

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: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4E-730-U-VWR-XX**

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-08
Report Number: P627511 (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-SA4E-730-U-VWR-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N96
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

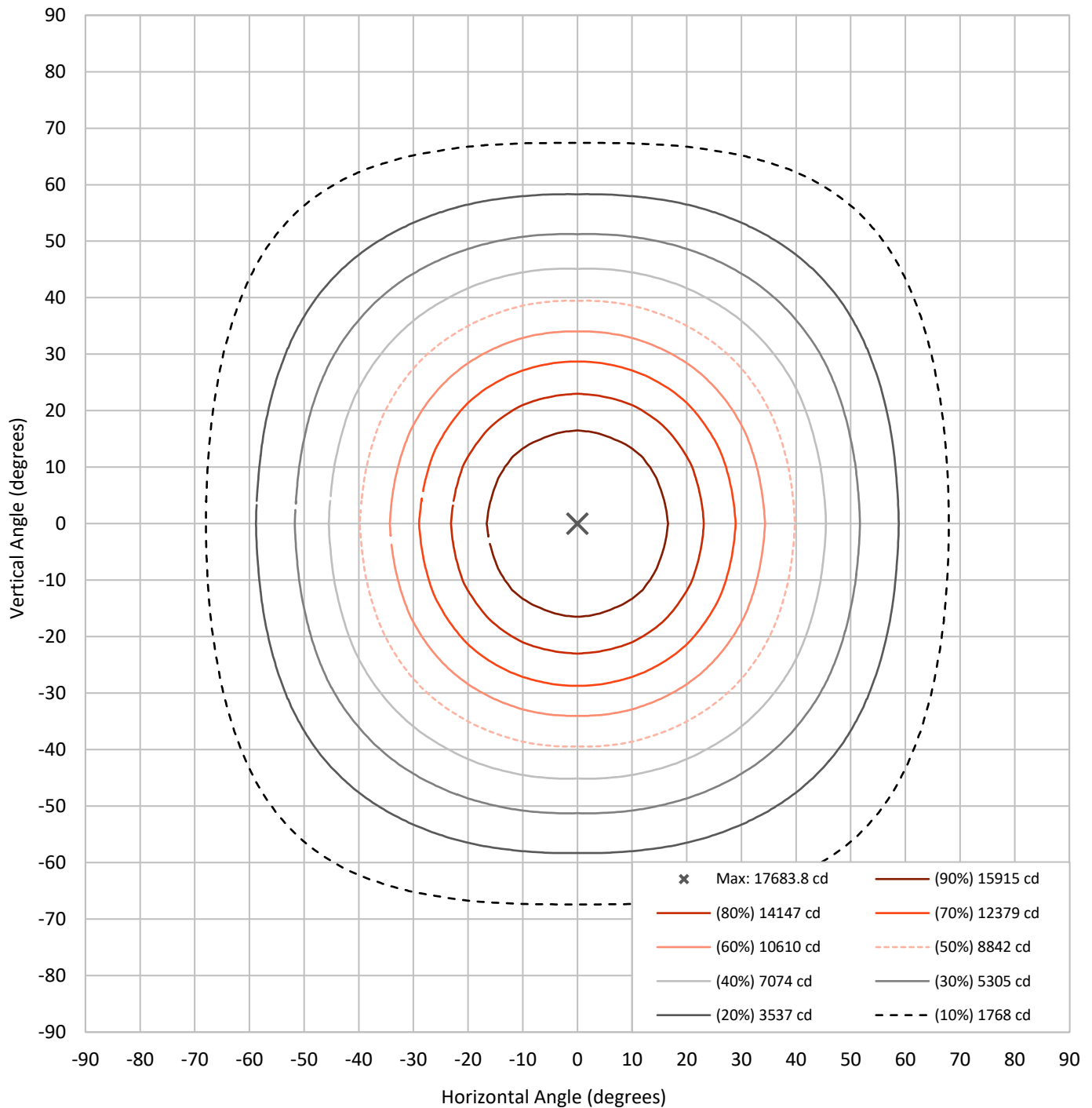
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31961.9 lumens	Max Intensity:	17683.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.9 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:	18745.8 lumens	Field Lumens:	30470.2 lumens
Beam Efficiency:	58.7%	Field Efficiency:	95.3%
Input Watts (W):	255.9		
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		



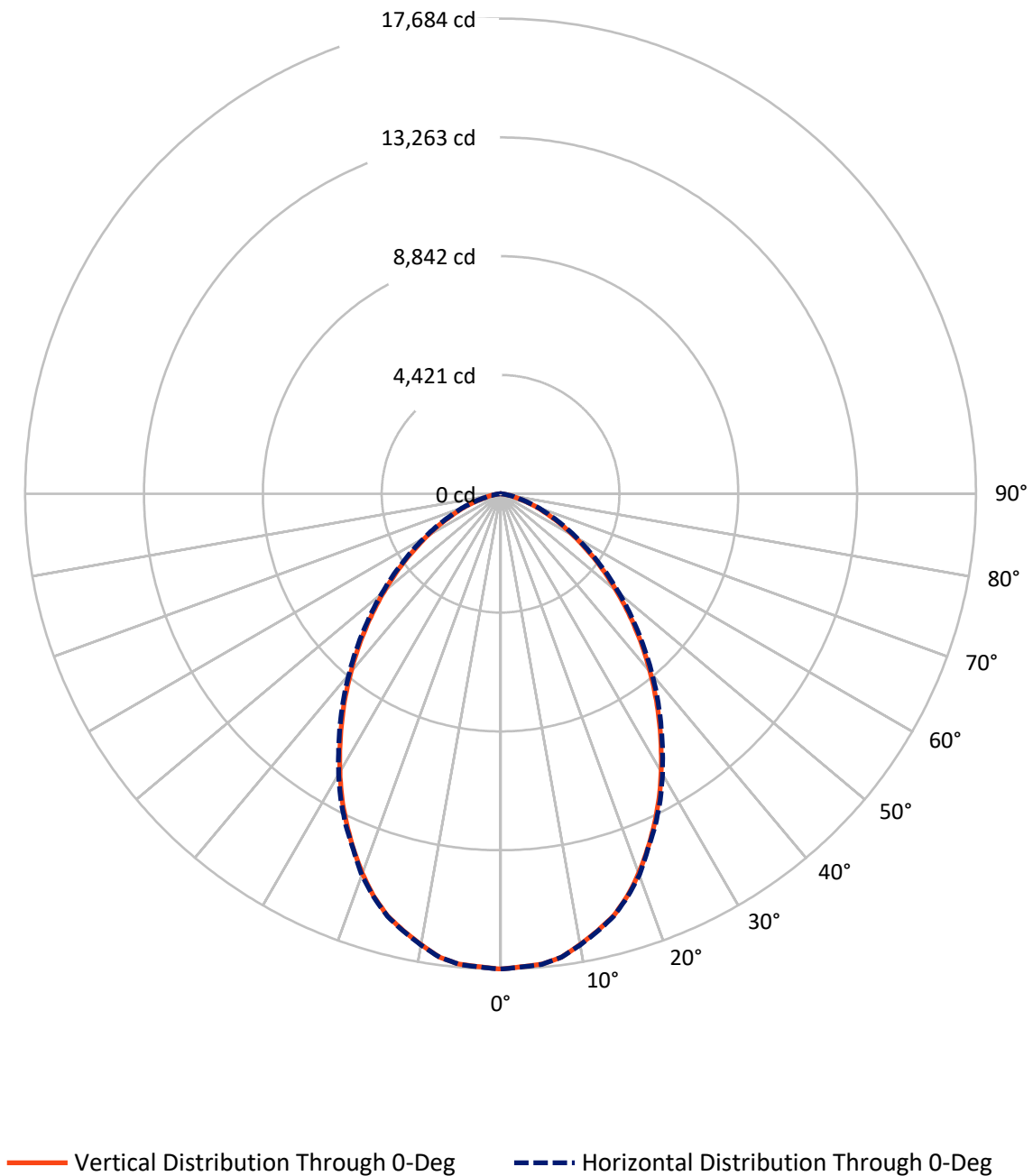
REPORT NUMBER: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4E-730-U-VWR-XX

Iso-Candela Plot



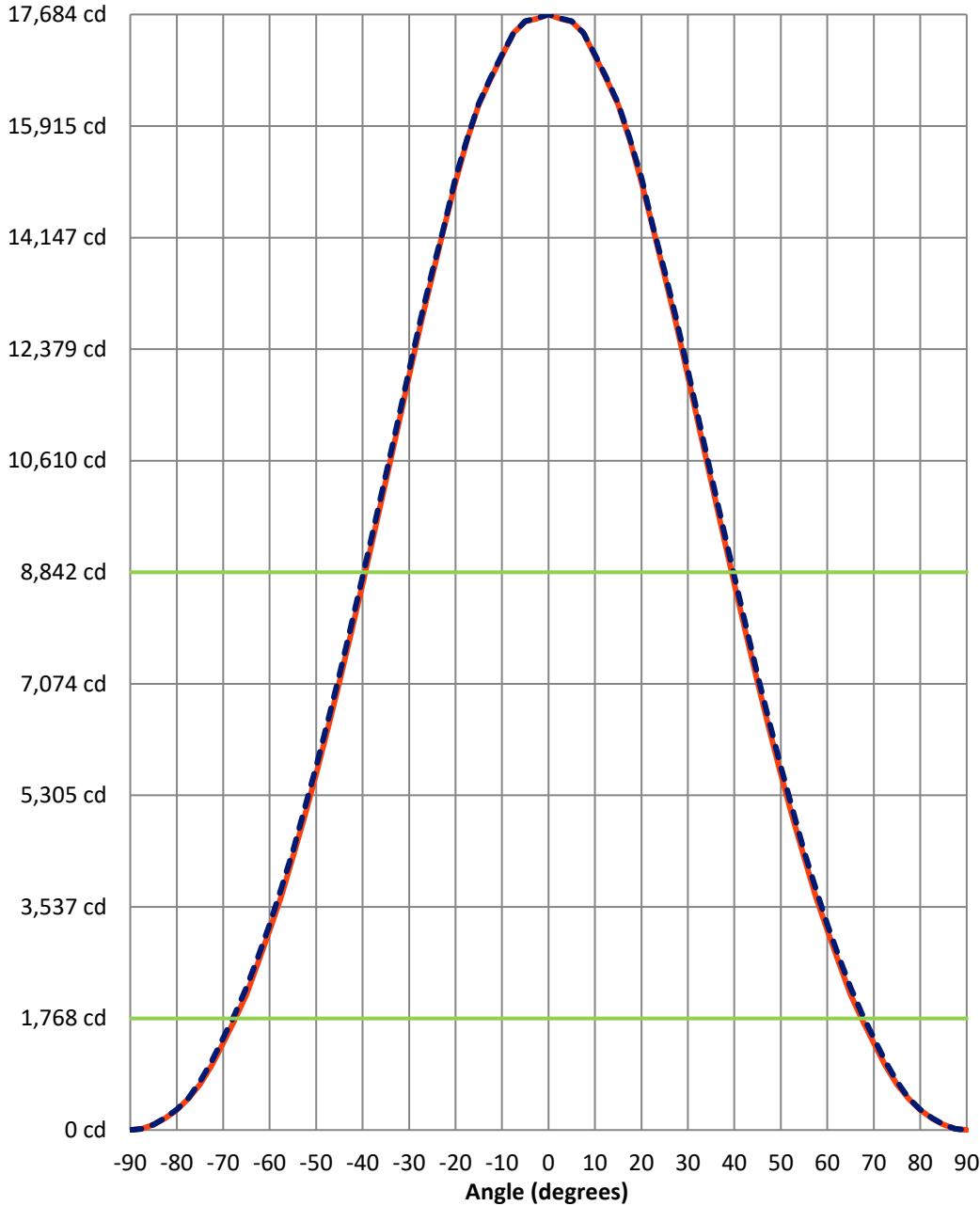
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 79.6°
 V Angle: 78.9°
 Lumens: 18745.8
 Efficiency: 58.7%

Field:
 H Angle: 135.9°
 V Angle: 134.8°
 Lumens: 30470.2
 Efficiency: 95.3%

Spill:
 Lumens: 1491.7
 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	1.0	2.3	3.5	4.6	5.7	6.9	8.0	9.1	10.1	11.2
85°	0.0	2.0	4.6	6.9	9.2	11.5	13.7	15.9	18.1	20.3	22.4
82.5°	0.0	3.0	6.9	10.3	13.8	17.2	20.5	23.8	29.8	47.0	63.4
80°	0.0	4.0	9.2	13.8	18.3	22.8	30.9	55.0	78.1	100.4	121.8
77.5°	0.0	5.0	11.4	17.2	22.8	35.8	67.3	97.6	126.2	153.6	187.6
75°	0.0	6.0	13.6	20.5	29.7	61.9	102.8	140.0	175.7	224.8	276.9
72.5°	0.0	6.9	15.7	23.8	47.4	87.3	137.2	185.5	241.6	301.3	364.6
70°	0.0	7.9	17.8	28.6	64.5	111.8	171.6	240.2	306.1	376.4	458.7
67.5°	0.0	8.8	19.9	39.1	81.0	135.3	212.9	293.5	369.2	458.1	552.4
65°	0.0	9.7	21.9	49.3	96.6	161.6	252.4	345.4	437.4	537.3	640.0
62.5°	0.0	10.5	23.8	59.0	111.5	190.4	289.9	399.6	503.3	613.0	718.4
60°	0.0	11.4	25.6	68.2	125.5	217.6	325.3	453.4	566.7	683.8	795.7
57.5°	0.0	12.2	30.8	76.8	144.1	243.2	362.5	503.6	629.2	753.4	869.0
55°	0.0	13.0	35.8	84.8	161.9	267.0	397.7	546.9	690.7	820.6	939.4
52.5°	0.0	13.7	40.6	92.3	178.4	289.6	430.4	591.9	750.8	882.6	1007.9
50°	0.0	14.4	45.3	99.1	193.6	313.5	460.3	634.7	807.8	942.6	1086.5
47.5°	0.0	15.1	49.7	106.1	207.5	335.4	488.3	674.5	859.5	1000.7	1163.4
45°	0.0	15.7	53.9	115.3	219.9	355.2	519.5	711.1	899.7	1066.5	1237.1
42.5°	0.0	16.3	57.9	123.7	231.0	372.8	548.0	744.8	938.1	1129.4	1323.8
40°	0.0	16.9	61.6	132.2	242.1	388.1	573.9	776.8	978.1	1188.4	1408.3
37.5°	0.0	17.4	65.1	140.6	253.1	401.2	597.1	807.1	1023.0	1244.3	1487.5
35°	0.0	17.9	68.4	148.5	262.5	416.3	617.6	835.6	1066.7	1308.8	1567.4
32.5°	0.0	18.3	71.4	155.7	270.4	431.5	636.6	862.3	1109.2	1370.7	1651.9
30°	0.0	18.7	74.1	162.3	276.8	444.4	656.3	889.0	1150.2	1429.9	1730.9
27.5°	0.0	19.0	76.6	168.4	286.2	455.2	673.9	920.0	1192.3	1486.1	1804.3
25°	0.0	19.3	78.8	173.7	295.1	463.6	689.5	948.8	1236.3	1543.2	1872.1
22.5°	0.0	19.6	80.8	178.5	303.0	472.2	702.8	975.2	1276.8	1597.4	1944.3
20°	0.0	19.8	82.4	182.6	309.7	483.9	713.9	998.9	1313.5	1645.7	2009.1
17.5°	0.0	19.9	83.8	186.0	315.4	493.5	727.6	1019.8	1346.2	1688.2	2066.2
15°	0.0	20.0	85.0	188.8	319.9	501.0	741.9	1039.8	1374.6	1724.6	2115.5
12.5°	0.0	20.1	85.8	191.0	323.4	506.3	753.6	1058.5	1400.4	1754.8	2156.7
10°	0.0	20.2	86.4	192.5	325.8	509.7	762.5	1072.9	1422.6	1783.1	2191.4
7.5°	0.0	20.2	86.8	193.3	327.1	511.0	768.5	1083.0	1439.7	1806.0	2221.5
5°	0.0	20.1	86.8	193.6	327.4	510.4	771.6	1088.7	1451.4	1822.6	2243.0
2.5°	0.0	20.0	86.7	193.2	326.6	508.0	771.8	1090.0	1457.7	1832.6	2255.9
0°	0.0	19.9	86.2	192.2	324.8	503.7	768.9	1087.0	1458.2	1836.0	2260.2
-2.5°	0.0	20.0	86.7	193.2	326.6	508.0	771.8	1090.0	1457.7	1832.6	2255.9
-5°	0.0	20.1	86.8	193.6	327.4	510.4	771.6	1088.7	1451.4	1822.6	2243.0
-7.5°	0.0	20.2	86.8	193.3	327.1	511.0	768.5	1083.0	1439.7	1806.0	2221.5
-10°	0.0	20.2	86.4	192.5	325.8	509.7	762.5	1072.9	1422.6	1783.1	2191.4
-12.5°	0.0	20.1	85.8	191.0	323.4	506.3	753.6	1058.5	1400.4	1754.8	2156.7
-15°	0.0	20.0	85.0	188.8	319.9	501.0	741.9	1039.8	1374.6	1724.6	2115.5
-17.5°	0.0	19.9	83.8	186.0	315.4	493.5	727.6	1019.8	1346.2	1688.2	2066.2
-20°	0.0	19.8	82.4	182.6	309.7	483.9	713.9	998.9	1313.5	1645.7	2009.1

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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	19.6	80.8	178.5	303.0	472.2	702.8	975.2	1276.8	1597.4	1944.3
-25°	0.0	19.3	78.8	173.7	295.1	463.6	689.5	948.8	1236.3	1543.2	1872.1
-27.5°	0.0	19.0	76.6	168.4	286.2	455.2	673.9	920.0	1192.3	1486.1	1804.3
-30°	0.0	18.7	74.1	162.3	276.8	444.4	656.3	889.0	1150.2	1429.9	1730.9
-32.5°	0.0	18.3	71.4	155.7	270.4	431.5	636.6	862.3	1109.2	1370.7	1651.9
-35°	0.0	17.9	68.4	148.5	262.5	416.3	617.6	835.6	1066.7	1308.8	1567.4
-37.5°	0.0	17.4	65.1	140.6	253.1	401.2	597.1	807.1	1023.0	1244.3	1487.5
-40°	0.0	16.9	61.6	132.2	242.1	388.1	573.9	776.8	978.1	1188.4	1408.3
-42.5°	0.0	16.3	57.9	123.7	231.0	372.8	548.0	744.8	938.1	1129.4	1323.8
-45°	0.0	15.7	53.9	115.3	219.9	355.2	519.5	711.1	899.7	1066.5	1237.1
-47.5°	0.0	15.1	49.7	106.1	207.5	335.4	488.3	674.5	859.5	1000.7	1163.4
-50°	0.0	14.4	45.3	99.1	193.6	313.5	460.3	634.7	807.8	942.6	1086.5
-52.5°	0.0	13.7	40.6	92.3	178.4	289.6	430.4	591.9	750.8	882.6	1007.9
-55°	0.0	13.0	35.8	84.8	161.9	267.0	397.7	546.9	690.7	820.6	939.4
-57.5°	0.0	12.2	30.8	76.8	144.1	243.2	362.5	503.6	629.2	753.4	869.0
-60°	0.0	11.4	25.6	68.2	125.5	217.6	325.3	453.4	566.7	683.8	795.7
-62.5°	0.0	10.5	23.8	59.0	111.5	190.4	289.9	399.6	503.3	613.0	718.4
-65°	0.0	9.7	21.9	49.3	96.6	161.6	252.4	345.4	437.4	537.3	640.0
-67.5°	0.0	8.8	19.9	39.1	81.0	135.3	212.9	293.5	369.2	458.1	552.4
-70°	0.0	7.9	17.8	28.6	64.5	111.8	171.6	240.2	306.1	376.4	458.7
-72.5°	0.0	6.9	15.7	23.8	47.4	87.3	137.2	185.5	241.6	301.3	364.6
-75°	0.0	6.0	13.6	20.5	29.7	61.9	102.8	140.0	175.7	224.8	276.9
-77.5°	0.0	5.0	11.4	17.2	22.8	35.8	67.3	97.6	126.2	153.6	187.6
-80°	0.0	4.0	9.2	13.8	18.3	22.8	30.9	55.0	78.1	100.4	121.8
-82.5°	0.0	3.0	6.9	10.3	13.8	17.2	20.5	23.8	29.8	47.0	63.4
-85°	0.0	2.0	4.6	6.9	9.2	11.5	13.7	15.9	18.1	20.3	22.4
-87.5°	0.0	1.0	2.3	3.5	4.6	5.7	6.9	8.0	9.1	10.1	11.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: GFLD-SA4E-730-U-VWR-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°	13.0	14.9	16.9	19.0	19.2	19.2	19.0	18.7	19.5	20.3	21.0
85°	25.9	29.7	41.3	52.4	57.8	61.2	62.7	62.4	72.6	84.4	97.1
82.5°	80.6	97.2	113.1	128.2	132.1	132.2	130.9	131.3	155.2	182.5	210.5
80°	143.6	164.7	192.6	217.4	228.2	233.8	236.4	236.0	266.1	306.3	348.5
77.5°	227.8	263.3	294.2	320.5	334.6	347.1	357.3	365.1	403.9	454.7	505.1
75°	323.7	362.7	401.4	435.1	458.7	476.2	492.5	518.7	569.5	628.8	680.3
72.5°	425.0	474.7	517.9	554.4	587.5	622.7	662.1	705.2	758.8	817.9	871.8
70°	533.1	587.8	633.0	677.1	722.2	774.8	833.8	891.9	951.6	1016.9	1079.8
67.5°	638.9	691.6	744.8	800.5	868.0	938.5	1008.2	1088.3	1170.2	1242.7	1307.6
65°	730.8	792.6	859.1	934.7	1018.1	1107.6	1200.7	1296.7	1400.7	1487.7	1567.1
62.5°	818.5	892.9	973.8	1067.8	1174.1	1280.1	1398.9	1519.2	1636.1	1738.8	1833.6
60°	899.4	989.4	1091.7	1207.0	1331.1	1472.0	1607.3	1744.1	1872.4	1988.6	2108.5
57.5°	978.1	1091.4	1214.1	1352.5	1509.4	1667.7	1826.8	1973.9	2119.1	2260.7	2396.3
55°	1061.3	1197.9	1343.8	1513.7	1690.6	1877.8	2049.1	2213.3	2373.3	2545.1	2708.5
52.5°	1152.9	1305.4	1488.2	1678.3	1882.7	2083.6	2271.8	2458.8	2652.2	2846.7	3059.3
50°	1241.3	1431.5	1631.8	1852.8	2073.6	2288.9	2504.7	2720.1	2951.8	3190.3	3431.3
47.5°	1344.6	1552.2	1788.7	2025.8	2267.0	2506.7	2747.1	3007.3	3270.6	3547.2	3813.8
45°	1449.2	1682.5	1937.3	2205.5	2466.4	2731.6	3012.7	3300.4	3609.1	3913.4	4234.1
42.5°	1548.3	1812.0	2092.9	2382.5	2672.7	2969.1	3278.1	3614.3	3951.6	4302.5	4655.0
40°	1658.0	1935.1	2244.8	2563.9	2878.8	3207.3	3560.5	3924.6	4306.3	4692.1	5074.8
37.5°	1763.5	2068.1	2393.7	2737.1	3090.4	3451.5	3835.1	4248.3	4662.3	5077.5	5499.6
35°	1862.3	2194.3	2547.0	2911.5	3286.2	3696.9	4125.7	4566.8	5015.3	5464.4	5918.4
32.5°	1964.0	2313.2	2693.3	3083.4	3496.4	3936.9	4406.5	4884.5	5362.1	5841.7	6338.6
30°	2065.8	2437.9	2835.1	3246.1	3697.8	4177.7	4682.4	5188.7	5694.0	6221.7	6751.3
27.5°	2162.1	2556.3	2974.4	3414.2	3890.8	4400.7	4936.7	5479.1	6023.9	6585.0	7149.8
25°	2250.8	2668.3	3103.7	3575.9	4081.1	4615.2	5173.7	5739.7	6337.2	6937.6	7527.4
22.5°	2337.2	2771.2	3223.5	3725.0	4253.5	4814.5	5396.0	5993.7	6618.0	7262.8	7873.1
20°	2420.4	2869.3	3340.0	3860.0	4407.9	4993.9	5598.1	6223.9	6879.0	7540.9	8197.5
17.5°	2494.2	2956.4	3448.5	3986.2	4555.3	5157.9	5780.2	6426.6	7110.8	7796.9	8492.6
15°	2558.5	3032.2	3542.4	4096.4	4685.6	5307.0	5949.2	6613.9	7315.8	8030.2	8753.5
12.5°	2612.9	3096.5	3621.5	4190.1	4796.2	5434.8	6094.4	6782.5	7503.3	8237.7	8982.0
10°	2657.1	3148.8	3685.6	4266.6	4886.5	5540.5	6214.0	6921.5	7663.8	8414.3	9174.1
7.5°	2694.7	3192.5	3736.3	4325.7	4956.0	5623.3	6307.1	7029.9	7791.7	8552.0	9328.5
5°	2722.0	3227.8	3783.0	4375.1	5016.6	5687.9	6377.7	7107.1	7885.3	8650.0	9440.5
2.5°	2738.5	3250.7	3814.7	4407.2	5064.1	5736.3	6440.3	7175.4	7953.8	8727.8	9524.6
0°	2744.0	3261.0	3831.0	4420.9	5090.4	5759.8	6475.7	7211.4	7986.9	8775.6	9577.6
-2.5°	2738.5	3250.7	3814.7	4407.2	5064.1	5736.3	6440.3	7175.4	7953.8	8727.8	9524.6
-5°	2722.0	3227.8	3783.0	4375.1	5016.6	5687.9	6377.7	7107.1	7885.3	8650.0	9440.5
-7.5°	2694.7	3192.5	3736.3	4325.7	4956.0	5623.3	6307.1	7029.9	7791.7	8552.0	9328.5
-10°	2657.1	3148.8	3685.6	4266.6	4886.5	5540.5	6214.0	6921.5	7663.8	8414.3	9174.1
-12.5°	2612.9	3096.5	3621.5	4190.1	4796.2	5434.8	6094.4	6782.5	7503.3	8237.7	8982.0
-15°	2558.5	3032.2	3542.4	4096.4	4685.6	5307.0	5949.2	6613.9	7315.8	8030.2	8753.5
-17.5°	2494.2	2956.4	3448.5	3986.2	4555.3	5157.9	5780.2	6426.6	7110.8	7796.9	8492.6
-20°	2420.4	2869.3	3340.0	3860.0	4407.9	4993.9	5598.1	6223.9	6879.0	7540.9	8197.5

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Scaled Data Report



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2337.2	2771.2	3223.5	3725.0	4253.5	4814.5	5396.0	5993.7	6618.0	7262.8	7873.1
-25°	2250.8	2668.3	3103.7	3575.9	4081.1	4615.2	5173.7	5739.7	6337.2	6937.6	7527.4
-27.5°	2162.1	2556.3	2974.4	3414.2	3890.8	4400.7	4936.7	5479.1	6023.9	6585.0	7149.8
-30°	2065.8	2437.9	2835.1	3246.1	3697.8	4177.7	4682.4	5188.7	5694.0	6221.7	6751.3
-32.5°	1964.0	2313.2	2693.3	3083.4	3496.4	3936.9	4406.5	4884.5	5362.1	5841.7	6338.6
-35°	1862.3	2194.3	2547.0	2911.5	3286.2	3696.9	4125.7	4566.8	5015.3	5464.4	5918.4
-37.5°	1763.5	2068.1	2393.7	2737.1	3090.4	3451.5	3835.1	4248.3	4662.3	5077.5	5499.6
-40°	1658.0	1935.1	2244.8	2563.9	2878.8	3207.3	3560.5	3924.6	4306.3	4692.1	5074.8
-42.5°	1548.3	1812.0	2092.9	2382.5	2672.7	2969.1	3278.1	3614.3	3951.6	4302.5	4655.0
-45°	1449.2	1682.5	1937.3	2205.5	2466.4	2731.6	3012.7	3300.4	3609.1	3913.4	4234.1
-47.5°	1344.6	1552.2	1788.7	2025.8	2267.0	2506.7	2747.1	3007.3	3270.6	3547.2	3813.8
-50°	1241.3	1431.5	1631.8	1852.8	2073.6	2288.9	2504.7	2720.1	2951.8	3190.3	3431.3
-52.5°	1152.9	1305.4	1488.2	1678.3	1882.7	2083.6	2271.8	2458.8	2652.2	2846.7	3059.3
-55°	1061.3	1197.9	1343.8	1513.7	1690.6	1877.8	2049.1	2213.3	2373.3	2545.1	2708.5
-57.5°	978.1	1091.4	1214.1	1352.5	1509.4	1667.7	1826.8	1973.9	2119.1	2260.7	2396.3
-60°	899.4	989.4	1091.7	1207.0	1331.1	1472.0	1607.3	1744.1	1872.4	1988.6	2108.5
-62.5°	818.5	892.9	973.8	1067.8	1174.1	1280.1	1398.9	1519.2	1636.1	1738.8	1833.6
-65°	730.8	792.6	859.1	934.7	1018.1	1107.6	1200.7	1296.7	1400.7	1487.7	1567.1
-67.5°	638.9	691.6	744.8	800.5	868.0	938.5	1008.2	1088.3	1170.2	1242.7	1307.6
-70°	533.1	587.8	633.0	677.1	722.2	774.8	833.8	891.9	951.6	1016.9	1079.8
-72.5°	425.0	474.7	517.9	554.4	587.5	622.7	662.1	705.2	758.8	817.9	871.8
-75°	323.7	362.7	401.4	435.1	458.7	476.2	492.5	518.7	569.5	628.8	680.3
-77.5°	227.8	263.3	294.2	320.5	334.6	347.1	357.3	365.1	403.9	454.7	505.1
-80°	143.6	164.7	192.6	217.4	228.2	233.8	236.4	236.0	266.1	306.3	348.5
-82.5°	80.6	97.2	113.1	128.2	132.1	132.2	130.9	131.3	155.2	182.5	210.5
-85°	25.9	29.7	41.3	52.4	57.8	61.2	62.7	62.4	72.6	84.4	97.1
-87.5°	13.0	14.9	16.9	19.0	19.2	19.2	19.0	18.7	19.5	20.3	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: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-730-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°	21.7	22.3	22.9	23.5	24.0	24.5	24.9	25.3	25.6	24.3	22.9
85°	110.7	118.6	125.9	132.9	139.5	145.8	151.7	157.2	162.3	148.3	132.7
82.5°	239.1	258.3	276.5	294.7	312.7	317.3	318.6	318.0	315.5	290.8	263.4
80°	390.3	422.8	453.4	483.8	513.8	517.2	513.7	507.5	498.8	466.4	429.6
77.5°	555.3	596.2	632.1	664.8	694.7	700.3	699.5	698.0	695.6	662.5	622.4
75°	724.5	764.5	803.1	835.9	863.3	875.8	882.0	886.3	888.8	865.0	833.9
72.5°	920.6	962.3	996.3	1028.2	1055.1	1074.6	1088.6	1099.2	1106.4	1099.2	1086.5
70°	1133.4	1178.1	1215.7	1251.6	1288.2	1317.5	1339.7	1355.7	1365.9	1372.6	1377.3
67.5°	1373.1	1433.0	1485.3	1530.0	1574.2	1615.7	1649.7	1677.6	1699.1	1717.4	1731.4
65°	1643.1	1719.8	1787.7	1850.1	1907.2	1967.4	2016.7	2058.2	2091.5	2119.0	2141.1
62.5°	1927.0	2020.9	2108.2	2192.8	2275.7	2357.4	2420.1	2477.1	2527.9	2571.5	2606.2
60°	2222.0	2328.7	2445.8	2557.5	2660.4	2754.3	2847.6	2928.4	2997.5	3054.8	3101.1
57.5°	2539.1	2677.3	2814.1	2952.9	3084.0	3206.7	3321.5	3422.8	3508.5	3578.7	3637.7
55°	2881.7	3054.5	3213.2	3388.2	3557.3	3711.3	3846.9	3966.0	4069.0	4155.4	4228.6
52.5°	3258.2	3468.2	3674.3	3873.5	4065.5	4244.1	4406.5	4545.2	4668.6	4774.5	4858.9
50°	3670.3	3910.6	4149.5	4371.1	4591.7	4797.5	4983.6	5144.6	5288.2	5412.5	5510.4
47.5°	4101.3	4374.8	4641.6	4895.2	5139.4	5368.2	5569.7	5753.2	5932.2	6078.2	6193.7
45°	4548.8	4855.6	5150.0	5439.9	5708.8	5965.2	6213.8	6442.3	6626.1	6786.9	6922.1
42.5°	5001.8	5344.0	5673.7	5989.9	6285.6	6582.2	6861.8	7111.6	7321.1	7504.1	7657.6
40°	5460.7	5835.4	6198.5	6543.3	6881.3	7204.7	7507.1	7770.5	8006.8	8224.1	8405.1
37.5°	5917.2	6329.4	6731.7	7118.1	7490.2	7840.5	8167.2	8465.0	8731.7	8979.1	9180.1
35°	6375.7	6828.0	7268.4	7693.6	8100.1	8486.7	8844.4	9183.2	9497.5	9748.1	9953.7
32.5°	6832.5	7318.7	7798.1	8266.1	8711.1	9127.8	9515.4	9889.8	10213.1	10488.5	10725.0
30°	7274.6	7801.2	8323.2	8830.8	9311.4	9763.0	10192.1	10588.0	10935.6	11237.0	11502.1
27.5°	7708.3	8274.1	8834.2	9376.4	9896.0	10386.7	10855.1	11284.4	11663.8	11991.3	12270.9
25°	8118.2	8726.5	9323.4	9898.3	10453.4	10994.6	11500.3	11968.8	12374.0	12733.6	13020.9
22.5°	8509.9	9158.5	9785.8	10390.5	10984.3	11567.7	12121.4	12610.5	13040.0	13415.9	13733.8
20°	8874.8	9569.8	10211.6	10851.2	11476.6	12099.6	12694.0	13210.0	13664.6	14064.7	14415.2
17.5°	9215.9	9928.8	10604.5	11285.5	11944.7	12598.1	13202.1	13755.3	14245.6	14670.5	15037.5
15°	9504.7	10224.6	10962.6	11689.6	12384.7	13046.5	13649.9	14227.5	14772.0	15231.6	15603.8
12.5°	9738.4	10487.2	11257.1	12028.9	12764.0	13424.9	14056.6	14642.7	15214.5	15730.6	16072.8
10°	9937.7	10708.8	11503.6	12290.6	13035.6	13734.9	14421.6	15041.3	15603.2	16065.4	16447.5
7.5°	10110.0	10904.3	11711.5	12499.8	13242.3	13964.8	14671.8	15329.9	15897.2	16332.6	16673.5
5°	10237.1	11050.2	11873.0	12668.6	13421.5	14146.3	14856.4	15506.3	16060.1	16503.2	16874.8
2.5°	10328.0	11148.7	11977.4	12774.2	13543.7	14270.4	14998.3	15655.5	16191.7	16597.7	16953.5
0°	10386.2	11208.1	12043.3	12858.5	13614.1	14316.7	15098.8	15715.2	16272.0	16676.3	17047.5
-2.5°	10328.0	11148.7	11977.4	12774.2	13543.7	14270.4	14998.3	15655.5	16191.7	16597.7	16953.5
-5°	10237.1	11050.2	11873.0	12668.6	13421.5	14146.3	14856.4	15506.3	16060.1	16503.2	16874.8
-7.5°	10110.0	10904.3	11711.5	12499.8	13242.3	13964.8	14671.8	15329.9	15897.2	16332.6	16673.5
-10°	9937.7	10708.8	11503.6	12290.6	13035.6	13734.9	14421.6	15041.3	15603.2	16065.4	16447.5
-12.5°	9738.4	10487.2	11257.1	12028.9	12764.0	13424.9	14056.6	14642.7	15214.5	15730.6	16072.8
-15°	9504.7	10224.6	10962.6	11689.6	12384.7	13046.5	13649.9	14227.5	14772.0	15231.6	15603.8
-17.5°	9215.9	9928.8	10604.5	11285.5	11944.7	12598.1	13202.1	13755.3	14245.6	14670.5	15037.5
-20°	8874.8	9569.8	10211.6	10851.2	11476.6	12099.6	12694.0	13210.0	13664.6	14064.7	14415.2



REPORT NUMBER: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8509.9	9158.5	9785.8	10390.5	10984.3	11567.7	12121.4	12610.5	13040.0	13415.9	13733.8
-25°	8118.2	8726.5	9323.4	9898.3	10453.4	10994.6	11500.3	11968.8	12374.0	12733.6	13020.9
-27.5°	7708.3	8274.1	8834.2	9376.4	9896.0	10386.7	10855.1	11284.4	11663.8	11991.3	12270.9
-30°	7274.6	7801.2	8323.2	8830.8	9311.4	9763.0	10192.1	10588.0	10935.6	11237.0	11502.1
-32.5°	6832.5	7318.7	7798.1	8266.1	8711.1	9127.8	9515.4	9889.8	10213.1	10488.5	10725.0
-35°	6375.7	6828.0	7268.4	7693.6	8100.1	8486.7	8844.4	9183.2	9497.5	9748.1	9953.7
-37.5°	5917.2	6329.4	6731.7	7118.1	7490.2	7840.5	8167.2	8465.0	8731.7	8979.1	9180.1
-40°	5460.7	5835.4	6198.5	6543.3	6881.3	7204.7	7507.1	7770.5	8006.8	8224.1	8405.1
-42.5°	5001.8	5344.0	5673.7	5989.9	6285.6	6582.2	6861.8	7111.6	7321.1	7504.1	7657.6
-45°	4548.8	4855.6	5150.0	5439.9	5708.8	5965.2	6213.8	6442.3	6626.1	6786.9	6922.1
-47.5°	4101.3	4374.8	4641.6	4895.2	5139.4	5368.2	5569.7	5753.2	5932.2	6078.2	6193.7
-50°	3670.3	3910.6	4149.5	4371.1	4591.7	4797.5	4983.6	5144.6	5288.2	5412.5	5510.4
-52.5°	3258.2	3468.2	3674.3	3873.5	4065.5	4244.1	4406.5	4545.2	4668.6	4774.5	4858.9
-55°	2881.7	3054.5	3213.2	3388.2	3557.3	3711.3	3846.9	3966.0	4069.0	4155.4	4228.6
-57.5°	2539.1	2677.3	2814.1	2952.9	3084.0	3206.7	3321.5	3422.8	3508.5	3578.7	3637.7
-60°	2222.0	2328.7	2445.8	2557.5	2660.4	2754.3	2847.6	2928.4	2997.5	3054.8	3101.1
-62.5°	1927.0	2020.9	2108.2	2192.8	2275.7	2357.4	2420.1	2477.1	2527.9	2571.5	2606.2
-65°	1643.1	1719.8	1787.7	1850.1	1907.2	1967.4	2016.7	2058.2	2091.5	2119.0	2141.1
-67.5°	1373.1	1433.0	1485.3	1530.0	1574.2	1615.7	1649.7	1677.6	1699.1	1717.4	1731.4
-70°	1133.4	1178.1	1215.7	1251.6	1288.2	1317.5	1339.7	1355.7	1365.9	1372.6	1377.3
-72.5°	920.6	962.3	996.3	1028.2	1055.1	1074.6	1088.6	1099.2	1106.4	1099.2	1086.5
-75°	724.5	764.5	803.1	835.9	863.3	875.8	882.0	886.3	888.8	865.0	833.9
-77.5°	555.3	596.2	632.1	664.8	694.7	700.3	699.5	698.0	695.6	662.5	622.4
-80°	390.3	422.8	453.4	483.8	513.8	517.2	513.7	507.5	498.8	466.4	429.6
-82.5°	239.1	258.3	276.5	294.7	312.7	317.3	318.6	318.0	315.5	290.8	263.4
-85°	110.7	118.6	125.9	132.9	139.5	145.8	151.7	157.2	162.3	148.3	132.7
-87.5°	21.7	22.3	22.9	23.5	24.0	24.5	24.9	25.3	25.6	24.3	22.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-730-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°	21.4	19.8	19.9	19.9	19.9	19.8	21.4	22.9	24.3	25.6	25.3
85°	116.2	98.9	92.7	86.2	92.7	98.9	116.2	132.7	148.3	162.3	157.2
82.5°	234.7	204.8	195.3	185.6	195.3	204.8	234.7	263.4	290.8	315.5	318.0
80°	390.9	350.4	334.4	318.1	334.4	350.4	390.9	429.6	466.4	498.8	507.5
77.5°	580.1	535.6	516.6	497.1	516.6	535.6	580.1	622.4	662.5	695.6	698.0
75°	801.1	766.3	745.2	722.5	745.2	766.3	801.1	833.9	865.0	888.8	886.3
72.5°	1072.0	1054.9	1039.5	1020.7	1039.5	1054.9	1072.0	1086.5	1099.2	1106.4	1099.2
70°	1378.9	1376.7	1379.5	1378.6	1379.5	1376.7	1378.9	1377.3	1372.6	1365.9	1355.7
67.5°	1738.6	1739.1	1746.5	1749.8	1746.5	1739.1	1738.6	1731.4	1717.4	1699.1	1677.6
65°	2154.7	2159.8	2157.9	2147.5	2157.9	2159.8	2154.7	2141.1	2119.0	2091.5	2058.2
62.5°	2630.9	2645.2	2653.1	2651.2	2653.1	2645.2	2630.9	2606.2	2571.5	2527.9	2477.1
60°	3135.7	3158.1	3169.4	3168.2	3169.4	3158.1	3135.7	3101.1	3054.8	2997.5	2928.4
57.5°	3681.7	3710.4	3717.2	3705.1	3717.2	3710.4	3681.7	3637.7	3578.7	3508.5	3422.8
55°	4283.9	4320.7	4334.9	4328.2	4334.9	4320.7	4283.9	4228.6	4155.4	4069.0	3966.0
52.5°	4920.8	4960.5	4974.6	4964.5	4974.6	4960.5	4920.8	4858.9	4774.5	4668.6	4545.2
50°	5582.2	5630.4	5649.8	5640.5	5649.8	5630.4	5582.2	5510.4	5412.5	5288.2	5144.6
47.5°	6284.2	6348.4	6373.4	6356.4	6373.4	6348.4	6284.2	6193.7	6078.2	5932.2	5753.2
45°	7023.0	7089.5	7115.3	7098.7	7115.3	7089.5	7023.0	6922.1	6786.9	6626.1	6442.3
42.5°	7775.0	7861.4	7897.9	7867.6	7897.9	7861.4	7775.0	7657.6	7504.1	7321.1	7111.6
40°	8540.2	8634.0	8677.3	8656.3	8677.3	8634.0	8540.2	8405.1	8224.1	8006.8	7770.5
37.5°	9325.2	9418.5	9464.4	9464.9	9464.4	9418.5	9325.2	9180.1	8979.1	8731.7	8465.0
35°	10113.1	10226.0	10289.9	10286.8	10289.9	10226.0	10113.1	9953.7	9748.1	9497.5	9183.2
32.5°	10911.9	11034.2	11099.5	11108.7	11099.5	11034.2	10911.9	10725.0	10488.5	10213.1	9889.8
30°	11709.3	11843.8	11919.5	11950.5	11919.5	11843.8	11709.3	11502.1	11237.0	10935.6	10588.0
27.5°	12482.7	12648.2	12762.4	12772.4	12762.4	12648.2	12482.7	12270.9	11991.3	11663.8	11284.4
25°	13231.7	13400.3	13517.4	13541.2	13517.4	13400.3	13231.7	13020.9	12733.6	12374.0	11968.8
22.5°	13970.0	14146.1	14254.3	14296.8	14254.3	14146.1	13970.0	13733.8	13415.9	13040.0	12610.5
20°	14674.7	14865.6	14980.3	15025.9	14980.3	14865.6	14674.7	14415.2	14064.7	13664.6	13210.0
17.5°	15312.2	15514.0	15655.5	15695.4	15655.5	15514.0	15312.2	15037.5	14670.5	14245.6	13755.3
15°	15873.4	16064.6	16199.0	16252.1	16199.0	16064.6	15873.4	15603.8	15231.6	14772.0	14227.5
12.5°	16330.1	16501.2	16606.5	16656.4	16606.5	16501.2	16330.1	16072.8	15730.6	15214.5	14642.7
10°	16686.8	16858.5	16959.0	17027.6	16959.0	16858.5	16686.8	16447.5	16065.4	15603.2	15041.3
7.5°	16996.5	17172.3	17295.4	17392.2	17295.4	17172.3	16996.5	16673.5	16332.6	15897.2	15329.9
5°	17167.4	17461.2	17505.3	17571.1	17505.3	17461.2	17167.4	16874.8	16503.2	16060.1	15506.3
2.5°	17297.8	17506.1	17631.4	17617.5	17631.4	17506.1	17297.8	16953.5	16597.7	16191.7	15655.5
0°	17392.2	17577.7	17624.1	17683.8	17624.1	17577.7	17392.2	17047.5	16676.3	16272.0	15715.2
-2.5°	17297.8	17506.1	17631.4	17617.5	17631.4	17506.1	17297.8	16953.5	16597.7	16191.7	15655.5
-5°	17167.4	17461.2	17505.3	17571.1	17505.3	17461.2	17167.4	16874.8	16503.2	16060.1	15506.3
-7.5°	16996.5	17172.3	17295.4	17392.2	17295.4	17172.3	16996.5	16673.5	16332.6	15897.2	15329.9
-10°	16686.8	16858.5	16959.0	17027.6	16959.0	16858.5	16686.8	16447.5	16065.4	15603.2	15041.3
-12.5°	16330.1	16501.2	16606.5	16656.4	16606.5	16501.2	16330.1	16072.8	15730.6	15214.5	14642.7
-15°	15873.4	16064.6	16199.0	16252.1	16199.0	16064.6	15873.4	15603.8	15231.6	14772.0	14227.5
-17.5°	15312.2	15514.0	15655.5	15695.4	15655.5	15514.0	15312.2	15037.5	14670.5	14245.6	13755.3
-20°	14674.7	14865.6	14980.3	15025.9	14980.3	14865.6	14674.7	14415.2	14064.7	13664.6	13210.0



REPORT NUMBER: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-730-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°	13970.0	14146.1	14254.3	14296.8	14254.3	14146.1	13970.0	13733.8	13415.9	13040.0	12610.5
-25°	13231.7	13400.3	13517.4	13541.2	13517.4	13400.3	13231.7	13020.9	12733.6	12374.0	11968.8
-27.5°	12482.7	12648.2	12762.4	12772.4	12762.4	12648.2	12482.7	12270.9	11991.3	11663.8	11284.4
-30°	11709.3	11843.8	11919.5	11950.5	11919.5	11843.8	11709.3	11502.1	11237.0	10935.6	10588.0
-32.5°	10911.9	11034.2	11099.5	11108.7	11099.5	11034.2	10911.9	10725.0	10488.5	10213.1	9889.8
-35°	10113.1	10226.0	10289.9	10286.8	10289.9	10226.0	10113.1	9953.7	9748.1	9497.5	9183.2
-37.5°	9325.2	9418.5	9464.4	9464.9	9464.4	9418.5	9325.2	9180.1	8979.1	8731.7	8465.0
-40°	8540.2	8634.0	8677.3	8656.3	8677.3	8634.0	8540.2	8405.1	8224.1	8006.8	7770.5
-42.5°	7775.0	7861.4	7897.9	7867.6	7897.9	7861.4	7775.0	7657.6	7504.1	7321.1	7111.6
-45°	7023.0	7089.5	7115.3	7098.7	7115.3	7089.5	7023.0	6922.1	6786.9	6626.1	6442.3
-47.5°	6284.2	6348.4	6373.4	6356.4	6373.4	6348.4	6284.2	6193.7	6078.2	5932.2	5753.2
-50°	5582.2	5630.4	5649.8	5640.5	5649.8	5630.4	5582.2	5510.4	5412.5	5288.2	5144.6
-52.5°	4920.8	4960.5	4974.6	4964.5	4974.6	4960.5	4920.8	4858.9	4774.5	4668.6	4545.2
-55°	4283.9	4320.7	4334.9	4328.2	4334.9	4320.7	4283.9	4228.6	4155.4	4069.0	3966.0
-57.5°	3681.7	3710.4	3717.2	3705.1	3717.2	3710.4	3681.7	3637.7	3578.7	3508.5	3422.8
-60°	3135.7	3158.1	3169.4	3168.2	3169.4	3158.1	3135.7	3101.1	3054.8	2997.5	2928.4
-62.5°	2630.9	2645.2	2653.1	2651.2	2653.1	2645.2	2630.9	2606.2	2571.5	2527.9	2477.1
-65°	2154.7	2159.8	2157.9	2147.5	2157.9	2159.8	2154.7	2141.1	2119.0	2091.5	2058.2
-67.5°	1738.6	1739.1	1746.5	1749.8	1746.5	1739.1	1738.6	1731.4	1717.4	1699.1	1677.6
-70°	1378.9	1376.7	1379.5	1378.6	1379.5	1376.7	1378.9	1377.3	1372.6	1365.9	1355.7
-72.5°	1072.0	1054.9	1039.5	1020.7	1039.5	1054.9	1072.0	1086.5	1099.2	1106.4	1099.2
-75°	801.1	766.3	745.2	722.5	745.2	766.3	801.1	833.9	865.0	888.8	886.3
-77.5°	580.1	535.6	516.6	497.1	516.6	535.6	580.1	622.4	662.5	695.6	698.0
-80°	390.9	350.4	334.4	318.1	334.4	350.4	390.9	429.6	466.4	498.8	507.5
-82.5°	234.7	204.8	195.3	185.6	195.3	204.8	234.7	263.4	290.8	315.5	318.0
-85°	116.2	98.9	92.7	86.2	92.7	98.9	116.2	132.7	148.3	162.3	157.2
-87.5°	21.4	19.8	19.9	19.9	19.9	19.8	21.4	22.9	24.3	25.6	25.3
-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: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-730-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°	24.9	24.5	24.0	23.5	22.9	22.3	21.7	21.0	20.3	19.5	18.7
85°	151.7	145.8	139.5	132.9	125.9	118.6	110.7	97.1	84.4	72.6	62.4
82.5°	318.6	317.3	312.7	294.7	276.5	258.3	239.1	210.5	182.5	155.2	131.3
80°	513.7	517.2	513.8	483.8	453.4	422.8	390.3	348.5	306.3	266.1	236.0
77.5°	699.5	700.3	694.7	664.8	632.1	596.2	555.3	505.1	454.7	403.9	365.1
75°	882.0	875.8	863.3	835.9	803.1	764.5	724.5	680.3	628.8	569.5	518.7
72.5°	1088.6	1074.6	1055.1	1028.2	996.3	962.3	920.6	871.8	817.9	758.8	705.2
70°	1339.7	1317.5	1288.2	1251.6	1215.7	1178.1	1133.4	1079.8	1016.9	951.6	891.9
67.5°	1649.7	1615.7	1574.2	1530.0	1485.3	1433.0	1373.1	1307.6	1242.7	1170.2	1088.3
65°	2016.7	1967.4	1907.2	1850.1	1787.7	1719.8	1643.1	1567.1	1487.7	1400.7	1296.7
62.5°	2420.1	2357.4	2275.7	2192.8	2108.2	2020.9	1927.0	1833.6	1738.8	1636.1	1519.2
60°	2847.6	2754.3	2660.4	2557.5	2445.8	2328.7	2222.0	2108.5	1988.6	1872.4	1744.1
57.5°	3321.5	3206.7	3084.0	2952.9	2814.1	2677.3	2539.1	2396.3	2260.7	2119.1	1973.9
55°	3846.9	3711.3	3557.3	3388.2	3213.2	3054.5	2881.7	2708.5	2545.1	2373.3	2213.3
52.5°	4406.5	4244.1	4065.5	3873.5	3674.3	3468.2	3258.2	3059.3	2846.7	2652.2	2458.8
50°	4983.6	4797.5	4591.7	4371.1	4149.5	3910.6	3670.3	3431.3	3190.3	2951.8	2720.1
47.5°	5569.7	5368.2	5139.4	4895.2	4641.6	4374.8	4101.3	3813.8	3547.2	3270.6	3007.3
45°	6213.8	5965.2	5708.8	5439.9	5150.0	4855.6	4548.8	4234.1	3913.4	3609.1	3300.4
42.5°	6861.8	6582.2	6285.6	5989.9	5673.7	5344.0	5001.8	4655.0	4302.5	3951.6	3614.3
40°	7507.1	7204.7	6881.3	6543.3	6198.5	5835.4	5460.7	5074.8	4692.1	4306.3	3924.6
37.5°	8167.2	7840.5	7490.2	7118.1	6731.7	6329.4	5917.2	5499.6	5077.5	4662.3	4248.3
35°	8844.4	8486.7	8100.1	7693.6	7268.4	6828.0	6375.7	5918.4	5464.4	5015.3	4566.8
32.5°	9515.4	9127.8	8711.1	8266.1	7798.1	7318.7	6832.5	6338.6	5841.7	5362.1	4884.5
30°	10192.1	9763.0	9311.4	8830.8	8323.2	7801.2	7274.6	6751.3	6221.7	5694.0	5188.7
27.5°	10855.1	10386.7	9896.0	9376.4	8834.2	8274.1	7708.3	7149.8	6585.0	6023.9	5479.1
25°	11500.3	10994.6	10453.4	9898.3	9323.4	8726.5	8118.2	7527.4	6937.6	6337.2	5739.7
22.5°	12121.4	11567.7	10984.3	10390.5	9785.8	9158.5	8509.9	7873.1	7262.8	6618.0	5993.7
20°	12694.0	12099.6	11476.6	10851.2	10211.6	9569.8	8874.8	8197.5	7540.9	6879.0	6223.9
17.5°	13202.1	12598.1	11944.7	11285.5	10604.5	9928.8	9215.9	8492.6	7796.9	7110.8	6426.6
15°	13649.9	13046.5	12384.7	11689.6	10962.6	10224.6	9504.7	8753.5	8030.2	7315.8	6613.9
12.5°	14056.6	13424.9	12764.0	12028.9	11257.1	10487.2	9738.4	8982.0	8237.7	7503.3	6782.5
10°	14421.6	13734.9	13035.6	12290.6	11503.6	10708.8	9937.7	9174.1	8414.3	7663.8	6921.5
7.5°	14671.8	13964.8	13242.3	12499.8	11711.5	10904.3	10110.0	9328.5	8552.0	7791.7	7029.9
5°	14856.4	14146.3	13421.5	12668.6	11873.0	11050.2	10237.1	9440.5	8650.0	7885.3	7107.1
2.5°	14998.3	14270.4	13543.7	12774.2	11977.4	11148.7	10328.0	9524.6	8727.8	7953.8	7175.4
0°	15098.8	14316.7	13614.1	12858.5	12043.3	11208.1	10386.2	9577.6	8775.6	7986.9	7211.4
-2.5°	14998.3	14270.4	13543.7	12774.2	11977.4	11148.7	10328.0	9524.6	8727.8	7953.8	7175.4
-5°	14856.4	14146.3	13421.5	12668.6	11873.0	11050.2	10237.1	9440.5	8650.0	7885.3	7107.1
-7.5°	14671.8	13964.8	13242.3	12499.8	11711.5	10904.3	10110.0	9328.5	8552.0	7791.7	7029.9
-10°	14421.6	13734.9	13035.6	12290.6	11503.6	10708.8	9937.7	9174.1	8414.3	7663.8	6921.5
-12.5°	14056.6	13424.9	12764.0	12028.9	11257.1	10487.2	9738.4	8982.0	8237.7	7503.3	6782.5
-15°	13649.9	13046.5	12384.7	11689.6	10962.6	10224.6	9504.7	8753.5	8030.2	7315.8	6613.9
-17.5°	13202.1	12598.1	11944.7	11285.5	10604.5	9928.8	9215.9	8492.6	7796.9	7110.8	6426.6
-20°	12694.0	12099.6	11476.6	10851.2	10211.6	9569.8	8874.8	8197.5	7540.9	6879.0	6223.9



REPORT NUMBER: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12121.4	11567.7	10984.3	10390.5	9785.8	9158.5	8509.9	7873.1	7262.8	6618.0	5993.7
-25°	11500.3	10994.6	10453.4	9898.3	9323.4	8726.5	8118.2	7527.4	6937.6	6337.2	5739.7
-27.5°	10855.1	10386.7	9896.0	9376.4	8834.2	8274.1	7708.3	7149.8	6585.0	6023.9	5479.1
-30°	10192.1	9763.0	9311.4	8830.8	8323.2	7801.2	7274.6	6751.3	6221.7	5694.0	5188.7
-32.5°	9515.4	9127.8	8711.1	8266.1	7798.1	7318.7	6832.5	6338.6	5841.7	5362.1	4884.5
-35°	8844.4	8486.7	8100.1	7693.6	7268.4	6828.0	6375.7	5918.4	5464.4	5015.3	4566.8
-37.5°	8167.2	7840.5	7490.2	7118.1	6731.7	6329.4	5917.2	5499.6	5077.5	4662.3	4248.3
-40°	7507.1	7204.7	6881.3	6543.3	6198.5	5835.4	5460.7	5074.8	4692.1	4306.3	3924.6
-42.5°	6861.8	6582.2	6285.6	5989.9	5673.7	5344.0	5001.8	4655.0	4302.5	3951.6	3614.3
-45°	6213.8	5965.2	5708.8	5439.9	5150.0	4855.6	4548.8	4234.1	3913.4	3609.1	3300.4
-47.5°	5569.7	5368.2	5139.4	4895.2	4641.6	4374.8	4101.3	3813.8	3547.2	3270.6	3007.3
-50°	4983.6	4797.5	4591.7	4371.1	4149.5	3910.6	3670.3	3431.3	3190.3	2951.8	2720.1
-52.5°	4406.5	4244.1	4065.5	3873.5	3674.3	3468.2	3258.2	3059.3	2846.7	2652.2	2458.8
-55°	3846.9	3711.3	3557.3	3388.2	3213.2	3054.5	2881.7	2708.5	2545.1	2373.3	2213.3
-57.5°	3321.5	3206.7	3084.0	2952.9	2814.1	2677.3	2539.1	2396.3	2260.7	2119.1	1973.9
-60°	2847.6	2754.3	2660.4	2557.5	2445.8	2328.7	2222.0	2108.5	1988.6	1872.4	1744.1
-62.5°	2420.1	2357.4	2275.7	2192.8	2108.2	2020.9	1927.0	1833.6	1738.8	1636.1	1519.2
-65°	2016.7	1967.4	1907.2	1850.1	1787.7	1719.8	1643.1	1567.1	1487.7	1400.7	1296.7
-67.5°	1649.7	1615.7	1574.2	1530.0	1485.3	1433.0	1373.1	1307.6	1242.7	1170.2	1088.3
-70°	1339.7	1317.5	1288.2	1251.6	1215.7	1178.1	1133.4	1079.8	1016.9	951.6	891.9
-72.5°	1088.6	1074.6	1055.1	1028.2	996.3	962.3	920.6	871.8	817.9	758.8	705.2
-75°	882.0	875.8	863.3	835.9	803.1	764.5	724.5	680.3	628.8	569.5	518.7
-77.5°	699.5	700.3	694.7	664.8	632.1	596.2	555.3	505.1	454.7	403.9	365.1
-80°	513.7	517.2	513.8	483.8	453.4	422.8	390.3	348.5	306.3	266.1	236.0
-82.5°	318.6	317.3	312.7	294.7	276.5	258.3	239.1	210.5	182.5	155.2	131.3
-85°	151.7	145.8	139.5	132.9	125.9	118.6	110.7	97.1	84.4	72.6	62.4
-87.5°	24.9	24.5	24.0	23.5	22.9	22.3	21.7	21.0	20.3	19.5	18.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-730-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°	19.0	19.2	19.2	19.0	16.9	14.9	13.0	11.2	10.1	9.1	8.0
85°	62.7	61.2	57.8	52.4	41.3	29.7	25.9	22.4	20.3	18.1	15.9
82.5°	130.9	132.2	132.1	128.2	113.1	97.2	80.6	63.4	47.0	29.8	23.8
80°	236.4	233.8	228.2	217.4	192.6	164.7	143.6	121.8	100.4	78.1	55.0
77.5°	357.3	347.1	334.6	320.5	294.2	263.3	227.8	187.6	153.6	126.2	97.6
75°	492.5	476.2	458.7	435.1	401.4	362.7	323.7	276.9	224.8	175.7	140.0
72.5°	662.1	622.7	587.5	554.4	517.9	474.7	425.0	364.6	301.3	241.6	185.5
70°	833.8	774.8	722.2	677.1	633.0	587.8	533.1	458.7	376.4	306.1	240.2
67.5°	1008.2	938.5	868.0	800.5	744.8	691.6	638.9	552.4	458.1	369.2	293.5
65°	1200.7	1107.6	1018.1	934.7	859.1	792.6	730.8	640.0	537.3	437.4	345.4
62.5°	1398.9	1280.1	1174.1	1067.8	973.8	892.9	818.5	718.4	613.0	503.3	399.6
60°	1607.3	1472.0	1331.1	1207.0	1091.7	989.4	899.4	795.7	683.8	566.7	453.4
57.5°	1826.8	1667.7	1509.4	1352.5	1214.1	1091.4	978.1	869.0	753.4	629.2	503.6
55°	2049.1	1877.8	1690.6	1513.7	1343.8	1197.9	1061.3	939.4	820.6	690.7	546.9
52.5°	2271.8	2083.6	1882.7	1678.3	1488.2	1305.4	1152.9	1007.9	882.6	750.8	591.9
50°	2504.7	2288.9	2073.6	1852.8	1631.8	1431.5	1241.3	1086.5	942.6	807.8	634.7
47.5°	2747.1	2506.7	2267.0	2025.8	1788.7	1552.2	1344.6	1163.4	1000.7	859.5	674.5
45°	3012.7	2731.6	2466.4	2205.5	1937.3	1682.5	1449.2	1237.1	1066.5	899.7	711.1
42.5°	3278.1	2969.1	2672.7	2382.5	2092.9	1812.0	1548.3	1323.8	1129.4	938.1	744.8
40°	3560.5	3207.3	2878.8	2563.9	2244.8	1935.1	1658.0	1408.3	1188.4	978.1	776.8
37.5°	3835.1	3451.5	3090.4	2737.1	2393.7	2068.1	1763.5	1487.5	1244.3	1023.0	807.1
35°	4125.7	3696.9	3286.2	2911.5	2547.0	2194.3	1862.3	1567.4	1308.8	1066.7	835.6
32.5°	4406.5	3936.9	3496.4	3083.4	2693.3	2313.2	1964.0	1651.9	1370.7	1109.2	862.3
30°	4682.4	4177.7	3697.8	3246.1	2835.1	2437.9	2065.8	1730.9	1429.9	1150.2	889.0
27.5°	4936.7	4400.7	3890.8	3414.2	2974.4	2556.3	2162.1	1804.3	1486.1	1192.3	920.0
25°	5173.7	4615.2	4081.1	3575.9	3103.7	2668.3	2250.8	1872.1	1543.2	1236.3	948.8
22.5°	5396.0	4814.5	4253.5	3725.0	3223.5	2771.2	2337.2	1944.3	1597.4	1276.8	975.2
20°	5598.1	4993.9	4407.9	3860.0	3340.0	2869.3	2420.4	2009.1	1645.7	1313.5	998.9
17.5°	5780.2	5157.9	4555.3	3986.2	3448.5	2956.4	2494.2	2066.2	1688.2	1346.2	1019.8
15°	5949.2	5307.0	4685.6	4096.4	3542.4	3032.2	2558.5	2115.5	1724.6	1374.6	1039.8
12.5°	6094.4	5434.8	4796.2	4190.1	3621.5	3096.5	2612.9	2156.7	1754.8	1400.4	1058.5
10°	6214.0	5540.5	4886.5	4266.6	3685.6	3148.8	2657.1	2191.4	1783.1	1422.6	1072.9
7.5°	6307.1	5623.3	4956.0	4325.7	3736.3	3192.5	2694.7	2221.5	1806.0	1439.7	1083.0
5°	6377.7	5687.9	5016.6	4375.1	3783.0	3227.8	2722.0	2243.0	1822.6	1451.4	1088.7
2.5°	6440.3	5736.3	5064.1	4407.2	3814.7	3250.7	2738.5	2255.9	1832.6	1457.7	1090.0
0°	6475.7	5759.8	5090.4	4420.9	3831.0	3261.0	2744.0	2260.2	1836.0	1458.2	1087.0
-2.5°	6440.3	5736.3	5064.1	4407.2	3814.7	3250.7	2738.5	2255.9	1832.6	1457.7	1090.0
-5°	6377.7	5687.9	5016.6	4375.1	3783.0	3227.8	2722.0	2243.0	1822.6	1451.4	1088.7
-7.5°	6307.1	5623.3	4956.0	4325.7	3736.3	3192.5	2694.7	2221.5	1806.0	1439.7	1083.0
-10°	6214.0	5540.5	4886.5	4266.6	3685.6	3148.8	2657.1	2191.4	1783.1	1422.6	1072.9
-12.5°	6094.4	5434.8	4796.2	4190.1	3621.5	3096.5	2612.9	2156.7	1754.8	1400.4	1058.5
-15°	5949.2	5307.0	4685.6	4096.4	3542.4	3032.2	2558.5	2115.5	1724.6	1374.6	1039.8
-17.5°	5780.2	5157.9	4555.3	3986.2	3448.5	2956.4	2494.2	2066.2	1688.2	1346.2	1019.8
-20°	5598.1	4993.9	4407.9	3860.0	3340.0	2869.3	2420.4	2009.1	1645.7	1313.5	998.9



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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°	5396.0	4814.5	4253.5	3725.0	3223.5	2771.2	2337.2	1944.3	1597.4	1276.8	975.2
-25°	5173.7	4615.2	4081.1	3575.9	3103.7	2668.3	2250.8	1872.1	1543.2	1236.3	948.8
-27.5°	4936.7	4400.7	3890.8	3414.2	2974.4	2556.3	2162.1	1804.3	1486.1	1192.3	920.0
-30°	4682.4	4177.7	3697.8	3246.1	2835.1	2437.9	2065.8	1730.9	1429.9	1150.2	889.0
-32.5°	4406.5	3936.9	3496.4	3083.4	2693.3	2313.2	1964.0	1651.9	1370.7	1109.2	862.3
-35°	4125.7	3696.9	3286.2	2911.5	2547.0	2194.3	1862.3	1567.4	1308.8	1066.7	835.6
-37.5°	3835.1	3451.5	3090.4	2737.1	2393.7	2068.1	1763.5	1487.5	1244.3	1023.0	807.1
-40°	3560.5	3207.3	2878.8	2563.9	2244.8	1935.1	1658.0	1408.3	1188.4	978.1	776.8
-42.5°	3278.1	2969.1	2672.7	2382.5	2092.9	1812.0	1548.3	1323.8	1129.4	938.1	744.8
-45°	3012.7	2731.6	2466.4	2205.5	1937.3	1682.5	1449.2	1237.1	1066.5	899.7	711.1
-47.5°	2747.1	2506.7	2267.0	2025.8	1788.7	1552.2	1344.6	1163.4	1000.7	859.5	674.5
-50°	2504.7	2288.9	2073.6	1852.8	1631.8	1431.5	1241.3	1086.5	942.6	807.8	634.7
-52.5°	2271.8	2083.6	1882.7	1678.3	1488.2	1305.4	1152.9	1007.9	882.6	750.8	591.9
-55°	2049.1	1877.8	1690.6	1513.7	1343.8	1197.9	1061.3	939.4	820.6	690.7	546.9
-57.5°	1826.8	1667.7	1509.4	1352.5	1214.1	1091.4	978.1	869.0	753.4	629.2	503.6
-60°	1607.3	1472.0	1331.1	1207.0	1091.7	989.4	899.4	795.7	683.8	566.7	453.4
-62.5°	1398.9	1280.1	1174.1	1067.8	973.8	892.9	818.5	718.4	613.0	503.3	399.6
-65°	1200.7	1107.6	1018.1	934.7	859.1	792.6	730.8	640.0	537.3	437.4	345.4
-67.5°	1008.2	938.5	868.0	800.5	744.8	691.6	638.9	552.4	458.1	369.2	293.5
-70°	833.8	774.8	722.2	677.1	633.0	587.8	533.1	458.7	376.4	306.1	240.2
-72.5°	662.1	622.7	587.5	554.4	517.9	474.7	425.0	364.6	301.3	241.6	185.5
-75°	492.5	476.2	458.7	435.1	401.4	362.7	323.7	276.9	224.8	175.7	140.0
-77.5°	357.3	347.1	334.6	320.5	294.2	263.3	227.8	187.6	153.6	126.2	97.6
-80°	236.4	233.8	228.2	217.4	192.6	164.7	143.6	121.8	100.4	78.1	55.0
-82.5°	130.9	132.2	132.1	128.2	113.1	97.2	80.6	63.4	47.0	29.8	23.8
-85°	62.7	61.2	57.8	52.4	41.3	29.7	25.9	22.4	20.3	18.1	15.9
-87.5°	19.0	19.2	19.2	19.0	16.9	14.9	13.0	11.2	10.1	9.1	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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CATALOG NUMBER: GFLD-SA4E-730-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°	6.9	5.7	4.6	3.5	2.3	1.0	0.0
85°	13.7	11.5	9.2	6.9	4.6	2.0	0.0
82.5°	20.5	17.2	13.8	10.3	6.9	3.0	0.0
80°	30.9	22.8	18.3	13.8	9.2	4.0	0.0
77.5°	67.3	35.8	22.8	17.2	11.4	5.0	0.0
75°	102.8	61.9	29.7	20.5	13.6	6.0	0.0
72.5°	137.2	87.3	47.4	23.8	15.7	6.9	0.0
70°	171.6	111.8	64.5	28.6	17.8	7.9	0.0
67.5°	212.9	135.3	81.0	39.1	19.9	8.8	0.0
65°	252.4	161.6	96.6	49.3	21.9	9.7	0.0
62.5°	289.9	190.4	111.5	59.0	23.8	10.5	0.0
60°	325.3	217.6	125.5	68.2	25.6	11.4	0.0
57.5°	362.5	243.2	144.1	76.8	30.8	12.2	0.0
55°	397.7	267.0	161.9	84.8	35.8	13.0	0.0
52.5°	430.4	289.6	178.4	92.3	40.6	13.7	0.0
50°	460.3	313.5	193.6	99.1	45.3	14.4	0.0
47.5°	488.3	335.4	207.5	106.1	49.7	15.1	0.0
45°	519.5	355.2	219.9	115.3	53.9	15.7	0.0
42.5°	548.0	372.8	231.0	123.7	57.9	16.3	0.0
40°	573.9	388.1	242.1	132.2	61.6	16.9	0.0
37.5°	597.1	401.2	253.1	140.6	65.1	17.4	0.0
35°	617.6	416.3	262.5	148.5	68.4	17.9	0.0
32.5°	636.6	431.5	270.4	155.7	71.4	18.3	0.0
30°	656.3	444.4	276.8	162.3	74.1	18.7	0.0
27.5°	673.9	455.2	286.2	168.4	76.6	19.0	0.0
25°	689.5	463.6	295.1	173.7	78.8	19.3	0.0
22.5°	702.8	472.2	303.0	178.5	80.8	19.6	0.0
20°	713.9	483.9	309.7	182.6	82.4	19.8	0.0
17.5°	727.6	493.5	315.4	186.0	83.8	19.9	0.0
15°	741.9	501.0	319.9	188.8	85.0	20.0	0.0
12.5°	753.6	506.3	323.4	191.0	85.8	20.1	0.0
10°	762.5	509.7	325.8	192.5	86.4	20.2	0.0
7.5°	768.5	511.0	327.1	193.3	86.8	20.2	0.0
5°	771.6	510.4	327.4	193.6	86.8	20.1	0.0
2.5°	771.8	508.0	326.6	193.2	86.7	20.0	0.0
0°	768.9	503.7	324.8	192.2	86.2	19.9	0.0
-2.5°	771.8	508.0	326.6	193.2	86.7	20.0	0.0
-5°	771.6	510.4	327.4	193.6	86.8	20.1	0.0
-7.5°	768.5	511.0	327.1	193.3	86.8	20.2	0.0
-10°	762.5	509.7	325.8	192.5	86.4	20.2	0.0
-12.5°	753.6	506.3	323.4	191.0	85.8	20.1	0.0
-15°	741.9	501.0	319.9	188.8	85.0	20.0	0.0
-17.5°	727.6	493.5	315.4	186.0	83.8	19.9	0.0
-20°	713.9	483.9	309.7	182.6	82.4	19.8	0.0

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REPORT NUMBER: P627511 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	702.8	472.2	303.0	178.5	80.8	19.6	0.0
-25°	689.5	463.6	295.1	173.7	78.8	19.3	0.0
-27.5°	673.9	455.2	286.2	168.4	76.6	19.0	0.0
-30°	656.3	444.4	276.8	162.3	74.1	18.7	0.0
-32.5°	636.6	431.5	270.4	155.7	71.4	18.3	0.0
-35°	617.6	416.3	262.5	148.5	68.4	17.9	0.0
-37.5°	597.1	401.2	253.1	140.6	65.1	17.4	0.0
-40°	573.9	388.1	242.1	132.2	61.6	16.9	0.0
-42.5°	548.0	372.8	231.0	123.7	57.9	16.3	0.0
-45°	519.5	355.2	219.9	115.3	53.9	15.7	0.0
-47.5°	488.3	335.4	207.5	106.1	49.7	15.1	0.0
-50°	460.3	313.5	193.6	99.1	45.3	14.4	0.0
-52.5°	430.4	289.6	178.4	92.3	40.6	13.7	0.0
-55°	397.7	267.0	161.9	84.8	35.8	13.0	0.0
-57.5°	362.5	243.2	144.1	76.8	30.8	12.2	0.0
-60°	325.3	217.6	125.5	68.2	25.6	11.4	0.0
-62.5°	289.9	190.4	111.5	59.0	23.8	10.5	0.0
-65°	252.4	161.6	96.6	49.3	21.9	9.7	0.0
-67.5°	212.9	135.3	81.0	39.1	19.9	8.8	0.0
-70°	171.6	111.8	64.5	28.6	17.8	7.9	0.0
-72.5°	137.2	87.3	47.4	23.8	15.7	6.9	0.0
-75°	102.8	61.9	29.7	20.5	13.6	6.0	0.0
-77.5°	67.3	35.8	22.8	17.2	11.4	5.0	0.0
-80°	30.9	22.8	18.3	13.8	9.2	4.0	0.0
-82.5°	20.5	17.2	13.8	10.3	6.9	3.0	0.0
-85°	13.7	11.5	9.2	6.9	4.6	2.0	0.0
-87.5°	6.9	5.7	4.6	3.5	2.3	1.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)