	3836.9
50°	4882.4	4892.6	4870.4	4832.2	4777.2	4680.8	4559.0	4436.4	4312.5	4188.4	4062.5
47.5°	5070.0	5062.4	5030.5	4983.6	4921.9	4835.9	4721.4	4610.8	4503.9	4395.5	4284.3
45°	5245.0	5224.0	5185.9	5125.0	5054.6	4980.3	4886.2	4791.7	4691.6	4591.5	4490.5
42.5°	5408.7	5374.9	5324.9	5266.0	5201.1	5124.3	5033.3	4943.1	4857.2	4771.4	4683.1
40°	5554.8	5517.0	5467.9	5408.5	5331.5	5249.6	5169.8	5095.3	5020.9	4944.2	4865.3
37.5°	5696.4	5657.7	5600.5	5531.4	5458.7	5385.3	5308.6	5238.9	5173.4	5103.8	5032.9
35°	5834.0	5783.2	5721.9	5654.6	5586.3	5515.5	5441.4	5368.2	5308.5	5248.4	5187.1
32.5°	5955.4	5901.5	5838.3	5774.1	5708.9	5635.5	5562.2	5487.2	5433.0	5381.1	5326.1
30°	6071.6	6011.6	5950.9	5888.6	5817.0	5747.2	5677.7	5605.5	5544.3	5499.0	5453.3
27.5°	6176.0	6118.5	6059.2	5988.5	5921.2	5855.3	5784.0	5715.3	5648.3	5611.0	5569.5
25°	6278.4	6223.0	6153.1	6086.5	6021.5	5950.3	5881.8	5817.2	5750.7	5699.7	5664.5
22.5°	6338.7	6313.8	6245.7	6182.5	6108.9	6037.4	5970.8	5906.5	5839.6	5775.6	5746.8
20°	6363.0	6356.5	6337.8	6264.6	6188.9	6117.1	6053.4	5980.6	5914.8	5865.4	5828.8
17.5°	6378.8	6375.8	6367.2	6342.4	6261.6	6195.6	6116.7	6044.2	5995.2	5936.7	5880.4
15°	6395.2	6396.1	6378.3	6350.2	6321.7	6259.3	6168.4	6115.4	6049.4	5992.9	5954.0
12.5°	6413.9	6412.7	6390.5	6363.0	6334.5	6276.3	6234.2	6164.5	6096.1	6050.4	6001.4
10°	6433.4	6426.2	6404.7	6376.7	6334.6	6278.3	6247.3	6194.3	6143.4	6086.4	6038.4
7.5°	6453.1	6441.0	6422.6	6389.5	6336.3	6288.2	6242.1	6193.7	6156.1	6117.0	6066.5
5°	6472.7	6457.2	6443.4	6402.3	6344.0	6297.5	6241.6	6194.2	6147.1	6106.5	6071.8
2.5°	6491.9	6474.8	6466.4	6416.7	6357.9	6308.1	6247.1	6197.0	6140.8	6097.1	6059.1
0°	6510.5	6493.6	6490.6	6434.2	6377.5	6322.1	6259.3	6204.7	6140.9	6093.8	6054.4
-2.5°	6491.9	6474.8	6466.4	6416.7	6357.9	6308.1	6247.1	6197.0	6140.8	6097.1	6059.1
-5°	6472.7	6457.2	6443.4	6402.3	6344.0	6297.5	6241.6	6194.2	6147.1	6106.5	6071.8
-7.5°	6453.1	6441.0	6422.6	6389.5	6336.3	6288.2	6242.1	6193.7	6156.1	6117.0	6066.5
-10°	6433.4	6426.2	6404.7	6376.7	6334.6	6278.3	6247.3	6194.3	6143.4	6086.4	6038.4
-12.5°	6413.9	6412.7	6390.5	6363.0	6334.5	6276.3	6234.2	6164.5	6096.1	6050.4	6001.4
-15°	6395.2	6396.1	6378.3	6350.2	6321.7	6259.3	6168.4	6115.4	6049.4	5992.9	5954.0
-17.5°	6378.8	6375.8	6367.2	6342.4	6261.6	6195.6	6116.7	6044.2	5995.2	5936.7	5880.4
-20°	6363.0	6356.5	6337.8	6264.6	6188.9	6117.1	6053.4	5980.6	5914.8	5865.4	5828.8



REPORT NUMBER: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-4000K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6338.7	6313.8	6245.7	6182.5	6108.9	6037.4	5970.8	5906.5	5839.6	5775.6	5746.8
-25°	6278.4	6223.0	6153.1	6086.5	6021.5	5950.3	5881.8	5817.2	5750.7	5699.7	5664.5
-27.5°	6176.0	6118.5	6059.2	5988.5	5921.2	5855.3	5784.0	5715.3	5648.3	5611.0	5569.5
-30°	6071.6	6011.6	5950.9	5888.6	5817.0	5747.2	5677.7	5605.5	5544.3	5499.0	5453.3
-32.5°	5955.4	5901.5	5838.3	5774.1	5708.9	5635.5	5562.2	5487.2	5433.0	5381.1	5326.1
-35°	5834.0	5783.2	5721.9	5654.6	5586.3	5515.5	5441.4	5368.2	5308.5	5248.4	5187.1
-37.5°	5696.4	5657.7	5600.5	5531.4	5458.7	5385.3	5308.6	5238.9	5173.4	5103.8	5032.9
-40°	5554.8	5517.0	5467.9	5408.5	5331.5	5249.6	5169.8	5095.3	5020.9	4944.2	4865.3
-42.5°	5408.7	5374.9	5324.9	5266.0	5201.1	5124.3	5033.3	4943.1	4857.2	4771.4	4683.1
-45°	5245.0	5224.0	5185.9	5125.0	5054.6	4980.3	4886.2	4791.7	4691.6	4591.5	4490.5
-47.5°	5070.0	5062.4	5030.5	4983.6	4921.9	4835.9	4721.4	4610.8	4503.9	4395.5	4284.3
-50°	4882.4	4892.6	4870.4	4832.2	4777.2	4680.8	4559.0	4436.4	4312.5	4188.4	4062.5
-52.5°	4679.2	4704.4	4704.5	4680.9	4634.7	4511.3	4377.3	4243.8	4110.1	3974.9	3836.9
-55°	4445.0	4500.2	4528.9	4523.3	4481.3	4334.7	4189.2	4042.7	3895.9	3747.9	3597.2
-57.5°	4190.5	4279.6	4333.3	4353.8	4297.3	4145.6	3989.8	3831.8	3672.9	3512.3	3348.8
-60°	3919.9	4045.2	4125.8	4178.1	4092.3	3933.3	3769.6	3604.3	3436.7	3265.9	3091.3
-62.5°	3633.2	3787.7	3906.5	3997.3	3873.4	3707.6	3536.8	3363.7	3187.7	3008.1	2824.4
-65°	3323.9	3509.3	3668.1	3788.5	3632.2	3461.7	3287.9	3110.3	2928.7	2742.7	2552.1
-67.5°	2882.9	3123.4	3349.7	3490.7	3346.3	3179.6	3008.1	2831.5	2649.9	2463.0	2270.8
-70°	2414.2	2648.2	2874.8	2972.5	2869.0	2749.9	2616.1	2468.4	2308.0	2135.8	1953.0
-72.5°	1936.0	2151.9	2366.8	2426.9	2346.8	2250.6	2139.2	2013.9	1875.8	1726.3	1566.6
-75°	1452.7	1628.6	1810.3	1847.7	1796.6	1729.9	1648.6	1554.0	1447.3	1329.7	1202.6
-77.5°	994.9	1132.2	1271.3	1289.3	1257.9	1213.9	1158.2	1091.8	1015.8	931.3	839.5
-80°	664.9	749.6	836.1	834.0	808.8	776.5	737.6	692.8	642.6	587.6	528.6
-82.5°	412.6	459.7	508.5	501.9	486.0	466.3	443.1	416.5	387.1	355.2	321.0
-85°	228.4	248.6	269.2	263.6	255.4	245.7	234.7	222.4	209.0	194.6	179.4
-87.5°	99.2	105.5	111.8	109.8	107.1	104.0	100.6	96.7	92.7	88.2	83.5
-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: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-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°	78.5	73.3	68.0	62.5	68.0	73.3	78.5	83.5	88.2	92.7	96.7
85°	163.5	147.0	129.9	112.6	129.9	147.0	163.5	179.4	194.6	209.0	222.4
82.5°	285.0	247.6	209.1	169.8	209.1	247.6	285.0	321.0	355.2	387.1	416.5
80°	466.1	400.7	333.4	264.6	333.4	400.7	466.1	528.6	587.6	642.6	692.8
77.5°	741.4	638.1	531.0	421.1	531.0	638.1	741.4	839.5	931.3	1015.8	1091.8
75°	1067.5	925.5	778.3	627.1	778.3	925.5	1067.5	1202.6	1329.7	1447.3	1554.0
72.5°	1397.9	1221.9	1039.8	853.2	1039.8	1221.9	1397.9	1566.6	1726.3	1875.8	2013.9
70°	1760.7	1560.1	1352.3	1138.8	1352.3	1560.1	1760.7	1953.0	2135.8	2308.0	2468.4
67.5°	2073.2	1870.1	1661.4	1447.3	1661.4	1870.1	2073.2	2270.8	2463.0	2649.9	2831.5
65°	2356.7	2155.9	1949.8	1737.9	1949.8	2155.9	2356.7	2552.1	2742.7	2928.7	3110.3
62.5°	2636.1	2442.6	2243.3	2037.7	2243.3	2442.6	2636.1	2824.4	3008.1	3187.7	3363.7
60°	2912.0	2727.3	2536.5	2338.8	2536.5	2727.3	2912.0	3091.3	3265.9	3436.7	3604.3
57.5°	3181.3	3008.6	2829.7	2643.4	2829.7	3008.6	3181.3	3348.8	3512.3	3672.9	3831.8
55°	3442.5	3282.7	3116.3	2942.1	3116.3	3282.7	3442.5	3597.2	3747.9	3895.9	4042.7
52.5°	3694.8	3547.2	3392.8	3230.0	3392.8	3547.2	3694.8	3836.9	3974.9	4110.1	4243.8
50°	3933.4	3799.1	3658.1	3508.6	3658.1	3799.1	3933.4	4062.5	4188.4	4312.5	4436.4
47.5°	4168.8	4047.2	3918.0	3779.5	3918.0	4047.2	4168.8	4284.3	4395.5	4503.9	4610.8
45°	4386.8	4278.1	4162.3	4037.5	4162.3	4278.1	4386.8	4490.5	4591.5	4691.6	4791.7
42.5°	4590.5	4492.0	4385.8	4270.3	4385.8	4492.0	4590.5	4683.1	4771.4	4857.2	4943.1
40°	4782.3	4693.5	4597.1	4491.0	4597.1	4693.5	4782.3	4865.3	4944.2	5020.9	5095.3
37.5°	4958.8	4879.4	4792.7	4696.3	4792.7	4879.4	4958.8	5032.9	5103.8	5173.4	5238.9
35°	5123.0	5053.8	4977.3	4891.0	4977.3	5053.8	5123.0	5187.1	5248.4	5308.5	5368.2
32.5°	5268.1	5205.0	5134.8	5055.4	5134.8	5205.0	5268.1	5326.1	5381.1	5433.0	5487.2
30°	5405.5	5353.1	5293.5	5223.9	5293.5	5353.1	5405.5	5453.3	5499.0	5544.3	5605.5
27.5°	5528.1	5484.1	5434.3	5375.3	5434.3	5484.1	5528.1	5569.5	5611.0	5648.3	5715.3
25°	5626.4	5584.6	5537.1	5481.7	5537.1	5584.6	5626.4	5664.5	5699.7	5750.7	5817.2
22.5°	5719.9	5689.8	5653.3	5607.1	5653.3	5689.8	5719.9	5746.8	5775.6	5839.6	5906.5
20°	5802.5	5779.9	5756.3	5725.1	5756.3	5779.9	5802.5	5828.8	5865.4	5914.8	5980.6
17.5°	5866.7	5849.2	5824.1	5790.4	5824.1	5849.2	5866.7	5880.4	5936.7	5995.2	6044.2
15°	5921.4	5899.9	5877.5	5850.2	5877.5	5899.9	5921.4	5954.0	5992.9	6049.4	6115.4
12.5°	5960.6	5946.9	5935.6	5918.0	5935.6	5946.9	5960.6	6001.4	6050.4	6096.1	6164.5
10°	6005.1	5970.0	5949.5	5929.1	5949.5	5970.0	6005.1	6038.4	6086.4	6143.4	6194.3
7.5°	6019.6	5987.6	5980.3	5979.9	5980.3	5987.6	6019.6	6066.5	6117.0	6156.1	6193.7
5°	6036.6	6006.6	5996.1	5982.4	5996.1	6006.6	6036.6	6071.8	6106.5	6147.1	6194.2
2.5°	6025.3	6000.6	5987.4	5995.0	5987.4	6000.6	6025.3	6059.1	6097.1	6140.8	6197.0
0°	6005.5	5987.2	5963.2	5971.1	5963.2	5987.2	6005.5	6054.4	6093.8	6140.9	6204.7
-2.5°	6025.3	6000.6	5987.4	5995.0	5987.4	6000.6	6025.3	6059.1	6097.1	6140.8	6197.0
-5°	6036.6	6006.6	5996.1	5982.4	5996.1	6006.6	6036.6	6071.8	6106.5	6147.1	6194.2
-7.5°	6019.6	5987.6	5980.3	5979.9	5980.3	5987.6	6019.6	6066.5	6117.0	6156.1	6193.7
-10°	6005.1	5970.0	5949.5	5929.1	5949.5	5970.0	6005.1	6038.4	6086.4	6143.4	6194.3
-12.5°	5960.6	5946.9	5935.6	5918.0	5935.6	5946.9	5960.6	6001.4	6050.4	6096.1	6164.5
-15°	5921.4	5899.9	5877.5	5850.2	5877.5	5899.9	5921.4	5954.0	5992.9	6049.4	6115.4
-17.5°	5866.7	5849.2	5824.1	5790.4	5824.1	5849.2	5866.7	5880.4	5936.7	5995.2	6044.2
-20°	5802.5	5779.9	5756.3	5725.1	5756.3	5779.9	5802.5	5828.8	5865.4	5914.8	5980.6



REPORT NUMBER: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-4000K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5719.9	5689.8	5653.3	5607.1	5653.3	5689.8	5719.9	5746.8	5775.6	5839.6	5906.5
-25°	5626.4	5584.6	5537.1	5481.7	5537.1	5584.6	5626.4	5664.5	5699.7	5750.7	5817.2
-27.5°	5528.1	5484.1	5434.3	5375.3	5434.3	5484.1	5528.1	5569.5	5611.0	5648.3	5715.3
-30°	5405.5	5353.1	5293.5	5223.9	5293.5	5353.1	5405.5	5453.3	5499.0	5544.3	5605.5
-32.5°	5268.1	5205.0	5134.8	5055.4	5134.8	5205.0	5268.1	5326.1	5381.1	5433.0	5487.2
-35°	5123.0	5053.8	4977.3	4891.0	4977.3	5053.8	5123.0	5187.1	5248.4	5308.5	5368.2
-37.5°	4958.8	4879.4	4792.7	4696.3	4792.7	4879.4	4958.8	5032.9	5103.8	5173.4	5238.9
-40°	4782.3	4693.5	4597.1	4491.0	4597.1	4693.5	4782.3	4865.3	4944.2	5020.9	5095.3
-42.5°	4590.5	4492.0	4385.8	4270.3	4385.8	4492.0	4590.5	4683.1	4771.4	4857.2	4943.1
-45°	4386.8	4278.1	4162.3	4037.5	4162.3	4278.1	4386.8	4490.5	4591.5	4691.6	4791.7
-47.5°	4168.8	4047.2	3918.0	3779.5	3918.0	4047.2	4168.8	4284.3	4395.5	4503.9	4610.8
-50°	3933.4	3799.1	3658.1	3508.6	3658.1	3799.1	3933.4	4062.5	4188.4	4312.5	4436.4
-52.5°	3694.8	3547.2	3392.8	3230.0	3392.8	3547.2	3694.8	3836.9	3974.9	4110.1	4243.8
-55°	3442.5	3282.7	3116.3	2942.1	3116.3	3282.7	3442.5	3597.2	3747.9	3895.9	4042.7
-57.5°	3181.3	3008.6	2829.7	2643.4	2829.7	3008.6	3181.3	3348.8	3512.3	3672.9	3831.8
-60°	2912.0	2727.3	2536.5	2338.8	2536.5	2727.3	2912.0	3091.3	3265.9	3436.7	3604.3
-62.5°	2636.1	2442.6	2243.3	2037.7	2243.3	2442.6	2636.1	2824.4	3008.1	3187.7	3363.7
-65°	2356.7	2155.9	1949.8	1737.9	1949.8	2155.9	2356.7	2552.1	2742.7	2928.7	3110.3
-67.5°	2073.2	1870.1	1661.4	1447.3	1661.4	1870.1	2073.2	2270.8	2463.0	2649.9	2831.5
-70°	1760.7	1560.1	1352.3	1138.8	1352.3	1560.1	1760.7	1953.0	2135.8	2308.0	2468.4
-72.5°	1397.9	1221.9	1039.8	853.2	1039.8	1221.9	1397.9	1566.6	1726.3	1875.8	2013.9
-75°	1067.5	925.5	778.3	627.1	778.3	925.5	1067.5	1202.6	1329.7	1447.3	1554.0
-77.5°	741.4	638.1	531.0	421.1	531.0	638.1	741.4	839.5	931.3	1015.8	1091.8
-80°	466.1	400.7	333.4	264.6	333.4	400.7	466.1	528.6	587.6	642.6	692.8
-82.5°	285.0	247.6	209.1	169.8	209.1	247.6	285.0	321.0	355.2	387.1	416.5
-85°	163.5	147.0	129.9	112.6	129.9	147.0	163.5	179.4	194.6	209.0	222.4
-87.5°	78.5	73.3	68.0	62.5	68.0	73.3	78.5	83.5	88.2	92.7	96.7
-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: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-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°	100.6	104.0	107.1	109.8	111.8	105.5	99.2	92.8	86.5	80.2	74.1
85°	234.7	245.7	255.4	263.6	269.2	248.6	228.4	208.8	190.1	172.2	155.3
82.5°	443.1	466.3	486.0	501.9	508.5	459.7	412.6	367.6	324.9	285.0	248.0
80°	737.6	776.5	808.8	834.0	836.1	749.6	664.9	582.7	503.2	433.8	375.5
77.5°	1158.2	1213.9	1257.9	1289.3	1271.3	1132.2	994.9	868.1	760.7	657.7	559.4
75°	1648.6	1729.9	1796.6	1847.7	1810.3	1628.6	1452.7	1281.7	1114.7	952.6	796.0
72.5°	2139.2	2250.6	2346.8	2426.9	2366.8	2151.9	1936.0	1722.1	1511.0	1303.8	1106.9
70°	2616.1	2749.9	2869.0	2972.5	2874.8	2648.2	2414.2	2173.0	1924.8	1681.3	1446.9
67.5°	3008.1	3179.6	3346.3	3490.7	3349.7	3123.4	2882.9	2628.1	2362.2	2089.2	1809.2
65°	3287.9	3461.7	3632.2	3788.5	3668.1	3509.3	3323.9	3082.4	2804.6	2510.7	2202.7
62.5°	3536.8	3707.6	3873.4	3997.3	3906.5	3787.7	3633.2	3438.0	3209.8	2943.3	2620.9
60°	3769.6	3933.3	4092.3	4178.1	4125.8	4045.2	3919.9	3759.3	3562.0	3310.0	3018.6
57.5°	3989.8	4145.6	4297.3	4353.8	4333.3	4279.6	4190.5	4068.0	3890.9	3666.2	3395.5
55°	4189.2	4334.7	4481.3	4523.3	4528.9	4500.2	4445.0	4349.7	4203.1	4017.3	3754.9
52.5°	4377.3	4511.3	4634.7	4680.9	4704.5	4704.4	4679.2	4604.5	4498.9	4328.8	4105.1
50°	4559.0	4680.8	4777.2	4832.2	4870.4	4892.6	4882.4	4840.4	4756.8	4620.7	4429.2
47.5°	4721.4	4835.9	4921.9	4983.6	5030.5	5062.4	5070.0	5057.0	4989.7	4889.6	4715.8
45°	4886.2	4980.3	5054.6	5125.0	5185.9	5224.0	5245.0	5238.9	5207.9	5118.8	4989.9
42.5°	5033.3	5124.3	5201.1	5266.0	5324.9	5374.9	5408.7	5413.3	5392.1	5336.8	5217.3
40°	5169.8	5249.6	5331.5	5408.5	5467.9	5517.0	5554.8	5579.5	5564.8	5522.1	5439.4
37.5°	5308.6	5385.3	5458.7	5531.4	5600.5	5657.7	5696.4	5721.6	5730.8	5694.8	5622.0
35°	5441.4	5515.5	5586.3	5654.6	5721.9	5783.2	5834.0	5861.7	5871.7	5857.8	5790.7
32.5°	5562.2	5635.5	5708.9	5774.1	5838.3	5901.5	5955.4	5995.1	6011.6	6001.6	5873.0
30°	5677.7	5747.2	5817.0	5888.6	5950.9	6011.6	6071.6	6115.9	6139.8	6079.7	5950.9
27.5°	5784.0	5855.3	5921.2	5988.5	6059.2	6118.5	6176.0	6230.6	6217.6	6129.9	6007.6
25°	5881.8	5950.3	6021.5	6086.5	6153.1	6223.0	6278.4	6293.7	6252.0	6176.5	6065.3
22.5°	5970.8	6037.4	6108.9	6182.5	6245.7	6313.8	6338.7	6317.4	6289.0	6217.6	6109.0
20°	6053.4	6117.1	6188.9	6264.6	6337.8	6356.5	6363.0	6342.5	6311.1	6251.8	6149.9
17.5°	6116.7	6195.6	6261.6	6342.4	6367.2	6375.8	6378.8	6369.8	6334.0	6287.3	6189.7
15°	6168.4	6259.3	6321.7	6350.2	6378.3	6396.1	6395.2	6398.6	6357.5	6313.8	6219.3
12.5°	6234.2	6276.3	6334.5	6363.0	6390.5	6412.7	6413.9	6414.2	6382.2	6332.9	6246.6
10°	6247.3	6278.3	6334.6	6376.7	6404.7	6426.2	6433.4	6430.2	6406.8	6351.3	6272.1
7.5°	6242.1	6288.2	6336.3	6389.5	6422.6	6441.0	6453.1	6446.4	6430.8	6368.4	6294.9
5°	6241.6	6297.5	6344.0	6402.3	6443.4	6457.2	6472.7	6462.8	6453.2	6383.7	6313.8
2.5°	6247.1	6308.1	6357.9	6416.7	6466.4	6474.8	6491.9	6479.1	6473.1	6396.8	6328.0
0°	6259.3	6322.1	6377.5	6434.2	6490.6	6493.6	6510.5	6495.3	6489.6	6407.1	6336.2
-2.5°	6247.1	6308.1	6357.9	6416.7	6466.4	6474.8	6491.9	6479.1	6473.1	6396.8	6328.0
-5°	6241.6	6297.5	6344.0	6402.3	6443.4	6457.2	6472.7	6462.8	6453.2	6383.7	6313.8
-7.5°	6242.1	6288.2	6336.3	6389.5	6422.6	6441.0	6453.1	6446.4	6430.8	6368.4	6294.9
-10°	6247.3	6278.3	6334.6	6376.7	6404.7	6426.2	6433.4	6430.2	6406.8	6351.3	6272.1
-12.5°	6234.2	6276.3	6334.5	6363.0	6390.5	6412.7	6413.9	6414.2	6382.2	6332.9	6246.6
-15°	6168.4	6259.3	6321.7	6350.2	6378.3	6396.1	6395.2	6398.6	6357.5	6313.8	6219.3
-17.5°	6116.7	6195.6	6261.6	6342.4	6367.2	6375.8	6378.8	6369.8	6334.0	6287.3	6189.7
-20°	6053.4	6117.1	6188.9	6264.6	6337.8	6356.5	6363.0	6342.5	6311.1	6251.8	6149.9



REPORT NUMBER: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-4000K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5970.8	6037.4	6108.9	6182.5	6245.7	6313.8	6338.7	6317.4	6289.0	6217.6	6109.0
-25°	5881.8	5950.3	6021.5	6086.5	6153.1	6223.0	6278.4	6293.7	6252.0	6176.5	6065.3
-27.5°	5784.0	5855.3	5921.2	5988.5	6059.2	6118.5	6176.0	6230.6	6217.6	6129.9	6007.6
-30°	5677.7	5747.2	5817.0	5888.6	5950.9	6011.6	6071.6	6115.9	6139.8	6079.7	5950.9
-32.5°	5562.2	5635.5	5708.9	5774.1	5838.3	5901.5	5955.4	5995.1	6011.6	6001.6	5873.0
-35°	5441.4	5515.5	5586.3	5654.6	5721.9	5783.2	5834.0	5861.7	5871.7	5857.8	5790.7
-37.5°	5308.6	5385.3	5458.7	5531.4	5600.5	5657.7	5696.4	5721.6	5730.8	5694.8	5622.0
-40°	5169.8	5249.6	5331.5	5408.5	5467.9	5517.0	5554.8	5579.5	5564.8	5522.1	5439.4
-42.5°	5033.3	5124.3	5201.1	5266.0	5324.9	5374.9	5408.7	5413.3	5392.1	5336.8	5217.3
-45°	4886.2	4980.3	5054.6	5125.0	5185.9	5224.0	5245.0	5238.9	5207.9	5118.8	4989.9
-47.5°	4721.4	4835.9	4921.9	4983.6	5030.5	5062.4	5070.0	5057.0	4989.7	4889.6	4715.8
-50°	4559.0	4680.8	4777.2	4832.2	4870.4	4892.6	4882.4	4840.4	4756.8	4620.7	4429.2
-52.5°	4377.3	4511.3	4634.7	4680.9	4704.5	4704.4	4679.2	4604.5	4498.9	4328.8	4105.1
-55°	4189.2	4334.7	4481.3	4523.3	4528.9	4500.2	4445.0	4349.7	4203.1	4017.3	3754.9
-57.5°	3989.8	4145.6	4297.3	4353.8	4333.3	4279.6	4190.5	4068.0	3890.9	3666.2	3395.5
-60°	3769.6	3933.3	4092.3	4178.1	4125.8	4045.2	3919.9	3759.3	3562.0	3310.0	3018.6
-62.5°	3536.8	3707.6	3873.4	3997.3	3906.5	3787.7	3633.2	3438.0	3209.8	2943.3	2620.9
-65°	3287.9	3461.7	3632.2	3788.5	3668.1	3509.3	3323.9	3082.4	2804.6	2510.7	2202.7
-67.5°	3008.1	3179.6	3346.3	3490.7	3349.7	3123.4	2882.9	2628.1	2362.2	2089.2	1809.2
-70°	2616.1	2749.9	2869.0	2972.5	2874.8	2648.2	2414.2	2173.0	1924.8	1681.3	1446.9
-72.5°	2139.2	2250.6	2346.8	2426.9	2366.8	2151.9	1936.0	1722.1	1511.0	1303.8	1106.9
-75°	1648.6	1729.9	1796.6	1847.7	1810.3	1628.6	1452.7	1281.7	1114.7	952.6	796.0
-77.5°	1158.2	1213.9	1257.9	1289.3	1271.3	1132.2	994.9	868.1	760.7	657.7	559.4
-80°	737.6	776.5	808.8	834.0	836.1	749.6	664.9	582.7	503.2	433.8	375.5
-82.5°	443.1	466.3	486.0	501.9	508.5	459.7	412.6	367.6	324.9	285.0	248.0
-85°	234.7	245.7	255.4	263.6	269.2	248.6	228.4	208.8	190.1	172.2	155.3
-87.5°	100.6	104.0	107.1	109.8	111.8	105.5	99.2	92.8	86.5	80.2	74.1
-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: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-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°	68.1	62.1	56.4	50.8	45.4	40.2	34.6	29.4	24.6	20.1	16.1
85°	139.4	124.8	111.5	99.6	89.1	80.2	69.1	58.7	49.0	40.1	32.1
82.5°	214.4	187.6	164.0	142.5	123.2	106.6	94.0	82.0	70.5	59.6	47.9
80°	321.6	272.5	228.6	190.3	157.8	132.5	116.6	101.5	87.1	73.5	60.7
77.5°	466.6	379.6	299.1	241.6	194.5	159.2	139.9	121.1	103.5	87.2	72.0
75°	645.9	531.0	428.8	334.7	249.4	185.3	163.1	141.6	120.8	100.7	82.9
72.5°	925.3	752.2	588.4	438.9	335.4	258.3	204.2	161.5	138.1	115.6	94.0
70°	1219.0	998.4	800.8	620.6	452.8	331.6	267.9	209.2	155.6	130.1	106.2
67.5°	1523.5	1274.0	1033.9	803.9	606.5	464.2	339.5	261.9	200.2	144.6	118.0
65°	1896.7	1584.0	1271.3	1015.9	772.8	600.9	459.7	328.1	243.0	180.3	129.4
62.5°	2280.9	1930.6	1591.4	1245.9	965.0	765.9	574.7	428.3	292.8	214.2	152.2
60°	2683.5	2310.2	1918.3	1543.9	1201.1	938.0	723.3	523.7	375.1	246.3	178.5
57.5°	3065.5	2692.0	2282.9	1853.9	1479.7	1148.9	875.7	646.4	453.1	305.1	203.3
55°	3445.0	3072.3	2647.4	2195.4	1766.7	1388.7	1046.9	779.6	536.7	367.8	226.4
52.5°	3811.1	3449.0	3023.4	2540.9	2073.2	1626.9	1251.0	908.0	651.6	426.5	272.8
50°	4158.6	3817.5	3394.1	2888.1	2369.5	1891.7	1443.6	1074.4	761.9	493.8	319.0
47.5°	4488.3	4162.6	3741.9	3214.5	2672.7	2141.9	1658.3	1235.8	867.2	586.9	361.8
45°	4772.1	4490.2	4045.1	3514.3	2959.3	2396.6	1871.1	1386.3	1000.2	675.5	401.0
42.5°	5045.1	4756.2	4308.0	3798.4	3223.0	2642.7	2069.6	1559.6	1124.5	759.3	458.5
40°	5275.0	4960.1	4545.0	4033.1	3470.5	2872.2	2275.8	1725.9	1238.9	845.3	527.3
37.5°	5461.6	5132.2	4730.7	4257.0	3696.1	3084.5	2469.6	1879.0	1352.5	938.6	591.7
35°	5570.8	5282.0	4910.9	4444.0	3890.8	3281.7	2647.6	2027.0	1478.7	1023.3	651.6
32.5°	5677.3	5414.4	5049.6	4602.4	4073.6	3463.3	2811.7	2174.5	1593.0	1099.3	706.7
30°	5761.5	5511.4	5181.4	4753.2	4233.7	3618.0	2962.2	2307.3	1695.2	1166.5	759.5
27.5°	5838.8	5607.4	5299.9	4874.1	4360.3	3759.0	3097.6	2425.3	1785.3	1233.9	813.6
25°	5908.6	5681.8	5381.6	4980.8	4477.5	3886.7	3217.5	2528.4	1874.2	1306.1	860.5
22.5°	5958.3	5747.2	5459.7	5080.8	4584.4	4000.1	3319.9	2622.9	1955.7	1368.0	900.3
20°	6006.9	5810.0	5533.3	5167.1	4669.2	4081.1	3406.6	2702.9	2024.1	1419.5	933.1
17.5°	6051.1	5858.7	5584.2	5221.3	4736.6	4150.6	3479.2	2768.3	2079.2	1460.7	959.0
15°	6081.6	5892.9	5626.5	5268.4	4794.0	4207.8	3537.4	2819.0	2121.2	1491.8	978.1
12.5°	6109.2	5923.1	5662.8	5307.6	4840.4	4251.8	3580.5	2854.9	2150.1	1512.9	990.7
10°	6133.1	5948.2	5692.0	5337.8	4874.6	4282.0	3608.3	2875.8	2166.1	1524.3	996.9
7.5°	6152.6	5967.6	5713.3	5357.9	4895.7	4297.5	3620.2	2881.8	2169.5	1526.2	996.9
5°	6166.8	5980.2	5725.3	5366.7	4902.7	4297.7	3615.9	2873.0	2160.4	1518.8	991.0
2.5°	6175.0	5985.0	5727.0	5363.0	4894.4	4281.7	3595.2	2849.5	2139.3	1502.5	979.6
0°	6176.1	5981.0	5717.4	5345.9	4869.7	4248.9	3557.8	2811.5	2106.4	1477.6	962.8
-2.5°	6175.0	5985.0	5727.0	5363.0	4894.4	4281.7	3595.2	2849.5	2139.3	1502.5	979.6
-5°	6166.8	5980.2	5725.3	5366.7	4902.7	4297.7	3615.9	2873.0	2160.4	1518.8	991.0
-7.5°	6152.6	5967.6	5713.3	5357.9	4895.7	4297.5	3620.2	2881.8	2169.5	1526.2	996.9
-10°	6133.1	5948.2	5692.0	5337.8	4874.6	4282.0	3608.3	2875.8	2166.1	1524.3	996.9
-12.5°	6109.2	5923.1	5662.8	5307.6	4840.4	4251.8	3580.5	2854.9	2150.1	1512.9	990.7
-15°	6081.6	5892.9	5626.5	5268.4	4794.0	4207.8	3537.4	2819.0	2121.2	1491.8	978.1
-17.5°	6051.1	5858.7	5584.2	5221.3	4736.6	4150.6	3479.2	2768.3	2079.2	1460.7	959.0
-20°	6006.9	5810.0	5533.3	5167.1	4669.2	4081.1	3406.6	2702.9	2024.1	1419.5	933.1



REPORT NUMBER: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	5958.3	5747.2	5459.7	5080.8	4584.4	4000.1	3319.9	2622.9	1955.7	1368.0	900.3
-25°	5908.6	5681.8	5381.6	4980.8	4477.5	3886.7	3217.5	2528.4	1874.2	1306.1	860.5
-27.5°	5838.8	5607.4	5299.9	4874.1	4360.3	3759.0	3097.6	2425.3	1785.3	1233.9	813.6
-30°	5761.5	5511.4	5181.4	4753.2	4233.7	3618.0	2962.2	2307.3	1695.2	1166.5	759.5
-32.5°	5677.3	5414.4	5049.6	4602.4	4073.6	3463.3	2811.7	2174.5	1593.0	1099.3	706.7
-35°	5570.8	5282.0	4910.9	4444.0	3890.8	3281.7	2647.6	2027.0	1478.7	1023.3	651.6
-37.5°	5461.6	5132.2	4730.7	4257.0	3696.1	3084.5	2469.6	1879.0	1352.5	938.6	591.7
-40°	5275.0	4960.1	4545.0	4033.1	3470.5	2872.2	2275.8	1725.9	1238.9	845.3	527.3
-42.5°	5045.1	4756.2	4308.0	3798.4	3223.0	2642.7	2069.6	1559.6	1124.5	759.3	458.5
-45°	4772.1	4490.2	4045.1	3514.3	2959.3	2396.6	1871.1	1386.3	1000.2	675.5	401.0
-47.5°	4488.3	4162.6	3741.9	3214.5	2672.7	2141.9	1658.3	1235.8	867.2	586.9	361.8
-50°	4158.6	3817.5	3394.1	2888.1	2369.5	1891.7	1443.6	1074.4	761.9	493.8	319.0
-52.5°	3811.1	3449.0	3023.4	2540.9	2073.2	1626.9	1251.0	908.0	651.6	426.5	272.8
-55°	3445.0	3072.3	2647.4	2195.4	1766.7	1388.7	1046.9	779.6	536.7	367.8	226.4
-57.5°	3065.5	2692.0	2282.9	1853.9	1479.7	1148.9	875.7	646.4	453.1	305.1	203.3
-60°	2683.5	2310.2	1918.3	1543.9	1201.1	938.0	723.3	523.7	375.1	246.3	178.5
-62.5°	2280.9	1930.6	1591.4	1245.9	965.0	765.9	574.7	428.3	292.8	214.2	152.2
-65°	1896.7	1584.0	1271.3	1015.9	772.8	600.9	459.7	328.1	243.0	180.3	129.4
-67.5°	1523.5	1274.0	1033.9	803.9	606.5	464.2	339.5	261.9	200.2	144.6	118.0
-70°	1219.0	998.4	800.8	620.6	452.8	331.6	267.9	209.2	155.6	130.1	106.2
-72.5°	925.3	752.2	588.4	438.9	335.4	258.3	204.2	161.5	138.1	115.6	94.0
-75°	645.9	531.0	428.8	334.7	249.4	185.3	163.1	141.6	120.8	100.7	82.9
-77.5°	466.6	379.6	299.1	241.6	194.5	159.2	139.9	121.1	103.5	87.2	72.0
-80°	321.6	272.5	228.6	190.3	157.8	132.5	116.6	101.5	87.1	73.5	60.7
-82.5°	214.4	187.6	164.0	142.5	123.2	106.6	94.0	82.0	70.5	59.6	47.9
-85°	139.4	124.8	111.5	99.6	89.1	80.2	69.1	58.7	49.0	40.1	32.1
-87.5°	68.1	62.1	56.4	50.8	45.4	40.2	34.6	29.4	24.6	20.1	16.1
-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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REPORT NUMBER: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLXL200FSUNVDBZSF-150W-4000K

**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°	12.5	9.3	6.5	4.2	2.3	0.9	0.0
85°	24.9	18.5	12.9	8.3	4.6	1.8	0.0
82.5°	37.1	27.6	19.3	12.4	6.9	2.8	0.0
80°	48.8	36.5	25.6	16.5	9.2	3.7	0.0
77.5°	57.8	44.7	31.8	20.5	11.4	4.6	0.0
75°	66.5	51.4	37.6	24.4	13.6	5.4	0.0
72.5°	74.9	57.9	42.4	28.1	15.7	6.3	0.0
70°	83.3	64.2	47.1	31.7	17.7	7.1	0.0
67.5°	93.1	70.3	51.6	34.8	19.7	8.0	0.0
65°	102.5	77.0	55.9	37.8	21.6	8.7	0.0
62.5°	111.5	84.2	60.0	40.6	23.4	9.5	0.0
60°	120.1	91.1	63.9	43.3	25.1	10.2	0.0
57.5°	138.7	97.7	68.9	45.9	26.7	10.9	0.0
55°	157.3	103.9	73.7	48.2	28.2	11.6	0.0
52.5°	174.7	111.0	78.2	50.5	29.6	12.2	0.0
50°	190.6	123.7	82.5	52.5	30.9	12.8	0.0
47.5°	208.1	135.5	86.5	54.7	32.1	13.4	0.0
45°	241.3	146.1	90.1	57.4	33.2	13.9	0.0
42.5°	271.6	155.6	93.4	59.9	34.2	14.3	0.0
40°	299.1	164.0	98.4	62.1	35.1	14.8	0.0
37.5°	323.6	171.3	104.5	64.2	35.9	15.1	0.0
35°	345.1	185.7	109.9	66.0	36.6	15.5	0.0
32.5°	372.3	202.4	114.5	67.6	37.2	15.8	0.0
30°	415.6	216.9	118.4	69.0	37.7	16.0	0.0
27.5°	454.7	229.2	121.5	70.1	38.0	16.2	0.0
25°	489.7	239.4	123.8	71.0	38.3	16.4	0.0
22.5°	520.5	247.5	125.5	71.7	38.5	16.5	0.0
20°	546.9	253.6	126.4	72.2	38.5	16.6	0.0
17.5°	569.0	257.7	126.7	72.4	38.5	16.6	0.0
15°	586.7	259.8	126.4	72.4	38.3	16.6	0.0
12.5°	600.0	260.2	125.4	72.1	38.1	16.6	0.0
10°	609.0	258.7	123.9	71.7	37.7	16.5	0.0
7.5°	613.5	255.6	121.9	71.1	37.3	16.4	0.0
5°	613.7	251.0	119.4	70.2	36.8	16.2	0.0
2.5°	609.5	244.9	116.4	69.1	36.2	16.0	0.0
0°	601.0	237.5	113.1	67.9	35.5	15.8	0.0
-2.5°	609.5	244.9	116.4	69.1	36.2	16.0	0.0
-5°	613.7	251.0	119.4	70.2	36.8	16.2	0.0
-7.5°	613.5	255.6	121.9	71.1	37.3	16.4	0.0
-10°	609.0	258.7	123.9	71.7	37.7	16.5	0.0
-12.5°	600.0	260.2	125.4	72.1	38.1	16.6	0.0
-15°	586.7	259.8	126.4	72.4	38.3	16.6	0.0
-17.5°	569.0	257.7	126.7	72.4	38.5	16.6	0.0
-20°	546.9	253.6	126.4	72.2	38.5	16.6	0.0

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REPORT NUMBER: P670576 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	520.5	247.5	125.5	71.7	38.5	16.5	0.0
-25°	489.7	239.4	123.8	71.0	38.3	16.4	0.0
-27.5°	454.7	229.2	121.5	70.1	38.0	16.2	0.0
-30°	415.6	216.9	118.4	69.0	37.7	16.0	0.0
-32.5°	372.3	202.4	114.5	67.6	37.2	15.8	0.0
-35°	345.1	185.7	109.9	66.0	36.6	15.5	0.0
-37.5°	323.6	171.3	104.5	64.2	35.9	15.1	0.0
-40°	299.1	164.0	98.4	62.1	35.1	14.8	0.0
-42.5°	271.6	155.6	93.4	59.9	34.2	14.3	0.0
-45°	241.3	146.1	90.1	57.4	33.2	13.9	0.0
-47.5°	208.1	135.5	86.5	54.7	32.1	13.4	0.0
-50°	190.6	123.7	82.5	52.5	30.9	12.8	0.0
-52.5°	174.7	111.0	78.2	50.5	29.6	12.2	0.0
-55°	157.3	103.9	73.7	48.2	28.2	11.6	0.0
-57.5°	138.7	97.7	68.9	45.9	26.7	10.9	0.0
-60°	120.1	91.1	63.9	43.3	25.1	10.2	0.0
-62.5°	111.5	84.2	60.0	40.6	23.4	9.5	0.0
-65°	102.5	77.0	55.9	37.8	21.6	8.7	0.0
-67.5°	93.1	70.3	51.6	34.8	19.7	8.0	0.0
-70°	83.3	64.2	47.1	31.7	17.7	7.1	0.0
-72.5°	74.9	57.9	42.4	28.1	15.7	6.3	0.0
-75°	66.5	51.4	37.6	24.4	13.6	5.4	0.0
-77.5°	57.8	44.7	31.8	20.5	11.4	4.6	0.0
-80°	48.8	36.5	25.6	16.5	9.2	3.7	0.0
-82.5°	37.1	27.6	19.3	12.4	6.9	2.8	0.0
-85°	24.9	18.5	12.9	8.3	4.6	1.8	0.0
-87.5°	12.5	9.3	6.5	4.2	2.3	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)