

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



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4D-722-U-WR-XX**

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-766-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/7/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4D-722-U-WR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, WIDE SYMMETRICAL ROUND N86  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

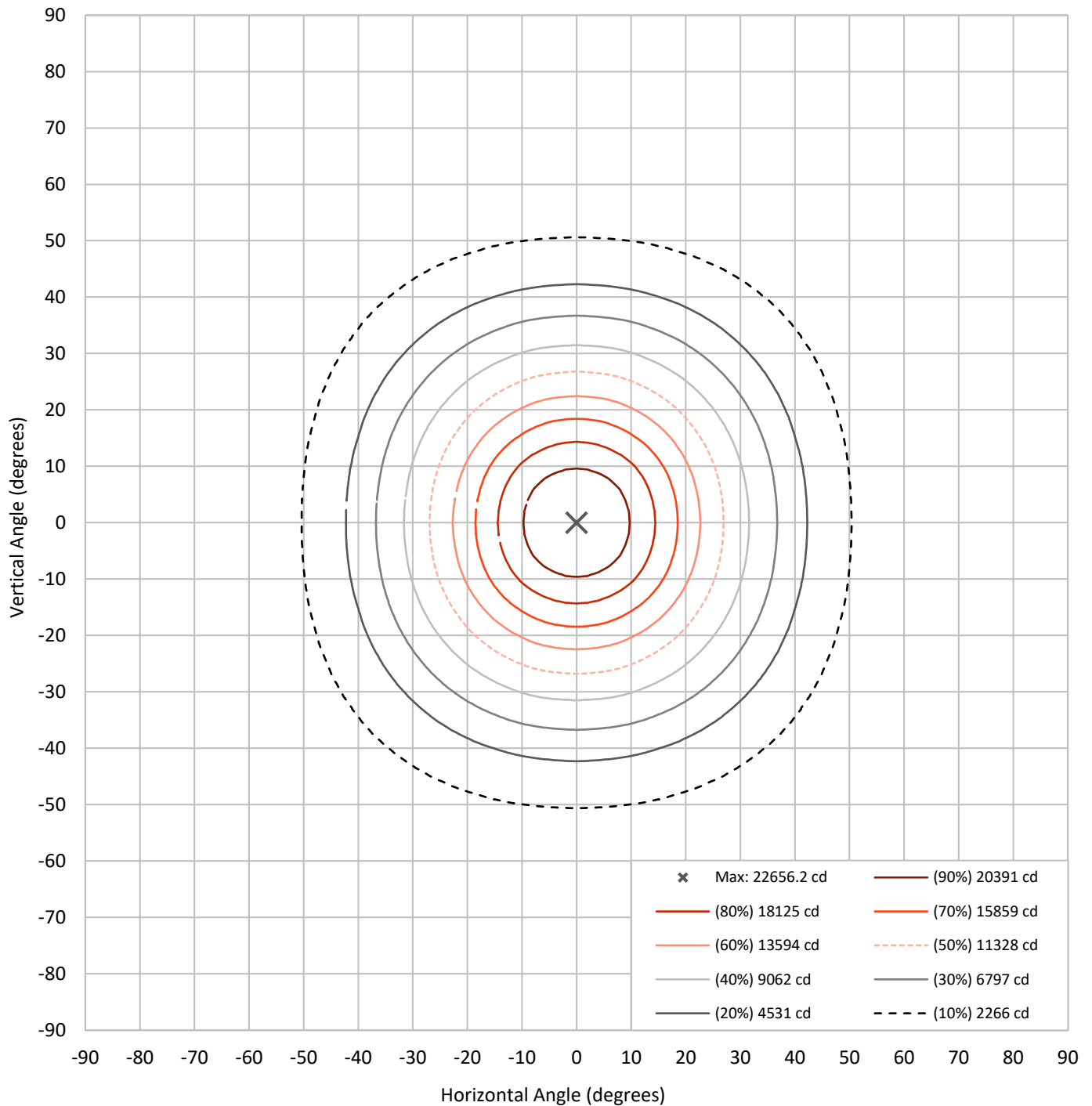
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	23058.7 lumens	Max Intensity:	22656.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	53.8°H x 53.6°V	Field Angle (10%):	100.8°H x 101.2°V
Beam Lumens:	11025.3 lumens	Field Lumens:	20350.1 lumens
Beam Efficiency:	47.8%	Field Efficiency:	88.3%
Input Watts (W):	221.4		
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





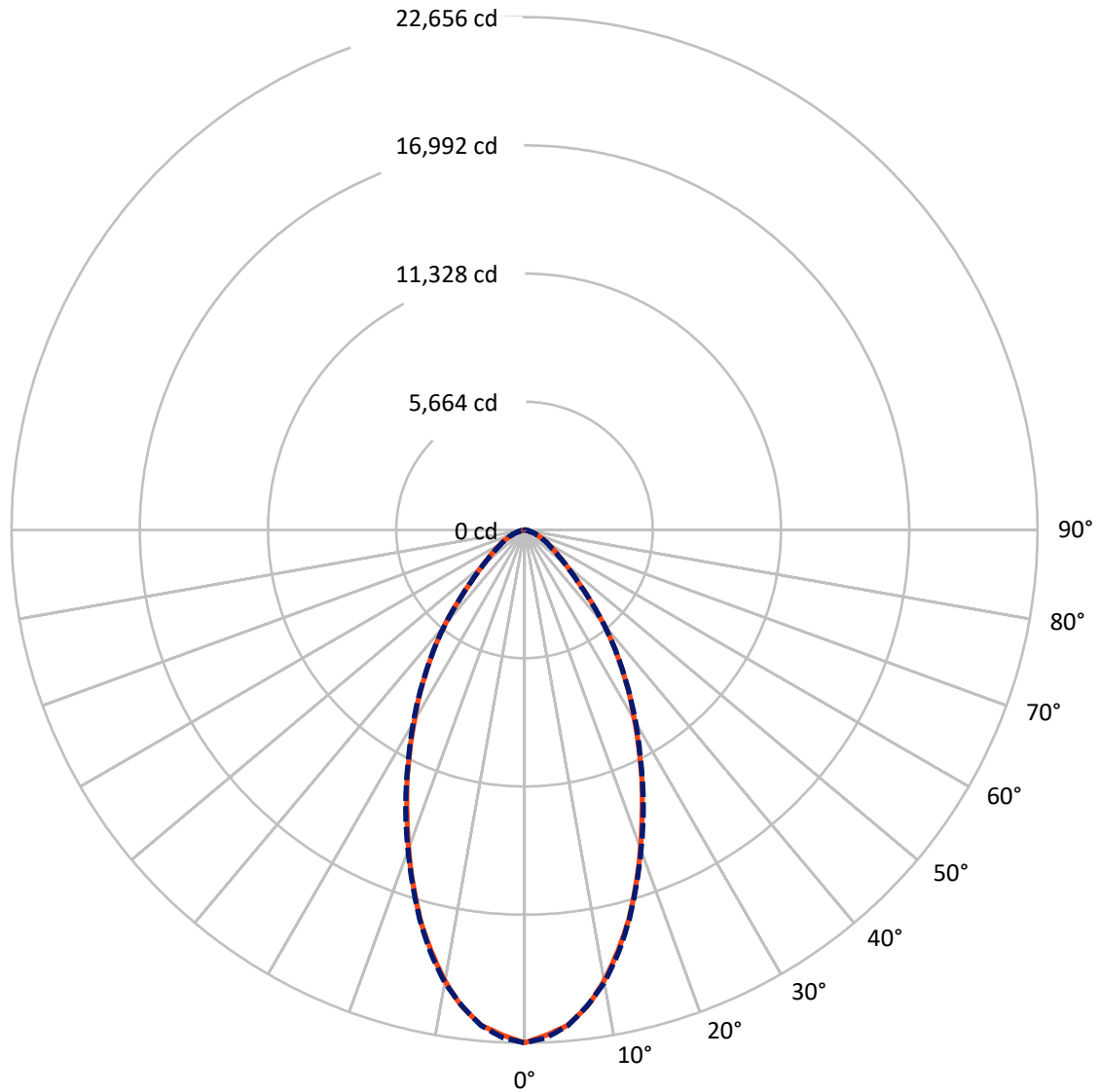
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### Lumen Table

90																			
80	0.9	6.4		14.5		24.1		20.7		24.1		14.5		6.4		0.9			
70																			
60	3.0	3.5	6.6	10.6	15.4	20.0	23.4	25.1	25.1	23.4	20.0	15.4	10.6	6.6	3.5	3.0			
50		5.0	10.0	17.3	26.5	36.5	45.5	50.8	50.8	45.5	36.5	26.5	17.3	10.0	5.0				
40	4.4	6.4	13.8	25.8	43.5	66.9	92.3	109.2	109.2	92.3	66.9	43.5	25.8	13.8	6.4	4.4			
30		7.7	18.1	37.5	73.1	129.8	188.5	223.6	223.6	188.5	129.8	73.1	37.5	18.1	7.7				
20	5.2	9.0	22.6	52.6	118.1	212.4	303.9	363.2	363.2	303.9	212.4	118.1	52.6	22.6	9.0	5.2			
10		10.0	26.5	68.2	161.2	286.8	423.4	520.9	520.9	423.4	286.8	161.2	68.2	26.5	10.0				
0	5.5	10.5	28.7	78.3	185.6	333.4	507.4	638.0	638.0	507.4	333.4	185.6	78.3	28.7	10.5	5.5			
-10		10.5	28.7	78.3	185.6	333.4	507.4	638.0	638.0	507.4	333.4	185.6	78.3	28.7	10.5				
-20	5.2	10.0	26.5	68.2	161.2	286.8	423.4	520.9	520.9	423.4	286.8	161.2	68.2	26.5	10.0	5.2			
-30		9.0	22.6	52.6	118.1	212.4	303.9	363.2	363.2	303.9	212.4	118.1	52.6	22.6	9.0				
-40	4.4	7.7	18.1	37.5	73.1	129.8	188.5	223.6	223.6	188.5	129.8	73.1	37.5	18.1	7.7	4.4			
-50		6.4	13.8	25.8	43.5	66.9	92.3	109.2	109.2	92.3	66.9	43.5	25.8	13.8	6.4				
-60	3.0	5.0	10.0	17.3	26.5	36.5	45.5	50.8	50.8	45.5	36.5	26.5	17.3	10.0	5.0	3.0			
-70		3.5	6.6	10.6	15.4	20.0	23.4	25.1	25.1	23.4	20.0	15.4	10.6	6.6	3.5				
-80																			
-90	0.9	6.4		14.5		24.1		20.7		24.1		14.5		6.4		0.9			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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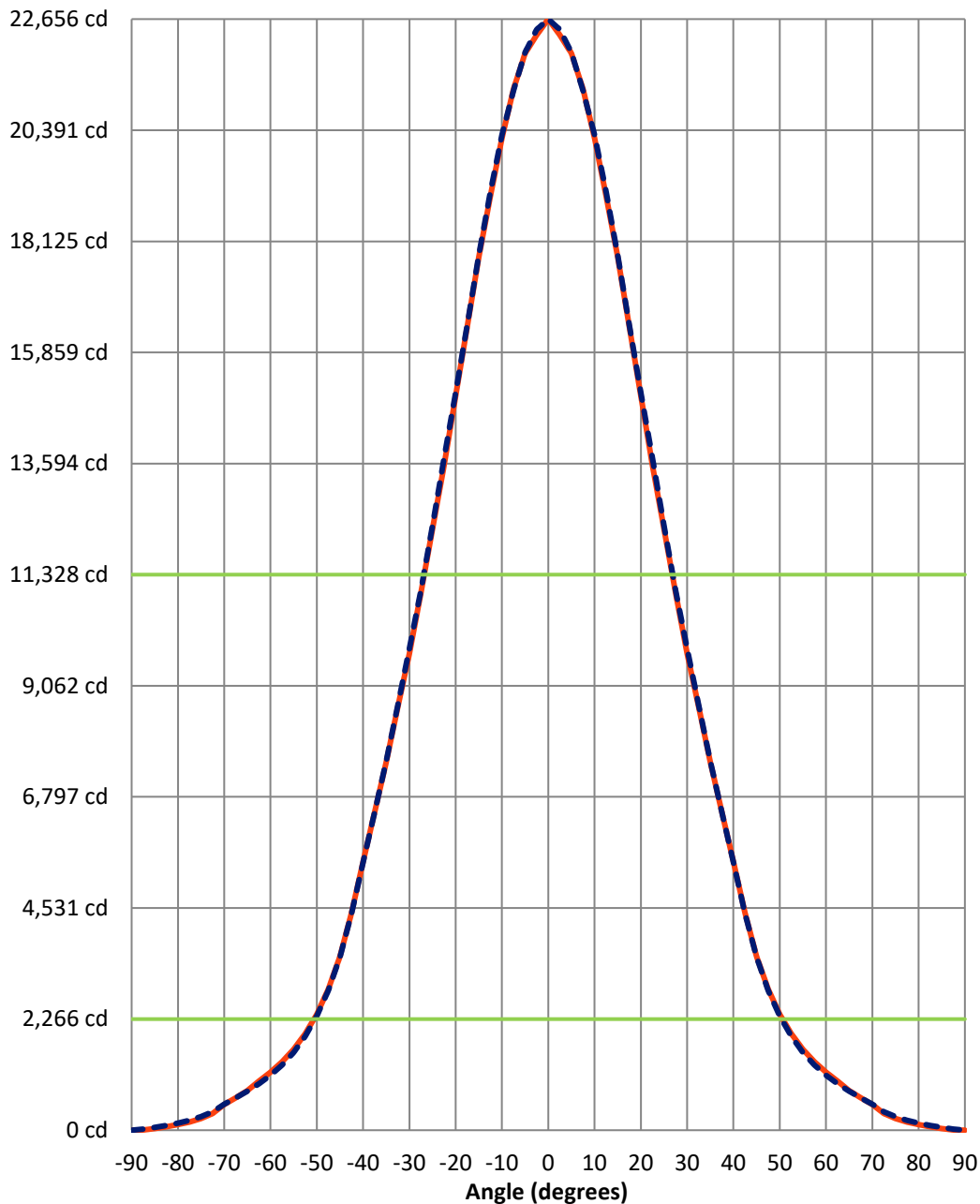
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 53.8°  
 V Angle: 53.6°  
 Lumens: 11025.3  
 Efficiency: 47.8%

**Field:**  
 H Angle: 100.8°  
 V Angle: 101.2°  
 Lumens: 20350.1  
 Efficiency: 88.3%

**Spill:**  
 Lumens: 2708.6  
 Efficiency: 11.7%

- Vertical Distribution through 0-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	1.2	2.6	4.3	6.2	8.4	10.8	11.9	12.9	13.6	14.2
85°	0.0	2.3	5.3	8.6	12.5	16.8	21.5	23.8	25.7	27.3	28.4
82.5°	0.0	3.4	7.9	12.9	18.7	25.0	32.1	35.7	39.4	45.7	51.2
80°	0.0	4.6	10.5	17.2	24.8	33.3	43.6	54.2	63.4	71.7	79.0
77.5°	0.0	5.7	13.1	21.4	30.8	43.3	62.3	76.0	87.5	97.7	107.9
75°	0.0	6.8	15.6	25.5	37.3	56.6	80.4	97.7	111.5	125.4	140.3
72.5°	0.0	7.9	18.0	29.5	46.2	69.5	98.0	119.0	135.6	153.3	172.2
70°	0.0	8.9	20.4	33.7	54.8	81.9	114.6	139.1	159.2	180.7	206.1
67.5°	0.0	10.0	22.8	39.0	63.1	93.7	129.1	158.8	182.4	209.2	239.5
65°	0.0	11.0	25.0	44.0	70.9	104.6	142.8	178.1	205.3	236.5	271.2
62.5°	0.0	12.0	27.2	48.8	78.3	114.5	155.8	196.3	227.3	262.8	300.7
60°	0.0	12.9	29.3	53.3	85.2	123.9	167.9	213.6	248.3	288.2	329.3
57.5°	0.0	13.8	31.8	57.5	91.6	132.6	178.9	229.2	269.5	312.7	355.6
55°	0.0	14.7	34.3	61.3	97.5	140.6	189.1	241.7	290.3	336.2	380.7
52.5°	0.0	15.6	36.7	64.9	103.0	147.9	198.4	255.2	310.2	358.6	405.3
50°	0.0	16.4	38.9	68.1	108.0	154.6	206.8	267.9	329.4	380.4	432.3
47.5°	0.0	17.1	41.1	71.0	112.4	160.7	214.6	279.5	348.4	401.7	458.9
45°	0.0	17.8	43.1	73.9	116.3	166.1	223.4	289.9	362.0	424.7	484.5
42.5°	0.0	18.5	45.0	76.4	119.7	170.8	231.2	300.1	374.4	446.8	511.1
40°	0.0	19.1	46.8	79.2	122.8	174.7	238.1	309.9	386.7	467.5	536.8
37.5°	0.0	19.7	48.5	82.1	125.5	178.0	244.0	318.9	400.2	483.7	561.1
35°	0.0	20.2	50.1	84.7	127.7	181.6	248.9	326.8	413.1	501.6	586.1
32.5°	0.0	20.7	51.5	87.1	129.4	185.0	253.4	333.8	425.4	519.8	611.5
30°	0.0	21.1	52.8	89.3	130.5	187.7	258.3	340.6	437.1	538.1	635.5
27.5°	0.0	21.5	53.9	91.2	133.3	189.6	262.4	349.0	449.2	556.5	658.0
25°	0.0	21.8	55.0	92.8	136.0	190.8	265.6	356.6	462.8	574.5	679.0
22.5°	0.0	22.1	55.8	94.2	138.4	192.3	267.8	363.2	475.7	591.0	702.0
20°	0.0	22.3	56.6	95.4	140.4	195.8	269.1	368.9	487.9	605.9	722.6
17.5°	0.0	22.5	57.2	96.3	142.1	198.7	272.1	373.4	499.1	619.0	740.7
15°	0.0	22.6	57.7	97.0	143.5	200.9	275.7	377.7	509.2	630.3	756.2
12.5°	0.0	22.7	58.0	97.5	144.5	202.6	278.3	381.6	517.8	639.7	769.2
10°	0.0	22.7	58.2	97.7	145.1	203.6	280.0	383.7	524.4	647.6	779.7
7.5°	0.0	22.7	58.3	97.6	145.4	204.0	280.6	384.2	529.1	653.7	787.8
5°	0.0	22.7	58.2	97.3	145.3	203.9	280.4	383.0	531.7	657.8	793.2
2.5°	0.0	22.6	58.0	96.8	144.9	203.1	279.1	380.4	532.0	659.9	795.9
0°	0.0	22.4	57.6	96.1	144.1	201.8	277.0	376.3	530.0	659.7	795.8
-2.5°	0.0	22.6	58.0	96.8	144.9	203.1	279.1	380.4	532.0	659.9	795.9
-5°	0.0	22.7	58.2	97.3	145.3	203.9	280.4	383.0	531.7	657.8	793.2
-7.5°	0.0	22.7	58.3	97.6	145.4	204.0	280.6	384.2	529.1	653.7	787.8
-10°	0.0	22.7	58.2	97.7	145.1	203.6	280.0	383.7	524.4	647.6	779.7
-12.5°	0.0	22.7	58.0	97.5	144.5	202.6	278.3	381.6	517.8	639.7	769.2
-15°	0.0	22.6	57.7	97.0	143.5	200.9	275.7	377.7	509.2	630.3	756.2
-17.5°	0.0	22.5	57.2	96.3	142.1	198.7	272.1	373.4	499.1	619.0	740.7
-20°	0.0	22.3	56.6	95.4	140.4	195.8	269.1	368.9	487.9	605.9	722.6

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Scaled Data Report



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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	22.1	55.8	94.2	138.4	192.3	267.8	363.2	475.7	591.0	702.0
-25°	0.0	21.8	55.0	92.8	136.0	190.8	265.6	356.6	462.8	574.5	679.0
-27.5°	0.0	21.5	53.9	91.2	133.3	189.6	262.4	349.0	449.2	556.5	658.0
-30°	0.0	21.1	52.8	89.3	130.5	187.7	258.3	340.6	437.1	538.1	635.5
-32.5°	0.0	20.7	51.5	87.1	129.4	185.0	253.4	333.8	425.4	519.8	611.5
-35°	0.0	20.2	50.1	84.7	127.7	181.6	248.9	326.8	413.1	501.6	586.1
-37.5°	0.0	19.7	48.5	82.1	125.5	178.0	244.0	318.9	400.2	483.7	561.1
-40°	0.0	19.1	46.8	79.2	122.8	174.7	238.1	309.9	386.7	467.5	536.8
-42.5°	0.0	18.5	45.0	76.4	119.7	170.8	231.2	300.1	374.4	446.8	511.1
-45°	0.0	17.8	43.1	73.9	116.3	166.1	223.4	289.9	362.0	424.7	484.5
-47.5°	0.0	17.1	41.1	71.0	112.4	160.7	214.6	279.5	348.4	401.7	458.9
-50°	0.0	16.4	38.9	68.1	108.0	154.6	206.8	267.9	329.4	380.4	432.3
-52.5°	0.0	15.6	36.7	64.9	103.0	147.9	198.4	255.2	310.2	358.6	405.3
-55°	0.0	14.7	34.3	61.3	97.5	140.6	189.1	241.7	290.3	336.2	380.7
-57.5°	0.0	13.8	31.8	57.5	91.6	132.6	178.9	229.2	269.5	312.7	355.6
-60°	0.0	12.9	29.3	53.3	85.2	123.9	167.9	213.6	248.3	288.2	329.3
-62.5°	0.0	12.0	27.2	48.8	78.3	114.5	155.8	196.3	227.3	262.8	300.7
-65°	0.0	11.0	25.0	44.0	70.9	104.6	142.8	178.1	205.3	236.5	271.2
-67.5°	0.0	10.0	22.8	39.0	63.1	93.7	129.1	158.8	182.4	209.2	239.5
-70°	0.0	8.9	20.4	33.7	54.8	81.9	114.6	139.1	159.2	180.7	206.1
-72.5°	0.0	7.9	18.0	29.5	46.2	69.5	98.0	119.0	135.6	153.3	172.2
-75°	0.0	6.8	15.6	25.5	37.3	56.6	80.4	97.7	111.5	125.4	140.3
-77.5°	0.0	5.7	13.1	21.4	30.8	43.3	62.3	76.0	87.5	97.7	107.9
-80°	0.0	4.6	10.5	17.2	24.8	33.3	43.6	54.2	63.4	71.7	79.0
-82.5°	0.0	3.4	7.9	12.9	18.7	25.0	32.1	35.7	39.4	45.7	51.2
-85°	0.0	2.3	5.3	8.6	12.5	16.8	21.5	23.8	25.7	27.3	28.4
-87.5°	0.0	1.2	2.6	4.3	6.2	8.4	10.8	11.9	12.9	13.6	14.2
-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°	14.4	14.4	14.2	13.8	13.2	12.4	11.4	10.2	10.6	11.0	11.4
85°	28.9	28.9	31.2	33.5	34.5	34.6	33.9	32.5	36.7	41.5	46.7
82.5°	56.4	61.3	65.9	70.2	70.7	69.5	67.4	64.9	73.4	83.8	94.7
80°	86.4	93.6	101.9	109.7	111.5	110.7	108.3	104.4	115.7	131.6	148.9
77.5°	119.9	131.4	142.0	151.8	154.7	154.3	152.4	149.3	163.6	185.8	208.8
75°	155.2	169.1	182.9	194.9	200.1	200.5	199.9	203.3	222.2	248.1	270.9
72.5°	192.1	209.7	225.2	238.5	246.8	253.1	261.5	271.8	290.9	316.3	338.7
70°	231.0	250.6	267.0	281.7	294.4	308.2	326.0	343.5	363.7	389.1	412.3
67.5°	269.5	289.4	307.8	325.9	349.0	371.2	393.3	416.2	441.6	468.3	491.8
65°	305.1	327.6	350.1	376.4	406.5	431.6	458.8	488.7	521.9	551.9	579.2
62.5°	339.3	364.6	392.5	424.2	456.8	488.3	524.8	563.2	602.0	639.7	677.0
60°	368.2	399.7	433.5	469.4	507.0	549.9	592.6	638.3	684.7	730.0	776.2
57.5°	395.9	434.9	473.9	515.7	562.6	611.6	662.9	714.3	769.8	824.6	877.0
55°	424.7	470.7	515.0	564.6	618.3	675.8	733.8	796.2	857.4	926.4	990.1
52.5°	455.5	505.5	557.6	614.3	677.1	741.9	809.9	881.4	957.7	1034.4	1112.2
50°	485.6	541.9	599.9	667.8	737.9	812.0	890.5	973.8	1062.6	1151.4	1245.5
47.5°	517.0	577.1	647.9	721.6	802.0	886.3	975.2	1074.2	1172.9	1284.7	1392.8
45°	548.0	617.1	693.9	779.6	867.8	962.7	1068.5	1177.2	1303.2	1429.5	1571.5
42.5°	577.7	657.4	744.1	835.6	936.1	1045.2	1162.2	1299.0	1441.0	1597.4	1764.0
40°	611.8	695.9	793.6	895.9	1004.7	1129.4	1270.3	1422.2	1595.4	1780.7	1969.9
37.5°	644.9	739.4	842.4	953.4	1079.7	1220.2	1375.7	1561.8	1761.7	1972.4	2229.8
35°	676.0	780.8	892.7	1014.3	1151.1	1313.9	1499.9	1705.6	1935.9	2207.5	2507.9
32.5°	708.9	819.9	940.2	1076.6	1231.4	1409.3	1620.5	1862.7	2135.3	2444.5	2820.4
30°	742.2	860.2	987.3	1134.9	1307.2	1513.0	1753.1	2020.7	2334.2	2722.2	3163.4
27.5°	772.9	898.0	1037.1	1196.7	1380.9	1608.6	1880.4	2194.1	2563.5	3001.9	3517.3
25°	801.2	932.3	1082.9	1255.6	1462.1	1711.9	2006.6	2353.9	2792.9	3315.6	3949.7
22.5°	828.1	963.6	1124.3	1308.6	1535.3	1811.9	2143.5	2541.0	3026.2	3612.9	4373.3
20°	853.3	997.4	1165.3	1359.2	1600.7	1902.1	2269.4	2715.6	3267.8	3962.3	4788.7
17.5°	875.5	1027.2	1204.2	1414.0	1673.6	1993.8	2388.1	2869.8	3482.8	4274.4	5172.1
15°	894.6	1052.9	1237.9	1461.4	1739.3	2085.0	2512.8	3038.9	3707.1	4558.1	5508.6
12.5°	910.5	1074.4	1266.1	1501.3	1794.4	2162.1	2619.2	3189.5	3925.6	4825.4	5804.1
10°	923.1	1091.6	1288.9	1533.5	1838.9	2224.6	2706.9	3312.8	4107.4	5054.6	6054.0
7.5°	933.7	1105.1	1306.3	1558.0	1872.6	2272.4	2775.2	3407.9	4249.5	5236.0	6245.8
5°	941.2	1114.8	1319.5	1575.0	1897.2	2305.8	2822.9	3474.4	4350.6	5367.4	6377.0
2.5°	945.4	1120.1	1327.1	1584.1	1912.4	2324.6	2847.9	3516.2	4406.2	5442.5	6456.3
0°	946.3	1120.9	1329.0	1585.2	1916.7	2328.2	2851.8	3529.2	4417.9	5461.9	6485.1
-2.5°	945.4	1120.1	1327.1	1584.1	1912.4	2324.6	2847.9	3516.2	4406.2	5442.5	6456.3
-5°	941.2	1114.8	1319.5	1575.0	1897.2	2305.8	2822.9	3474.4	4350.6	5367.4	6377.0
-7.5°	933.7	1105.1	1306.3	1558.0	1872.6	2272.4	2775.2	3407.9	4249.5	5236.0	6245.8
-10°	923.1	1091.6	1288.9	1533.5	1838.9	2224.6	2706.9	3312.8	4107.4	5054.6	6054.0
-12.5°	910.5	1074.4	1266.1	1501.3	1794.4	2162.1	2619.2	3189.5	3925.6	4825.4	5804.1
-15°	894.6	1052.9	1237.9	1461.4	1739.3	2085.0	2512.8	3038.9	3707.1	4558.1	5508.6
-17.5°	875.5	1027.2	1204.2	1414.0	1673.6	1993.8	2388.1	2869.8	3482.8	4274.4	5172.1
-20°	853.3	997.4	1165.3	1359.2	1600.7	1902.1	2269.4	2715.6	3267.8	3962.3	4788.7

Classified

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

Scaled Data Report



REPORT NUMBER: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	828.1	963.6	1124.3	1308.6	1535.3	1811.9	2143.5	2541.0	3026.2	3612.9	4373.3
-25°	801.2	932.3	1082.9	1255.6	1462.1	1711.9	2006.6	2353.9	2792.9	3315.6	3949.7
-27.5°	772.9	898.0	1037.1	1196.7	1380.9	1608.6	1880.4	2194.1	2563.5	3001.9	3517.3
-30°	742.2	860.2	987.3	1134.9	1307.2	1513.0	1753.1	2020.7	2334.2	2722.2	3163.4
-32.5°	708.9	819.9	940.2	1076.6	1231.4	1409.3	1620.5	1862.7	2135.3	2444.5	2820.4
-35°	676.0	780.8	892.7	1014.3	1151.1	1313.9	1499.9	1705.6	1935.9	2207.5	2507.9
-37.5°	644.9	739.4	842.4	953.4	1079.7	1220.2	1375.7	1561.8	1761.7	1972.4	2229.8
-40°	611.8	695.9	793.6	895.9	1004.7	1129.4	1270.3	1422.2	1595.4	1780.7	1969.9
-42.5°	577.7	657.4	744.1	835.6	936.1	1045.2	1162.2	1299.0	1441.0	1597.4	1764.0
-45°	548.0	617.1	693.9	779.6	867.8	962.7	1068.5	1177.2	1303.2	1429.5	1571.5
-47.5°	517.0	577.1	647.9	721.6	802.0	886.3	975.2	1074.2	1172.9	1284.7	1392.8
-50°	485.6	541.9	599.9	667.8	737.9	812.0	890.5	973.8	1062.6	1151.4	1245.5
-52.5°	455.5	505.5	557.6	614.3	677.1	741.9	809.9	881.4	957.7	1034.4	1112.2
-55°	424.7	470.7	515.0	564.6	618.3	675.8	733.8	796.2	857.4	926.4	990.1
-57.5°	395.9	434.9	473.9	515.7	562.6	611.6	662.9	714.3	769.8	824.6	877.0
-60°	368.2	399.7	433.5	469.4	507.0	549.9	592.6	638.3	684.7	730.0	776.2
-62.5°	339.3	364.6	392.5	424.2	456.8	488.3	524.8	563.2	602.0	639.7	677.0
-65°	305.1	327.6	350.1	376.4	406.5	431.6	458.8	488.7	521.9	551.9	579.2
-67.5°	269.5	289.4	307.8	325.9	349.0	371.2	393.3	416.2	441.6	468.3	491.8
-70°	231.0	250.6	267.0	281.7	294.4	308.2	326.0	343.5	363.7	389.1	412.3
-72.5°	192.1	209.7	225.2	238.5	246.8	253.1	261.5	271.8	290.9	316.3	338.7
-75°	155.2	169.1	182.9	194.9	200.1	200.5	199.9	203.3	222.2	248.1	270.9
-77.5°	119.9	131.4	142.0	151.8	154.7	154.3	152.4	149.3	163.6	185.8	208.8
-80°	86.4	93.6	101.9	109.7	111.5	110.7	108.3	104.4	115.7	131.6	148.9
-82.5°	56.4	61.3	65.9	70.2	70.7	69.5	67.4	64.9	73.4	83.8	94.7
-85°	28.9	28.9	31.2	33.5	34.5	34.6	33.9	32.5	36.7	41.5	46.7
-87.5°	14.4	14.4	14.2	13.8	13.2	12.4	11.4	10.2	10.6	11.0	11.4
-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: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**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°	11.8	11.5	11.1	10.6	10.2	10.0	9.8	9.5	9.3	8.6	7.9
85°	52.1	53.3	53.9	54.2	54.2	56.0	57.6	59.1	60.4	54.7	48.5
82.5°	105.9	110.9	115.2	119.6	123.8	126.8	129.0	130.6	131.7	119.2	105.2
80°	166.7	177.1	185.7	194.0	201.9	203.9	203.9	202.8	200.6	183.5	164.2
77.5°	231.8	245.5	256.3	267.1	277.6	281.5	283.4	284.9	285.8	264.7	238.7
75°	290.9	307.1	322.3	336.4	349.4	356.3	360.4	363.7	366.3	345.1	317.2
72.5°	358.2	375.5	391.9	407.6	421.3	430.5	436.4	441.4	445.2	433.1	415.7
70°	432.3	450.2	467.6	483.8	499.4	511.7	521.3	529.6	536.5	537.9	537.3
67.5°	514.6	535.7	556.3	574.0	592.6	609.9	625.1	637.8	647.9	654.5	658.3
65°	606.9	638.6	666.8	690.7	710.7	733.9	754.3	769.9	780.9	789.2	796.3
62.5°	715.7	754.1	786.4	818.2	851.1	883.1	903.0	923.1	942.7	961.2	976.9
60°	820.4	862.5	906.2	946.9	984.5	1019.2	1055.0	1086.8	1114.6	1137.9	1155.2
57.5°	932.0	983.2	1032.9	1084.5	1133.2	1178.5	1222.8	1263.7	1299.0	1328.8	1353.1
55°	1053.1	1115.7	1174.8	1240.4	1303.9	1361.9	1415.3	1470.0	1519.3	1562.7	1597.2
52.5°	1183.6	1265.1	1343.3	1420.3	1502.7	1577.1	1643.7	1719.6	1786.8	1842.4	1885.7
50°	1339.5	1435.3	1538.5	1634.0	1737.9	1840.3	1934.7	2026.1	2115.5	2192.9	2255.4
47.5°	1517.1	1634.9	1762.8	1889.4	2018.4	2158.3	2283.2	2399.3	2524.3	2632.8	2719.9
45°	1714.4	1864.7	2019.1	2196.9	2360.8	2540.6	2707.0	2856.5	3033.7	3189.9	3315.7
42.5°	1933.3	2133.6	2336.5	2560.6	2778.0	3006.2	3248.7	3463.7	3698.9	3923.1	4104.2
40°	2204.7	2444.0	2715.8	2987.0	3299.1	3592.2	3945.4	4266.3	4557.8	4825.2	5044.2
37.5°	2506.2	2814.3	3155.8	3509.0	3936.0	4354.5	4767.9	5158.2	5502.8	5795.4	6040.8
35°	2848.5	3240.0	3653.6	4169.3	4669.5	5170.8	5637.8	6064.4	6439.2	6769.3	7050.0
32.5°	3242.2	3712.1	4291.2	4870.5	5441.1	5993.0	6505.7	6971.0	7382.0	7752.7	8075.4
30°	3656.1	4297.3	4947.2	5582.8	6206.0	6810.5	7373.2	7885.7	8350.1	8762.7	9134.6
27.5°	4182.2	4892.7	5601.4	6286.5	6972.2	7633.8	8243.6	8812.9	9345.8	9812.1	10237.2
25°	4691.0	5475.9	6229.3	6976.3	7722.7	8433.0	9114.8	9757.8	10368.2	10903.4	11378.0
22.5°	5199.7	6021.3	6826.4	7629.6	8431.4	9223.2	9988.8	10725.5	11408.1	12017.5	12551.8
20°	5670.9	6529.7	7390.7	8256.6	9125.7	9992.4	10852.2	11681.3	12441.8	13145.4	13763.7
17.5°	6093.3	7006.7	7919.5	8845.7	9787.8	10728.8	11683.9	12613.4	13482.8	14283.3	15000.6
15°	6467.3	7420.5	8400.8	9400.3	10411.8	11433.8	12476.1	13516.0	14494.6	15403.9	16204.7
12.5°	6794.4	7785.3	8812.8	9874.7	10972.7	12086.0	13223.5	14363.4	15446.8	16496.6	17361.3
10°	7064.2	8095.6	9169.5	10285.3	11443.2	12641.5	13861.9	15088.9	16282.5	17396.1	18384.9
7.5°	7272.7	8342.6	9449.2	10609.8	11824.6	13088.2	14381.0	15683.1	16956.8	18156.8	19250.8
5°	7419.7	8522.4	9643.0	10850.2	12107.2	13416.7	14760.3	16117.2	17448.8	18710.5	19844.3
2.5°	7505.0	8630.4	9755.8	10996.3	12275.3	13615.5	14995.5	16374.6	17741.4	19050.0	20215.2
0°	7527.5	8662.8	9820.5	11011.9	12328.1	13708.4	15039.0	16422.5	17842.8	19133.5	20294.4
-2.5°	7505.0	8630.4	9755.8	10996.3	12275.3	13615.5	14995.5	16374.6	17741.4	19050.0	20215.2
-5°	7419.7	8522.4	9643.0	10850.2	12107.2	13416.7	14760.3	16117.2	17448.8	18710.5	19844.3
-7.5°	7272.7	8342.6	9449.2	10609.8	11824.6	13088.2	14381.0	15683.1	16956.8	18156.8	19250.8
-10°	7064.2	8095.6	9169.5	10285.3	11443.2	12641.5	13861.9	15088.9	16282.5	17396.1	18384.9
-12.5°	6794.4	7785.3	8812.8	9874.7	10972.7	12086.0	13223.5	14363.4	15446.8	16496.6	17361.3
-15°	6467.3	7420.5	8400.8	9400.3	10411.8	11433.8	12476.1	13516.0	14494.6	15403.9	16204.7
-17.5°	6093.3	7006.7	7919.5	8845.7	9787.8	10728.8	11683.9	12613.4	13482.8	14283.3	15000.6
-20°	5670.9	6529.7	7390.7	8256.6	9125.7	9992.4	10852.2	11681.3	12441.8	13145.4	13763.7



REPORT NUMBER: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5199.7	6021.3	6826.4	7629.6	8431.4	9223.2	9988.8	10725.5	11408.1	12017.5	12551.8
-25°	4691.0	5475.9	6229.3	6976.3	7722.7	8433.0	9114.8	9757.8	10368.2	10903.4	11378.0
-27.5°	4182.2	4892.7	5601.4	6286.5	6972.2	7633.8	8243.6	8812.9	9345.8	9812.1	10237.2
-30°	3656.1	4297.3	4947.2	5582.8	6206.0	6810.5	7373.2	7885.7	8350.1	8762.7	9134.6
-32.5°	3242.2	3712.1	4291.2	4870.5	5441.1	5993.0	6505.7	6971.0	7382.0	7752.7	8075.4
-35°	2848.5	3240.0	3653.6	4169.3	4669.5	5170.8	5637.8	6064.4	6439.2	6769.3	7050.0
-37.5°	2506.2	2814.3	3155.8	3509.0	3936.0	4354.5	4767.9	5158.2	5502.8	5795.4	6040.8
-40°	2204.7	2444.0	2715.8	2987.0	3299.1	3592.2	3945.4	4266.3	4557.8	4825.2	5044.2
-42.5°	1933.3	2133.6	2336.5	2560.6	2778.0	3006.2	3248.7	3463.7	3698.9	3923.1	4104.2
-45°	1714.4	1864.7	2019.1	2196.9	2360.8	2540.6	2707.0	2856.5	3033.7	3189.9	3315.7
-47.5°	1517.1	1634.9	1762.8	1889.4	2018.4	2158.3	2283.2	2399.3	2524.3	2632.8	2719.9
-50°	1339.5	1435.3	1538.5	1634.0	1737.9	1840.3	1934.7	2026.1	2115.5	2192.9	2255.4
-52.5°	1183.6	1265.1	1343.3	1420.3	1502.7	1577.1	1643.7	1719.6	1786.8	1842.4	1885.7
-55°	1053.1	1115.7	1174.8	1240.4	1303.9	1361.9	1415.3	1470.0	1519.3	1562.7	1597.2
-57.5°	932.0	983.2	1032.9	1084.5	1133.2	1178.5	1222.8	1263.7	1299.0	1328.8	1353.1
-60°	820.4	862.5	906.2	946.9	984.5	1019.2	1055.0	1086.8	1114.6	1137.9	1155.2
-62.5°	715.7	754.1	786.4	818.2	851.1	883.1	903.0	923.1	942.7	961.2	976.9
-65°	606.9	638.6	666.8	690.7	710.7	733.9	754.3	769.9	780.9	789.2	796.3
-67.5°	514.6	535.7	556.3	574.0	592.6	609.9	625.1	637.8	647.9	654.5	658.3
-70°	432.3	450.2	467.6	483.8	499.4	511.7	521.3	529.6	536.5	537.9	537.3
-72.5°	358.2	375.5	391.9	407.6	421.3	430.5	436.4	441.4	445.2	433.1	415.7
-75°	290.9	307.1	322.3	336.4	349.4	356.3	360.4	363.7	366.3	345.1	317.2
-77.5°	231.8	245.5	256.3	267.1	277.6	281.5	283.4	284.9	285.8	264.7	238.7
-80°	166.7	177.1	185.7	194.0	201.9	203.9	203.9	202.8	200.6	183.5	164.2
-82.5°	105.9	110.9	115.2	119.6	123.8	126.8	129.0	130.6	131.7	119.2	105.2
-85°	52.1	53.3	53.9	54.2	54.2	56.0	57.6	59.1	60.4	54.7	48.5
-87.5°	11.8	11.5	11.1	10.6	10.2	10.0	9.8	9.5	9.3	8.6	7.9
-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: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**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°	7.1	6.4	5.6	4.8	5.6	6.4	7.1	7.9	8.6	9.3	9.5
85°	41.9	35.0	34.3	33.6	34.3	35.0	41.9	48.5	54.7	60.4	59.1
82.5°	90.4	75.1	72.8	70.5	72.8	75.1	90.4	105.2	119.2	131.7	130.6
80°	144.1	123.2	119.2	115.3	119.2	123.2	144.1	164.2	183.5	200.6	202.8
77.5°	211.3	182.8	174.4	166.5	174.4	182.8	211.3	238.7	264.7	285.8	284.9
75°	288.2	258.2	248.1	238.6	248.1	258.2	288.2	317.2	345.1	366.3	363.7
72.5°	398.0	379.7	361.3	341.1	361.3	379.7	398.0	415.7	433.1	445.2	441.4
70°	536.7	535.4	530.8	523.6	530.8	535.4	536.7	537.3	537.9	536.5	529.6
67.5°	659.9	659.4	661.0	661.3	661.0	659.4	659.9	658.3	654.5	647.9	637.8
65°	800.7	802.2	805.5	807.0	805.5	802.2	800.7	796.3	789.2	780.9	769.9
62.5°	989.1	997.2	1001.3	1000.8	1001.3	997.2	989.1	976.9	961.2	942.7	923.1
60°	1168.1	1176.6	1181.9	1183.3	1181.9	1176.6	1168.1	1155.2	1137.9	1114.6	1086.8
57.5°	1372.3	1386.3	1393.6	1394.7	1393.6	1386.3	1372.3	1353.1	1328.8	1299.0	1263.7
55°	1623.6	1642.0	1650.2	1649.3	1650.2	1642.0	1623.6	1597.2	1562.7	1519.3	1470.0
52.5°	1918.4	1940.9	1957.7	1967.9	1957.7	1940.9	1918.4	1885.7	1842.4	1786.8	1719.6
50°	2302.4	2334.7	2355.1	2363.5	2355.1	2334.7	2302.4	2255.4	2192.9	2115.5	2026.1
47.5°	2782.8	2825.5	2857.1	2879.1	2857.1	2825.5	2782.8	2719.9	2632.8	2524.3	2399.3
45°	3408.5	3473.6	3517.8	3543.6	3517.8	3473.6	3408.5	3315.7	3189.9	3033.7	2856.5
42.5°	4245.7	4346.7	4408.6	4432.3	4408.6	4346.7	4245.7	4104.2	3923.1	3698.9	3463.7
40°	5217.2	5338.6	5418.1	5473.1	5418.1	5338.6	5217.2	5044.2	4825.2	4557.8	4266.3
37.5°	6229.2	6356.6	6434.1	6486.7	6434.1	6356.6	6229.2	6040.8	5795.4	5502.8	5158.2
35°	7261.6	7394.9	7467.6	7508.3	7467.6	7394.9	7261.6	7050.0	6769.3	6439.2	6064.4
32.5°	8321.5	8468.4	8547.5	8629.2	8547.5	8468.4	8321.5	8075.4	7752.7	7382.0	6971.0
30°	9428.4	9597.0	9679.7	9719.6	9679.7	9597.0	9428.4	9134.6	8762.7	8350.1	7885.7
27.5°	10580.3	10790.5	10894.0	10962.2	10894.0	10790.5	10580.3	10237.2	9812.1	9345.8	8812.9
25°	11778.8	12039.3	12157.9	12264.0	12157.9	12039.3	11778.8	11378.0	10903.4	10368.2	9757.8
22.5°	13022.3	13346.7	13484.1	13559.5	13484.1	13346.7	13022.3	12551.8	12017.5	11408.1	10725.5
20°	14298.3	14685.9	14876.8	14975.0	14876.8	14685.9	14298.3	13763.7	13145.4	12441.8	11681.3
17.5°	15603.1	16085.3	16332.2	16388.9	16332.2	16085.3	15603.1	15000.6	14283.3	13482.8	12613.4
15°	16884.0	17405.5	17697.5	17804.4	17697.5	17405.5	16884.0	16204.7	15403.9	14494.6	13516.0
12.5°	18097.1	18637.6	18986.5	19048.6	18986.5	18637.6	18097.1	17361.3	16496.6	15446.8	14363.4
10°	19197.3	19757.2	20142.5	20230.3	20142.5	19757.2	19197.3	18384.9	17396.1	16282.5	15088.9
7.5°	20117.0	20731.4	21157.1	21231.1	21157.1	20731.4	20117.0	19250.8	18156.8	16956.8	15683.1
5°	20790.0	21519.4	21868.8	21956.5	21868.8	21519.4	20790.0	19844.3	18710.5	17448.8	16117.2
2.5°	21159.1	21901.7	22387.3	22331.2	22387.3	21901.7	21159.1	20215.2	19050.0	17741.4	16374.6
0°	21200.7	21977.3	22441.7	22656.2	22441.7	21977.3	21200.7	20294.4	19133.5	17842.8	16422.5
-2.5°	21159.1	21901.7	22387.3	22331.2	22387.3	21901.7	21159.1	20215.2	19050.0	17741.4	16374.6
-5°	20790.0	21519.4	21868.8	21956.5	21868.8	21519.4	20790.0	19844.3	18710.5	17448.8	16117.2
-7.5°	20117.0	20731.4	21157.1	21231.1	21157.1	20731.4	20117.0	19250.8	18156.8	16956.8	15683.1
-10°	19197.3	19757.2	20142.5	20230.3	20142.5	19757.2	19197.3	18384.9	17396.1	16282.5	15088.9
-12.5°	18097.1	18637.6	18986.5	19048.6	18986.5	18637.6	18097.1	17361.3	16496.6	15446.8	14363.4
-15°	16884.0	17405.5	17697.5	17804.4	17697.5	17405.5	16884.0	16204.7	15403.9	14494.6	13516.0
-17.5°	15603.1	16085.3	16332.2	16388.9	16332.2	16085.3	15603.1	15000.6	14283.3	13482.8	12613.4
-20°	14298.3	14685.9	14876.8	14975.0	14876.8	14685.9	14298.3	13763.7	13145.4	12441.8	11681.3



REPORT NUMBER: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	13022.3	13346.7	13484.1	13559.5	13484.1	13346.7	13022.3	12551.8	12017.5	11408.1	10725.5
-25°	11778.8	12039.3	12157.9	12264.0	12157.9	12039.3	11778.8	11378.0	10903.4	10368.2	9757.8
-27.5°	10580.3	10790.5	10894.0	10962.2	10894.0	10790.5	10580.3	10237.2	9812.1	9345.8	8812.9
-30°	9428.4	9597.0	9679.7	9719.6	9679.7	9597.0	9428.4	9134.6	8762.7	8350.1	7885.7
-32.5°	8321.5	8468.4	8547.5	8629.2	8547.5	8468.4	8321.5	8075.4	7752.7	7382.0	6971.0
-35°	7261.6	7394.9	7467.6	7508.3	7467.6	7394.9	7261.6	7050.0	6769.3	6439.2	6064.4
-37.5°	6229.2	6356.6	6434.1	6486.7	6434.1	6356.6	6229.2	6040.8	5795.4	5502.8	5158.2
-40°	5217.2	5338.6	5418.1	5473.1	5418.1	5338.6	5217.2	5044.2	4825.2	4557.8	4266.3
-42.5°	4245.7	4346.7	4408.6	4432.3	4408.6	4346.7	4245.7	4104.2	3923.1	3698.9	3463.7
-45°	3408.5	3473.6	3517.8	3543.6	3517.8	3473.6	3408.5	3315.7	3189.9	3033.7	2856.5
-47.5°	2782.8	2825.5	2857.1	2879.1	2857.1	2825.5	2782.8	2719.9	2632.8	2524.3	2399.3
-50°	2302.4	2334.7	2355.1	2363.5	2355.1	2334.7	2302.4	2255.4	2192.9	2115.5	2026.1
-52.5°	1918.4	1940.9	1957.7	1967.9	1957.7	1940.9	1918.4	1885.7	1842.4	1786.8	1719.6
-55°	1623.6	1642.0	1650.2	1649.3	1650.2	1642.0	1623.6	1597.2	1562.7	1519.3	1470.0
-57.5°	1372.3	1386.3	1393.6	1394.7	1393.6	1386.3	1372.3	1353.1	1328.8	1299.0	1263.7
-60°	1168.1	1176.6	1181.9	1183.3	1181.9	1176.6	1168.1	1155.2	1137.9	1114.6	1086.8
-62.5°	989.1	997.2	1001.3	1000.8	1001.3	997.2	989.1	976.9	961.2	942.7	923.1
-65°	800.7	802.2	805.5	807.0	805.5	802.2	800.7	796.3	789.2	780.9	769.9
-67.5°	659.9	659.4	661.0	661.3	661.0	659.4	659.9	658.3	654.5	647.9	637.8
-70°	536.7	535.4	530.8	523.6	530.8	535.4	536.7	537.3	537.9	536.5	529.6
-72.5°	398.0	379.7	361.3	341.1	361.3	379.7	398.0	415.7	433.1	445.2	441.4
-75°	288.2	258.2	248.1	238.6	248.1	258.2	288.2	317.2	345.1	366.3	363.7
-77.5°	211.3	182.8	174.4	166.5	174.4	182.8	211.3	238.7	264.7	285.8	284.9
-80°	144.1	123.2	119.2	115.3	119.2	123.2	144.1	164.2	183.5	200.6	202.8
-82.5°	90.4	75.1	72.8	70.5	72.8	75.1	90.4	105.2	119.2	131.7	130.6
-85°	41.9	35.0	34.3	33.6	34.3	35.0	41.9	48.5	54.7	60.4	59.1
-87.5°	7.1	6.4	5.6	4.8	5.6	6.4	7.1	7.9	8.6	9.3	9.5
-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: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**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°	9.8	10.0	10.2	10.6	11.1	11.5	11.8	11.4	11.0	10.6	10.2
85°	57.6	56.0	54.2	54.2	53.9	53.3	52.1	46.7	41.5	36.7	32.5
82.5°	129.0	126.8	123.8	119.6	115.2	110.9	105.9	94.7	83.8	73.4	64.9
80°	203.9	203.9	201.9	194.0	185.7	177.1	166.7	148.9	131.6	115.7	104.4
77.5°	283.4	281.5	277.6	267.1	256.3	245.5	231.8	208.8	185.8	163.6	149.3
75°	360.4	356.3	349.4	336.4	322.3	307.1	290.9	270.9	248.1	222.2	203.3
72.5°	436.4	430.5	421.3	407.6	391.9	375.5	358.2	338.7	316.3	290.9	271.8
70°	521.3	511.7	499.4	483.8	467.6	450.2	432.3	412.3	389.1	363.7	343.5
67.5°	625.1	609.9	592.6	574.0	556.3	535.7	514.6	491.8	468.3	441.6	416.2
65°	754.3	733.9	710.7	690.7	666.8	638.6	606.9	579.2	551.9	521.9	488.7
62.5°	903.0	883.1	851.1	818.2	786.4	754.1	715.7	677.0	639.7	602.0	563.2
60°	1055.0	1019.2	984.5	946.9	906.2	862.5	820.4	776.2	730.0	684.7	638.3
57.5°	1222.8	1178.5	1133.2	1084.5	1032.9	983.2	932.0	877.0	824.6	769.8	714.3
55°	1415.3	1361.9	1303.9	1240.4	1174.8	1115.7	1053.1	990.1	926.4	857.4	796.2
52.5°	1643.7	1577.1	1502.7	1420.3	1343.3	1265.1	1183.6	1112.2	1034.4	957.7	881.4
50°	1934.7	1840.3	1737.9	1634.0	1538.5	1435.3	1339.5	1245.5	1151.4	1062.6	973.8
47.5°	2283.2	2158.3	2018.4	1889.4	1762.8	1634.9	1517.1	1392.8	1284.7	1172.9	1074.2
45°	2707.0	2540.6	2360.8	2196.9	2019.1	1864.7	1714.4	1571.5	1429.5	1303.2	1177.2
42.5°	3248.7	3006.2	2778.0	2560.6	2336.5	2133.6	1933.3	1764.0	1597.4	1441.0	1299.0
40°	3945.4	3592.2	3299.1	2987.0	2715.8	2444.0	2204.7	1969.9	1780.7	1595.4	1422.2
37.5°	4767.9	4354.5	3936.0	3509.0	3155.8	2814.3	2506.2	2229.8	1972.4	1761.7	1561.8
35°	5637.8	5170.8	4669.5	4169.3	3653.6	3240.0	2848.5	2507.9	2207.5	1935.9	1705.6
32.5°	6505.7	5993.0	5441.1	4870.5	4291.2	3712.1	3242.2	2820.4	2444.5	2135.3	1862.7
30°	7373.2	6810.5	6206.0	5582.8	4947.2	4297.3	3656.1	3163.4	2722.2	2334.2	2020.7
27.5°	8243.6	7633.8	6972.2	6286.5	5601.4	4892.7	4182.2	3517.3	3001.9	2563.5	2194.1
25°	9114.8	8433.0	7722.7	6976.3	6229.3	5475.9	4691.0	3949.7	3315.6	2792.9	2353.9
22.5°	9988.8	9223.2	8431.4	7629.6	6826.4	6021.3	5199.7	4373.3	3612.9	3026.2	2541.0
20°	10852.2	9992.4	9125.7	8256.6	7390.7	6529.7	5670.9	4788.7	3962.3	3267.8	2715.6
17.5°	11683.9	10728.8	9787.8	8845.7	7919.5	7006.7	6093.3	5172.1	4274.4	3482.8	2869.8
15°	12476.1	11433.8	10411.8	9400.3	8400.8	7420.5	6467.3	5508.6	4558.1	3707.1	3038.9
12.5°	13223.5	12086.0	10972.7	9874.7	8812.8	7785.3	6794.4	5804.1	4825.4	3925.6	3189.5
10°	13861.9	12641.5	11443.2	10285.3	9169.5	8095.6	7064.2	6054.0	5054.6	4107.4	3312.8
7.5°	14381.0	13088.2	11824.6	10609.8	9449.2	8342.6	7272.7	6245.8	5236.0	4249.5	3407.9
5°	14760.3	13416.7	12107.2	10850.2	9643.0	8522.4	7419.7	6377.0	5367.4	4350.6	3474.4
2.5°	14995.5	13615.5	12275.3	10996.3	9755.8	8630.4	7505.0	6456.3	5442.5	4406.2	3516.2
0°	15039.0	13708.4	12328.1	11011.9	9820.5	8662.8	7527.5	6485.1	5461.9	4417.9	3529.2
-2.5°	14995.5	13615.5	12275.3	10996.3	9755.8	8630.4	7505.0	6456.3	5442.5	4406.2	3516.2
-5°	14760.3	13416.7	12107.2	10850.2	9643.0	8522.4	7419.7	6377.0	5367.4	4350.6	3474.4
-7.5°	14381.0	13088.2	11824.6	10609.8	9449.2	8342.6	7272.7	6245.8	5236.0	4249.5	3407.9
-10°	13861.9	12641.5	11443.2	10285.3	9169.5	8095.6	7064.2	6054.0	5054.6	4107.4	3312.8
-12.5°	13223.5	12086.0	10972.7	9874.7	8812.8	7785.3	6794.4	5804.1	4825.4	3925.6	3189.5
-15°	12476.1	11433.8	10411.8	9400.3	8400.8	7420.5	6467.3	5508.6	4558.1	3707.1	3038.9
-17.5°	11683.9	10728.8	9787.8	8845.7	7919.5	7006.7	6093.3	5172.1	4274.4	3482.8	2869.8
-20°	10852.2	9992.4	9125.7	8256.6	7390.7	6529.7	5670.9	4788.7	3962.3	3267.8	2715.6



REPORT NUMBER: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	9988.8	9223.2	8431.4	7629.6	6826.4	6021.3	5199.7	4373.3	3612.9	3026.2	2541.0
-25°	9114.8	8433.0	7722.7	6976.3	6229.3	5475.9	4691.0	3949.7	3315.6	2792.9	2353.9
-27.5°	8243.6	7633.8	6972.2	6286.5	5601.4	4892.7	4182.2	3517.3	3001.9	2563.5	2194.1
-30°	7373.2	6810.5	6206.0	5582.8	4947.2	4297.3	3656.1	3163.4	2722.2	2334.2	2020.7
-32.5°	6505.7	5993.0	5441.1	4870.5	4291.2	3712.1	3242.2	2820.4	2444.5	2135.3	1862.7
-35°	5637.8	5170.8	4669.5	4169.3	3653.6	3240.0	2848.5	2507.9	2207.5	1935.9	1705.6
-37.5°	4767.9	4354.5	3936.0	3509.0	3155.8	2814.3	2506.2	2229.8	1972.4	1761.7	1561.8
-40°	3945.4	3592.2	3299.1	2987.0	2715.8	2444.0	2204.7	1969.9	1780.7	1595.4	1422.2
-42.5°	3248.7	3006.2	2778.0	2560.6	2336.5	2133.6	1933.3	1764.0	1597.4	1441.0	1299.0
-45°	2707.0	2540.6	2360.8	2196.9	2019.1	1864.7	1714.4	1571.5	1429.5	1303.2	1177.2
-47.5°	2283.2	2158.3	2018.4	1889.4	1762.8	1634.9	1517.1	1392.8	1284.7	1172.9	1074.2
-50°	1934.7	1840.3	1737.9	1634.0	1538.5	1435.3	1339.5	1245.5	1151.4	1062.6	973.8
-52.5°	1643.7	1577.1	1502.7	1420.3	1343.3	1265.1	1183.6	1112.2	1034.4	957.7	881.4
-55°	1415.3	1361.9	1303.9	1240.4	1174.8	1115.7	1053.1	990.1	926.4	857.4	796.2
-57.5°	1222.8	1178.5	1133.2	1084.5	1032.9	983.2	932.0	877.0	824.6	769.8	714.3
-60°	1055.0	1019.2	984.5	946.9	906.2	862.5	820.4	776.2	730.0	684.7	638.3
-62.5°	903.0	883.1	851.1	818.2	786.4	754.1	715.7	677.0	639.7	602.0	563.2
-65°	754.3	733.9	710.7	690.7	666.8	638.6	606.9	579.2	551.9	521.9	488.7
-67.5°	625.1	609.9	592.6	574.0	556.3	535.7	514.6	491.8	468.3	441.6	416.2
-70°	521.3	511.7	499.4	483.8	467.6	450.2	432.3	412.3	389.1	363.7	343.5
-72.5°	436.4	430.5	421.3	407.6	391.9	375.5	358.2	338.7	316.3	290.9	271.8
-75°	360.4	356.3	349.4	336.4	322.3	307.1	290.9	270.9	248.1	222.2	203.3
-77.5°	283.4	281.5	277.6	267.1	256.3	245.5	231.8	208.8	185.8	163.6	149.3
-80°	203.9	203.9	201.9	194.0	185.7	177.1	166.7	148.9	131.6	115.7	104.4
-82.5°	129.0	126.8	123.8	119.6	115.2	110.9	105.9	94.7	83.8	73.4	64.9
-85°	57.6	56.0	54.2	54.2	53.9	53.3	52.1	46.7	41.5	36.7	32.5
-87.5°	9.8	10.0	10.2	10.6	11.1	11.5	11.8	11.4	11.0	10.6	10.2
-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: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**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°	11.4	12.4	13.2	13.8	14.2	14.4	14.4	14.2	13.6	12.9	11.9
85°	33.9	34.6	34.5	33.5	31.2	28.9	28.9	28.4	27.3	25.7	23.8
82.5°	67.4	69.5	70.7	70.2	65.9	61.3	56.4	51.2	45.7	39.4	35.7
80°	108.3	110.7	111.5	109.7	101.9	93.6	86.4	79.0	71.7	63.4	54.2
77.5°	152.4	154.3	154.7	151.8	142.0	131.4	119.9	107.9	97.7	87.5	76.0
75°	199.9	200.5	200.1	194.9	182.9	169.1	155.2	140.3	125.4	111.5	97.7
72.5°	261.5	253.1	246.8	238.5	225.2	209.7	192.1	172.2	153.3	135.6	119.0
70°	326.0	308.2	294.4	281.7	267.0	250.6	231.0	206.1	180.7	159.2	139.1
67.5°	393.3	371.2	349.0	325.9	307.8	289.4	269.5	239.5	209.2	182.4	158.8
65°	458.8	431.6	406.5	376.4	350.1	327.6	305.1	271.2	236.5	205.3	178.1
62.5°	524.8	488.3	456.8	424.2	392.5	364.6	339.3	300.7	262.8	227.3	196.3
60°	592.6	549.9	507.0	469.4	433.5	399.7	368.2	329.3	288.2	248.3	213.6
57.5°	662.9	611.6	562.6	515.7	473.9	434.9	395.9	355.6	312.7	269.5	229.2
55°	733.8	675.8	618.3	564.6	515.0	470.7	424.7	380.7	336.2	290.3	241.7
52.5°	809.9	741.9	677.1	614.3	557.6	505.5	455.5	405.3	358.6	310.2	255.2
50°	890.5	812.0	737.9	667.8	599.9	541.9	485.6	432.3	380.4	329.4	267.9
47.5°	975.2	886.3	802.0	721.6	647.9	577.1	517.0	458.9	401.7	348.4	279.5
45°	1068.5	962.7	867.8	779.6	693.9	617.1	548.0	484.5	424.7	362.0	289.9
42.5°	1162.2	1045.2	936.1	835.6	744.1	657.4	577.7	511.1	446.8	374.4	300.1
40°	1270.3	1129.4	1004.7	895.9	793.6	695.9	611.8	536.8	467.5	386.7	309.9
37.5°	1375.7	1220.2	1079.7	953.4	842.4	739.4	644.9	561.1	483.7	400.2	318.9
35°	1499.9	1313.9	1151.1	1014.3	892.7	780.8	676.0	586.1	501.6	413.1	326.8
32.5°	1620.5	1409.3	1231.4	1076.6	940.2	819.9	708.9	611.5	519.8	425.4	333.8
30°	1753.1	1513.0	1307.2	1134.9	987.3	860.2	742.2	635.5	538.1	437.1	340.6
27.5°	1880.4	1608.6	1380.9	1196.7	1037.1	898.0	772.9	658.0	556.5	449.2	349.0
25°	2006.6	1711.9	1462.1	1255.6	1082.9	932.3	801.2	679.0	574.5	462.8	356.6
22.5°	2143.5	1811.9	1535.3	1308.6	1124.3	963.6	828.1	702.0	591.0	475.7	363.2
20°	2269.4	1902.1	1600.7	1359.2	1165.3	997.4	853.3	722.6	605.9	487.9	368.9
17.5°	2388.1	1993.8	1673.6	1414.0	1204.2	1027.2	875.5	740.7	619.0	499.1	373.4
15°	2512.8	2085.0	1739.3	1461.4	1237.9	1052.9	894.6	756.2	630.3	509.2	377.7
12.5°	2619.2	2162.1	1794.4	1501.3	1266.1	1074.4	910.5	769.2	639.7	517.8	381.6
10°	2706.9	2224.6	1838.9	1533.5	1288.9	1091.6	923.1	779.7	647.6	524.4	383.7
7.5°	2775.2	2272.4	1872.6	1558.0	1306.3	1105.1	933.7	787.8	653.7	529.1	384.2
5°	2822.9	2305.8	1897.2	1575.0	1319.5	1114.8	941.2	793.2	657.8	531.7	383.0
2.5°	2847.9	2324.6	1912.4	1584.1	1327.1	1120.1	945.4	795.9	659.9	532.0	380.4
0°	2851.8	2328.2	1916.7	1585.2	1329.0	1120.9	946.3	795.8	659.7	530.0	376.3
-2.5°	2847.9	2324.6	1912.4	1584.1	1327.1	1120.1	945.4	795.9	659.9	532.0	380.4
-5°	2822.9	2305.8	1897.2	1575.0	1319.5	1114.8	941.2	793.2	657.8	531.7	383.0
-7.5°	2775.2	2272.4	1872.6	1558.0	1306.3	1105.1	933.7	787.8	653.7	529.1	384.2
-10°	2706.9	2224.6	1838.9	1533.5	1288.9	1091.6	923.1	779.7	647.6	524.4	383.7
-12.5°	2619.2	2162.1	1794.4	1501.3	1266.1	1074.4	910.5	769.2	639.7	517.8	381.6
-15°	2512.8	2085.0	1739.3	1461.4	1237.9	1052.9	894.6	756.2	630.3	509.2	377.7
-17.5°	2388.1	1993.8	1673.6	1414.0	1204.2	1027.2	875.5	740.7	619.0	499.1	373.4
-20°	2269.4	1902.1	1600.7	1359.2	1165.3	997.4	853.3	722.6	605.9	487.9	368.9

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

Scaled Data Report



REPORT NUMBER: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2143.5	1811.9	1535.3	1308.6	1124.3	963.6	828.1	702.0	591.0	475.7	363.2
-25°	2006.6	1711.9	1462.1	1255.6	1082.9	932.3	801.2	679.0	574.5	462.8	356.6
-27.5°	1880.4	1608.6	1380.9	1196.7	1037.1	898.0	772.9	658.0	556.5	449.2	349.0
-30°	1753.1	1513.0	1307.2	1134.9	987.3	860.2	742.2	635.5	538.1	437.1	340.6
-32.5°	1620.5	1409.3	1231.4	1076.6	940.2	819.9	708.9	611.5	519.8	425.4	333.8
-35°	1499.9	1313.9	1151.1	1014.3	892.7	780.8	676.0	586.1	501.6	413.1	326.8
-37.5°	1375.7	1220.2	1079.7	953.4	842.4	739.4	644.9	561.1	483.7	400.2	318.9
-40°	1270.3	1129.4	1004.7	895.9	793.6	695.9	611.8	536.8	467.5	386.7	309.9
-42.5°	1162.2	1045.2	936.1	835.6	744.1	657.4	577.7	511.1	446.8	374.4	300.1
-45°	1068.5	962.7	867.8	779.6	693.9	617.1	548.0	484.5	424.7	362.0	289.9
-47.5°	975.2	886.3	802.0	721.6	647.9	577.1	517.0	458.9	401.7	348.4	279.5
-50°	890.5	812.0	737.9	667.8	599.9	541.9	485.6	432.3	380.4	329.4	267.9
-52.5°	809.9	741.9	677.1	614.3	557.6	505.5	455.5	405.3	358.6	310.2	255.2
-55°	733.8	675.8	618.3	564.6	515.0	470.7	424.7	380.7	336.2	290.3	241.7
-57.5°	662.9	611.6	562.6	515.7	473.9	434.9	395.9	355.6	312.7	269.5	229.2
-60°	592.6	549.9	507.0	469.4	433.5	399.7	368.2	329.3	288.2	248.3	213.6
-62.5°	524.8	488.3	456.8	424.2	392.5	364.6	339.3	300.7	262.8	227.3	196.3
-65°	458.8	431.6	406.5	376.4	350.1	327.6	305.1	271.2	236.5	205.3	178.1
-67.5°	393.3	371.2	349.0	325.9	307.8	289.4	269.5	239.5	209.2	182.4	158.8
-70°	326.0	308.2	294.4	281.7	267.0	250.6	231.0	206.1	180.7	159.2	139.1
-72.5°	261.5	253.1	246.8	238.5	225.2	209.7	192.1	172.2	153.3	135.6	119.0
-75°	199.9	200.5	200.1	194.9	182.9	169.1	155.2	140.3	125.4	111.5	97.7
-77.5°	152.4	154.3	154.7	151.8	142.0	131.4	119.9	107.9	97.7	87.5	76.0
-80°	108.3	110.7	111.5	109.7	101.9	93.6	86.4	79.0	71.7	63.4	54.2
-82.5°	67.4	69.5	70.7	70.2	65.9	61.3	56.4	51.2	45.7	39.4	35.7
-85°	33.9	34.6	34.5	33.5	31.2	28.9	28.9	28.4	27.3	25.7	23.8
-87.5°	11.4	12.4	13.2	13.8	14.2	14.4	14.4	14.2	13.6	12.9	11.9
-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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**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°	10.8	8.4	6.2	4.3	2.6	1.2	0.0
85°	21.5	16.8	12.5	8.6	5.3	2.3	0.0
82.5°	32.1	25.0	18.7	12.9	7.9	3.4	0.0
80°	43.6	33.3	24.8	17.2	10.5	4.6	0.0
77.5°	62.3	43.3	30.8	21.4	13.1	5.7	0.0
75°	80.4	56.6	37.3	25.5	15.6	6.8	0.0
72.5°	98.0	69.5	46.2	29.5	18.0	7.9	0.0
70°	114.6	81.9	54.8	33.7	20.4	8.9	0.0
67.5°	129.1	93.7	63.1	39.0	22.8	10.0	0.0
65°	142.8	104.6	70.9	44.0	25.0	11.0	0.0
62.5°	155.8	114.5	78.3	48.8	27.2	12.0	0.0
60°	167.9	123.9	85.2	53.3	29.3	12.9	0.0
57.5°	178.9	132.6	91.6	57.5	31.8	13.8	0.0
55°	189.1	140.6	97.5	61.3	34.3	14.7	0.0
52.5°	198.4	147.9	103.0	64.9	36.7	15.6	0.0
50°	206.8	154.6	108.0	68.1	38.9	16.4	0.0
47.5°	214.6	160.7	112.4	71.0	41.1	17.1	0.0
45°	223.4	166.1	116.3	73.9	43.1	17.8	0.0
42.5°	231.2	170.8	119.7	76.4	45.0	18.5	0.0
40°	238.1	174.7	122.8	79.2	46.8	19.1	0.0
37.5°	244.0	178.0	125.5	82.1	48.5	19.7	0.0
35°	248.9	181.6	127.7	84.7	50.1	20.2	0.0
32.5°	253.4	185.0	129.4	87.1	51.5	20.7	0.0
30°	258.3	187.7	130.5	89.3	52.8	21.1	0.0
27.5°	262.4	189.6	133.3	91.2	53.9	21.5	0.0
25°	265.6	190.8	136.0	92.8	55.0	21.8	0.0
22.5°	267.8	192.3	138.4	94.2	55.8	22.1	0.0
20°	269.1	195.8	140.4	95.4	56.6	22.3	0.0
17.5°	272.1	198.7	142.1	96.3	57.2	22.5	0.0
15°	275.7	200.9	143.5	97.0	57.7	22.6	0.0
12.5°	278.3	202.6	144.5	97.5	58.0	22.7	0.0
10°	280.0	203.6	145.1	97.7	58.2	22.7	0.0
7.5°	280.6	204.0	145.4	97.6	58.3	22.7	0.0
5°	280.4	203.9	145.3	97.3	58.2	22.7	0.0
2.5°	279.1	203.1	144.9	96.8	58.0	22.6	0.0
0°	277.0	201.8	144.1	96.1	57.6	22.4	0.0
-2.5°	279.1	203.1	144.9	96.8	58.0	22.6	0.0
-5°	280.4	203.9	145.3	97.3	58.2	22.7	0.0
-7.5°	280.6	204.0	145.4	97.6	58.3	22.7	0.0
-10°	280.0	203.6	145.1	97.7	58.2	22.7	0.0
-12.5°	278.3	202.6	144.5	97.5	58.0	22.7	0.0
-15°	275.7	200.9	143.5	97.0	57.7	22.6	0.0
-17.5°	272.1	198.7	142.1	96.3	57.2	22.5	0.0
-20°	269.1	195.8	140.4	95.4	56.6	22.3	0.0

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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627433 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-WR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	267.8	192.3	138.4	94.2	55.8	22.1	0.0
-25°	265.6	190.8	136.0	92.8	55.0	21.8	0.0
-27.5°	262.4	189.6	133.3	91.2	53.9	21.5	0.0
-30°	258.3	187.7	130.5	89.3	52.8	21.1	0.0
-32.5°	253.4	185.0	129.4	87.1	51.5	20.7	0.0
-35°	248.9	181.6	127.7	84.7	50.1	20.2	0.0
-37.5°	244.0	178.0	125.5	82.1	48.5	19.7	0.0
-40°	238.1	174.7	122.8	79.2	46.8	19.1	0.0
-42.5°	231.2	170.8	119.7	76.4	45.0	18.5	0.0
-45°	223.4	166.1	116.3	73.9	43.1	17.8	0.0
-47.5°	214.6	160.7	112.4	71.0	41.1	17.1	0.0
-50°	206.8	154.6	108.0	68.1	38.9	16.4	0.0
-52.5°	198.4	147.9	103.0	64.9	36.7	15.6	0.0
-55°	189.1	140.6	97.5	61.3	34.3	14.7	0.0
-57.5°	178.9	132.6	91.6	57.5	31.8	13.8	0.0
-60°	167.9	123.9	85.2	53.3	29.3	12.9	0.0
-62.5°	155.8	114.5	78.3	48.8	27.2	12.0	0.0
-65°	142.8	104.6	70.9	44.0	25.0	11.0	0.0
-67.5°	129.1	93.7	63.1	39.0	22.8	10.0	0.0
-70°	114.6	81.9	54.8	33.7	20.4	8.9	0.0
-72.5°	98.0	69.5	46.2	29.5	18.0	7.9	0.0
-75°	80.4	56.6	37.3	25.5	15.6	6.8	0.0
-77.5°	62.3	43.3	30.8	21.4	13.1	5.7	0.0
-80°	43.6	33.3	24.8	17.2	10.5	4.6	0.0
-82.5°	32.1	25.0	18.7	12.9	7.9	3.4	0.0
-85°	21.5	16.8	12.5	8.6	5.3	2.3	0.0
-87.5°	10.8	8.4	6.2	4.3	2.6	1.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)