

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: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA5C-722-U-VWR-XX**

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-08
Report Number: P627611 (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: 12/7/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA5C-722-U-VWR-XX
Description: GALLEON FLOOD, FIVE LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N110
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

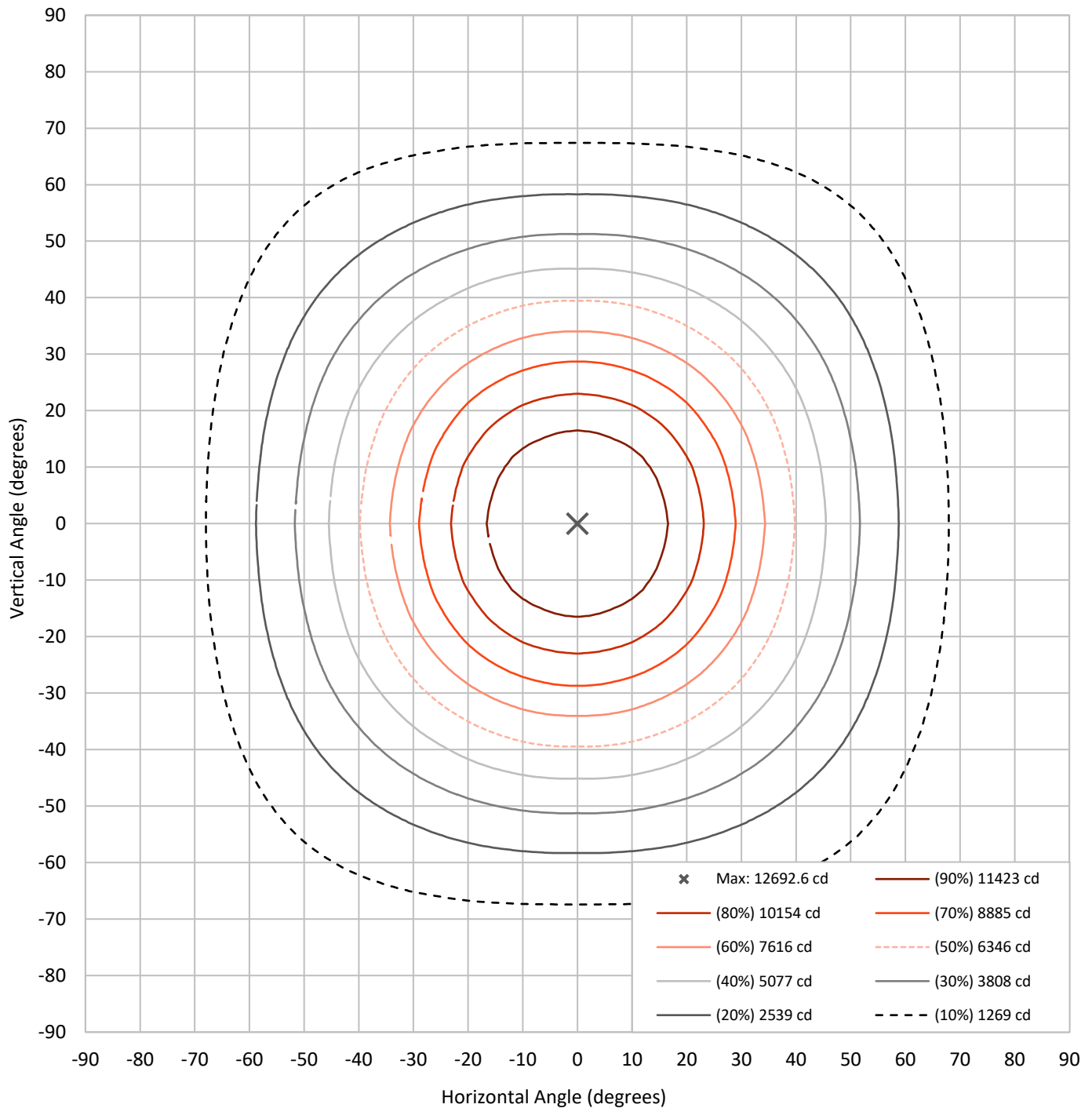
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	22940.7 lumens	Max Intensity:	12692.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	111.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	13454.9 lumens	Field Lumens:	21870.1 lumens
Beam Efficiency:	58.7%	Field Efficiency:	95.3%
Input Watts (W):	206.1		
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





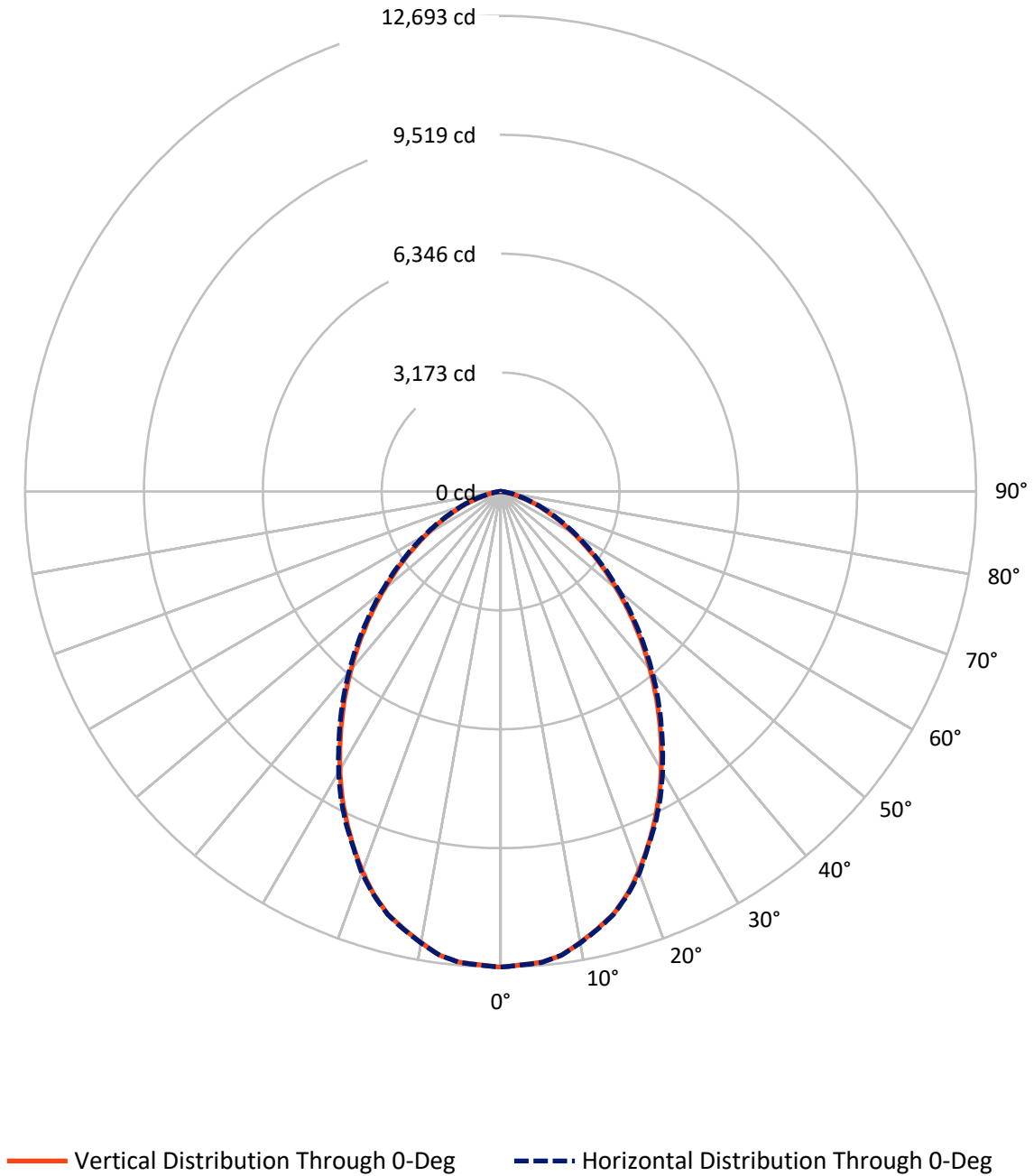
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Lumen Table

90																			
80	0.8	9.4	25.6	43.4	41.0	43.4	25.6	9.4	0.8										
70																			
60	4.3	5.9	11.9	20.2	29.6	38.2	44.7	47.9	47.9	44.7	38.2	29.6	20.2	11.9	5.9	4.3			
50		8.8	19.3	34.4	52.1	70.8	86.2	94.2	94.2	86.2	70.8	52.1	34.4	19.3	8.8				
40	7.5	11.9	27.9	51.5	81.6	113.1	139.5	153.9	153.9	139.5	113.1	81.6	51.5	27.9	11.9	7.5			
30		15.0	37.0	70.9	114.2	160.2	199.4	221.7	221.7	199.4	160.2	114.2	70.9	37.0	15.0				
20	9.6	17.9	45.5	89.1	145.4	206.4	259.7	290.2	290.2	259.7	206.4	145.4	89.1	45.5	17.9	9.6			
10		20.2	52.0	102.8	169.8	244.0	309.4	346.6	346.6	309.4	244.0	169.8	102.8	52.0	20.2				
0	10.5	21.5	55.7	110.6	183.3	264.8	336.3	375.5	375.5	336.3	264.8	183.3	110.6	55.7	21.5	10.5			
-10		21.5	55.7	110.6	183.3	264.8	336.3	375.5	375.5	336.3	264.8	183.3	110.6	55.7	21.5				
-20	9.6	20.2	52.0	102.8	169.8	244.0	309.4	346.6	346.6	309.4	244.0	169.8	102.8	52.0	20.2	9.6			
-30		17.9	45.5	89.1	145.4	206.4	259.7	290.2	290.2	259.7	206.4	145.4	89.1	45.5	17.9				
-40	7.5	15.0	37.0	70.9	114.2	160.2	199.4	221.7	221.7	199.4	160.2	114.2	70.9	37.0	15.0	7.5			
-50		11.9	27.9	51.5	81.6	113.1	139.5	153.9	153.9	139.5	113.1	81.6	51.5	27.9	11.9				
-60	4.3	8.8	19.3	34.4	52.1	70.8	86.2	94.2	94.2	86.2	70.8	52.1	34.4	19.3	8.8	4.3			
-70		5.9	11.9	20.2	29.6	38.2	44.7	47.9	47.9	44.7	38.2	29.6	20.2	11.9	5.9				
-80	0.8	9.4	25.6	43.4	41.0	43.4	25.6	9.4	0.8										
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

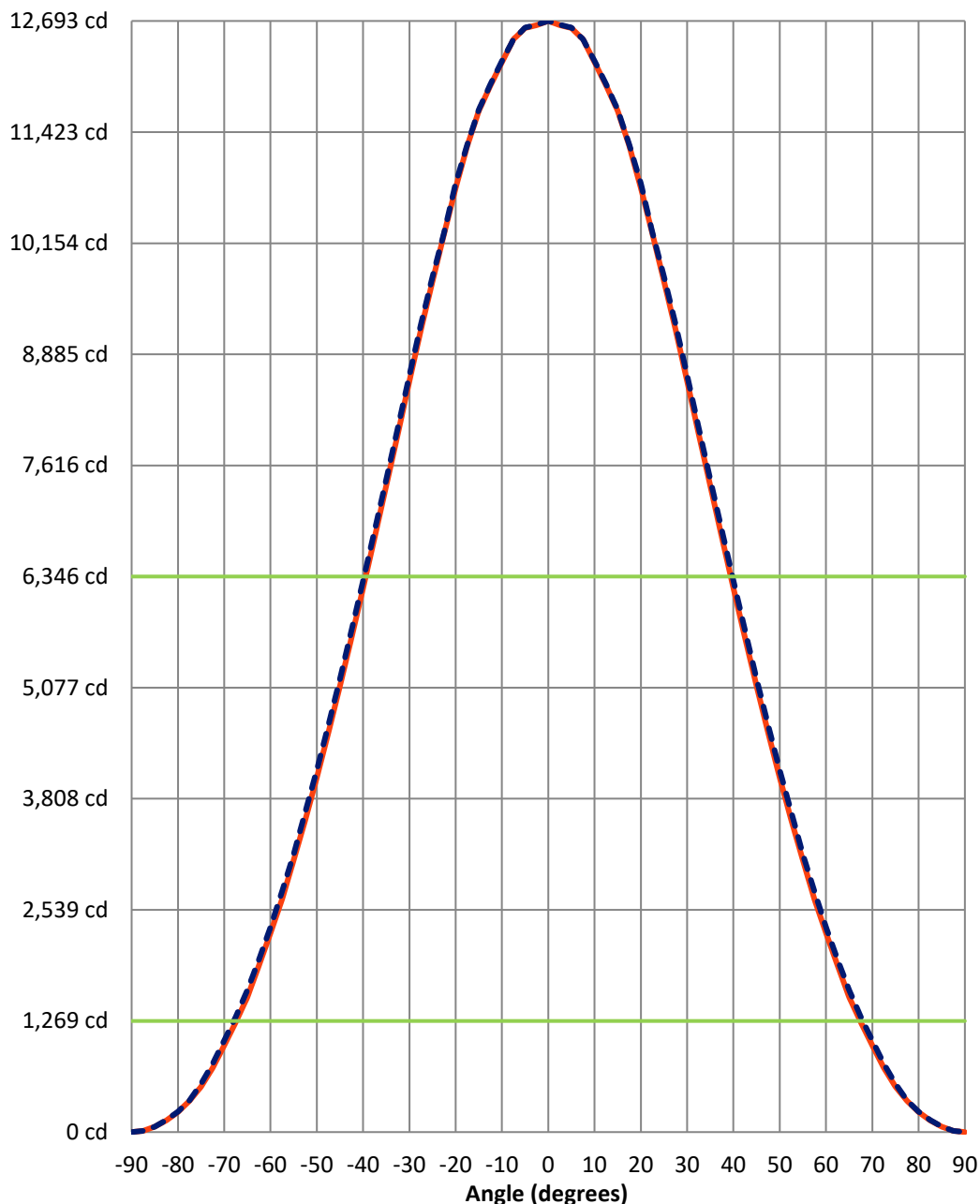
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 79.6°
 V Angle: 78.9°
 Lumens: 13454.9
 Efficiency: 58.7%

Field:
 H Angle: 135.9°
 V Angle: 134.8°
 Lumens: 21870.1
 Efficiency: 95.3%

Spill:
 Lumens: 1070.7
 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	0.7	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
85°	0.0	1.4	3.3	5.0	6.6	8.2	9.8	11.4	13.0	14.5	16.0
82.5°	0.0	2.2	4.9	7.4	9.9	12.3	14.7	17.1	21.4	33.7	45.5
80°	0.0	2.9	6.6	9.9	13.1	16.4	22.1	39.4	56.1	72.1	87.4
77.5°	0.0	3.6	8.2	12.3	16.4	25.7	48.3	70.1	90.6	110.2	134.6
75°	0.0	4.3	9.7	14.7	21.3	44.5	73.8	100.5	126.1	161.3	198.7
72.5°	0.0	5.0	11.3	17.1	34.0	62.7	98.5	133.2	173.4	216.3	261.7
70°	0.0	5.6	12.8	20.5	46.3	80.3	123.2	172.4	219.7	270.2	329.2
67.5°	0.0	6.3	14.3	28.1	58.1	97.1	152.9	210.7	265.0	328.8	396.4
65°	0.0	6.9	15.7	35.4	69.4	116.0	181.2	247.9	313.9	385.6	459.3
62.5°	0.0	7.6	17.0	42.3	80.1	136.7	208.1	286.8	361.2	440.0	515.6
60°	0.0	8.2	18.4	48.9	90.1	156.2	233.5	325.5	406.8	490.8	571.1
57.5°	0.0	8.7	22.1	55.1	103.5	174.5	260.2	361.5	451.6	540.8	623.7
55°	0.0	9.3	25.7	60.9	116.2	191.6	285.5	392.6	495.8	589.0	674.2
52.5°	0.0	9.8	29.2	66.3	128.1	207.8	308.9	424.9	538.9	633.5	723.4
50°	0.0	10.3	32.5	71.1	139.0	225.0	330.4	455.6	579.8	676.6	779.8
47.5°	0.0	10.8	35.7	76.2	148.9	240.7	350.5	484.1	616.9	718.3	835.1
45°	0.0	11.3	38.7	82.8	157.8	254.9	372.9	510.4	645.7	765.5	888.0
42.5°	0.0	11.7	41.6	88.8	165.8	267.5	393.4	534.6	673.4	810.7	950.2
40°	0.0	12.1	44.2	94.9	173.7	278.5	412.0	557.5	702.1	853.0	1010.8
37.5°	0.0	12.5	46.7	101.0	181.6	287.9	428.6	579.3	734.3	893.2	1067.6
35°	0.0	12.8	49.1	106.6	188.4	298.8	443.3	599.7	765.7	939.4	1124.9
32.5°	0.0	13.1	51.2	111.8	194.1	309.7	456.9	618.9	796.1	983.8	1185.6
30°	0.0	13.4	53.2	116.5	198.6	319.0	471.1	638.0	825.6	1026.3	1242.4
27.5°	0.0	13.6	55.0	120.8	205.4	326.7	483.7	660.3	855.8	1066.6	1295.0
25°	0.0	13.9	56.6	124.7	211.8	332.8	494.9	681.0	887.4	1107.6	1343.7
22.5°	0.0	14.0	57.9	128.1	217.4	338.9	504.5	699.9	916.4	1146.5	1395.5
20°	0.0	14.2	59.1	131.0	222.3	347.4	512.4	717.0	942.7	1181.2	1442.0
17.5°	0.0	14.3	60.1	133.5	226.3	354.3	522.2	731.9	966.2	1211.7	1483.0
15°	0.0	14.4	61.0	135.5	229.6	359.6	532.5	746.3	986.6	1237.8	1518.4
12.5°	0.0	14.5	61.6	137.1	232.1	363.5	540.9	759.7	1005.1	1259.5	1548.0
10°	0.0	14.5	62.0	138.2	233.8	365.9	547.3	770.1	1021.1	1279.9	1572.9
7.5°	0.0	14.5	62.2	138.8	234.8	366.8	551.6	777.3	1033.3	1296.3	1594.5
5°	0.0	14.4	62.3	139.0	235.0	366.4	553.9	781.4	1041.8	1308.1	1609.9
2.5°	0.0	14.4	62.1	138.7	234.4	364.7	554.0	782.4	1046.2	1315.4	1619.2
0°	0.0	14.3	61.8	138.0	233.1	361.6	551.9	780.2	1046.6	1317.8	1622.3
-2.5°	0.0	14.4	62.1	138.7	234.4	364.7	554.0	782.4	1046.2	1315.4	1619.2
-5°	0.0	14.4	62.3	139.0	235.0	366.4	553.9	781.4	1041.8	1308.1	1609.9
-7.5°	0.0	14.5	62.2	138.8	234.8	366.8	551.6	777.3	1033.3	1296.3	1594.5
-10°	0.0	14.5	62.0	138.2	233.8	365.9	547.3	770.1	1021.1	1279.9	1572.9
-12.5°	0.0	14.5	61.6	137.1	232.1	363.5	540.9	759.7	1005.1	1259.5	1548.0
-15°	0.0	14.4	61.0	135.5	229.6	359.6	532.5	746.3	986.6	1237.8	1518.4
-17.5°	0.0	14.3	60.1	133.5	226.3	354.3	522.2	731.9	966.2	1211.7	1483.0
-20°	0.0	14.2	59.1	131.0	222.3	347.4	512.4	717.0	942.7	1181.2	1442.0

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CATALOG NUMBER: GFLD-SA5C-722-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	14.0	57.9	128.1	217.4	338.9	504.5	699.9	916.4	1146.5	1395.5
-25°	0.0	13.9	56.6	124.7	211.8	332.8	494.9	681.0	887.4	1107.6	1343.7
-27.5°	0.0	13.6	55.0	120.8	205.4	326.7	483.7	660.3	855.8	1066.6	1295.0
-30°	0.0	13.4	53.2	116.5	198.6	319.0	471.1	638.0	825.6	1026.3	1242.4
-32.5°	0.0	13.1	51.2	111.8	194.1	309.7	456.9	618.9	796.1	983.8	1185.6
-35°	0.0	12.8	49.1	106.6	188.4	298.8	443.3	599.7	765.7	939.4	1124.9
-37.5°	0.0	12.5	46.7	101.0	181.6	287.9	428.6	579.3	734.3	893.2	1067.6
-40°	0.0	12.1	44.2	94.9	173.7	278.5	412.0	557.5	702.1	853.0	1010.8
-42.5°	0.0	11.7	41.6	88.8	165.8	267.5	393.4	534.6	673.4	810.7	950.2
-45°	0.0	11.3	38.7	82.8	157.8	254.9	372.9	510.4	645.7	765.5	888.0
-47.5°	0.0	10.8	35.7	76.2	148.9	240.7	350.5	484.1	616.9	718.3	835.1
-50°	0.0	10.3	32.5	71.1	139.0	225.0	330.4	455.6	579.8	676.6	779.8
-52.5°	0.0	9.8	29.2	66.3	128.1	207.8	308.9	424.9	538.9	633.5	723.4
-55°	0.0	9.3	25.7	60.9	116.2	191.6	285.5	392.6	495.8	589.0	674.2
-57.5°	0.0	8.7	22.1	55.1	103.5	174.5	260.2	361.5	451.6	540.8	623.7
-60°	0.0	8.2	18.4	48.9	90.1	156.2	233.5	325.5	406.8	490.8	571.1
-62.5°	0.0	7.6	17.0	42.3	80.1	136.7	208.1	286.8	361.2	440.0	515.6
-65°	0.0	6.9	15.7	35.4	69.4	116.0	181.2	247.9	313.9	385.6	459.3
-67.5°	0.0	6.3	14.3	28.1	58.1	97.1	152.9	210.7	265.0	328.8	396.4
-70°	0.0	5.6	12.8	20.5	46.3	80.3	123.2	172.4	219.7	270.2	329.2
-72.5°	0.0	5.0	11.3	17.1	34.0	62.7	98.5	133.2	173.4	216.3	261.7
-75°	0.0	4.3	9.7	14.7	21.3	44.5	73.8	100.5	126.1	161.3	198.7
-77.5°	0.0	3.6	8.2	12.3	16.4	25.7	48.3	70.1	90.6	110.2	134.6
-80°	0.0	2.9	6.6	9.9	13.1	16.4	22.1	39.4	56.1	72.1	87.4
-82.5°	0.0	2.2	4.9	7.4	9.9	12.3	14.7	17.1	21.4	33.7	45.5
-85°	0.0	1.4	3.3	5.0	6.6	8.2	9.8	11.4	13.0	14.5	16.0
-87.5°	0.0	0.7	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
-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°	9.3	10.7	12.1	13.6	13.8	13.8	13.7	13.4	14.0	14.6	15.1
85°	18.6	21.3	29.6	37.7	41.5	43.9	45.0	44.8	52.1	60.5	69.7
82.5°	57.9	69.8	81.2	92.0	94.8	94.9	94.0	94.3	111.4	131.0	151.1
80°	103.0	118.2	138.2	156.0	163.8	167.8	169.6	169.3	191.0	219.8	250.1
77.5°	163.5	189.0	211.1	230.0	240.2	249.1	256.4	262.0	289.9	326.4	362.5
75°	232.3	260.3	288.1	312.3	329.3	341.8	353.5	372.3	408.7	451.3	488.3
72.5°	305.0	340.7	371.7	398.0	421.8	447.0	475.2	506.1	544.5	587.0	625.8
70°	382.6	421.9	454.3	486.0	518.4	556.1	598.4	640.1	683.0	729.9	775.0
67.5°	458.5	496.4	534.6	574.6	623.0	673.6	723.6	781.1	839.9	892.0	938.6
65°	524.5	568.9	616.7	670.9	730.7	795.0	861.8	930.8	1005.4	1067.9	1124.9
62.5°	587.5	640.9	698.9	766.4	842.7	918.8	1004.1	1090.4	1174.4	1248.0	1316.1
60°	645.5	710.1	783.6	866.3	955.5	1056.6	1153.7	1251.8	1343.9	1427.3	1513.4
57.5°	702.0	783.3	871.4	970.8	1083.5	1197.1	1311.2	1416.8	1521.0	1622.7	1720.0
55°	761.8	859.8	964.6	1086.5	1213.5	1347.9	1470.8	1588.6	1703.5	1826.8	1944.1
52.5°	827.5	937.0	1068.1	1204.6	1351.3	1495.6	1630.6	1764.8	1903.6	2043.2	2195.9
50°	891.0	1027.5	1171.2	1329.9	1488.4	1642.9	1797.7	1952.4	2118.7	2289.9	2462.8
47.5°	965.1	1114.0	1283.8	1454.0	1627.2	1799.2	1971.7	2158.6	2347.5	2546.0	2737.4
45°	1040.1	1207.6	1390.5	1583.0	1770.2	1960.6	2162.4	2368.9	2590.5	2808.8	3039.0
42.5°	1111.2	1300.5	1502.2	1710.0	1918.3	2131.1	2352.9	2594.2	2836.3	3088.1	3341.1
40°	1190.0	1388.9	1611.3	1840.2	2066.2	2302.1	2555.6	2816.9	3090.8	3367.8	3642.5
37.5°	1265.7	1484.4	1718.1	1964.5	2218.1	2477.3	2752.7	3049.2	3346.3	3644.4	3947.3
35°	1336.6	1575.0	1828.1	2089.7	2358.7	2653.5	2961.2	3277.8	3599.7	3922.1	4247.9
32.5°	1409.6	1660.3	1933.1	2213.1	2509.5	2825.7	3162.8	3505.8	3848.7	4192.9	4549.6
30°	1482.8	1749.8	2034.9	2329.8	2654.1	2998.5	3360.8	3724.2	4086.9	4465.7	4845.8
27.5°	1551.9	1834.7	2134.9	2450.5	2792.6	3158.6	3543.4	3932.7	4323.7	4726.3	5131.8
25°	1615.5	1915.2	2227.7	2566.6	2929.2	3312.6	3713.4	4119.7	4548.5	4979.4	5402.8
22.5°	1677.6	1989.0	2313.6	2673.6	3053.0	3455.6	3873.0	4302.0	4750.1	5212.9	5651.0
20°	1737.2	2059.4	2397.3	2770.5	3163.8	3584.4	4018.1	4467.2	4937.4	5412.5	5883.8
17.5°	1790.3	2121.9	2475.2	2861.1	3269.6	3702.1	4148.7	4612.7	5103.8	5596.3	6095.6
15°	1836.4	2176.4	2542.6	2940.2	3363.1	3809.1	4270.0	4747.2	5250.9	5763.7	6282.9
12.5°	1875.4	2222.5	2599.4	3007.4	3442.5	3900.9	4374.3	4868.2	5385.5	5912.7	6446.8
10°	1907.1	2260.0	2645.3	3062.4	3507.3	3976.7	4460.1	4967.9	5500.7	6039.4	6584.8
7.5°	1934.1	2291.4	2681.8	3104.7	3557.2	4036.1	4526.9	5045.7	5592.5	6138.2	6695.5
5°	1953.7	2316.7	2715.2	3140.2	3600.6	4082.5	4577.5	5101.1	5659.7	6208.6	6775.9
2.5°	1965.6	2333.2	2738.0	3163.3	3634.8	4117.3	4622.5	5150.1	5708.9	6264.4	6836.3
0°	1969.5	2340.6	2749.7	3173.1	3653.6	4134.1	4647.9	5176.0	5732.6	6298.7	6874.4
-2.5°	1965.6	2333.2	2738.0	3163.3	3634.8	4117.3	4622.5	5150.1	5708.9	6264.4	6836.3
-5°	1953.7	2316.7	2715.2	3140.2	3600.6	4082.5	4577.5	5101.1	5659.7	6208.6	6775.9
-7.5°	1934.1	2291.4	2681.8	3104.7	3557.2	4036.1	4526.9	5045.7	5592.5	6138.2	6695.5
-10°	1907.1	2260.0	2645.3	3062.4	3507.3	3976.7	4460.1	4967.9	5500.7	6039.4	6584.8
-12.5°	1875.4	2222.5	2599.4	3007.4	3442.5	3900.9	4374.3	4868.2	5385.5	5912.7	6446.8
-15°	1836.4	2176.4	2542.6	2940.2	3363.1	3809.1	4270.0	4747.2	5250.9	5763.7	6282.9
-17.5°	1790.3	2121.9	2475.2	2861.1	3269.6	3702.1	4148.7	4612.7	5103.8	5596.3	6095.6
-20°	1737.2	2059.4	2397.3	2770.5	3163.8	3584.4	4018.1	4467.2	4937.4	5412.5	5883.8



REPORT NUMBER: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-722-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°	1677.6	1989.0	2313.6	2673.6	3053.0	3455.6	3873.0	4302.0	4750.1	5212.9	5651.0
-25°	1615.5	1915.2	2227.7	2566.6	2929.2	3312.6	3713.4	4119.7	4548.5	4979.4	5402.8
-27.5°	1551.9	1834.7	2134.9	2450.5	2792.6	3158.6	3543.4	3932.7	4323.7	4726.3	5131.8
-30°	1482.8	1749.8	2034.9	2329.8	2654.1	2998.5	3360.8	3724.2	4086.9	4465.7	4845.8
-32.5°	1409.6	1660.3	1933.1	2213.1	2509.5	2825.7	3162.8	3505.8	3848.7	4192.9	4549.6
-35°	1336.6	1575.0	1828.1	2089.7	2358.7	2653.5	2961.2	3277.8	3599.7	3922.1	4247.9
-37.5°	1265.7	1484.4	1718.1	1964.5	2218.1	2477.3	2752.7	3049.2	3346.3	3644.4	3947.3
-40°	1190.0	1388.9	1611.3	1840.2	2066.2	2302.1	2555.6	2816.9	3090.8	3367.8	3642.5
-42.5°	1111.2	1300.5	1502.2	1710.0	1918.3	2131.1	2352.9	2594.2	2836.3	3088.1	3341.1
-45°	1040.1	1207.6	1390.5	1583.0	1770.2	1960.6	2162.4	2368.9	2590.5	2808.8	3039.0
-47.5°	965.1	1114.0	1283.8	1454.0	1627.2	1799.2	1971.7	2158.6	2347.5	2546.0	2737.4
-50°	891.0	1027.5	1171.2	1329.9	1488.4	1642.9	1797.7	1952.4	2118.7	2289.9	2462.8
-52.5°	827.5	937.0	1068.1	1204.6	1351.3	1495.6	1630.6	1764.8	1903.6	2043.2	2195.9
-55°	761.8	859.8	964.6	1086.5	1213.5	1347.9	1470.8	1588.6	1703.5	1826.8	1944.1
-57.5°	702.0	783.3	871.4	970.8	1083.5	1197.1	1311.2	1416.8	1521.0	1622.7	1720.0
-60°	645.5	710.1	783.6	866.3	955.5	1056.6	1153.7	1251.8	1343.9	1427.3	1513.4
-62.5°	587.5	640.9	698.9	766.4	842.7	918.8	1004.1	1090.4	1174.4	1248.0	1316.1
-65°	524.5	568.9	616.7	670.9	730.7	795.0	861.8	930.8	1005.4	1067.9	1124.9
-67.5°	458.5	496.4	534.6	574.6	623.0	673.6	723.6	781.1	839.9	892.0	938.6
-70°	382.6	421.9	454.3	486.0	518.4	556.1	598.4	640.1	683.0	729.9	775.0
-72.5°	305.0	340.7	371.7	398.0	421.8	447.0	475.2	506.1	544.5	587.0	625.8
-75°	232.3	260.3	288.1	312.3	329.3	341.8	353.5	372.3	408.7	451.3	488.3
-77.5°	163.5	189.0	211.1	230.0	240.2	249.1	256.4	262.0	289.9	326.4	362.5
-80°	103.0	118.2	138.2	156.0	163.8	167.8	169.6	169.3	191.0	219.8	250.1
-82.5°	57.9	69.8	81.2	92.0	94.8	94.9	94.0	94.3	111.4	131.0	151.1
-85°	18.6	21.3	29.6	37.7	41.5	43.9	45.0	44.8	52.1	60.5	69.7
-87.5°	9.3	10.7	12.1	13.6	13.8	13.8	13.7	13.4	14.0	14.6	15.1
-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: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-722-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°	15.6	16.0	16.5	16.9	17.2	17.6	17.9	18.1	18.4	17.4	16.4
85°	79.5	85.1	90.3	95.3	100.1	104.6	108.9	112.9	116.5	106.4	95.3
82.5°	171.6	185.4	198.5	211.5	224.4	227.7	228.7	228.3	226.5	208.7	189.1
80°	280.1	303.4	325.4	347.2	368.7	371.2	368.7	364.3	358.0	334.7	308.3
77.5°	398.6	427.9	453.7	477.2	498.6	502.7	502.1	501.0	499.2	475.5	446.7
75°	520.0	548.8	576.4	600.0	619.6	628.7	633.1	636.2	637.9	620.9	598.5
72.5°	660.8	690.7	715.1	738.0	757.3	771.3	781.4	789.0	794.1	789.0	779.8
70°	813.6	845.6	872.6	898.4	924.6	945.7	961.5	973.1	980.4	985.2	988.5
67.5°	985.6	1028.6	1066.2	1098.2	1129.9	1159.6	1184.1	1204.1	1219.5	1232.7	1242.7
65°	1179.4	1234.4	1283.1	1327.9	1368.9	1412.1	1447.5	1477.2	1501.1	1520.9	1536.8
62.5°	1383.1	1450.5	1513.1	1573.9	1633.4	1692.0	1737.0	1778.0	1814.4	1845.7	1870.6
60°	1594.9	1671.5	1755.5	1835.7	1909.5	1976.9	2043.9	2101.9	2151.5	2192.6	2225.8
57.5°	1822.5	1921.7	2019.9	2119.5	2213.6	2301.7	2384.1	2456.8	2518.2	2568.6	2610.9
55°	2068.3	2192.4	2306.3	2431.9	2553.3	2663.8	2761.1	2846.6	2920.6	2982.5	3035.1
52.5°	2338.6	2489.3	2637.3	2780.2	2918.1	3046.3	3162.8	3262.4	3351.0	3426.9	3487.4
50°	2634.3	2806.8	2978.3	3137.3	3295.7	3443.5	3577.0	3692.6	3795.6	3884.8	3955.1
47.5°	2943.7	3140.0	3331.5	3513.6	3688.8	3853.0	3997.6	4129.3	4257.9	4362.7	4445.6
45°	3264.9	3485.1	3696.4	3904.5	4097.5	4281.6	4459.9	4624.0	4755.9	4871.3	4968.3
42.5°	3590.0	3835.7	4072.3	4299.3	4511.5	4724.3	4925.0	5104.3	5254.7	5386.0	5496.3
40°	3919.4	4188.3	4449.0	4696.5	4939.1	5171.2	5388.2	5577.3	5746.9	5902.9	6032.8
37.5°	4247.1	4543.0	4831.7	5109.0	5376.2	5627.5	5862.0	6075.7	6267.2	6444.8	6589.0
35°	4576.2	4900.8	5216.9	5522.1	5813.9	6091.3	6348.1	6591.2	6816.8	6996.7	7144.3
32.5°	4904.1	5253.0	5597.1	5933.1	6252.4	6551.5	6829.7	7098.4	7330.5	7528.2	7697.9
30°	5221.3	5599.4	5974.0	6338.3	6683.3	7007.4	7315.4	7599.5	7849.1	8065.4	8255.7
27.5°	5532.6	5938.8	6340.8	6730.0	7102.9	7455.1	7791.3	8099.3	8371.7	8606.8	8807.4
25°	5826.9	6263.4	6691.9	7104.5	7502.9	7891.5	8254.4	8590.6	8881.5	9139.6	9345.7
22.5°	6108.0	6573.6	7023.8	7457.8	7884.0	8302.8	8700.1	9051.2	9359.5	9629.3	9857.4
20°	6369.9	6868.8	7329.4	7788.5	8237.4	8684.5	9111.1	9481.5	9807.8	10094.9	10346.4
17.5°	6614.7	7126.5	7611.5	8100.2	8573.3	9042.4	9475.8	9872.9	10224.8	10529.7	10793.2
15°	6822.0	7338.8	7868.5	8390.3	8889.2	9364.2	9797.2	10211.9	10602.7	10932.5	11199.6
12.5°	6989.8	7527.2	8079.8	8633.8	9161.4	9635.8	10089.1	10509.8	10920.3	11290.7	11536.3
10°	7132.8	7686.2	8256.7	8821.6	9356.3	9858.2	10351.1	10795.9	11199.3	11531.0	11805.2
7.5°	7256.5	7826.5	8405.9	8971.7	9504.7	10023.3	10530.7	11003.1	11410.2	11722.8	11967.3
5°	7347.6	7931.3	8521.8	9092.9	9633.3	10153.5	10663.3	11129.7	11527.2	11845.2	12111.9
2.5°	7412.9	8002.0	8596.8	9168.7	9721.0	10242.6	10765.1	11236.8	11621.6	11913.0	12168.4
0°	7454.7	8044.7	8644.1	9229.2	9771.6	10275.8	10837.2	11279.6	11679.3	11969.5	12235.9
-2.5°	7412.9	8002.0	8596.8	9168.7	9721.0	10242.6	10765.1	11236.8	11621.6	11913.0	12168.4
-5°	7347.6	7931.3	8521.8	9092.9	9633.3	10153.5	10663.3	11129.7	11527.2	11845.2	12111.9
-7.5°	7256.5	7826.5	8405.9	8971.7	9504.7	10023.3	10530.7	11003.1	11410.2	11722.8	11967.3
-10°	7132.8	7686.2	8256.7	8821.6	9356.3	9858.2	10351.1	10795.9	11199.3	11531.0	11805.2
-12.5°	6989.8	7527.2	8079.8	8633.8	9161.4	9635.8	10089.1	10509.8	10920.3	11290.7	11536.3
-15°	6822.0	7338.8	7868.5	8390.3	8889.2	9364.2	9797.2	10211.9	10602.7	10932.5	11199.6
-17.5°	6614.7	7126.5	7611.5	8100.2	8573.3	9042.4	9475.8	9872.9	10224.8	10529.7	10793.2
-20°	6369.9	6868.8	7329.4	7788.5	8237.4	8684.5	9111.1	9481.5	9807.8	10094.9	10346.4



REPORT NUMBER: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5C-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6108.0	6573.6	7023.8	7457.8	7884.0	8302.8	8700.1	9051.2	9359.5	9629.3	9857.4
-25°	5826.9	6263.4	6691.9	7104.5	7502.9	7891.5	8254.4	8590.6	8881.5	9139.6	9345.7
-27.5°	5532.6	5938.8	6340.8	6730.0	7102.9	7455.1	7791.3	8099.3	8371.7	8606.8	8807.4
-30°	5221.3	5599.4	5974.0	6338.3	6683.3	7007.4	7315.4	7599.5	7849.1	8065.4	8255.7
-32.5°	4904.1	5253.0	5597.1	5933.1	6252.4	6551.5	6829.7	7098.4	7330.5	7528.2	7697.9
-35°	4576.2	4900.8	5216.9	5522.1	5813.9	6091.3	6348.1	6591.2	6816.8	6996.7	7144.3
-37.5°	4247.1	4543.0	4831.7	5109.0	5376.2	5627.5	5862.0	6075.7	6267.2	6444.8	6589.0
-40°	3919.4	4188.3	4449.0	4696.5	4939.1	5171.2	5388.2	5577.3	5746.9	5902.9	6032.8
-42.5°	3590.0	3835.7	4072.3	4299.3	4511.5	4724.3	4925.0	5104.3	5254.7	5386.0	5496.3
-45°	3264.9	3485.1	3696.4	3904.5	4097.5	4281.6	4459.9	4624.0	4755.9	4871.3	4968.3
-47.5°	2943.7	3140.0	3331.5	3513.6	3688.8	3853.0	3997.6	4129.3	4257.9	4362.7	4445.6
-50°	2634.3	2806.8	2978.3	3137.3	3295.7	3443.5	3577.0	3692.6	3795.6	3884.8	3955.1
-52.5°	2338.6	2489.3	2637.3	2780.2	2918.1	3046.3	3162.8	3262.4	3351.0	3426.9	3487.4
-55°	2068.3	2192.4	2306.3	2431.9	2553.3	2663.8	2761.1	2846.6	2920.6	2982.5	3035.1
-57.5°	1822.5	1921.7	2019.9	2119.5	2213.6	2301.7	2384.1	2456.8	2518.2	2568.6	2610.9
-60°	1594.9	1671.5	1755.5	1835.7	1909.5	1976.9	2043.9	2101.9	2151.5	2192.6	2225.8
-62.5°	1383.1	1450.5	1513.1	1573.9	1633.4	1692.0	1737.0	1778.0	1814.4	1845.7	1870.6
-65°	1179.4	1234.4	1283.1	1327.9	1368.9	1412.1	1447.5	1477.2	1501.1	1520.9	1536.8
-67.5°	985.6	1028.6	1066.2	1098.2	1129.9	1159.6	1184.1	1204.1	1219.5	1232.7	1242.7
-70°	813.6	845.6	872.6	898.4	924.6	945.7	961.5	973.1	980.4	985.2	988.5
-72.5°	660.8	690.7	715.1	738.0	757.3	771.3	781.4	789.0	794.1	789.0	779.8
-75°	520.0	548.8	576.4	600.0	619.6	628.7	633.1	636.2	637.9	620.9	598.5
-77.5°	398.6	427.9	453.7	477.2	498.6	502.7	502.1	501.0	499.2	475.5	446.7
-80°	280.1	303.4	325.4	347.2	368.7	371.2	368.7	364.3	358.0	334.7	308.3
-82.5°	171.6	185.4	198.5	211.5	224.4	227.7	228.7	228.3	226.5	208.7	189.1
-85°	79.5	85.1	90.3	95.3	100.1	104.6	108.9	112.9	116.5	106.4	95.3
-87.5°	15.6	16.0	16.5	16.9	17.2	17.6	17.9	18.1	18.4	17.4	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: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-722-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°	15.3	14.2	14.3	14.3	14.3	14.2	15.3	16.4	17.4	18.4	18.1
85°	83.4	71.1	66.5	61.8	66.5	71.1	83.4	95.3	106.4	116.5	112.9
82.5°	168.5	147.0	140.2	133.2	140.2	147.0	168.5	189.1	208.7	226.5	228.3
80°	280.5	251.4	240.0	228.4	240.0	251.4	280.5	308.3	334.7	358.0	364.3
77.5°	416.3	384.4	370.8	356.8	370.8	384.4	416.3	446.7	475.5	499.2	501.0
75°	575.0	550.0	534.8	518.5	534.8	550.0	575.0	598.5	620.9	637.9	636.2
72.5°	769.4	757.2	746.1	732.6	746.1	757.2	769.4	779.8	789.0	794.1	789.0
70°	989.7	988.1	990.1	989.5	990.1	988.1	989.7	988.5	985.2	980.4	973.1
67.5°	1247.9	1248.2	1253.5	1255.9	1253.5	1248.2	1247.9	1242.7	1232.7	1219.5	1204.1
65°	1546.6	1550.2	1548.9	1541.4	1548.9	1550.2	1546.6	1536.8	1520.9	1501.1	1477.2
62.5°	1888.3	1898.6	1904.2	1902.9	1904.2	1898.6	1888.3	1870.6	1845.7	1814.4	1778.0
60°	2250.6	2266.7	2274.8	2274.0	2274.8	2266.7	2250.6	2225.8	2192.6	2151.5	2101.9
57.5°	2642.5	2663.1	2668.0	2659.4	2668.0	2663.1	2642.5	2610.9	2568.6	2518.2	2456.8
55°	3074.8	3101.2	3111.4	3106.5	3111.4	3101.2	3074.8	3035.1	2982.5	2920.6	2846.6
52.5°	3531.9	3560.4	3570.5	3563.2	3570.5	3560.4	3531.9	3487.4	3426.9	3351.0	3262.4
50°	4006.6	4041.2	4055.1	4048.5	4055.1	4041.2	4006.6	3955.1	3884.8	3795.6	3692.6
47.5°	4510.5	4556.6	4574.5	4562.3	4574.5	4556.6	4510.5	4445.6	4362.7	4257.9	4129.3
45°	5040.8	5088.5	5107.0	5095.1	5107.0	5088.5	5040.8	4968.3	4871.3	4755.9	4624.0
42.5°	5580.5	5642.5	5668.7	5647.0	5668.7	5642.5	5580.5	5496.3	5386.0	5254.7	5104.3
40°	6129.8	6197.1	6228.1	6213.1	6228.1	6197.1	6129.8	6032.8	5902.9	5746.9	5577.3
37.5°	6693.2	6760.2	6793.0	6793.5	6793.0	6760.2	6693.2	6589.0	6444.8	6267.2	6075.7
35°	7258.6	7339.7	7385.6	7383.4	7385.6	7339.7	7258.6	7144.3	6996.7	6816.8	6591.2
32.5°	7832.0	7919.8	7966.7	7973.3	7966.7	7919.8	7832.0	7697.9	7528.2	7330.5	7098.4
30°	8404.4	8501.0	8555.2	8577.5	8555.2	8501.0	8404.4	8255.7	8065.4	7849.1	7599.5
27.5°	8959.5	9078.3	9160.2	9167.4	9160.2	9078.3	8959.5	8807.4	8606.8	8371.7	8099.3
25°	9497.1	9618.1	9702.2	9719.2	9702.2	9618.1	9497.1	9345.7	9139.6	8881.5	8590.6
22.5°	10027.0	10153.4	10231.0	10261.6	10231.0	10153.4	10027.0	9857.4	9629.3	9359.5	9051.2
20°	10532.8	10669.8	10752.1	10784.9	10752.1	10669.8	10532.8	10346.4	10094.9	9807.8	9481.5
17.5°	10990.4	11135.2	11236.8	11265.4	11236.8	11135.2	10990.4	10793.2	10529.7	10224.8	9872.9
15°	11393.1	11530.4	11626.9	11665.0	11626.9	11530.4	11393.1	11199.6	10932.5	10602.7	10211.9
12.5°	11720.9	11843.7	11919.3	11955.2	11919.3	11843.7	11720.9	11536.3	11290.7	10920.3	10509.8
10°	11977.0	12100.2	12172.4	12221.6	12172.4	12100.2	11977.0	11805.2	11531.0	11199.3	10795.9
7.5°	12199.2	12325.5	12413.8	12483.3	12413.8	12325.5	12199.2	11967.3	11722.8	11410.2	11003.1
5°	12322.0	12532.8	12564.5	12611.7	12564.5	12532.8	12322.0	12111.9	11845.2	11527.2	11129.7
2.5°	12415.5	12565.0	12654.9	12645.0	12654.9	12565.0	12415.5	12168.4	11913.0	11621.6	11236.8
0°	12483.3	12616.5	12649.8	12692.6	12649.8	12616.5	12483.3	12235.9	11969.5	11679.3	11279.6
-2.5°	12415.5	12565.0	12654.9	12645.0	12654.9	12565.0	12415.5	12168.4	11913.0	11621.6	11236.8
-5°	12322.0	12532.8	12564.5	12611.7	12564.5	12532.8	12322.0	12111.9	11845.2	11527.2	11129.7
-7.5°	12199.2	12325.5	12413.8	12483.3	12413.8	12325.5	12199.2	11967.3	11722.8	11410.2	11003.1
-10°	11977.0	12100.2	12172.4	12221.6	12172.4	12100.2	11977.0	11805.2	11531.0	11199.3	10795.9
-12.5°	11720.9	11843.7	11919.3	11955.2	11919.3	11843.7	11720.9	11536.3	11290.7	10920.3	10509.8
-15°	11393.1	11530.4	11626.9	11665.0	11626.9	11530.4	11393.1	11199.6	10932.5	10602.7	10211.9
-17.5°	10990.4	11135.2	11236.8	11265.4	11236.8	11135.2	10990.4	10793.2	10529.7	10224.8	9872.9
-20°	10532.8	10669.8	10752.1	10784.9	10752.1	10669.8	10532.8	10346.4	10094.9	9807.8	9481.5



REPORT NUMBER: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-722-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°	10027.0	10153.4	10231.0	10261.6	10231.0	10153.4	10027.0	9857.4	9629.3	9359.5	9051.2
-25°	9497.1	9618.1	9702.2	9719.2	9702.2	9618.1	9497.1	9345.7	9139.6	8881.5	8590.6
-27.5°	8959.5	9078.3	9160.2	9167.4	9160.2	9078.3	8959.5	8807.4	8606.8	8371.7	8099.3
-30°	8404.4	8501.0	8555.2	8577.5	8555.2	8501.0	8404.4	8255.7	8065.4	7849.1	7599.5
-32.5°	7832.0	7919.8	7966.7	7973.3	7966.7	7919.8	7832.0	7697.9	7528.2	7330.5	7098.4
-35°	7258.6	7339.7	7385.6	7383.4	7385.6	7339.7	7258.6	7144.3	6996.7	6816.8	6591.2
-37.5°	6693.2	6760.2	6793.0	6793.5	6793.0	6760.2	6693.2	6589.0	6444.8	6267.2	6075.7
-40°	6129.8	6197.1	6228.1	6213.1	6228.1	6197.1	6129.8	6032.8	5902.9	5746.9	5577.3
-42.5°	5580.5	5642.5	5668.7	5647.0	5668.7	5642.5	5580.5	5496.3	5386.0	5254.7	5104.3
-45°	5040.8	5088.5	5107.0	5095.1	5107.0	5088.5	5040.8	4968.3	4871.3	4755.9	4624.0
-47.5°	4510.5	4556.6	4574.5	4562.3	4574.5	4556.6	4510.5	4445.6	4362.7	4257.9	4129.3
-50°	4006.6	4041.2	4055.1	4048.5	4055.1	4041.2	4006.6	3955.1	3884.8	3795.6	3692.6
-52.5°	3531.9	3560.4	3570.5	3563.2	3570.5	3560.4	3531.9	3487.4	3426.9	3351.0	3262.4
-55°	3074.8	3101.2	3111.4	3106.5	3111.4	3101.2	3074.8	3035.1	2982.5	2920.6	2846.6
-57.5°	2642.5	2663.1	2668.0	2659.4	2668.0	2663.1	2642.5	2610.9	2568.6	2518.2	2456.8
-60°	2250.6	2266.7	2274.8	2274.0	2274.8	2266.7	2250.6	2225.8	2192.6	2151.5	2101.9
-62.5°	1888.3	1898.6	1904.2	1902.9	1904.2	1898.6	1888.3	1870.6	1845.7	1814.4	1778.0
-65°	1546.6	1550.2	1548.9	1541.4	1548.9	1550.2	1546.6	1536.8	1520.9	1501.1	1477.2
-67.5°	1247.9	1248.2	1253.5	1255.9	1253.5	1248.2	1247.9	1242.7	1232.7	1219.5	1204.1
-70°	989.7	988.1	990.1	989.5	990.1	988.1	989.7	988.5	985.2	980.4	973.1
-72.5°	769.4	757.2	746.1	732.6	746.1	757.2	769.4	779.8	789.0	794.1	789.0
-75°	575.0	550.0	534.8	518.5	534.8	550.0	575.0	598.5	620.9	637.9	636.2
-77.5°	416.3	384.4	370.8	356.8	370.8	384.4	416.3	446.7	475.5	499.2	501.0
-80°	280.5	251.4	240.0	228.4	240.0	251.4	280.5	308.3	334.7	358.0	364.3
-82.5°	168.5	147.0	140.2	133.2	140.2	147.0	168.5	189.1	208.7	226.5	228.3
-85°	83.4	71.1	66.5	61.8	66.5	71.1	83.4	95.3	106.4	116.5	112.9
-87.5°	15.3	14.2	14.3	14.3	14.3	14.2	15.3	16.4	17.4	18.4	18.1
-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: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5C-722-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°	17.9	17.6	17.2	16.9	16.5	16.0	15.6	15.1	14.6	14.0	13.4
85°	108.9	104.6	100.1	95.3	90.3	85.1	79.5	69.7	60.5	52.1	44.8
82.5°	228.7	227.7	224.4	211.5	198.5	185.4	171.6	151.1	131.0	111.4	94.3
80°	368.7	371.2	368.7	347.2	325.4	303.4	280.1	250.1	219.8	191.0	169.3
77.5°	502.1	502.7	498.6	477.2	453.7	427.9	398.6	362.5	326.4	289.9	262.0
75°	633.1	628.7	619.6	600.0	576.4	548.8	520.0	488.3	451.3	408.7	372.3
72.5°	781.4	771.3	757.3	738.0	715.1	690.7	660.8	625.8	587.0	544.5	506.1
70°	961.5	945.7	924.6	898.4	872.6	845.6	813.6	775.0	729.9	683.0	640.1
67.5°	1184.1	1159.6	1129.9	1098.2	1066.2	1028.6	985.6	938.6	892.0	839.9	781.1
65°	1447.5	1412.1	1368.9	1327.9	1283.1	1234.4	1179.4	1124.9	1067.9	1005.4	930.8
62.5°	1737.0	1692.0	1633.4	1573.9	1513.1	1450.5	1383.1	1316.1	1248.0	1174.4	1090.4
60°	2043.9	1976.9	1909.5	1835.7	1755.5	1671.5	1594.9	1513.4	1427.3	1343.9	1251.8
57.5°	2384.1	2301.7	2213.6	2119.5	2019.9	1921.7	1822.5	1720.0	1622.7	1521.0	1416.8
55°	2761.1	2663.8	2553.3	2431.9	2306.3	2192.4	2068.3	1944.1	1826.8	1703.5	1588.6
52.5°	3162.8	3046.3	2918.1	2780.2	2637.3	2489.3	2338.6	2195.9	2043.2	1903.6	1764.8
50°	3577.0	3443.5	3295.7	3137.3	2978.3	2806.8	2634.3	2462.8	2289.9	2118.7	1952.4
47.5°	3997.6	3853.0	3688.8	3513.6	3331.5	3140.0	2943.7	2737.4	2546.0	2347.5	2158.6
45°	4459.9	4281.6	4097.5	3904.5	3696.4	3485.1	3264.9	3039.0	2808.8	2590.5	2368.9
42.5°	4925.0	4724.3	4511.5	4299.3	4072.3	3835.7	3590.0	3341.1	3088.1	2836.3	2594.2
40°	5388.2	5171.2	4939.1	4696.5	4449.0	4188.3	3919.4	3642.5	3367.8	3090.8	2816.9
37.5°	5862.0	5627.5	5376.2	5109.0	4831.7	4543.0	4247.1	3947.3	3644.4	3346.3	3049.2
35°	6348.1	6091.3	5813.9	5522.1	5216.9	4900.8	4576.2	4247.9	3922.1	3599.7	3277.8
32.5°	6829.7	6551.5	6252.4	5933.1	5597.1	5253.0	4904.1	4549.6	4192.9	3848.7	3505.8
30°	7315.4	7007.4	6683.3	6338.3	5974.0	5599.4	5221.3	4845.8	4465.7	4086.9	3724.2
27.5°	7791.3	7455.1	7102.9	6730.0	6340.8	5938.8	5532.6	5131.8	4726.3	4323.7	3932.7
25°	8254.4	7891.5	7502.9	7104.5	6691.9	6263.4	5826.9	5402.8	4979.4	4548.5	4119.7
22.5°	8700.1	8302.8	7884.0	7457.8	7023.8	6573.6	6108.0	5651.0	5212.9	4750.1	4302.0
20°	9111.1	8684.5	8237.4	7788.5	7329.4	6868.8	6369.9	5883.8	5412.5	4937.4	4467.2
17.5°	9475.8	9042.4	8573.3	8100.2	7611.5	7126.5	6614.7	6095.6	5596.3	5103.8	4612.7
15°	9797.2	9364.2	8889.2	8390.3	7868.5	7338.8	6822.0	6282.9	5763.7	5250.9	4747.2
12.5°	10089.1	9635.8	9161.4	8633.8	8079.8	7527.2	6989.8	6446.8	5912.7	5385.5	4868.2
10°	10351.1	9858.2	9356.3	8821.6	8256.7	7686.2	7132.8	6584.8	6039.4	5500.7	4967.9
7.5°	10530.7	10023.3	9504.7	8971.7	8405.9	7826.5	7256.5	6695.5	6138.2	5592.5	5045.7
5°	10663.3	10153.5	9633.3	9092.9	8521.8	7931.3	7347.6	6775.9	6208.6	5659.7	5101.1
2.5°	10765.1	10242.6	9721.0	9168.7	8596.8	8002.0	7412.9	6836.3	6264.4	5708.9	5150.1
0°	10837.2	10275.8	9771.6	9229.2	8644.1	8044.7	7454.7	6874.4	6298.7	5732.6	5176.0
-2.5°	10765.1	10242.6	9721.0	9168.7	8596.8	8002.0	7412.9	6836.3	6264.4	5708.9	5150.1
-5°	10663.3	10153.5	9633.3	9092.9	8521.8	7931.3	7347.6	6775.9	6208.6	5659.7	5101.1
-7.5°	10530.7	10023.3	9504.7	8971.7	8405.9	7826.5	7256.5	6695.5	6138.2	5592.5	5045.7
-10°	10351.1	9858.2	9356.3	8821.6	8256.7	7686.2	7132.8	6584.8	6039.4	5500.7	4967.9
-12.5°	10089.1	9635.8	9161.4	8633.8	8079.8	7527.2	6989.8	6446.8	5912.7	5385.5	4868.2
-15°	9797.2	9364.2	8889.2	8390.3	7868.5	7338.8	6822.0	6282.9	5763.7	5250.9	4747.2
-17.5°	9475.8	9042.4	8573.3	8100.2	7611.5	7126.5	6614.7	6095.6	5596.3	5103.8	4612.7
-20°	9111.1	8684.5	8237.4	7788.5	7329.4	6868.8	6369.9	5883.8	5412.5	4937.4	4467.2



REPORT NUMBER: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	8700.1	8302.8	7884.0	7457.8	7023.8	6573.6	6108.0	5651.0	5212.9	4750.1	4302.0
-25°	8254.4	7891.5	7502.9	7104.5	6691.9	6263.4	5826.9	5402.8	4979.4	4548.5	4119.7
-27.5°	7791.3	7455.1	7102.9	6730.0	6340.8	5938.8	5532.6	5131.8	4726.3	4323.7	3932.7
-30°	7315.4	7007.4	6683.3	6338.3	5974.0	5599.4	5221.3	4845.8	4465.7	4086.9	3724.2
-32.5°	6829.7	6551.5	6252.4	5933.1	5597.1	5253.0	4904.1	4549.6	4192.9	3848.7	3505.8
-35°	6348.1	6091.3	5813.9	5522.1	5216.9	4900.8	4576.2	4247.9	3922.1	3599.7	3277.8
-37.5°	5862.0	5627.5	5376.2	5109.0	4831.7	4543.0	4247.1	3947.3	3644.4	3346.3	3049.2
-40°	5388.2	5171.2	4939.1	4696.5	4449.0	4188.3	3919.4	3642.5	3367.8	3090.8	2816.9
-42.5°	4925.0	4724.3	4511.5	4299.3	4072.3	3835.7	3590.0	3341.1	3088.1	2836.3	2594.2
-45°	4459.9	4281.6	4097.5	3904.5	3696.4	3485.1	3264.9	3039.0	2808.8	2590.5	2368.9
-47.5°	3997.6	3853.0	3688.8	3513.6	3331.5	3140.0	2943.7	2737.4	2546.0	2347.5	2158.6
-50°	3577.0	3443.5	3295.7	3137.3	2978.3	2806.8	2634.3	2462.8	2289.9	2118.7	1952.4
-52.5°	3162.8	3046.3	2918.1	2780.2	2637.3	2489.3	2338.6	2195.9	2043.2	1903.6	1764.8
-55°	2761.1	2663.8	2553.3	2431.9	2306.3	2192.4	2068.3	1944.1	1826.8	1703.5	1588.6
-57.5°	2384.1	2301.7	2213.6	2119.5	2019.9	1921.7	1822.5	1720.0	1622.7	1521.0	1416.8
-60°	2043.9	1976.9	1909.5	1835.7	1755.5	1671.5	1594.9	1513.4	1427.3	1343.9	1251.8
-62.5°	1737.0	1692.0	1633.4	1573.9	1513.1	1450.5	1383.1	1316.1	1248.0	1174.4	1090.4
-65°	1447.5	1412.1	1368.9	1327.9	1283.1	1234.4	1179.4	1124.9	1067.9	1005.4	930.8
-67.5°	1184.1	1159.6	1129.9	1098.2	1066.2	1028.6	985.6	938.6	892.0	839.9	781.1
-70°	961.5	945.7	924.6	898.4	872.6	845.6	813.6	775.0	729.9	683.0	640.1
-72.5°	781.4	771.3	757.3	738.0	715.1	690.7	660.8	625.8	587.0	544.5	506.1
-75°	633.1	628.7	619.6	600.0	576.4	548.8	520.0	488.3	451.3	408.7	372.3
-77.5°	502.1	502.7	498.6	477.2	453.7	427.9	398.6	362.5	326.4	289.9	262.0
-80°	368.7	371.2	368.7	347.2	325.4	303.4	280.1	250.1	219.8	191.0	169.3
-82.5°	228.7	227.7	224.4	211.5	198.5	185.4	171.6	151.1	131.0	111.4	94.3
-85°	108.9	104.6	100.1	95.3	90.3	85.1	79.5	69.7	60.5	52.1	44.8
-87.5°	17.9	17.6	17.2	16.9	16.5	16.0	15.6	15.1	14.6	14.0	13.4
-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: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5C-722-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°	13.7	13.8	13.8	13.6	12.1	10.7	9.3	8.0	7.3	6.5	5.7
85°	45.0	43.9	41.5	37.7	29.6	21.3	18.6	16.0	14.5	13.0	11.4
82.5°	94.0	94.9	94.8	92.0	81.2	69.8	57.9	45.5	33.7	21.4	17.1
80°	169.6	167.8	163.8	156.0	138.2	118.2	103.0	87.4	72.1	56.1	39.4
77.5°	256.4	249.1	240.2	230.0	211.1	189.0	163.5	134.6	110.2	90.6	70.1
75°	353.5	341.8	329.3	312.3	288.1	260.3	232.3	198.7	161.3	126.1	100.5
72.5°	475.2	447.0	421.8	398.0	371.7	340.7	305.0	261.7	216.3	173.4	133.2
70°	598.4	556.1	518.4	486.0	454.3	421.9	382.6	329.2	270.2	219.7	172.4
67.5°	723.6	673.6	623.0	574.6	534.6	496.4	458.5	396.4	328.8	265.0	210.7
65°	861.8	795.0	730.7	670.9	616.7	568.9	524.5	459.3	385.6	313.9	247.9
62.5°	1004.1	918.8	842.7	766.4	698.9	640.9	587.5	515.6	440.0	361.2	286.8
60°	1153.7	1056.6	955.5	866.3	783.6	710.1	645.5	571.1	490.8	406.8	325.5
57.5°	1311.2	1197.1	1083.5	970.8	871.4	783.3	702.0	623.7	540.8	451.6	361.5
55°	1470.8	1347.9	1213.5	1086.5	964.6	859.8	761.8	674.2	589.0	495.8	392.6
52.5°	1630.6	1495.6	1351.3	1204.6	1068.1	937.0	827.5	723.4	633.5	538.9	424.9
50°	1797.7	1642.9	1488.4	1329.9	1171.2	1027.5	891.0	779.8	676.6	579.8	455.6
47.5°	1971.7	1799.2	1627.2	1454.0	1283.8	1114.0	965.1	835.1	718.3	616.9	484.1
45°	2162.4	1960.6	1770.2	1583.0	1390.5	1207.6	1040.1	888.0	765.5	645.7	510.4
42.5°	2352.9	2131.1	1918.3	1710.0	1502.2	1300.5	1111.2	950.2	810.7	673.4	534.6
40°	2555.6	2302.1	2066.2	1840.2	1611.3	1388.9	1190.0	1010.8	853.0	702.1	557.5
37.5°	2752.7	2477.3	2218.1	1964.5	1718.1	1484.4	1265.7	1067.6	893.2	734.3	579.3
35°	2961.2	2653.5	2358.7	2089.7	1828.1	1575.0	1336.6	1124.9	939.4	765.7	599.7
32.5°	3162.8	2825.7	2509.5	2213.1	1933.1	1660.3	1409.6	1185.6	983.8	796.1	618.9
30°	3360.8	2998.5	2654.1	2329.8	2034.9	1749.8	1482.8	1242.4	1026.3	825.6	638.0
27.5°	3543.4	3158.6	2792.6	2450.5	2134.9	1834.7	1551.9	1295.0	1066.6	855.8	660.3
25°	3713.4	3312.6	2929.2	2566.6	2227.7	1915.2	1615.5	1343.7	1107.6	887.4	681.0
22.5°	3873.0	3455.6	3053.0	2673.6	2313.6	1989.0	1677.6	1395.5	1146.5	916.4	699.9
20°	4018.1	3584.4	3163.8	2770.5	2397.3	2059.4	1737.2	1442.0	1181.2	942.7	717.0
17.5°	4148.7	3702.1	3269.6	2861.1	2475.2	2121.9	1790.3	1483.0	1211.7	966.2	731.9
15°	4270.0	3809.1	3363.1	2940.2	2542.6	2176.4	1836.4	1518.4	1237.8	986.6	746.3
12.5°	4374.3	3900.9	3442.5	3007.4	2599.4	2222.5	1875.4	1548.0	1259.5	1005.1	759.7
10°	4460.1	3976.7	3507.3	3062.4	2645.3	2260.0	1907.1	1572.9	1279.9	1021.1	770.1
7.5°	4526.9	4036.1	3557.2	3104.7	2681.8	2291.4	1934.1	1594.5	1296.3	1033.3	777.3
5°	4577.5	4082.5	3600.6	3140.2	2715.2	2316.7	1953.7	1609.9	1308.1	1041.8	781.4
2.5°	4622.5	4117.3	3634.8	3163.3	2738.0	2333.2	1965.6	1619.2	1315.4	1046.2	782.4
0°	4647.9	4134.1	3653.6	3173.1	2749.7	2340.6	1969.5	1622.3	1317.8	1046.6	780.2
-2.5°	4622.5	4117.3	3634.8	3163.3	2738.0	2333.2	1965.6	1619.2	1315.4	1046.2	782.4
-5°	4577.5	4082.5	3600.6	3140.2	2715.2	2316.7	1953.7	1609.9	1308.1	1041.8	781.4
-7.5°	4526.9	4036.1	3557.2	3104.7	2681.8	2291.4	1934.1	1594.5	1296.3	1033.3	777.3
-10°	4460.1	3976.7	3507.3	3062.4	2645.3	2260.0	1907.1	1572.9	1279.9	1021.1	770.1
-12.5°	4374.3	3900.9	3442.5	3007.4	2599.4	2222.5	1875.4	1548.0	1259.5	1005.1	759.7
-15°	4270.0	3809.1	3363.1	2940.2	2542.6	2176.4	1836.4	1518.4	1237.8	986.6	746.3
-17.5°	4148.7	3702.1	3269.6	2861.1	2475.2	2121.9	1790.3	1483.0	1211.7	966.2	731.9
-20°	4018.1	3584.4	3163.8	2770.5	2397.3	2059.4	1737.2	1442.0	1181.2	942.7	717.0



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CATALOG NUMBER: GFLD-SA5C-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3873.0	3455.6	3053.0	2673.6	2313.6	1989.0	1677.6	1395.5	1146.5	916.4	699.9
-25°	3713.4	3312.6	2929.2	2566.6	2227.7	1915.2	1615.5	1343.7	1107.6	887.4	681.0
-27.5°	3543.4	3158.6	2792.6	2450.5	2134.9	1834.7	1551.9	1295.0	1066.6	855.8	660.3
-30°	3360.8	2998.5	2654.1	2329.8	2034.9	1749.8	1482.8	1242.4	1026.3	825.6	638.0
-32.5°	3162.8	2825.7	2509.5	2213.1	1933.1	1660.3	1409.6	1185.6	983.8	796.1	618.9
-35°	2961.2	2653.5	2358.7	2089.7	1828.1	1575.0	1336.6	1124.9	939.4	765.7	599.7
-37.5°	2752.7	2477.3	2218.1	1964.5	1718.1	1484.4	1265.7	1067.6	893.2	734.3	579.3
-40°	2555.6	2302.1	2066.2	1840.2	1611.3	1388.9	1190.0	1010.8	853.0	702.1	557.5
-42.5°	2352.9	2131.1	1918.3	1710.0	1502.2	1300.5	1111.2	950.2	810.7	673.4	534.6
-45°	2162.4	1960.6	1770.2	1583.0	1390.5	1207.6	1040.1	888.0	765.5	645.7	510.4
-47.5°	1971.7	1799.2	1627.2	1454.0	1283.8	1114.0	965.1	835.1	718.3	616.9	484.1
-50°	1797.7	1642.9	1488.4	1329.9	1171.2	1027.5	891.0	779.8	676.6	579.8	455.6
-52.5°	1630.6	1495.6	1351.3	1204.6	1068.1	937.0	827.5	723.4	633.5	538.9	424.9
-55°	1470.8	1347.9	1213.5	1086.5	964.6	859.8	761.8	674.2	589.0	495.8	392.6
-57.5°	1311.2	1197.1	1083.5	970.8	871.4	783.3	702.0	623.7	540.8	451.6	361.5
-60°	1153.7	1056.6	955.5	866.3	783.6	710.1	645.5	571.1	490.8	406.8	325.5
-62.5°	1004.1	918.8	842.7	766.4	698.9	640.9	587.5	515.6	440.0	361.2	286.8
-65°	861.8	795.0	730.7	670.9	616.7	568.9	524.5	459.3	385.6	313.9	247.9
-67.5°	723.6	673.6	623.0	574.6	534.6	496.4	458.5	396.4	328.8	265.0	210.7
-70°	598.4	556.1	518.4	486.0	454.3	421.9	382.6	329.2	270.2	219.7	172.4
-72.5°	475.2	447.0	421.8	398.0	371.7	340.7	305.0	261.7	216.3	173.4	133.2
-75°	353.5	341.8	329.3	312.3	288.1	260.3	232.3	198.7	161.3	126.1	100.5
-77.5°	256.4	249.1	240.2	230.0	211.1	189.0	163.5	134.6	110.2	90.6	70.1
-80°	169.6	167.8	163.8	156.0	138.2	118.2	103.0	87.4	72.1	56.1	39.4
-82.5°	94.0	94.9	94.8	92.0	81.2	69.8	57.9	45.5	33.7	21.4	17.1
-85°	45.0	43.9	41.5	37.7	29.6	21.3	18.6	16.0	14.5	13.0	11.4
-87.5°	13.7	13.8	13.8	13.6	12.1	10.7	9.3	8.0	7.3	6.5	5.7
-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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CATALOG NUMBER: GFLD-SA5C-722-U-VWR-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°	4.9	4.1	3.3	2.5	1.7	0.7	0.0
85°	9.8	8.2	6.6	5.0	3.3	1.4	0.0
82.5°	14.7	12.3	9.9	7.4	4.9	2.2	0.0
80°	22.1	16.4	13.1	9.9	6.6	2.9	0.0
77.5°	48.3	25.7	16.4	12.3	8.2	3.6	0.0
75°	73.8	44.5	21.3	14.7	9.7	4.3	0.0
72.5°	98.5	62.7	34.0	17.1	11.3	5.0	0.0
70°	123.2	80.3	46.3	20.5	12.8	5.6	0.0
67.5°	152.9	97.1	58.1	28.1	14.3	6.3	0.0
65°	181.2	116.0	69.4	35.4	15.7	6.9	0.0
62.5°	208.1	136.7	80.1	42.3	17.0	7.6	0.0
60°	233.5	156.2	90.1	48.9	18.4	8.2	0.0
57.5°	260.2	174.5	103.5	55.1	22.1	8.7	0.0
55°	285.5	191.6	116.2	60.9	25.7	9.3	0.0
52.5°	308.9	207.8	128.1	66.3	29.2	9.8	0.0
50°	330.4	225.0	139.0	71.1	32.5	10.3	0.0
47.5°	350.5	240.7	148.9	76.2	35.7	10.8	0.0
45°	372.9	254.9	157.8	82.8	38.7	11.3	0.0
42.5°	393.4	267.5	165.8	88.8	41.6	11.7	0.0
40°	412.0	278.5	173.7	94.9	44.2	12.1	0.0
37.5°	428.6	287.9	181.6	101.0	46.7	12.5	0.0
35°	443.3	298.8	188.4	106.6	49.1	12.8	0.0
32.5°	456.9	309.7	194.1	111.8	51.2	13.1	0.0
30°	471.1	319.0	198.6	116.5	53.2	13.4	0.0
27.5°	483.7	326.7	205.4	120.8	55.0	13.6	0.0
25°	494.9	332.8	211.8	124.7	56.6	13.9	0.0
22.5°	504.5	338.9	217.4	128.1	57.9	14.0	0.0
20°	512.4	347.4	222.3	131.0	59.1	14.2	0.0
17.5°	522.2	354.3	226.3	133.5	60.1	14.3	0.0
15°	532.5	359.6	229.6	135.5	61.0	14.4	0.0
12.5°	540.9	363.5	232.1	137.1	61.6	14.5	0.0
10°	547.3	365.9	233.8	138.2	62.0	14.5	0.0
7.5°	551.6	366.8	234.8	138.8	62.2	14.5	0.0
5°	553.9	366.4	235.0	139.0	62.3	14.4	0.0
2.5°	554.0	364.7	234.4	138.7	62.1	14.4	0.0
0°	551.9	361.6	233.1	138.0	61.8	14.3	0.0
-2.5°	554.0	364.7	234.4	138.7	62.1	14.4	0.0
-5°	553.9	366.4	235.0	139.0	62.3	14.4	0.0
-7.5°	551.6	366.8	234.8	138.8	62.2	14.5	0.0
-10°	547.3	365.9	233.8	138.2	62.0	14.5	0.0
-12.5°	540.9	363.5	232.1	137.1	61.6	14.5	0.0
-15°	532.5	359.6	229.6	135.5	61.0	14.4	0.0
-17.5°	522.2	354.3	226.3	133.5	60.1	14.3	0.0
-20°	512.4	347.4	222.3	131.0	59.1	14.2	0.0

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REPORT NUMBER: P627611 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5C-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	504.5	338.9	217.4	128.1	57.9	14.0	0.0
-25°	494.9	332.8	211.8	124.7	56.6	13.9	0.0
-27.5°	483.7	326.7	205.4	120.8	55.0	13.6	0.0
-30°	471.1	319.0	198.6	116.5	53.2	13.4	0.0
-32.5°	456.9	309.7	194.1	111.8	51.2	13.1	0.0
-35°	443.3	298.8	188.4	106.6	49.1	12.8	0.0
-37.5°	428.6	287.9	181.6	101.0	46.7	12.5	0.0
-40°	412.0	278.5	173.7	94.9	44.2	12.1	0.0
-42.5°	393.4	267.5	165.8	88.8	41.6	11.7	0.0
-45°	372.9	254.9	157.8	82.8	38.7	11.3	0.0
-47.5°	350.5	240.7	148.9	76.2	35.7	10.8	0.0
-50°	330.4	225.0	139.0	71.1	32.5	10.3	0.0
-52.5°	308.9	207.8	128.1	66.3	29.2	9.8	0.0
-55°	285.5	191.6	116.2	60.9	25.7	9.3	0.0
-57.5°	260.2	174.5	103.5	55.1	22.1	8.7	0.0
-60°	233.5	156.2	90.1	48.9	18.4	8.2	0.0
-62.5°	208.1	136.7	80.1	42.3	17.0	7.6	0.0
-65°	181.2	116.0	69.4	35.4	15.7	6.9	0.0
-67.5°	152.9	97.1	58.1	28.1	14.3	6.3	0.0
-70°	123.2	80.3	46.3	20.5	12.8	5.6	0.0
-72.5°	98.5	62.7	34.0	17.1	11.3	5.0	0.0
-75°	73.8	44.5	21.3	14.7	9.7	4.3	0.0
-77.5°	48.3	25.7	16.4	12.3	8.2	3.6	0.0
-80°	22.1	16.4	13.1	9.9	6.6	2.9	0.0
-82.5°	14.7	12.3	9.9	7.4	4.9	2.2	0.0
-85°	9.8	8.2	6.6	5.0	3.3	1.4	0.0
-87.5°	4.9	4.1	3.3	2.5	1.7	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)