

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: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA4D-727-U-VWR-XX

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-2019
Report Number: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA4D-727-U-VWR-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N91
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

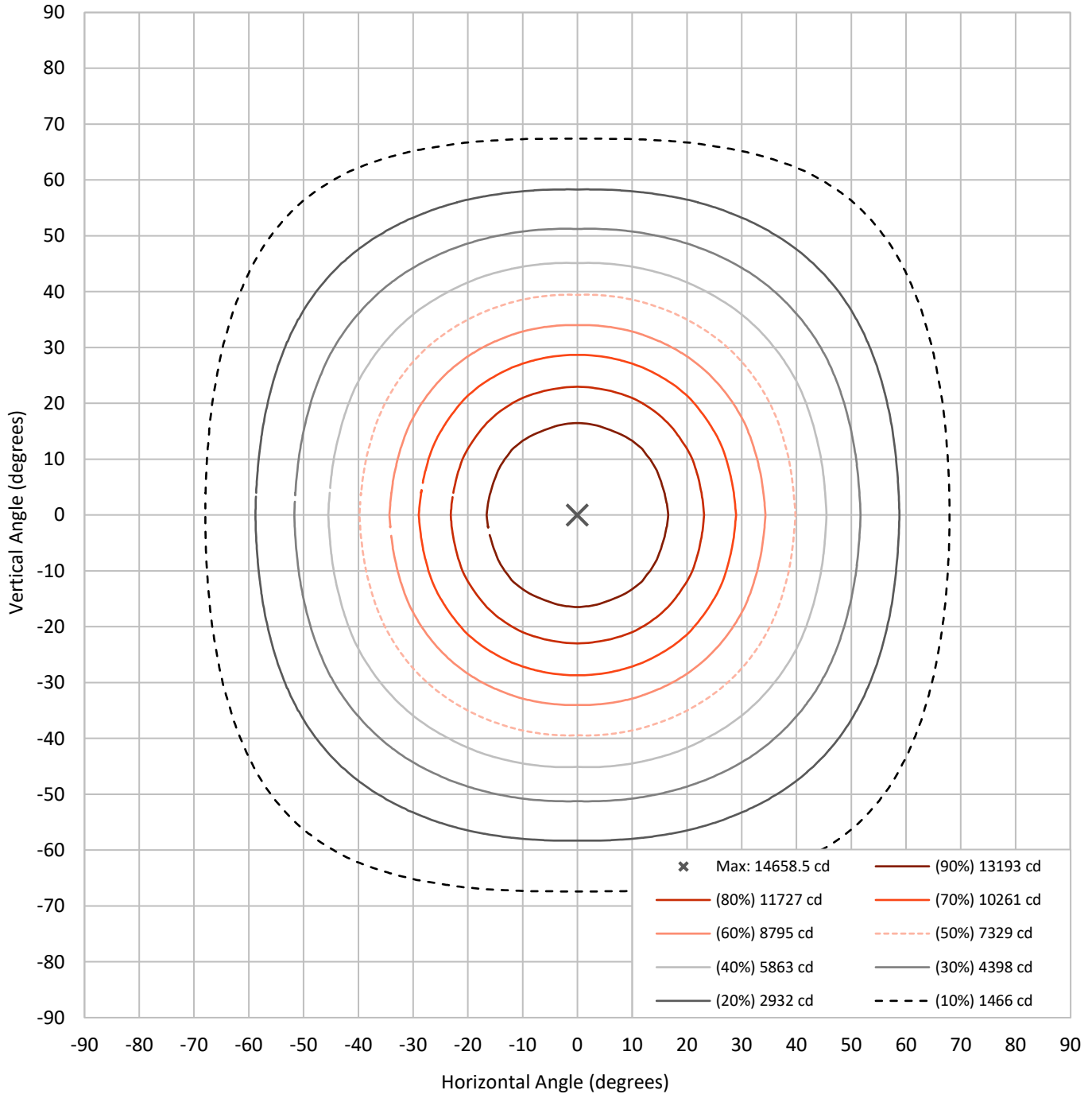
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26494.1 lumens	Max Intensity:	14658.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	79.6°H x 78.9°V	Field Angle (10%):	135.9°H x 134.8°V
Beam Lumens:	15538.9 lumens	Field Lumens:	25257.5 lumens
Beam Efficiency:	58.7%	Field Efficiency:	95.3%
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





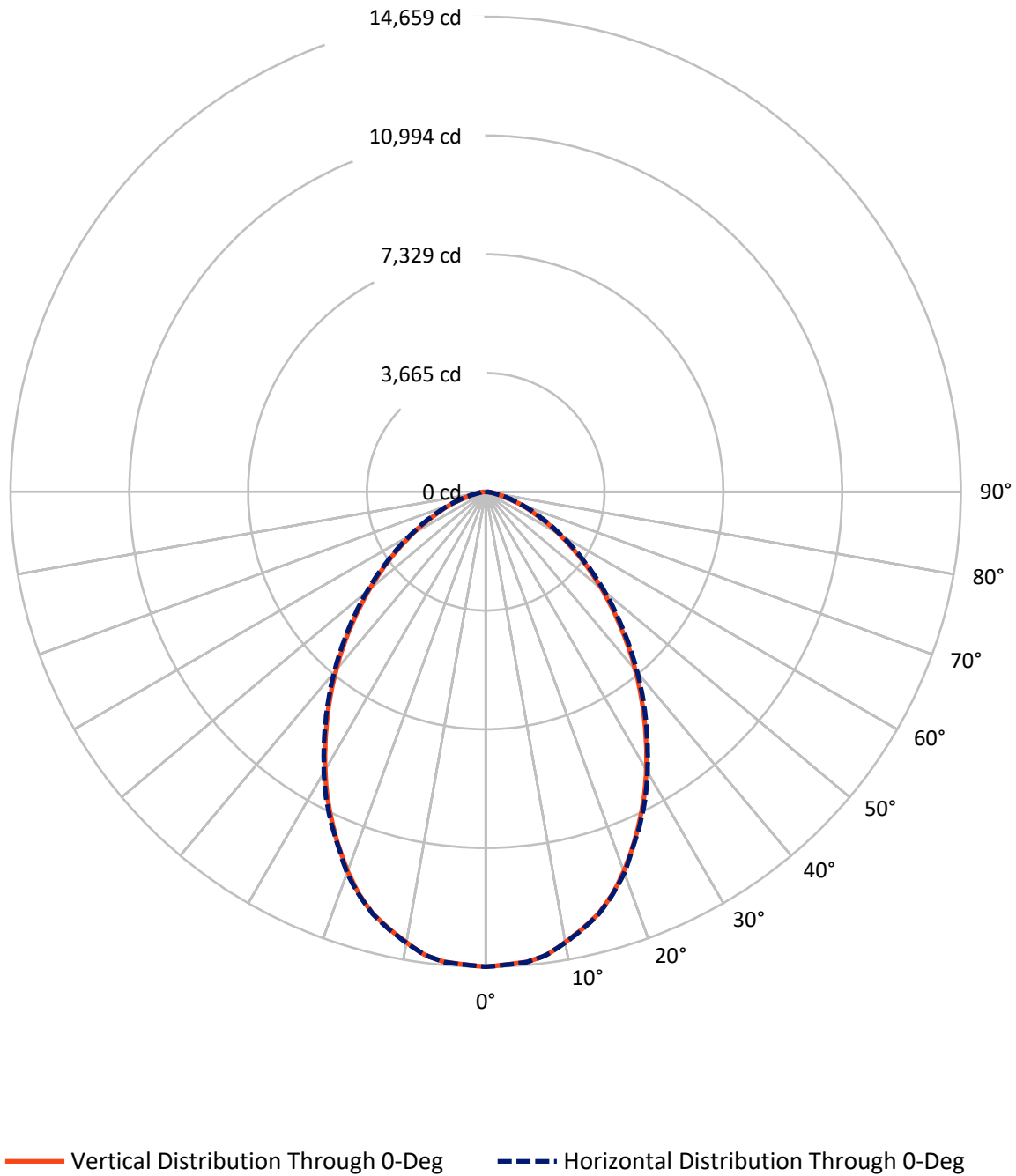
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Lumen Table

90																			
80	0.9	10.9	29.6	50.2	47.3	50.2	29.6	10.9	0.9										
70																			
60	4.9	6.8	13.7	23.4	34.2	44.1	51.7	55.3	55.3	51.7	44.1	34.2	23.4	13.7	6.8	4.9			
50		10.2	22.3	39.7	60.2	81.8	99.5	108.8	108.8	99.5	81.8	60.2	39.7	22.3	10.2				
40	8.6	13.7	32.2	59.5	94.2	130.6	161.1	177.8	177.8	161.1	130.6	94.2	59.5	32.2	13.7	8.6			
30		17.3	42.7	81.9	131.9	185.0	230.3	256.0	256.0	230.3	185.0	131.9	81.9	42.7	17.3				
20	11.1	20.7	52.5	103.0	168.0	238.4	299.9	335.2	335.2	299.9	238.4	168.0	103.0	52.5	20.7	11.1			
10		23.4	60.1	118.7	196.1	281.8	357.4	400.3	400.3	357.4	281.8	196.1	118.7	60.1	23.4				
0	12.1	24.8	64.3	127.7	211.7	305.8	388.4	433.7	433.7	388.4	305.8	211.7	127.7	64.3	24.8	12.1			
-10		24.8	64.3	127.7	211.7	305.8	388.4	433.7	433.7	388.4	305.8	211.7	127.7	64.3	24.8				
-20	11.1	23.4	60.1	118.7	196.1	281.8	357.4	400.3	400.3	357.4	281.8	196.1	118.7	60.1	23.4	11.1			
-30		20.7	52.5	103.0	168.0	238.4	299.9	335.2	335.2	299.9	238.4	168.0	103.0	52.5	20.7				
-40	8.6	17.3	42.7	81.9	131.9	185.0	230.3	256.0	256.0	230.3	185.0	131.9	81.9	42.7	17.3	8.6			
-50		13.7	32.2	59.5	94.2	130.6	161.1	177.8	177.8	161.1	130.6	94.2	59.5	32.2	13.7				
-60	4.9	10.2	22.3	39.7	60.2	81.8	99.5	108.8	108.8	99.5	81.8	60.2	39.7	22.3	10.2	4.9			
-70		6.8	13.7	23.4	34.2	44.1	51.7	55.3	55.3	51.7	44.1	34.2	23.4	13.7	6.8				
-80	0.9	10.9	29.6	50.2	47.3	50.2	29.6	10.9	0.9										
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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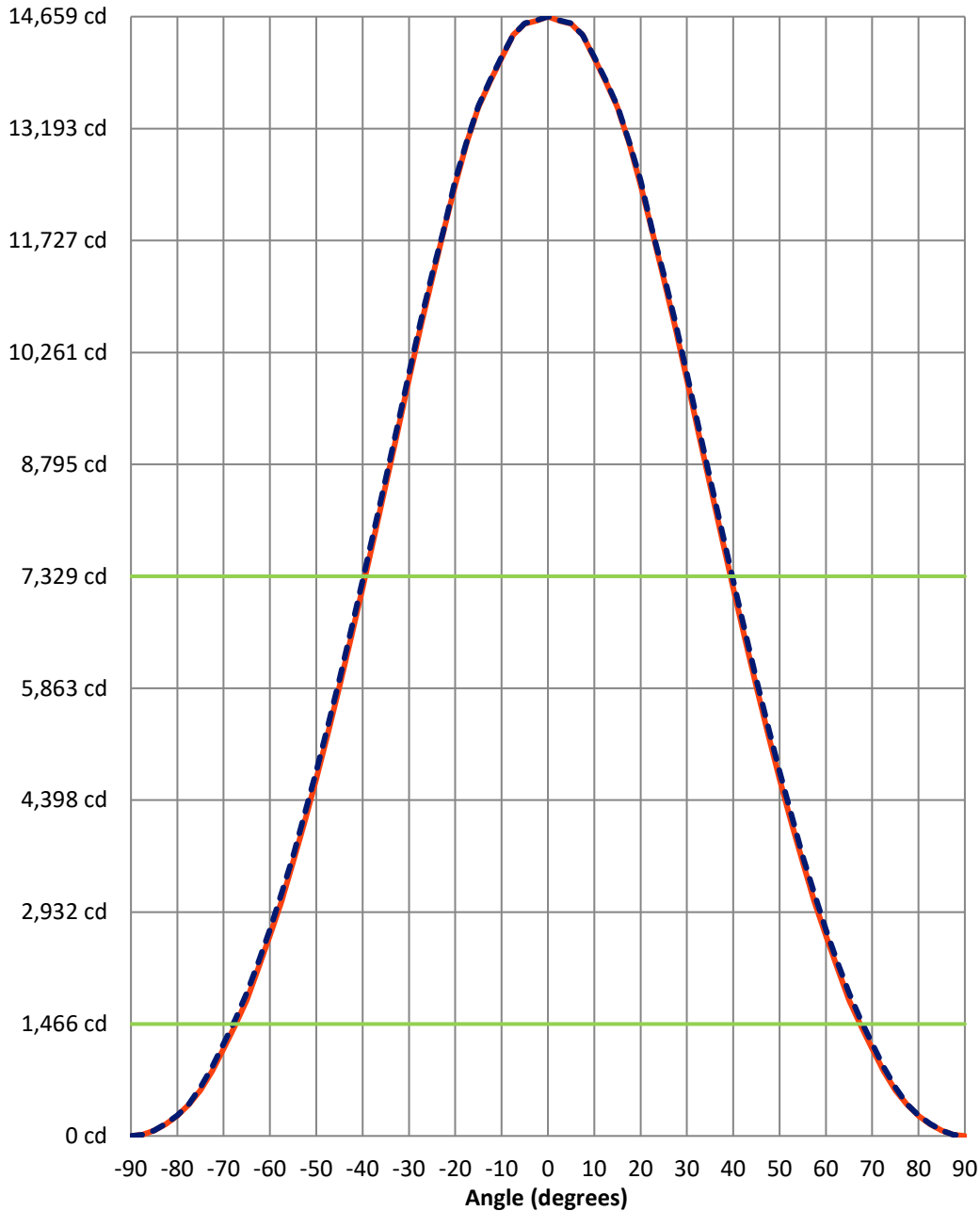
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 79.6°
 V Angle: 78.9°
 Lumens: 15538.9
 Efficiency: 58.7%

Field:
 H Angle: 135.9°
 V Angle: 134.8°
 Lumens: 25257.5
 Efficiency: 95.3%

Spill:
 Lumens: 1236.5
 Efficiency: 4.7%

— 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	0.8	1.9	2.9	3.8	4.8	5.7	6.6	7.5	8.4	9.3
85°	0.0	1.7	3.8	5.7	7.6	9.5	11.4	13.2	15.0	16.8	18.6
82.5°	0.0	2.5	5.7	8.6	11.4	14.2	17.0	19.8	24.8	39.0	52.6
80°	0.0	3.3	7.6	11.4	15.2	19.0	25.6	45.6	64.8	83.3	101.0
77.5°	0.0	4.2	9.5	14.2	19.0	29.7	55.8	81.0	104.6	127.4	155.5
75°	0.0	5.0	11.3	17.0	24.7	51.4	85.2	116.1	145.7	186.3	229.6
72.5°	0.0	5.7	13.1	19.8	39.3	72.4	113.7	153.8	200.3	249.8	302.2
70°	0.0	6.5	14.8	23.7	53.5	92.7	142.2	199.1	253.8	312.1	380.2
67.5°	0.0	7.3	16.5	32.5	67.1	112.1	176.5	243.3	306.1	379.7	457.8
65°	0.0	8.0	18.1	40.9	80.1	133.9	209.2	286.3	362.6	445.3	530.5
62.5°	0.0	8.7	19.7	48.9	92.4	157.8	240.3	331.3	417.2	508.1	595.5
60°	0.0	9.4	21.2	56.5	104.0	180.4	269.6	375.9	469.7	566.8	659.6
57.5°	0.0	10.1	25.5	63.7	119.5	201.6	300.5	417.4	521.6	624.6	720.4
55°	0.0	10.8	29.7	70.3	134.2	221.3	329.7	453.3	572.5	680.3	778.7
52.5°	0.0	11.4	33.7	76.5	147.9	240.0	356.8	490.7	622.3	731.6	835.5
50°	0.0	12.0	37.5	82.1	160.5	259.9	381.5	526.1	669.6	781.4	900.6
47.5°	0.0	12.5	41.2	88.0	172.0	278.0	404.8	559.1	712.4	829.5	964.4
45°	0.0	13.0	44.7	95.6	182.3	294.4	430.6	589.5	745.8	884.0	1025.4
42.5°	0.0	13.5	48.0	102.5	191.5	309.0	454.3	617.4	777.6	936.2	1097.3
40°	0.0	14.0	51.1	109.6	200.7	321.7	475.8	643.9	810.8	985.1	1167.4
37.5°	0.0	14.4	54.0	116.6	209.8	332.6	495.0	669.0	848.0	1031.5	1233.1
35°	0.0	14.8	56.7	123.1	217.6	345.1	512.0	692.6	884.2	1084.9	1299.3
32.5°	0.0	15.2	59.2	129.1	224.1	357.7	527.7	714.7	919.4	1136.2	1369.3
30°	0.0	15.5	61.4	134.6	229.4	368.4	544.0	736.9	953.4	1185.3	1434.8
27.5°	0.0	15.8	63.5	139.5	237.3	377.3	558.7	762.6	988.3	1231.9	1495.6
25°	0.0	16.0	65.3	144.0	244.6	384.3	571.5	786.5	1024.8	1279.3	1551.8
22.5°	0.0	16.2	66.9	147.9	251.1	391.4	582.6	808.3	1058.3	1324.1	1611.7
20°	0.0	16.4	68.3	151.3	256.7	401.1	591.7	828.0	1088.8	1364.2	1665.4
17.5°	0.0	16.5	69.5	154.2	261.4	409.1	603.1	845.3	1115.9	1399.4	1712.7
15°	0.0	16.6	70.4	156.5	265.2	415.3	615.0	861.8	1139.5	1429.5	1753.5
12.5°	0.0	16.7	71.1	158.3	268.1	419.8	624.7	877.4	1160.8	1454.6	1787.7
10°	0.0	16.7	71.6	159.5	270.1	422.5	632.0	889.3	1179.2	1478.1	1816.5
7.5°	0.0	16.7	71.9	160.3	271.2	423.6	637.0	897.7	1193.4	1497.0	1841.4
5°	0.0	16.7	71.9	160.5	271.4	423.2	639.6	902.5	1203.1	1510.8	1859.2
2.5°	0.0	16.6	71.8	160.1	270.7	421.1	639.7	903.6	1208.3	1519.1	1869.9
0°	0.0	16.5	71.4	159.3	269.2	417.6	637.3	901.1	1208.7	1521.9	1873.5
-2.5°	0.0	16.6	71.8	160.1	270.7	421.1	639.7	903.6	1208.3	1519.1	1869.9
-5°	0.0	16.7	71.9	160.5	271.4	423.2	639.6	902.5	1203.1	1510.8	1859.2
-7.5°	0.0	16.7	71.9	160.3	271.2	423.6	637.0	897.7	1193.4	1497.0	1841.4
-10°	0.0	16.7	71.6	159.5	270.1	422.5	632.0	889.3	1179.2	1478.1	1816.5
-12.5°	0.0	16.7	71.1	158.3	268.1	419.8	624.7	877.4	1160.8	1454.6	1787.7
-15°	0.0	16.6	70.4	156.5	265.2	415.3	615.0	861.8	1139.5	1429.5	1753.5
-17.5°	0.0	16.5	69.5	154.2	261.4	409.1	603.1	845.3	1115.9	1399.4	1712.7
-20°	0.0	16.4	68.3	151.3	256.7	401.1	591.7	828.0	1088.8	1364.2	1665.4

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Scaled Data Report



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CATALOG NUMBER: GFLD-SA4D-727-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	16.2	66.9	147.9	251.1	391.4	582.6	808.3	1058.3	1324.1	1611.7
-25°	0.0	16.0	65.3	144.0	244.6	384.3	571.5	786.5	1024.8	1279.3	1551.8
-27.5°	0.0	15.8	63.5	139.5	237.3	377.3	558.7	762.6	988.3	1231.9	1495.6
-30°	0.0	15.5	61.4	134.6	229.4	368.4	544.0	736.9	953.4	1185.3	1434.8
-32.5°	0.0	15.2	59.2	129.1	224.1	357.7	527.7	714.7	919.4	1136.2	1369.3
-35°	0.0	14.8	56.7	123.1	217.6	345.1	512.0	692.6	884.2	1084.9	1299.3
-37.5°	0.0	14.4	54.0	116.6	209.8	332.6	495.0	669.0	848.0	1031.5	1233.1
-40°	0.0	14.0	51.1	109.6	200.7	321.7	475.8	643.9	810.8	985.1	1167.4
-42.5°	0.0	13.5	48.0	102.5	191.5	309.0	454.3	617.4	777.6	936.2	1097.3
-45°	0.0	13.0	44.7	95.6	182.3	294.4	430.6	589.5	745.8	884.0	1025.4
-47.5°	0.0	12.5	41.2	88.0	172.0	278.0	404.8	559.1	712.4	829.5	964.4
-50°	0.0	12.0	37.5	82.1	160.5	259.9	381.5	526.1	669.6	781.4	900.6
-52.5°	0.0	11.4	33.7	76.5	147.9	240.0	356.8	490.7	622.3	731.6	835.5
-55°	0.0	10.8	29.7	70.3	134.2	221.3	329.7	453.3	572.5	680.3	778.7
-57.5°	0.0	10.1	25.5	63.7	119.5	201.6	300.5	417.4	521.6	624.6	720.4
-60°	0.0	9.4	21.2	56.5	104.0	180.4	269.6	375.9	469.7	566.8	659.6
-62.5°	0.0	8.7	19.7	48.9	92.4	157.8	240.3	331.3	417.2	508.1	595.5
-65°	0.0	8.0	18.1	40.9	80.1	133.9	209.2	286.3	362.6	445.3	530.5
-67.5°	0.0	7.3	16.5	32.5	67.1	112.1	176.5	243.3	306.1	379.7	457.8
-70°	0.0	6.5	14.8	23.7	53.5	92.7	142.2	199.1	253.8	312.1	380.2
-72.5°	0.0	5.7	13.1	19.8	39.3	72.4	113.7	153.8	200.3	249.8	302.2
-75°	0.0	5.0	11.3	17.0	24.7	51.4	85.2	116.1	145.7	186.3	229.6
-77.5°	0.0	4.2	9.5	14.2	19.0	29.7	55.8	81.0	104.6	127.4	155.5
-80°	0.0	3.3	7.6	11.4	15.2	19.0	25.6	45.6	64.8	83.3	101.0
-82.5°	0.0	2.5	5.7	8.6	11.4	14.2	17.0	19.8	24.8	39.0	52.6
-85°	0.0	1.7	3.8	5.7	7.6	9.5	11.4	13.2	15.0	16.8	18.6
-87.5°	0.0	0.8	1.9	2.9	3.8	4.8	5.7	6.6	7.5	8.4	9.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	10.8	12.4	14.0	15.8	15.9	15.9	15.8	15.6	16.2	16.9	17.5
85°	21.5	24.7	34.3	43.5	48.0	50.7	52.0	51.7	60.2	69.9	80.5
82.5°	66.9	80.7	93.8	106.3	109.5	109.6	108.5	108.9	128.6	151.3	174.5
80°	119.1	136.5	159.7	180.3	189.2	193.8	195.9	195.6	220.6	253.9	288.9
77.5°	188.9	218.3	243.9	265.6	277.4	287.7	296.2	302.7	334.8	376.9	418.6
75°	268.4	300.7	332.7	360.7	380.2	394.7	408.2	430.0	472.1	521.2	563.9
72.5°	352.3	393.5	429.2	459.6	487.0	516.2	548.8	584.5	628.9	678.0	722.7
70°	441.9	487.2	524.7	561.2	598.6	642.2	691.1	739.3	788.8	843.0	895.1
67.5°	529.6	573.3	617.4	663.5	719.4	777.9	835.7	902.1	970.0	1030.2	1083.9
65°	605.8	657.0	712.2	774.8	843.9	918.1	995.3	1074.9	1161.1	1233.3	1299.1
62.5°	678.5	740.1	807.2	885.1	973.3	1061.2	1159.7	1259.3	1356.3	1441.4	1520.0
60°	745.6	820.2	904.9	1000.6	1103.5	1220.3	1332.4	1445.8	1552.1	1648.4	1747.8
57.5°	810.8	904.7	1006.4	1121.2	1251.3	1382.5	1514.3	1636.2	1756.6	1874.0	1986.4
55°	879.8	993.0	1114.0	1254.8	1401.4	1556.6	1698.5	1834.6	1967.3	2109.7	2245.2
52.5°	955.7	1082.1	1233.6	1391.2	1560.6	1727.1	1883.1	2038.1	2198.4	2359.7	2536.0
50°	1029.0	1186.6	1352.6	1535.9	1718.9	1897.3	2076.1	2254.7	2446.8	2644.5	2844.3
47.5°	1114.6	1286.6	1482.7	1679.2	1879.2	2077.8	2277.0	2492.8	2711.1	2940.4	3161.4
45°	1201.3	1394.6	1605.9	1828.2	2044.4	2264.3	2497.3	2735.8	2991.7	3243.9	3509.8
42.5°	1283.4	1502.0	1734.9	1974.9	2215.4	2461.1	2717.3	2996.0	3275.6	3566.5	3858.6
40°	1374.4	1604.1	1860.8	2125.2	2386.2	2658.6	2951.4	3253.2	3569.6	3889.4	4206.7
37.5°	1461.8	1714.3	1984.2	2268.8	2561.7	2861.0	3179.0	3521.5	3864.6	4208.8	4558.7
35°	1543.7	1818.9	2111.2	2413.4	2724.0	3064.4	3419.9	3785.5	4157.3	4529.6	4905.9
32.5°	1627.9	1917.5	2232.5	2555.9	2898.2	3263.3	3652.7	4048.9	4444.8	4842.3	5254.2
30°	1712.4	2020.8	2350.1	2690.7	3065.1	3462.9	3881.4	4301.1	4719.9	5157.3	5596.3
27.5°	1792.2	2118.9	2465.6	2830.1	3225.1	3647.8	4092.2	4541.7	4993.3	5458.4	5926.7
25°	1865.7	2211.8	2572.7	2964.1	3382.8	3825.7	4288.6	4757.7	5253.0	5750.7	6239.6
22.5°	1937.4	2297.2	2672.0	3087.7	3525.8	3990.9	4472.9	4968.3	5485.8	6020.3	6526.3
20°	2006.3	2378.4	2768.6	3199.6	3653.8	4139.6	4640.5	5159.2	5702.1	6250.9	6795.1
17.5°	2067.5	2450.6	2858.5	3304.3	3776.0	4275.6	4791.4	5327.2	5894.3	6463.1	7039.8
15°	2120.8	2513.5	2936.4	3395.6	3884.0	4399.1	4931.4	5482.5	6064.2	6656.5	7256.0
12.5°	2165.9	2566.8	3002.0	3473.2	3975.7	4505.1	5051.8	5622.2	6219.6	6828.5	7445.4
10°	2202.5	2610.1	3055.1	3536.7	4050.5	4592.7	5150.9	5737.4	6352.7	6974.9	7604.7
7.5°	2233.7	2646.3	3097.2	3585.6	4108.2	4661.3	5228.1	5827.2	6458.7	7089.0	7732.7
5°	2256.4	2675.6	3135.9	3626.6	4158.4	4714.9	5286.6	5891.3	6536.2	7170.2	7825.5
2.5°	2270.0	2694.7	3162.2	3653.2	4197.8	4755.0	5338.5	5947.9	6593.1	7234.7	7895.2
0°	2274.6	2703.2	3175.7	3664.6	4219.6	4774.5	5367.8	5977.7	6620.5	7274.3	7939.1
-2.5°	2270.0	2694.7	3162.2	3653.2	4197.8	4755.0	5338.5	5947.9	6593.1	7234.7	7895.2
-5°	2256.4	2675.6	3135.9	3626.6	4158.4	4714.9	5286.6	5891.3	6536.2	7170.2	7825.5
-7.5°	2233.7	2646.3	3097.2	3585.6	4108.2	4661.3	5228.1	5827.2	6458.7	7089.0	7732.7
-10°	2202.5	2610.1	3055.1	3536.7	4050.5	4592.7	5150.9	5737.4	6352.7	6974.9	7604.7
-12.5°	2165.9	2566.8	3002.0	3473.2	3975.7	4505.1	5051.8	5622.2	6219.6	6828.5	7445.4
-15°	2120.8	2513.5	2936.4	3395.6	3884.0	4399.1	4931.4	5482.5	6064.2	6656.5	7256.0
-17.5°	2067.5	2450.6	2858.5	3304.3	3776.0	4275.6	4791.4	5327.2	5894.3	6463.1	7039.8
-20°	2006.3	2378.4	2768.6	3199.6	3653.8	4139.6	4640.5	5159.2	5702.1	6250.9	6795.1

Classified

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

Scaled Data Report



REPORT NUMBER: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4D-727-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1937.4	2297.2	2672.0	3087.7	3525.8	3990.9	4472.9	4968.3	5485.8	6020.3	6526.3
-25°	1865.7	2211.8	2572.7	2964.1	3382.8	3825.7	4288.6	4757.7	5253.0	5750.7	6239.6
-27.5°	1792.2	2118.9	2465.6	2830.1	3225.1	3647.8	4092.2	4541.7	4993.3	5458.4	5926.7
-30°	1712.4	2020.8	2350.1	2690.7	3065.1	3462.9	3881.4	4301.1	4719.9	5157.3	5596.3
-32.5°	1627.9	1917.5	2232.5	2555.9	2898.2	3263.3	3652.7	4048.9	4444.8	4842.3	5254.2
-35°	1543.7	1818.9	2111.2	2413.4	2724.0	3064.4	3419.9	3785.5	4157.3	4529.6	4905.9
-37.5°	1461.8	1714.3	1984.2	2268.8	2561.7	2861.0	3179.0	3521.5	3864.6	4208.8	4558.7
-40°	1374.4	1604.1	1860.8	2125.2	2386.2	2658.6	2951.4	3253.2	3569.6	3889.4	4206.7
-42.5°	1283.4	1502.0	1734.9	1974.9	2215.4	2461.1	2717.3	2996.0	3275.6	3566.5	3858.6
-45°	1201.3	1394.6	1605.9	1828.2	2044.4	2264.3	2497.3	2735.8	2991.7	3243.9	3509.8
-47.5°	1114.6	1286.6	1482.7	1679.2	1879.2	2077.8	2277.0	2492.8	2711.1	2940.4	3161.4
-50°	1029.0	1186.6	1352.6	1535.9	1718.9	1897.3	2076.1	2254.7	2446.8	2644.5	2844.3
-52.5°	955.7	1082.1	1233.6	1391.2	1560.6	1727.1	1883.1	2038.1	2198.4	2359.7	2536.0
-55°	879.8	993.0	1114.0	1254.8	1401.4	1556.6	1698.5	1834.6	1967.3	2109.7	2245.2
-57.5°	810.8	904.7	1006.4	1121.2	1251.3	1382.5	1514.3	1636.2	1756.6	1874.0	1986.4
-60°	745.6	820.2	904.9	1000.6	1103.5	1220.3	1332.4	1445.8	1552.1	1648.4	1747.8
-62.5°	678.5	740.1	807.2	885.1	973.3	1061.2	1159.7	1259.3	1356.3	1441.4	1520.0
-65°	605.8	657.0	712.2	774.8	843.9	918.1	995.3	1074.9	1161.1	1233.3	1299.1
-67.5°	529.6	573.3	617.4	663.5	719.4	777.9	835.7	902.1	970.0	1030.2	1083.9
-70°	441.9	487.2	524.7	561.2	598.6	642.2	691.1	739.3	788.8	843.0	895.1
-72.5°	352.3	393.5	429.2	459.6	487.0	516.2	548.8	584.5	628.9	678.0	722.7
-75°	268.4	300.7	332.7	360.7	380.2	394.7	408.2	430.0	472.1	521.2	563.9
-77.5°	188.9	218.3	243.9	265.6	277.4	287.7	296.2	302.7	334.8	376.9	418.6
-80°	119.1	136.5	159.7	180.3	189.2	193.8	195.9	195.6	220.6	253.9	288.9
-82.5°	66.9	80.7	93.8	106.3	109.5	109.6	108.5	108.9	128.6	151.3	174.5
-85°	21.5	24.7	34.3	43.5	48.0	50.7	52.0	51.7	60.2	69.9	80.5
-87.5°	10.8	12.4	14.0	15.8	15.9	15.9	15.8	15.6	16.2	16.9	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



REPORT NUMBER: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4D-727-U-VWR-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°	18.0	18.6	19.1	19.5	19.9	20.3	20.7	21.0	21.2	20.1	19.0
85°	91.8	98.3	104.4	110.2	115.7	120.9	125.8	130.3	134.5	122.9	110.0
82.5°	198.2	214.1	229.2	244.3	259.2	263.0	264.1	263.6	261.5	241.0	218.3
80°	323.5	350.5	375.9	401.1	425.9	428.7	425.8	420.7	413.4	386.6	356.1
77.5°	460.3	494.2	523.9	551.1	575.8	580.5	579.9	578.6	576.6	549.2	516.0
75°	600.5	633.7	665.7	692.9	715.6	726.0	731.1	734.7	736.8	717.1	691.2
72.5°	763.1	797.6	825.8	852.2	874.6	890.8	902.4	911.2	917.2	911.2	900.7
70°	939.6	976.6	1007.7	1037.5	1067.8	1092.2	1110.5	1123.8	1132.2	1137.8	1141.7
67.5°	1138.2	1187.9	1231.3	1268.3	1305.0	1339.3	1367.5	1390.6	1408.4	1423.5	1435.2
65°	1362.1	1425.6	1481.9	1533.6	1580.9	1630.8	1671.7	1706.0	1733.6	1756.5	1774.8
62.5°	1597.4	1675.2	1747.5	1817.7	1886.4	1954.1	2006.1	2053.3	2095.4	2131.6	2160.4
60°	1841.9	1930.4	2027.4	2120.0	2205.2	2283.1	2360.4	2427.4	2484.7	2532.2	2570.6
57.5°	2104.8	2219.3	2332.7	2447.7	2556.4	2658.1	2753.3	2837.3	2908.3	2966.5	3015.4
55°	2388.7	2532.0	2663.5	2808.6	2948.8	3076.5	3188.8	3287.5	3373.0	3444.5	3505.2
52.5°	2700.8	2874.9	3045.8	3210.9	3370.1	3518.1	3652.6	3767.7	3870.0	3957.7	4027.6
50°	3042.4	3241.6	3439.7	3623.3	3806.1	3976.8	4131.0	4264.5	4383.5	4486.6	4567.7
47.5°	3399.7	3626.4	3847.5	4057.8	4260.2	4449.8	4616.8	4768.9	4917.3	5038.4	5134.1
45°	3770.6	4025.0	4269.0	4509.3	4732.2	4944.7	5150.7	5340.1	5492.5	5625.9	5737.9
42.5°	4146.1	4429.8	4703.1	4965.2	5210.3	5456.1	5687.8	5894.9	6068.7	6220.3	6347.6
40°	4526.5	4837.1	5138.1	5423.9	5704.1	5972.1	6222.8	6441.2	6637.1	6817.2	6967.3
37.5°	4904.9	5246.6	5580.1	5900.4	6208.8	6499.2	6770.0	7016.8	7237.9	7443.0	7609.6
35°	5285.0	5659.9	6025.0	6377.4	6714.4	7034.8	7331.4	7612.2	7872.6	8080.5	8250.9
32.5°	5663.6	6066.7	6464.0	6852.0	7220.8	7566.3	7887.6	8197.9	8465.9	8694.2	8890.2
30°	6030.1	6466.7	6899.3	7320.0	7718.4	8092.7	8448.5	8776.6	9064.8	9314.6	9534.4
27.5°	6389.6	6858.6	7322.9	7772.3	8203.1	8609.8	8998.1	9353.9	9668.4	9939.9	10171.6
25°	6729.4	7233.6	7728.4	8204.9	8665.0	9113.7	9532.9	9921.2	10257.2	10555.2	10793.3
22.5°	7054.1	7591.7	8111.7	8613.0	9105.2	9588.8	10047.7	10453.2	10809.2	11120.7	11384.3
20°	7356.5	7932.7	8464.6	8994.8	9513.2	10029.6	10522.4	10950.2	11326.9	11658.6	11949.1
17.5°	7639.3	8230.3	8790.4	9354.8	9901.2	10442.9	10943.5	11402.1	11808.5	12160.7	12464.9
15°	7878.7	8475.5	9087.2	9689.8	10266.0	10814.6	11314.7	11793.6	12244.9	12625.8	12934.4
12.5°	8072.5	8693.1	9331.3	9971.1	10580.4	11128.2	11651.9	12137.7	12611.7	13039.5	13323.2
10°	8237.7	8876.8	9535.6	10188.0	10805.5	11385.2	11954.5	12468.1	12933.9	13317.1	13633.8
7.5°	8380.5	9038.8	9707.9	10361.4	10976.9	11575.8	12161.8	12707.3	13177.6	13538.5	13821.0
5°	8485.8	9159.8	9841.8	10501.3	11125.4	11726.2	12314.9	12853.6	13312.6	13679.9	13988.0
2.5°	8561.2	9241.4	9928.4	10588.8	11226.7	11829.1	12432.5	12977.3	13421.7	13758.2	14053.2
0°	8609.4	9290.7	9983.0	10658.8	11285.1	11867.5	12515.8	13026.8	13488.3	13823.4	14131.1
-2.5°	8561.2	9241.4	9928.4	10588.8	11226.7	11829.1	12432.5	12977.3	13421.7	13758.2	14053.2
-5°	8485.8	9159.8	9841.8	10501.3	11125.4	11726.2	12314.9	12853.6	13312.6	13679.9	13988.0
-7.5°	8380.5	9038.8	9707.9	10361.4	10976.9	11575.8	12161.8	12707.3	13177.6	13538.5	13821.0
-10°	8237.7	8876.8	9535.6	10188.0	10805.5	11385.2	11954.5	12468.1	12933.9	13317.1	13633.8
-12.5°	8072.5	8693.1	9331.3	9971.1	10580.4	11128.2	11651.9	12137.7	12611.7	13039.5	13323.2
-15°	7878.7	8475.5	9087.2	9689.8	10266.0	10814.6	11314.7	11793.6	12244.9	12625.8	12934.4
-17.5°	7639.3	8230.3	8790.4	9354.8	9901.2	10442.9	10943.5	11402.1	11808.5	12160.7	12464.9
-20°	7356.5	7932.7	8464.6	8994.8	9513.2	10029.6	10522.4	10950.2	11326.9	11658.6	11949.1



REPORT NUMBER: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7054.1	7591.7	8111.7	8613.0	9105.2	9588.8	10047.7	10453.2	10809.2	11120.7	11384.3
-25°	6729.4	7233.6	7728.4	8204.9	8665.0	9113.7	9532.9	9921.2	10257.2	10555.2	10793.3
-27.5°	6389.6	6858.6	7322.9	7772.3	8203.1	8609.8	8998.1	9353.9	9668.4	9939.9	10171.6
-30°	6030.1	6466.7	6899.3	7320.0	7718.4	8092.7	8448.5	8776.6	9064.8	9314.6	9534.4
-32.5°	5663.6	6066.7	6464.0	6852.0	7220.8	7566.3	7887.6	8197.9	8465.9	8694.2	8890.2
-35°	5285.0	5659.9	6025.0	6377.4	6714.4	7034.8	7331.4	7612.2	7872.6	8080.5	8250.9
-37.5°	4904.9	5246.6	5580.1	5900.4	6208.8	6499.2	6770.0	7016.8	7237.9	7443.0	7609.6
-40°	4526.5	4837.1	5138.1	5423.9	5704.1	5972.1	6222.8	6441.2	6637.1	6817.2	6967.3
-42.5°	4146.1	4429.8	4703.1	4965.2	5210.3	5456.1	5687.8	5894.9	6068.7	6220.3	6347.6
-45°	3770.6	4025.0	4269.0	4509.3	4732.2	4944.7	5150.7	5340.1	5492.5	5625.9	5737.9
-47.5°	3399.7	3626.4	3847.5	4057.8	4260.2	4449.8	4616.8	4768.9	4917.3	5038.4	5134.1
-50°	3042.4	3241.6	3439.7	3623.3	3806.1	3976.8	4131.0	4264.5	4383.5	4486.6	4567.7
-52.5°	2700.8	2874.9	3045.8	3210.9	3370.1	3518.1	3652.6	3767.7	3870.0	3957.7	4027.6
-55°	2388.7	2532.0	2663.5	2808.6	2948.8	3076.5	3188.8	3287.5	3373.0	3444.5	3505.2
-57.5°	2104.8	2219.3	2332.7	2447.7	2556.4	2658.1	2753.3	2837.3	2908.3	2966.5	3015.4
-60°	1841.9	1930.4	2027.4	2120.0	2205.2	2283.1	2360.4	2427.4	2484.7	2532.2	2570.6
-62.5°	1597.4	1675.2	1747.5	1817.7	1886.4	1954.1	2006.1	2053.3	2095.4	2131.6	2160.4
-65°	1362.1	1425.6	1481.9	1533.6	1580.9	1630.8	1671.7	1706.0	1733.6	1756.5	1774.8
-67.5°	1138.2	1187.9	1231.3	1268.3	1305.0	1339.3	1367.5	1390.6	1408.4	1423.5	1435.2
-70°	939.6	976.6	1007.7	1037.5	1067.8	1092.2	1110.5	1123.8	1132.2	1137.8	1141.7
-72.5°	763.1	797.6	825.8	852.2	874.6	890.8	902.4	911.2	917.2	911.2	900.7
-75°	600.5	633.7	665.7	692.9	715.6	726.0	731.1	734.7	736.8	717.1	691.2
-77.5°	460.3	494.2	523.9	551.1	575.8	580.5	579.9	578.6	576.6	549.2	516.0
-80°	323.5	350.5	375.9	401.1	425.9	428.7	425.8	420.7	413.4	386.6	356.1
-82.5°	198.2	214.1	229.2	244.3	259.2	263.0	264.1	263.6	261.5	241.0	218.3
-85°	91.8	98.3	104.4	110.2	115.7	120.9	125.8	130.3	134.5	122.9	110.0
-87.5°	18.0	18.6	19.1	19.5	19.9	20.3	20.7	21.0	21.2	20.1	19.0
-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: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-VWR-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°	17.7	16.4	16.5	16.5	16.5	16.4	17.7	19.0	20.1	21.2	21.0
85°	96.3	82.0	76.8	71.4	76.8	82.0	96.3	110.0	122.9	134.5	130.3
82.5°	194.5	169.7	161.9	153.8	161.9	169.7	194.5	218.3	241.0	261.5	263.6
80°	324.0	290.4	277.2	263.7	277.2	290.4	324.0	356.1	386.6	413.4	420.7
77.5°	480.8	443.9	428.2	412.1	428.2	443.9	480.8	516.0	549.2	576.6	578.6
75°	664.0	635.1	617.7	598.9	617.7	635.1	664.0	691.2	717.1	736.8	734.7
72.5°	888.6	874.5	861.7	846.1	861.7	874.5	888.6	900.7	911.2	917.2	911.2
70°	1143.0	1141.2	1143.5	1142.8	1143.5	1141.2	1143.0	1141.7	1137.8	1132.2	1123.8
67.5°	1441.2	1441.6	1447.7	1450.5	1447.7	1441.6	1441.2	1435.2	1423.5	1408.4	1390.6
65°	1786.1	1790.3	1788.8	1780.1	1788.8	1790.3	1786.1	1774.8	1756.5	1733.6	1706.0
62.5°	2180.9	2192.7	2199.2	2197.7	2199.2	2192.7	2180.9	2160.4	2131.6	2095.4	2053.3
60°	2599.2	2617.8	2627.2	2626.2	2627.2	2617.8	2599.2	2570.6	2532.2	2484.7	2427.4
57.5°	3051.8	3075.6	3081.2	3071.3	3081.2	3075.6	3051.8	3015.4	2966.5	2908.3	2837.3
55°	3551.0	3581.5	3593.3	3587.7	3593.3	3581.5	3551.0	3505.2	3444.5	3373.0	3287.5
52.5°	4078.9	4111.9	4123.6	4115.2	4123.6	4111.9	4078.9	4027.6	3957.7	3870.0	3767.7
50°	4627.2	4667.1	4683.2	4675.6	4683.2	4667.1	4627.2	4567.7	4486.6	4383.5	4264.5
47.5°	5209.2	5262.3	5283.0	5268.9	5283.0	5262.3	5209.2	5134.1	5038.4	4917.3	4768.9
45°	5821.6	5876.7	5898.1	5884.3	5898.1	5876.7	5821.6	5737.9	5625.9	5492.5	5340.1
42.5°	6444.9	6516.6	6546.8	6521.6	6546.8	6516.6	6444.9	6347.6	6220.3	6068.7	5894.9
40°	7079.3	7157.0	7192.8	7175.4	7192.8	7157.0	7079.3	6967.3	6817.2	6637.1	6441.2
37.5°	7729.9	7807.2	7845.2	7845.7	7845.2	7807.2	7729.9	7609.6	7443.0	7237.9	7016.8
35°	8383.0	8476.6	8529.6	8527.0	8529.6	8476.6	8383.0	8250.9	8080.5	7872.6	7612.2
32.5°	9045.1	9146.5	9200.7	9208.3	9200.7	9146.5	9045.1	8890.2	8694.2	8465.9	8197.9
30°	9706.1	9817.7	9880.4	9906.1	9880.4	9817.7	9706.1	9534.4	9314.6	9064.8	8776.6
27.5°	10347.2	10484.4	10579.1	10587.3	10579.1	10484.4	10347.2	10171.6	9939.9	9668.4	9353.9
25°	10968.1	11107.8	11205.0	11224.7	11205.0	11107.8	10968.1	10793.3	10555.2	10257.2	9921.2
22.5°	11580.1	11726.1	11815.7	11851.0	11815.7	11726.1	11580.1	11384.3	11120.7	10809.2	10453.2
20°	12164.3	12322.5	12417.6	12455.4	12417.6	12322.5	12164.3	11949.1	11658.6	11326.9	10950.2
17.5°	12692.7	12860.0	12977.3	13010.3	12977.3	12860.0	12692.7	12464.9	12160.7	11808.5	11402.1
15°	13157.9	13316.4	13427.8	13471.8	13427.8	13316.4	13157.9	12934.4	12625.8	12244.9	11793.6
12.5°	13536.4	13678.2	13765.5	13806.9	13765.5	13678.2	13536.4	13323.2	13039.5	12611.7	12137.7
10°	13832.1	13974.4	14057.7	14114.6	14057.7	13974.4	13832.1	13633.8	13317.1	12933.9	12468.1
7.5°	14088.9	14234.6	14336.6	14416.8	14336.6	14234.6	14088.9	13821.0	13538.5	13177.6	12707.3
5°	14230.5	14474.0	14510.6	14565.1	14510.6	14474.0	14230.5	13988.0	13679.9	13312.6	12853.6
2.5°	14338.6	14511.3	14615.1	14603.6	14615.1	14511.3	14338.6	14053.2	13758.2	13421.7	12977.3
0°	14416.8	14570.6	14609.1	14658.5	14609.1	14570.6	14416.8	14131.1	13823.4	13488.3	13026.8
-2.5°	14338.6	14511.3	14615.1	14603.6	14615.1	14511.3	14338.6	14053.2	13758.2	13421.7	12977.3
-5°	14230.5	14474.0	14510.6	14565.1	14510.6	14474.0	14230.5	13988.0	13679.9	13312.6	12853.6
-7.5°	14088.9	14234.6	14336.6	14416.8	14336.6	14234.6	14088.9	13821.0	13538.5	13177.6	12707.3
-10°	13832.1	13974.4	14057.7	14114.6	14057.7	13974.4	13832.1	13633.8	13317.1	12933.9	12468.1
-12.5°	13536.4	13678.2	13765.5	13806.9	13765.5	13678.2	13536.4	13323.2	13039.5	12611.7	12137.7
-15°	13157.9	13316.4	13427.8	13471.8	13427.8	13316.4	13157.9	12934.4	12625.8	12244.9	11793.6
-17.5°	12692.7	12860.0	12977.3	13010.3	12977.3	12860.0	12692.7	12464.9	12160.7	11808.5	11402.1
-20°	12164.3	12322.5	12417.6	12455.4	12417.6	12322.5	12164.3	11949.1	11658.6	11326.9	10950.2



REPORT NUMBER: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	11580.1	11726.1	11815.7	11851.0	11815.7	11726.1	11580.1	11384.3	11120.7	10809.2	10453.2
-25°	10968.1	11107.8	11205.0	11224.7	11205.0	11107.8	10968.1	10793.3	10555.2	10257.2	9921.2
-27.5°	10347.2	10484.4	10579.1	10587.3	10579.1	10484.4	10347.2	10171.6	9939.9	9668.4	9353.9
-30°	9706.1	9817.7	9880.4	9906.1	9880.4	9817.7	9706.1	9534.4	9314.6	9064.8	8776.6
-32.5°	9045.1	9146.5	9200.7	9208.3	9200.7	9146.5	9045.1	8890.2	8694.2	8465.9	8197.9
-35°	8383.0	8476.6	8529.6	8527.0	8529.6	8476.6	8383.0	8250.9	8080.5	7872.6	7612.2
-37.5°	7729.9	7807.2	7845.2	7845.7	7845.2	7807.2	7729.9	7609.6	7443.0	7237.9	7016.8
-40°	7079.3	7157.0	7192.8	7175.4	7192.8	7157.0	7079.3	6967.3	6817.2	6637.1	6441.2
-42.5°	6444.9	6516.6	6546.8	6521.6	6546.8	6516.6	6444.9	6347.6	6220.3	6068.7	5894.9
-45°	5821.6	5876.7	5898.1	5884.3	5898.1	5876.7	5821.6	5737.9	5625.9	5492.5	5340.1
-47.5°	5209.2	5262.3	5283.0	5268.9	5283.0	5262.3	5209.2	5134.1	5038.4	4917.3	4768.9
-50°	4627.2	4667.1	4683.2	4675.6	4683.2	4667.1	4627.2	4567.7	4486.6	4383.5	4264.5
-52.5°	4078.9	4111.9	4123.6	4115.2	4123.6	4111.9	4078.9	4027.6	3957.7	3870.0	3767.7
-55°	3551.0	3581.5	3593.3	3587.7	3593.3	3581.5	3551.0	3505.2	3444.5	3373.0	3287.5
-57.5°	3051.8	3075.6	3081.2	3071.3	3081.2	3075.6	3051.8	3015.4	2966.5	2908.3	2837.3
-60°	2599.2	2617.8	2627.2	2626.2	2627.2	2617.8	2599.2	2570.6	2532.2	2484.7	2427.4
-62.5°	2180.9	2192.7	2199.2	2197.7	2199.2	2192.7	2180.9	2160.4	2131.6	2095.4	2053.3
-65°	1786.1	1790.3	1788.8	1780.1	1788.8	1790.3	1786.1	1774.8	1756.5	1733.6	1706.0
-67.5°	1441.2	1441.6	1447.7	1450.5	1447.7	1441.6	1441.2	1435.2	1423.5	1408.4	1390.6
-70°	1143.0	1141.2	1143.5	1142.8	1143.5	1141.2	1143.0	1141.7	1137.8	1132.2	1123.8
-72.5°	888.6	874.5	861.7	846.1	861.7	874.5	888.6	900.7	911.2	917.2	911.2
-75°	664.0	635.1	617.7	598.9	617.7	635.1	664.0	691.2	717.1	736.8	734.7
-77.5°	480.8	443.9	428.2	412.1	428.2	443.9	480.8	516.0	549.2	576.6	578.6
-80°	324.0	290.4	277.2	263.7	277.2	290.4	324.0	356.1	386.6	413.4	420.7
-82.5°	194.5	169.7	161.9	153.8	161.9	169.7	194.5	218.3	241.0	261.5	263.6
-85°	96.3	82.0	76.8	71.4	76.8	82.0	96.3	110.0	122.9	134.5	130.3
-87.5°	17.7	16.4	16.5	16.5	16.5	16.4	17.7	19.0	20.1	21.2	21.0
-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: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-VWR-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°	20.7	20.3	19.9	19.5	19.1	18.6	18.0	17.5	16.9	16.2	15.6
85°	125.8	120.9	115.7	110.2	104.4	98.3	91.8	80.5	69.9	60.2	51.7
82.5°	264.1	263.0	259.2	244.3	229.2	214.1	198.2	174.5	151.3	128.6	108.9
80°	425.8	428.7	425.9	401.1	375.9	350.5	323.5	288.9	253.9	220.6	195.6
77.5°	579.9	580.5	575.8	551.1	523.9	494.2	460.3	418.6	376.9	334.8	302.7
75°	731.1	726.0	715.6	692.9	665.7	633.7	600.5	563.9	521.2	472.1	430.0
72.5°	902.4	890.8	874.6	852.2	825.8	797.6	763.1	722.7	678.0	628.9	584.5
70°	1110.5	1092.2	1067.8	1037.5	1007.7	976.6	939.6	895.1	843.0	788.8	739.3
67.5°	1367.5	1339.3	1305.0	1268.3	1231.3	1187.9	1138.2	1083.9	1030.2	970.0	902.1
65°	1671.7	1630.8	1580.9	1533.6	1481.9	1425.6	1362.1	1299.1	1233.3	1161.1	1074.9
62.5°	2006.1	1954.1	1886.4	1817.7	1747.5	1675.2	1597.4	1520.0	1441.4	1356.3	1259.3
60°	2360.4	2283.1	2205.2	2120.0	2027.4	1930.4	1841.9	1747.8	1648.4	1552.1	1445.8
57.5°	2753.3	2658.1	2556.4	2447.7	2332.7	2219.3	2104.8	1986.4	1874.0	1756.6	1636.2
55°	3188.8	3076.5	2948.8	2808.6	2663.5	2532.0	2388.7	2245.2	2109.7	1967.3	1834.6
52.5°	3652.6	3518.1	3370.1	3210.9	3045.8	2874.9	2700.8	2536.0	2359.7	2198.4	2038.1
50°	4131.0	3976.8	3806.1	3623.3	3439.7	3241.6	3042.4	2844.3	2644.5	2446.8	2254.7
47.5°	4616.8	4449.8	4260.2	4057.8	3847.5	3626.4	3399.7	3161.4	2940.4	2711.1	2492.8
45°	5150.7	4944.7	4732.2	4509.3	4269.0	4025.0	3770.6	3509.8	3243.9	2991.7	2735.8
42.5°	5687.8	5456.1	5210.3	4965.2	4703.1	4429.8	4146.1	3858.6	3566.5	3275.6	2996.0
40°	6222.8	5972.1	5704.1	5423.9	5138.1	4837.1	4526.5	4206.7	3889.4	3569.6	3253.2
37.5°	6770.0	6499.2	6208.8	5900.4	5580.1	5246.6	4904.9	4558.7	4208.8	3864.6	3521.5
35°	7331.4	7034.8	6714.4	6377.4	6025.0	5659.9	5285.0	4905.9	4529.6	4157.3	3785.5
32.5°	7887.6	7566.3	7220.8	6852.0	6464.0	6066.7	5663.6	5254.2	4842.3	4444.8	4048.9
30°	8448.5	8092.7	7718.4	7320.0	6899.3	6466.7	6030.1	5596.3	5157.3	4719.9	4301.1
27.5°	8998.1	8609.8	8203.1	7772.3	7322.9	6858.6	6389.6	5926.7	5458.4	4993.3	4541.7
25°	9532.9	9113.7	8665.0	8204.9	7728.4	7233.6	6729.4	6239.6	5750.7	5253.0	4757.7
22.5°	10047.7	9588.8	9105.2	8613.0	8111.7	7591.7	7054.1	6526.3	6020.3	5485.8	4968.3
20°	10522.4	10029.6	9513.2	8994.8	8464.6	7932.7	7356.5	6795.1	6250.9	5702.1	5159.2
17.5°	10943.5	10442.9	9901.2	9354.8	8790.4	8230.3	7639.3	7039.8	6463.1	5894.3	5327.2
15°	11314.7	10814.6	10266.0	9689.8	9087.2	8475.5	7878.7	7256.0	6656.5	6064.2	5482.5
12.5°	11651.9	11128.2	10580.4	9971.1	9331.3	8693.1	8072.5	7445.4	6828.5	6219.6	5622.2
10°	11954.5	11385.2	10805.5	10188.0	9535.6	8876.8	8237.7	7604.7	6974.9	6352.7	5737.4
7.5°	12161.8	11575.8	10976.9	10361.4	9707.9	9038.8	8380.5	7732.7	7089.0	6458.7	5827.2
5°	12314.9	11726.2	11125.4	10501.3	9841.8	9159.8	8485.8	7825.5	7170.2	6536.2	5891.3
2.5°	12432.5	11829.1	11226.7	10588.8	9928.4	9241.4	8561.2	7895.2	7234.7	6593.1	5947.9
0°	12515.8	11867.5	11285.1	10658.8	9983.0	9290.7	8609.4	7939.1	7274.3	6620.5	5977.7
-2.5°	12432.5	11829.1	11226.7	10588.8	9928.4	9241.4	8561.2	7895.2	7234.7	6593.1	5947.9
-5°	12314.9	11726.2	11125.4	10501.3	9841.8	9159.8	8485.8	7825.5	7170.2	6536.2	5891.3
-7.5°	12161.8	11575.8	10976.9	10361.4	9707.9	9038.8	8380.5	7732.7	7089.0	6458.7	5827.2
-10°	11954.5	11385.2	10805.5	10188.0	9535.6	8876.8	8237.7	7604.7	6974.9	6352.7	5737.4
-12.5°	11651.9	11128.2	10580.4	9971.1	9331.3	8693.1	8072.5	7445.4	6828.5	6219.6	5622.2
-15°	11314.7	10814.6	10266.0	9689.8	9087.2	8475.5	7878.7	7256.0	6656.5	6064.2	5482.5
-17.5°	10943.5	10442.9	9901.2	9354.8	8790.4	8230.3	7639.3	7039.8	6463.1	5894.3	5327.2
-20°	10522.4	10029.6	9513.2	8994.8	8464.6	7932.7	7356.5	6795.1	6250.9	5702.1	5159.2



REPORT NUMBER: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	10047.7	9588.8	9105.2	8613.0	8111.7	7591.7	7054.1	6526.3	6020.3	5485.8	4968.3
-25°	9532.9	9113.7	8665.0	8204.9	7728.4	7233.6	6729.4	6239.6	5750.7	5253.0	4757.7
-27.5°	8998.1	8609.8	8203.1	7772.3	7322.9	6858.6	6389.6	5926.7	5458.4	4993.3	4541.7
-30°	8448.5	8092.7	7718.4	7320.0	6899.3	6466.7	6030.1	5596.3	5157.3	4719.9	4301.1
-32.5°	7887.6	7566.3	7220.8	6852.0	6464.0	6066.7	5663.6	5254.2	4842.3	4444.8	4048.9
-35°	7331.4	7034.8	6714.4	6377.4	6025.0	5659.9	5285.0	4905.9	4529.6	4157.3	3785.5
-37.5°	6770.0	6499.2	6208.8	5900.4	5580.1	5246.6	4904.9	4558.7	4208.8	3864.6	3521.5
-40°	6222.8	5972.1	5704.1	5423.9	5138.1	4837.1	4526.5	4206.7	3889.4	3569.6	3253.2
-42.5°	5687.8	5456.1	5210.3	4965.2	4703.1	4429.8	4146.1	3858.6	3566.5	3275.6	2996.0
-45°	5150.7	4944.7	4732.2	4509.3	4269.0	4025.0	3770.6	3509.8	3243.9	2991.7	2735.8
-47.5°	4616.8	4449.8	4260.2	4057.8	3847.5	3626.4	3399.7	3161.4	2940.4	2711.1	2492.8
-50°	4131.0	3976.8	3806.1	3623.3	3439.7	3241.6	3042.4	2844.3	2644.5	2446.8	2254.7
-52.5°	3652.6	3518.1	3370.1	3210.9	3045.8	2874.9	2700.8	2536.0	2359.7	2198.4	2038.1
-55°	3188.8	3076.5	2948.8	2808.6	2663.5	2532.0	2388.7	2245.2	2109.7	1967.3	1834.6
-57.5°	2753.3	2658.1	2556.4	2447.7	2332.7	2219.3	2104.8	1986.4	1874.0	1756.6	1636.2
-60°	2360.4	2283.1	2205.2	2120.0	2027.4	1930.4	1841.9	1747.8	1648.4	1552.1	1445.8
-62.5°	2006.1	1954.1	1886.4	1817.7	1747.5	1675.2	1597.4	1520.0	1441.4	1356.3	1259.3
-65°	1671.7	1630.8	1580.9	1533.6	1481.9	1425.6	1362.1	1299.1	1233.3	1161.1	1074.9
-67.5°	1367.5	1339.3	1305.0	1268.3	1231.3	1187.9	1138.2	1083.9	1030.2	970.0	902.1
-70°	1110.5	1092.2	1067.8	1037.5	1007.7	976.6	939.6	895.1	843.0	788.8	739.3
-72.5°	902.4	890.8	874.6	852.2	825.8	797.6	763.1	722.7	678.0	628.9	584.5
-75°	731.1	726.0	715.6	692.9	665.7	633.7	600.5	563.9	521.2	472.1	430.0
-77.5°	579.9	580.5	575.8	551.1	523.9	494.2	460.3	418.6	376.9	334.8	302.7
-80°	425.8	428.7	425.9	401.1	375.9	350.5	323.5	288.9	253.9	220.6	195.6
-82.5°	264.1	263.0	259.2	244.3	229.2	214.1	198.2	174.5	151.3	128.6	108.9
-85°	125.8	120.9	115.7	110.2	104.4	98.3	91.8	80.5	69.9	60.2	51.7
-87.5°	20.7	20.3	19.9	19.5	19.1	18.6	18.0	17.5	16.9	16.2	15.6
-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: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-VWR-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°	15.8	15.9	15.9	15.8	14.0	12.4	10.8	9.3	8.4	7.5	6.6
85°	52.0	50.7	48.0	43.5	34.3	24.7	21.5	18.6	16.8	15.0	13.2
82.5°	108.5	109.6	109.5	106.3	93.8	80.7	66.9	52.6	39.0	24.8	19.8
80°	195.9	193.8	189.2	180.3	159.7	136.5	119.1	101.0	83.3	64.8	45.6
77.5°	296.2	287.7	277.4	265.6	243.9	218.3	188.9	155.5	127.4	104.6	81.0
75°	408.2	394.7	380.2	360.7	332.7	300.7	268.4	229.6	186.3	145.7	116.1
72.5°	548.8	516.2	487.0	459.6	429.2	393.5	352.3	302.2	249.8	200.3	153.8
70°	691.1	642.2	598.6	561.2	524.7	487.2	441.9	380.2	312.1	253.8	199.1
67.5°	835.7	777.9	719.4	663.5	617.4	573.3	529.6	457.8	379.7	306.1	243.3
65°	995.3	918.1	843.9	774.8	712.2	657.0	605.8	530.5	445.3	362.6	286.3
62.5°	1159.7	1061.2	973.3	885.1	807.2	740.1	678.5	595.5	508.1	417.2	331.3
60°	1332.4	1220.3	1103.5	1000.6	904.9	820.2	745.6	659.6	566.8	469.7	375.9
57.5°	1514.3	1382.5	1251.3	1121.2	1006.4	904.7	810.8	720.4	624.6	521.6	417.4
55°	1698.5	1556.6	1401.4	1254.8	1114.0	993.0	879.8	778.7	680.3	572.5	453.3
52.5°	1883.1	1727.1	1560.6	1391.2	1233.6	1082.1	955.7	835.5	731.6	622.3	490.7
50°	2076.1	1897.3	1718.9	1535.9	1352.6	1186.6	1029.0	900.6	781.4	669.6	526.1
47.5°	2277.0	2077.8	1879.2	1679.2	1482.7	1286.6	1114.6	964.4	829.5	712.4	559.1
45°	2497.3	2264.3	2044.4	1828.2	1605.9	1394.6	1201.3	1025.4	884.0	745.8	589.5
42.5°	2717.3	2461.1	2215.4	1974.9	1734.9	1502.0	1283.4	1097.3	936.2	777.6	617.4
40°	2951.4	2658.6	2386.2	2125.2	1860.8	1604.1	1374.4	1167.4	985.1	810.8	643.9
37.5°	3179.0	2861.0	2561.7	2268.8	1984.2	1714.3	1461.8	1233.1	1031.5	848.0	669.0
35°	3419.9	3064.4	2724.0	2413.4	2111.2	1818.9	1543.7	1299.3	1084.9	884.2	692.6
32.5°	3652.7	3263.3	2898.2	2555.9	2232.5	1917.5	1627.9	1369.3	1136.2	919.4	714.7
30°	3881.4	3462.9	3065.1	2690.7	2350.1	2020.8	1712.4	1434.8	1185.3	953.4	736.9
27.5°	4092.2	3647.8	3225.1	2830.1	2465.6	2118.9	1792.2	1495.6	1231.9	988.3	762.6
25°	4288.6	3825.7	3382.8	2964.1	2572.7	2211.8	1865.7	1551.8	1279.3	1024.8	786.5
22.5°	4472.9	3990.9	3525.8	3087.7	2672.0	2297.2	1937.4	1611.7	1324.1	1058.3	808.3
20°	4640.5	4139.6	3653.8	3199.6	2768.6	2378.4	2006.3	1665.4	1364.2	1088.8	828.0
17.5°	4791.4	4275.6	3776.0	3304.3	2858.5	2450.6	2067.5	1712.7	1399.4	1115.9	845.3
15°	4931.4	4399.1	3884.0	3395.6	2936.4	2513.5	2120.8	1753.5	1429.5	1139.5	861.8
12.5°	5051.8	4505.1	3975.7	3473.2	3002.0	2566.8	2165.9	1787.7	1454.6	1160.8	877.4
10°	5150.9	4592.7	4050.5	3536.7	3055.1	2610.1	2202.5	1816.5	1478.1	1179.2	889.3
7.5°	5228.1	4661.3	4108.2	3585.6	3097.2	2646.3	2233.7	1841.4	1497.0	1193.4	897.7
5°	5286.6	4714.9	4158.4	3626.6	3135.9	2675.6	2256.4	1859.2	1510.8	1203.1	902.5
2.5°	5338.5	4755.0	4197.8	3653.2	3162.2	2694.7	2270.0	1869.9	1519.1	1208.3	903.6
0°	5367.8	4774.5	4219.6	3664.6	3175.7	2703.2	2274.6	1873.5	1521.9	1208.7	901.1
-2.5°	5338.5	4755.0	4197.8	3653.2	3162.2	2694.7	2270.0	1869.9	1519.1	1208.3	903.6
-5°	5286.6	4714.9	4158.4	3626.6	3135.9	2675.6	2256.4	1859.2	1510.8	1203.1	902.5
-7.5°	5228.1	4661.3	4108.2	3585.6	3097.2	2646.3	2233.7	1841.4	1497.0	1193.4	897.7
-10°	5150.9	4592.7	4050.5	3536.7	3055.1	2610.1	2202.5	1816.5	1478.1	1179.2	889.3
-12.5°	5051.8	4505.1	3975.7	3473.2	3002.0	2566.8	2165.9	1787.7	1454.6	1160.8	877.4
-15°	4931.4	4399.1	3884.0	3395.6	2936.4	2513.5	2120.8	1753.5	1429.5	1139.5	861.8
-17.5°	4791.4	4275.6	3776.0	3304.3	2858.5	2450.6	2067.5	1712.7	1399.4	1115.9	845.3
-20°	4640.5	4139.6	3653.8	3199.6	2768.6	2378.4	2006.3	1665.4	1364.2	1088.8	828.0

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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°	4472.9	3990.9	3525.8	3087.7	2672.0	2297.2	1937.4	1611.7	1324.1	1058.3	808.3
-25°	4288.6	3825.7	3382.8	2964.1	2572.7	2211.8	1865.7	1551.8	1279.3	1024.8	786.5
-27.5°	4092.2	3647.8	3225.1	2830.1	2465.6	2118.9	1792.2	1495.6	1231.9	988.3	762.6
-30°	3881.4	3462.9	3065.1	2690.7	2350.1	2020.8	1712.4	1434.8	1185.3	953.4	736.9
-32.5°	3652.7	3263.3	2898.2	2555.9	2232.5	1917.5	1627.9	1369.3	1136.2	919.4	714.7
-35°	3419.9	3064.4	2724.0	2413.4	2111.2	1818.9	1543.7	1299.3	1084.9	884.2	692.6
-37.5°	3179.0	2861.0	2561.7	2268.8	1984.2	1714.3	1461.8	1233.1	1031.5	848.0	669.0
-40°	2951.4	2658.6	2386.2	2125.2	1860.8	1604.1	1374.4	1167.4	985.1	810.8	643.9
-42.5°	2717.3	2461.1	2215.4	1974.9	1734.9	1502.0	1283.4	1097.3	936.2	777.6	617.4
-45°	2497.3	2264.3	2044.4	1828.2	1605.9	1394.6	1201.3	1025.4	884.0	745.8	589.5
-47.5°	2277.0	2077.8	1879.2	1679.2	1482.7	1286.6	1114.6	964.4	829.5	712.4	559.1
-50°	2076.1	1897.3	1718.9	1535.9	1352.6	1186.6	1029.0	900.6	781.4	669.6	526.1
-52.5°	1883.1	1727.1	1560.6	1391.2	1233.6	1082.1	955.7	835.5	731.6	622.3	490.7
-55°	1698.5	1556.6	1401.4	1254.8	1114.0	993.0	879.8	778.7	680.3	572.5	453.3
-57.5°	1514.3	1382.5	1251.3	1121.2	1006.4	904.7	810.8	720.4	624.6	521.6	417.4
-60°	1332.4	1220.3	1103.5	1000.6	904.9	820.2	745.6	659.6	566.8	469.7	375.9
-62.5°	1159.7	1061.2	973.3	885.1	807.2	740.1	678.5	595.5	508.1	417.2	331.3
-65°	995.3	918.1	843.9	774.8	712.2	657.0	605.8	530.5	445.3	362.6	286.3
-67.5°	835.7	777.9	719.4	663.5	617.4	573.3	529.6	457.8	379.7	306.1	243.3
-70°	691.1	642.2	598.6	561.2	524.7	487.2	441.9	380.2	312.1	253.8	199.1
-72.5°	548.8	516.2	487.0	459.6	429.2	393.5	352.3	302.2	249.8	200.3	153.8
-75°	408.2	394.7	380.2	360.7	332.7	300.7	268.4	229.6	186.3	145.7	116.1
-77.5°	296.2	287.7	277.4	265.6	243.9	218.3	188.9	155.5	127.4	104.6	81.0
-80°	195.9	193.8	189.2	180.3	159.7	136.5	119.1	101.0	83.3	64.8	45.6
-82.5°	108.5	109.6	109.5	106.3	93.8	80.7	66.9	52.6	39.0	24.8	19.8
-85°	52.0	50.7	48.0	43.5	34.3	24.7	21.5	18.6	16.8	15.0	13.2
-87.5°	15.8	15.9	15.9	15.8	14.0	12.4	10.8	9.3	8.4	7.5	6.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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REPORT NUMBER: P627441 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	4.8	3.8	2.9	1.9	0.8	0.0
85°	11.4	9.5	7.6	5.7	3.8	1.7	0.0
82.5°	17.0	14.2	11.4	8.6	5.7	2.5	0.0
80°	25.6	19.0	15.2	11.4	7.6	3.3	0.0
77.5°	55.8	29.7	19.0	14.2	9.5	4.2	0.0
75°	85.2	51.4	24.7	17.0	11.3	5.0	0.0
72.5°	113.7	72.4	39.3	19.8	13.1	5.7	0.0
70°	142.2	92.7	53.5	23.7	14.8	6.5	0.0
67.5°	176.5	112.1	67.1	32.5	16.5	7.3	0.0
65°	209.2	133.9	80.1	40.9	18.1	8.0	0.0
62.5°	240.3	157.8	92.4	48.9	19.7	8.7	0.0
60°	269.6	180.4	104.0	56.5	21.2	9.4	0.0
57.5°	300.5	201.6	119.5	63.7	25.5	10.1	0.0
55°	329.7	221.3	134.2	70.3	29.7	10.8	0.0
52.5°	356.8	240.0	147.9	76.5	33.7	11.4	0.0
50°	381.5	259.9	160.5	82.1	37.5	12.0	0.0
47.5°	404.8	278.0	172.0	88.0	41.2	12.5	0.0
45°	430.6	294.4	182.3	95.6	44.7	13.0	0.0
42.5°	454.3	309.0	191.5	102.5	48.0	13.5	0.0
40°	475.8	321.7	200.7	109.6	51.1	14.0	0.0
37.5°	495.0	332.6	209.8	116.6	54.0	14.4	0.0
35°	512.0	345.1	217.6	123.1	56.7	14.8	0.0
32.5°	527.7	357.7	224.1	129.1	59.2	15.2	0.0
30°	544.0	368.4	229.4	134.6	61.4	15.5	0.0
27.5°	558.7	377.3	237.3	139.5	63.5	15.8	0.0
25°	571.5	384.3	244.6	144.0	65.3	16.0	0.0
22.5°	582.6	391.4	251.1	147.9	66.9	16.2	0.0
20°	591.7	401.1	256.7	151.3	68.3	16.4	0.0
17.5°	603.1	409.1	261.4	154.2	69.5	16.5	0.0
15°	615.0	415.3	265.2	156.5	70.4	16.6	0.0
12.5°	624.7	419.8	268.1	158.3	71.1	16.7	0.0
10°	632.0	422.5	270.1	159.5	71.6	16.7	0.0
7.5°	637.0	423.6	271.2	160.3	71.9	16.7	0.0
5°	639.6	423.2	271.4	160.5	71.9	16.7	0.0
2.5°	639.7	421.1	270.7	160.1	71.8	16.6	0.0
0°	637.3	417.6	269.2	159.3	71.4	16.5	0.0
-2.5°	639.7	421.1	270.7	160.1	71.8	16.6	0.0
-5°	639.6	423.2	271.4	160.5	71.9	16.7	0.0
-7.5°	637.0	423.6	271.2	160.3	71.9	16.7	0.0
-10°	632.0	422.5	270.1	159.5	71.6	16.7	0.0
-12.5°	624.7	419.8	268.1	158.3	71.1	16.7	0.0
-15°	615.0	415.3	265.2	156.5	70.4	16.6	0.0
-17.5°	603.1	409.1	261.4	154.2	69.5	16.5	0.0
-20°	591.7	401.1	256.7	151.3	68.3	16.4	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	582.6	391.4	251.1	147.9	66.9	16.2	0.0
-25°	571.5	384.3	244.6	144.0	65.3	16.0	0.0
-27.5°	558.7	377.3	237.3	139.5	63.5	15.8	0.0
-30°	544.0	368.4	229.4	134.6	61.4	15.5	0.0
-32.5°	527.7	357.7	224.1	129.1	59.2	15.2	0.0
-35°	512.0	345.1	217.6	123.1	56.7	14.8	0.0
-37.5°	495.0	332.6	209.8	116.6	54.0	14.4	0.0
-40°	475.8	321.7	200.7	109.6	51.1	14.0	0.0
-42.5°	454.3	309.0	191.5	102.5	48.0	13.5	0.0
-45°	430.6	294.4	182.3	95.6	44.7	13.0	0.0
-47.5°	404.8	278.0	172.0	88.0	41.2	12.5	0.0
-50°	381.5	259.9	160.5	82.1	37.5	12.0	0.0
-52.5°	356.8	240.0	147.9	76.5	33.7	11.4	0.0
-55°	329.7	221.3	134.2	70.3	29.7	10.8	0.0
-57.5°	300.5	201.6	119.5	63.7	25.5	10.1	0.0
-60°	269.6	180.4	104.0	56.5	21.2	9.4	0.0
-62.5°	240.3	157.8	92.4	48.9	19.7	8.7	0.0
-65°	209.2	133.9	80.1	40.9	18.1	8.0	0.0
-67.5°	176.5	112.1	67.1	32.5	16.5	7.3	0.0
-70°	142.2	92.7	53.5	23.7	14.8	6.5	0.0
-72.5°	113.7	72.4	39.3	19.8	13.1	5.7	0.0
-75°	85.2	51.4	24.7	17.0	11.3	5.0	0.0
-77.5°	55.8	29.7	19.0	14.2	9.5	4.2	0.0
-80°	25.6	19.0	15.2	11.4	7.6	3.3	0.0
-82.5°	17.0	14.2	11.4	8.6	5.7	2.5	0.0
-85°	11.4	9.5	7.6	5.7	3.8	1.7	0.0
-87.5°	5.7	4.8	3.8	2.9	1.9	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)