

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



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA4B-727-U-LAM-XX

Issue Date: 2/28/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4B-727-U-LAM-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, LAMBERTIAN  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

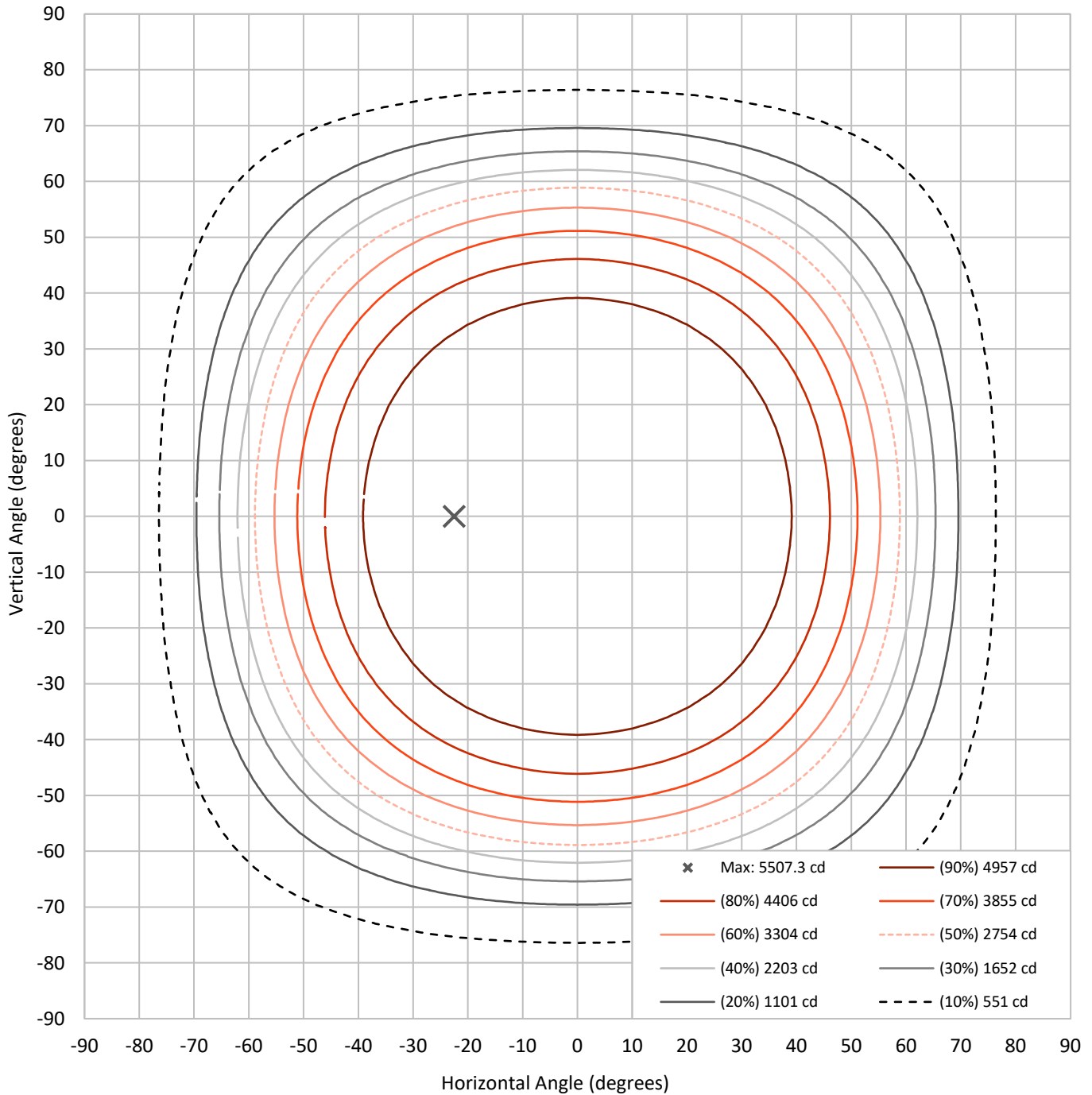
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16847.2 lumens	Max Intensity:	5507.3 candela
Efficiency:	N/A	Max Intensity Angle:	-22.5°H x 0°V
Efficacy:	130.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	117.8°H x 112°V	Field Angle (10%):	152.8°H x 150.5°V
Beam Lumens:	14020.5 lumens	Field Lumens:	16515.9 lumens
Beam Efficiency:	83.2%	Field Efficiency:	98.0%
Input Watts (W):	129.5		
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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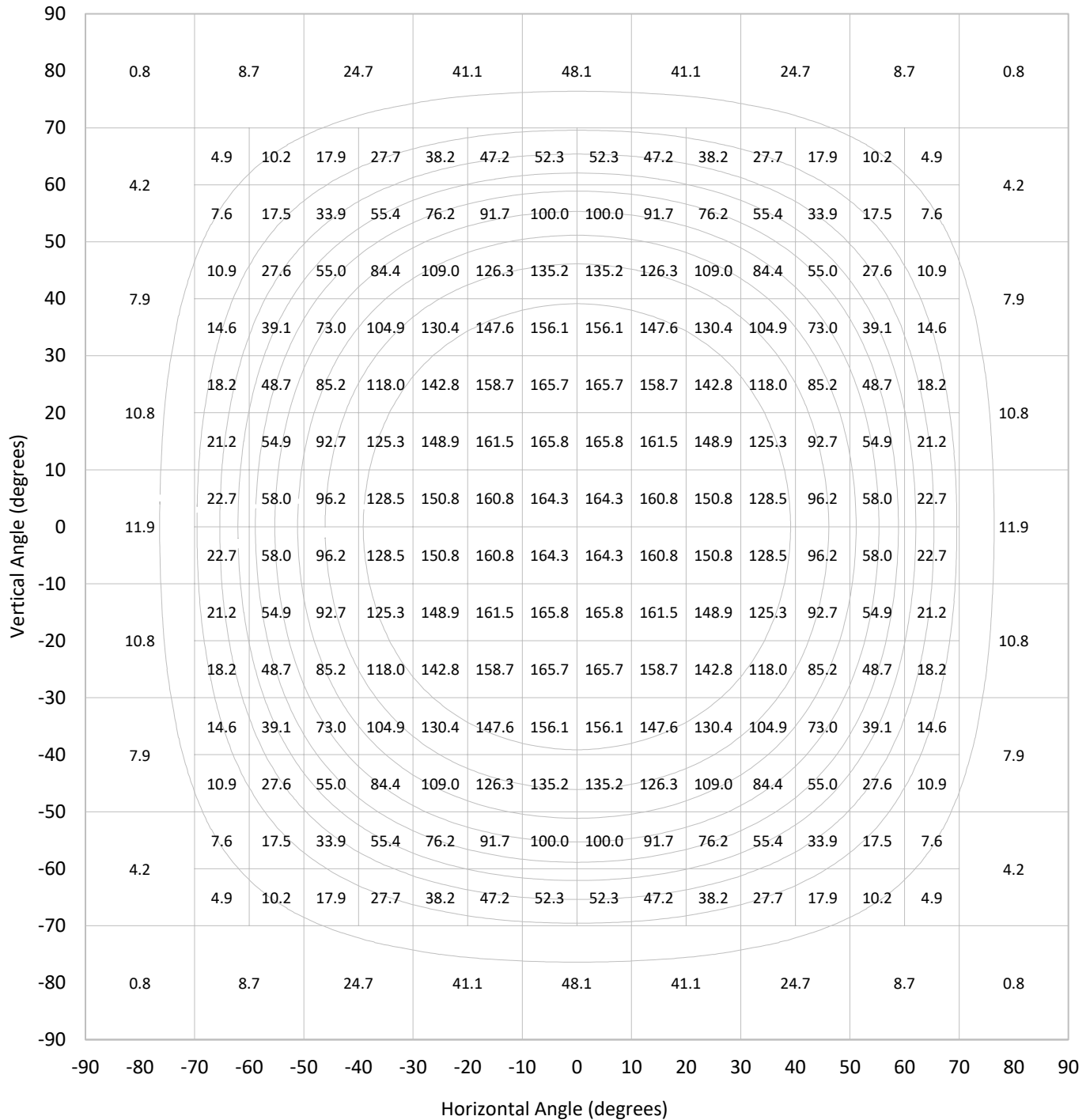
### Iso-Candela Plot





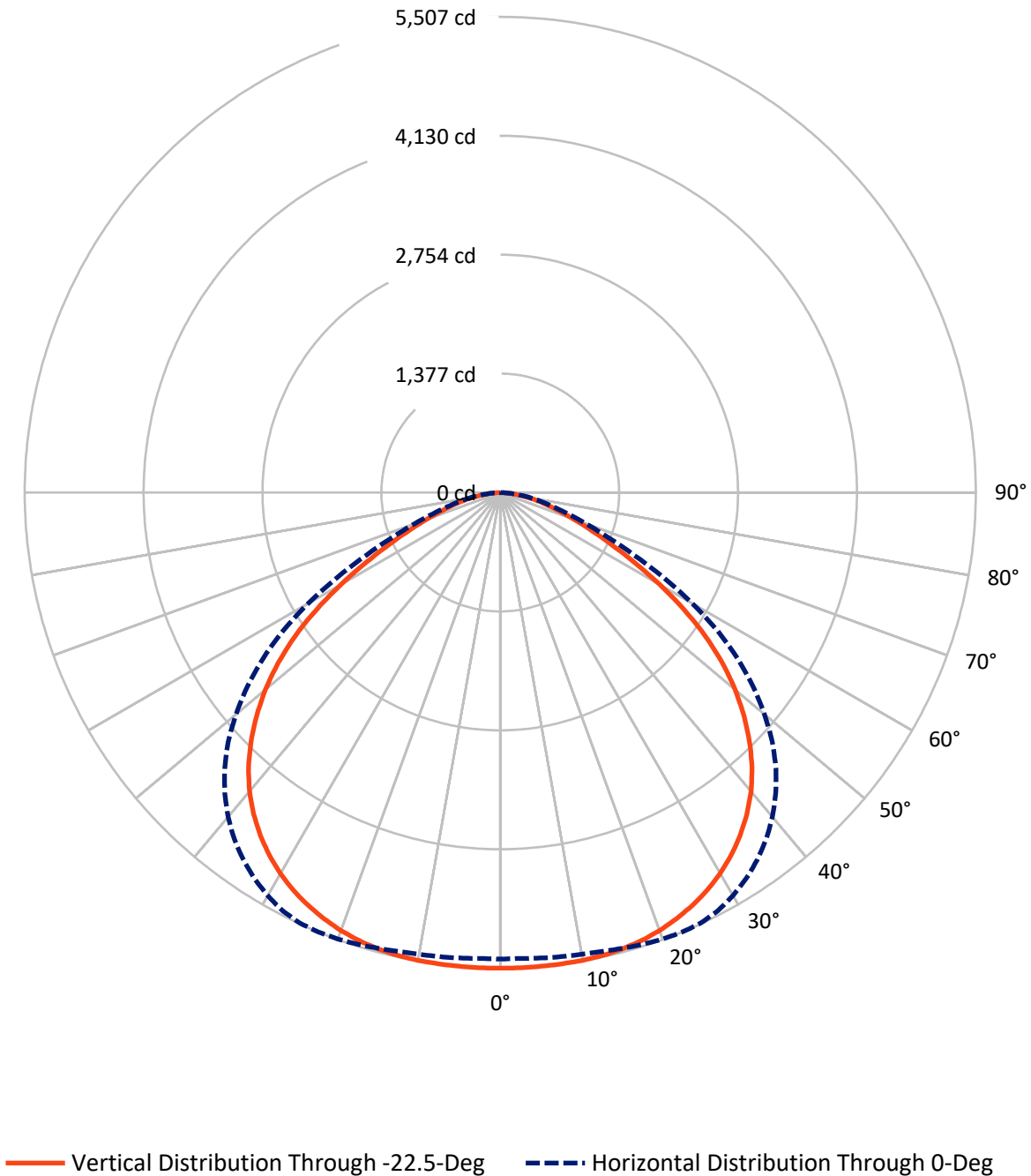
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### Lumen Table



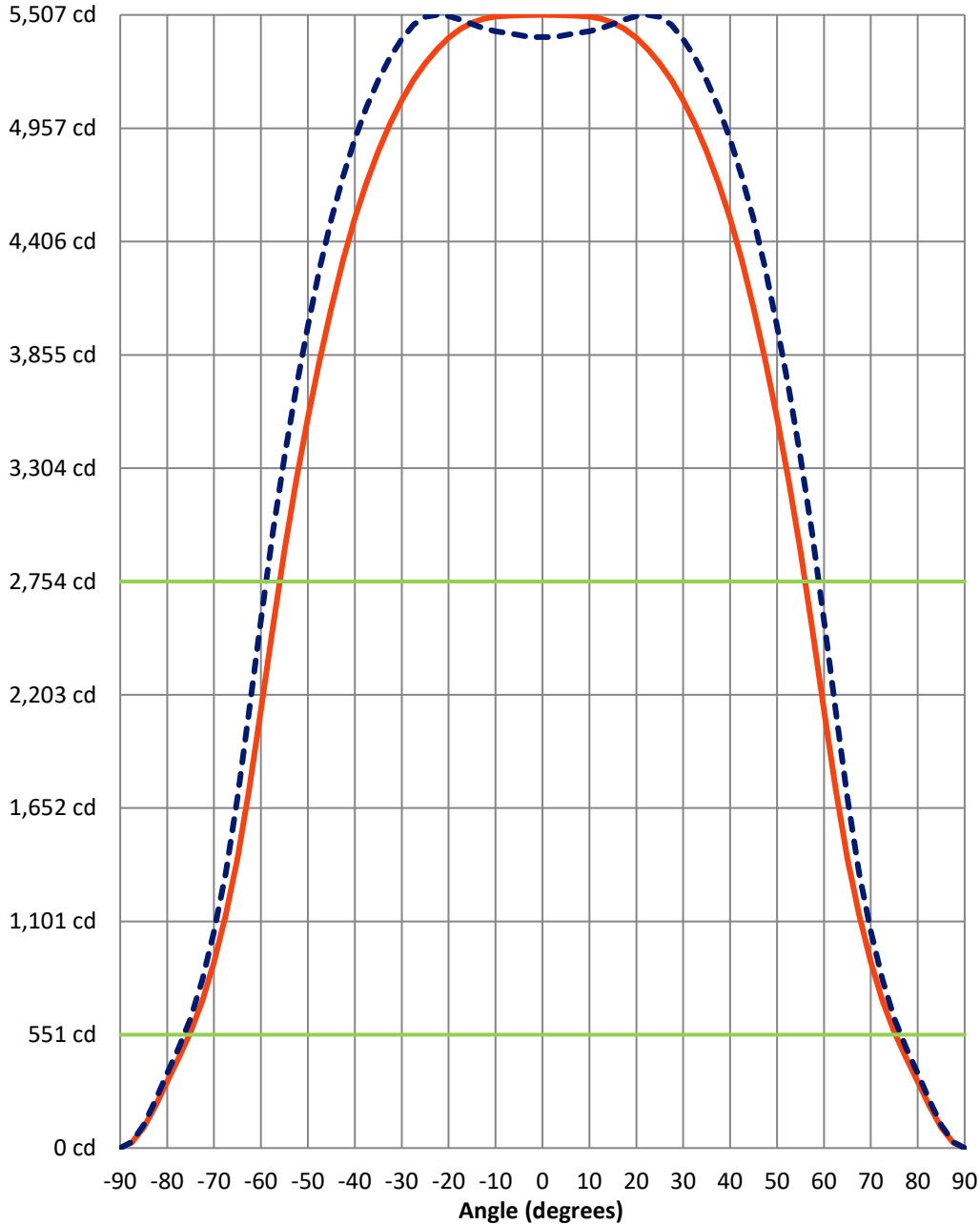
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 117.8°  
 V Angle: 112°  
 Lumens: 14020.5  
 Efficiency: 83.2%

**Field:**  
 H Angle: 152.8°  
 V Angle: 150.5°  
 Lumens: 16515.9  
 Efficiency: 98.0%

**Spill:**  
 Lumens: 331.3  
 Efficiency: 2.0%

— Vertical Distribution through -22.5-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	1.3	2.6	3.9	5.2	6.5	7.8	9.0	10.3	11.5	12.7
85°	0.0	2.6	5.2	7.8	10.4	13.0	15.6	18.1	20.6	23.0	25.4
82.5°	0.0	3.9	7.8	11.8	15.6	19.5	23.3	27.1	32.0	42.0	51.8
80°	0.0	5.2	10.4	15.6	20.8	25.9	32.6	46.3	59.8	73.1	86.1
77.5°	0.0	6.5	13.0	19.5	25.9	36.2	53.4	70.5	87.3	103.9	123.9
75°	0.0	7.8	15.6	23.3	32.6	53.4	74.1	94.5	115.8	144.8	173.2
72.5°	0.0	9.0	18.1	27.1	46.3	70.5	94.5	121.1	155.2	188.8	221.9
70°	0.0	10.3	20.6	32.0	59.8	87.3	115.8	155.2	194.1	232.5	274.0
67.5°	0.0	11.5	23.0	42.0	73.1	103.9	144.8	188.8	232.5	279.8	326.3
65°	0.0	12.7	25.4	51.8	86.1	123.9	173.2	221.9	274.0	326.3	377.2
62.5°	0.0	13.9	27.8	61.4	98.9	147.2	201.0	256.7	314.7	371.6	425.6
60°	0.0	15.0	30.1	70.8	111.5	170.0	228.3	291.7	354.6	414.4	473.0
57.5°	0.0	16.2	36.1	80.0	129.0	192.2	257.3	325.8	392.3	456.3	523.6
55°	0.0	17.3	42.1	88.9	146.3	213.8	285.9	359.1	428.6	498.3	575.0
52.5°	0.0	18.3	47.9	97.6	163.1	235.1	313.6	390.2	463.9	543.4	625.1
50°	0.0	19.3	53.4	106.0	179.3	257.5	340.5	420.1	499.5	587.1	687.3
47.5°	0.0	20.3	58.8	114.9	195.0	279.1	366.2	449.0	537.0	629.3	749.1
45°	0.0	21.3	64.0	126.2	210.1	299.9	390.1	476.9	573.2	682.6	808.7
42.5°	0.0	22.2	68.9	137.0	224.5	319.8	412.9	505.7	607.9	734.0	879.0
40°	0.0	23.1	73.7	147.3	239.0	338.7	434.7	534.6	644.4	783.2	948.4
37.5°	0.0	23.9	78.1	157.1	253.4	356.8	455.5	562.2	685.9	833.6	1014.6
35°	0.0	24.7	82.4	166.4	267.0	373.4	475.1	588.2	725.2	889.7	1082.1
32.5°	0.0	25.4	86.4	175.1	279.8	388.7	494.3	612.7	762.2	942.7	1153.1
30°	0.0	26.1	90.1	183.2	291.8	403.0	513.8	637.4	796.9	992.3	1219.7
27.5°	0.0	26.7	93.5	190.8	302.8	416.3	532.0	665.4	832.3	1038.5	1281.7
25°	0.0	27.3	96.7	197.7	313.1	428.5	548.7	691.2	869.8	1086.5	1339.6
22.5°	0.0	27.8	99.6	204.0	322.4	439.7	564.0	714.7	904.1	1133.1	1407.2
20°	0.0	28.3	102.2	209.7	330.7	449.7	577.7	735.9	934.9	1175.2	1468.2
17.5°	0.0	28.7	104.5	214.7	338.2	458.6	589.9	754.8	962.4	1212.6	1522.5
15°	0.0	29.1	106.5	219.1	344.6	466.4	600.6	771.2	986.3	1245.2	1569.9
12.5°	0.0	29.4	108.2	222.9	350.1	473.0	609.6	785.1	1006.7	1272.9	1610.2
10°	0.0	29.6	109.6	225.9	354.6	478.4	617.0	796.6	1023.4	1295.7	1643.4
7.5°	0.0	29.8	110.7	228.3	358.2	482.7	622.8	805.6	1036.5	1313.5	1669.3
5°	0.0	30.0	111.5	230.0	360.7	485.7	627.0	812.0	1045.8	1326.3	1687.9
2.5°	0.0	30.1	111.9	231.1	362.2	487.5	629.5	815.8	1051.4	1333.9	1699.1
0°	0.0	30.1	112.1	231.4	362.7	488.1	630.3	817.1	1053.3	1336.5	1702.8
-2.5°	0.0	30.1	111.9	231.1	362.2	487.5	629.5	815.8	1051.4	1333.9	1699.1
-5°	0.0	30.0	111.5	230.0	360.7	485.7	627.0	812.0	1045.8	1326.3	1687.9
-7.5°	0.0	29.8	110.7	228.3	358.2	482.7	622.8	805.6	1036.5	1313.5	1669.3
-10°	0.0	29.6	109.6	225.9	354.6	478.4	617.0	796.6	1023.4	1295.7	1643.4
-12.5°	0.0	29.4	108.2	222.9	350.1	473.0	609.6	785.1	1006.7	1272.9	1610.2
-15°	0.0	29.1	106.5	219.1	344.6	466.4	600.6	771.2	986.3	1245.2	1569.9
-17.5°	0.0	28.7	104.5	214.7	338.2	458.6	589.9	754.8	962.4	1212.6	1522.5
-20°	0.0	28.3	102.2	209.7	330.7	449.7	577.7	735.9	934.9	1175.2	1468.2

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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	27.8	99.6	204.0	322.4	439.7	564.0	714.7	904.1	1133.1	1407.2
-25°	0.0	27.3	96.7	197.7	313.1	428.5	548.7	691.2	869.8	1086.5	1339.6
-27.5°	0.0	26.7	93.5	190.8	302.8	416.3	532.0	665.4	832.3	1038.5	1281.7
-30°	0.0	26.1	90.1	183.2	291.8	403.0	513.8	637.4	796.9	992.3	1219.7
-32.5°	0.0	25.4	86.4	175.1	279.8	388.7	494.3	612.7	762.2	942.7	1153.1
-35°	0.0	24.7	82.4	166.4	267.0	373.4	475.1	588.2	725.2	889.7	1082.1
-37.5°	0.0	23.9	78.1	157.1	253.4	356.8	455.5	562.2	685.9	833.6	1014.6
-40°	0.0	23.1	73.7	147.3	239.0	338.7	434.7	534.6	644.4	783.2	948.4
-42.5°	0.0	22.2	68.9	137.0	224.5	319.8	412.9	505.7	607.9	734.0	879.0
-45°	0.0	21.3	64.0	126.2	210.1	299.9	390.1	476.9	573.2	682.6	808.7
-47.5°	0.0	20.3	58.8	114.9	195.0	279.1	366.2	449.0	537.0	629.3	749.1
-50°	0.0	19.3	53.4	106.0	179.3	257.5	340.5	420.1	499.5	587.1	687.3
-52.5°	0.0	18.3	47.9	97.6	163.1	235.1	313.6	390.2	463.9	543.4	625.1
-55°	0.0	17.3	42.1	88.9	146.3	213.8	285.9	359.1	428.6	498.3	575.0
-57.5°	0.0	16.2	36.1	80.0	129.0	192.2	257.3	325.8	392.3	456.3	523.6
-60°	0.0	15.0	30.1	70.8	111.5	170.0	228.3	291.7	354.6	414.4	473.0
-62.5°	0.0	13.9	27.8	61.4	98.9	147.2	201.0	256.7	314.7	371.6	425.6
-65°	0.0	12.7	25.4	51.8	86.1	123.9	173.2	221.9	274.0	326.3	377.2
-67.5°	0.0	11.5	23.0	42.0	73.1	103.9	144.8	188.8	232.5	279.8	326.3
-70°	0.0	10.3	20.6	32.0	59.8	87.3	115.8	155.2	194.1	232.5	274.0
-72.5°	0.0	9.0	18.1	27.1	46.3	70.5	94.5	121.1	155.2	188.8	221.9
-75°	0.0	7.8	15.6	23.3	32.6	53.4	74.1	94.5	115.8	144.8	173.2
-77.5°	0.0	6.5	13.0	19.5	25.9	36.2	53.4	70.5	87.3	103.9	123.9
-80°	0.0	5.2	10.4	15.6	20.8	25.9	32.6	46.3	59.8	73.1	86.1
-82.5°	0.0	3.9	7.8	11.8	15.6	19.5	23.3	27.1	32.0	42.0	51.8
-85°	0.0	2.6	5.2	7.8	10.4	13.0	15.6	18.1	20.6	23.0	25.4
-87.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.0	10.3	11.5	12.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**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°	13.9	15.0	16.2	17.3	18.3	19.3	20.3	21.3	22.2	23.1	23.9
85°	27.8	30.1	36.1	42.1	47.9	53.4	58.8	64.0	68.9	73.7	78.1
82.5°	61.4	70.8	80.0	88.9	97.6	106.0	114.9	126.2	137.0	147.3	157.1
80°	98.9	111.5	129.0	146.3	163.1	179.3	195.0	210.1	224.5	239.0	253.4
77.5°	147.2	170.0	192.2	213.8	235.1	257.5	279.1	299.9	319.8	338.7	356.8
75°	201.0	228.3	257.3	285.9	313.6	340.5	366.2	390.1	412.9	434.7	455.5
72.5°	256.7	291.7	325.8	359.1	390.2	420.1	449.0	476.9	505.7	534.6	562.2
70°	314.7	354.6	392.3	428.6	463.9	499.5	537.0	573.2	607.9	644.4	685.9
67.5°	371.6	414.4	456.3	498.3	543.4	587.1	629.3	682.6	734.0	783.2	833.6
65°	425.6	473.0	523.6	575.0	625.1	687.3	749.1	808.7	879.0	948.4	1014.6
62.5°	478.6	536.4	594.2	657.0	729.3	799.6	881.1	964.2	1044.2	1134.3	1222.0
60°	536.4	600.6	673.9	754.8	838.0	934.9	1029.0	1133.1	1238.1	1339.6	1464.1
57.5°	594.2	673.9	763.3	859.6	967.5	1076.4	1198.8	1317.2	1459.1	1601.0	1742.1
55°	657.0	754.8	859.6	978.4	1102.8	1238.5	1380.3	1545.7	1705.7	1884.0	2054.7
52.5°	729.3	838.0	967.5	1102.8	1251.8	1415.0	1598.0	1787.3	1986.7	2180.3	2370.2
50°	799.6	934.9	1076.4	1238.5	1415.0	1615.5	1828.4	2048.9	2266.6	2478.9	2677.8
47.5°	881.1	1029.0	1198.8	1380.3	1598.0	1828.4	2069.7	2310.0	2544.8	2762.6	2971.2
45°	964.2	1133.1	1317.2	1545.7	1787.3	2048.9	2310.0	2566.9	2805.4	3030.4	3227.3
42.5°	1044.2	1238.1	1459.1	1705.7	1986.7	2266.6	2544.8	2805.4	3049.7	3266.5	3464.3
40°	1134.3	1339.6	1601.0	1884.0	2180.3	2478.9	2762.6	3030.4	3266.5	3482.3	3682.6
37.5°	1222.0	1464.1	1742.1	2054.7	2370.2	2677.8	2971.2	3227.3	3464.3	3682.6	3874.7
35°	1305.3	1582.4	1892.0	2220.2	2551.4	2864.1	3149.7	3410.5	3645.9	3857.7	4054.2
32.5°	1397.9	1694.3	2034.0	2379.2	2716.5	3034.9	3318.1	3573.2	3807.2	4022.3	4217.4
30°	1493.4	1814.9	2168.7	2529.0	2871.6	3183.1	3465.7	3724.0	3956.2	4168.7	4359.9
27.5°	1582.4	1928.7	2297.2	2664.5	3013.2	3322.0	3600.8	3855.1	4088.6	4302.6	4487.9
25°	1664.6	2034.0	2416.1	2788.5	3132.5	3442.0	3723.3	3977.4	4209.6	4414.9	4595.0
22.5°	1745.7	2130.4	2525.2	2902.3	3242.1	3549.2	3828.0	4082.8	4315.1	4518.5	4691.4
20°	1824.5	2220.2	2621.3	3003.2	3341.5	3646.6	3923.3	4177.7	4403.8	4600.7	4772.8
17.5°	1894.7	2300.2	2705.4	3084.7	3423.3	3729.8	4007.7	4262.8	4483.5	4674.8	4843.1
15°	1956.0	2370.2	2779.0	3156.1	3493.6	3799.0	4076.8	4329.2	4548.3	4738.1	4905.1
12.5°	2008.3	2429.8	2841.8	3217.0	3553.7	3858.1	4136.1	4384.9	4600.4	4787.7	4951.1
10°	2051.3	2478.9	2893.5	3267.2	3603.3	3907.0	4185.0	4431.0	4643.5	4828.9	4989.4
7.5°	2084.8	2517.3	2933.9	3306.5	3642.1	3945.3	4223.5	4467.2	4677.5	4861.3	5019.6
5°	2108.9	2544.8	2962.9	3334.8	3670.0	3972.8	4251.1	4493.3	4701.9	4884.7	5041.4
2.5°	2123.4	2561.4	2980.4	3351.7	3686.8	3989.4	4267.7	4509.0	4716.7	4898.9	5054.6
0°	2128.2	2566.9	2986.2	3357.4	3692.4	3994.9	4273.3	4514.3	4721.6	4903.6	5059.0
-2.5°	2123.4	2561.4	2980.4	3351.7	3686.8	3989.4	4267.7	4509.0	4716.7	4898.9	5054.6
-5°	2108.9	2544.8	2962.9	3334.8	3670.0	3972.8	4251.1	4493.3	4701.9	4884.7	5041.4
-7.5°	2084.8	2517.3	2933.9	3306.5	3642.1	3945.3	4223.5	4467.2	4677.5	4861.3	5019.6
-10°	2051.3	2478.9	2893.5	3267.2	3603.3	3907.0	4185.0	4431.0	4643.5	4828.9	4989.4
-12.5°	2008.3	2429.8	2841.8	3217.0	3553.7	3858.1	4136.1	4384.9	4600.4	4787.7	4951.1
-15°	1956.0	2370.2	2779.0	3156.1	3493.6	3799.0	4076.8	4329.2	4548.3	4738.1	4905.1
-17.5°	1894.7	2300.2	2705.4	3084.7	3423.3	3729.8	4007.7	4262.8	4483.5	4674.8	4843.1
-20°	1824.5	2220.2	2621.3	3003.2	3341.5	3646.6	3923.3	4177.7	4403.8	4600.7	4772.8

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CATALOG NUMBER: GFLD-SA4B-727-U-LAM-XX

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1745.7	2130.4	2525.2	2902.3	3242.1	3549.2	3828.0	4082.8	4315.1	4518.5	4691.4
-25°	1664.6	2034.0	2416.1	2788.5	3132.5	3442.0	3723.3	3977.4	4209.6	4414.9	4595.0
-27.5°	1582.4	1928.7	2297.2	2664.5	3013.2	3322.0	3600.8	3855.1	4088.6	4302.6	4487.9
-30°	1493.4	1814.9	2168.7	2529.0	2871.6	3183.1	3465.7	3724.0	3956.2	4168.7	4359.9
-32.5°	1397.9	1694.3	2034.0	2379.2	2716.5	3034.9	3318.1	3573.2	3807.2	4022.3	4217.4
-35°	1305.3	1582.4	1892.0	2220.2	2551.4	2864.1	3149.7	3410.5	3645.9	3857.7	4054.2
-37.5°	1222.0	1464.1	1742.1	2054.7	2370.2	2677.8	2971.2	3227.3	3464.3	3682.6	3874.7
-40°	1134.3	1339.6	1601.0	1884.0	2180.3	2478.9	2762.6	3030.4	3266.5	3482.3	3682.6
-42.5°	1044.2	1238.1	1459.1	1705.7	1986.7	2266.6	2544.8	2805.4	3049.7	3266.5	3464.3
-45°	964.2	1133.1	1317.2	1545.7	1787.3	2048.9	2310.0	2566.9	2805.4	3030.4	3227.3
-47.5°	881.1	1029.0	1198.8	1380.3	1598.0	1828.4	2069.7	2310.0	2544.8	2762.6	2971.2
-50°	799.6	934.9	1076.4	1238.5	1415.0	1615.5	1828.4	2048.9	2266.6	2478.9	2677.8
-52.5°	729.3	838.0	967.5	1102.8	1251.8	1415.0	1598.0	1787.3	1986.7	2180.3	2370.2
-55°	657.0	754.8	859.6	978.4	1102.8	1238.5	1380.3	1545.7	1705.7	1884.0	2054.7
-57.5°	594.2	673.9	763.3	859.6	967.5	1076.4	1198.8	1317.2	1459.1	1601.0	1742.1
-60°	536.4	600.6	673.9	754.8	838.0	934.9	1029.0	1133.1	1238.1	1339.6	1464.1
-62.5°	478.6	536.4	594.2	657.0	729.3	799.6	881.1	964.2	1044.2	1134.3	1222.0
-65°	425.6	473.0	523.6	575.0	625.1	687.3	749.1	808.7	879.0	948.4	1014.6
-67.5°	371.6	414.4	456.3	498.3	543.4	587.1	629.3	682.6	734.0	783.2	833.6
-70°	314.7	354.6	392.3	428.6	463.9	499.5	537.0	573.2	607.9	644.4	685.9
-72.5°	256.7	291.7	325.8	359.1	390.2	420.1	449.0	476.9	505.7	534.6	562.2
-75°	201.0	228.3	257.3	285.9	313.6	340.5	366.2	390.1	412.9	434.7	455.5
-77.5°	147.2	170.0	192.2	213.8	235.1	257.5	279.1	299.9	319.8	338.7	356.8
-80°	98.9	111.5	129.0	146.3	163.1	179.3	195.0	210.1	224.5	239.0	253.4
-82.5°	61.4	70.8	80.0	88.9	97.6	106.0	114.9	126.2	137.0	147.3	157.1
-85°	27.8	30.1	36.1	42.1	47.9	53.4	58.8	64.0	68.9	73.7	78.1
-87.5°	13.9	15.0	16.2	17.3	18.3	19.3	20.3	21.3	22.2	23.1	23.9
-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: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-727-U-LAM-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°	24.7	25.4	26.1	26.7	27.3	27.8	28.3	28.7	29.1	29.4	29.6
85°	82.4	86.4	90.1	93.5	96.7	99.6	102.2	104.5	106.5	108.2	109.6
82.5°	166.4	175.1	183.2	190.8	197.7	204.0	209.7	214.7	219.1	222.9	225.9
80°	267.0	279.8	291.8	302.8	313.1	322.4	330.7	338.2	344.6	350.1	354.6
77.5°	373.4	388.7	403.0	416.3	428.5	439.7	449.7	458.6	466.4	473.0	478.4
75°	475.1	494.3	513.8	532.0	548.7	564.0	577.7	589.9	600.6	609.6	617.0
72.5°	588.2	612.7	637.4	665.4	691.2	714.7	735.9	754.8	771.2	785.1	796.6
70°	725.2	762.2	796.9	832.3	869.8	904.1	934.9	962.4	986.3	1006.7	1023.4
67.5°	889.7	942.7	992.3	1038.5	1086.5	1133.1	1175.2	1212.6	1245.2	1272.9	1295.7
65°	1082.1	1153.1	1219.7	1281.7	1339.6	1407.2	1468.2	1522.5	1569.9	1610.2	1643.4
62.5°	1305.3	1397.9	1493.4	1582.4	1664.6	1745.7	1824.5	1894.7	1956.0	2008.3	2051.3
60°	1582.4	1694.3	1814.9	1928.7	2034.0	2130.4	2220.2	2300.2	2370.2	2429.8	2478.9
57.5°	1892.0	2034.0	2168.7	2297.2	2416.1	2525.2	2621.3	2705.4	2779.0	2841.8	2893.5
55°	2220.2	2379.2	2529.0	2664.5	2788.5	2902.3	3003.2	3084.7	3156.1	3217.0	3267.2
52.5°	2551.4	2716.5	2871.6	3013.2	3132.5	3242.1	3341.5	3423.3	3493.6	3553.7	3603.3
50°	2864.1	3034.9	3183.1	3322.0	3442.0	3549.2	3646.6	3729.8	3799.0	3858.1	3907.0
47.5°	3149.7	3318.1	3465.7	3600.8	3723.3	3828.0	3923.3	4007.7	4076.8	4136.1	4185.0
45°	3410.5	3573.2	3724.0	3855.1	3977.4	4082.8	4177.7	4262.8	4329.2	4384.9	4431.0
42.5°	3645.9	3807.2	3956.2	4088.6	4209.6	4315.1	4403.8	4483.5	4548.3	4600.4	4643.5
40°	3857.7	4022.3	4168.7	4302.6	4414.9	4518.5	4600.7	4674.8	4738.1	4787.7	4828.9
37.5°	4054.2	4217.4	4359.9	4487.9	4595.0	4691.4	4772.8	4843.1	4905.1	4951.1	4989.4
35°	4233.8	4388.9	4529.8	4647.1	4753.4	4844.1	4924.2	4989.0	5046.7	5090.5	5125.4
32.5°	4388.9	4542.6	4673.5	4789.0	4892.8	4977.4	5054.2	5113.6	5165.9	5208.1	5240.5
30°	4529.8	4673.5	4801.0	4915.4	5009.9	5092.3	5161.5	5219.5	5267.8	5308.0	5336.6
27.5°	4647.1	4789.0	4915.4	5020.9	5111.3	5190.7	5254.0	5309.8	5352.0	5389.0	5413.6
25°	4753.4	4892.8	5009.9	5111.3	5199.2	5271.6	5331.8	5382.4	5419.8	5451.5	5469.8
22.5°	4844.1	4977.4	5092.3	5190.7	5271.6	5339.3	5396.1	5438.9	5469.5	5488.7	5499.6
20°	4924.2	5054.2	5161.5	5254.0	5331.8	5396.1	5445.4	5477.1	5498.4	5503.7	5506.7
17.5°	4989.0	5113.6	5219.5	5309.8	5382.4	5438.9	5477.1	5499.4	5505.8	5504.6	5501.5
15°	5046.7	5165.9	5267.8	5352.0	5419.8	5469.5	5498.4	5505.8	5503.9	5497.5	5487.5
12.5°	5090.5	5208.1	5308.0	5389.0	5451.5	5488.7	5503.7	5504.6	5497.5	5485.1	5471.0
10°	5125.4	5240.5	5336.6	5413.6	5469.8	5499.6	5506.7	5501.5	5487.5	5471.0	5455.4
7.5°	5153.1	5266.3	5359.3	5433.2	5481.8	5502.9	5504.4	5494.5	5477.7	5459.0	5442.1
5°	5173.0	5284.9	5375.8	5447.5	5490.5	5505.3	5502.7	5489.0	5469.6	5450.0	5434.5
2.5°	5185.1	5296.2	5385.8	5456.2	5495.9	5506.8	5501.7	5485.6	5464.5	5444.2	5429.6
0°	5189.2	5300.0	5389.2	5459.1	5497.7	5507.3	5501.3	5484.4	5462.7	5442.2	5427.8
-2.5°	5185.1	5296.2	5385.8	5456.2	5495.9	5506.8	5501.7	5485.6	5464.5	5444.2	5429.6
-5°	5173.0	5284.9	5375.8	5447.5	5490.5	5505.3	5502.7	5489.0	5469.6	5450.0	5434.5
-7.5°	5153.1	5266.3	5359.3	5433.2	5481.8	5502.9	5504.4	5494.5	5477.7	5459.0	5442.1
-10°	5125.4	5240.5	5336.6	5413.6	5469.8	5499.6	5506.7	5501.5	5487.5	5471.0	5455.4
-12.5°	5090.5	5208.1	5308.0	5389.0	5451.5	5488.7	5503.7	5504.6	5497.5	5485.1	5471.0
-15°	5046.7	5165.9	5267.8	5352.0	5419.8	5469.5	5498.4	5505.8	5503.9	5497.5	5487.5
-17.5°	4989.0	5113.6	5219.5	5309.8	5382.4	5438.9	5477.1	5499.4	5505.8	5504.6	5501.5
-20°	4924.2	5054.2	5161.5	5254.0	5331.8	5396.1	5445.4	5477.1	5498.4	5503.7	5506.7



REPORT NUMBER: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-727-U-LAM-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4844.1	4977.4	5092.3	5190.7	5271.6	5339.3	5396.1	5438.9	5469.5	5488.7	5499.6
-25°	4753.4	4892.8	5009.9	5111.3	5199.2	5271.6	5331.8	5382.4	5419.8	5451.5	5469.8
-27.5°	4647.1	4789.0	4915.4	5020.9	5111.3	5190.7	5254.0	5309.8	5352.0	5389.0	5413.6
-30°	4529.8	4673.5	4801.0	4915.4	5009.9	5092.3	5161.5	5219.5	5267.8	5308.0	5336.6
-32.5°	4388.9	4542.6	4673.5	4789.0	4892.8	4977.4	5054.2	5113.6	5165.9	5208.1	5240.5
-35°	4233.8	4388.9	4529.8	4647.1	4753.4	4844.1	4924.2	4989.0	5046.7	5090.5	5125.4
-37.5°	4054.2	4217.4	4359.9	4487.9	4595.0	4691.4	4772.8	4843.1	4905.1	4951.1	4989.4
-40°	3857.7	4022.3	4168.7	4302.6	4414.9	4518.5	4600.7	4674.8	4738.1	4787.7	4828.9
-42.5°	3645.9	3807.2	3956.2	4088.6	4209.6	4315.1	4403.8	4483.5	4548.3	4600.4	4643.5
-45°	3410.5	3573.2	3724.0	3855.1	3977.4	4082.8	4177.7	4262.8	4329.2	4384.9	4431.0
-47.5°	3149.7	3318.1	3465.7	3600.8	3723.3	3828.0	3923.3	4007.7	4076.8	4136.1	4185.0
-50°	2864.1	3034.9	3183.1	3322.0	3442.0	3549.2	3646.6	3729.8	3799.0	3858.1	3907.0
-52.5°	2551.4	2716.5	2871.6	3013.2	3132.5	3242.1	3341.5	3423.3	3493.6	3553.7	3603.3
-55°	2220.2	2379.2	2529.0	2664.5	2788.5	2902.3	3003.2	3084.7	3156.1	3217.0	3267.2
-57.5°	1892.0	2034.0	2168.7	2297.2	2416.1	2525.2	2621.3	2705.4	2779.0	2841.8	2893.5
-60°	1582.4	1694.3	1814.9	1928.7	2034.0	2130.4	2220.2	2300.2	2370.2	2429.8	2478.9
-62.5°	1305.3	1397.9	1493.4	1582.4	1664.6	1745.7	1824.5	1894.7	1956.0	2008.3	2051.3
-65°	1082.1	1153.1	1219.7	1281.7	1339.6	1407.2	1468.2	1522.5	1569.9	1610.2	1643.4
-67.5°	889.7	942.7	992.3	1038.5	1086.5	1133.1	1175.2	1212.6	1245.2	1272.9	1295.7
-70°	725.2	762.2	796.9	832.3	869.8	904.1	934.9	962.4	986.3	1006.7	1023.4
-72.5°	588.2	612.7	637.4	665.4	691.2	714.7	735.9	754.8	771.2	785.1	796.6
-75°	475.1	494.3	513.8	532.0	548.7	564.0	577.7	589.9	600.6	609.6	617.0
-77.5°	373.4	388.7	403.0	416.3	428.5	439.7	449.7	458.6	466.4	473.0	478.4
-80°	267.0	279.8	291.8	302.8	313.1	322.4	330.7	338.2	344.6	350.1	354.6
-82.5°	166.4	175.1	183.2	190.8	197.7	204.0	209.7	214.7	219.1	222.9	225.9
-85°	82.4	86.4	90.1	93.5	96.7	99.6	102.2	104.5	106.5	108.2	109.6
-87.5°	24.7	25.4	26.1	26.7	27.3	27.8	28.3	28.7	29.1	29.4	29.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-727-U-LAM-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°	29.8	30.0	30.1	30.1	30.1	30.0	29.8	29.6	29.4	29.1	28.7
85°	110.7	111.5	111.9	112.1	111.9	111.5	110.7	109.6	108.2	106.5	104.5
82.5°	228.3	230.0	231.1	231.4	231.1	230.0	228.3	225.9	222.9	219.1	214.7
80°	358.2	360.7	362.2	362.7	362.2	360.7	358.2	354.6	350.1	344.6	338.2
77.5°	482.7	485.7	487.5	488.1	487.5	485.7	482.7	478.4	473.0	466.4	458.6
75°	622.8	627.0	629.5	630.3	629.5	627.0	622.8	617.0	609.6	600.6	589.9
72.5°	805.6	812.0	815.8	817.1	815.8	812.0	805.6	796.6	785.1	771.2	754.8
70°	1036.5	1045.8	1051.4	1053.3	1051.4	1045.8	1036.5	1023.4	1006.7	986.3	962.4
67.5°	1313.5	1326.3	1333.9	1336.5	1333.9	1326.3	1313.5	1295.7	1272.9	1245.2	1212.6
65°	1669.3	1687.9	1699.1	1702.8	1699.1	1687.9	1669.3	1643.4	1610.2	1569.9	1522.5
62.5°	2084.8	2108.9	2123.4	2128.2	2123.4	2108.9	2084.8	2051.3	2008.3	1956.0	1894.7
60°	2517.3	2544.8	2561.4	2566.9	2561.4	2544.8	2517.3	2478.9	2429.8	2370.2	2300.2
57.5°	2933.9	2962.9	2980.4	2986.2	2980.4	2962.9	2933.9	2893.5	2841.8	2779.0	2705.4
55°	3306.5	3334.8	3351.7	3357.4	3351.7	3334.8	3306.5	3267.2	3217.0	3156.1	3084.7
52.5°	3642.1	3670.0	3686.8	3692.4	3686.8	3670.0	3642.1	3603.3	3553.7	3493.6	3423.3
50°	3945.3	3972.8	3989.4	3994.9	3989.4	3972.8	3945.3	3907.0	3858.1	3799.0	3729.8
47.5°	4223.5	4251.1	4267.7	4273.3	4267.7	4251.1	4223.5	4185.0	4136.1	4076.8	4007.7
45°	4467.2	4493.3	4509.0	4514.3	4509.0	4493.3	4467.2	4431.0	4384.9	4329.2	4262.8
42.5°	4677.5	4701.9	4716.7	4721.6	4716.7	4701.9	4677.5	4643.5	4600.4	4548.3	4483.5
40°	4861.3	4884.7	4898.9	4903.6	4898.9	4884.7	4861.3	4828.9	4787.7	4738.1	4674.8
37.5°	5019.6	5041.4	5054.6	5059.0	5054.6	5041.4	5019.6	4989.4	4951.1	4905.1	4843.1
35°	5153.1	5173.0	5185.1	5189.2	5185.1	5173.0	5153.1	5125.4	5090.5	5046.7	4989.0
32.5°	5266.3	5284.9	5296.2	5300.0	5296.2	5284.9	5266.3	5240.5	5208.1	5165.9	5113.6
30°	5359.3	5375.8	5385.8	5389.2	5385.8	5375.8	5359.3	5336.6	5308.0	5267.8	5219.5
27.5°	5433.2	5447.5	5456.2	5459.1	5456.2	5447.5	5433.2	5413.6	5389.0	5352.0	5309.8
25°	5481.8	5490.5	5495.9	5497.7	5495.9	5490.5	5481.8	5469.8	5451.5	5419.8	5382.4
22.5°	5502.9	5505.3	5506.8	5507.3	5506.8	5505.3	5502.9	5499.6	5488.7	5469.5	5438.9
20°	5504.4	5502.7	5501.7	5501.3	5501.7	5502.7	5504.4	5506.7	5503.7	5498.4	5477.1
17.5°	5494.5	5489.0	5485.6	5484.4	5485.6	5489.0	5494.5	5501.5	5504.6	5505.8	5499.4
15°	5477.7	5469.6	5464.5	5462.7	5464.5	5469.6	5477.7	5487.5	5497.5	5503.9	5505.8
12.5°	5459.0	5450.0	5444.2	5442.2	5444.2	5450.0	5459.0	5471.0	5485.1	5497.5	5504.6
10°	5442.1	5434.5	5429.6	5427.8	5429.6	5434.5	5442.1	5455.4	5471.0	5487.5	5501.5
7.5°	5431.2	5424.4	5420.7	5419.3	5420.7	5424.4	5431.2	5442.1	5459.0	5477.7	5494.5
5°	5424.4	5417.6	5412.0	5409.7	5412.0	5417.6	5424.4	5434.5	5450.0	5469.6	5489.0
2.5°	5420.7	5412.0	5403.4	5398.9	5403.4	5412.0	5420.7	5429.6	5444.2	5464.5	5485.6
0°	5419.3	5409.7	5398.9	5400.1	5398.9	5409.7	5419.3	5427.8	5442.2	5462.7	5484.4
-2.5°	5420.7	5412.0	5403.4	5398.9	5403.4	5412.0	5420.7	5429.6	5444.2	5464.5	5485.6
-5°	5424.4	5417.6	5412.0	5409.7	5412.0	5417.6	5424.4	5434.5	5450.0	5469.6	5489.0
-7.5°	5431.2	5424.4	5420.7	5419.3	5420.7	5424.4	5431.2	5442.1	5459.0	5477.7	5494.5
-10°	5442.1	5434.5	5429.6	5427.8	5429.6	5434.5	5442.1	5455.4	5471.0	5487.5	5501.5
-12.5°	5459.0	5450.0	5444.2	5442.2	5444.2	5450.0	5459.0	5471.0	5485.1	5497.5	5504.6
-15°	5477.7	5469.6	5464.5	5462.7	5464.5	5469.6	5477.7	5487.5	5497.5	5503.9	5505.8
-17.5°	5494.5	5489.0	5485.6	5484.4	5485.6	5489.0	5494.5	5501.5	5504.6	5505.8	5499.4
-20°	5504.4	5502.7	5501.7	5501.3	5501.7	5502.7	5504.4	5506.7	5503.7	5498.4	5477.1



REPORT NUMBER: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-727-U-LAM-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5502.9	5505.3	5506.8	5507.3	5506.8	5505.3	5502.9	5499.6	5488.7	5469.5	5438.9
-25°	5481.8	5490.5	5495.9	5497.7	5495.9	5490.5	5481.8	5469.8	5451.5	5419.8	5382.4
-27.5°	5433.2	5447.5	5456.2	5459.1	5456.2	5447.5	5433.2	5413.6	5389.0	5352.0	5309.8
-30°	5359.3	5375.8	5385.8	5389.2	5385.8	5375.8	5359.3	5336.6	5308.0	5267.8	5219.5
-32.5°	5266.3	5284.9	5296.2	5300.0	5296.2	5284.9	5266.3	5240.5	5208.1	5165.9	5113.6
-35°	5153.1	5173.0	5185.1	5189.2	5185.1	5173.0	5153.1	5125.4	5090.5	5046.7	4989.0
-37.5°	5019.6	5041.4	5054.6	5059.0	5054.6	5041.4	5019.6	4989.4	4951.1	4905.1	4843.1
-40°	4861.3	4884.7	4898.9	4903.6	4898.9	4884.7	4861.3	4828.9	4787.7	4738.1	4674.8
-42.5°	4677.5	4701.9	4716.7	4721.6	4716.7	4701.9	4677.5	4643.5	4600.4	4548.3	4483.5
-45°	4467.2	4493.3	4509.0	4514.3	4509.0	4493.3	4467.2	4431.0	4384.9	4329.2	4262.8
-47.5°	4223.5	4251.1	4267.7	4273.3	4267.7	4251.1	4223.5	4185.0	4136.1	4076.8	4007.7
-50°	3945.3	3972.8	3989.4	3994.9	3989.4	3972.8	3945.3	3907.0	3858.1	3799.0	3729.8
-52.5°	3642.1	3670.0	3686.8	3692.4	3686.8	3670.0	3642.1	3603.3	3553.7	3493.6	3423.3
-55°	3306.5	3334.8	3351.7	3357.4	3351.7	3334.8	3306.5	3267.2	3217.0	3156.1	3084.7
-57.5°	2933.9	2962.9	2980.4	2986.2	2980.4	2962.9	2933.9	2893.5	2841.8	2779.0	2705.4
-60°	2517.3	2544.8	2561.4	2566.9	2561.4	2544.8	2517.3	2478.9	2429.8	2370.2	2300.2
-62.5°	2084.8	2108.9	2123.4	2128.2	2123.4	2108.9	2084.8	2051.3	2008.3	1956.0	1894.7
-65°	1669.3	1687.9	1699.1	1702.8	1699.1	1687.9	1669.3	1643.4	1610.2	1569.9	1522.5
-67.5°	1313.5	1326.3	1333.9	1336.5	1333.9	1326.3	1313.5	1295.7	1272.9	1245.2	1212.6
-70°	1036.5	1045.8	1051.4	1053.3	1051.4	1045.8	1036.5	1023.4	1006.7	986.3	962.4
-72.5°	805.6	812.0	815.8	817.1	815.8	812.0	805.6	796.6	785.1	771.2	754.8
-75°	622.8	627.0	629.5	630.3	629.5	627.0	622.8	617.0	609.6	600.6	589.9
-77.5°	482.7	485.7	487.5	488.1	487.5	485.7	482.7	478.4	473.0	466.4	458.6
-80°	358.2	360.7	362.2	362.7	362.2	360.7	358.2	354.6	350.1	344.6	338.2
-82.5°	228.3	230.0	231.1	231.4	231.1	230.0	228.3	225.9	222.9	219.1	214.7
-85°	110.7	111.5	111.9	112.1	111.9	111.5	110.7	109.6	108.2	106.5	104.5
-87.5°	29.8	30.0	30.1	30.1	30.1	30.0	29.8	29.6	29.4	29.1	28.7
-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: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-727-U-LAM-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°	28.3	27.8	27.3	26.7	26.1	25.4	24.7	23.9	23.1	22.2	21.3
85°	102.2	99.6	96.7	93.5	90.1	86.4	82.4	78.1	73.7	68.9	64.0
82.5°	209.7	204.0	197.7	190.8	183.2	175.1	166.4	157.1	147.3	137.0	126.2
80°	330.7	322.4	313.1	302.8	291.8	279.8	267.0	253.4	239.0	224.5	210.1
77.5°	449.7	439.7	428.5	416.3	403.0	388.7	373.4	356.8	338.7	319.8	299.9
75°	577.7	564.0	548.7	532.0	513.8	494.3	475.1	455.5	434.7	412.9	390.1
72.5°	735.9	714.7	691.2	665.4	637.4	612.7	588.2	562.2	534.6	505.7	476.9
70°	934.9	904.1	869.8	832.3	796.9	762.2	725.2	685.9	644.4	607.9	573.2
67.5°	1175.2	1133.1	1086.5	1038.5	992.3	942.7	889.7	833.6	783.2	734.0	682.6
65°	1468.2	1407.2	1339.6	1281.7	1219.7	1153.1	1082.1	1014.6	948.4	879.0	808.7
62.5°	1824.5	1745.7	1664.6	1582.4	1493.4	1397.9	1305.3	1222.0	1134.3	1044.2	964.2
60°	2220.2	2130.4	2034.0	1928.7	1814.9	1694.3	1582.4	1464.1	1339.6	1238.1	1133.1
57.5°	2621.3	2525.2	2416.1	2297.2	2168.7	2034.0	1892.0	1742.1	1601.0	1459.1	1317.2
55°	3003.2	2902.3	2788.5	2664.5	2529.0	2379.2	2220.2	2054.7	1884.0	1705.7	1545.7
52.5°	3341.5	3242.1	3132.5	3013.2	2871.6	2716.5	2551.4	2370.2	2180.3	1986.7	1787.3
50°	3646.6	3549.2	3442.0	3322.0	3183.1	3034.9	2864.1	2677.8	2478.9	2266.6	2048.9
47.5°	3923.3	3828.0	3723.3	3600.8	3465.7	3318.1	3149.7	2971.2	2762.6	2544.8	2310.0
45°	4177.7	4082.8	3977.4	3855.1	3724.0	3573.2	3410.5	3227.3	3030.4	2805.4	2566.9
42.5°	4403.8	4315.1	4209.6	4088.6	3956.2	3807.2	3645.9	3464.3	3266.5	3049.7	2805.4
40°	4600.7	4518.5	4414.9	4302.6	4168.7	4022.3	3857.7	3682.6	3482.3	3266.5	3030.4
37.5°	4772.8	4691.4	4595.0	4487.9	4359.9	4217.4	4054.2	3874.7	3682.6	3464.3	3227.3
35°	4924.2	4844.1	4753.4	4647.1	4529.8	4388.9	4233.8	4054.2	3857.7	3645.9	3410.5
32.5°	5054.2	4977.4	4892.8	4789.0	4673.5	4542.6	4388.9	4217.4	4022.3	3807.2	3573.2
30°	5161.5	5092.3	5009.9	4915.4	4801.0	4673.5	4529.8	4359.9	4168.7	3956.2	3724.0
27.5°	5254.0	5190.7	5111.3	5020.9	4915.4	4789.0	4647.1	4487.9	4302.6	4088.6	3855.1
25°	5331.8	5271.6	5199.2	5111.3	5009.9	4892.8	4753.4	4595.0	4414.9	4209.6	3977.4
22.5°	5396.1	5339.3	5271.6	5190.7	5092.3	4977.4	4844.1	4691.4	4518.5	4315.1	4082.8
20°	5445.4	5396.1	5331.8	5254.0	5161.5	5054.2	4924.2	4772.8	4600.7	4403.8	4177.7
17.5°	5477.1	5438.9	5382.4	5309.8	5219.5	5113.6	4989.0	4843.1	4674.8	4483.5	4262.8
15°	5498.4	5469.5	5419.8	5352.0	5267.8	5165.9	5046.7	4905.1	4738.1	4548.3	4329.2
12.5°	5503.7	5488.7	5451.5	5389.0	5308.0	5208.1	5090.5	4951.1	4787.7	4600.4	4384.9
10°	5506.7	5499.6	5469.8	5413.6	5336.6	5240.5	5125.4	4989.4	4828.9	4643.5	4431.0
7.5°	5504.4	5502.9	5481.8	5433.2	5359.3	5266.3	5153.1	5019.6	4861.3	4677.5	4467.2
5°	5502.7	5505.3	5490.5	5447.5	5375.8	5284.9	5173.0	5041.4	4884.7	4701.9	4493.3
2.5°	5501.7	5506.8	5495.9	5456.2	5385.8	5296.2	5185.1	5054.6	4898.9	4716.7	4509.0
0°	5501.3	5507.3	5497.7	5459.1	5389.2	5300.0	5189.2	5059.0	4903.6	4721.6	4514.3
-2.5°	5501.7	5506.8	5495.9	5456.2	5385.8	5296.2	5185.1	5054.6	4898.9	4716.7	4509.0
-5°	5502.7	5505.3	5490.5	5447.5	5375.8	5284.9	5173.0	5041.4	4884.7	4701.9	4493.3
-7.5°	5504.4	5502.9	5481.8	5433.2	5359.3	5266.3	5153.1	5019.6	4861.3	4677.5	4467.2
-10°	5506.7	5499.6	5469.8	5413.6	5336.6	5240.5	5125.4	4989.4	4828.9	4643.5	4431.0
-12.5°	5503.7	5488.7	5451.5	5389.0	5308.0	5208.1	5090.5	4951.1	4787.7	4600.4	4384.9
-15°	5498.4	5469.5	5419.8	5352.0	5267.8	5165.9	5046.7	4905.1	4738.1	4548.3	4329.2
-17.5°	5477.1	5438.9	5382.4	5309.8	5219.5	5113.6	4989.0	4843.1	4674.8	4483.5	4262.8
-20°	5445.4	5396.1	5331.8	5254.0	5161.5	5054.2	4924.2	4772.8	4600.7	4403.8	4177.7



REPORT NUMBER: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-727-U-LAM-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5396.1	5339.3	5271.6	5190.7	5092.3	4977.4	4844.1	4691.4	4518.5	4315.1	4082.8
-25°	5331.8	5271.6	5199.2	5111.3	5009.9	4892.8	4753.4	4595.0	4414.9	4209.6	3977.4
-27.5°	5254.0	5190.7	5111.3	5020.9	4915.4	4789.0	4647.1	4487.9	4302.6	4088.6	3855.1
-30°	5161.5	5092.3	5009.9	4915.4	4801.0	4673.5	4529.8	4359.9	4168.7	3956.2	3724.0
-32.5°	5054.2	4977.4	4892.8	4789.0	4673.5	4542.6	4388.9	4217.4	4022.3	3807.2	3573.2
-35°	4924.2	4844.1	4753.4	4647.1	4529.8	4388.9	4233.8	4054.2	3857.7	3645.9	3410.5
-37.5°	4772.8	4691.4	4595.0	4487.9	4359.9	4217.4	4054.2	3874.7	3682.6	3464.3	3227.3
-40°	4600.7	4518.5	4414.9	4302.6	4168.7	4022.3	3857.7	3682.6	3482.3	3266.5	3030.4
-42.5°	4403.8	4315.1	4209.6	4088.6	3956.2	3807.2	3645.9	3464.3	3266.5	3049.7	2805.4
-45°	4177.7	4082.8	3977.4	3855.1	3724.0	3573.2	3410.5	3227.3	3030.4	2805.4	2566.9
-47.5°	3923.3	3828.0	3723.3	3600.8	3465.7	3318.1	3149.7	2971.2	2762.6	2544.8	2310.0
-50°	3646.6	3549.2	3442.0	3322.0	3183.1	3034.9	2864.1	2677.8	2478.9	2266.6	2048.9
-52.5°	3341.5	3242.1	3132.5	3013.2	2871.6	2716.5	2551.4	2370.2	2180.3	1986.7	1787.3
-55°	3003.2	2902.3	2788.5	2664.5	2529.0	2379.2	2220.2	2054.7	1884.0	1705.7	1545.7
-57.5°	2621.3	2525.2	2416.1	2297.2	2168.7	2034.0	1892.0	1742.1	1601.0	1459.1	1317.2
-60°	2220.2	2130.4	2034.0	1928.7	1814.9	1694.3	1582.4	1464.1	1339.6	1238.1	1133.1
-62.5°	1824.5	1745.7	1664.6	1582.4	1493.4	1397.9	1305.3	1222.0	1134.3	1044.2	964.2
-65°	1468.2	1407.2	1339.6	1281.7	1219.7	1153.1	1082.1	1014.6	948.4	879.0	808.7
-67.5°	1175.2	1133.1	1086.5	1038.5	992.3	942.7	889.7	833.6	783.2	734.0	682.6
-70°	934.9	904.1	869.8	832.3	796.9	762.2	725.2	685.9	644.4	607.9	573.2
-72.5°	735.9	714.7	691.2	665.4	637.4	612.7	588.2	562.2	534.6	505.7	476.9
-75°	577.7	564.0	548.7	532.0	513.8	494.3	475.1	455.5	434.7	412.9	390.1
-77.5°	449.7	439.7	428.5	416.3	403.0	388.7	373.4	356.8	338.7	319.8	299.9
-80°	330.7	322.4	313.1	302.8	291.8	279.8	267.0	253.4	239.0	224.5	210.1
-82.5°	209.7	204.0	197.7	190.8	183.2	175.1	166.4	157.1	147.3	137.0	126.2
-85°	102.2	99.6	96.7	93.5	90.1	86.4	82.4	78.1	73.7	68.9	64.0
-87.5°	28.3	27.8	27.3	26.7	26.1	25.4	24.7	23.9	23.1	22.2	21.3
-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: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-727-U-LAM-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°	20.3	19.3	18.3	17.3	16.2	15.0	13.9	12.7	11.5	10.3	9.0
85°	58.8	53.4	47.9	42.1	36.1	30.1	27.8	25.4	23.0	20.6	18.1
82.5°	114.9	106.0	97.6	88.9	80.0	70.8	61.4	51.8	42.0	32.0	27.1
80°	195.0	179.3	163.1	146.3	129.0	111.5	98.9	86.1	73.1	59.8	46.3
77.5°	279.1	257.5	235.1	213.8	192.2	170.0	147.2	123.9	103.9	87.3	70.5
75°	366.2	340.5	313.6	285.9	257.3	228.3	201.0	173.2	144.8	115.8	94.5
72.5°	449.0	420.1	390.2	359.1	325.8	291.7	256.7	221.9	188.8	155.2	121.1
70°	537.0	499.5	463.9	428.6	392.3	354.6	314.7	274.0	232.5	194.1	155.2
67.5°	629.3	587.1	543.4	498.3	456.3	414.4	371.6	326.3	279.8	232.5	188.8
65°	749.1	687.3	625.1	575.0	523.6	473.0	425.6	377.2	326.3	274.0	221.9
62.5°	881.1	799.6	729.3	657.0	594.2	536.4	478.6	425.6	371.6	314.7	256.7
60°	1029.0	934.9	838.0	754.8	673.9	600.6	536.4	473.0	414.4	354.6	291.7
57.5°	1198.8	1076.4	967.5	859.6	763.3	673.9	594.2	523.6	456.3	392.3	325.8
55°	1380.3	1238.5	1102.8	978.4	859.6	754.8	657.0	575.0	498.3	428.6	359.1
52.5°	1598.0	1415.0	1251.8	1102.8	967.5	838.0	729.3	625.1	543.4	463.9	390.2
50°	1828.4	1615.5	1415.0	1238.5	1076.4	934.9	799.6	687.3	587.1	499.5	420.1
47.5°	2069.7	1828.4	1598.0	1380.3	1198.8	1029.0	881.1	749.1	629.3	537.0	449.0
45°	2310.0	2048.9	1787.3	1545.7	1317.2	1133.1	964.2	808.7	682.6	573.2	476.9
42.5°	2544.8	2266.6	1986.7	1705.7	1459.1	1238.1	1044.2	879.0	734.0	607.9	505.7
40°	2762.6	2478.9	2180.3	1884.0	1601.0	1339.6	1134.3	948.4	783.2	644.4	534.6
37.5°	2971.2	2677.8	2370.2	2054.7	1742.1	1464.1	1222.0	1014.6	833.6	685.9	562.2
35°	3149.7	2864.1	2551.4	2220.2	1892.0	1582.4	1305.3	1082.1	889.7	725.2	588.2
32.5°	3318.1	3034.9	2716.5	2379.2	2034.0	1694.3	1397.9	1153.1	942.7	762.2	612.7
30°	3465.7	3183.1	2871.6	2529.0	2168.7	1814.9	1493.4	1219.7	992.3	796.9	637.4
27.5°	3600.8	3322.0	3013.2	2664.5	2297.2	1928.7	1582.4	1281.7	1038.5	832.3	665.4
25°	3723.3	3442.0	3132.5	2788.5	2416.1	2034.0	1664.6	1339.6	1086.5	869.8	691.2
22.5°	3828.0	3549.2	3242.1	2902.3	2525.2	2130.4	1745.7	1407.2	1133.1	904.1	714.7
20°	3923.3	3646.6	3341.5	3003.2	2621.3	2220.2	1824.5	1468.2	1175.2	934.9	735.9
17.5°	4007.7	3729.8	3423.3	3084.7	2705.4	2300.2	1894.7	1522.5	1212.6	962.4	754.8
15°	4076.8	3799.0	3493.6	3156.1	2779.0	2370.2	1956.0	1569.9	1245.2	986.3	771.2
12.5°	4136.1	3858.1	3553.7	3217.0	2841.8	2429.8	2008.3	1610.2	1272.9	1006.7	785.1
10°	4185.0	3907.0	3603.3	3267.2	2893.5	2478.9	2051.3	1643.4	1295.7	1023.4	796.6
7.5°	4223.5	3945.3	3642.1	3306.5	2933.9	2517.3	2084.8	1669.3	1313.5	1036.5	805.6
5°	4251.1	3972.8	3670.0	3334.8	2962.9	2544.8	2108.9	1687.9	1326.3	1045.8	812.0
2.5°	4267.7	3989.4	3686.8	3351.7	2980.4	2561.4	2123.4	1699.1	1333.9	1051.4	815.8
0°	4273.3	3994.9	3692.4	3357.4	2986.2	2566.9	2128.2	1702.8	1336.5	1053.3	817.1
-2.5°	4267.7	3989.4	3686.8	3351.7	2980.4	2561.4	2123.4	1699.1	1333.9	1051.4	815.8
-5°	4251.1	3972.8	3670.0	3334.8	2962.9	2544.8	2108.9	1687.9	1326.3	1045.8	812.0
-7.5°	4223.5	3945.3	3642.1	3306.5	2933.9	2517.3	2084.8	1669.3	1313.5	1036.5	805.6
-10°	4185.0	3907.0	3603.3	3267.2	2893.5	2478.9	2051.3	1643.4	1295.7	1023.4	796.6
-12.5°	4136.1	3858.1	3553.7	3217.0	2841.8	2429.8	2008.3	1610.2	1272.9	1006.7	785.1
-15°	4076.8	3799.0	3493.6	3156.1	2779.0	2370.2	1956.0	1569.9	1245.2	986.3	771.2
-17.5°	4007.7	3729.8	3423.3	3084.7	2705.4	2300.2	1894.7	1522.5	1212.6	962.4	754.8
-20°	3923.3	3646.6	3341.5	3003.2	2621.3	2220.2	1824.5	1468.2	1175.2	934.9	735.9

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Cooper Lighting Solutions Photometric Lab  
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Scaled Data Report



REPORT NUMBER: P645454 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLD-SA4B-727-U-LAM-XX

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3828.0	3549.2	3242.1	2902.3	2525.2	2130.4	1745.7	1407.2	1133.1	904.1	714.7
-25°	3723.3	3442.0	3132.5	2788.5	2416.1	2034.0	1664.6	1339.6	1086.5	869.8	691.2
-27.5°	3600.8	3322.0	3013.2	2664.5	2297.2	1928.7	1582.4	1281.7	1038.5	832.3	665.4
-30°	3465.7	3183.1	2871.6	2529.0	2168.7	1814.9	1493.4	1219.7	992.3	796.9	637.4
-32.5°	3318.1	3034.9	2716.5	2379.2	2034.0	1694.3	1397.9	1153.1	942.7	762.2	612.7
-35°	3149.7	2864.1	2551.4	2220.2	1892.0	1582.4	1305.3	1082.1	889.7	725.2	588.2
-37.5°	2971.2	2677.8	2370.2	2054.7	1742.1	1464.1	1222.0	1014.6	833.6	685.9	562.2
-40°	2762.6	2478.9	2180.3	1884.0	1601.0	1339.6	1134.3	948.4	783.2	644.4	534.6
-42.5°	2544.8	2266.6	1986.7	1705.7	1459.1	1238.1	1044.2	879.0	734.0	607.9	505.7
-45°	2310.0	2048.9	1787.3	1545.7	1317.2	1133.1	964.2	808.7	682.6	573.2	476.9
-47.5°	2069.7	1828.4	1598.0	1380.3	1198.8	1029.0	881.1	749.1	629.3	537.0	449.0
-50°	1828.4	1615.5	1415.0	1238.5	1076.4	934.9	799.6	687.3	587.1	499.5	420.1
-52.5°	1598.0	1415.0	1251.8	1102.8	967.5	838.0	729.3	625.1	543.4	463.9	390.2
-55°	1380.3	1238.5	1102.8	978.4	859.6	754.8	657.0	575.0	498.3	428.6	359.1
-57.5°	1198.8	1076.4	967.5	859.6	763.3	673.9	594.2	523.6	456.3	392.3	325.8
-60°	1029.0	934.9	838.0	754.8	673.9	600.6	536.4	473.0	414.4	354.6	291.7
-62.5°	881.1	799.6	729.3	657.0	594.2	536.4	478.6	425.6	371.6	314.7	256.7
-65°	749.1	687.3	625.1	575.0	523.6	473.0	425.6	377.2	326.3	274.0	221.9
-67.5°	629.3	587.1	543.4	498.3	456.3	414.4	371.6	326.3	279.8	232.5	188.8
-70°	537.0	499.5	463.9	428.6	392.3	354.6	314.7	274.0	232.5	194.1	155.2
-72.5°	449.0	420.1	390.2	359.1	325.8	291.7	256.7	221.9	188.8	155.2	121.1
-75°	366.2	340.5	313.6	285.9	257.3	228.3	201.0	173.2	144.8	115.8	94.5
-77.5°	279.1	257.5	235.1	213.8	192.2	170.0	147.2	123.9	103.9	87.3	70.5
-80°	195.0	179.3	163.1	146.3	129.0	111.5	98.9	86.1	73.1	59.8	46.3
-82.5°	114.9	106.0	97.6	88.9	80.0	70.8	61.4	51.8	42.0	32.0	27.1
-85°	58.8	53.4	47.9	42.1	36.1	30.1	27.8	25.4	23.0	20.6	18.1
-87.5°	20.3	19.3	18.3	17.3	16.2	15.0	13.9	12.7	11.5	10.3	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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REPORT NUMBER: P645454 (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°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
85°	15.6	13.0	10.4	7.8	5.2	2.6	0.0
82.5°	23.3	19.5	15.6	11.8	7.8	3.9	0.0
80°	32.6	25.9	20.8	15.6	10.4	5.2	0.0
77.5°	53.4	36.2	25.9	19.5	13.0	6.5	0.0
75°	74.1	53.4	32.6	23.3	15.6	7.8	0.0
72.5°	94.5	70.5	46.3	27.1	18.1	9.0	0.0
70°	115.8	87.3	59.8	32.0	20.6	10.3	0.0
67.5°	144.8	103.9	73.1	42.0	23.0	11.5	0.0
65°	173.2	123.9	86.1	51.8	25.4	12.7	0.0
62.5°	201.0	147.2	98.9	61.4	27.8	13.9	0.0
60°	228.3	170.0	111.5	70.8	30.1	15.0	0.0
57.5°	257.3	192.2	129.0	80.0	36.1	16.2	0.0
55°	285.9	213.8	146.3	88.9	42.1	17.3	0.0
52.5°	313.6	235.1	163.1	97.6	47.9	18.3	0.0
50°	340.5	257.5	179.3	106.0	53.4	19.3	0.0
47.5°	366.2	279.1	195.0	114.9	58.8	20.3	0.0
45°	390.1	299.9	210.1	126.2	64.0	21.3	0.0
42.5°	412.9	319.8	224.5	137.0	68.9	22.2	0.0
40°	434.7	338.7	239.0	147.3	73.7	23.1	0.0
37.5°	455.5	356.8	253.4	157.1	78.1	23.9	0.0
35°	475.1	373.4	267.0	166.4	82.4	24.7	0.0
32.5°	494.3	388.7	279.8	175.1	86.4	25.4	0.0
30°	513.8	403.0	291.8	183.2	90.1	26.1	0.0
27.5°	532.0	416.3	302.8	190.8	93.5	26.7	0.0
25°	548.7	428.5	313.1	197.7	96.7	27.3	0.0
22.5°	564.0	439.7	322.4	204.0	99.6	27.8	0.0
20°	577.7	449.7	330.7	209.7	102.2	28.3	0.0
17.5°	589.9	458.6	338.2	214.7	104.5	28.7	0.0
15°	600.6	466.4	344.6	219.1	106.5	29.1	0.0
12.5°	609.6	473.0	350.1	222.9	108.2	29.4	0.0
10°	617.0	478.4	354.6	225.9	109.6	29.6	0.0
7.5°	622.8	482.7	358.2	228.3	110.7	29.8	0.0
5°	627.0	485.7	360.7	230.0	111.5	30.0	0.0
2.5°	629.5	487.5	362.2	231.1	111.9	30.1	0.0
0°	630.3	488.1	362.7	231.4	112.1	30.1	0.0
-2.5°	629.5	487.5	362.2	231.1	111.9	30.1	0.0
-5°	627.0	485.7	360.7	230.0	111.5	30.0	0.0
-7.5°	622.8	482.7	358.2	228.3	110.7	29.8	0.0
-10°	617.0	478.4	354.6	225.9	109.6	29.6	0.0
-12.5°	609.6	473.0	350.1	222.9	108.2	29.4	0.0
-15°	600.6	466.4	344.6	219.1	106.5	29.1	0.0
-17.5°	589.9	458.6	338.2	214.7	104.5	28.7	0.0
-20°	577.7	449.7	330.7	209.7	102.2	28.3	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	564.0	439.7	322.4	204.0	99.6	27.8	0.0
-25°	548.7	428.5	313.1	197.7	96.7	27.3	0.0
-27.5°	532.0	416.3	302.8	190.8	93.5	26.7	0.0
-30°	513.8	403.0	291.8	183.2	90.1	26.1	0.0
-32.5°	494.3	388.7	279.8	175.1	86.4	25.4	0.0
-35°	475.1	373.4	267.0	166.4	82.4	24.7	0.0
-37.5°	455.5	356.8	253.4	157.1	78.1	23.9	0.0
-40°	434.7	338.7	239.0	147.3	73.7	23.1	0.0
-42.5°	412.9	319.8	224.5	137.0	68.9	22.2	0.0
-45°	390.1	299.9	210.1	126.2	64.0	21.3	0.0
-47.5°	366.2	279.1	195.0	114.9	58.8	20.3	0.0
-50°	340.5	257.5	179.3	106.0	53.4	19.3	0.0
-52.5°	313.6	235.1	163.1	97.6	47.9	18.3	0.0
-55°	285.9	213.8	146.3	88.9	42.1	17.3	0.0
-57.5°	257.3	192.2	129.0	80.0	36.1	16.2	0.0
-60°	228.3	170.0	111.5	70.8	30.1	15.0	0.0
-62.5°	201.0	147.2	98.9	61.4	27.8	13.9	0.0
-65°	173.2	123.9	86.1	51.8	25.4	12.7	0.0
-67.5°	144.8	103.9	73.1	42.0	23.0	11.5	0.0
-70°	115.8	87.3	59.8	32.0	20.6	10.3	0.0
-72.5°	94.5	70.5	46.3	27.1	18.1	9.0	0.0
-75°	74.1	53.4	32.6	23.3	15.6	7.8	0.0
-77.5°	53.4	36.2	25.9	19.5	13.0	6.5	0.0
-80°	32.6	25.9	20.8	15.6	10.4	5.2	0.0
-82.5°	23.3	19.5	15.6	11.8	7.8	3.9	0.0
-85°	15.6	13.0	10.4	7.8	5.2	2.6	0.0
-87.5°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)