

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: P627491 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4E-722-U-VWR-XX**

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-08
Report Number: P627491 (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-722-U-VWR-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N88
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

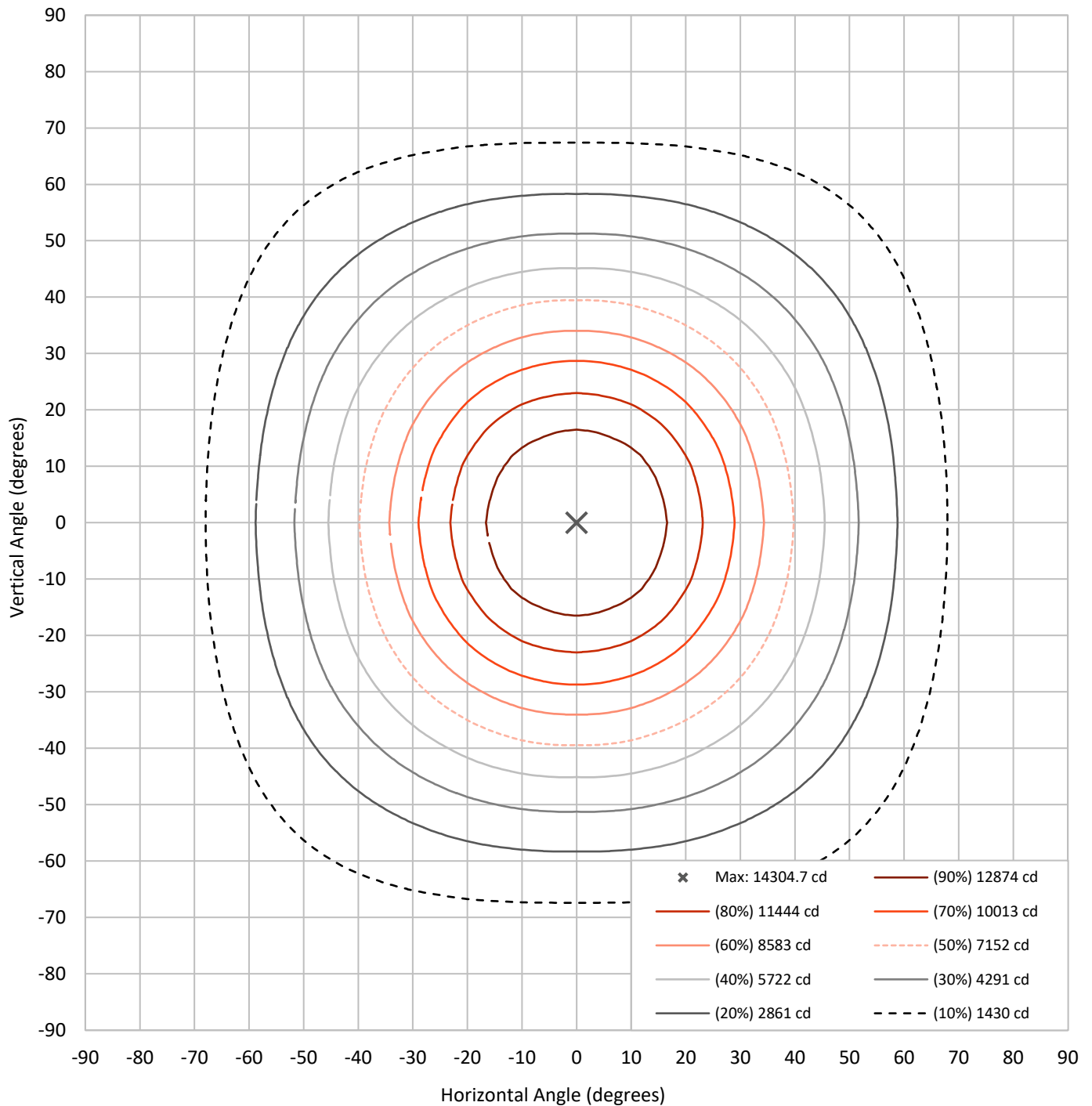
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25854.5 lumens	Max Intensity:	14304.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	101.0 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:	15163.8 lumens	Field Lumens:	24647.9 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		



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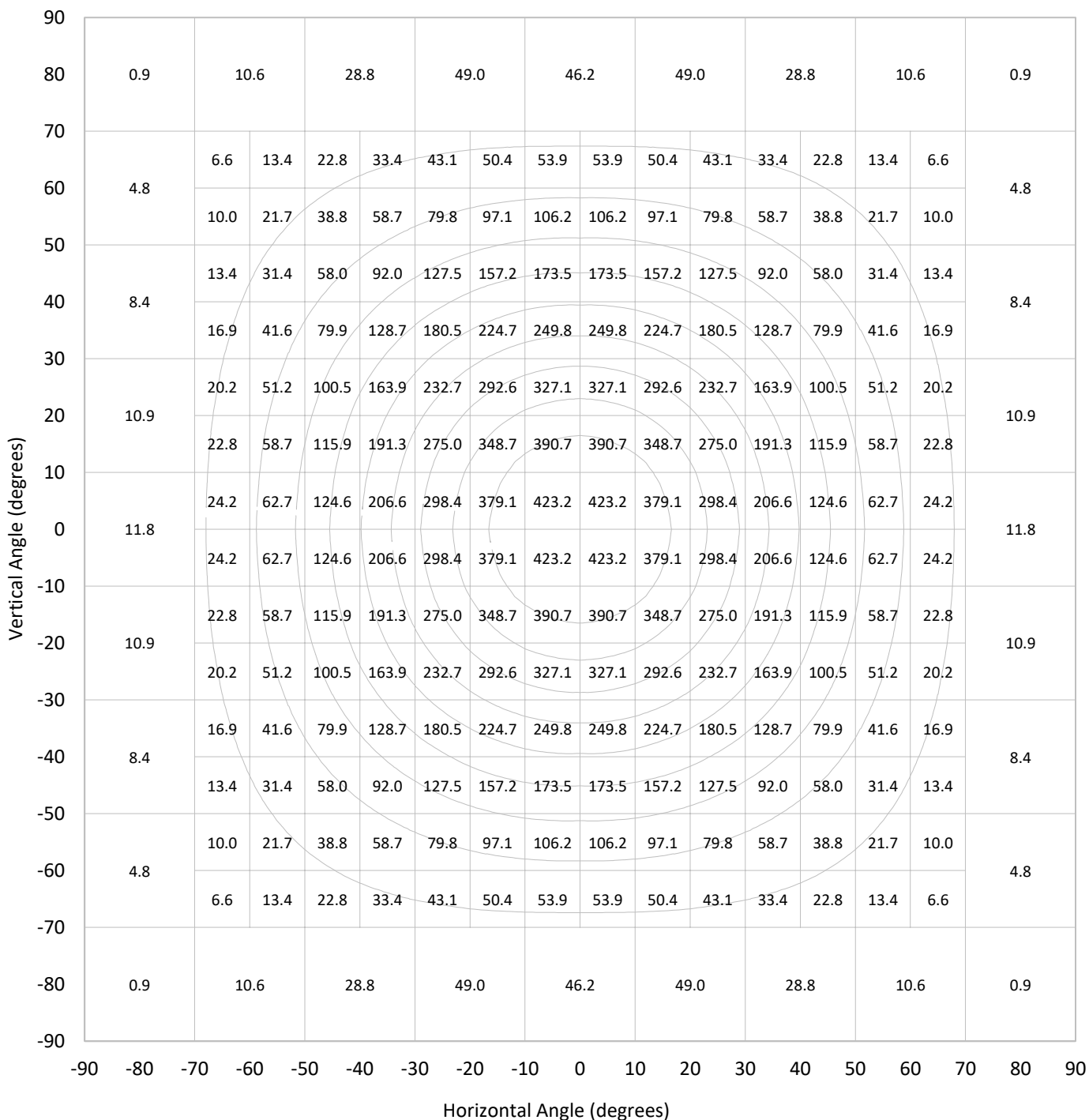
Iso-Candela Plot





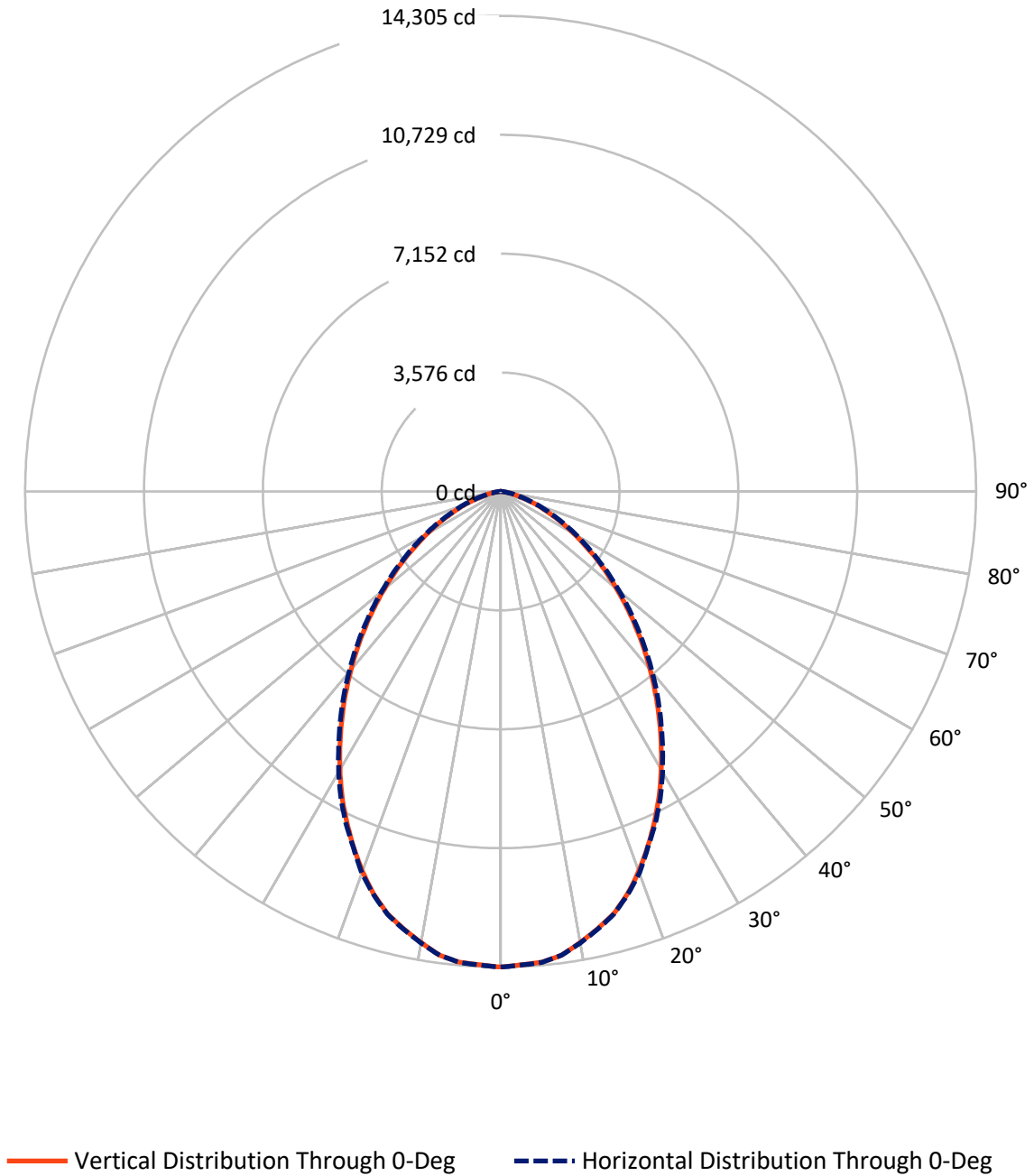
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Lumen Table



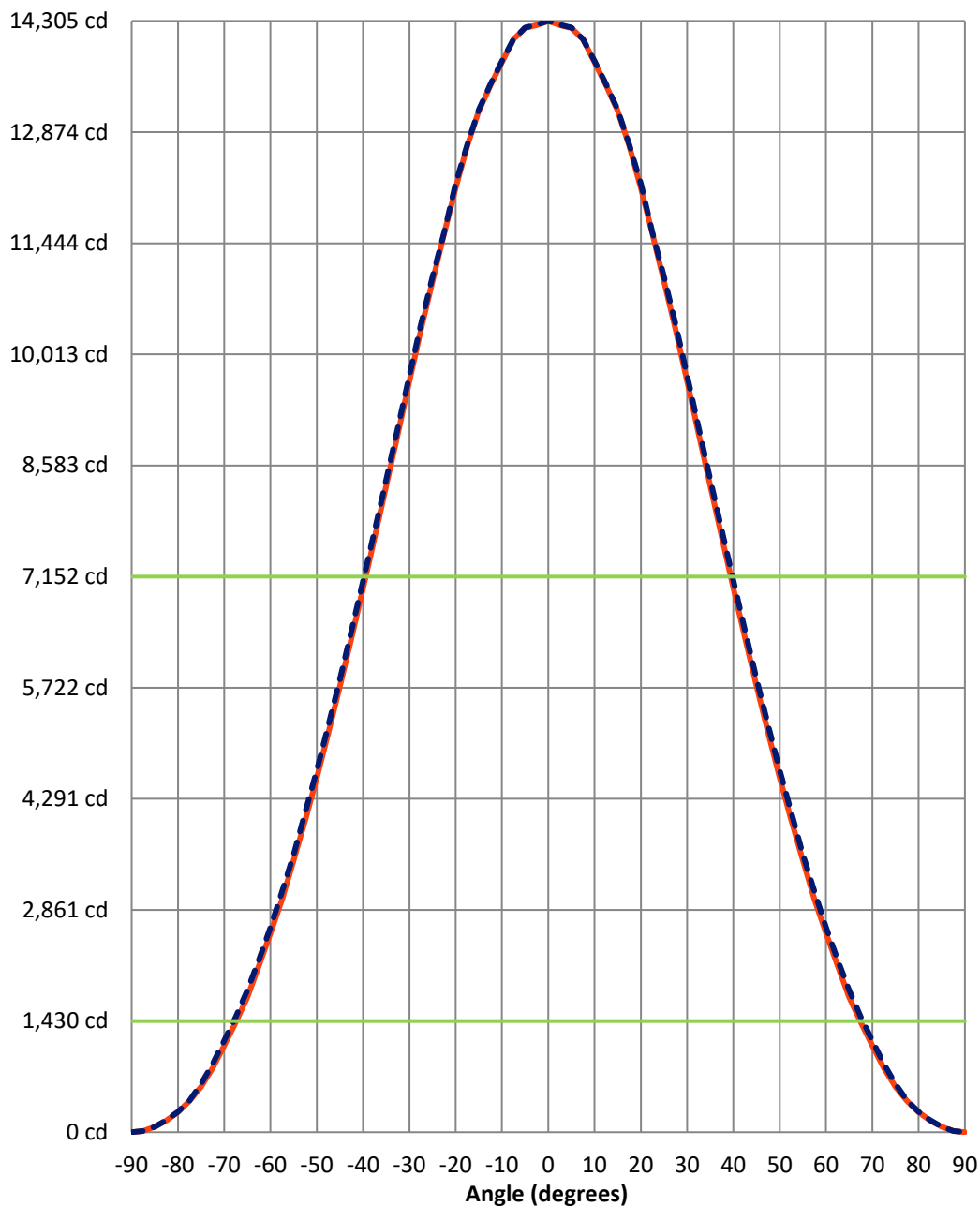
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 79.6°
 V Angle: 78.9°
 Lumens: 15163.8
 Efficiency: 58.7%

Field:
 H Angle: 135.9°
 V Angle: 134.8°
 Lumens: 24647.9
 Efficiency: 95.3%

Spill:
 Lumens: 1206.6
 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	2.8	3.7	4.6	5.5	6.4	7.3	8.2	9.0
85°	0.0	1.6	3.7	5.6	7.4	9.3	11.1	12.9	14.6	16.4	18.1
82.5°	0.0	2.4	5.6	8.4	11.1	13.9	16.6	19.3	24.1	38.0	51.3
80°	0.0	3.2	7.4	11.1	14.8	18.4	24.9	44.4	63.2	81.2	98.5
77.5°	0.0	4.0	9.2	13.9	18.4	28.9	54.4	79.0	102.1	124.2	151.7
75°	0.0	4.8	11.0	16.6	24.0	50.1	83.1	113.3	142.1	181.8	224.0
72.5°	0.0	5.6	12.7	19.3	38.3	70.6	111.0	150.1	195.4	243.7	294.9
70°	0.0	6.4	14.4	23.1	52.2	90.5	138.8	194.3	247.6	304.5	371.1
67.5°	0.0	7.1	16.1	31.6	65.5	109.5	172.2	237.4	298.7	370.6	446.8
65°	0.0	7.8	17.7	39.8	78.2	130.7	204.2	279.4	353.8	434.6	517.7
62.5°	0.0	8.5	19.2	47.7	90.2	154.0	234.5	323.2	407.1	495.9	581.2
60°	0.0	9.2	20.7	55.1	101.5	176.0	263.1	366.8	458.4	553.2	643.7
57.5°	0.0	9.8	24.9	62.1	116.6	196.7	293.2	407.3	509.0	609.5	703.0
55°	0.0	10.5	28.9	68.6	130.9	216.0	321.7	442.4	558.7	663.9	759.9
52.5°	0.0	11.1	32.8	74.6	144.3	234.2	348.1	478.8	607.3	713.9	815.3
50°	0.0	11.7	36.6	80.1	156.6	253.6	372.3	513.4	653.4	762.5	878.9
47.5°	0.0	12.2	40.2	85.8	167.8	271.3	395.0	545.6	695.2	809.5	941.1
45°	0.0	12.7	43.6	93.3	177.9	287.3	420.2	575.2	727.7	862.7	1000.7
42.5°	0.0	13.2	46.8	100.0	186.9	301.5	443.3	602.5	758.9	913.7	1070.9
40°	0.0	13.6	49.8	106.9	195.8	314.0	464.3	628.4	791.2	961.4	1139.2
37.5°	0.0	14.1	52.7	113.8	204.7	324.5	483.0	652.8	827.5	1006.6	1203.3
35°	0.0	14.4	55.3	120.1	212.4	336.8	499.6	675.9	862.9	1058.7	1267.8
32.5°	0.0	14.8	57.7	126.0	218.8	349.1	514.9	697.5	897.3	1108.8	1336.3
30°	0.0	15.1	59.9	131.3	223.9	359.5	530.9	719.1	930.4	1156.7	1400.2
27.5°	0.0	15.4	61.9	136.2	231.6	368.2	545.2	744.2	964.5	1202.1	1459.5
25°	0.0	15.6	63.7	140.5	238.8	375.1	557.8	767.5	1000.1	1248.4	1514.4
22.5°	0.0	15.8	65.3	144.4	245.1	382.0	568.6	788.8	1032.8	1292.2	1572.8
20°	0.0	16.0	66.7	147.7	250.5	391.5	577.5	808.1	1062.5	1331.3	1625.2
17.5°	0.0	16.1	67.8	150.5	255.1	399.2	588.6	824.9	1089.0	1365.6	1671.4
15°	0.0	16.2	68.7	152.7	258.8	405.3	600.2	841.1	1112.0	1395.1	1711.2
12.5°	0.0	16.3	69.4	154.5	261.6	409.6	609.6	856.2	1132.8	1419.5	1744.6
10°	0.0	16.3	69.9	155.7	263.5	412.3	616.8	867.9	1150.8	1442.4	1772.7
7.5°	0.0	16.3	70.2	156.4	264.6	413.4	621.6	876.0	1164.6	1460.9	1797.0
5°	0.0	16.3	70.2	156.6	264.8	412.9	624.2	880.7	1174.1	1474.3	1814.4
2.5°	0.0	16.2	70.1	156.3	264.2	410.9	624.3	881.8	1179.1	1482.5	1824.8
0°	0.0	16.1	69.7	155.5	262.7	407.5	621.9	879.3	1179.5	1485.2	1828.3
-2.5°	0.0	16.2	70.1	156.3	264.2	410.9	624.3	881.8	1179.1	1482.5	1824.8
-5°	0.0	16.3	70.2	156.6	264.8	412.9	624.2	880.7	1174.1	1474.3	1814.4
-7.5°	0.0	16.3	70.2	156.4	264.6	413.4	621.6	876.0	1164.6	1460.9	1797.0
-10°	0.0	16.3	69.9	155.7	263.5	412.3	616.8	867.9	1150.8	1442.4	1772.7
-12.5°	0.0	16.3	69.4	154.5	261.6	409.6	609.6	856.2	1132.8	1419.5	1744.6
-15°	0.0	16.2	68.7	152.7	258.8	405.3	600.2	841.1	1112.0	1395.1	1711.2
-17.5°	0.0	16.1	67.8	150.5	255.1	399.2	588.6	824.9	1089.0	1365.6	1671.4
-20°	0.0	16.0	66.7	147.7	250.5	391.5	577.5	808.1	1062.5	1331.3	1625.2

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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	15.8	65.3	144.4	245.1	382.0	568.6	788.8	1032.8	1292.2	1572.8
-25°	0.0	15.6	63.7	140.5	238.8	375.1	557.8	767.5	1000.1	1248.4	1514.4
-27.5°	0.0	15.4	61.9	136.2	231.6	368.2	545.2	744.2	964.5	1202.1	1459.5
-30°	0.0	15.1	59.9	131.3	223.9	359.5	530.9	719.1	930.4	1156.7	1400.2
-32.5°	0.0	14.8	57.7	126.0	218.8	349.1	514.9	697.5	897.3	1108.8	1336.3
-35°	0.0	14.4	55.3	120.1	212.4	336.8	499.6	675.9	862.9	1058.7	1267.8
-37.5°	0.0	14.1	52.7	113.8	204.7	324.5	483.0	652.8	827.5	1006.6	1203.3
-40°	0.0	13.6	49.8	106.9	195.8	314.0	464.3	628.4	791.2	961.4	1139.2
-42.5°	0.0	13.2	46.8	100.0	186.9	301.5	443.3	602.5	758.9	913.7	1070.9
-45°	0.0	12.7	43.6	93.3	177.9	287.3	420.2	575.2	727.7	862.7	1000.7
-47.5°	0.0	12.2	40.2	85.8	167.8	271.3	395.0	545.6	695.2	809.5	941.1
-50°	0.0	11.7	36.6	80.1	156.6	253.6	372.3	513.4	653.4	762.5	878.9
-52.5°	0.0	11.1	32.8	74.6	144.3	234.2	348.1	478.8	607.3	713.9	815.3
-55°	0.0	10.5	28.9	68.6	130.9	216.0	321.7	442.4	558.7	663.9	759.9
-57.5°	0.0	9.8	24.9	62.1	116.6	196.7	293.2	407.3	509.0	609.5	703.0
-60°	0.0	9.2	20.7	55.1	101.5	176.0	263.1	366.8	458.4	553.2	643.7
-62.5°	0.0	8.5	19.2	47.7	90.2	154.0	234.5	323.2	407.1	495.9	581.2
-65°	0.0	7.8	17.7	39.8	78.2	130.7	204.2	279.4	353.8	434.6	517.7
-67.5°	0.0	7.1	16.1	31.6	65.5	109.5	172.2	237.4	298.7	370.6	446.8
-70°	0.0	6.4	14.4	23.1	52.2	90.5	138.8	194.3	247.6	304.5	371.1
-72.5°	0.0	5.6	12.7	19.3	38.3	70.6	111.0	150.1	195.4	243.7	294.9
-75°	0.0	4.8	11.0	16.6	24.0	50.1	83.1	113.3	142.1	181.8	224.0
-77.5°	0.0	4.0	9.2	13.9	18.4	28.9	54.4	79.0	102.1	124.2	151.7
-80°	0.0	3.2	7.4	11.1	14.8	18.4	24.9	44.4	63.2	81.2	98.5
-82.5°	0.0	2.4	5.6	8.4	11.1	13.9	16.6	19.3	24.1	38.0	51.3
-85°	0.0	1.6	3.7	5.6	7.4	9.3	11.1	12.9	14.6	16.4	18.1
-87.5°	0.0	0.8	1.9	2.8	3.7	4.6	5.5	6.4	7.3	8.2	9.0
-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-722-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°	10.5	12.0	13.7	15.4	15.5	15.5	15.4	15.1	15.8	16.4	17.0
85°	20.9	24.0	33.4	42.4	46.8	49.4	50.6	50.4	58.7	68.2	78.5
82.5°	65.2	78.6	91.5	103.7	106.8	106.9	105.8	106.2	125.5	147.6	170.3
80°	116.1	133.2	155.8	175.9	184.6	189.1	191.2	190.8	215.2	247.7	281.9
77.5°	184.3	213.0	237.9	259.2	270.7	280.8	289.0	295.3	326.7	367.8	408.6
75°	261.9	293.4	324.7	352.0	371.1	385.2	398.4	419.6	460.7	508.6	550.3
72.5°	343.8	384.0	418.9	448.5	475.3	503.7	535.5	570.4	613.7	661.6	705.2
70°	431.3	475.5	512.0	547.7	584.1	626.7	674.4	721.4	769.8	822.6	873.5
67.5°	516.9	559.5	602.5	647.5	702.1	759.1	815.5	880.3	946.6	1005.3	1057.8
65°	591.2	641.2	695.0	756.0	823.5	895.9	971.2	1048.9	1133.0	1203.4	1267.7
62.5°	662.2	722.3	787.7	863.7	949.7	1035.5	1131.6	1228.9	1323.5	1406.5	1483.3
60°	727.6	800.4	883.1	976.4	1076.8	1190.8	1300.2	1410.8	1514.6	1608.6	1705.7
57.5°	791.2	882.8	982.1	1094.1	1221.0	1349.1	1477.7	1596.7	1714.2	1828.8	1938.5
55°	858.5	969.0	1087.1	1224.5	1367.6	1519.1	1657.6	1790.4	1919.8	2058.9	2191.0
52.5°	932.6	1056.0	1203.8	1357.6	1522.9	1685.5	1837.7	1989.0	2145.4	2302.8	2474.8
50°	1004.2	1158.0	1319.9	1498.8	1677.4	1851.6	2026.1	2200.3	2387.8	2580.7	2775.6
47.5°	1087.7	1255.5	1446.9	1638.7	1833.9	2027.7	2222.2	2432.7	2645.6	2869.4	3085.1
45°	1172.3	1361.0	1567.1	1784.0	1995.1	2209.7	2437.0	2669.8	2919.5	3165.6	3425.0
42.5°	1252.4	1465.7	1693.0	1927.2	2161.9	2401.7	2651.8	2923.7	3196.5	3480.4	3765.5
40°	1341.2	1565.4	1815.9	2073.9	2328.6	2594.4	2880.2	3174.7	3483.4	3795.6	4105.1
37.5°	1426.5	1673.0	1936.3	2214.1	2499.9	2792.0	3102.3	3436.6	3771.4	4107.3	4448.7
35°	1506.5	1775.0	2060.2	2355.1	2658.2	2990.4	3337.4	3694.2	4057.0	4420.3	4787.5
32.5°	1588.7	1871.1	2178.6	2494.2	2828.3	3184.5	3564.5	3951.2	4337.5	4725.5	5127.4
30°	1671.1	1972.0	2293.3	2625.8	2991.2	3379.4	3787.7	4197.3	4606.0	5032.9	5461.2
27.5°	1749.0	2067.8	2406.0	2761.8	3147.3	3559.8	3993.4	4432.2	4872.9	5326.7	5783.6
25°	1820.7	2158.4	2510.6	2892.6	3301.2	3733.4	4185.1	4643.0	5126.2	5611.9	6089.1
22.5°	1890.6	2241.7	2607.5	3013.2	3440.7	3894.5	4365.0	4848.4	5353.4	5875.0	6368.8
20°	1957.9	2321.0	2701.8	3122.5	3565.7	4039.7	4528.4	5034.7	5564.5	6100.0	6631.1
17.5°	2017.6	2391.5	2789.6	3224.6	3684.9	4172.3	4675.7	5198.6	5752.0	6307.1	6869.9
15°	2069.6	2452.8	2865.6	3313.7	3790.3	4292.9	4812.4	5350.2	5917.9	6495.8	7080.9
12.5°	2113.6	2504.8	2929.6	3389.4	3879.7	4396.3	4929.9	5486.5	6069.5	6663.7	7265.7
10°	2149.4	2547.1	2981.4	3451.4	3952.7	4481.8	5026.6	5598.9	6199.4	6806.5	7421.2
7.5°	2179.8	2582.4	3022.4	3499.1	4009.0	4548.8	5101.9	5686.6	6302.8	6917.9	7546.0
5°	2201.9	2611.0	3060.2	3539.2	4058.0	4601.1	5158.9	5749.1	6378.5	6997.1	7636.6
2.5°	2215.3	2629.6	3085.8	3565.1	4096.4	4640.2	5209.7	5804.3	6434.0	7060.1	7704.7
0°	2219.7	2637.9	3099.0	3576.2	4117.7	4659.2	5238.3	5833.4	6460.7	7098.7	7747.5
-2.5°	2215.3	2629.6	3085.8	3565.1	4096.4	4640.2	5209.7	5804.3	6434.0	7060.1	7704.7
-5°	2201.9	2611.0	3060.2	3539.2	4058.0	4601.1	5158.9	5749.1	6378.5	6997.1	7636.6
-7.5°	2179.8	2582.4	3022.4	3499.1	4009.0	4548.8	5101.9	5686.6	6302.8	6917.9	7546.0
-10°	2149.4	2547.1	2981.4	3451.4	3952.7	4481.8	5026.6	5598.9	6199.4	6806.5	7421.2
-12.5°	2113.6	2504.8	2929.6	3389.4	3879.7	4396.3	4929.9	5486.5	6069.5	6663.7	7265.7
-15°	2069.6	2452.8	2865.6	3313.7	3790.3	4292.9	4812.4	5350.2	5917.9	6495.8	7080.9
-17.5°	2017.6	2391.5	2789.6	3224.6	3684.9	4172.3	4675.7	5198.6	5752.0	6307.1	6869.9
-20°	1957.9	2321.0	2701.8	3122.5	3565.7	4039.7	4528.4	5034.7	5564.5	6100.0	6631.1

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Scaled Data Report



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CATALOG NUMBER: GFLD-SA4E-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°	1890.6	2241.7	2607.5	3013.2	3440.7	3894.5	4365.0	4848.4	5353.4	5875.0	6368.8
-25°	1820.7	2158.4	2510.6	2892.6	3301.2	3733.4	4185.1	4643.0	5126.2	5611.9	6089.1
-27.5°	1749.0	2067.8	2406.0	2761.8	3147.3	3559.8	3993.4	4432.2	4872.9	5326.7	5783.6
-30°	1671.1	1972.0	2293.3	2625.8	2991.2	3379.4	3787.7	4197.3	4606.0	5032.9	5461.2
-32.5°	1588.7	1871.1	2178.6	2494.2	2828.3	3184.5	3564.5	3951.2	4337.5	4725.5	5127.4
-35°	1506.5	1775.0	2060.2	2355.1	2658.2	2990.4	3337.4	3694.2	4057.0	4420.3	4787.5
-37.5°	1426.5	1673.0	1936.3	2214.1	2499.9	2792.0	3102.3	3436.6	3771.4	4107.3	4448.7
-40°	1341.2	1565.4	1815.9	2073.9	2328.6	2594.4	2880.2	3174.7	3483.4	3795.6	4105.1
-42.5°	1252.4	1465.7	1693.0	1927.2	2161.9	2401.7	2651.8	2923.7	3196.5	3480.4	3765.5
-45°	1172.3	1361.0	1567.1	1784.0	1995.1	2209.7	2437.0	2669.8	2919.5	3165.6	3425.0
-47.5°	1087.7	1255.5	1446.9	1638.7	1833.9	2027.7	2222.2	2432.7	2645.6	2869.4	3085.1
-50°	1004.2	1158.0	1319.9	1498.8	1677.4	1851.6	2026.1	2200.3	2387.8	2580.7	2775.6
-52.5°	932.6	1056.0	1203.8	1357.6	1522.9	1685.5	1837.7	1989.0	2145.4	2302.8	2474.8
-55°	858.5	969.0	1087.1	1224.5	1367.6	1519.1	1657.6	1790.4	1919.8	2058.9	2191.0
-57.5°	791.2	882.8	982.1	1094.1	1221.0	1349.1	1477.7	1596.7	1714.2	1828.8	1938.5
-60°	727.6	800.4	883.1	976.4	1076.8	1190.8	1300.2	1410.8	1514.6	1608.6	1705.7
-62.5°	662.2	722.3	787.7	863.7	949.7	1035.5	1131.6	1228.9	1323.5	1406.5	1483.3
-65°	591.2	641.2	695.0	756.0	823.5	895.9	971.2	1048.9	1133.0	1203.4	1267.7
-67.5°	516.9	559.5	602.5	647.5	702.1	759.1	815.5	880.3	946.6	1005.3	1057.8
-70°	431.3	475.5	512.0	547.7	584.1	626.7	674.4	721.4	769.8	822.6	873.5
-72.5°	343.8	384.0	418.9	448.5	475.3	503.7	535.5	570.4	613.7	661.6	705.2
-75°	261.9	293.4	324.7	352.0	371.1	385.2	398.4	419.6	460.7	508.6	550.3
-77.5°	184.3	213.0	237.9	259.2	270.7	280.8	289.0	295.3	326.7	367.8	408.6
-80°	116.1	133.2	155.8	175.9	184.6	189.1	191.2	190.8	215.2	247.7	281.9
-82.5°	65.2	78.6	91.5	103.7	106.8	106.9	105.8	106.2	125.5	147.6	170.3
-85°	20.9	24.0	33.4	42.4	46.8	49.4	50.6	50.4	58.7	68.2	78.5
-87.5°	10.5	12.0	13.7	15.4	15.5	15.5	15.4	15.1	15.8	16.4	17.0
-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: P627491 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-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°	17.5	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.7	19.6	18.5
85°	89.6	95.9	101.8	107.4	112.8	117.9	122.7	127.2	131.3	119.9	107.3
82.5°	193.4	208.9	223.6	238.3	252.9	256.6	257.7	257.2	255.2	235.2	213.1
80°	315.7	342.0	366.8	391.3	415.6	418.3	415.6	410.6	403.5	377.3	347.6
77.5°	449.2	482.3	511.3	537.8	562.0	566.5	565.9	564.6	562.7	535.9	503.5
75°	586.1	618.5	649.7	676.2	698.4	708.5	713.5	717.0	718.9	699.7	674.5
72.5°	744.7	778.4	805.9	831.7	853.5	869.3	880.6	889.2	895.0	889.2	878.9
70°	916.9	953.0	983.4	1012.5	1042.1	1065.8	1083.7	1096.7	1105.0	1110.4	1114.2
67.5°	1110.8	1159.3	1201.6	1237.7	1273.5	1307.0	1334.5	1357.0	1374.4	1389.2	1400.6
65°	1329.2	1391.2	1446.1	1496.6	1542.8	1591.5	1631.4	1664.9	1691.8	1714.1	1732.0
62.5°	1558.8	1634.8	1705.3	1773.8	1840.9	1906.9	1957.7	2003.8	2044.9	2080.2	2108.3
60°	1797.4	1883.8	1978.4	2068.8	2152.0	2228.0	2303.5	2368.8	2424.7	2471.2	2508.6
57.5°	2053.9	2165.7	2276.3	2388.6	2494.7	2593.9	2686.8	2768.8	2838.0	2894.9	2942.6
55°	2331.0	2470.8	2599.1	2740.7	2877.5	3002.1	3111.8	3208.1	3291.5	3361.3	3420.6
52.5°	2635.6	2805.5	2972.3	3133.4	3288.7	3433.2	3564.5	3676.7	3776.6	3862.2	3930.4
50°	2969.0	3163.3	3356.6	3535.8	3714.3	3880.8	4031.3	4161.5	4277.7	4378.3	4457.4
47.5°	3317.6	3538.8	3754.6	3959.8	4157.3	4342.4	4505.3	4653.8	4798.7	4916.8	5010.2
45°	3679.6	3927.8	4165.9	4400.5	4618.0	4825.4	5026.4	5211.3	5359.9	5490.1	5599.4
42.5°	4046.0	4322.9	4589.5	4845.4	5084.5	5324.4	5550.6	5752.6	5922.1	6070.2	6194.4
40°	4417.2	4720.3	5014.1	5293.0	5566.5	5828.0	6072.6	6285.7	6476.9	6652.6	6799.1
37.5°	4786.5	5119.9	5445.4	5757.9	6059.0	6342.3	6606.6	6847.4	7063.1	7263.3	7425.9
35°	5157.4	5523.3	5879.5	6223.5	6552.3	6865.0	7154.3	7428.4	7682.7	7885.4	8051.7
32.5°	5526.9	5920.3	6308.0	6686.6	7046.5	7383.6	7697.1	8000.0	8261.5	8484.4	8675.6
30°	5884.5	6310.6	6732.8	7143.4	7532.1	7897.4	8244.5	8564.8	8846.0	9089.8	9304.2
27.5°	6235.4	6693.1	7146.1	7584.7	8005.0	8402.0	8780.9	9128.1	9435.0	9699.9	9926.1
25°	6567.0	7059.0	7541.9	8006.9	8455.9	8893.7	9302.8	9681.8	10009.6	10300.4	10532.8
22.5°	6883.8	7408.5	7915.9	8405.0	8885.4	9357.3	9805.2	10200.8	10548.3	10852.3	11109.5
20°	7179.0	7741.2	8260.3	8777.7	9283.6	9787.6	10268.4	10685.8	11053.5	11377.1	11660.6
17.5°	7454.9	8031.6	8578.2	9129.0	9662.3	10190.9	10679.4	11126.8	11523.5	11867.2	12164.1
15°	7688.5	8270.9	8867.8	9455.9	10018.2	10553.5	11041.6	11508.9	11949.3	12321.1	12622.1
12.5°	7877.6	8483.3	9106.0	9730.4	10325.0	10859.6	11370.6	11844.7	12307.2	12724.8	13001.6
10°	8038.8	8662.5	9305.4	9942.1	10544.7	11110.4	11665.9	12167.1	12621.7	12995.6	13304.7
7.5°	8178.2	8820.6	9473.6	10111.3	10711.9	11296.3	11868.2	12400.6	12859.5	13211.7	13487.4
5°	8281.0	8938.7	9604.2	10247.8	10856.8	11443.1	12017.6	12543.3	12991.3	13349.7	13650.4
2.5°	8354.5	9018.4	9688.7	10333.2	10955.7	11543.5	12132.4	12664.0	13097.7	13426.1	13714.0
0°	8401.6	9066.4	9742.0	10401.5	11012.7	11581.0	12213.7	12712.3	13162.7	13489.8	13790.0
-2.5°	8354.5	9018.4	9688.7	10333.2	10955.7	11543.5	12132.4	12664.0	13097.7	13426.1	13714.0
-5°	8281.0	8938.7	9604.2	10247.8	10856.8	11443.1	12017.6	12543.3	12991.3	13349.7	13650.4
-7.5°	8178.2	8820.6	9473.6	10111.3	10711.9	11296.3	11868.2	12400.6	12859.5	13211.7	13487.4
-10°	8038.8	8662.5	9305.4	9942.1	10544.7	11110.4	11665.9	12167.1	12621.7	12995.6	13304.7
-12.5°	7877.6	8483.3	9106.0	9730.4	10325.0	10859.6	11370.6	11844.7	12307.2	12724.8	13001.6
-15°	7688.5	8270.9	8867.8	9455.9	10018.2	10553.5	11041.6	11508.9	11949.3	12321.1	12622.1
-17.5°	7454.9	8031.6	8578.2	9129.0	9662.3	10190.9	10679.4	11126.8	11523.5	11867.2	12164.1
-20°	7179.0	7741.2	8260.3	8777.7	9283.6	9787.6	10268.4	10685.8	11053.5	11377.1	11660.6



REPORT NUMBER: P627491 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-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°	6883.8	7408.5	7915.9	8405.0	8885.4	9357.3	9805.2	10200.8	10548.3	10852.3	11109.5
-25°	6567.0	7059.0	7541.9	8006.9	8455.9	8893.7	9302.8	9681.8	10009.6	10300.4	10532.8
-27.5°	6235.4	6693.1	7146.1	7584.7	8005.0	8402.0	8780.9	9128.1	9435.0	9699.9	9926.1
-30°	5884.5	6310.6	6732.8	7143.4	7532.1	7897.4	8244.5	8564.8	8846.0	9089.8	9304.2
-32.5°	5526.9	5920.3	6308.0	6686.6	7046.5	7383.6	7697.1	8000.0	8261.5	8484.4	8675.6
-35°	5157.4	5523.3	5879.5	6223.5	6552.3	6865.0	7154.3	7428.4	7682.7	7885.4	8051.7
-37.5°	4786.5	5119.9	5445.4	5757.9	6059.0	6342.3	6606.6	6847.4	7063.1	7263.3	7425.9
-40°	4417.2	4720.3	5014.1	5293.0	5566.5	5828.0	6072.6	6285.7	6476.9	6652.6	6799.1
-42.5°	4046.0	4322.9	4589.5	4845.4	5084.5	5324.4	5550.6	5752.6	5922.1	6070.2	6194.4
-45°	3679.6	3927.8	4165.9	4400.5	4618.0	4825.4	5026.4	5211.3	5359.9	5490.1	5599.4
-47.5°	3317.6	3538.8	3754.6	3959.8	4157.3	4342.4	4505.3	4653.8	4798.7	4916.8	5010.2
-50°	2969.0	3163.3	3356.6	3535.8	3714.3	3880.8	4031.3	4161.5	4277.7	4378.3	4457.4
-52.5°	2635.6	2805.5	2972.3	3133.4	3288.7	3433.2	3564.5	3676.7	3776.6	3862.2	3930.4
-55°	2331.0	2470.8	2599.1	2740.7	2877.5	3002.1	3111.8	3208.1	3291.5	3361.3	3420.6
-57.5°	2053.9	2165.7	2276.3	2388.6	2494.7	2593.9	2686.8	2768.8	2838.0	2894.9	2942.6
-60°	1797.4	1883.8	1978.4	2068.8	2152.0	2228.0	2303.5	2368.8	2424.7	2471.2	2508.6
-62.5°	1558.8	1634.8	1705.3	1773.8	1840.9	1906.9	1957.7	2003.8	2044.9	2080.2	2108.3
-65°	1329.2	1391.2	1446.1	1496.6	1542.8	1591.5	1631.4	1664.9	1691.8	1714.1	1732.0
-67.5°	1110.8	1159.3	1201.6	1237.7	1273.5	1307.0	1334.5	1357.0	1374.4	1389.2	1400.6
-70°	916.9	953.0	983.4	1012.5	1042.1	1065.8	1083.7	1096.7	1105.0	1110.4	1114.2
-72.5°	744.7	778.4	805.9	831.7	853.5	869.3	880.6	889.2	895.0	889.2	878.9
-75°	586.1	618.5	649.7	676.2	698.4	708.5	713.5	717.0	718.9	699.7	674.5
-77.5°	449.2	482.3	511.3	537.8	562.0	566.5	565.9	564.6	562.7	535.9	503.5
-80°	315.7	342.0	366.8	391.3	415.6	418.3	415.6	410.6	403.5	377.3	347.6
-82.5°	193.4	208.9	223.6	238.3	252.9	256.6	257.7	257.2	255.2	235.2	213.1
-85°	89.6	95.9	101.8	107.4	112.8	117.9	122.7	127.2	131.3	119.9	107.3
-87.5°	17.5	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.7	19.6	18.5
-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: P627491 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-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°	17.3	16.0	16.1	16.1	16.1	16.0	17.3	18.5	19.6	20.7	20.4
85°	94.0	80.0	75.0	69.7	75.0	80.0	94.0	107.3	119.9	131.3	127.2
82.5°	189.8	165.7	158.0	150.1	158.0	165.7	189.8	213.1	235.2	255.2	257.2
80°	316.2	283.5	270.6	257.4	270.6	283.5	316.2	347.6	377.3	403.5	410.6
77.5°	469.3	433.3	417.9	402.1	417.9	433.3	469.3	503.5	535.9	562.7	564.6
75°	648.0	619.8	602.7	584.4	602.7	619.8	648.0	674.5	699.7	718.9	717.0
72.5°	867.2	853.4	840.9	825.7	840.9	853.4	867.2	878.9	889.2	895.0	889.2
70°	1115.4	1113.7	1115.9	1115.2	1115.9	1113.7	1115.4	1114.2	1110.4	1105.0	1096.7
67.5°	1406.4	1406.8	1412.8	1415.5	1412.8	1406.8	1406.4	1400.6	1389.2	1374.4	1357.0
65°	1743.0	1747.1	1745.6	1737.2	1745.6	1747.1	1743.0	1732.0	1714.1	1691.8	1664.9
62.5°	2128.2	2139.8	2146.1	2144.6	2146.1	2139.8	2128.2	2108.3	2080.2	2044.9	2003.8
60°	2536.5	2554.7	2563.8	2562.8	2563.8	2554.7	2536.5	2508.6	2471.2	2424.7	2368.8
57.5°	2978.1	3001.4	3006.8	2997.1	3006.8	3001.4	2978.1	2942.6	2894.9	2838.0	2768.8
55°	3465.3	3495.1	3506.6	3501.1	3506.6	3495.1	3465.3	3420.6	3361.3	3291.5	3208.1
52.5°	3980.5	4012.6	4024.0	4015.8	4024.0	4012.6	3980.5	3930.4	3862.2	3776.6	3676.7
50°	4515.5	4554.5	4570.2	4562.7	4570.2	4554.5	4515.5	4457.4	4378.3	4277.7	4161.5
47.5°	5083.4	5135.3	5155.5	5141.8	5155.5	5135.3	5083.4	5010.2	4916.8	4798.7	4653.8
45°	5681.0	5734.8	5755.7	5742.3	5755.7	5734.8	5681.0	5599.4	5490.1	5359.9	5211.3
42.5°	6289.3	6359.2	6388.8	6364.2	6388.8	6359.2	6289.3	6194.4	6070.2	5922.1	5752.6
40°	6908.4	6984.2	7019.2	7002.2	7019.2	6984.2	6908.4	6799.1	6652.6	6476.9	6285.7
37.5°	7543.3	7618.8	7655.9	7656.3	7655.9	7618.8	7543.3	7425.9	7263.3	7063.1	6847.4
35°	8180.6	8272.0	8323.7	8321.2	8323.7	8272.0	8180.6	8051.7	7885.4	7682.7	7428.4
32.5°	8826.8	8925.7	8978.6	8986.0	8978.6	8925.7	8826.8	8675.6	8484.4	8261.5	8000.0
30°	9471.8	9580.6	9641.8	9666.9	9641.8	9580.6	9471.8	9304.2	9089.8	8846.0	8564.8
27.5°	10097.5	10231.4	10323.7	10331.8	10323.7	10231.4	10097.5	9926.1	9699.9	9435.0	9128.1
25°	10703.4	10839.7	10934.4	10953.7	10934.4	10839.7	10703.4	10532.8	10300.4	10009.6	9681.8
22.5°	11300.6	11443.1	11530.5	11564.9	11530.5	11443.1	11300.6	11109.5	10852.3	10548.3	10200.8
20°	11870.6	12025.0	12117.8	12154.7	12117.8	12025.0	11870.6	11660.6	11377.1	11053.5	10685.8
17.5°	12386.4	12549.5	12664.1	12696.2	12664.1	12549.5	12386.4	12164.1	11867.2	11523.5	11126.8
15°	12840.2	12995.0	13103.7	13146.6	13103.7	12995.0	12840.2	12622.1	12321.1	11949.3	11508.9
12.5°	13209.7	13348.1	13433.2	13473.7	13433.2	13348.1	13209.7	13001.6	12724.8	12307.2	11844.7
10°	13498.3	13637.1	13718.5	13773.9	13718.5	13637.1	13498.3	13304.7	12995.6	12621.7	12167.1
7.5°	13748.8	13891.0	13990.5	14068.8	13990.5	13891.0	13748.8	13487.4	13211.7	12859.5	12400.6
5°	13887.0	14124.7	14160.3	14213.6	14160.3	14124.7	13887.0	13650.4	13349.7	12991.3	12543.3
2.5°	13992.5	14161.0	14262.3	14251.1	14262.3	14161.0	13992.5	13714.0	13426.1	13097.7	12664.0
0°	14068.8	14218.9	14256.5	14304.7	14256.5	14218.9	14068.8	13790.0	13489.8	13162.7	12712.3
-2.5°	13992.5	14161.0	14262.3	14251.1	14262.3	14161.0	13992.5	13714.0	13426.1	13097.7	12664.0
-5°	13887.0	14124.7	14160.3	14213.6	14160.3	14124.7	13887.0	13650.4	13349.7	12991.3	12543.3
-7.5°	13748.8	13891.0	13990.5	14068.8	13990.5	13891.0	13748.8	13487.4	13211.7	12859.5	12400.6
-10°	13498.3	13637.1	13718.5	13773.9	13718.5	13637.1	13498.3	13304.7	12995.6	12621.7	12167.1
-12.5°	13209.7	13348.1	13433.2	13473.7	13433.2	13348.1	13209.7	13001.6	12724.8	12307.2	11844.7
-15°	12840.2	12995.0	13103.7	13146.6	13103.7	12995.0	12840.2	12622.1	12321.1	11949.3	11508.9
-17.5°	12386.4	12549.5	12664.1	12696.2	12664.1	12549.5	12386.4	12164.1	11867.2	11523.5	11126.8
-20°	11870.6	12025.0	12117.8	12154.7	12117.8	12025.0	11870.6	11660.6	11377.1	11053.5	10685.8



REPORT NUMBER: P627491 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-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°	11300.6	11443.1	11530.5	11564.9	11530.5	11443.1	11300.6	11109.5	10852.3	10548.3	10200.8
-25°	10703.4	10839.7	10934.4	10953.7	10934.4	10839.7	10703.4	10532.8	10300.4	10009.6	9681.8
-27.5°	10097.5	10231.4	10323.7	10331.8	10323.7	10231.4	10097.5	9926.1	9699.9	9435.0	9128.1
-30°	9471.8	9580.6	9641.8	9666.9	9641.8	9580.6	9471.8	9304.2	9089.8	8846.0	8564.8
-32.5°	8826.8	8925.7	8978.6	8986.0	8978.6	8925.7	8826.8	8675.6	8484.4	8261.5	8000.0
-35°	8180.6	8272.0	8323.7	8321.2	8323.7	8272.0	8180.6	8051.7	7885.4	7682.7	7428.4
-37.5°	7543.3	7618.8	7655.9	7656.3	7655.9	7618.8	7543.3	7425.9	7263.3	7063.1	6847.4
-40°	6908.4	6984.2	7019.2	7002.2	7019.2	6984.2	6908.4	6799.1	6652.6	6476.9	6285.7
-42.5°	6289.3	6359.2	6388.8	6364.2	6388.8	6359.2	6289.3	6194.4	6070.2	5922.1	5752.6
-45°	5681.0	5734.8	5755.7	5742.3	5755.7	5734.8	5681.0	5599.4	5490.1	5359.9	5211.3
-47.5°	5083.4	5135.3	5155.5	5141.8	5155.5	5135.3	5083.4	5010.2	4916.8	4798.7	4653.8
-50°	4515.5	4554.5	4570.2	4562.7	4570.2	4554.5	4515.5	4457.4	4378.3	4277.7	4161.5
-52.5°	3980.5	4012.6	4024.0	4015.8	4024.0	4012.6	3980.5	3930.4	3862.2	3776.6	3676.7
-55°	3465.3	3495.1	3506.6	3501.1	3506.6	3495.1	3465.3	3420.6	3361.3	3291.5	3208.1
-57.5°	2978.1	3001.4	3006.8	2997.1	3006.8	3001.4	2978.1	2942.6	2894.9	2838.0	2768.8
-60°	2536.5	2554.7	2563.8	2562.8	2563.8	2554.7	2536.5	2508.6	2471.2	2424.7	2368.8
-62.5°	2128.2	2139.8	2146.1	2144.6	2146.1	2139.8	2128.2	2108.3	2080.2	2044.9	2003.8
-65°	1743.0	1747.1	1745.6	1737.2	1745.6	1747.1	1743.0	1732.0	1714.1	1691.8	1664.9
-67.5°	1406.4	1406.8	1412.8	1415.5	1412.8	1406.8	1406.4	1400.6	1389.2	1374.4	1357.0
-70°	1115.4	1113.7	1115.9	1115.2	1115.9	1113.7	1115.4	1114.2	1110.4	1105.0	1096.7
-72.5°	867.2	853.4	840.9	825.7	840.9	853.4	867.2	878.9	889.2	895.0	889.2
-75°	648.0	619.8	602.7	584.4	602.7	619.8	648.0	674.5	699.7	718.9	717.0
-77.5°	469.3	433.3	417.9	402.1	417.9	433.3	469.3	503.5	535.9	562.7	564.6
-80°	316.2	283.5	270.6	257.4	270.6	283.5	316.2	347.6	377.3	403.5	410.6
-82.5°	189.8	165.7	158.0	150.1	158.0	165.7	189.8	213.1	235.2	255.2	257.2
-85°	94.0	80.0	75.0	69.7	75.0	80.0	94.0	107.3	119.9	131.3	127.2
-87.5°	17.3	16.0	16.1	16.1	16.1	16.0	17.3	18.5	19.6	20.7	20.4
-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: P627491 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-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°	20.1	19.8	19.4	19.0	18.5	18.0	17.5	17.0	16.4	15.8	15.1
85°	122.7	117.9	112.8	107.4	101.8	95.9	89.6	78.5	68.2	58.7	50.4
82.5°	257.7	256.6	252.9	238.3	223.6	208.9	193.4	170.3	147.6	125.5	106.2
80°	415.6	418.3	415.6	391.3	366.8	342.0	315.7	281.9	247.7	215.2	190.8
77.5°	565.9	566.5	562.0	537.8	511.3	482.3	449.2	408.6	367.8	326.7	295.3
75°	713.5	708.5	698.4	676.2	649.7	618.5	586.1	550.3	508.6	460.7	419.6
72.5°	880.6	869.3	853.5	831.7	805.9	778.4	744.7	705.2	661.6	613.7	570.4
70°	1083.7	1065.8	1042.1	1012.5	983.4	953.0	916.9	873.5	822.6	769.8	721.4
67.5°	1334.5	1307.0	1273.5	1237.7	1201.6	1159.3	1110.8	1057.8	1005.3	946.6	880.3
65°	1631.4	1591.5	1542.8	1496.6	1446.1	1391.2	1329.2	1267.7	1203.4	1133.0	1048.9
62.5°	1957.7	1906.9	1840.9	1773.8	1705.3	1634.8	1558.8	1483.3	1406.5	1323.5	1228.9
60°	2303.5	2228.0	2152.0	2068.8	1978.4	1883.8	1797.4	1705.7	1608.6	1514.6	1410.8
57.5°	2686.8	2593.9	2494.7	2388.6	2276.3	2165.7	2053.9	1938.5	1828.8	1714.2	1596.7
55°	3111.8	3002.1	2877.5	2740.7	2599.1	2470.8	2331.0	2191.0	2058.9	1919.8	1790.4
52.5°	3564.5	3433.2	3288.7	3133.4	2972.3	2805.5	2635.6	2474.8	2302.8	2145.4	1989.0
50°	4031.3	3880.8	3714.3	3535.8	3356.6	3163.3	2969.0	2775.6	2580.7	2387.8	2200.3
47.5°	4505.3	4342.4	4157.3	3959.8	3754.6	3538.8	3317.6	3085.1	2869.4	2645.6	2432.7
45°	5026.4	4825.4	4618.0	4400.5	4165.9	3927.8	3679.6	3425.0	3165.6	2919.5	2669.8
42.5°	5550.6	5324.4	5084.5	4845.4	4589.5	4322.9	4046.0	3765.5	3480.4	3196.5	2923.7
40°	6072.6	5828.0	5566.5	5293.0	5014.1	4720.3	4417.2	4105.1	3795.6	3483.4	3174.7
37.5°	6606.6	6342.3	6059.0	5757.9	5445.4	5119.9	4786.5	4448.7	4107.3	3771.4	3436.6
35°	7154.3	6865.0	6552.3	6223.5	5879.5	5523.3	5157.4	4787.5	4420.3	4057.0	3694.2
32.5°	7697.1	7383.6	7046.5	6686.6	6308.0	5920.3	5526.9	5127.4	4725.5	4337.5	3951.2
30°	8244.5	7897.4	7532.1	7143.4	6732.8	6310.6	5884.5	5461.2	5032.9	4606.0	4197.3
27.5°	8780.9	8402.0	8005.0	7584.7	7146.1	6693.1	6235.4	5783.6	5326.7	4872.9	4432.2
25°	9302.8	8893.7	8455.9	8006.9	7541.9	7059.0	6567.0	6089.1	5611.9	5126.2	4643.0
22.5°	9805.2	9357.3	8885.4	8405.0	7915.9	7408.5	6883.8	6368.8	5875.0	5353.4	4848.4
20°	10268.4	9787.6	9283.6	8777.7	8260.3	7741.2	7179.0	6631.1	6100.0	5564.5	5034.7
17.5°	10679.4	10190.9	9662.3	9129.0	8578.2	8031.6	7454.9	6869.9	6307.1	5752.0	5198.6
15°	11041.6	10553.5	10018.2	9455.9	8867.8	8270.9	7688.5	7080.9	6495.8	5917.9	5350.2
12.5°	11370.6	10859.6	10325.0	9730.4	9106.0	8483.3	7877.6	7265.7	6663.7	6069.5	5486.5
10°	11665.9	11110.4	10544.7	9942.1	9305.4	8662.5	8038.8	7421.2	6806.5	6199.4	5598.9
7.5°	11868.2	11296.3	10711.9	10111.3	9473.6	8820.6	8178.2	7546.0	6917.9	6302.8	5686.6
5°	12017.6	11443.1	10856.8	10247.8	9604.2	8938.7	8281.0	7636.6	6997.1	6378.5	5749.1
2.5°	12132.4	11543.5	10955.7	10333.2	9688.7	9018.4	8354.5	7704.7	7060.1	6434.0	5804.3
0°	12213.7	11581.0	11012.7	10401.5	9742.0	9066.4	8401.6	7747.5	7098.7	6460.7	5833.4
-2.5°	12132.4	11543.5	10955.7	10333.2	9688.7	9018.4	8354.5	7704.7	7060.1	6434.0	5804.3
-5°	12017.6	11443.1	10856.8	10247.8	9604.2	8938.7	8281.0	7636.6	6997.1	6378.5	5749.1
-7.5°	11868.2	11296.3	10711.9	10111.3	9473.6	8820.6	8178.2	7546.0	6917.9	6302.8	5686.6
-10°	11665.9	11110.4	10544.7	9942.1	9305.4	8662.5	8038.8	7421.2	6806.5	6199.4	5598.9
-12.5°	11370.6	10859.6	10325.0	9730.4	9106.0	8483.3	7877.6	7265.7	6663.7	6069.5	5486.5
-15°	11041.6	10553.5	10018.2	9455.9	8867.8	8270.9	7688.5	7080.9	6495.8	5917.9	5350.2
-17.5°	10679.4	10190.9	9662.3	9129.0	8578.2	8031.6	7454.9	6869.9	6307.1	5752.0	5198.6
-20°	10268.4	9787.6	9283.6	8777.7	8260.3	7741.2	7179.0	6631.1	6100.0	5564.5	5034.7



REPORT NUMBER: P627491 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-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°	9805.2	9357.3	8885.4	8405.0	7915.9	7408.5	6883.8	6368.8	5875.0	5353.4	4848.4
-25°	9302.8	8893.7	8455.9	8006.9	7541.9	7059.0	6567.0	6089.1	5611.9	5126.2	4643.0
-27.5°	8780.9	8402.0	8005.0	7584.7	7146.1	6693.1	6235.4	5783.6	5326.7	4872.9	4432.2
-30°	8244.5	7897.4	7532.1	7143.4	6732.8	6310.6	5884.5	5461.2	5032.9	4606.0	4197.3
-32.5°	7697.1	7383.6	7046.5	6686.6	6308.0	5920.3	5526.9	5127.4	4725.5	4337.5	3951.2
-35°	7154.3	6865.0	6552.3	6223.5	5879.5	5523.3	5157.4	4787.5	4420.3	4057.0	3694.2
-37.5°	6606.6	6342.3	6059.0	5757.9	5445.4	5119.9	4786.5	4448.7	4107.3	3771.4	3436.6
-40°	6072.6	5828.0	5566.5	5293.0	5014.1	4720.3	4417.2	4105.1	3795.6	3483.4	3174.7
-42.5°	5550.6	5324.4	5084.5	4845.4	4589.5	4322.9	4046.0	3765.5	3480.4	3196.5	2923.7
-45°	5026.4	4825.4	4618.0	4400.5	4165.9	3927.8	3679.6	3425.0	3165.6	2919.5	2669.8
-47.5°	4505.3	4342.4	4157.3	3959.8	3754.6	3538.8	3317.6	3085.1	2869.4	2645.6	2432.7
-50°	4031.3	3880.8	3714.3	3535.8	3356.6	3163.3	2969.0	2775.6	2580.7	2387.8	2200.3
-52.5°	3564.5	3433.2	3288.7	3133.4	2972.3	2805.5	2635.6	2474.8	2302.8	2145.4	1989.0
-55°	3111.8	3002.1	2877.5	2740.7	2599.1	2470.8	2331.0	2191.0	2058.9	1919.8	1790.4
-57.5°	2686.8	2593.9	2494.7	2388.6	2276.3	2165.7	2053.9	1938.5	1828.8	1714.2	1596.7
-60°	2303.5	2228.0	2152.0	2068.8	1978.4	1883.8	1797.4	1705.7	1608.6	1514.6	1410.8
-62.5°	1957.7	1906.9	1840.9	1773.8	1705.3	1634.8	1558.8	1483.3	1406.5	1323.5	1228.9
-65°	1631.4	1591.5	1542.8	1496.6	1446.1	1391.2	1329.2	1267.7	1203.4	1133.0	1048.9
-67.5°	1334.5	1307.0	1273.5	1237.7	1201.6	1159.3	1110.8	1057.8	1005.3	946.6	880.3
-70°	1083.7	1065.8	1042.1	1012.5	983.4	953.0	916.9	873.5	822.6	769.8	721.4
-72.5°	880.6	869.3	853.5	831.7	805.9	778.4	744.7	705.2	661.6	613.7	570.4
-75°	713.5	708.5	698.4	676.2	649.7	618.5	586.1	550.3	508.6	460.7	419.6
-77.5°	565.9	566.5	562.0	537.8	511.3	482.3	449.2	408.6	367.8	326.7	295.3
-80°	415.6	418.3	415.6	391.3	366.8	342.0	315.7	281.9	247.7	215.2	190.8
-82.5°	257.7	256.6	252.9	238.3	223.6	208.9	193.4	170.3	147.6	125.5	106.2
-85°	122.7	117.9	112.8	107.4	101.8	95.9	89.6	78.5	68.2	58.7	50.4
-87.5°	20.1	19.8	19.4	19.0	18.5	18.0	17.5	17.0	16.4	15.8	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: P627491 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-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°	15.4	15.5	15.5	15.4	13.7	12.0	10.5	9.0	8.2	7.3	6.4
85°	50.6	49.4	46.8	42.4	33.4	24.0	20.9	18.1	16.4	14.6	12.9
82.5°	105.8	106.9	106.8	103.7	91.5	78.6	65.2	51.3	38.0	24.1	19.3
80°	191.2	189.1	184.6	175.9	155.8	133.2	116.1	98.5	81.2	63.2	44.4
77.5°	289.0	280.8	270.7	259.2	237.9	213.0	184.3	151.7	124.2	102.1	79.0
75°	398.4	385.2	371.1	352.0	324.7	293.4	261.9	224.0	181.8	142.1	113.3
72.5°	535.5	503.7	475.3	448.5	418.9	384.0	343.8	294.9	243.7	195.4	150.1
70°	674.4	626.7	584.1	547.7	512.0	475.5	431.3	371.1	304.5	247.6	194.3
67.5°	815.5	759.1	702.1	647.5	602.5	559.5	516.9	446.8	370.6	298.7	237.4
65°	971.2	895.9	823.5	756.0	695.0	641.2	591.2	517.7	434.6	353.8	279.4
62.5°	1131.6	1035.5	949.7	863.7	787.7	722.3	662.2	581.2	495.9	407.1	323.2
60°	1300.2	1190.8	1076.8	976.4	883.1	800.4	727.6	643.7	553.2	458.4	366.8
57.5°	1477.7	1349.1	1221.0	1094.1	982.1	882.8	791.2	703.0	609.5	509.0	407.3
55°	1657.6	1519.1	1367.6	1224.5	1087.1	969.0	858.5	759.9	663.9	558.7	442.4
52.5°	1837.7	1685.5	1522.9	1357.6	1203.8	1056.0	932.6	815.3	713.9	607.3	478.8
50°	2026.1	1851.6	1677.4	1498.8	1319.9	1158.0	1004.2	878.9	762.5	653.4	513.4
47.5°	2222.2	2027.7	1833.9	1638.7	1446.9	1255.5	1087.7	941.1	809.5	695.2	545.6
45°	2437.0	2209.7	1995.1	1784.0	1567.1	1361.0	1172.3	1000.7	862.7	727.7	575.2
42.5°	2651.8	2401.7	2161.9	1927.2	1693.0	1465.7	1252.4	1070.9	913.7	758.9	602.5
40°	2880.2	2594.4	2328.6	2073.9	1815.9	1565.4	1341.2	1139.2	961.4	791.2	628.4
37.5°	3102.3	2792.0	2499.9	2214.1	1936.3	1673.0	1426.5	1203.3	1006.6	827.5	652.8
35°	3337.4	2990.4	2658.2	2355.1	2060.2	1775.0	1506.5	1267.8	1058.7	862.9	675.9
32.5°	3564.5	3184.5	2828.3	2494.2	2178.6	1871.1	1588.7	1336.3	1108.8	897.3	697.5
30°	3787.7	3379.4	2991.2	2625.8	2293.3	1972.0	1671.1	1400.2	1156.7	930.4	719.1
27.5°	3993.4	3559.8	3147.3	2761.8	2406.0	2067.8	1749.0	1459.5	1202.1	964.5	744.2
25°	4185.1	3733.4	3301.2	2892.6	2510.6	2158.4	1820.7	1514.4	1248.4	1000.1	767.5
22.5°	4365.0	3894.5	3440.7	3013.2	2607.5	2241.7	1890.6	1572.8	1292.2	1032.8	788.8
20°	4528.4	4039.7	3565.7	3122.5	2701.8	2321.0	1957.9	1625.2	1331.3	1062.5	808.1
17.5°	4675.7	4172.3	3684.9	3224.6	2789.6	2391.5	2017.6	1671.4	1365.6	1089.0	824.9
15°	4812.4	4292.9	3790.3	3313.7	2865.6	2452.8	2069.6	1711.2	1395.1	1112.0	841.1
12.5°	4929.9	4396.3	3879.7	3389.4	2929.6	2504.8	2113.6	1744.6	1419.5	1132.8	856.2
10°	5026.6	4481.8	3952.7	3451.4	2981.4	2547.1	2149.4	1772.7	1442.4	1150.8	867.9
7.5°	5101.9	4548.8	4009.0	3499.1	3022.4	2582.4	2179.8	1797.0	1460.9	1164.6	876.0
5°	5158.9	4601.1	4058.0	3539.2	3060.2	2611.0	2201.9	1814.4	1474.3	1174.1	880.7
2.5°	5209.7	4640.2	4096.4	3565.1	3085.8	2629.6	2215.3	1824.8	1482.5	1179.1	881.8
0°	5238.3	4659.2	4117.7	3576.2	3099.0	2637.9	2219.7	1828.3	1485.2	1179.5	879.3
-2.5°	5209.7	4640.2	4096.4	3565.1	3085.8	2629.6	2215.3	1824.8	1482.5	1179.1	881.8
-5°	5158.9	4601.1	4058.0	3539.2	3060.2	2611.0	2201.9	1814.4	1474.3	1174.1	880.7
-7.5°	5101.9	4548.8	4009.0	3499.1	3022.4	2582.4	2179.8	1797.0	1460.9	1164.6	876.0
-10°	5026.6	4481.8	3952.7	3451.4	2981.4	2547.1	2149.4	1772.7	1442.4	1150.8	867.9
-12.5°	4929.9	4396.3	3879.7	3389.4	2929.6	2504.8	2113.6	1744.6	1419.5	1132.8	856.2
-15°	4812.4	4292.9	3790.3	3313.7	2865.6	2452.8	2069.6	1711.2	1395.1	1112.0	841.1
-17.5°	4675.7	4172.3	3684.9	3224.6	2789.6	2391.5	2017.6	1671.4	1365.6	1089.0	824.9
-20°	4528.4	4039.7	3565.7	3122.5	2701.8	2321.0	1957.9	1625.2	1331.3	1062.5	808.1



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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°	4365.0	3894.5	3440.7	3013.2	2607.5	2241.7	1890.6	1572.8	1292.2	1032.8	788.8
-25°	4185.1	3733.4	3301.2	2892.6	2510.6	2158.4	1820.7	1514.4	1248.4	1000.1	767.5
-27.5°	3993.4	3559.8	3147.3	2761.8	2406.0	2067.8	1749.0	1459.5	1202.1	964.5	744.2
-30°	3787.7	3379.4	2991.2	2625.8	2293.3	1972.0	1671.1	1400.2	1156.7	930.4	719.1
-32.5°	3564.5	3184.5	2828.3	2494.2	2178.6	1871.1	1588.7	1336.3	1108.8	897.3	697.5
-35°	3337.4	2990.4	2658.2	2355.1	2060.2	1775.0	1506.5	1267.8	1058.7	862.9	675.9
-37.5°	3102.3	2792.0	2499.9	2214.1	1936.3	1673.0	1426.5	1203.3	1006.6	827.5	652.8
-40°	2880.2	2594.4	2328.6	2073.9	1815.9	1565.4	1341.2	1139.2	961.4	791.2	628.4
-42.5°	2651.8	2401.7	2161.9	1927.2	1693.0	1465.7	1252.4	1070.9	913.7	758.9	602.5
-45°	2437.0	2209.7	1995.1	1784.0	1567.1	1361.0	1172.3	1000.7	862.7	727.7	575.2
-47.5°	2222.2	2027.7	1833.9	1638.7	1446.9	1255.5	1087.7	941.1	809.5	695.2	545.6
-50°	2026.1	1851.6	1677.4	1498.8	1319.9	1158.0	1004.2	878.9	762.5	653.4	513.4
-52.5°	1837.7	1685.5	1522.9	1357.6	1203.8	1056.0	932.6	815.3	713.9	607.3	478.8
-55°	1657.6	1519.1	1367.6	1224.5	1087.1	969.0	858.5	759.9	663.9	558.7	442.4
-57.5°	1477.7	1349.1	1221.0	1094.1	982.1	882.8	791.2	703.0	609.5	509.0	407.3
-60°	1300.2	1190.8	1076.8	976.4	883.1	800.4	727.6	643.7	553.2	458.4	366.8
-62.5°	1131.6	1035.5	949.7	863.7	787.7	722.3	662.2	581.2	495.9	407.1	323.2
-65°	971.2	895.9	823.5	756.0	695.0	641.2	591.2	517.7	434.6	353.8	279.4
-67.5°	815.5	759.1	702.1	647.5	602.5	559.5	516.9	446.8	370.6	298.7	237.4
-70°	674.4	626.7	584.1	547.7	512.0	475.5	431.3	371.1	304.5	247.6	194.3
-72.5°	535.5	503.7	475.3	448.5	418.9	384.0	343.8	294.9	243.7	195.4	150.1
-75°	398.4	385.2	371.1	352.0	324.7	293.4	261.9	224.0	181.8	142.1	113.3
-77.5°	289.0	280.8	270.7	259.2	237.9	213.0	184.3	151.7	124.2	102.1	79.0
-80°	191.2	189.1	184.6	175.9	155.8	133.2	116.1	98.5	81.2	63.2	44.4
-82.5°	105.8	106.9	106.8	103.7	91.5	78.6	65.2	51.3	38.0	24.1	19.3
-85°	50.6	49.4	46.8	42.4	33.4	24.0	20.9	18.1	16.4	14.6	12.9
-87.5°	15.4	15.5	15.5	15.4	13.7	12.0	10.5	9.0	8.2	7.3	6.4
-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: P627491 (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°	5.5	4.6	3.7	2.8	1.9	0.8	0.0
85°	11.1	9.3	7.4	5.6	3.7	1.6	0.0
82.5°	16.6	13.9	11.1	8.4	5.6	2.4	0.0
80°	24.9	18.4	14.8	11.1	7.4	3.2	0.0
77.5°	54.4	28.9	18.4	13.9	9.2	4.0	0.0
75°	83.1	50.1	24.0	16.6	11.0	4.8	0.0
72.5°	111.0	70.6	38.3	19.3	12.7	5.6	0.0
70°	138.8	90.5	52.2	23.1	14.4	6.4	0.0
67.5°	172.2	109.5	65.5	31.6	16.1	7.1	0.0
65°	204.2	130.7	78.2	39.8	17.7	7.8	0.0
62.5°	234.5	154.0	90.2	47.7	19.2	8.5	0.0
60°	263.1	176.0	101.5	55.1	20.7	9.2	0.0
57.5°	293.2	196.7	116.6	62.1	24.9	9.8	0.0
55°	321.7	216.0	130.9	68.6	28.9	10.5	0.0
52.5°	348.1	234.2	144.3	74.6	32.8	11.1	0.0
50°	372.3	253.6	156.6	80.1	36.6	11.7	0.0
47.5°	395.0	271.3	167.8	85.8	40.2	12.2	0.0
45°	420.2	287.3	177.9	93.3	43.6	12.7	0.0
42.5°	443.3	301.5	186.9	100.0	46.8	13.2	0.0
40°	464.3	314.0	195.8	106.9	49.8	13.6	0.0
37.5°	483.0	324.5	204.7	113.8	52.7	14.1	0.0
35°	499.6	336.8	212.4	120.1	55.3	14.4	0.0
32.5°	514.9	349.1	218.8	126.0	57.7	14.8	0.0
30°	530.9	359.5	223.9	131.3	59.9	15.1	0.0
27.5°	545.2	368.2	231.6	136.2	61.9	15.4	0.0
25°	557.8	375.1	238.8	140.5	63.7	15.6	0.0
22.5°	568.6	382.0	245.1	144.4	65.3	15.8	0.0
20°	577.5	391.5	250.5	147.7	66.7	16.0	0.0
17.5°	588.6	399.2	255.1	150.5	67.8	16.1	0.0
15°	600.2	405.3	258.8	152.7	68.7	16.2	0.0
12.5°	609.6	409.6	261.6	154.5	69.4	16.3	0.0
10°	616.8	412.3	263.5	155.7	69.9	16.3	0.0
7.5°	621.6	413.4	264.6	156.4	70.2	16.3	0.0
5°	624.2	412.9	264.8	156.6	70.2	16.3	0.0
2.5°	624.3	410.9	264.2	156.3	70.1	16.2	0.0
0°	621.9	407.5	262.7	155.5	69.7	16.1	0.0
-2.5°	624.3	410.9	264.2	156.3	70.1	16.2	0.0
-5°	624.2	412.9	264.8	156.6	70.2	16.3	0.0
-7.5°	621.6	413.4	264.6	156.4	70.2	16.3	0.0
-10°	616.8	412.3	263.5	155.7	69.9	16.3	0.0
-12.5°	609.6	409.6	261.6	154.5	69.4	16.3	0.0
-15°	600.2	405.3	258.8	152.7	68.7	16.2	0.0
-17.5°	588.6	399.2	255.1	150.5	67.8	16.1	0.0
-20°	577.5	391.5	250.5	147.7	66.7	16.0	0.0

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CATALOG NUMBER: GFLD-SA4E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	568.6	382.0	245.1	144.4	65.3	15.8	0.0
-25°	557.8	375.1	238.8	140.5	63.7	15.6	0.0
-27.5°	545.2	368.2	231.6	136.2	61.9	15.4	0.0
-30°	530.9	359.5	223.9	131.3	59.9	15.1	0.0
-32.5°	514.9	349.1	218.8	126.0	57.7	14.8	0.0
-35°	499.6	336.8	212.4	120.1	55.3	14.4	0.0
-37.5°	483.0	324.5	204.7	113.8	52.7	14.1	0.0
-40°	464.3	314.0	195.8	106.9	49.8	13.6	0.0
-42.5°	443.3	301.5	186.9	100.0	46.8	13.2	0.0
-45°	420.2	287.3	177.9	93.3	43.6	12.7	0.0
-47.5°	395.0	271.3	167.8	85.8	40.2	12.2	0.0
-50°	372.3	253.6	156.6	80.1	36.6	11.7	0.0
-52.5°	348.1	234.2	144.3	74.6	32.8	11.1	0.0
-55°	321.7	216.0	130.9	68.6	28.9	10.5	0.0
-57.5°	293.2	196.7	116.6	62.1	24.9	9.8	0.0
-60°	263.1	176.0	101.5	55.1	20.7	9.2	0.0
-62.5°	234.5	154.0	90.2	47.7	19.2	8.5	0.0
-65°	204.2	130.7	78.2	39.8	17.7	7.8	0.0
-67.5°	172.2	109.5	65.5	31.6	16.1	7.1	0.0
-70°	138.8	90.5	52.2	23.1	14.4	6.4	0.0
-72.5°	111.0	70.6	38.3	19.3	12.7	5.6	0.0
-75°	83.1	50.1	24.0	16.6	11.0	4.8	0.0
-77.5°	54.4	28.9	18.4	13.9	9.2	4.0	0.0
-80°	24.9	18.4	14.8	11.1	7.4	3.2	0.0
-82.5°	16.6	13.9	11.1	8.4	5.6	2.4	0.0
-85°	11.1	9.3	7.4	5.6	3.7	1.6	0.0
-87.5°	5.5	4.6	3.7	2.8	1.9	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)