

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: McGRAW-EDISON

Report Number: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA4B-730-U-LAM-VSR-XX

Issue Date: 2/28/2023

Test Information

Test Method: LM-79-2019
Report Number: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA4B-730-U-LAM-VSR-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, LAMBERTIAN WITH VISOR
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

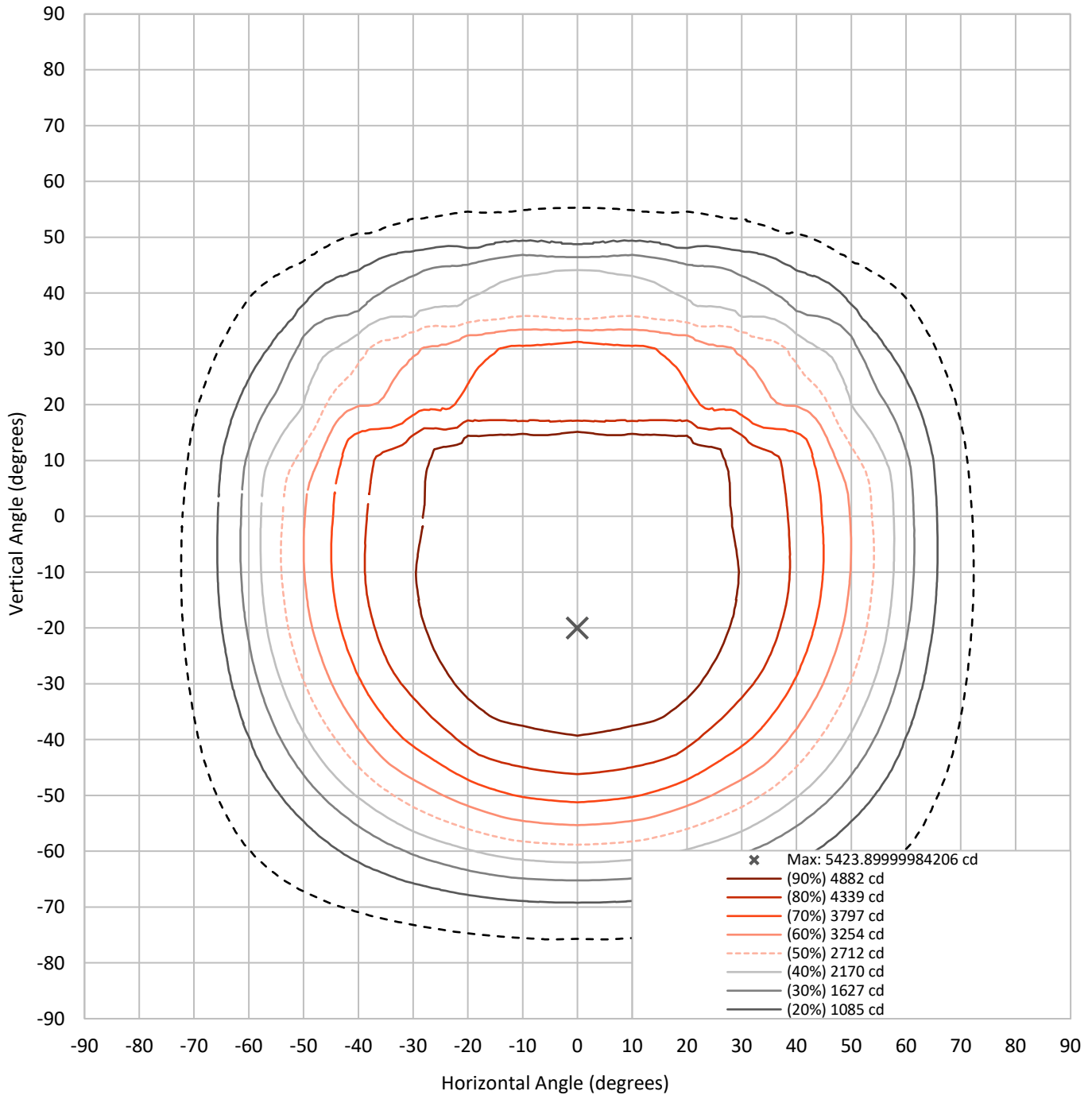
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12717.9 lumens	Max Intensity:	5423.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x -20°V
Efficacy:	98.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	105.6°H x 93.7°V	Field Angle (10%):	144°H x 131.2°V
Beam Lumens:	9942.1 lumens	Field Lumens:	12465.3 lumens
Beam Efficiency:	78.2%	Field Efficiency:	98.0%
Input Watts (W):	129.5		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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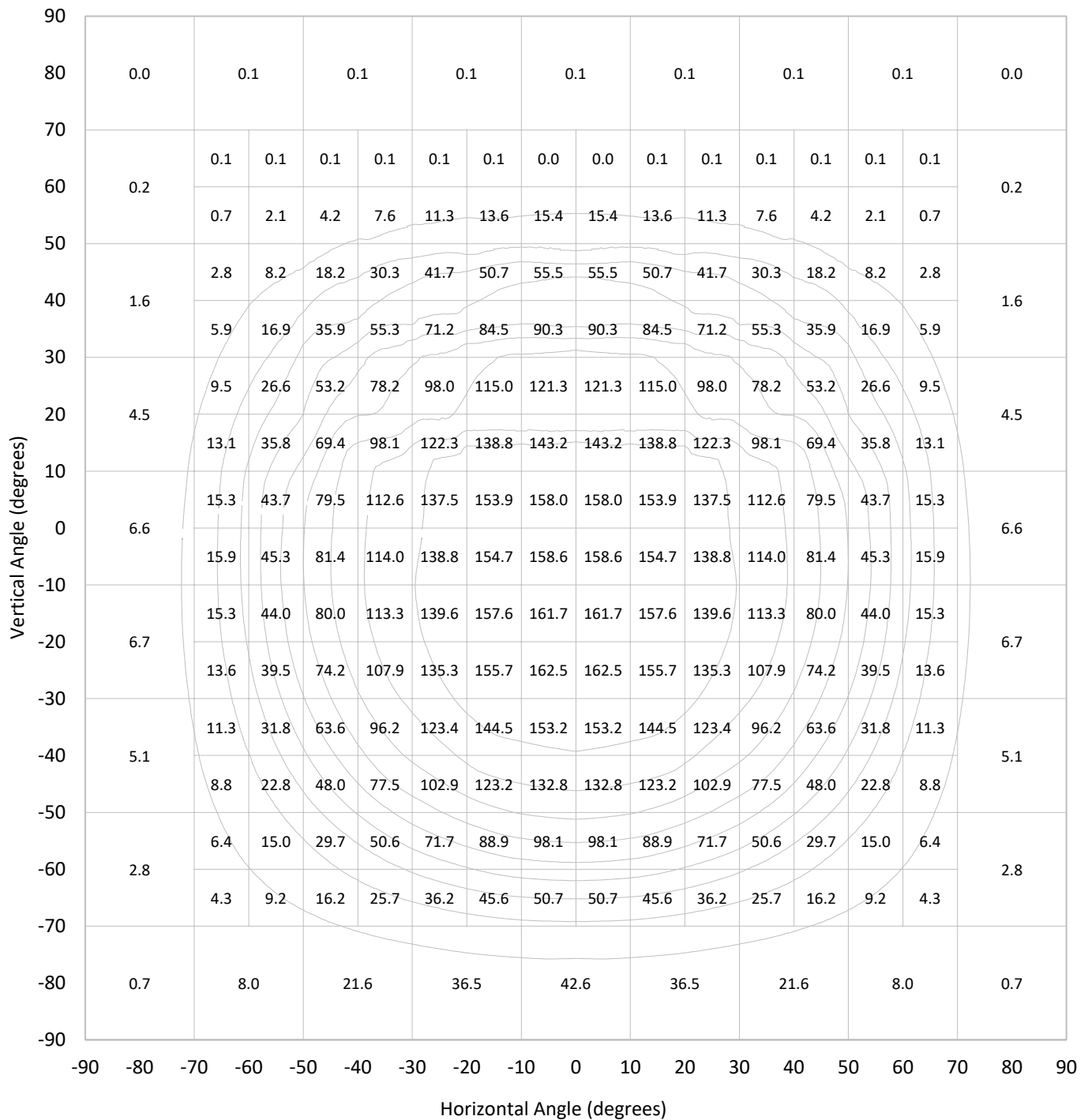
Iso-Candela Plot





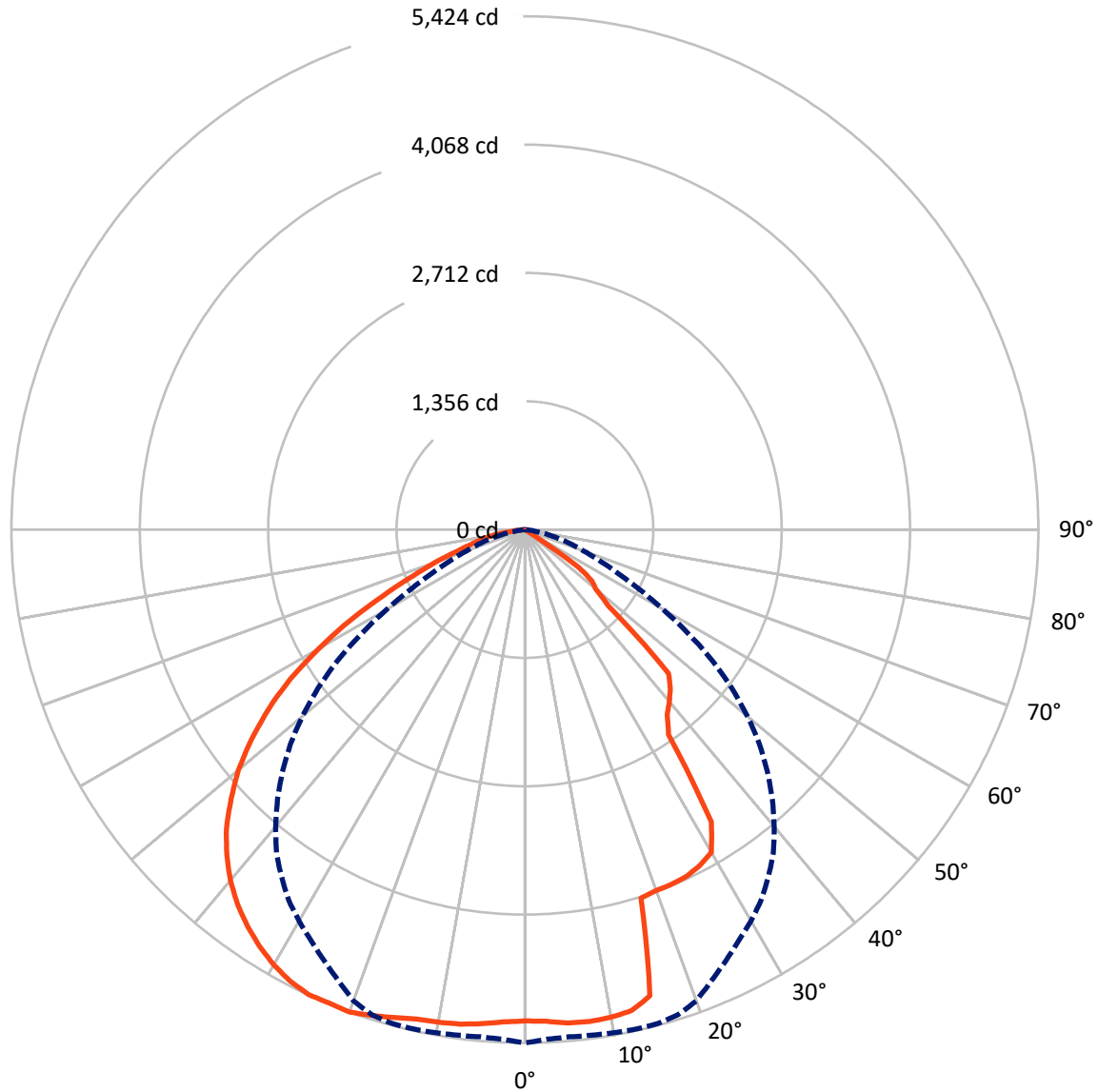
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Lumen Table



REPORT NUMBER: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-XX

Luminous Intensity Polar Plot

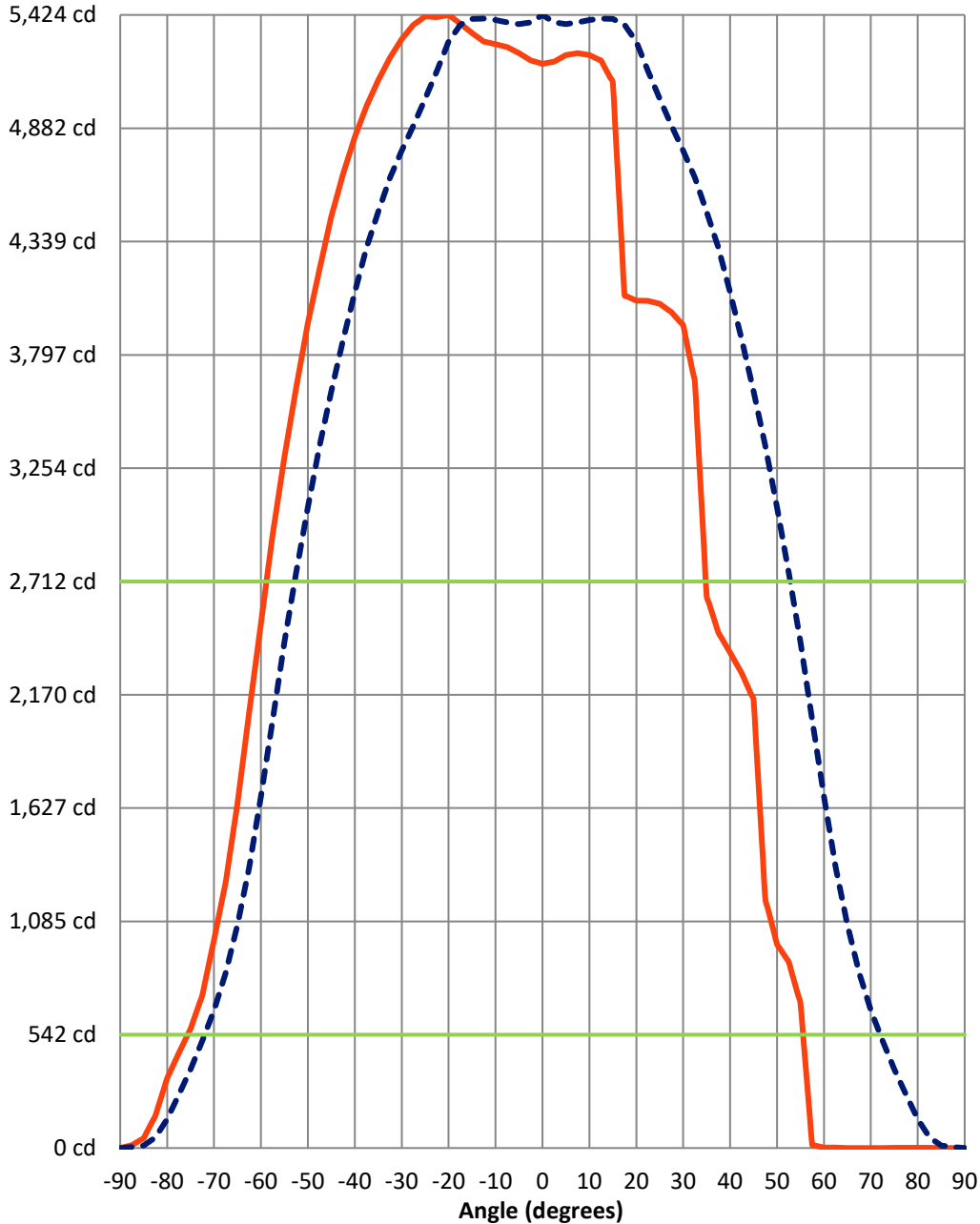


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through -20-Deg



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Luminous Intensity Plot



Beam:
 H Angle: 105.6°
 V Angle: 93.7°
 Lumens: 9942.1
 Efficiency: 78.2%

Field:
 H Angle: 144°
 V Angle: 131.2°
 Lumens: 12465.3
 Efficiency: 98.0%

Spill:
 Lumens: 252.6
 Efficiency: 2.0%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through -20-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	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.5
85°	0.0	0.3	0.4	0.6	0.8	1.0	1.2	1.2	1.2	1.1	1.0
82.5°	0.0	0.4	0.6	0.9	1.2	1.5	1.8	1.8	1.8	1.5	1.2
80°	0.0	0.5	0.8	1.2	1.6	2.0	2.3	2.1	1.8	1.5	1.2
77.5°	0.0	0.6	1.0	1.5	2.0	2.3	2.3	2.1	1.8	1.5	1.3
75°	0.0	0.8	1.2	1.8	2.3	2.4	2.3	2.1	1.8	1.6	1.3
72.5°	0.0	0.9	1.4	2.1	2.4	2.5	2.4	2.1	1.8	1.6	1.3
70°	0.0	1.0	1.6	2.3	2.5	2.6	2.4	2.1	1.9	1.6	1.9
67.5°	0.0	1.1	1.8	2.4	2.7	2.7	2.7	2.2	1.9	2.6	2.6
65°	0.0	1.2	2.0	2.6	2.8	3.1	3.1	2.2	3.1	3.6	4.5
62.5°	0.0	1.4	2.2	2.7	2.9	3.8	3.6	3.1	4.3	6.3	10.1
60°	0.0	1.5	2.5	2.8	3.1	4.6	4.3	4.3	5.5	16.1	17.5
57.5°	0.0	1.6	2.6	2.9	3.9	5.6	7.9	6.1	15.7	27.3	31.7
55°	0.0	1.7	2.7	3.1	4.9	6.6	12.6	9.9	29.2	42.2	51.4
52.5°	0.0	1.8	2.9	3.2	5.9	8.4	18.1	25.3	43.9	66.2	74.5
50°	0.0	2.0	3.0	3.3	7.0	14.4	24.4	42.9	62.7	92.8	116.4
47.5°	0.0	2.1	3.1	3.6	8.1	20.8	32.8	61.2	90.4	122.2	159.2
45°	0.0	2.2	3.3	4.5	9.2	27.6	49.5	80.4	121.3	159.3	200.7
42.5°	0.0	2.3	3.4	5.4	10.4	34.9	66.7	104.7	152.7	195.4	248.7
40°	0.0	2.4	3.6	6.5	14.0	42.6	84.2	132.4	185.1	230.8	300.0
37.5°	0.0	2.5	3.7	7.9	20.1	50.8	102.0	160.1	219.1	273.4	353.5
35°	0.0	2.6	3.9	9.4	26.2	63.1	120.1	187.8	253.7	325.7	416.8
32.5°	0.0	2.7	4.0	11.1	32.4	77.3	139.7	215.5	288.7	378.3	493.8
30°	0.0	2.8	4.2	13.0	38.7	91.5	162.2	243.4	324.0	431.1	567.7
27.5°	0.0	2.9	4.3	14.9	46.4	105.5	184.2	272.4	362.7	483.7	638.3
25°	0.0	2.9	4.5	17.0	54.3	119.3	205.6	301.1	406.5	541.2	705.6
22.5°	0.0	3.0	4.6	19.1	62.2	133.3	226.5	329.4	449.4	598.7	773.7
20°	0.0	3.1	4.8	21.3	70.1	148.4	246.6	357.1	491.1	652.9	840.2
17.5°	0.0	3.2	4.9	23.6	77.8	163.0	266.6	384.0	531.6	703.7	904.6
15°	0.0	3.2	5.1	25.8	85.3	177.0	285.7	409.0	570.4	751.2	966.5
12.5°	0.0	3.3	5.2	28.1	92.5	190.3	303.6	431.3	601.4	795.1	1025.3
10°	0.0	3.3	5.3	30.3	99.4	203.0	320.3	451.8	624.5	821.5	1073.3
7.5°	0.0	3.4	5.5	32.5	106.0	214.8	335.5	470.5	644.2	841.9	1101.3
5°	0.0	3.4	5.6	34.5	112.1	225.6	349.4	487.3	660.6	858.4	1124.0
2.5°	0.0	3.5	5.7	36.4	117.7	235.5	361.9	502.3	674.0	871.0	1141.4
0°	0.0	3.5	5.8	38.2	122.7	244.3	372.9	515.3	684.4	880.0	1153.3
-2.5°	0.0	3.7	6.7	40.7	127.4	249.9	378.4	522.9	688.1	891.4	1161.1
-5°	0.0	3.9	7.6	43.0	131.4	254.3	382.3	528.4	689.4	898.7	1163.6
-7.5°	0.0	4.1	8.5	45.0	134.6	257.5	384.9	531.9	688.4	901.7	1161.0
-10°	0.0	4.2	9.3	46.8	137.1	259.5	386.0	533.2	685.5	900.0	1153.6
-12.5°	0.0	4.4	10.1	48.3	138.7	260.3	385.8	532.3	680.7	892.7	1141.0
-15°	0.0	4.5	10.8	49.5	139.5	259.9	384.3	529.2	675.3	878.6	1122.6
-17.5°	0.0	4.7	11.5	50.4	139.4	258.4	381.5	522.8	668.8	860.9	1098.7
-20°	0.0	4.8	12.2	50.9	138.4	255.6	377.1	513.7	659.4	839.8	1069.2



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 CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-XX

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	4.9	12.7	51.0	136.5	251.7	370.8	502.8	647.3	815.5	1034.2
-25°	0.0	4.9	13.3	50.8	133.6	245.7	363.1	490.1	632.2	788.1	993.6
-27.5°	0.0	5.0	13.7	50.2	129.7	238.1	353.8	475.7	614.3	761.6	957.7
-30°	0.0	5.0	14.0	49.1	124.8	229.6	343.2	459.6	594.7	739.2	919.4
-32.5°	0.0	5.0	14.3	47.7	119.1	220.0	331.1	444.7	573.9	713.3	878.4
-35°	0.0	5.0	14.5	45.8	112.8	209.4	318.0	429.0	551.4	684.0	834.8
-37.5°	0.0	5.0	14.6	43.5	105.9	198.7	303.9	411.7	527.4	651.2	791.8
-40°	0.0	4.9	14.6	40.8	98.3	189.1	288.7	392.8	501.7	620.2	749.4
-42.5°	0.0	4.9	14.5	37.9	92.6	178.7	272.5	372.2	477.0	587.5	703.7
-45°	0.0	4.8	14.4	34.9	88.6	167.7	255.3	351.0	451.7	552.6	656.4
-47.5°	0.0	4.7	14.1	31.5	84.0	156.1	237.1	329.7	424.5	516.0	615.4
-50°	0.0	4.5	13.7	30.4	78.7	143.8	221.9	307.4	394.5	482.4	572.6
-52.5°	0.0	4.4	13.3	29.8	72.7	131.0	206.6	284.1	365.8	447.8	528.6
-55°	0.0	4.2	12.8	28.8	66.0	121.3	190.8	260.5	337.0	412.3	489.5
-57.5°	0.0	4.0	12.2	27.6	58.8	111.4	174.4	241.8	307.2	378.2	449.6
-60°	0.0	3.7	11.5	26.0	51.1	100.7	157.7	221.1	277.4	343.8	409.7
-62.5°	0.0	3.5	10.8	24.2	47.5	89.0	142.5	198.6	249.9	308.4	370.7
-65°	0.0	3.2	10.0	22.1	43.3	76.6	126.2	175.2	220.6	272.9	330.7
-67.5°	0.0	3.0	9.2	19.7	38.7	66.2	108.9	152.0	189.9	235.8	287.5
-70°	0.0	2.7	8.3	17.1	33.7	58.0	90.6	128.2	162.3	197.1	241.5
-72.5°	0.0	2.4	7.4	15.0	28.3	49.1	76.6	103.9	134.2	165.0	196.1
-75°	0.0	2.1	6.4	13.1	22.5	39.6	62.6	83.8	105.7	132.5	159.6
-77.5°	0.0	1.7	5.4	11.0	18.6	29.7	48.0	64.7	82.2	101.0	122.6
-80°	0.0	1.4	4.4	8.9	15.0	22.7	32.8	45.4	58.9	73.5	89.2
-82.5°	0.0	1.1	3.3	6.7	11.3	17.1	24.1	29.1	35.2	45.5	56.6
-85°	0.0	0.7	2.2	4.5	7.6	11.5	16.1	19.5	22.9	26.5	30.3
-87.5°	0.0	0.4	1.1	2.3	3.8	5.8	8.1	9.8	11.5	13.3	15.2
-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: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-XX

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°	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1.0
85°	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.4	1.5	1.5	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.8	1.9	1.7	1.4	1.2	1.3	1.4	1.3	1.2	1.2	1.2
67.5°	2.2	2.0	1.7	1.6	1.6	1.8	1.7	1.4	1.2	1.2	1.2
65°	2.3	2.0	2.9	3.3	2.4	2.1	1.8	1.5	1.6	1.7	1.7
62.5°	3.4	4.3	5.5	9.8	7.3	2.1	3.8	4.5	3.3	2.7	2.9
60°	11.3	7.7	22.8	32.7	20.4	7.5	9.1	30.2	26.2	4.8	16.4
57.5°	23.8	32.6	60.1	61.2	42.3	29.2	84.9	98.1	74.2	43.4	66.3
55°	52.3	80.5	99.7	92.2	100.7	152.5	181.2	162.8	137.1	210.9	269.4
52.5°	102.3	131.0	137.4	157.8	225.9	259.5	248.7	266.0	344.9	428.3	446.4
50°	151.0	174.4	192.7	278.6	331.9	335.3	360.0	438.2	543.5	594.5	582.2
47.5°	198.0	222.3	307.5	390.1	414.0	446.7	508.6	659.5	771.0	773.2	760.7
45°	247.8	312.7	421.4	475.2	514.0	577.4	726.8	935.0	945.8	976.1	1162.2
42.5°	301.1	414.8	509.6	565.6	628.3	746.6	945.9	1082.5	1129.5	1262.0	1411.6
40°	387.4	513.4	596.2	667.8	748.4	921.0	1139.3	1267.3	1305.5	1420.2	1532.7
37.5°	474.9	595.7	688.5	774.8	886.6	1119.6	1372.2	1477.7	1497.1	1518.0	1767.4
35°	559.2	680.1	791.2	904.2	1041.2	1376.7	1597.5	1696.7	1693.6	1835.2	2096.3
32.5°	637.9	766.3	897.5	1048.7	1274.8	1618.5	1839.4	1898.8	1988.9	2194.9	2551.2
30°	716.6	862.6	1013.2	1193.3	1479.8	1777.7	2029.8	2125.4	2279.9	2514.9	2774.2
27.5°	797.6	961.3	1143.4	1354.4	1641.6	1915.4	2130.7	2359.2	2509.3	2719.9	2904.4
25°	878.3	1065.8	1272.0	1495.3	1757.2	2012.4	2235.1	2498.9	2660.1	2829.9	3002.0
22.5°	963.0	1171.8	1404.6	1607.0	1854.7	2094.9	2360.0	2646.2	2855.7	2963.7	3079.2
20°	1051.5	1286.4	1534.7	1758.9	1950.9	2171.5	2485.4	2833.1	3103.6	3225.1	3240.9
17.5°	1138.7	1397.4	1664.4	1907.2	2114.3	2310.6	2617.1	3057.1	3393.4	3506.3	3556.5
15°	1223.7	1504.2	1793.5	2051.4	2278.8	2518.8	2846.2	3293.6	3678.1	3803.0	3882.0
12.5°	1305.8	1606.1	1920.4	2190.9	2443.4	2712.7	3054.2	3463.8	3814.8	4056.4	4201.3
10°	1384.0	1702.3	2043.6	2324.8	2606.2	2892.5	3226.3	3590.6	3876.3	4109.3	4315.1
7.5°	1423.5	1765.1	2149.4	2452.3	2764.9	3058.7	3367.3	3679.9	3920.6	4149.1	4348.1
5°	1450.3	1791.0	2182.5	2496.7	2849.2	3169.6	3469.1	3738.6	3949.5	4176.0	4370.3
2.5°	1469.4	1807.7	2204.9	2521.0	2880.9	3203.7	3498.5	3758.3	3973.4	4195.2	4394.3
0°	1481.0	1815.7	2216.3	2535.9	2900.7	3226.1	3515.5	3765.7	3989.2	4204.5	4418.8
-2.5°	1487.5	1840.0	2223.9	2574.3	2919.8	3245.4	3539.4	3783.6	4017.1	4222.0	4436.8
-5°	1486.7	1854.5	2221.9	2600.2	2929.0	3253.0	3551.3	3791.7	4032.2	4235.1	4444.1
-7.5°	1478.7	1857.8	2211.9	2608.3	2929.4	3250.4	3546.1	3795.5	4032.0	4247.2	4444.8
-10°	1464.3	1844.7	2202.7	2587.4	2918.1	3237.2	3530.1	3787.0	4022.6	4244.7	4441.0
-12.5°	1447.3	1817.6	2183.4	2557.2	2895.3	3212.6	3505.8	3765.3	4005.0	4226.6	4432.1
-15°	1421.8	1781.6	2151.7	2519.0	2860.5	3176.8	3474.2	3729.9	3977.8	4194.8	4405.9
-17.5°	1387.6	1737.0	2107.0	2473.5	2813.7	3130.0	3433.7	3683.2	3929.9	4154.1	4357.8
-20°	1344.5	1684.1	2049.0	2421.9	2754.3	3067.3	3361.5	3622.7	3867.8	4095.9	4309.9



REPORT NUMBER: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-XX

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1292.4	1623.3	1979.2	2352.3	2680.1	2989.5	3280.3	3545.7	3799.7	4020.3	4248.3
-25°	1240.1	1559.1	1902.0	2255.8	2594.0	2902.1	3193.7	3452.3	3711.8	3941.3	4157.9
-27.5°	1190.1	1484.6	1812.4	2149.6	2496.4	2803.0	3092.0	3350.8	3602.7	3853.6	4062.2
-30°	1133.9	1398.3	1714.2	2036.3	2374.3	2686.5	2977.7	3246.1	3486.0	3733.7	3957.6
-32.5°	1072.0	1306.9	1610.5	1920.4	2239.1	2558.2	2846.6	3113.3	3362.8	3597.1	3832.2
-35°	1011.4	1233.0	1500.6	1795.8	2095.7	2408.8	2697.5	2961.6	3220.5	3452.6	3677.2
-37.5°	956.9	1153.0	1383.8	1665.8	1952.4	2248.5	2542.1	2797.8	3044.2	3299.4	3518.4
-40°	897.9	1067.1	1282.6	1531.9	1802.0	2083.6	2364.7	2629.2	2860.8	3113.0	3353.9
-42.5°	836.1	997.2	1182.8	1390.1	1645.1	1910.5	2181.9	2440.7	2681.2	2919.1	3157.9
-45°	782.1	923.1	1081.2	1270.7	1478.3	1727.9	1984.8	2242.8	2473.6	2700.3	2936.1
-47.5°	724.6	848.7	994.9	1146.2	1326.7	1535.4	1777.0	2014.9	2251.2	2466.9	2675.6
-50°	667.3	781.7	901.8	1038.0	1187.0	1356.2	1556.8	1778.0	1993.8	2215.3	2422.0
-52.5°	618.0	711.2	819.7	933.4	1061.0	1201.0	1361.7	1543.4	1739.6	1927.6	2133.8
-55°	566.7	650.8	738.4	838.5	944.6	1062.8	1194.6	1347.2	1497.0	1670.8	1839.1
-57.5°	520.0	590.9	665.6	748.3	840.4	935.0	1050.2	1169.0	1304.9	1440.0	1573.3
-60°	476.0	533.9	597.3	667.3	741.3	825.5	911.5	1013.5	1122.9	1230.8	1343.9
-62.5°	431.6	480.3	531.9	590.1	654.6	718.3	791.7	870.2	950.8	1042.2	1131.4
-65°	385.9	425.3	469.1	517.3	568.8	623.0	679.4	737.6	806.1	873.1	937.9
-67.5°	337.4	371.1	406.6	444.5	487.7	530.3	572.7	621.9	672.3	721.9	773.3
-70°	283.7	315.5	345.0	375.8	407.9	441.3	477.5	513.6	549.1	586.3	627.5
-72.5°	229.0	258.3	284.3	307.0	333.4	361.1	387.6	412.9	439.8	467.9	495.9
-75°	182.6	202.0	225.2	246.4	267.4	286.9	304.4	325.8	348.2	368.7	385.6
-77.5°	142.5	160.1	176.0	190.2	206.9	226.5	243.5	258.1	272.3	287.9	304.3
-80°	103.7	118.3	132.7	145.9	155.5	166.6	179.6	194.6	207.5	218.1	227.7
-82.5°	67.0	77.5	88.3	99.2	103.7	106.7	109.5	114.7	122.8	130.7	138.3
-85°	33.4	36.5	43.0	49.8	52.1	53.7	54.8	55.4	58.1	60.7	62.8
-87.5°	16.7	18.2	19.8	21.3	20.5	19.4	18.0	16.4	16.0	15.6	15.0
-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: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-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°	1.0	1.0	1.0	1.1	1.1	0.8	0.6	0.3	0.0	0.0	0.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	0.9	0.6
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	0.8
65°	1.6	1.6	1.7	1.6	1.5	1.4	1.5	1.4	1.3	1.0	0.7
62.5°	2.9	3.3	2.6	2.6	2.5	2.4	2.3	2.2	2.1	2.0	2.0
60°	18.2	10.8	6.3	7.3	6.6	4.4	5.6	6.5	6.6	6.0	5.3
57.5°	100.7	75.2	55.6	132.9	133.3	63.6	76.6	120.5	99.2	32.6	30.3
55°	280.0	334.9	440.8	418.7	425.5	489.4	534.4	473.0	463.7	494.1	570.8
52.5°	503.0	555.4	591.0	624.3	664.9	708.4	753.3	781.9	808.6	837.0	854.0
50°	642.4	716.1	766.8	748.1	853.0	896.0	852.4	891.4	938.9	951.9	958.0
47.5°	948.5	1056.7	1078.1	1147.8	1210.4	1209.1	1155.9	1159.0	1300.4	1425.2	1486.5
45°	1363.2	1366.8	1434.8	1557.9	1645.8	1618.1	1692.3	1861.1	1917.2	1971.5	2016.0
42.5°	1524.7	1591.6	1700.2	1808.9	1874.5	1931.3	1986.3	2048.3	2121.2	2180.4	2227.6
40°	1681.1	1735.1	1846.2	1933.8	1988.1	2041.2	2105.2	2173.9	2240.6	2292.6	2328.1
37.5°	1921.9	1963.7	1990.7	2072.1	2174.8	2127.4	2248.8	2335.9	2375.7	2428.5	2433.3
35°	2286.1	2258.3	2222.3	2546.0	2565.3	2456.0	2569.6	2704.6	2633.5	2781.7	2861.4
32.5°	2609.0	2604.8	2887.4	3057.6	2959.6	3039.6	3301.5	3289.9	3464.4	3545.4	3522.3
30°	2913.2	3017.0	3180.4	3307.1	3324.1	3450.1	3566.4	3668.3	3773.7	3868.2	3874.7
27.5°	3067.6	3203.0	3314.0	3387.3	3469.1	3575.2	3680.8	3795.5	3885.1	3944.3	3958.8
25°	3161.0	3299.4	3383.4	3462.3	3552.7	3644.2	3762.4	3887.3	3959.3	3995.8	4007.5
22.5°	3243.3	3367.7	3458.0	3522.0	3619.3	3717.7	3827.9	3933.7	4011.9	4027.8	4033.7
20°	3322.6	3442.1	3592.9	3687.2	3682.5	3793.4	3899.6	3983.7	4048.9	4048.5	4050.1
17.5°	3552.0	3594.6	3868.3	4076.1	3973.2	3918.9	4210.9	4216.5	4233.8	4199.3	4124.6
15°	3891.5	3969.2	4305.4	4530.6	4459.7	4456.0	4877.8	4773.2	4863.1	4839.6	4940.9
12.5°	4251.2	4343.1	4594.4	4815.6	4920.9	4946.9	5087.7	5219.7	5246.8	5236.1	5216.2
10°	4496.2	4627.1	4728.1	4862.4	4968.7	5077.1	5158.7	5253.4	5284.5	5266.6	5241.2
7.5°	4528.1	4657.5	4776.0	4893.8	4995.1	5082.5	5167.1	5244.3	5275.9	5265.4	5248.0
5°	4548.4	4665.6	4780.5	4900.0	4996.8	5077.8	5162.2	5240.4	5259.0	5246.4	5229.4
2.5°	4560.9	4669.4	4780.1	4899.1	4987.1	5064.1	5149.6	5233.0	5232.8	5227.3	5217.4
0°	4567.0	4675.8	4804.4	4912.0	5010.5	5083.4	5167.9	5249.0	5243.2	5228.2	5210.8
-2.5°	4580.0	4690.3	4821.4	4910.7	5021.7	5088.5	5175.8	5246.0	5243.3	5235.9	5227.4
-5°	4591.6	4715.6	4838.3	4932.2	5043.4	5130.8	5217.6	5272.5	5275.5	5265.2	5250.7
-7.5°	4598.7	4736.1	4853.2	4947.5	5055.4	5157.0	5245.1	5302.7	5303.9	5290.2	5272.9
-10°	4596.3	4741.5	4861.9	4959.4	5069.9	5170.2	5262.3	5335.4	5332.9	5319.9	5305.1
-12.5°	4587.6	4732.6	4856.3	4954.1	5079.5	5182.8	5286.4	5359.1	5362.9	5353.1	5337.1
-15°	4568.6	4718.2	4838.6	4945.3	5068.3	5189.0	5295.5	5375.6	5389.9	5381.9	5369.2
-17.5°	4530.8	4688.8	4816.5	4931.4	5049.4	5178.1	5299.2	5386.8	5406.4	5403.2	5392.7
-20°	4481.3	4644.3	4773.9	4894.4	5022.8	5155.4	5296.3	5376.3	5404.7	5406.5	5399.4

Classified

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

Scaled Data Report



REPORT NUMBER: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4425.6	4585.2	4722.8	4841.2	4980.4	5114.6	5242.2	5336.0	5383.7	5392.5	5393.1
-25°	4359.0	4522.9	4659.6	4785.7	4915.2	5053.8	5182.7	5287.4	5335.7	5358.8	5366.0
-27.5°	4264.8	4434.2	4568.6	4702.0	4833.7	4976.9	5112.4	5226.3	5265.6	5297.3	5310.0
-30°	4154.4	4322.0	4459.0	4580.9	4731.7	4877.6	5017.5	5116.8	5176.1	5212.4	5232.2
-32.5°	4027.4	4196.7	4340.5	4467.8	4611.0	4757.0	4888.6	4993.3	5075.0	5116.9	5138.1
-35°	3889.8	4062.5	4213.1	4347.2	4482.1	4621.3	4757.6	4867.2	4960.3	4996.2	5022.8
-37.5°	3723.8	3914.3	4068.7	4207.0	4335.2	4466.0	4607.9	4733.2	4823.6	4858.5	4886.6
-40°	3553.6	3737.7	3893.4	4040.9	4167.7	4310.5	4447.2	4578.5	4657.0	4697.7	4729.4
-42.5°	3373.8	3540.2	3688.3	3831.6	3972.7	4119.7	4256.3	4392.8	4460.7	4509.7	4548.6
-45°	3166.4	3321.2	3465.1	3599.2	3744.6	3889.2	4025.9	4146.5	4227.2	4291.1	4340.8
-47.5°	2889.8	3078.4	3222.9	3350.4	3494.6	3634.0	3766.5	3880.0	3968.5	4043.2	4100.9
-50°	2608.9	2789.9	2952.9	3096.1	3229.9	3358.8	3485.0	3595.9	3689.6	3770.5	3829.0
-52.5°	2332.3	2501.8	2663.6	2811.5	2940.0	3061.8	3177.2	3288.8	3387.5	3474.1	3530.7
-55°	2019.6	2195.3	2355.3	2493.2	2621.7	2742.0	2855.9	2961.8	3059.1	3147.2	3201.4
-57.5°	1726.4	1880.5	2029.3	2156.7	2278.0	2392.6	2500.6	2601.9	2695.5	2778.5	2830.7
-60°	1456.8	1569.2	1697.3	1814.8	1922.4	2019.9	2120.7	2215.2	2301.1	2374.1	2422.8
-62.5°	1218.6	1311.7	1404.2	1493.6	1580.8	1668.4	1752.8	1831.2	1903.0	1962.8	2005.4
-65°	1006.3	1081.2	1148.0	1211.4	1271.8	1340.9	1405.1	1465.4	1521.3	1567.1	1599.6
-67.5°	828.6	881.2	927.5	970.9	1018.6	1067.4	1113.2	1153.1	1187.2	1214.3	1235.8
-70°	668.2	706.9	741.8	776.5	811.2	843.0	873.3	902.6	930.5	953.2	970.3
-72.5°	523.4	549.8	573.5	600.2	625.2	649.3	670.3	687.2	700.3	713.1	724.3
-75°	399.0	418.8	445.6	468.2	486.9	503.4	518.6	532.1	544.0	554.5	563.8
-77.5°	320.9	337.8	354.8	371.3	387.3	399.2	410.2	421.2	432.0	441.3	449.5
-80°	237.8	250.4	263.6	276.8	290.0	296.6	301.8	306.6	310.9	316.5	321.7
-82.5°	145.4	152.5	159.9	167.3	174.7	176.5	177.2	177.0	176.0	174.0	171.0
-85°	64.7	65.1	64.9	64.2	62.9	60.4	57.2	53.6	49.5	48.9	48.1
-87.5°	14.3	13.9	13.6	13.1	12.6	12.6	12.5	12.4	12.3	12.7	13.1
-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: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
85°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.1	1.1
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	0.6	0.0	0.6	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.0	0.6	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	0.4	0.1	0.0	0.0	0.0	0.1	0.4	0.8	1.1	1.2	1.2
65°	0.4	0.1	0.0	0.0	0.0	0.1	0.4	0.7	1.0	1.3	1.4
62.5°	2.1	2.2	2.3	2.3	2.3	2.2	2.1	2.0	2.0	2.1	2.2
60°	4.2	2.7	2.3	2.3	2.3	2.7	4.2	5.3	6.0	6.6	6.5
57.5°	25.6	19.1	16.3	15.1	16.3	19.1	25.6	30.3	32.6	99.2	120.5
55°	625.8	657.6	681.5	692.5	681.5	657.6	625.8	570.8	494.1	463.7	473.0
52.5°	868.9	882.8	890.8	890.5	890.8	882.8	868.9	854.0	837.0	808.6	781.9
50°	968.5	975.2	977.6	976.2	977.6	975.2	968.5	958.0	951.9	938.9	891.4
47.5°	1430.5	1306.7	1215.7	1193.9	1215.7	1306.7	1430.5	1486.5	1425.2	1300.4	1159.0
45°	2037.4	2084.4	2131.2	2145.7	2131.2	2084.4	2037.4	2016.0	1971.5	1917.2	1861.1
42.5°	2247.6	2262.9	2271.6	2271.9	2271.6	2262.9	2247.6	2227.6	2180.4	2121.2	2048.3
40°	2347.9	2362.3	2370.7	2371.5	2370.7	2362.3	2347.9	2328.1	2292.6	2240.6	2173.9
37.5°	2439.0	2451.3	2459.4	2467.6	2459.4	2451.3	2439.0	2433.3	2428.5	2375.7	2335.9
35°	2850.6	2757.4	2623.3	2643.6	2623.3	2757.4	2850.6	2861.4	2781.7	2633.5	2704.6
32.5°	3558.4	3597.6	3622.1	3663.8	3622.1	3597.6	3558.4	3522.3	3545.4	3464.4	3289.9
30°	3885.0	3898.0	3917.6	3938.2	3917.6	3898.0	3885.0	3874.7	3868.2	3773.7	3668.3
27.5°	3966.5	3979.9	3991.8	4000.7	3991.8	3979.9	3966.5	3958.8	3944.3	3885.1	3795.5
25°	4009.1	4017.5	4030.2	4041.3	4030.2	4017.5	4009.1	4007.5	3995.8	3959.3	3887.3
22.5°	4030.3	4031.2	4041.1	4055.2	4041.1	4031.2	4030.3	4033.7	4027.8	4011.9	3933.7
20°	4044.8	4037.0	4047.2	4056.3	4047.2	4037.0	4044.8	4050.1	4048.5	4048.9	3983.7
17.5°	4230.0	4124.4	4080.9	4081.8	4080.9	4124.4	4230.0	4124.6	4199.3	4233.8	4216.5
15°	4827.2	4866.8	5018.7	5100.8	5018.7	4866.8	4827.2	4940.9	4839.6	4863.1	4773.2
12.5°	5212.6	5198.5	5180.4	5205.0	5180.4	5198.5	5212.6	5216.2	5236.1	5246.8	5219.7
10°	5230.4	5228.8	5196.6	5231.6	5196.6	5228.8	5230.4	5241.2	5266.6	5284.5	5253.4
7.5°	5219.4	5220.4	5206.8	5240.9	5206.8	5220.4	5219.4	5248.0	5265.4	5275.9	5244.3
5°	5226.7	5203.2	5212.1	5231.6	5212.1	5203.2	5226.7	5229.4	5246.4	5259.0	5240.4
2.5°	5206.5	5204.0	5186.7	5200.4	5186.7	5204.0	5206.5	5217.4	5227.3	5232.8	5233.0
0°	5191.1	5178.4	5178.4	5190.0	5178.4	5178.4	5191.1	5210.8	5228.2	5243.2	5249.0
-2.5°	5218.5	5215.8	5214.1	5206.2	5214.1	5215.8	5218.5	5227.4	5235.9	5243.3	5246.0
-5°	5241.0	5234.1	5215.1	5240.9	5215.1	5234.1	5241.0	5250.7	5265.2	5275.5	5272.5
-7.5°	5265.2	5247.7	5229.6	5269.8	5229.6	5247.7	5265.2	5272.9	5290.2	5303.9	5302.7
-10°	5287.4	5261.9	5244.4	5283.7	5244.4	5261.9	5287.4	5305.1	5319.9	5332.9	5335.4
-12.5°	5316.5	5286.8	5275.2	5296.5	5275.2	5286.8	5316.5	5337.1	5353.1	5362.9	5359.1
-15°	5347.7	5327.2	5324.4	5337.0	5324.4	5327.2	5347.7	5369.2	5381.9	5389.9	5375.6
-17.5°	5375.2	5360.7	5367.8	5382.2	5367.8	5360.7	5375.2	5392.7	5403.2	5406.4	5386.8
-20°	5388.2	5380.1	5388.2	5423.9	5388.2	5380.1	5388.2	5399.4	5406.5	5404.7	5376.3



REPORT NUMBER: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5387.1	5387.6	5401.8	5413.4	5401.8	5387.6	5387.1	5393.1	5392.5	5383.7	5336.0
-25°	5366.5	5377.4	5393.6	5416.9	5393.6	5377.4	5366.5	5366.0	5358.8	5335.7	5287.4
-27.5°	5316.9	5334.9	5351.9	5376.4	5351.9	5334.9	5316.9	5310.0	5297.3	5265.6	5226.3
-30°	5245.3	5266.7	5281.8	5308.1	5281.8	5266.7	5245.3	5232.2	5212.4	5176.1	5116.8
-32.5°	5158.1	5182.3	5200.2	5218.9	5200.2	5182.3	5158.1	5138.1	5116.9	5075.0	4993.3
-35°	5049.0	5075.1	5094.2	5111.2	5094.2	5075.1	5049.0	5022.8	4996.2	4960.3	4867.2
-37.5°	4918.0	4946.1	4967.8	4987.3	4967.8	4946.1	4918.0	4886.6	4858.5	4823.6	4733.2
-40°	4765.4	4794.2	4817.4	4839.1	4817.4	4794.2	4765.4	4729.4	4697.7	4657.0	4578.5
-42.5°	4586.9	4616.1	4640.0	4661.9	4640.0	4616.1	4586.9	4548.6	4509.7	4460.7	4392.8
-45°	4380.8	4410.8	4436.1	4459.3	4436.1	4410.8	4380.8	4340.8	4291.1	4227.2	4146.5
-47.5°	4143.4	4175.5	4197.2	4208.0	4197.2	4175.5	4143.4	4100.9	4043.2	3968.5	3880.0
-50°	3871.4	3903.5	3929.4	3948.6	3929.4	3903.5	3871.4	3829.0	3770.5	3689.6	3595.9
-52.5°	3572.0	3602.5	3624.8	3638.3	3624.8	3602.5	3572.0	3530.7	3474.1	3387.5	3288.8
-55°	3244.1	3276.0	3297.2	3307.1	3297.2	3276.0	3244.1	3201.4	3147.2	3059.1	2961.8
-57.5°	2872.1	2902.5	2925.0	2937.7	2925.0	2902.5	2872.1	2830.7	2778.5	2695.5	2601.9
-60°	2460.7	2487.9	2504.9	2511.6	2504.9	2487.9	2460.7	2422.8	2374.1	2301.1	2215.2
-62.5°	2039.9	2065.6	2081.6	2087.8	2081.6	2065.6	2039.9	2005.4	1962.8	1903.0	1831.2
-65°	1623.8	1639.9	1648.8	1650.1	1648.8	1639.9	1623.8	1599.6	1567.1	1521.3	1465.4
-67.5°	1252.7	1265.0	1272.4	1274.9	1272.4	1265.0	1252.7	1235.8	1214.3	1187.2	1153.1
-70°	983.0	991.4	996.2	997.0	996.2	991.4	983.0	970.3	953.2	930.5	902.6
-72.5°	732.8	738.9	736.8	731.8	736.8	738.9	732.8	724.3	713.1	700.3	687.2
-75°	571.7	578.4	575.6	570.9	575.6	578.4	571.7	563.8	554.5	544.0	532.1
-77.5°	456.7	462.8	459.8	455.1	459.8	462.8	456.7	449.5	441.3	432.0	421.2
-80°	326.1	329.7	332.2	333.5	332.2	329.7	326.1	321.7	316.5	310.9	306.6
-82.5°	167.0	162.1	159.0	155.2	159.0	162.1	167.0	171.0	174.0	176.0	177.0
-85°	47.2	46.1	46.8	47.5	46.8	46.1	47.2	48.1	48.9	49.5	53.6
-87.5°	13.5	13.8	13.9	13.9	13.9	13.8	13.5	13.1	12.7	12.3	12.4
-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: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	0.6	0.8	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.8
85°	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.4
65°	1.5	1.4	1.5	1.6	1.7	1.6	1.6	1.7	1.7	1.6	1.5
62.5°	2.3	2.4	2.5	2.6	2.6	3.3	2.9	2.9	2.7	3.3	4.5
60°	5.6	4.4	6.6	7.3	6.3	10.8	18.2	16.4	4.8	26.2	30.2
57.5°	76.6	63.6	133.3	132.9	55.6	75.2	100.7	66.3	43.4	74.2	98.1
55°	534.4	489.4	425.5	418.7	440.8	334.9	280.0	269.4	210.9	137.1	162.8
52.5°	753.3	708.4	664.9	624.3	591.0	555.4	503.0	446.4	428.3	344.9	266.0
50°	852.4	896.0	853.0	748.1	766.8	716.1	642.4	582.2	594.5	543.5	438.2
47.5°	1155.9	1209.1	1210.4	1147.8	1078.1	1056.7	948.5	760.7	773.2	771.0	659.5
45°	1692.3	1618.1	1645.8	1557.9	1434.8	1366.8	1363.2	1162.2	976.1	945.8	935.0
42.5°	1986.3	1931.3	1874.5	1808.9	1700.2	1591.6	1524.7	1411.6	1262.0	1129.5	1082.5
40°	2105.2	2041.2	1988.1	1933.8	1846.2	1735.1	1681.1	1532.7	1420.2	1305.5	1267.3
37.5°	2248.8	2127.4	2174.8	2072.1	1990.7	1963.7	1921.9	1767.4	1518.0	1497.1	1477.7
35°	2569.6	2456.0	2565.3	2546.0	2222.3	2258.3	2286.1	2096.3	1835.2	1693.6	1696.7
32.5°	3301.5	3039.6	2959.6	3057.6	2887.4	2604.8	2609.0	2551.2	2194.9	1988.9	1898.8
30°	3566.4	3450.1	3324.1	3307.1	3180.4	3017.0	2913.2	2774.2	2514.9	2279.9	2125.4
27.5°	3680.8	3575.2	3469.1	3387.3	3314.0	3203.0	3067.6	2904.4	2719.9	2509.3	2359.2
25°	3762.4	3644.2	3552.7	3462.3	3383.4	3299.4	3161.0	3002.0	2829.9	2660.1	2498.9
22.5°	3827.9	3717.7	3619.3	3522.0	3458.0	3367.7	3243.3	3079.2	2963.7	2855.7	2646.2
20°	3899.6	3793.4	3682.5	3687.2	3592.9	3442.1	3322.6	3240.9	3225.1	3103.6	2833.1
17.5°	4210.9	3918.9	3973.2	4076.1	3868.3	3594.6	3552.0	3556.5	3506.3	3393.4	3057.1
15°	4877.8	4456.0	4459.7	4530.6	4305.4	3969.2	3891.5	3882.0	3803.0	3678.1	3293.6
12.5°	5087.7	4946.9	4920.9	4815.6	4594.4	4343.1	4251.2	4201.3	4056.4	3814.8	3463.8
10°	5158.7	5077.1	4968.7	4862.4	4728.1	4627.1	4496.2	4315.1	4109.3	3876.3	3590.6
7.5°	5167.1	5082.5	4995.1	4893.8	4776.0	4657.5	4528.1	4348.1	4149.1	3920.6	3679.9
5°	5162.2	5077.8	4996.8	4900.0	4780.5	4665.6	4548.4	4370.3	4176.0	3949.5	3738.6
2.5°	5149.6	5064.1	4987.1	4899.1	4780.1	4669.4	4560.9	4394.3	4195.2	3973.4	3758.3
0°	5167.9	5083.4	5010.5	4912.0	4804.4	4675.8	4567.0	4418.8	4204.5	3989.2	3765.7
-2.5°	5175.8	5088.5	5021.7	4910.7	4821.4	4690.3	4580.0	4436.8	4222.0	4017.1	3783.6
-5°	5217.6	5130.8	5043.4	4932.2	4838.3	4715.6	4591.6	4444.1	4235.1	4032.2	3791.7
-7.5°	5245.1	5157.0	5055.4	4947.5	4853.2	4736.1	4598.7	4444.8	4247.2	4032.0	3795.5
-10°	5262.3	5170.2	5069.9	4959.4	4861.9	4741.5	4596.3	4441.0	4244.7	4022.6	3787.0
-12.5°	5286.4	5182.8	5079.5	4954.1	4856.3	4732.6	4587.6	4432.1	4226.6	4005.0	3765.3
-15°	5295.5	5189.0	5068.3	4945.3	4838.6	4718.2	4568.6	4405.9	4194.8	3977.8	3729.9
-17.5°	5299.2	5178.1	5049.4	4931.4	4816.5	4688.8	4530.8	4357.8	4154.1	3929.9	3683.2
-20°	5296.3	5155.4	5022.8	4894.4	4773.9	4644.3	4481.3	4309.9	4095.9	3867.8	3622.7



REPORT NUMBER: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5242.2	5114.6	4980.4	4841.2	4722.8	4585.2	4425.6	4248.3	4020.3	3799.7	3545.7
-25°	5182.7	5053.8	4915.2	4785.7	4659.6	4522.9	4359.0	4157.9	3941.3	3711.8	3452.3
-27.5°	5112.4	4976.9	4833.7	4702.0	4568.6	4434.2	4264.8	4062.2	3853.6	3602.7	3350.8
-30°	5017.5	4877.6	4731.7	4580.9	4459.0	4322.0	4154.4	3957.6	3733.7	3486.0	3246.1
-32.5°	4888.6	4757.0	4611.0	4467.8	4340.5	4196.7	4027.4	3832.2	3597.1	3362.8	3113.3
-35°	4757.6	4621.3	4482.1	4347.2	4213.1	4062.5	3889.8	3677.2	3452.6	3220.5	2961.6
-37.5°	4607.9	4466.0	4335.2	4207.0	4068.7	3914.3	3723.8	3518.4	3299.4	3044.2	2797.8
-40°	4447.2	4310.5	4167.7	4040.9	3893.4	3737.7	3553.6	3353.9	3113.0	2860.8	2629.2
-42.5°	4256.3	4119.7	3972.7	3831.6	3688.3	3540.2	3373.8	3157.9	2919.1	2681.2	2440.7
-45°	4025.9	3889.2	3744.6	3599.2	3465.1	3321.2	3166.4	2936.1	2700.3	2473.6	2242.8
-47.5°	3766.5	3634.0	3494.6	3350.4	3222.9	3078.4	2889.8	2675.6	2466.9	2251.2	2014.9
-50°	3485.0	3358.8	3229.9	3096.1	2952.9	2789.9	2608.9	2422.0	2215.3	1993.8	1778.0
-52.5°	3177.2	3061.8	2940.0	2811.5	2663.6	2501.8	2332.3	2133.8	1927.6	1739.6	1543.4
-55°	2855.9	2742.0	2621.7	2493.2	2355.3	2195.3	2019.6	1839.1	1670.8	1497.0	1347.2
-57.5°	2500.6	2392.6	2278.0	2156.7	2029.3	1880.5	1726.4	1573.3	1440.0	1304.9	1169.0
-60°	2120.7	2019.9	1922.4	1814.8	1697.3	1569.2	1456.8	1343.9	1230.8	1122.9	1013.5
-62.5°	1752.8	1668.4	1580.8	1493.6	1404.2	1311.7	1218.6	1131.4	1042.2	950.8	870.2
-65°	1405.1	1340.9	1271.8	1211.4	1148.0	1081.2	1006.3	937.9	873.1	806.1	737.6
-67.5°	1113.2	1067.4	1018.6	970.9	927.5	881.2	828.6	773.3	721.9	672.3	621.9
-70°	873.3	843.0	811.2	776.5	741.8	706.9	668.2	627.5	586.3	549.1	513.6
-72.5°	670.3	649.3	625.2	600.2	573.5	549.8	523.4	495.9	467.9	439.8	412.9
-75°	518.6	503.4	486.9	468.2	445.6	418.8	399.0	385.6	368.7	348.2	325.8
-77.5°	410.2	399.2	387.3	371.3	354.8	337.8	320.9	304.3	287.9	272.3	258.1
-80°	301.8	296.6	290.0	276.8	263.6	250.4	237.8	227.7	218.1	207.5	194.6
-82.5°	177.2	176.5	174.7	167.3	159.9	152.5	145.4	138.3	130.7	122.8	114.7
-85°	57.2	60.4	62.9	64.2	64.9	65.1	64.7	62.8	60.7	58.1	55.4
-87.5°	12.5	12.6	12.6	13.1	13.6	13.9	14.3	15.0	15.6	16.0	16.4
-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: P645455 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4B-730-U-LAM-VSR-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°	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.6	0.6	0.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.1	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.8	1.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.5	1.8	2.1
75°	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.3	1.6	1.8	2.1
72.5°	1.2	1.2	1.2	1.3	1.5	1.5	1.4	1.3	1.6	1.8	2.1
70°	1.4	1.3	1.2	1.4	1.7	1.9	1.8	1.9	1.6	1.9	2.1
67.5°	1.7	1.8	1.6	1.6	1.7	2.0	2.2	2.6	2.6	1.9	2.2
65°	1.8	2.1	2.4	3.3	2.9	2.0	2.3	4.5	3.6	3.1	2.2
62.5°	3.8	2.1	7.3	9.8	5.5	4.3	3.4	10.1	6.3	4.3	3.1
60°	9.1	7.5	20.4	32.7	22.8	7.7	11.3	17.5	16.1	5.5	4.3
57.5°	84.9	29.2	42.3	61.2	60.1	32.6	23.8	31.7	27.3	15.7	6.1
55°	181.2	152.5	100.7	92.2	99.7	80.5	52.3	51.4	42.2	29.2	9.9
52.5°	248.7	259.5	225.9	157.8	137.4	131.0	102.3	74.5	66.2	43.9	25.3
50°	360.0	335.3	331.9	278.6	192.7	174.4	151.0	116.4	92.8	62.7	42.9
47.5°	508.6	446.7	414.0	390.1	307.5	222.3	198.0	159.2	122.2	90.4	61.2
45°	726.8	577.4	514.0	475.2	421.4	312.7	247.8	200.7	159.3	121.3	80.4
42.5°	945.9	746.6	628.3	565.6	509.6	414.8	301.1	248.7	195.4	152.7	104.7
40°	1139.3	921.0	748.4	667.8	596.2	513.4	387.4	300.0	230.8	185.1	132.4
37.5°	1372.2	1119.6	886.6	774.8	688.5	595.7	474.9	353.5	273.4	219.1	160.1
35°	1597.5	1376.7	1041.2	904.2	791.2	680.1	559.2	416.8	325.7	253.7	187.8
32.5°	1839.4	1618.5	1274.8	1048.7	897.5	766.3	637.9	493.8	378.3	288.7	215.5
30°	2029.8	1777.7	1479.8	1193.3	1013.2	862.6	716.6	567.7	431.1	324.0	243.4
27.5°	2130.7	1915.4	1641.6	1354.4	1143.4	961.3	797.6	638.3	483.7	362.7	272.4
25°	2235.1	2012.4	1757.2	1495.3	1272.0	1065.8	878.3	705.6	541.2	406.5	301.1
22.5°	2360.0	2094.9	1854.7	1607.0	1404.6	1171.8	963.0	773.7	598.7	449.4	329.4
20°	2485.4	2171.5	1950.9	1758.9	1534.7	1286.4	1051.5	840.2	652.9	491.1	357.1
17.5°	2617.1	2310.6	2114.3	1907.2	1664.4	1397.4	1138.7	904.6	703.7	531.6	384.0
15°	2846.2	2518.8	2278.8	2051.4	1793.5	1504.2	1223.7	966.5	751.2	570.4	409.0
12.5°	3054.2	2712.7	2443.4	2190.9	1920.4	1606.1	1305.8	1025.3	795.1	601.4	431.3
10°	3226.3	2892.5	2606.2	2324.8	2043.6	1702.3	1384.0	1073.3	821.5	624.5	451.8
7.5°	3367.3	3058.7	2764.9	2452.3	2149.4	1765.1	1423.5	1101.3	841.9	644.2	470.5
5°	3469.1	3169.6	2849.2	2496.7	2182.5	1791.0	1450.3	1124.0	858.4	660.6	487.3
2.5°	3498.5	3203.7	2880.9	2521.0	2204.9	1807.7	1469.4	1141.4	871.0	674.0	502.3
0°	3515.5	3226.1	2900.7	2535.9	2216.3	1815.7	1481.0	1153.3	880.0	684.4	515.3
-2.5°	3539.4	3245.4	2919.8	2574.3	2223.9	1840.0	1487.5	1161.1	891.4	688.1	522.9
-5°	3551.3	3253.0	2929.0	2600.2	2221.9	1854.5	1486.7	1163.6	898.7	689.4	528.4
-7.5°	3546.1	3250.4	2929.4	2608.3	2211.9	1857.8	1478.7	1161.0	901.7	688.4	531.9
-10°	3530.1	3237.2	2918.1	2587.4	2202.7	1844.7	1464.3	1153.6	900.0	685.5	533.2
-12.5°	3505.8	3212.6	2895.3	2557.2	2183.4	1817.6	1447.3	1141.0	892.7	680.7	532.3
-15°	3474.2	3176.8	2860.5	2519.0	2151.7	1781.6	1421.8	1122.6	878.6	675.3	529.2
-17.5°	3433.7	3130.0	2813.7	2473.5	2107.0	1737.0	1387.6	1098.7	860.9	668.8	522.8
-20°	3361.5	3067.3	2754.3	2421.9	2049.0	1684.1	1344.5	1069.2	839.8	659.4	513.7



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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°	3280.3	2989.5	2680.1	2352.3	1979.2	1623.3	1292.4	1034.2	815.5	647.3	502.8
-25°	3193.7	2902.1	2594.0	2255.8	1902.0	1559.1	1240.1	993.6	788.1	632.2	490.1
-27.5°	3092.0	2803.0	2496.4	2149.6	1812.4	1484.6	1190.1	957.7	761.6	614.3	475.7
-30°	2977.7	2686.5	2374.3	2036.3	1714.2	1398.3	1133.9	919.4	739.2	594.7	459.6
-32.5°	2846.6	2558.2	2239.1	1920.4	1610.5	1306.9	1072.0	878.4	713.3	573.9	444.7
-35°	2697.5	2408.8	2095.7	1795.8	1500.6	1233.0	1011.4	834.8	684.0	551.4	429.0
-37.5°	2542.1	2248.5	1952.4	1665.8	1383.8	1153.0	956.9	791.8	651.2	527.4	411.7
-40°	2364.7	2083.6	1802.0	1531.9	1282.6	1067.1	897.9	749.4	620.2	501.7	392.8
-42.5°	2181.9	1910.5	1645.1	1390.1	1182.8	997.2	836.1	703.7	587.5	477.0	372.2
-45°	1984.8	1727.9	1478.3	1270.7	1081.2	923.1	782.1	656.4	552.6	451.7	351.0
-47.5°	1777.0	1535.4	1326.7	1146.2	994.9	848.7	724.6	615.4	516.0	424.5	329.7
-50°	1556.8	1356.2	1187.0	1038.0	901.8	781.7	667.3	572.6	482.4	394.5	307.4
-52.5°	1361.7	1201.0	1061.0	933.4	819.7	711.2	618.0	528.6	447.8	365.8	284.1
-55°	1194.6	1062.8	944.6	838.5	738.4	650.8	566.7	489.5	412.3	337.0	260.5
-57.5°	1050.2	935.0	840.4	748.3	665.6	590.9	520.0	449.6	378.2	307.2	241.8
-60°	911.5	825.5	741.3	667.3	597.3	533.9	476.0	409.7	343.8	277.4	221.1
-62.5°	791.7	718.3	654.6	590.1	531.9	480.3	431.6	370.7	308.4	249.9	198.6
-65°	679.4	623.0	568.8	517.3	469.1	425.3	385.9	330.7	272.9	220.6	175.2
-67.5°	572.7	530.3	487.7	444.5	406.6	371.1	337.4	287.5	235.8	189.9	152.0
-70°	477.5	441.3	407.9	375.8	345.0	315.5	283.7	241.5	197.1	162.3	128.2
-72.5°	387.6	361.1	333.4	307.0	284.3	258.3	229.0	196.1	165.0	134.2	103.9
-75°	304.4	286.9	267.4	246.4	225.2	202.0	182.6	159.6	132.5	105.7	83.8
-77.5°	243.5	226.5	206.9	190.2	176.0	160.1	142.5	122.6	101.0	82.2	64.7
-80°	179.6	166.6	155.5	145.9	132.7	118.3	103.7	89.2	73.5	58.9	45.4
-82.5°	109.5	106.7	103.7	99.2	88.3	77.5	67.0	56.6	45.5	35.2	29.1
-85°	54.8	53.7	52.1	49.8	43.0	36.5	33.4	30.3	26.5	22.9	19.5
-87.5°	18.0	19.4	20.5	21.3	19.8	18.2	16.7	15.2	13.3	11.5	9.8
-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):

	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°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
85°	1.2	1.0	0.8	0.6	0.4	0.3	0.0
82.5°	1.8	1.5	1.2	0.9	0.6	0.4	0.0
80°	2.3	2.0	1.6	1.2	0.8	0.5	0.0
77.5°	2.3	2.3	2.0	1.5	1.0	0.6	0.0
75°	2.3	2.4	2.3	1.8	1.2	0.8	0.0
72.5°	2.4	2.5	2.4	2.1	1.4	0.9	0.0
70°	2.4	2.6	2.5	2.3	1.6	1.0	0.0
67.5°	2.7	2.7	2.7	2.4	1.8	1.1	0.0
65°	3.1	3.1	2.8	2.6	2.0	1.2	0.0
62.5°	3.6	3.8	2.9	2.7	2.2	1.4	0.0
60°	4.3	4.6	3.1	2.8	2.5	1.5	0.0
57.5°	7.9	5.6	3.9	2.9	2.6	1.6	0.0
55°	12.6	6.6	4.9	3.1	2.7	1.7	0.0
52.5°	18.1	8.4	5.9	3.2	2.9	1.8	0.0
50°	24.4	14.4	7.0	3.3	3.0	2.0	0.0
47.5°	32.8	20.8	8.1	3.6	3.1	2.1	0.0
45°	49.5	27.6	9.2	4.5	3.3	2.2	0.0
42.5°	66.7	34.9	10.4	5.4	3.4	2.3	0.0
40°	84.2	42.6	14.0	6.5	3.6	2.4	0.0
37.5°	102.0	50.8	20.1	7.9	3.7	2.5	0.0
35°	120.1	63.1	26.2	9.4	3.9	2.6	0.0
32.5°	139.7	77.3	32.4	11.1	4.0	2.7	0.0
30°	162.2	91.5	38.7	13.0	4.2	2.8	0.0
27.5°	184.2	105.5	46.4	14.9	4.3	2.9	0.0
25°	205.6	119.3	54.3	17.0	4.5	2.9	0.0
22.5°	226.5	133.3	62.2	19.1	4.6	3.0	0.0
20°	246.6	148.4	70.1	21.3	4.8	3.1	0.0
17.5°	266.6	163.0	77.8	23.6	4.9	3.2	0.0
15°	285.7	177.0	85.3	25.8	5.1	3.2	0.0
12.5°	303.6	190.3	92.5	28.1	5.2	3.3	0.0
10°	320.3	203.0	99.4	30.3	5.3	3.3	0.0
7.5°	335.5	214.8	106.0	32.5	5.5	3.4	0.0
5°	349.4	225.6	112.1	34.5	5.6	3.4	0.0
2.5°	361.9	235.5	117.7	36.4	5.7	3.5	0.0
0°	372.9	244.3	122.7	38.2	5.8	3.5	0.0
-2.5°	378.4	249.9	127.4	40.7	6.7	3.7	0.0
-5°	382.3	254.3	131.4	43.0	7.6	3.9	0.0
-7.5°	384.9	257.5	134.6	45.0	8.5	4.1	0.0
-10°	386.0	259.5	137.1	46.8	9.3	4.2	0.0
-12.5°	385.8	260.3	138.7	48.3	10.1	4.4	0.0
-15°	384.3	259.9	139.5	49.5	10.8	4.5	0.0
-17.5°	381.5	258.4	139.4	50.4	11.5	4.7	0.0
-20°	377.1	255.6	138.4	50.9	12.2	4.8	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	370.8	251.7	136.5	51.0	12.7	4.9	0.0
-25°	363.1	245.7	133.6	50.8	13.3	4.9	0.0
-27.5°	353.8	238.1	129.7	50.2	13.7	5.0	0.0
-30°	343.2	229.6	124.8	49.1	14.0	5.0	0.0
-32.5°	331.1	220.0	119.1	47.7	14.3	5.0	0.0
-35°	318.0	209.4	112.8	45.8	14.5	5.0	0.0
-37.5°	303.9	198.7	105.9	43.5	14.6	5.0	0.0
-40°	288.7	189.1	98.3	40.8	14.6	4.9	0.0
-42.5°	272.5	178.7	92.6	37.9	14.5	4.9	0.0
-45°	255.3	167.7	88.6	34.9	14.4	4.8	0.0
-47.5°	237.1	156.1	84.0	31.5	14.1	4.7	0.0
-50°	221.9	143.8	78.7	30.4	13.7	4.5	0.0
-52.5°	206.6	131.0	72.7	29.8	13.3	4.4	0.0
-55°	190.8	121.3	66.0	28.8	12.8	4.2	0.0
-57.5°	174.4	111.4	58.8	27.6	12.2	4.0	0.0
-60°	157.7	100.7	51.1	26.0	11.5	3.7	0.0
-62.5°	142.5	89.0	47.5	24.2	10.8	3.5	0.0
-65°	126.2	76.6	43.3	22.1	10.0	3.2	0.0
-67.5°	108.9	66.2	38.7	19.7	9.2	3.0	0.0
-70°	90.6	58.0	33.7	17.1	8.3	2.7	0.0
-72.5°	76.6	49.1	28.3	15.0	7.4	2.4	0.0
-75°	62.6	39.6	22.5	13.1	6.4	2.1	0.0
-77.5°	48.0	29.7	18.6	11.0	5.4	1.7	0.0
-80°	32.8	22.7	15.0	8.9	4.4	1.4	0.0
-82.5°	24.1	17.1	11.3	6.7	3.3	1.1	0.0
-85°	16.1	11.5	7.6	4.5	2.2	0.7	0.0
-87.5°	8.1	5.8	3.8	2.3	1.1	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)