

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: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4D-735-U-VWR-XX**

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P627461 (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-SA4D-735-U-VWR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N99  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

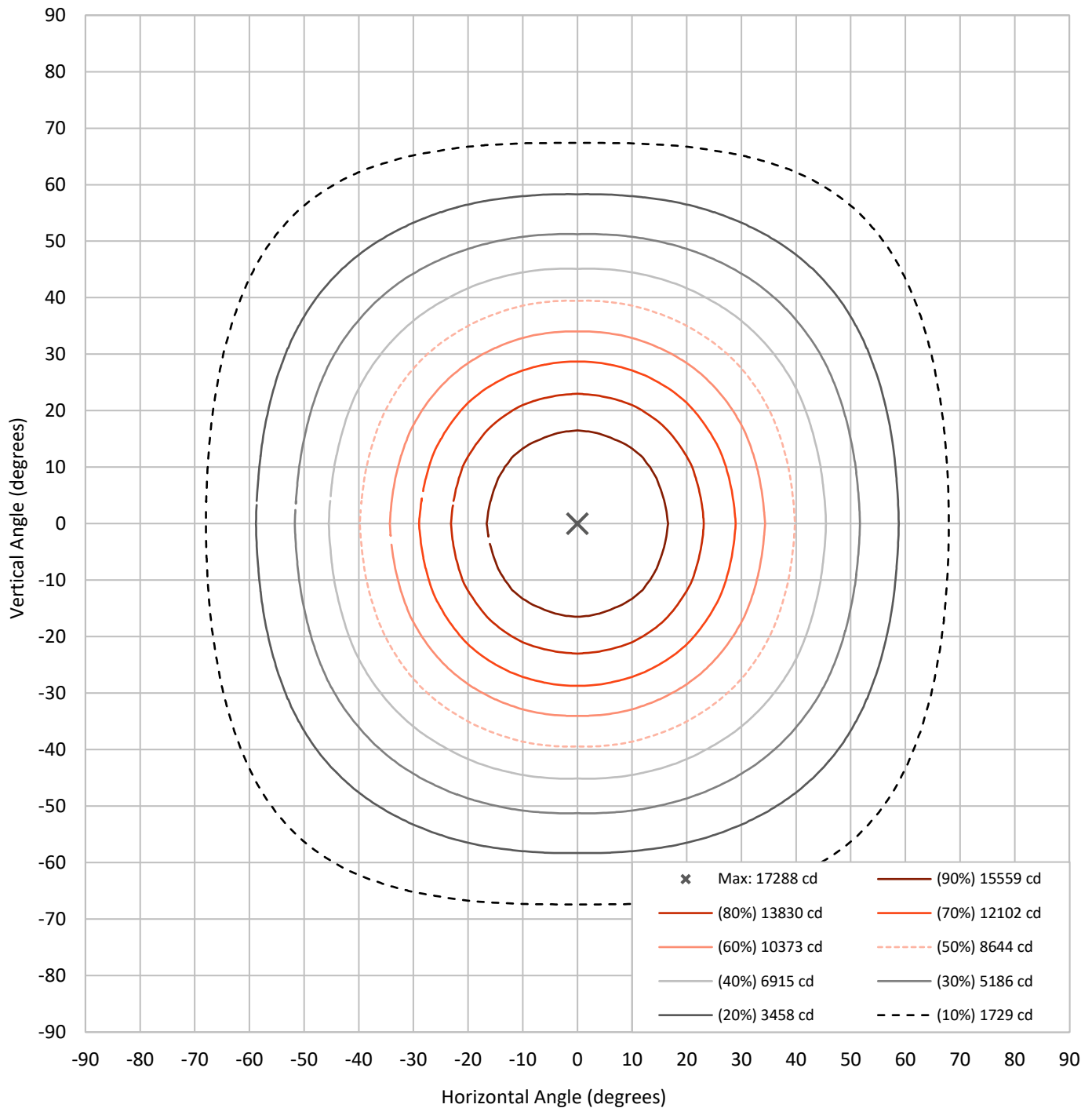
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31246.5 lumens	Max Intensity:	17288 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.1 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:	18326.2 lumens	Field Lumens:	29788.2 lumens
Beam Efficiency:	58.7%	Field Efficiency:	95.3%
Input Watts (W):	221.4		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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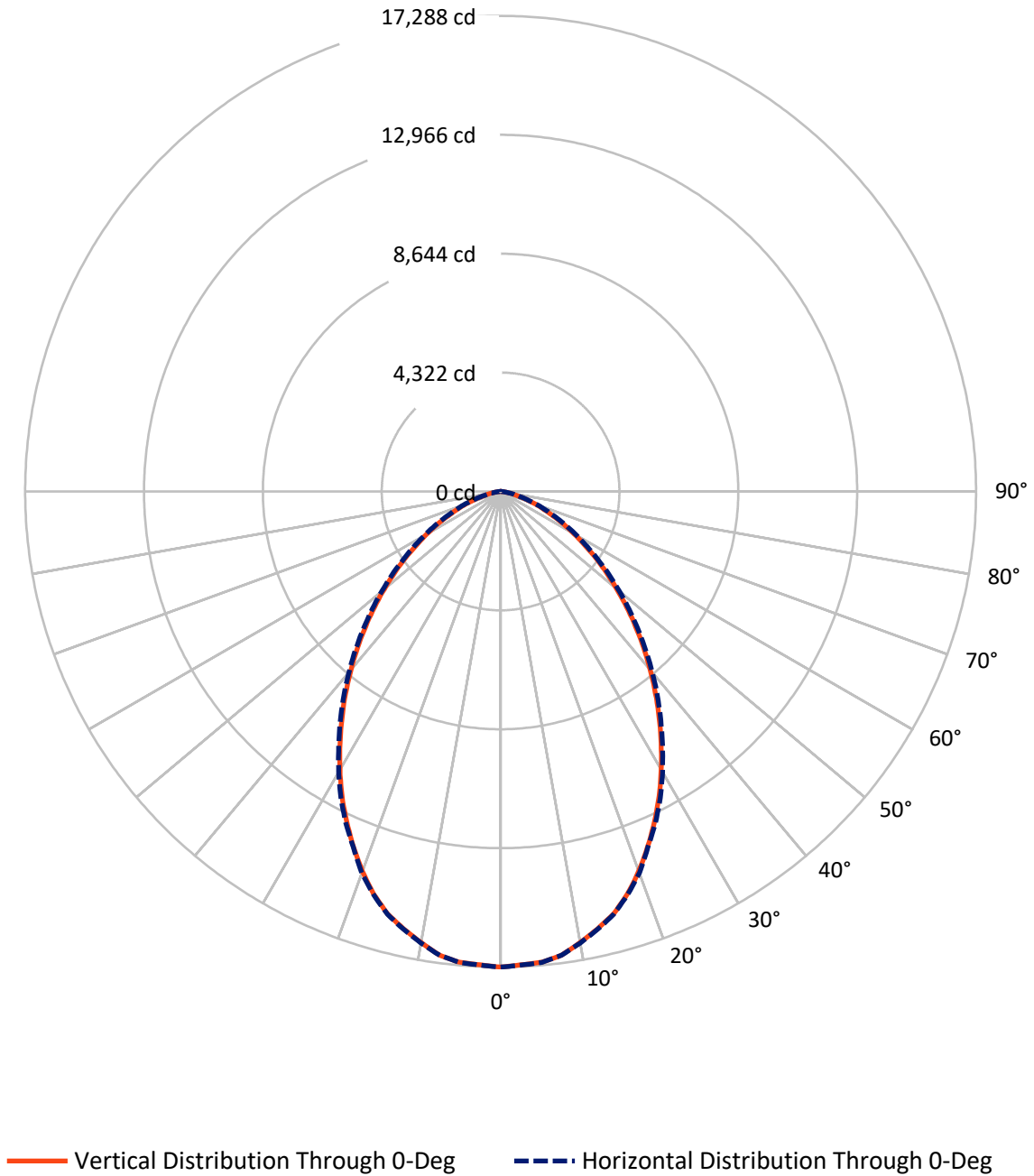
### Iso-Candela Plot





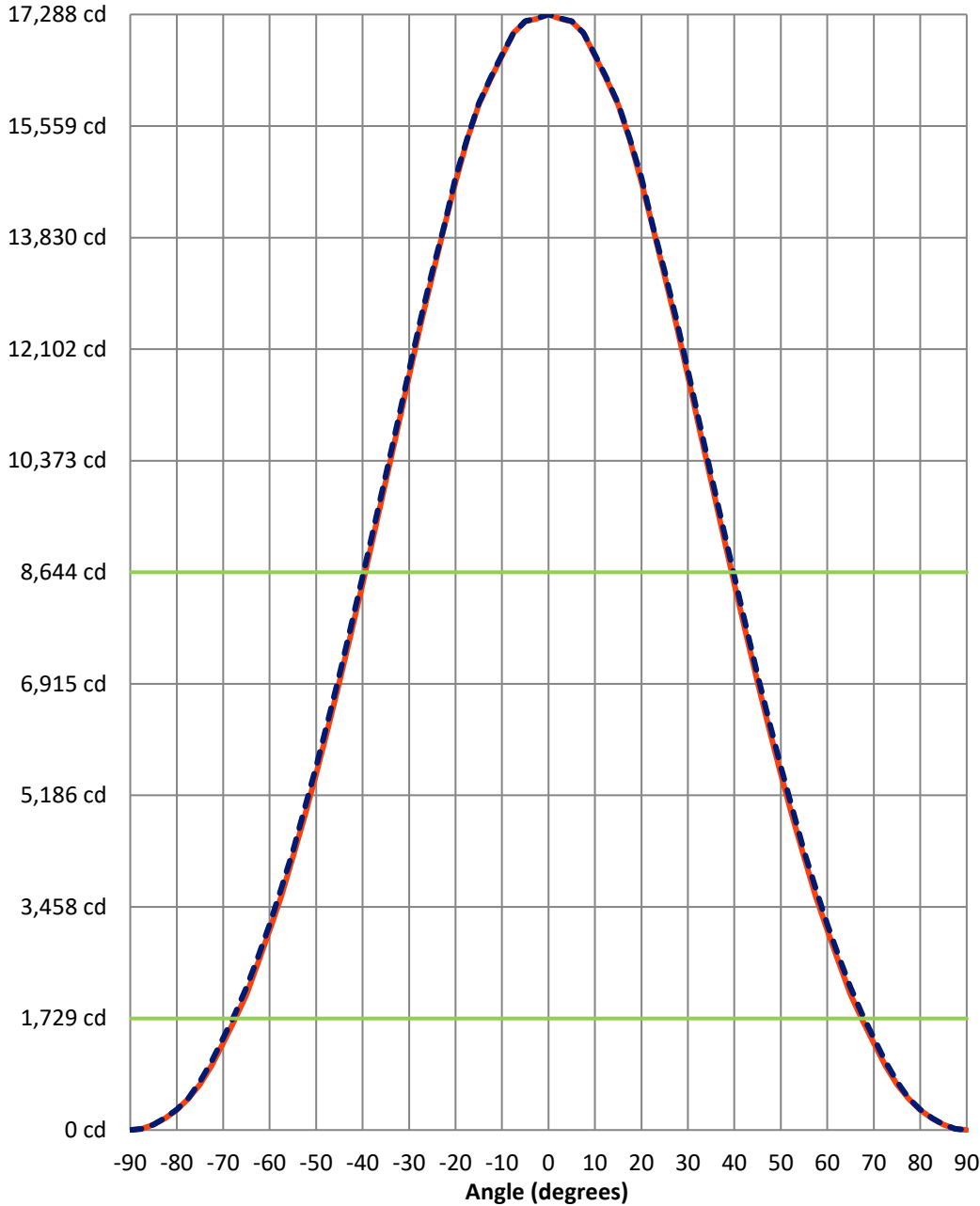
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 79.6°  
 V Angle: 78.9°  
 Lumens: 18326.2  
 Efficiency: 58.7%

**Field:**  
 H Angle: 135.9°  
 V Angle: 134.8°  
 Lumens: 29788.2  
 Efficiency: 95.3%

**Spill:**  
 Lumens: 1458.3  
 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	3.4	4.5	5.6	6.7	7.8	8.9	9.9	10.9
85°	0.0	2.0	4.5	6.8	9.0	11.2	13.4	15.6	17.7	19.8	21.9
82.5°	0.0	3.0	6.7	10.1	13.5	16.8	20.1	23.3	29.2	45.9	62.0
80°	0.0	3.9	8.9	13.5	17.9	22.3	30.2	53.7	76.4	98.2	119.1
77.5°	0.0	4.9	11.1	16.8	22.3	35.0	65.8	95.5	123.4	150.2	183.4
75°	0.0	5.8	13.3	20.1	29.1	60.6	100.5	136.9	171.8	219.8	270.7
72.5°	0.0	6.8	15.4	23.3	46.4	85.4	134.2	181.4	236.2	294.6	356.4
70°	0.0	7.7	17.4	27.9	63.1	109.4	167.8	234.8	299.3	368.0	448.4
67.5°	0.0	8.6	19.4	38.3	79.2	132.3	208.2	287.0	361.0	447.8	540.0
65°	0.0	9.4	21.4	48.2	94.5	158.0	246.8	337.7	427.6	525.3	625.7
62.5°	0.0	10.3	23.2	57.7	109.0	186.1	283.5	390.7	492.0	599.3	702.3
60°	0.0	11.1	25.0	66.6	122.7	212.8	318.0	443.3	554.0	668.5	777.9
57.5°	0.0	11.9	30.1	75.1	140.9	237.8	354.4	492.3	615.2	736.6	849.6
55°	0.0	12.7	35.0	83.0	158.3	261.0	388.9	534.7	675.3	802.3	918.3
52.5°	0.0	13.4	39.7	90.2	174.4	283.1	420.8	578.7	734.0	862.8	985.3
50°	0.0	14.1	44.2	96.9	189.3	306.5	450.0	620.5	789.8	921.5	1062.2
47.5°	0.0	14.7	48.6	103.8	202.8	327.9	477.4	659.4	840.3	978.4	1137.4
45°	0.0	15.3	52.7	112.8	215.0	347.2	507.8	695.2	879.6	1042.7	1209.4
42.5°	0.0	15.9	56.6	120.9	225.9	364.4	535.8	728.2	917.2	1104.2	1294.1
40°	0.0	16.5	60.2	129.3	236.7	379.4	561.1	759.4	956.3	1161.8	1376.7
37.5°	0.0	17.0	63.7	137.5	247.4	392.2	583.8	789.0	1000.1	1216.5	1454.2
35°	0.0	17.4	66.8	145.2	256.7	407.0	603.8	816.9	1042.9	1279.5	1532.3
32.5°	0.0	17.8	69.8	152.3	264.4	421.8	622.3	843.0	1084.4	1340.0	1614.9
30°	0.0	18.2	72.4	158.7	270.6	434.5	641.6	869.1	1124.4	1397.9	1692.2
27.5°	0.0	18.5	74.9	164.6	279.8	445.0	658.9	899.4	1165.6	1452.8	1763.9
25°	0.0	18.8	77.0	169.9	288.5	453.3	674.1	927.5	1208.6	1508.7	1830.2
22.5°	0.0	19.1	78.9	174.5	296.2	461.6	687.1	953.3	1248.2	1561.6	1900.8
20°	0.0	19.3	80.6	178.5	302.7	473.1	697.8	976.5	1284.1	1608.9	1964.1
17.5°	0.0	19.4	81.9	181.9	308.3	482.5	711.3	997.0	1316.1	1650.4	2020.0
15°	0.0	19.6	83.0	184.6	312.7	489.8	725.3	1016.5	1343.9	1686.0	2068.1
12.5°	0.0	19.6	83.9	186.7	316.1	495.0	736.7	1034.8	1369.0	1715.5	2108.4
10°	0.0	19.7	84.5	188.2	318.5	498.3	745.4	1048.9	1390.7	1743.2	2142.4
7.5°	0.0	19.7	84.8	189.0	319.8	499.6	751.3	1058.8	1407.4	1765.6	2171.7
5°	0.0	19.6	84.8	189.3	320.1	499.1	754.4	1064.3	1418.9	1781.8	2192.7
2.5°	0.0	19.5	84.6	188.9	319.3	496.7	754.5	1065.7	1425.0	1791.6	2205.4
0°	0.0	19.4	84.2	187.9	317.5	492.5	751.7	1062.7	1425.5	1794.9	2209.6
-2.5°	0.0	19.5	84.6	188.9	319.3	496.7	754.5	1065.7	1425.0	1791.6	2205.4
-5°	0.0	19.6	84.8	189.3	320.1	499.1	754.4	1064.3	1418.9	1781.8	2192.7
-7.5°	0.0	19.7	84.8	189.0	319.8	499.6	751.3	1058.8	1407.4	1765.6	2171.7
-10°	0.0	19.7	84.5	188.2	318.5	498.3	745.4	1048.9	1390.7	1743.2	2142.4
-12.5°	0.0	19.6	83.9	186.7	316.1	495.0	736.7	1034.8	1369.0	1715.5	2108.4
-15°	0.0	19.6	83.0	184.6	312.7	489.8	725.3	1016.5	1343.9	1686.0	2068.1
-17.5°	0.0	19.4	81.9	181.9	308.3	482.5	711.3	997.0	1316.1	1650.4	2020.0
-20°	0.0	19.3	80.6	178.5	302.7	473.1	697.8	976.5	1284.1	1608.9	1964.1

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Scaled Data Report



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CATALOG NUMBER: GFLD-SA4D-735-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	19.1	78.9	174.5	296.2	461.6	687.1	953.3	1248.2	1561.6	1900.8
-25°	0.0	18.8	77.0	169.9	288.5	453.3	674.1	927.5	1208.6	1508.7	1830.2
-27.5°	0.0	18.5	74.9	164.6	279.8	445.0	658.9	899.4	1165.6	1452.8	1763.9
-30°	0.0	18.2	72.4	158.7	270.6	434.5	641.6	869.1	1124.4	1397.9	1692.2
-32.5°	0.0	17.8	69.8	152.3	264.4	421.8	622.3	843.0	1084.4	1340.0	1614.9
-35°	0.0	17.4	66.8	145.2	256.7	407.0	603.8	816.9	1042.9	1279.5	1532.3
-37.5°	0.0	17.0	63.7	137.5	247.4	392.2	583.8	789.0	1000.1	1216.5	1454.2
-40°	0.0	16.5	60.2	129.3	236.7	379.4	561.1	759.4	956.3	1161.8	1376.7
-42.5°	0.0	15.9	56.6	120.9	225.9	364.4	535.8	728.2	917.2	1104.2	1294.1
-45°	0.0	15.3	52.7	112.8	215.0	347.2	507.8	695.2	879.6	1042.7	1209.4
-47.5°	0.0	14.7	48.6	103.8	202.8	327.9	477.4	659.4	840.3	978.4	1137.4
-50°	0.0	14.1	44.2	96.9	189.3	306.5	450.0	620.5	789.8	921.5	1062.2
-52.5°	0.0	13.4	39.7	90.2	174.4	283.1	420.8	578.7	734.0	862.8	985.3
-55°	0.0	12.7	35.0	83.0	158.3	261.0	388.9	534.7	675.3	802.3	918.3
-57.5°	0.0	11.9	30.1	75.1	140.9	237.8	354.4	492.3	615.2	736.6	849.6
-60°	0.0	11.1	25.0	66.6	122.7	212.8	318.0	443.3	554.0	668.5	777.9
-62.5°	0.0	10.3	23.2	57.7	109.0	186.1	283.5	390.7	492.0	599.3	702.3
-65°	0.0	9.4	21.4	48.2	94.5	158.0	246.8	337.7	427.6	525.3	625.7
-67.5°	0.0	8.6	19.4	38.3	79.2	132.3	208.2	287.0	361.0	447.8	540.0
-70°	0.0	7.7	17.4	27.9	63.1	109.4	167.8	234.8	299.3	368.0	448.4
-72.5°	0.0	6.8	15.4	23.3	46.4	85.4	134.2	181.4	236.2	294.6	356.4
-75°	0.0	5.8	13.3	20.1	29.1	60.6	100.5	136.9	171.8	219.8	270.7
-77.5°	0.0	4.9	11.1	16.8	22.3	35.0	65.8	95.5	123.4	150.2	183.4
-80°	0.0	3.9	8.9	13.5	17.9	22.3	30.2	53.7	76.4	98.2	119.1
-82.5°	0.0	3.0	6.7	10.1	13.5	16.8	20.1	23.3	29.2	45.9	62.0
-85°	0.0	2.0	4.5	6.8	9.0	11.2	13.4	15.6	17.7	19.8	21.9
-87.5°	0.0	1.0	2.3	3.4	4.5	5.6	6.7	7.8	8.9	9.9	10.9
-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: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-735-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°	12.7	14.6	16.5	18.6	18.7	18.7	18.6	18.3	19.1	19.8	20.5
85°	25.3	29.1	40.4	51.3	56.6	59.8	61.3	61.0	71.0	82.5	94.9
82.5°	78.8	95.1	110.6	125.3	129.2	129.3	128.0	128.4	151.7	178.4	205.8
80°	140.4	161.0	188.3	212.6	223.1	228.5	231.0	230.7	260.1	299.4	340.7
77.5°	222.7	257.4	287.6	313.2	327.1	339.3	349.3	356.9	394.8	444.5	493.7
75°	316.5	354.6	392.4	425.4	448.4	465.5	481.5	507.1	556.7	614.7	665.1
72.5°	415.5	464.1	506.2	542.0	574.4	608.8	647.2	689.3	741.8	799.6	852.3
70°	521.2	574.6	618.8	661.9	706.0	757.5	815.2	871.9	930.4	994.2	1055.7
67.5°	624.6	676.2	728.2	782.6	848.6	917.5	985.7	1063.9	1144.0	1214.9	1278.4
65°	714.4	774.9	839.9	913.8	995.3	1082.8	1173.8	1267.7	1369.3	1454.5	1532.1
62.5°	800.2	872.9	951.9	1043.9	1147.9	1251.5	1367.6	1485.2	1599.6	1699.9	1792.6
60°	879.2	967.3	1067.3	1180.0	1301.4	1439.1	1571.4	1705.1	1830.5	1944.1	2061.3
57.5°	956.2	1066.9	1186.9	1322.3	1475.7	1630.5	1785.9	1929.7	2071.7	2210.1	2342.7
55°	1037.6	1171.1	1313.8	1479.8	1652.8	1835.9	2003.3	2163.8	2320.2	2488.2	2647.9
52.5°	1127.1	1276.2	1454.9	1640.7	1840.6	2037.0	2220.9	2403.7	2592.8	2783.0	2990.9
50°	1213.5	1399.5	1595.2	1811.4	2027.2	2237.7	2448.6	2659.1	2885.7	3118.9	3354.5
47.5°	1314.5	1517.4	1748.6	1980.5	2216.3	2450.5	2685.5	2940.0	3197.4	3467.9	3728.5
45°	1416.7	1644.8	1893.9	2156.1	2411.1	2670.5	2945.2	3226.6	3528.3	3825.8	4139.3
42.5°	1513.6	1771.4	2046.0	2329.1	2612.8	2902.6	3204.8	3533.4	3863.1	4206.2	4550.7
40°	1620.9	1891.8	2194.6	2506.5	2814.3	3135.5	3480.8	3836.8	4209.9	4587.1	4961.2
37.5°	1724.0	2021.8	2340.1	2675.8	3021.3	3374.3	3749.3	4153.2	4557.9	4963.8	5376.4
35°	1820.6	2145.2	2489.9	2846.3	3212.6	3614.1	4033.3	4464.6	4903.0	5342.1	5785.9
32.5°	1920.0	2261.4	2633.0	3014.4	3418.1	3848.7	4307.8	4775.1	5242.1	5711.0	6196.7
30°	2019.6	2383.3	2771.6	3173.4	3615.0	4084.1	4577.6	5072.6	5566.6	6082.5	6600.2
27.5°	2113.7	2499.0	2907.8	3337.8	3803.7	4302.1	4826.2	5356.4	5889.1	6437.5	6989.8
25°	2200.4	2608.6	3034.2	3495.9	3989.7	4511.9	5057.9	5611.2	6195.3	6782.2	7358.9
22.5°	2284.9	2709.2	3151.3	3641.6	4158.3	4706.7	5275.2	5859.5	6469.8	7100.2	7696.9
20°	2366.2	2805.0	3265.2	3773.6	4309.2	4882.1	5472.8	6084.6	6724.9	7372.1	8014.0
17.5°	2438.4	2890.2	3371.3	3897.0	4453.4	5042.5	5650.8	6282.7	6951.5	7622.4	8302.5
15°	2501.3	2964.4	3463.2	4004.7	4580.7	5188.2	5816.0	6465.9	7152.0	7850.5	8557.5
12.5°	2554.4	3027.2	3540.5	4096.3	4688.8	5313.2	5958.0	6630.7	7335.3	8053.4	8780.9
10°	2597.6	3078.3	3603.1	4171.1	4777.1	5416.5	6074.9	6766.5	7492.3	8226.0	8968.8
7.5°	2634.4	3121.0	3652.7	4228.8	4845.1	5497.4	6165.9	6872.5	7617.3	8360.6	9119.7
5°	2661.1	3155.5	3698.4	4277.2	4904.3	5560.6	6234.8	6948.1	7708.8	8456.4	9229.2
2.5°	2677.2	3178.0	3729.4	4308.6	4950.7	5608.0	6296.1	7014.8	7775.8	8532.4	9311.5
0°	2682.6	3188.0	3745.3	4322.0	4976.4	5630.9	6330.7	7050.0	7808.1	8579.2	9363.2
-2.5°	2677.2	3178.0	3729.4	4308.6	4950.7	5608.0	6296.1	7014.8	7775.8	8532.4	9311.5
-5°	2661.1	3155.5	3698.4	4277.2	4904.3	5560.6	6234.8	6948.1	7708.8	8456.4	9229.2
-7.5°	2634.4	3121.0	3652.7	4228.8	4845.1	5497.4	6165.9	6872.5	7617.3	8360.6	9119.7
-10°	2597.6	3078.3	3603.1	4171.1	4777.1	5416.5	6074.9	6766.5	7492.3	8226.0	8968.8
-12.5°	2554.4	3027.2	3540.5	4096.3	4688.8	5313.2	5958.0	6630.7	7335.3	8053.4	8780.9
-15°	2501.3	2964.4	3463.2	4004.7	4580.7	5188.2	5816.0	6465.9	7152.0	7850.5	8557.5
-17.5°	2438.4	2890.2	3371.3	3897.0	4453.4	5042.5	5650.8	6282.7	6951.5	7622.4	8302.5
-20°	2366.2	2805.0	3265.2	3773.6	4309.2	4882.1	5472.8	6084.6	6724.9	7372.1	8014.0



REPORT NUMBER: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-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°	2284.9	2709.2	3151.3	3641.6	4158.3	4706.7	5275.2	5859.5	6469.8	7100.2	7696.9
-25°	2200.4	2608.6	3034.2	3495.9	3989.7	4511.9	5057.9	5611.2	6195.3	6782.2	7358.9
-27.5°	2113.7	2499.0	2907.8	3337.8	3803.7	4302.1	4826.2	5356.4	5889.1	6437.5	6989.8
-30°	2019.6	2383.3	2771.6	3173.4	3615.0	4084.1	4577.6	5072.6	5566.6	6082.5	6600.2
-32.5°	1920.0	2261.4	2633.0	3014.4	3418.1	3848.7	4307.8	4775.1	5242.1	5711.0	6196.7
-35°	1820.6	2145.2	2489.9	2846.3	3212.6	3614.1	4033.3	4464.6	4903.0	5342.1	5785.9
-37.5°	1724.0	2021.8	2340.1	2675.8	3021.3	3374.3	3749.3	4153.2	4557.9	4963.8	5376.4
-40°	1620.9	1891.8	2194.6	2506.5	2814.3	3135.5	3480.8	3836.8	4209.9	4587.1	4961.2
-42.5°	1513.6	1771.4	2046.0	2329.1	2612.8	2902.6	3204.8	3533.4	3863.1	4206.2	4550.7
-45°	1416.7	1644.8	1893.9	2156.1	2411.1	2670.5	2945.2	3226.6	3528.3	3825.8	4139.3
-47.5°	1314.5	1517.4	1748.6	1980.5	2216.3	2450.5	2685.5	2940.0	3197.4	3467.9	3728.5
-50°	1213.5	1399.5	1595.2	1811.4	2027.2	2237.7	2448.6	2659.1	2885.7	3118.9	3354.5
-52.5°	1127.1	1276.2	1454.9	1640.7	1840.6	2037.0	2220.9	2403.7	2592.8	2783.0	2990.9
-55°	1037.6	1171.1	1313.8	1479.8	1652.8	1835.9	2003.3	2163.8	2320.2	2488.2	2647.9
-57.5°	956.2	1066.9	1186.9	1322.3	1475.7	1630.5	1785.9	1929.7	2071.7	2210.1	2342.7
-60°	879.2	967.3	1067.3	1180.0	1301.4	1439.1	1571.4	1705.1	1830.5	1944.1	2061.3
-62.5°	800.2	872.9	951.9	1043.9	1147.9	1251.5	1367.6	1485.2	1599.6	1699.9	1792.6
-65°	714.4	774.9	839.9	913.8	995.3	1082.8	1173.8	1267.7	1369.3	1454.5	1532.1
-67.5°	624.6	676.2	728.2	782.6	848.6	917.5	985.7	1063.9	1144.0	1214.9	1278.4
-70°	521.2	574.6	618.8	661.9	706.0	757.5	815.2	871.9	930.4	994.2	1055.7
-72.5°	415.5	464.1	506.2	542.0	574.4	608.8	647.2	689.3	741.8	799.6	852.3
-75°	316.5	354.6	392.4	425.4	448.4	465.5	481.5	507.1	556.7	614.7	665.1
-77.5°	222.7	257.4	287.6	313.2	327.1	339.3	349.3	356.9	394.8	444.5	493.7
-80°	140.4	161.0	188.3	212.6	223.1	228.5	231.0	230.7	260.1	299.4	340.7
-82.5°	78.8	95.1	110.6	125.3	129.2	129.3	128.0	128.4	151.7	178.4	205.8
-85°	25.3	29.1	40.4	51.3	56.6	59.8	61.3	61.0	71.0	82.5	94.9
-87.5°	12.7	14.6	16.5	18.6	18.7	18.7	18.6	18.3	19.1	19.8	20.5
-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: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-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°	21.2	21.8	22.4	23.0	23.5	23.9	24.3	24.7	25.0	23.7	22.3
85°	108.2	115.9	123.0	129.9	136.4	142.6	148.4	153.8	158.7	145.0	129.8
82.5°	233.8	252.5	270.3	288.1	305.7	310.2	311.5	310.9	308.4	284.3	257.5
80°	381.6	413.3	443.3	473.0	502.3	505.6	502.3	496.2	487.6	455.9	420.0
77.5°	542.8	582.9	617.9	650.0	679.2	684.7	683.9	682.4	680.0	647.7	608.5
75°	708.3	747.4	785.1	817.2	844.0	856.3	862.3	866.5	868.9	845.7	815.3
72.5°	900.0	940.8	974.0	1005.2	1031.5	1050.6	1064.3	1074.7	1081.7	1074.7	1062.2
70°	1108.1	1151.8	1188.5	1223.7	1259.4	1288.1	1309.7	1325.4	1335.4	1341.9	1346.5
67.5°	1342.4	1401.0	1452.1	1495.8	1539.0	1579.6	1612.8	1640.1	1661.1	1678.9	1692.7
65°	1606.4	1681.2	1747.7	1808.7	1864.5	1923.3	1971.6	2012.1	2044.7	2071.6	2093.2
62.5°	1883.9	1975.7	2061.0	2143.7	2224.7	2304.6	2365.9	2421.7	2471.3	2514.0	2547.9
60°	2172.3	2276.6	2391.0	2500.2	2600.8	2692.6	2783.8	2862.8	2930.4	2986.5	3031.7
57.5°	2482.3	2617.4	2751.1	2886.8	3015.0	3135.0	3247.2	3346.3	3430.0	3498.6	3556.3
55°	2817.2	2986.1	3141.3	3312.4	3477.7	3628.3	3760.8	3877.2	3978.0	4062.4	4134.0
52.5°	3185.3	3390.6	3592.1	3786.8	3974.5	4149.1	4307.8	4443.5	4564.1	4667.6	4750.1
50°	3588.2	3823.1	4056.7	4273.2	4488.9	4690.1	4872.0	5029.4	5169.8	5291.4	5387.0
47.5°	4009.5	4276.9	4537.7	4785.6	5024.3	5248.0	5444.9	5624.4	5799.4	5942.2	6055.1
45°	4447.0	4746.9	5034.7	5318.1	5581.0	5831.7	6074.7	6298.1	6477.8	6635.0	6767.1
42.5°	4889.8	5224.4	5546.6	5855.9	6144.9	6434.8	6708.1	6952.4	7157.3	7336.1	7486.2
40°	5338.4	5704.7	6059.7	6396.9	6727.3	7043.4	7339.0	7596.6	7827.7	8040.0	8217.0
37.5°	5784.7	6187.7	6581.0	6958.7	7322.6	7665.0	7984.4	8275.5	8536.2	8778.1	8974.6
35°	6233.0	6675.2	7105.7	7521.4	7918.8	8296.7	8646.4	8977.6	9284.9	9529.9	9730.9
32.5°	6679.6	7154.9	7623.5	8081.1	8516.1	8923.5	9302.4	9668.4	9984.5	10253.8	10484.9
30°	7111.7	7626.6	8136.9	8633.1	9102.9	9544.4	9963.9	10350.9	10690.9	10985.5	11244.7
27.5°	7535.7	8089.0	8636.5	9166.5	9674.5	10154.2	10612.1	11031.8	11402.7	11722.9	11996.2
25°	7936.5	8531.1	9114.7	9676.7	10219.4	10748.5	11242.9	11700.8	12097.1	12448.5	12729.4
22.5°	8319.4	8953.5	9566.7	10158.0	10738.4	11308.7	11850.0	12328.2	12748.1	13115.5	13426.4
20°	8676.1	9355.6	9983.0	10608.3	11219.7	11828.7	12409.8	12914.3	13358.6	13749.8	14092.4
17.5°	9009.6	9706.6	10367.2	11032.8	11677.3	12316.2	12906.5	13447.3	13926.7	14342.1	14700.9
15°	9291.9	9995.8	10717.2	11427.9	12107.5	12754.5	13344.3	13909.1	14441.4	14890.6	15254.5
12.5°	9520.5	10252.5	11005.1	11759.6	12478.3	13124.3	13741.9	14314.9	14873.9	15378.5	15713.0
10°	9715.3	10469.0	11246.0	12015.5	12743.8	13427.4	14098.8	14704.6	15253.9	15705.8	16079.3
7.5°	9883.7	10660.1	11449.3	12220.0	12945.8	13652.2	14343.3	14986.8	15541.3	15967.0	16300.2
5°	10007.9	10802.8	11607.2	12385.0	13121.0	13829.6	14523.9	15159.3	15700.6	16133.7	16497.1
2.5°	10096.8	10899.2	11709.3	12488.3	13240.5	13950.9	14662.6	15305.1	15829.3	16226.1	16574.1
0°	10153.8	10957.2	11773.7	12570.7	13309.4	13996.2	14760.9	15363.5	15907.8	16303.0	16665.9
-2.5°	10096.8	10899.2	11709.3	12488.3	13240.5	13950.9	14662.6	15305.1	15829.3	16226.1	16574.1
-5°	10007.9	10802.8	11607.2	12385.0	13121.0	13829.6	14523.9	15159.3	15700.6	16133.7	16497.1
-7.5°	9883.7	10660.1	11449.3	12220.0	12945.8	13652.2	14343.3	14986.8	15541.3	15967.0	16300.2
-10°	9715.3	10469.0	11246.0	12015.5	12743.8	13427.4	14098.8	14704.6	15253.9	15705.8	16079.3
-12.5°	9520.5	10252.5	11005.1	11759.6	12478.3	13124.3	13741.9	14314.9	14873.9	15378.5	15713.0
-15°	9291.9	9995.8	10717.2	11427.9	12107.5	12754.5	13344.3	13909.1	14441.4	14890.6	15254.5
-17.5°	9009.6	9706.6	10367.2	11032.8	11677.3	12316.2	12906.5	13447.3	13926.7	14342.1	14700.9
-20°	8676.1	9355.6	9983.0	10608.3	11219.7	11828.7	12409.8	12914.3	13358.6	13749.8	14092.4



REPORT NUMBER: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8319.4	8953.5	9566.7	10158.0	10738.4	11308.7	11850.0	12328.2	12748.1	13115.5	13426.4
-25°	7936.5	8531.1	9114.7	9676.7	10219.4	10748.5	11242.9	11700.8	12097.1	12448.5	12729.4
-27.5°	7535.7	8089.0	8636.5	9166.5	9674.5	10154.2	10612.1	11031.8	11402.7	11722.9	11996.2
-30°	7111.7	7626.6	8136.9	8633.1	9102.9	9544.4	9963.9	10350.9	10690.9	10985.5	11244.7
-32.5°	6679.6	7154.9	7623.5	8081.1	8516.1	8923.5	9302.4	9668.4	9984.5	10253.8	10484.9
-35°	6233.0	6675.2	7105.7	7521.4	7918.8	8296.7	8646.4	8977.6	9284.9	9529.9	9730.9
-37.5°	5784.7	6187.7	6581.0	6958.7	7322.6	7665.0	7984.4	8275.5	8536.2	8778.1	8974.6
-40°	5338.4	5704.7	6059.7	6396.9	6727.3	7043.4	7339.0	7596.6	7827.7	8040.0	8217.0
-42.5°	4889.8	5224.4	5546.6	5855.9	6144.9	6434.8	6708.1	6952.4	7157.3	7336.1	7486.2
-45°	4447.0	4746.9	5034.7	5318.1	5581.0	5831.7	6074.7	6298.1	6477.8	6635.0	6767.1
-47.5°	4009.5	4276.9	4537.7	4785.6	5024.3	5248.0	5444.9	5624.4	5799.4	5942.2	6055.1
-50°	3588.2	3823.1	4056.7	4273.2	4488.9	4690.1	4872.0	5029.4	5169.8	5291.4	5387.0
-52.5°	3185.3	3390.6	3592.1	3786.8	3974.5	4149.1	4307.8	4443.5	4564.1	4667.6	4750.1
-55°	2817.2	2986.1	3141.3	3312.4	3477.7	3628.3	3760.8	3877.2	3978.0	4062.4	4134.0
-57.5°	2482.3	2617.4	2751.1	2886.8	3015.0	3135.0	3247.2	3346.3	3430.0	3498.6	3556.3
-60°	2172.3	2276.6	2391.0	2500.2	2600.8	2692.6	2783.8	2862.8	2930.4	2986.5	3031.7
-62.5°	1883.9	1975.7	2061.0	2143.7	2224.7	2304.6	2365.9	2421.7	2471.3	2514.0	2547.9
-65°	1606.4	1681.2	1747.7	1808.7	1864.5	1923.3	1971.6	2012.1	2044.7	2071.6	2093.2
-67.5°	1342.4	1401.0	1452.1	1495.8	1539.0	1579.6	1612.8	1640.1	1661.1	1678.9	1692.7
-70°	1108.1	1151.8	1188.5	1223.7	1259.4	1288.1	1309.7	1325.4	1335.4	1341.9	1346.5
-72.5°	900.0	940.8	974.0	1005.2	1031.5	1050.6	1064.3	1074.7	1081.7	1074.7	1062.2
-75°	708.3	747.4	785.1	817.2	844.0	856.3	862.3	866.5	868.9	845.7	815.3
-77.5°	542.8	582.9	617.9	650.0	679.2	684.7	683.9	682.4	680.0	647.7	608.5
-80°	381.6	413.3	443.3	473.0	502.3	505.6	502.3	496.2	487.6	455.9	420.0
-82.5°	233.8	252.5	270.3	288.1	305.7	310.2	311.5	310.9	308.4	284.3	257.5
-85°	108.2	115.9	123.0	129.9	136.4	142.6	148.4	153.8	158.7	145.0	129.8
-87.5°	21.2	21.8	22.4	23.0	23.5	23.9	24.3	24.7	25.0	23.7	22.3
-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: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-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°	20.8	19.3	19.4	19.4	19.4	19.3	20.8	22.3	23.7	25.0	24.7
85°	113.6	96.7	90.6	84.2	90.6	96.7	113.6	129.8	145.0	158.7	153.8
82.5°	229.4	200.2	190.9	181.4	190.9	200.2	229.4	257.5	284.3	308.4	310.9
80°	382.1	342.5	326.9	311.0	326.9	342.5	382.1	420.0	455.9	487.6	496.2
77.5°	567.1	523.7	505.1	486.0	505.1	523.7	567.1	608.5	647.7	680.0	682.4
75°	783.2	749.1	728.5	706.3	728.5	749.1	783.2	815.3	845.7	868.9	866.5
72.5°	1048.0	1031.3	1016.3	997.9	1016.3	1031.3	1048.0	1062.2	1074.7	1081.7	1074.7
70°	1348.0	1345.9	1348.6	1347.8	1348.6	1345.9	1348.0	1346.5	1341.9	1335.4	1325.4
67.5°	1699.7	1700.2	1707.5	1710.7	1707.5	1700.2	1699.7	1692.7	1678.9	1661.1	1640.1
65°	2106.6	2111.5	2109.6	2099.4	2109.6	2111.5	2106.6	2093.2	2071.6	2044.7	2012.1
62.5°	2572.1	2586.0	2593.7	2591.9	2593.7	2586.0	2572.1	2547.9	2514.0	2471.3	2421.7
60°	3065.5	3087.4	3098.4	3097.3	3098.4	3087.4	3065.5	3031.7	2986.5	2930.4	2862.8
57.5°	3599.3	3627.4	3634.0	3622.2	3634.0	3627.4	3599.3	3556.3	3498.6	3430.0	3346.3
55°	4188.0	4224.0	4237.9	4231.3	4237.9	4224.0	4188.0	4134.0	4062.4	3978.0	3877.2
52.5°	4810.6	4849.4	4863.2	4853.3	4863.2	4849.4	4810.6	4750.1	4667.6	4564.1	4443.5
50°	5457.2	5504.3	5523.3	5514.3	5523.3	5504.3	5457.2	5387.0	5291.4	5169.8	5029.4
47.5°	6143.6	6206.3	6230.6	6214.1	6230.6	6206.3	6143.6	6055.1	5942.2	5799.4	5624.4
45°	6865.8	6930.9	6956.1	6939.8	6956.1	6930.9	6865.8	6767.1	6635.0	6477.8	6298.1
42.5°	7601.0	7685.5	7721.2	7691.5	7721.2	7685.5	7601.0	7486.2	7336.1	7157.3	6952.4
40°	8349.1	8440.8	8483.1	8462.5	8483.1	8440.8	8349.1	8217.0	8040.0	7827.7	7596.6
37.5°	9116.4	9207.7	9252.5	9253.1	9252.5	9207.7	9116.4	8974.6	8778.1	8536.2	8275.5
35°	9886.6	9997.1	10059.6	10056.6	10059.6	9997.1	9886.6	9730.9	9529.9	9284.9	8977.6
32.5°	10667.6	10787.2	10851.1	10860.0	10851.1	10787.2	10667.6	10484.9	10253.8	9984.5	9668.4
30°	11447.3	11578.7	11652.7	11683.0	11652.7	11578.7	11447.3	11244.7	10985.5	10690.9	10350.9
27.5°	12203.3	12365.1	12476.8	12486.5	12476.8	12365.1	12203.3	11996.2	11722.9	11402.7	11031.8
25°	12935.5	13100.3	13214.8	13238.1	13214.8	13100.3	12935.5	12729.4	12448.5	12097.1	11700.8
22.5°	13657.3	13829.5	13935.2	13976.8	13935.2	13829.5	13657.3	13426.4	13115.5	12748.1	12328.2
20°	14346.2	14532.8	14644.9	14689.6	14644.9	14532.8	14346.2	14092.4	13749.8	13358.6	12914.3
17.5°	14969.5	15166.7	15305.1	15344.0	15305.1	15166.7	14969.5	14700.9	14342.1	13926.7	13447.3
15°	15518.0	15705.0	15836.5	15888.3	15836.5	15705.0	15518.0	15254.5	14890.6	14441.4	13909.1
12.5°	15964.5	16131.8	16234.8	16283.6	16234.8	16131.8	15964.5	15713.0	15378.5	14873.9	14314.9
10°	16313.3	16481.1	16579.4	16646.5	16579.4	16481.1	16313.3	16079.3	15705.8	15253.9	14704.6
7.5°	16616.1	16788.0	16908.3	17002.8	16908.3	16788.0	16616.1	16300.2	15967.0	15541.3	14986.8
5°	16783.2	17070.3	17113.5	17177.8	17113.5	17070.3	16783.2	16497.1	16133.7	15700.6	15159.3
2.5°	16910.6	17114.3	17236.7	17223.2	17236.7	17114.3	16910.6	16574.1	16226.1	15829.3	15305.1
0°	17002.8	17184.3	17229.6	17288.0	17229.6	17184.3	17002.8	16665.9	16303.0	15907.8	15363.5
-2.5°	16910.6	17114.3	17236.7	17223.2	17236.7	17114.3	16910.6	16574.1	16226.1	15829.3	15305.1
-5°	16783.2	17070.3	17113.5	17177.8	17113.5	17070.3	16783.2	16497.1	16133.7	15700.6	15159.3
-7.5°	16616.1	16788.0	16908.3	17002.8	16908.3	16788.0	16616.1	16300.2	15967.0	15541.3	14986.8
-10°	16313.3	16481.1	16579.4	16646.5	16579.4	16481.1	16313.3	16079.3	15705.8	15253.9	14704.6
-12.5°	15964.5	16131.8	16234.8	16283.6	16234.8	16131.8	15964.5	15713.0	15378.5	14873.9	14314.9
-15°	15518.0	15705.0	15836.5	15888.3	15836.5	15705.0	15518.0	15254.5	14890.6	14441.4	13909.1
-17.5°	14969.5	15166.7	15305.1	15344.0	15305.1	15166.7	14969.5	14700.9	14342.1	13926.7	13447.3
-20°	14346.2	14532.8	14644.9	14689.6	14644.9	14532.8	14346.2	14092.4	13749.8	13358.6	12914.3



REPORT NUMBER: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-735-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°	13657.3	13829.5	13935.2	13976.8	13935.2	13829.5	13657.3	13426.4	13115.5	12748.1	12328.2
-25°	12935.5	13100.3	13214.8	13238.1	13214.8	13100.3	12935.5	12729.4	12448.5	12097.1	11700.8
-27.5°	12203.3	12365.1	12476.8	12486.5	12476.8	12365.1	12203.3	11996.2	11722.9	11402.7	11031.8
-30°	11447.3	11578.7	11652.7	11683.0	11652.7	11578.7	11447.3	11244.7	10985.5	10690.9	10350.9
-32.5°	10667.6	10787.2	10851.1	10860.0	10851.1	10787.2	10667.6	10484.9	10253.8	9984.5	9668.4
-35°	9886.6	9997.1	10059.6	10056.6	10059.6	9997.1	9886.6	9730.9	9529.9	9284.9	8977.6
-37.5°	9116.4	9207.7	9252.5	9253.1	9252.5	9207.7	9116.4	8974.6	8778.1	8536.2	8275.5
-40°	8349.1	8440.8	8483.1	8462.5	8483.1	8440.8	8349.1	8217.0	8040.0	7827.7	7596.6
-42.5°	7601.0	7685.5	7721.2	7691.5	7721.2	7685.5	7601.0	7486.2	7336.1	7157.3	6952.4
-45°	6865.8	6930.9	6956.1	6939.8	6956.1	6930.9	6865.8	6767.1	6635.0	6477.8	6298.1
-47.5°	6143.6	6206.3	6230.6	6214.1	6230.6	6206.3	6143.6	6055.1	5942.2	5799.4	5624.4
-50°	5457.2	5504.3	5523.3	5514.3	5523.3	5504.3	5457.2	5387.0	5291.4	5169.8	5029.4
-52.5°	4810.6	4849.4	4863.2	4853.3	4863.2	4849.4	4810.6	4750.1	4667.6	4564.1	4443.5
-55°	4188.0	4224.0	4237.9	4231.3	4237.9	4224.0	4188.0	4134.0	4062.4	3978.0	3877.2
-57.5°	3599.3	3627.4	3634.0	3622.2	3634.0	3627.4	3599.3	3556.3	3498.6	3430.0	3346.3
-60°	3065.5	3087.4	3098.4	3097.3	3098.4	3087.4	3065.5	3031.7	2986.5	2930.4	2862.8
-62.5°	2572.1	2586.0	2593.7	2591.9	2593.7	2586.0	2572.1	2547.9	2514.0	2471.3	2421.7
-65°	2106.6	2111.5	2109.6	2099.4	2109.6	2111.5	2106.6	2093.2	2071.6	2044.7	2012.1
-67.5°	1699.7	1700.2	1707.5	1710.7	1707.5	1700.2	1699.7	1692.7	1678.9	1661.1	1640.1
-70°	1348.0	1345.9	1348.6	1347.8	1348.6	1345.9	1348.0	1346.5	1341.9	1335.4	1325.4
-72.5°	1048.0	1031.3	1016.3	997.9	1016.3	1031.3	1048.0	1062.2	1074.7	1081.7	1074.7
-75°	783.2	749.1	728.5	706.3	728.5	749.1	783.2	815.3	845.7	868.9	866.5
-77.5°	567.1	523.7	505.1	486.0	505.1	523.7	567.1	608.5	647.7	680.0	682.4
-80°	382.1	342.5	326.9	311.0	326.9	342.5	382.1	420.0	455.9	487.6	496.2
-82.5°	229.4	200.2	190.9	181.4	190.9	200.2	229.4	257.5	284.3	308.4	310.9
-85°	113.6	96.7	90.6	84.2	90.6	96.7	113.6	129.8	145.0	158.7	153.8
-87.5°	20.8	19.3	19.4	19.4	19.4	19.3	20.8	22.3	23.7	25.0	24.7
-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: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-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°	24.3	23.9	23.5	23.0	22.4	21.8	21.2	20.5	19.8	19.1	18.3
85°	148.4	142.6	136.4	129.9	123.0	115.9	108.2	94.9	82.5	71.0	61.0
82.5°	311.5	310.2	305.7	288.1	270.3	252.5	233.8	205.8	178.4	151.7	128.4
80°	502.3	505.6	502.3	473.0	443.3	413.3	381.6	340.7	299.4	260.1	230.7
77.5°	683.9	684.7	679.2	650.0	617.9	582.9	542.8	493.7	444.5	394.8	356.9
75°	862.3	856.3	844.0	817.2	785.1	747.4	708.3	665.1	614.7	556.7	507.1
72.5°	1064.3	1050.6	1031.5	1005.2	974.0	940.8	900.0	852.3	799.6	741.8	689.3
70°	1309.7	1288.1	1259.4	1223.7	1188.5	1151.8	1108.1	1055.7	994.2	930.4	871.9
67.5°	1612.8	1579.6	1539.0	1495.8	1452.1	1401.0	1342.4	1278.4	1214.9	1144.0	1063.9
65°	1971.6	1923.3	1864.5	1808.7	1747.7	1681.2	1606.4	1532.1	1454.5	1369.3	1267.7
62.5°	2365.9	2304.6	2224.7	2143.7	2061.0	1975.7	1883.9	1792.6	1699.9	1599.6	1485.2
60°	2783.8	2692.6	2600.8	2500.2	2391.0	2276.6	2172.3	2061.3	1944.1	1830.5	1705.1
57.5°	3247.2	3135.0	3015.0	2886.8	2751.1	2617.4	2482.3	2342.7	2210.1	2071.7	1929.7
55°	3760.8	3628.3	3477.7	3312.4	3141.3	2986.1	2817.2	2647.9	2488.2	2320.2	2163.8
52.5°	4307.8	4149.1	3974.5	3786.8	3592.1	3390.6	3185.3	2990.9	2783.0	2592.8	2403.7
50°	4872.0	4690.1	4488.9	4273.2	4056.7	3823.1	3588.2	3354.5	3118.9	2885.7	2659.1
47.5°	5444.9	5248.0	5024.3	4785.6	4537.7	4276.9	4009.5	3728.5	3467.9	3197.4	2940.0
45°	6074.7	5831.7	5581.0	5318.1	5034.7	4746.9	4447.0	4139.3	3825.8	3528.3	3226.6
42.5°	6708.1	6434.8	6144.9	5855.9	5546.6	5224.4	4889.8	4550.7	4206.2	3863.1	3533.4
40°	7339.0	7043.4	6727.3	6396.9	6059.7	5704.7	5338.4	4961.2	4587.1	4209.9	3836.8
37.5°	7984.4	7665.0	7322.6	6958.7	6581.0	6187.7	5784.7	5376.4	4963.8	4557.9	4153.2
35°	8646.4	8296.7	7918.8	7521.4	7105.7	6675.2	6233.0	5785.9	5342.1	4903.0	4464.6
32.5°	9302.4	8923.5	8516.1	8081.1	7623.5	7154.9	6679.6	6196.7	5711.0	5242.1	4775.1
30°	9963.9	9544.4	9102.9	8633.1	8136.9	7626.6	7111.7	6600.2	6082.5	5566.6	5072.6
27.5°	10612.1	10154.2	9674.5	9166.5	8636.5	8089.0	7535.7	6989.8	6437.5	5889.1	5356.4
25°	11242.9	10748.5	10219.4	9676.7	9114.7	8531.1	7936.5	7358.9	6782.2	6195.3	5611.2
22.5°	11850.0	11308.7	10738.4	10158.0	9566.7	8953.5	8319.4	7696.9	7100.2	6469.8	5859.5
20°	12409.8	11828.7	11219.7	10608.3	9983.0	9355.6	8676.1	8014.0	7372.1	6724.9	6084.6
17.5°	12906.5	12316.2	11677.3	11032.8	10367.2	9706.6	9009.6	8302.5	7622.4	6951.5	6282.7
15°	13344.3	12754.5	12107.5	11427.9	10717.2	9995.8	9291.9	8557.5	7850.5	7152.0	6465.9
12.5°	13741.9	13124.3	12478.3	11759.6	11005.1	10252.5	9520.5	8780.9	8053.4	7335.3	6630.7
10°	14098.8	13427.4	12743.8	12015.5	11246.0	10469.0	9715.3	8968.8	8226.0	7492.3	6766.5
7.5°	14343.3	13652.2	12945.8	12220.0	11449.3	10660.1	9883.7	9119.7	8360.6	7617.3	6872.5
5°	14523.9	13829.6	13121.0	12385.0	11607.2	10802.8	10007.9	9229.2	8456.4	7708.8	6948.1
2.5°	14662.6	13950.9	13240.5	12488.3	11709.3	10899.2	10096.8	9311.5	8532.4	7775.8	7014.8
0°	14760.9	13996.2	13309.4	12570.7	11773.7	10957.2	10153.8	9363.2	8579.2	7808.1	7050.0
-2.5°	14662.6	13950.9	13240.5	12488.3	11709.3	10899.2	10096.8	9311.5	8532.4	7775.8	7014.8
-5°	14523.9	13829.6	13121.0	12385.0	11607.2	10802.8	10007.9	9229.2	8456.4	7708.8	6948.1
-7.5°	14343.3	13652.2	12945.8	12220.0	11449.3	10660.1	9883.7	9119.7	8360.6	7617.3	6872.5
-10°	14098.8	13427.4	12743.8	12015.5	11246.0	10469.0	9715.3	8968.8	8226.0	7492.3	6766.5
-12.5°	13741.9	13124.3	12478.3	11759.6	11005.1	10252.5	9520.5	8780.9	8053.4	7335.3	6630.7
-15°	13344.3	12754.5	12107.5	11427.9	10717.2	9995.8	9291.9	8557.5	7850.5	7152.0	6465.9
-17.5°	12906.5	12316.2	11677.3	11032.8	10367.2	9706.6	9009.6	8302.5	7622.4	6951.5	6282.7
-20°	12409.8	11828.7	11219.7	10608.3	9983.0	9355.6	8676.1	8014.0	7372.1	6724.9	6084.6



REPORT NUMBER: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-735-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11850.0	11308.7	10738.4	10158.0	9566.7	8953.5	8319.4	7696.9	7100.2	6469.8	5859.5
-25°	11242.9	10748.5	10219.4	9676.7	9114.7	8531.1	7936.5	7358.9	6782.2	6195.3	5611.2
-27.5°	10612.1	10154.2	9674.5	9166.5	8636.5	8089.0	7535.7	6989.8	6437.5	5889.1	5356.4
-30°	9963.9	9544.4	9102.9	8633.1	8136.9	7626.6	7111.7	6600.2	6082.5	5566.6	5072.6
-32.5°	9302.4	8923.5	8516.1	8081.1	7623.5	7154.9	6679.6	6196.7	5711.0	5242.1	4775.1
-35°	8646.4	8296.7	7918.8	7521.4	7105.7	6675.2	6233.0	5785.9	5342.1	4903.0	4464.6
-37.5°	7984.4	7665.0	7322.6	6958.7	6581.0	6187.7	5784.7	5376.4	4963.8	4557.9	4153.2
-40°	7339.0	7043.4	6727.3	6396.9	6059.7	5704.7	5338.4	4961.2	4587.1	4209.9	3836.8
-42.5°	6708.1	6434.8	6144.9	5855.9	5546.6	5224.4	4889.8	4550.7	4206.2	3863.1	3533.4
-45°	6074.7	5831.7	5581.0	5318.1	5034.7	4746.9	4447.0	4139.3	3825.8	3528.3	3226.6
-47.5°	5444.9	5248.0	5024.3	4785.6	4537.7	4276.9	4009.5	3728.5	3467.9	3197.4	2940.0
-50°	4872.0	4690.1	4488.9	4273.2	4056.7	3823.1	3588.2	3354.5	3118.9	2885.7	2659.1
-52.5°	4307.8	4149.1	3974.5	3786.8	3592.1	3390.6	3185.3	2990.9	2783.0	2592.8	2403.7
-55°	3760.8	3628.3	3477.7	3312.4	3141.3	2986.1	2817.2	2647.9	2488.2	2320.2	2163.8
-57.5°	3247.2	3135.0	3015.0	2886.8	2751.1	2617.4	2482.3	2342.7	2210.1	2071.7	1929.7
-60°	2783.8	2692.6	2600.8	2500.2	2391.0	2276.6	2172.3	2061.3	1944.1	1830.5	1705.1
-62.5°	2365.9	2304.6	2224.7	2143.7	2061.0	1975.7	1883.9	1792.6	1699.9	1599.6	1485.2
-65°	1971.6	1923.3	1864.5	1808.7	1747.7	1681.2	1606.4	1532.1	1454.5	1369.3	1267.7
-67.5°	1612.8	1579.6	1539.0	1495.8	1452.1	1401.0	1342.4	1278.4	1214.9	1144.0	1063.9
-70°	1309.7	1288.1	1259.4	1223.7	1188.5	1151.8	1108.1	1055.7	994.2	930.4	871.9
-72.5°	1064.3	1050.6	1031.5	1005.2	974.0	940.8	900.0	852.3	799.6	741.8	689.3
-75°	862.3	856.3	844.0	817.2	785.1	747.4	708.3	665.1	614.7	556.7	507.1
-77.5°	683.9	684.7	679.2	650.0	617.9	582.9	542.8	493.7	444.5	394.8	356.9
-80°	502.3	505.6	502.3	473.0	443.3	413.3	381.6	340.7	299.4	260.1	230.7
-82.5°	311.5	310.2	305.7	288.1	270.3	252.5	233.8	205.8	178.4	151.7	128.4
-85°	148.4	142.6	136.4	129.9	123.0	115.9	108.2	94.9	82.5	71.0	61.0
-87.5°	24.3	23.9	23.5	23.0	22.4	21.8	21.2	20.5	19.8	19.1	18.3
-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: P627461 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-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°	18.6	18.7	18.7	18.6	16.5	14.6	12.7	10.9	9.9	8.9	7.8
85°	61.3	59.8	56.6	51.3	40.4	29.1	25.3	21.9	19.8	17.7	15.6
82.5°	128.0	129.3	129.2	125.3	110.6	95.1	78.8	62.0	45.9	29.2	23.3
80°	231.0	228.5	223.1	212.6	188.3	161.0	140.4	119.1	98.2	76.4	53.7
77.5°	349.3	339.3	327.1	313.2	287.6	257.4	222.7	183.4	150.2	123.4	95.5
75°	481.5	465.5	448.4	425.4	392.4	354.6	316.5	270.7	219.8	171.8	136.9
72.5°	647.2	608.8	574.4	542.0	506.2	464.1	415.5	356.4	294.6	236.2	181.4
70°	815.2	757.5	706.0	661.9	618.8	574.6	521.2	448.4	368.0	299.3	234.8
67.5°	985.7	917.5	848.6	782.6	728.2	676.2	624.6	540.0	447.8	361.0	287.0
65°	1173.8	1082.8	995.3	913.8	839.9	774.9	714.4	625.7	525.3	427.6	337.7
62.5°	1367.6	1251.5	1147.9	1043.9	951.9	872.9	800.2	702.3	599.3	492.0	390.7
60°	1571.4	1439.1	1301.4	1180.0	1067.3	967.3	879.2	777.9	668.5	554.0	443.3
57.5°	1785.9	1630.5	1475.7	1322.3	1186.9	1066.9	956.2	849.6	736.6	615.2	492.3
55°	2003.3	1835.9	1652.8	1479.8	1313.8	1171.1	1037.6	918.3	802.3	675.3	534.7
52.5°	2220.9	2037.0	1840.6	1640.7	1454.9	1276.2	1127.1	985.3	862.8	734.0	578.7
50°	2448.6	2237.7	2027.2	1811.4	1595.2	1399.5	1213.5	1062.2	921.5	789.8	620.5
47.5°	2685.5	2450.5	2216.3	1980.5	1748.6	1517.4	1314.5	1137.4	978.4	840.3	659.4
45°	2945.2	2670.5	2411.1	2156.1	1893.9	1644.8	1416.7	1209.4	1042.7	879.6	695.2
42.5°	3204.8	2902.6	2612.8	2329.1	2046.0	1771.4	1513.6	1294.1	1104.2	917.2	728.2
40°	3480.8	3135.5	2814.3	2506.5	2194.6	1891.8	1620.9	1376.7	1161.8	956.3	759.4
37.5°	3749.3	3374.3	3021.3	2675.8	2340.1	2021.8	1724.0	1454.2	1216.5	1000.1	789.0
35°	4033.3	3614.1	3212.6	2846.3	2489.9	2145.2	1820.6	1532.3	1279.5	1042.9	816.9
32.5°	4307.8	3848.7	3418.1	3014.4	2633.0	2261.4	1920.0	1614.9	1340.0	1084.4	843.0
30°	4577.6	4084.1	3615.0	3173.4	2771.6	2383.3	2019.6	1692.2	1397.9	1124.4	869.1
27.5°	4826.2	4302.1	3803.7	3337.8	2907.8	2499.0	2113.7	1763.9	1452.8	1165.6	899.4
25°	5057.9	4511.9	3989.7	3495.9	3034.2	2608.6	2200.4	1830.2	1508.7	1208.6	927.5
22.5°	5275.2	4706.7	4158.3	3641.6	3151.3	2709.2	2284.9	1900.8	1561.6	1248.2	953.3
20°	5472.8	4882.1	4309.2	3773.6	3265.2	2805.0	2366.2	1964.1	1608.9	1284.1	976.5
17.5°	5650.8	5042.5	4453.4	3897.0	3371.3	2890.2	2438.4	2020.0	1650.4	1316.1	997.0
15°	5816.0	5188.2	4580.7	4004.7	3463.2	2964.4	2501.3	2068.1	1686.0	1343.9	1016.5
12.5°	5958.0	5313.2	4688.8	4096.3	3540.5	3027.2	2554.4	2108.4	1715.5	1369.0	1034.8
10°	6074.9	5416.5	4777.1	4171.1	3603.1	3078.3	2597.6	2142.4	1743.2	1390.7	1048.9
7.5°	6165.9	5497.4	4845.1	4228.8	3652.7	3121.0	2634.4	2171.7	1765.6	1407.4	1058.8
5°	6234.8	5560.6	4904.3	4277.2	3698.4	3155.5	2661.1	2192.7	1781.8	1418.9	1064.3
2.5°	6296.1	5608.0	4950.7	4308.6	3729.4	3178.0	2677.2	2205.4	1791.6	1425.0	1065.7
0°	6330.7	5630.9	4976.4	4322.0	3745.3	3188.0	2682.6	2209.6	1794.9	1425.5	1062.7
-2.5°	6296.1	5608.0	4950.7	4308.6	3729.4	3178.0	2677.2	2205.4	1791.6	1425.0	1065.7
-5°	6234.8	5560.6	4904.3	4277.2	3698.4	3155.5	2661.1	2192.7	1781.8	1418.9	1064.3
-7.5°	6165.9	5497.4	4845.1	4228.8	3652.7	3121.0	2634.4	2171.7	1765.6	1407.4	1058.8
-10°	6074.9	5416.5	4777.1	4171.1	3603.1	3078.3	2597.6	2142.4	1743.2	1390.7	1048.9
-12.5°	5958.0	5313.2	4688.8	4096.3	3540.5	3027.2	2554.4	2108.4	1715.5	1369.0	1034.8
-15°	5816.0	5188.2	4580.7	4004.7	3463.2	2964.4	2501.3	2068.1	1686.0	1343.9	1016.5
-17.5°	5650.8	5042.5	4453.4	3897.0	3371.3	2890.2	2438.4	2020.0	1650.4	1316.1	997.0
-20°	5472.8	4882.1	4309.2	3773.6	3265.2	2805.0	2366.2	1964.1	1608.9	1284.1	976.5



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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°	5275.2	4706.7	4158.3	3641.6	3151.3	2709.2	2284.9	1900.8	1561.6	1248.2	953.3
-25°	5057.9	4511.9	3989.7	3495.9	3034.2	2608.6	2200.4	1830.2	1508.7	1208.6	927.5
-27.5°	4826.2	4302.1	3803.7	3337.8	2907.8	2499.0	2113.7	1763.9	1452.8	1165.6	899.4
-30°	4577.6	4084.1	3615.0	3173.4	2771.6	2383.3	2019.6	1692.2	1397.9	1124.4	869.1
-32.5°	4307.8	3848.7	3418.1	3014.4	2633.0	2261.4	1920.0	1614.9	1340.0	1084.4	843.0
-35°	4033.3	3614.1	3212.6	2846.3	2489.9	2145.2	1820.6	1532.3	1279.5	1042.9	816.9
-37.5°	3749.3	3374.3	3021.3	2675.8	2340.1	2021.8	1724.0	1454.2	1216.5	1000.1	789.0
-40°	3480.8	3135.5	2814.3	2506.5	2194.6	1891.8	1620.9	1376.7	1161.8	956.3	759.4
-42.5°	3204.8	2902.6	2612.8	2329.1	2046.0	1771.4	1513.6	1294.1	1104.2	917.2	728.2
-45°	2945.2	2670.5	2411.1	2156.1	1893.9	1644.8	1416.7	1209.4	1042.7	879.6	695.2
-47.5°	2685.5	2450.5	2216.3	1980.5	1748.6	1517.4	1314.5	1137.4	978.4	840.3	659.4
-50°	2448.6	2237.7	2027.2	1811.4	1595.2	1399.5	1213.5	1062.2	921.5	789.8	620.5
-52.5°	2220.9	2037.0	1840.6	1640.7	1454.9	1276.2	1127.1	985.3	862.8	734.0	578.7
-55°	2003.3	1835.9	1652.8	1479.8	1313.8	1171.1	1037.6	918.3	802.3	675.3	534.7
-57.5°	1785.9	1630.5	1475.7	1322.3	1186.9	1066.9	956.2	849.6	736.6	615.2	492.3
-60°	1571.4	1439.1	1301.4	1180.0	1067.3	967.3	879.2	777.9	668.5	554.0	443.3
-62.5°	1367.6	1251.5	1147.9	1043.9	951.9	872.9	800.2	702.3	599.3	492.0	390.7
-65°	1173.8	1082.8	995.3	913.8	839.9	774.9	714.4	625.7	525.3	427.6	337.7
-67.5°	985.7	917.5	848.6	782.6	728.2	676.2	624.6	540.0	447.8	361.0	287.0
-70°	815.2	757.5	706.0	661.9	618.8	574.6	521.2	448.4	368.0	299.3	234.8
-72.5°	647.2	608.8	574.4	542.0	506.2	464.1	415.5	356.4	294.6	236.2	181.4
-75°	481.5	465.5	448.4	425.4	392.4	354.6	316.5	270.7	219.8	171.8	136.9
-77.5°	349.3	339.3	327.1	313.2	287.6	257.4	222.7	183.4	150.2	123.4	95.5
-80°	231.0	228.5	223.1	212.6	188.3	161.0	140.4	119.1	98.2	76.4	53.7
-82.5°	128.0	129.3	129.2	125.3	110.6	95.1	78.8	62.0	45.9	29.2	23.3
-85°	61.3	59.8	56.6	51.3	40.4	29.1	25.3	21.9	19.8	17.7	15.6
-87.5°	18.6	18.7	18.7	18.6	16.5	14.6	12.7	10.9	9.9	8.9	7.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	5.6	4.5	3.4	2.3	1.0	0.0
85°	13.4	11.2	9.0	6.8	4.5	2.0	0.0
82.5°	20.1	16.8	13.5	10.1	6.7	3.0	0.0
80°	30.2	22.3	17.9	13.5	8.9	3.9	0.0
77.5°	65.8	35.0	22.3	16.8	11.1	4.9	0.0
75°	100.5	60.6	29.1	20.1	13.3	5.8	0.0
72.5°	134.2	85.4	46.4	23.3	15.4	6.8	0.0
70°	167.8	109.4	63.1	27.9	17.4	7.7	0.0
67.5°	208.2	132.3	79.2	38.3	19.4	8.6	0.0
65°	246.8	158.0	94.5	48.2	21.4	9.4	0.0
62.5°	283.5	186.1	109.0	57.7	23.2	10.3	0.0
60°	318.0	212.8	122.7	66.6	25.0	11.1	0.0
57.5°	354.4	237.8	140.9	75.1	30.1	11.9	0.0
55°	388.9	261.0	158.3	83.0	35.0	12.7	0.0
52.5°	420.8	283.1	174.4	90.2	39.7	13.4	0.0
50°	450.0	306.5	189.3	96.9	44.2	14.1	0.0
47.5°	477.4	327.9	202.8	103.8	48.6	14.7	0.0
45°	507.8	347.2	215.0	112.8	52.7	15.3	0.0
42.5°	535.8	364.4	225.9	120.9	56.6	15.9	0.0
40°	561.1	379.4	236.7	129.3	60.2	16.5	0.0
37.5°	583.8	392.2	247.4	137.5	63.7	17.0	0.0
35°	603.8	407.0	256.7	145.2	66.8	17.4	0.0
32.5°	622.3	421.8	264.4	152.3	69.8	17.8	0.0
30°	641.6	434.5	270.6	158.7	72.4	18.2	0.0
27.5°	658.9	445.0	279.8	164.6	74.9	18.5	0.0
25°	674.1	453.3	288.5	169.9	77.0	18.8	0.0
22.5°	687.1	461.6	296.2	174.5	78.9	19.1	0.0
20°	697.8	473.1	302.7	178.5	80.6	19.3	0.0
17.5°	711.3	482.5	308.3	181.9	81.9	19.4	0.0
15°	725.3	489.8	312.7	184.6	83.0	19.6	0.0
12.5°	736.7	495.0	316.1	186.7	83.9	19.6	0.0
10°	745.4	498.3	318.5	188.2	84.5	19.7	0.0
7.5°	751.3	499.6	319.8	189.0	84.8	19.7	0.0
5°	754.4	499.1	320.1	189.3	84.8	19.6	0.0
2.5°	754.5	496.7	319.3	188.9	84.6	19.5	0.0
0°	751.7	492.5	317.5	187.9	84.2	19.4	0.0
-2.5°	754.5	496.7	319.3	188.9	84.6	19.5	0.0
-5°	754.4	499.1	320.1	189.3	84.8	19.6	0.0
-7.5°	751.3	499.6	319.8	189.0	84.8	19.7	0.0
-10°	745.4	498.3	318.5	188.2	84.5	19.7	0.0
-12.5°	736.7	495.0	316.1	186.7	83.9	19.6	0.0
-15°	725.3	489.8	312.7	184.6	83.0	19.6	0.0
-17.5°	711.3	482.5	308.3	181.9	81.9	19.4	0.0
-20°	697.8	473.1	302.7	178.5	80.6	19.3	0.0

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CATALOG NUMBER: GFLD-SA4D-735-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	687.1	461.6	296.2	174.5	78.9	19.1	0.0
-25°	674.1	453.3	288.5	169.9	77.0	18.8	0.0
-27.5°	658.9	445.0	279.8	164.6	74.9	18.5	0.0
-30°	641.6	434.5	270.6	158.7	72.4	18.2	0.0
-32.5°	622.3	421.8	264.4	152.3	69.8	17.8	0.0
-35°	603.8	407.0	256.7	145.2	66.8	17.4	0.0
-37.5°	583.8	392.2	247.4	137.5	63.7	17.0	0.0
-40°	561.1	379.4	236.7	129.3	60.2	16.5	0.0
-42.5°	535.8	364.4	225.9	120.9	56.6	15.9	0.0
-45°	507.8	347.2	215.0	112.8	52.7	15.3	0.0
-47.5°	477.4	327.9	202.8	103.8	48.6	14.7	0.0
-50°	450.0	306.5	189.3	96.9	44.2	14.1	0.0
-52.5°	420.8	283.1	174.4	90.2	39.7	13.4	0.0
-55°	388.9	261.0	158.3	83.0	35.0	12.7	0.0
-57.5°	354.4	237.8	140.9	75.1	30.1	11.9	0.0
-60°	318.0	212.8	122.7	66.6	25.0	11.1	0.0
-62.5°	283.5	186.1	109.0	57.7	23.2	10.3	0.0
-65°	246.8	158.0	94.5	48.2	21.4	9.4	0.0
-67.5°	208.2	132.3	79.2	38.3	19.4	8.6	0.0
-70°	167.8	109.4	63.1	27.9	17.4	7.7	0.0
-72.5°	134.2	85.4	46.4	23.3	15.4	6.8	0.0
-75°	100.5	60.6	29.1	20.1	13.3	5.8	0.0
-77.5°	65.8	35.0	22.3	16.8	11.1	4.9	0.0
-80°	30.2	22.3	17.9	13.5	8.9	3.9	0.0
-82.5°	20.1	16.8	13.5	10.1	6.7	3.0	0.0
-85°	13.4	11.2	9.0	6.8	4.5	2.0	0.0
-87.5°	6.7	5.6	4.5	3.4	2.3	1.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)