

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: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA4E-727-U-LAM-XX

Issue Date: 2/28/2023

Test Information

Test Method: LM-79-2019
Report Number: P645490 (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-SA4E-727-U-LAM-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, LAMBERTIAN
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

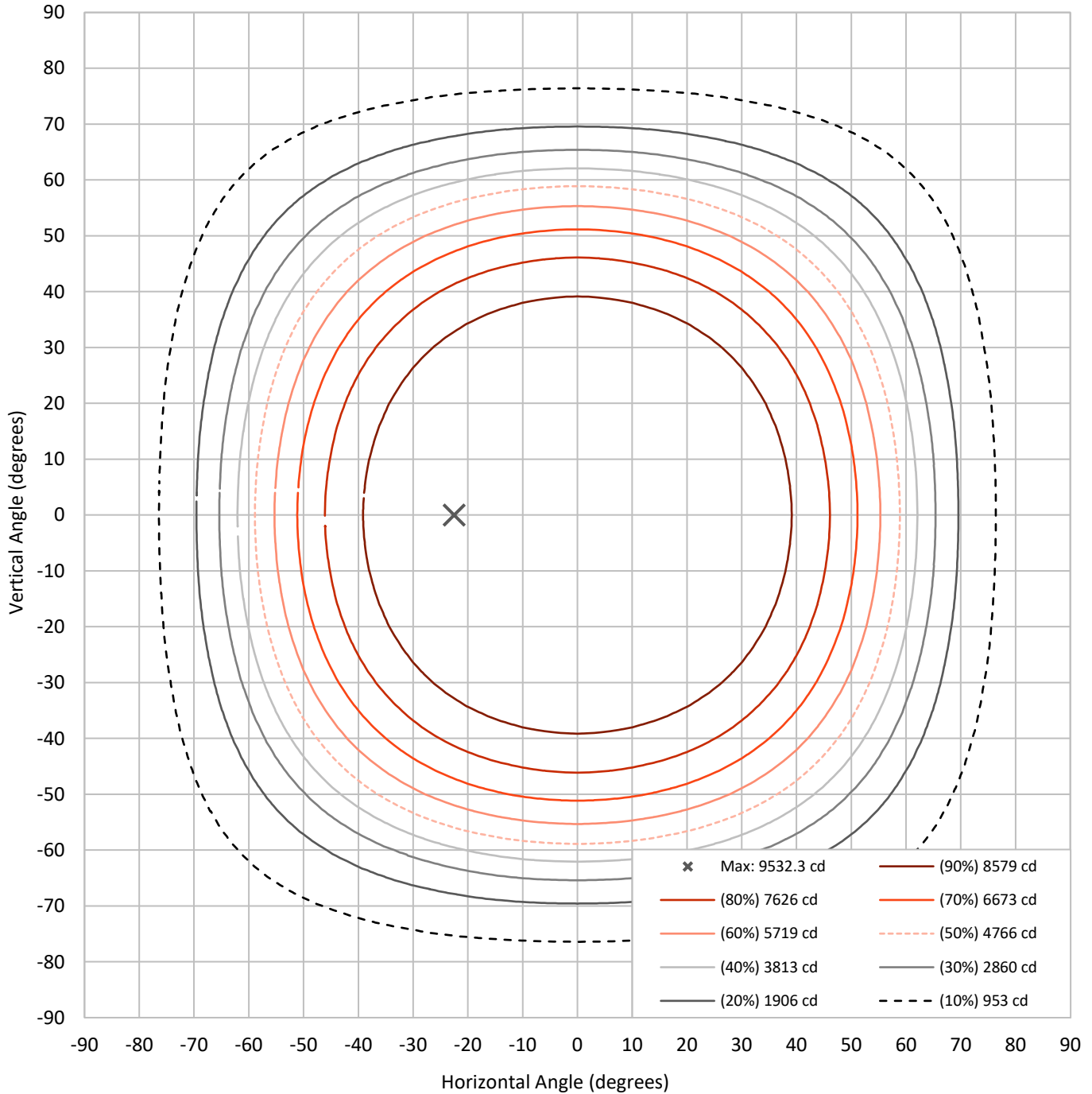
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29159.8 lumens	Max Intensity:	9532.3 candela
Efficiency:	N/A	Max Intensity Angle:	-22.5°H x 0°V
Efficacy:	113.9 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:	24267.3 lumens	Field Lumens:	28586.3 lumens
Beam Efficiency:	83.2%	Field Efficiency:	98.0%
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





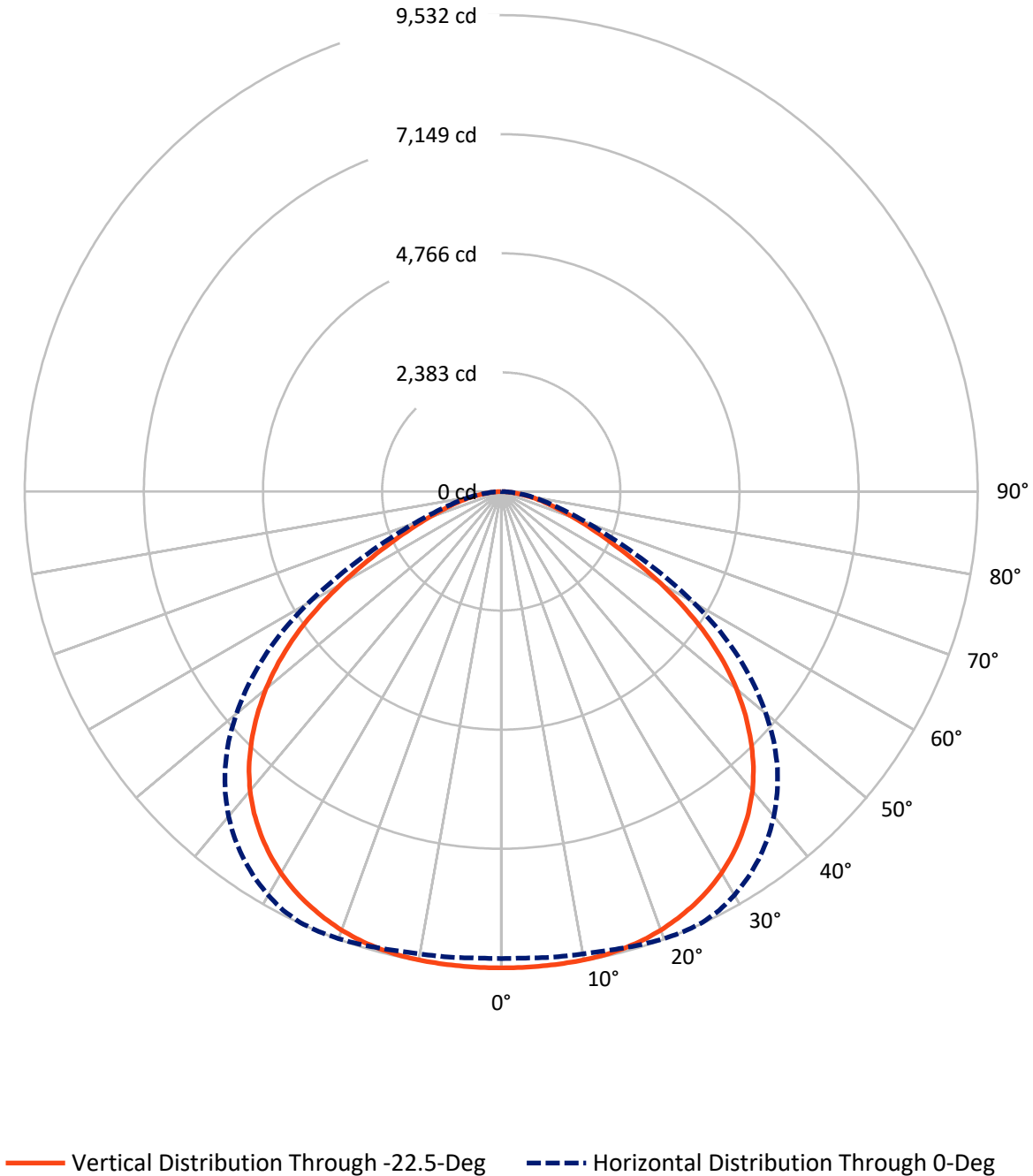
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Lumen Table

90																			
80	1.5	15.1	42.7	71.1	83.2	71.1	42.7	15.1	1.5										
70																			
60	7.2	8.5	17.7	31.0	47.9	66.2	81.8	90.4	90.4	81.8	66.2	47.9	31.0	17.7	8.5				7.2
50																			
40	13.6	13.2	30.2	58.6	95.8	131.9	158.8	173.0	173.0	158.8	131.9	95.8	58.6	30.2	13.2				13.6
30																			
20	18.6	18.8	47.8	95.3	146.0	188.6	218.6	234.0	234.0	218.6	188.6	146.0	95.3	47.8	18.8				18.6
10																			
0	20.6	25.2	67.7	126.3	181.6	225.7	255.5	270.2	270.2	255.5	225.7	181.6	126.3	67.7	25.2				20.6
-10																			
-20	18.6	31.6	84.2	147.5	204.2	247.2	274.6	286.8	286.8	274.6	247.2	204.2	147.5	84.2	31.6				18.6
-30																			
-40	13.6	36.7	95.1	160.5	216.8	257.7	279.5	287.0	287.0	279.5	257.7	216.8	160.5	95.1	36.7				13.6
-50																			
-60	7.2	39.4	100.5	166.6	222.4	261.0	278.3	284.3	284.3	278.3	261.0	222.4	166.6	100.5	39.4				7.2
-70																			
-80	1.5	39.4	100.5	166.6	222.4	261.0	278.3	284.3	284.3	278.3	261.0	222.4	166.6	100.5	39.4				1.5
-90																			

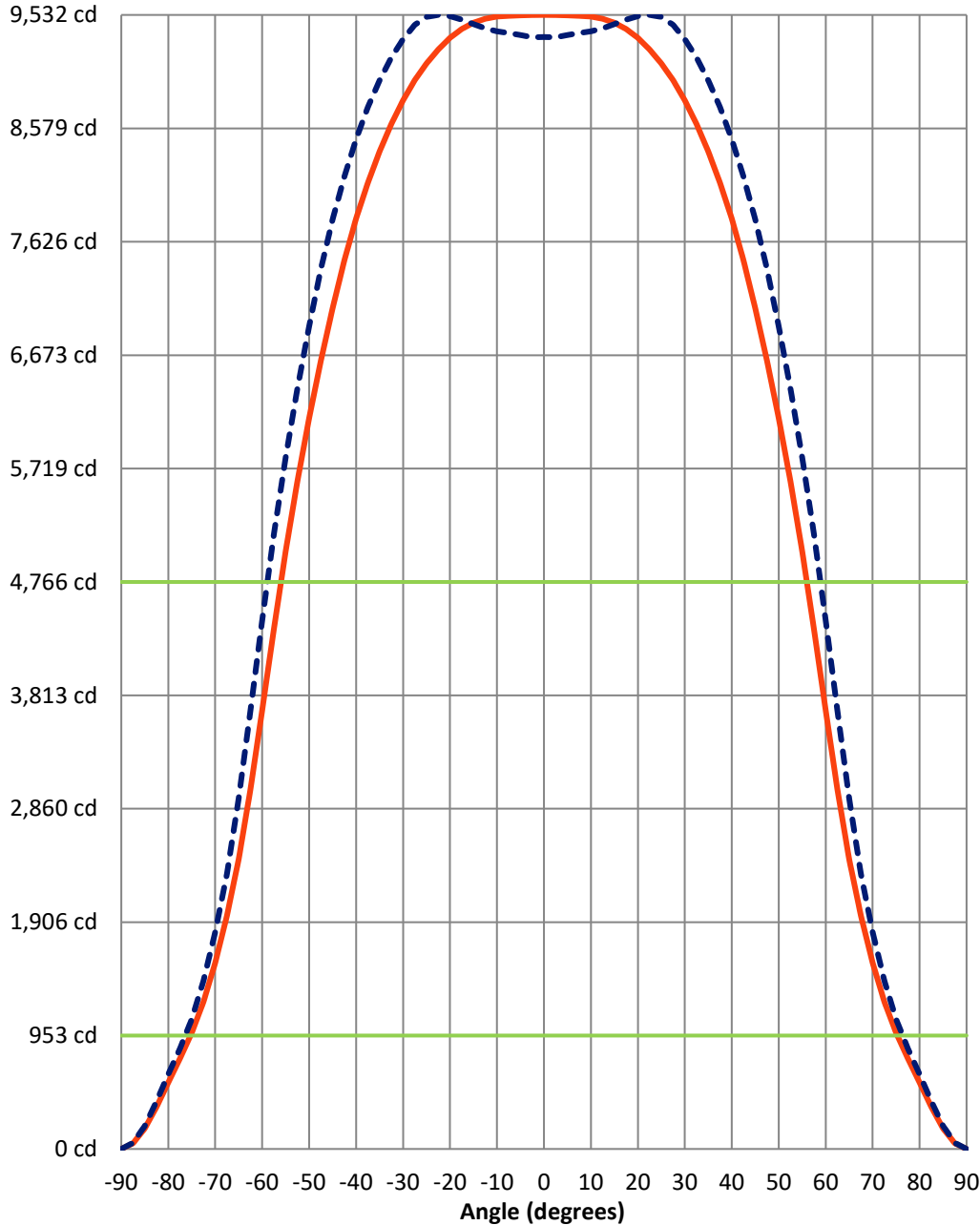
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 117.8°
 V Angle: 112°
 Lumens: 24267.3
 Efficiency: 83.2%

Field:
 H Angle: 152.8°
 V Angle: 150.5°
 Lumens: 28586.3
 Efficiency: 98.0%

Spill:
 Lumens: 573.5
 Efficiency: 2.0%

— Vertical Distribution through -22.5-Deg
 - - Horizontal Distribution through 0-Deg

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Scaled Data Report



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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	2.3	4.5	6.8	9.0	11.3	13.5	15.7	17.8	19.9	22.0
85°	0.0	4.5	9.1	13.6	18.1	22.5	26.9	31.3	35.6	39.8	44.0
82.5°	0.0	6.8	13.6	20.3	27.1	33.7	40.3	46.9	55.4	72.7	89.7
80°	0.0	9.0	18.1	27.1	36.0	44.9	56.4	80.1	103.5	126.5	149.1
77.5°	0.0	11.3	22.5	33.7	44.9	62.6	92.5	122.0	151.2	179.9	214.5
75°	0.0	13.5	26.9	40.3	56.4	92.5	128.2	163.6	200.5	250.5	299.7
72.5°	0.0	15.7	31.3	46.9	80.1	122.0	163.6	209.5	268.6	326.8	384.1
70°	0.0	17.8	35.6	55.4	103.5	151.2	200.5	268.6	335.9	402.4	474.2
67.5°	0.0	19.9	39.8	72.7	126.5	179.9	250.5	326.8	402.4	484.2	564.8
65°	0.0	22.0	44.0	89.7	149.1	214.5	299.7	384.1	474.2	564.8	652.8
62.5°	0.0	24.1	48.1	106.3	171.2	254.8	347.9	444.3	544.8	643.2	736.6
60°	0.0	26.0	52.1	122.6	192.9	294.2	395.2	504.8	613.8	717.3	818.7
57.5°	0.0	28.0	62.5	138.5	223.2	332.6	445.4	564.0	678.9	789.7	906.3
55°	0.0	29.9	72.8	153.9	253.2	370.1	494.8	621.6	741.8	862.5	995.3
52.5°	0.0	31.7	82.8	168.9	282.2	407.0	542.8	675.4	802.9	940.4	1081.9
50°	0.0	33.5	92.5	183.4	310.4	445.7	589.3	727.2	864.5	1016.1	1189.5
47.5°	0.0	35.2	101.8	198.9	337.5	483.1	633.9	777.2	929.4	1089.3	1296.5
45°	0.0	36.8	110.7	218.4	363.6	519.0	675.1	825.4	992.0	1181.4	1399.7
42.5°	0.0	38.4	119.3	237.1	388.6	553.5	714.7	875.2	1052.1	1270.4	1521.3
40°	0.0	39.9	127.5	255.0	413.6	586.3	752.4	925.3	1115.3	1355.6	1641.4
37.5°	0.0	41.3	135.2	272.0	438.6	617.6	788.3	973.0	1187.1	1442.7	1755.9
35°	0.0	42.7	142.6	288.0	462.1	646.2	822.3	1018.1	1255.2	1539.9	1872.9
32.5°	0.0	43.9	149.5	303.0	484.3	672.8	855.5	1060.5	1319.2	1631.6	1995.8
30°	0.0	45.1	155.9	317.1	505.0	697.5	889.3	1103.2	1379.2	1717.5	2111.0
27.5°	0.0	46.2	161.9	330.2	524.2	720.6	920.8	1151.6	1440.4	1797.3	2218.3
25°	0.0	47.2	167.4	342.2	541.9	741.7	949.8	1196.3	1505.4	1880.5	2318.5
22.5°	0.0	48.1	172.3	353.1	558.0	761.0	976.2	1237.0	1564.7	1961.2	2435.6
20°	0.0	49.0	176.8	362.9	572.5	778.4	1000.0	1273.7	1618.1	2034.0	2541.2
17.5°	0.0	49.7	180.8	371.7	585.3	793.8	1021.1	1306.3	1665.6	2098.7	2635.2
15°	0.0	50.3	184.3	379.3	596.5	807.3	1039.5	1334.7	1707.1	2155.1	2717.2
12.5°	0.0	50.9	187.3	385.7	606.0	818.7	1055.1	1358.9	1742.3	2203.1	2787.1
10°	0.0	51.3	189.7	391.0	613.8	828.1	1068.0	1378.7	1771.2	2242.6	2844.5
7.5°	0.0	51.7	191.6	395.2	619.9	835.4	1078.0	1394.2	1793.8	2273.4	2889.4
5°	0.0	51.9	192.9	398.1	624.3	840.6	1085.1	1405.3	1810.0	2295.5	2921.5
2.5°	0.0	52.1	193.7	399.9	626.9	843.8	1089.5	1412.0	1819.8	2308.8	2940.9
0°	0.0	52.1	194.0	400.5	627.8	844.8	1090.9	1414.2	1823.0	2313.2	2947.3
-2.5°	0.0	52.1	193.7	399.9	626.9	843.8	1089.5	1412.0	1819.8	2308.8	2940.9
-5°	0.0	51.9	192.9	398.1	624.3	840.6	1085.1	1405.3	1810.0	2295.5	2921.5
-7.5°	0.0	51.7	191.6	395.2	619.9	835.4	1078.0	1394.2	1793.8	2273.4	2889.4
-10°	0.0	51.3	189.7	391.0	613.8	828.1	1068.0	1378.7	1771.2	2242.6	2844.5
-12.5°	0.0	50.9	187.3	385.7	606.0	818.7	1055.1	1358.9	1742.3	2203.1	2787.1
-15°	0.0	50.3	184.3	379.3	596.5	807.3	1039.5	1334.7	1707.1	2155.1	2717.2
-17.5°	0.0	49.7	180.8	371.7	585.3	793.8	1021.1	1306.3	1665.6	2098.7	2635.2
-20°	0.0	49.0	176.8	362.9	572.5	778.4	1000.0	1273.7	1618.1	2034.0	2541.2

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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	48.1	172.3	353.1	558.0	761.0	976.2	1237.0	1564.7	1961.2	2435.6
-25°	0.0	47.2	167.4	342.2	541.9	741.7	949.8	1196.3	1505.4	1880.5	2318.5
-27.5°	0.0	46.2	161.9	330.2	524.2	720.6	920.8	1151.6	1440.4	1797.3	2218.3
-30°	0.0	45.1	155.9	317.1	505.0	697.5	889.3	1103.2	1379.2	1717.5	2111.0
-32.5°	0.0	43.9	149.5	303.0	484.3	672.8	855.5	1060.5	1319.2	1631.6	1995.8
-35°	0.0	42.7	142.6	288.0	462.1	646.2	822.3	1018.1	1255.2	1539.9	1872.9
-37.5°	0.0	41.3	135.2	272.0	438.6	617.6	788.3	973.0	1187.1	1442.7	1755.9
-40°	0.0	39.9	127.5	255.0	413.6	586.3	752.4	925.3	1115.3	1355.6	1641.4
-42.5°	0.0	38.4	119.3	237.1	388.6	553.5	714.7	875.2	1052.1	1270.4	1521.3
-45°	0.0	36.8	110.7	218.4	363.6	519.0	675.1	825.4	992.0	1181.4	1399.7
-47.5°	0.0	35.2	101.8	198.9	337.5	483.1	633.9	777.2	929.4	1089.3	1296.5
-50°	0.0	33.5	92.5	183.4	310.4	445.7	589.3	727.2	864.5	1016.1	1189.5
-52.5°	0.0	31.7	82.8	168.9	282.2	407.0	542.8	675.4	802.9	940.4	1081.9
-55°	0.0	29.9	72.8	153.9	253.2	370.1	494.8	621.6	741.8	862.5	995.3
-57.5°	0.0	28.0	62.5	138.5	223.2	332.6	445.4	564.0	678.9	789.7	906.3
-60°	0.0	26.0	52.1	122.6	192.9	294.2	395.2	504.8	613.8	717.3	818.7
-62.5°	0.0	24.1	48.1	106.3	171.2	254.8	347.9	444.3	544.8	643.2	736.6
-65°	0.0	22.0	44.0	89.7	149.1	214.5	299.7	384.1	474.2	564.8	652.8
-67.5°	0.0	19.9	39.8	72.7	126.5	179.9	250.5	326.8	402.4	484.2	564.8
-70°	0.0	17.8	35.6	55.4	103.5	151.2	200.5	268.6	335.9	402.4	474.2
-72.5°	0.0	15.7	31.3	46.9	80.1	122.0	163.6	209.5	268.6	326.8	384.1
-75°	0.0	13.5	26.9	40.3	56.4	92.5	128.2	163.6	200.5	250.5	299.7
-77.5°	0.0	11.3	22.5	33.7	44.9	62.6	92.5	122.0	151.2	179.9	214.5
-80°	0.0	9.0	18.1	27.1	36.0	44.9	56.4	80.1	103.5	126.5	149.1
-82.5°	0.0	6.8	13.6	20.3	27.1	33.7	40.3	46.9	55.4	72.7	89.7
-85°	0.0	4.5	9.1	13.6	18.1	22.5	26.9	31.3	35.6	39.8	44.0
-87.5°	0.0	2.3	4.5	6.8	9.0	11.3	13.5	15.7	17.8	19.9	22.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.1	26.0	28.0	29.9	31.7	33.5	35.2	36.8	38.4	39.9	41.3
85°	48.1	52.1	62.5	72.8	82.8	92.5	101.8	110.7	119.3	127.5	135.2
82.5°	106.3	122.6	138.5	153.9	168.9	183.4	198.9	218.4	237.1	255.0	272.0
80°	171.2	192.9	223.2	253.2	282.2	310.4	337.5	363.6	388.6	413.6	438.6
77.5°	254.8	294.2	332.6	370.1	407.0	445.7	483.1	519.0	553.5	586.3	617.6
75°	347.9	395.2	445.4	494.8	542.8	589.3	633.9	675.1	714.7	752.4	788.3
72.5°	444.3	504.8	564.0	621.6	675.4	727.2	777.2	825.4	875.2	925.3	973.0
70°	544.8	613.8	678.9	741.8	802.9	864.5	929.4	992.0	1052.1	1115.3	1187.1
67.5°	643.2	717.3	789.7	862.5	940.4	1016.1	1089.3	1181.4	1270.4	1355.6	1442.7
65°	736.6	818.7	906.3	995.3	1081.9	1189.5	1296.5	1399.7	1521.3	1641.4	1755.9
62.5°	828.4	928.3	1028.4	1137.2	1262.3	1383.9	1524.9	1668.8	1807.2	1963.2	2115.1
60°	928.3	1039.5	1166.4	1306.3	1450.3	1618.1	1780.9	1961.2	2142.9	2318.5	2534.0
57.5°	1028.4	1166.4	1321.0	1487.7	1674.5	1863.1	2074.8	2279.7	2525.5	2771.0	3015.3
55°	1137.2	1306.3	1487.7	1693.4	1908.6	2143.5	2389.1	2675.3	2952.3	3260.9	3556.4
52.5°	1262.3	1450.3	1674.5	1908.6	2166.5	2449.1	2765.9	3093.6	3438.7	3773.8	4102.4
50°	1383.9	1618.1	1863.1	2143.5	2449.1	2796.3	3164.7	3546.4	3923.1	4290.6	4634.7
47.5°	1524.9	1780.9	2074.8	2389.1	2765.9	3164.7	3582.4	3998.3	4404.6	4781.6	5142.7
45°	1668.8	1961.2	2279.7	2675.3	3093.6	3546.4	3998.3	4442.8	4855.6	5245.2	5586.0
42.5°	1807.2	2142.9	2525.5	2952.3	3438.7	3923.1	4404.6	4855.6	5278.6	5653.7	5996.1
40°	1963.2	2318.5	2771.0	3260.9	3773.8	4290.6	4781.6	5245.2	5653.7	6027.3	6374.0
37.5°	2115.1	2534.0	3015.3	3556.4	4102.4	4634.7	5142.7	5586.0	5996.1	6374.0	6706.5
35°	2259.2	2738.9	3274.9	3842.8	4416.1	4957.3	5451.7	5903.0	6310.5	6677.1	7017.1
32.5°	2419.6	2932.5	3520.5	4118.0	4701.9	5253.0	5743.1	6184.6	6589.7	6962.0	7299.7
30°	2584.9	3141.4	3753.6	4377.2	4970.3	5509.4	5998.6	6445.7	6847.5	7215.4	7546.2
27.5°	2738.9	3338.4	3976.0	4611.7	5215.5	5749.8	6232.5	6672.6	7076.8	7447.1	7767.7
25°	2881.1	3520.5	4181.9	4826.5	5421.9	5957.5	6444.5	6884.3	7286.2	7641.5	7953.3
22.5°	3021.5	3687.3	4370.6	5023.4	5611.6	6143.1	6625.7	7066.7	7468.8	7820.8	8120.0
20°	3158.0	3842.8	4537.0	5198.1	5783.7	6311.8	6790.7	7230.8	7622.2	7963.0	8260.8
17.5°	3279.5	3981.3	4682.6	5339.2	5925.2	6455.8	6936.6	7378.3	7760.2	8091.3	8382.5
15°	3385.6	4102.4	4810.0	5462.7	6046.9	6575.4	7056.3	7493.1	7872.4	8200.8	8489.9
12.5°	3476.0	4205.6	4918.7	5568.1	6150.9	6677.8	7158.8	7589.5	7962.5	8286.7	8569.5
10°	3550.4	4290.6	5008.2	5655.1	6236.8	6762.4	7243.6	7669.4	8037.2	8358.0	8635.8
7.5°	3608.5	4357.0	5078.2	5723.1	6304.0	6828.6	7310.1	7732.1	8095.9	8414.1	8688.1
5°	3650.2	4404.6	5128.4	5771.9	6352.2	6876.2	7358.0	7777.2	8138.2	8454.6	8725.8
2.5°	3675.2	4433.2	5158.6	5801.3	6381.3	6904.9	7386.8	7804.4	8163.8	8479.1	8748.7
0°	3683.6	4442.8	5168.7	5811.1	6391.0	6914.5	7396.4	7813.5	8172.3	8487.3	8756.3
-2.5°	3675.2	4433.2	5158.6	5801.3	6381.3	6904.9	7386.8	7804.4	8163.8	8479.1	8748.7
-5°	3650.2	4404.6	5128.4	5771.9	6352.2	6876.2	7358.0	7777.2	8138.2	8454.6	8725.8
-7.5°	3608.5	4357.0	5078.2	5723.1	6304.0	6828.6	7310.1	7732.1	8095.9	8414.1	8688.1
-10°	3550.4	4290.6	5008.2	5655.1	6236.8	6762.4	7243.6	7669.4	8037.2	8358.0	8635.8
-12.5°	3476.0	4205.6	4918.7	5568.1	6150.9	6677.8	7158.8	7589.5	7962.5	8286.7	8569.5
-15°	3385.6	4102.4	4810.0	5462.7	6046.9	6575.4	7056.3	7493.1	7872.4	8200.8	8489.9
-17.5°	3279.5	3981.3	4682.6	5339.2	5925.2	6455.8	6936.6	7378.3	7760.2	8091.3	8382.5
-20°	3158.0	3842.8	4537.0	5198.1	5783.7	6311.8	6790.7	7230.8	7622.2	7963.0	8260.8



REPORT NUMBER: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-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°	3021.5	3687.3	4370.6	5023.4	5611.6	6143.1	6625.7	7066.7	7468.8	7820.8	8120.0
-25°	2881.1	3520.5	4181.9	4826.5	5421.9	5957.5	6444.5	6884.3	7286.2	7641.5	7953.3
-27.5°	2738.9	3338.4	3976.0	4611.7	5215.5	5749.8	6232.5	6672.6	7076.8	7447.1	7767.7
-30°	2584.9	3141.4	3753.6	4377.2	4970.3	5509.4	5998.6	6445.7	6847.5	7215.4	7546.2
-32.5°	2419.6	2932.5	3520.5	4118.0	4701.9	5253.0	5743.1	6184.6	6589.7	6962.0	7299.7
-35°	2259.2	2738.9	3274.9	3842.8	4416.1	4957.3	5451.7	5903.0	6310.5	6677.1	7017.1
-37.5°	2115.1	2534.0	3015.3	3556.4	4102.4	4634.7	5142.7	5586.0	5996.1	6374.0	6706.5
-40°	1963.2	2318.5	2771.0	3260.9	3773.8	4290.6	4781.6	5245.2	5653.7	6027.3	6374.0
-42.5°	1807.2	2142.9	2525.5	2952.3	3438.7	3923.1	4404.6	4855.6	5278.6	5653.7	5996.1
-45°	1668.8	1961.2	2279.7	2675.3	3093.6	3546.4	3998.3	4442.8	4855.6	5245.2	5586.0
-47.5°	1524.9	1780.9	2074.8	2389.1	2765.9	3164.7	3582.4	3998.3	4404.6	4781.6	5142.7
-50°	1383.9	1618.1	1863.1	2143.5	2449.1	2796.3	3164.7	3546.4	3923.1	4290.6	4634.7
-52.5°	1262.3	1450.3	1674.5	1908.6	2166.5	2449.1	2765.9	3093.6	3438.7	3773.8	4102.4
-55°	1137.2	1306.3	1487.7	1693.4	1908.6	2143.5	2389.1	2675.3	2952.3	3260.9	3556.4
-57.5°	1028.4	1166.4	1321.0	1487.7	1674.5	1863.1	2074.8	2279.7	2525.5	2771.0	3015.3
-60°	928.3	1039.5	1166.4	1306.3	1450.3	1618.1	1780.9	1961.2	2142.9	2318.5	2534.0
-62.5°	828.4	928.3	1028.4	1137.2	1262.3	1383.9	1524.9	1668.8	1807.2	1963.2	2115.1
-65°	736.6	818.7	906.3	995.3	1081.9	1189.5	1296.5	1399.7	1521.3	1641.4	1755.9
-67.5°	643.2	717.3	789.7	862.5	940.4	1016.1	1089.3	1181.4	1270.4	1355.6	1442.7
-70°	544.8	613.8	678.9	741.8	802.9	864.5	929.4	992.0	1052.1	1115.3	1187.1
-72.5°	444.3	504.8	564.0	621.6	675.4	727.2	777.2	825.4	875.2	925.3	973.0
-75°	347.9	395.2	445.4	494.8	542.8	589.3	633.9	675.1	714.7	752.4	788.3
-77.5°	254.8	294.2	332.6	370.1	407.0	445.7	483.1	519.0	553.5	586.3	617.6
-80°	171.2	192.9	223.2	253.2	282.2	310.4	337.5	363.6	388.6	413.6	438.6
-82.5°	106.3	122.6	138.5	153.9	168.9	183.4	198.9	218.4	237.1	255.0	272.0
-85°	48.1	52.1	62.5	72.8	82.8	92.5	101.8	110.7	119.3	127.5	135.2
-87.5°	24.1	26.0	28.0	29.9	31.7	33.5	35.2	36.8	38.4	39.9	41.3
-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: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-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°	42.7	43.9	45.1	46.2	47.2	48.1	49.0	49.7	50.3	50.9	51.3
85°	142.6	149.5	155.9	161.9	167.4	172.3	176.8	180.8	184.3	187.3	189.7
82.5°	288.0	303.0	317.1	330.2	342.2	353.1	362.9	371.7	379.3	385.7	391.0
80°	462.1	484.3	505.0	524.2	541.9	558.0	572.5	585.3	596.5	606.0	613.8
77.5°	646.2	672.8	697.5	720.6	741.7	761.0	778.4	793.8	807.3	818.7	828.1
75°	822.3	855.5	889.3	920.8	949.8	976.2	1000.0	1021.1	1039.5	1055.1	1068.0
72.5°	1018.1	1060.5	1103.2	1151.6	1196.3	1237.0	1273.7	1306.3	1334.7	1358.9	1378.7
70°	1255.2	1319.2	1379.2	1440.4	1505.4	1564.7	1618.1	1665.6	1707.1	1742.3	1771.2
67.5°	1539.9	1631.6	1717.5	1797.3	1880.5	1961.2	2034.0	2098.7	2155.1	2203.1	2242.6
65°	1872.9	1995.8	2111.0	2218.3	2318.5	2435.6	2541.2	2635.2	2717.2	2787.1	2844.5
62.5°	2259.2	2419.6	2584.9	2738.9	2881.1	3021.5	3158.0	3279.5	3385.6	3476.0	3550.4
60°	2738.9	2932.5	3141.4	3338.4	3520.5	3687.3	3842.8	3981.3	4102.4	4205.6	4290.6
57.5°	3274.9	3520.5	3753.6	3976.0	4181.9	4370.6	4537.0	4682.6	4810.0	4918.7	5008.2
55°	3842.8	4118.0	4377.2	4611.7	4826.5	5023.4	5198.1	5339.2	5462.7	5568.1	5655.1
52.5°	4416.1	4701.9	4970.3	5215.5	5421.9	5611.6	5783.7	5925.2	6046.9	6150.9	6236.8
50°	4957.3	5253.0	5509.4	5749.8	5957.5	6143.1	6311.8	6455.8	6575.4	6677.8	6762.4
47.5°	5451.7	5743.1	5998.6	6232.5	6444.5	6625.7	6790.7	6936.6	7056.3	7158.8	7243.6
45°	5903.0	6184.6	6445.7	6672.6	6884.3	7066.7	7230.8	7378.3	7493.1	7589.5	7669.4
42.5°	6310.5	6589.7	6847.5	7076.8	7286.2	7468.8	7622.2	7760.2	7872.4	7962.5	8037.2
40°	6677.1	6962.0	7215.4	7447.1	7641.5	7820.8	7963.0	8091.3	8200.8	8286.7	8358.0
37.5°	7017.1	7299.7	7546.2	7767.7	7953.3	8120.0	8260.8	8382.5	8489.9	8569.5	8635.8
35°	7328.0	7596.4	7840.3	8043.4	8227.3	8384.3	8523.0	8635.2	8734.9	8810.8	8871.2
32.5°	7596.4	7862.5	8089.0	8289.0	8468.5	8615.0	8748.0	8850.8	8941.3	9014.3	9070.5
30°	7840.3	8089.0	8309.7	8507.8	8671.3	8814.0	8933.7	9034.1	9117.8	9187.4	9236.8
27.5°	8043.4	8289.0	8507.8	8690.3	8846.8	8984.2	9093.8	9190.5	9263.5	9327.6	9370.1
25°	8227.3	8468.5	8671.3	8846.8	8998.8	9124.2	9228.6	9316.2	9380.9	9435.7	9467.3
22.5°	8384.3	8615.0	8814.0	8984.2	9124.2	9241.5	9339.8	9413.9	9466.9	9500.1	9518.8
20°	8523.0	8748.0	8933.7	9093.8	9228.6	9339.8	9425.1	9479.9	9516.8	9526.0	9531.3
17.5°	8635.2	8850.8	9034.1	9190.5	9316.2	9413.9	9479.9	9518.6	9529.7	9527.6	9522.1
15°	8734.9	8941.3	9117.8	9263.5	9380.9	9466.9	9516.8	9529.7	9526.4	9515.2	9498.0
12.5°	8810.8	9014.3	9187.4	9327.6	9435.7	9500.1	9526.0	9527.6	9515.2	9493.8	9469.5
10°	8871.2	9070.5	9236.8	9370.1	9467.3	9518.8	9531.3	9522.1	9498.0	9469.5	9442.4
7.5°	8919.1	9115.0	9276.1	9404.0	9488.0	9524.6	9527.3	9510.0	9481.1	9448.7	9419.4
5°	8953.6	9147.4	9304.7	9428.7	9503.2	9528.8	9524.3	9500.5	9467.0	9433.1	9406.3
2.5°	8974.6	9166.9	9322.1	9443.7	9512.5	9531.4	9522.4	9494.6	9458.1	9423.1	9397.6
0°	8981.6	9173.5	9327.9	9448.8	9515.6	9532.3	9521.8	9492.6	9455.1	9419.6	9394.6
-2.5°	8974.6	9166.9	9322.1	9443.7	9512.5	9531.4	9522.4	9494.6	9458.1	9423.1	9397.6
-5°	8953.6	9147.4	9304.7	9428.7	9503.2	9528.8	9524.3	9500.5	9467.0	9433.1	9406.3
-7.5°	8919.1	9115.0	9276.1	9404.0	9488.0	9524.6	9527.3	9510.0	9481.1	9448.7	9419.4
-10°	8871.2	9070.5	9236.8	9370.1	9467.3	9518.8	9531.3	9522.1	9498.0	9469.5	9442.4
-12.5°	8810.8	9014.3	9187.4	9327.6	9435.7	9500.1	9526.0	9527.6	9515.2	9493.8	9469.5
-15°	8734.9	8941.3	9117.8	9263.5	9380.9	9466.9	9516.8	9529.7	9526.4	9515.2	9498.0
-17.5°	8635.2	8850.8	9034.1	9190.5	9316.2	9413.9	9479.9	9518.6	9529.7	9527.6	9522.1
-20°	8523.0	8748.0	8933.7	9093.8	9228.6	9339.8	9425.1	9479.9	9516.8	9526.0	9531.3



REPORT NUMBER: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-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°	8384.3	8615.0	8814.0	8984.2	9124.2	9241.5	9339.8	9413.9	9466.9	9500.1	9518.8
-25°	8227.3	8468.5	8671.3	8846.8	8998.8	9124.2	9228.6	9316.2	9380.9	9435.7	9467.3
-27.5°	8043.4	8289.0	8507.8	8690.3	8846.8	8984.2	9093.8	9190.5	9263.5	9327.6	9370.1
-30°	7840.3	8089.0	8309.7	8507.8	8671.3	8814.0	8933.7	9034.1	9117.8	9187.4	9236.8
-32.5°	7596.4	7862.5	8089.0	8289.0	8468.5	8615.0	8748.0	8850.8	8941.3	9014.3	9070.5
-35°	7328.0	7596.4	7840.3	8043.4	8227.3	8384.3	8523.0	8635.2	8734.9	8810.8	8871.2
-37.5°	7017.1	7299.7	7546.2	7767.7	7953.3	8120.0	8260.8	8382.5	8489.9	8569.5	8635.8
-40°	6677.1	6962.0	7215.4	7447.1	7641.5	7820.8	7963.0	8091.3	8200.8	8286.7	8358.0
-42.5°	6310.5	6589.7	6847.5	7076.8	7286.2	7468.8	7622.2	7760.2	7872.4	7962.5	8037.2
-45°	5903.0	6184.6	6445.7	6672.6	6884.3	7066.7	7230.8	7378.3	7493.1	7589.5	7669.4
-47.5°	5451.7	5743.1	5998.6	6232.5	6444.5	6625.7	6790.7	6936.6	7056.3	7158.8	7243.6
-50°	4957.3	5253.0	5509.4	5749.8	5957.5	6143.1	6311.8	6455.8	6575.4	6677.8	6762.4
-52.5°	4416.1	4701.9	4970.3	5215.5	5421.9	5611.6	5783.7	5925.2	6046.9	6150.9	6236.8
-55°	3842.8	4118.0	4377.2	4611.7	4826.5	5023.4	5198.1	5339.2	5462.7	5568.1	5655.1
-57.5°	3274.9	3520.5	3753.6	3976.0	4181.9	4370.6	4537.0	4682.6	4810.0	4918.7	5008.2
-60°	2738.9	2932.5	3141.4	3338.4	3520.5	3687.3	3842.8	3981.3	4102.4	4205.6	4290.6
-62.5°	2259.2	2419.6	2584.9	2738.9	2881.1	3021.5	3158.0	3279.5	3385.6	3476.0	3550.4
-65°	1872.9	1995.8	2111.0	2218.3	2318.5	2435.6	2541.2	2635.2	2717.2	2787.1	2844.5
-67.5°	1539.9	1631.6	1717.5	1797.3	1880.5	1961.2	2034.0	2098.7	2155.1	2203.1	2242.6
-70°	1255.2	1319.2	1379.2	1440.4	1505.4	1564.7	1618.1	1665.6	1707.1	1742.3	1771.2
-72.5°	1018.1	1060.5	1103.2	1151.6	1196.3	1237.0	1273.7	1306.3	1334.7	1358.9	1378.7
-75°	822.3	855.5	889.3	920.8	949.8	976.2	1000.0	1021.1	1039.5	1055.1	1068.0
-77.5°	646.2	672.8	697.5	720.6	741.7	761.0	778.4	793.8	807.3	818.7	828.1
-80°	462.1	484.3	505.0	524.2	541.9	558.0	572.5	585.3	596.5	606.0	613.8
-82.5°	288.0	303.0	317.1	330.2	342.2	353.1	362.9	371.7	379.3	385.7	391.0
-85°	142.6	149.5	155.9	161.9	167.4	172.3	176.8	180.8	184.3	187.3	189.7
-87.5°	42.7	43.9	45.1	46.2	47.2	48.1	49.0	49.7	50.3	50.9	51.3
-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: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-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°	51.7	51.9	52.1	52.1	52.1	51.9	51.7	51.3	50.9	50.3	49.7
85°	191.6	192.9	193.7	194.0	193.7	192.9	191.6	189.7	187.3	184.3	180.8
82.5°	395.2	398.1	399.9	400.5	399.9	398.1	395.2	391.0	385.7	379.3	371.7
80°	619.9	624.3	626.9	627.8	626.9	624.3	619.9	613.8	606.0	596.5	585.3
77.5°	835.4	840.6	843.8	844.8	843.8	840.6	835.4	828.1	818.7	807.3	793.8
75°	1078.0	1085.1	1089.5	1090.9	1089.5	1085.1	1078.0	1068.0	1055.1	1039.5	1021.1
72.5°	1394.2	1405.3	1412.0	1414.2	1412.0	1405.3	1394.2	1378.7	1358.9	1334.7	1306.3
70°	1793.8	1810.0	1819.8	1823.0	1819.8	1810.0	1793.8	1771.2	1742.3	1707.1	1665.6
67.5°	2273.4	2295.5	2308.8	2313.2	2308.8	2295.5	2273.4	2242.6	2203.1	2155.1	2098.7
65°	2889.4	2921.5	2940.9	2947.3	2940.9	2921.5	2889.4	2844.5	2787.1	2717.2	2635.2
62.5°	3608.5	3650.2	3675.2	3683.6	3675.2	3650.2	3608.5	3550.4	3476.0	3385.6	3279.5
60°	4357.0	4404.6	4433.2	4442.8	4433.2	4404.6	4357.0	4290.6	4205.6	4102.4	3981.3
57.5°	5078.2	5128.4	5158.6	5168.7	5158.6	5128.4	5078.2	5008.2	4918.7	4810.0	4682.6
55°	5723.1	5771.9	5801.3	5811.1	5801.3	5771.9	5723.1	5655.1	5568.1	5462.7	5339.2
52.5°	6304.0	6352.2	6381.3	6391.0	6381.3	6352.2	6304.0	6236.8	6150.9	6046.9	5925.2
50°	6828.6	6876.2	6904.9	6914.5	6904.9	6876.2	6828.6	6762.4	6677.8	6575.4	6455.8
47.5°	7310.1	7358.0	7386.8	7396.4	7386.8	7358.0	7310.1	7243.6	7158.8	7056.3	6936.6
45°	7732.1	7777.2	7804.4	7813.5	7804.4	7777.2	7732.1	7669.4	7589.5	7493.1	7378.3
42.5°	8095.9	8138.2	8163.8	8172.3	8163.8	8138.2	8095.9	8037.2	7962.5	7872.4	7760.2
40°	8414.1	8454.6	8479.1	8487.3	8479.1	8454.6	8414.1	8358.0	8286.7	8200.8	8091.3
37.5°	8688.1	8725.8	8748.7	8756.3	8748.7	8725.8	8688.1	8635.8	8569.5	8489.9	8382.5
35°	8919.1	8953.6	8974.6	8981.6	8974.6	8953.6	8919.1	8871.2	8810.8	8734.9	8635.2
32.5°	9115.0	9147.4	9166.9	9173.5	9166.9	9147.4	9115.0	9070.5	9014.3	8941.3	8850.8
30°	9276.1	9304.7	9322.1	9327.9	9322.1	9304.7	9276.1	9236.8	9187.4	9117.8	9034.1
27.5°	9404.0	9428.7	9443.7	9448.8	9443.7	9428.7	9404.0	9370.1	9327.6	9263.5	9190.5
25°	9488.0	9503.2	9512.5	9515.6	9512.5	9503.2	9488.0	9467.3	9435.7	9380.9	9316.2
22.5°	9524.6	9528.8	9531.4	9532.3	9531.4	9528.8	9524.6	9518.8	9500.1	9466.9	9413.9
20°	9527.3	9524.3	9522.4	9521.8	9522.4	9524.3	9527.3	9531.3	9526.0	9516.8	9479.9
17.5°	9510.0	9500.5	9494.6	9492.6	9494.6	9500.5	9510.0	9522.1	9527.6	9529.7	9518.6
15°	9481.1	9467.0	9458.1	9455.1	9458.1	9467.0	9481.1	9498.0	9515.2	9526.4	9529.7
12.5°	9448.7	9433.1	9423.1	9419.6	9423.1	9433.1	9448.7	9469.5	9493.8	9515.2	9527.6
10°	9419.4	9406.3	9397.6	9394.6	9397.6	9406.3	9419.4	9442.4	9469.5	9498.0	9522.1
7.5°	9400.5	9388.8	9382.4	9380.0	9382.4	9388.8	9400.5	9419.4	9448.7	9481.1	9510.0
5°	9388.8	9377.1	9367.2	9363.3	9367.2	9377.1	9388.8	9406.3	9433.1	9467.0	9500.5
2.5°	9382.4	9367.2	9352.3	9344.5	9352.3	9367.2	9382.4	9397.6	9423.1	9458.1	9494.6
0°	9380.0	9363.3	9344.5	9346.6	9344.5	9363.3	9380.0	9394.6	9419.6	9455.1	9492.6
-2.5°	9382.4	9367.2	9352.3	9344.5	9352.3	9367.2	9382.4	9397.6	9423.1	9458.1	9494.6
-5°	9388.8	9377.1	9367.2	9363.3	9367.2	9377.1	9388.8	9406.3	9433.1	9467.0	9500.5
-7.5°	9400.5	9388.8	9382.4	9380.0	9382.4	9388.8	9400.5	9419.4	9448.7	9481.1	9510.0
-10°	9419.4	9406.3	9397.6	9394.6	9397.6	9406.3	9419.4	9442.4	9469.5	9498.0	9522.1
-12.5°	9448.7	9433.1	9423.1	9419.6	9423.1	9433.1	9448.7	9469.5	9493.8	9515.2	9527.6
-15°	9481.1	9467.0	9458.1	9455.1	9458.1	9467.0	9481.1	9498.0	9515.2	9526.4	9529.7
-17.5°	9510.0	9500.5	9494.6	9492.6	9494.6	9500.5	9510.0	9522.1	9527.6	9529.7	9518.6
-20°	9527.3	9524.3	9522.4	9521.8	9522.4	9524.3	9527.3	9531.3	9526.0	9516.8	9479.9

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

Scaled Data Report



REPORT NUMBER: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4E-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°	9524.6	9528.8	9531.4	9532.3	9531.4	9528.8	9524.6	9518.8	9500.1	9466.9	9413.9
-25°	9488.0	9503.2	9512.5	9515.6	9512.5	9503.2	9488.0	9467.3	9435.7	9380.9	9316.2
-27.5°	9404.0	9428.7	9443.7	9448.8	9443.7	9428.7	9404.0	9370.1	9327.6	9263.5	9190.5
-30°	9276.1	9304.7	9322.1	9327.9	9322.1	9304.7	9276.1	9236.8	9187.4	9117.8	9034.1
-32.5°	9115.0	9147.4	9166.9	9173.5	9166.9	9147.4	9115.0	9070.5	9014.3	8941.3	8850.8
-35°	8919.1	8953.6	8974.6	8981.6	8974.6	8953.6	8919.1	8871.2	8810.8	8734.9	8635.2
-37.5°	8688.1	8725.8	8748.7	8756.3	8748.7	8725.8	8688.1	8635.8	8569.5	8489.9	8382.5
-40°	8414.1	8454.6	8479.1	8487.3	8479.1	8454.6	8414.1	8358.0	8286.7	8200.8	8091.3
-42.5°	8095.9	8138.2	8163.8	8172.3	8163.8	8138.2	8095.9	8037.2	7962.5	7872.4	7760.2
-45°	7732.1	7777.2	7804.4	7813.5	7804.4	7777.2	7732.1	7669.4	7589.5	7493.1	7378.3
-47.5°	7310.1	7358.0	7386.8	7396.4	7386.8	7358.0	7310.1	7243.6	7158.8	7056.3	6936.6
-50°	6828.6	6876.2	6904.9	6914.5	6904.9	6876.2	6828.6	6762.4	6677.8	6575.4	6455.8
-52.5°	6304.0	6352.2	6381.3	6391.0	6381.3	6352.2	6304.0	6236.8	6150.9	6046.9	5925.2
-55°	5723.1	5771.9	5801.3	5811.1	5801.3	5771.9	5723.1	5655.1	5568.1	5462.7	5339.2
-57.5°	5078.2	5128.4	5158.6	5168.7	5158.6	5128.4	5078.2	5008.2	4918.7	4810.0	4682.6
-60°	4357.0	4404.6	4433.2	4442.8	4433.2	4404.6	4357.0	4290.6	4205.6	4102.4	3981.3
-62.5°	3608.5	3650.2	3675.2	3683.6	3675.2	3650.2	3608.5	3550.4	3476.0	3385.6	3279.5
-65°	2889.4	2921.5	2940.9	2947.3	2940.9	2921.5	2889.4	2844.5	2787.1	2717.2	2635.2
-67.5°	2273.4	2295.5	2308.8	2313.2	2308.8	2295.5	2273.4	2242.6	2203.1	2155.1	2098.7
-70°	1793.8	1810.0	1819.8	1823.0	1819.8	1810.0	1793.8	1771.2	1742.3	1707.1	1665.6
-72.5°	1394.2	1405.3	1412.0	1414.2	1412.0	1405.3	1394.2	1378.7	1358.9	1334.7	1306.3
-75°	1078.0	1085.1	1089.5	1090.9	1089.5	1085.1	1078.0	1068.0	1055.1	1039.5	1021.1
-77.5°	835.4	840.6	843.8	844.8	843.8	840.6	835.4	828.1	818.7	807.3	793.8
-80°	619.9	624.3	626.9	627.8	626.9	624.3	619.9	613.8	606.0	596.5	585.3
-82.5°	395.2	398.1	399.9	400.5	399.9	398.1	395.2	391.0	385.7	379.3	371.7
-85°	191.6	192.9	193.7	194.0	193.7	192.9	191.6	189.7	187.3	184.3	180.8
-87.5°	51.7	51.9	52.1	52.1	52.1	51.9	51.7	51.3	50.9	50.3	49.7
-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: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	49.0	48.1	47.2	46.2	45.1	43.9	42.7	41.3	39.9	38.4	36.8
85°	176.8	172.3	167.4	161.9	155.9	149.5	142.6	135.2	127.5	119.3	110.7
82.5°	362.9	353.1	342.2	330.2	317.1	303.0	288.0	272.0	255.0	237.1	218.4
80°	572.5	558.0	541.9	524.2	505.0	484.3	462.1	438.6	413.6	388.6	363.6
77.5°	778.4	761.0	741.7	720.6	697.5	672.8	646.2	617.6	586.3	553.5	519.0
75°	1000.0	976.2	949.8	920.8	889.3	855.5	822.3	788.3	752.4	714.7	675.1
72.5°	1273.7	1237.0	1196.3	1151.6	1103.2	1060.5	1018.1	973.0	925.3	875.2	825.4
70°	1618.1	1564.7	1505.4	1440.4	1379.2	1319.2	1255.2	1187.1	1115.3	1052.1	992.0
67.5°	2034.0	1961.2	1880.5	1797.3	1717.5	1631.6	1539.9	1442.7	1355.6	1270.4	1181.4
65°	2541.2	2435.6	2318.5	2218.3	2111.0	1995.8	1872.9	1755.9	1641.4	1521.3	1399.7
62.5°	3158.0	3021.5	2881.1	2738.9	2584.9	2419.6	2259.2	2115.1	1963.2	1807.2	1668.8
60°	3842.8	3687.3	3520.5	3338.4	3141.4	2932.5	2738.9	2534.0	2318.5	2142.9	1961.2
57.5°	4537.0	4370.6	4181.9	3976.0	3753.6	3520.5	3274.9	3015.3	2771.0	2525.5	2279.7
55°	5198.1	5023.4	4826.5	4611.7	4377.2	4118.0	3842.8	3556.4	3260.9	2952.3	2675.3
52.5°	5783.7	5611.6	5421.9	5215.5	4970.3	4701.9	4416.1	4102.4	3773.8	3438.7	3093.6
50°	6311.8	6143.1	5957.5	5749.8	5509.4	5253.0	4957.3	4634.7	4290.6	3923.1	3546.4
47.5°	6790.7	6625.7	6444.5	6232.5	5998.6	5743.1	5451.7	5142.7	4781.6	4404.6	3998.3
45°	7230.8	7066.7	6884.3	6672.6	6445.7	6184.6	5903.0	5586.0	5245.2	4855.6	4442.8
42.5°	7622.2	7468.8	7286.2	7076.8	6847.5	6589.7	6310.5	5996.1	5653.7	5278.6	4855.6
40°	7963.0	7820.8	7641.5	7447.1	7215.4	6962.0	6677.1	6374.0	6027.3	5653.7	5245.2
37.5°	8260.8	8120.0	7953.3	7767.7	7546.2	7299.7	7017.1	6706.5	6374.0	5996.1	5586.0
35°	8523.0	8384.3	8227.3	8043.4	7840.3	7596.4	7328.0	7017.1	6677.1	6310.5	5903.0
32.5°	8748.0	8615.0	8468.5	8289.0	8089.0	7862.5	7596.4	7299.7	6962.0	6589.7	6184.6
30°	8933.7	8814.0	8671.3	8507.8	8309.7	8089.0	7840.3	7546.2	7215.4	6847.5	6445.7
27.5°	9093.8	8984.2	8846.8	8690.3	8507.8	8289.0	8043.4	7767.7	7447.1	7076.8	6672.6
25°	9228.6	9124.2	8998.8	8846.8	8671.3	8468.5	8227.3	7953.3	7641.5	7286.2	6884.3
22.5°	9339.8	9241.5	9124.2	8984.2	8814.0	8615.0	8384.3	8120.0	7820.8	7468.8	7066.7
20°	9425.1	9339.8	9228.6	9093.8	8933.7	8748.0	8523.0	8260.8	7963.0	7622.2	7230.8
17.5°	9479.9	9413.9	9316.2	9190.5	9034.1	8850.8	8635.2	8382.5	8091.3	7760.2	7378.3
15°	9516.8	9466.9	9380.9	9263.5	9117.8	8941.3	8734.9	8489.9	8200.8	7872.4	7493.1
12.5°	9526.0	9500.1	9435.7	9327.6	9187.4	9014.3	8810.8	8569.5	8286.7	7962.5	7589.5
10°	9531.3	9518.8	9467.3	9370.1	9236.8	9070.5	8871.2	8635.8	8358.0	8037.2	7669.4
7.5°	9527.3	9524.6	9488.0	9404.0	9276.1	9115.0	8919.1	8688.1	8414.1	8095.9	7732.1
5°	9524.3	9528.8	9503.2	9428.7	9304.7	9147.4	8953.6	8725.8	8454.6	8138.2	7777.2
2.5°	9522.4	9531.4	9512.5	9443.7	9322.1	9166.9	8974.6	8748.7	8479.1	8163.8	7804.4
0°	9521.8	9532.3	9515.6	9448.8	9327.9	9173.5	8981.6	8756.3	8487.3	8172.3	7813.5
-2.5°	9522.4	9531.4	9512.5	9443.7	9322.1	9166.9	8974.6	8748.7	8479.1	8163.8	7804.4
-5°	9524.3	9528.8	9503.2	9428.7	9304.7	9147.4	8953.6	8725.8	8454.6	8138.2	7777.2
-7.5°	9527.3	9524.6	9488.0	9404.0	9276.1	9115.0	8919.1	8688.1	8414.1	8095.9	7732.1
-10°	9531.3	9518.8	9467.3	9370.1	9236.8	9070.5	8871.2	8635.8	8358.0	8037.2	7669.4
-12.5°	9526.0	9500.1	9435.7	9327.6	9187.4	9014.3	8810.8	8569.5	8286.7	7962.5	7589.5
-15°	9516.8	9466.9	9380.9	9263.5	9117.8	8941.3	8734.9	8489.9	8200.8	7872.4	7493.1
-17.5°	9479.9	9413.9	9316.2	9190.5	9034.1	8850.8	8635.2	8382.5	8091.3	7760.2	7378.3
-20°	9425.1	9339.8	9228.6	9093.8	8933.7	8748.0	8523.0	8260.8	7963.0	7622.2	7230.8

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REPORT NUMBER: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	9339.8	9241.5	9124.2	8984.2	8814.0	8615.0	8384.3	8120.0	7820.8	7468.8	7066.7
-25°	9228.6	9124.2	8998.8	8846.8	8671.3	8468.5	8227.3	7953.3	7641.5	7286.2	6884.3
-27.5°	9093.8	8984.2	8846.8	8690.3	8507.8	8289.0	8043.4	7767.7	7447.1	7076.8	6672.6
-30°	8933.7	8814.0	8671.3	8507.8	8309.7	8089.0	7840.3	7546.2	7215.4	6847.5	6445.7
-32.5°	8748.0	8615.0	8468.5	8289.0	8089.0	7862.5	7596.4	7299.7	6962.0	6589.7	6184.6
-35°	8523.0	8384.3	8227.3	8043.4	7840.3	7596.4	7328.0	7017.1	6677.1	6310.5	5903.0
-37.5°	8260.8	8120.0	7953.3	7767.7	7546.2	7299.7	7017.1	6706.5	6374.0	5996.1	5586.0
-40°	7963.0	7820.8	7641.5	7447.1	7215.4	6962.0	6677.1	6374.0	6027.3	5653.7	5245.2
-42.5°	7622.2	7468.8	7286.2	7076.8	6847.5	6589.7	6310.5	5996.1	5653.7	5278.6	4855.6
-45°	7230.8	7066.7	6884.3	6672.6	6445.7	6184.6	5903.0	5586.0	5245.2	4855.6	4442.8
-47.5°	6790.7	6625.7	6444.5	6232.5	5998.6	5743.1	5451.7	5142.7	4781.6	4404.6	3998.3
-50°	6311.8	6143.1	5957.5	5749.8	5509.4	5253.0	4957.3	4634.7	4290.6	3923.1	3546.4
-52.5°	5783.7	5611.6	5421.9	5215.5	4970.3	4701.9	4416.1	4102.4	3773.8	3438.7	3093.6
-55°	5198.1	5023.4	4826.5	4611.7	4377.2	4118.0	3842.8	3556.4	3260.9	2952.3	2675.3
-57.5°	4537.0	4370.6	4181.9	3976.0	3753.6	3520.5	3274.9	3015.3	2771.0	2525.5	2279.7
-60°	3842.8	3687.3	3520.5	3338.4	3141.4	2932.5	2738.9	2534.0	2318.5	2142.9	1961.2
-62.5°	3158.0	3021.5	2881.1	2738.9	2584.9	2419.6	2259.2	2115.1	1963.2	1807.2	1668.8
-65°	2541.2	2435.6	2318.5	2218.3	2111.0	1995.8	1872.9	1755.9	1641.4	1521.3	1399.7
-67.5°	2034.0	1961.2	1880.5	1797.3	1717.5	1631.6	1539.9	1442.7	1355.6	1270.4	1181.4
-70°	1618.1	1564.7	1505.4	1440.4	1379.2	1319.2	1255.2	1187.1	1115.3	1052.1	992.0
-72.5°	1273.7	1237.0	1196.3	1151.6	1103.2	1060.5	1018.1	973.0	925.3	875.2	825.4
-75°	1000.0	976.2	949.8	920.8	889.3	855.5	822.3	788.3	752.4	714.7	675.1
-77.5°	778.4	761.0	741.7	720.6	697.5	672.8	646.2	617.6	586.3	553.5	519.0
-80°	572.5	558.0	541.9	524.2	505.0	484.3	462.1	438.6	413.6	388.6	363.6
-82.5°	362.9	353.1	342.2	330.2	317.1	303.0	288.0	272.0	255.0	237.1	218.4
-85°	176.8	172.3	167.4	161.9	155.9	149.5	142.6	135.2	127.5	119.3	110.7
-87.5°	49.0	48.1	47.2	46.2	45.1	43.9	42.7	41.3	39.9	38.4	36.8
-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: P645490 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	35.2	33.5	31.7	29.9	28.0	26.0	24.1	22.0	19.9	17.8	15.7
85°	101.8	92.5	82.8	72.8	62.5	52.1	48.1	44.0	39.8	35.6	31.3
82.5°	198.9	183.4	168.9	153.9	138.5	122.6	106.3	89.7	72.7	55.4	46.9
80°	337.5	310.4	282.2	253.2	223.2	192.9	171.2	149.1	126.5	103.5	80.1
77.5°	483.1	445.7	407.0	370.1	332.6	294.2	254.8	214.5	179.9	151.2	122.0
75°	633.9	589.3	542.8	494.8	445.4	395.2	347.9	299.7	250.5	200.5	163.6
72.5°	777.2	727.2	675.4	621.6	564.0	504.8	444.3	384.1	326.8	268.6	209.5
70°	929.4	864.5	802.9	741.8	678.9	613.8	544.8	474.2	402.4	335.9	268.6
67.5°	1089.3	1016.1	940.4	862.5	789.7	717.3	643.2	564.8	484.2	402.4	326.8
65°	1296.5	1189.5	1081.9	995.3	906.3	818.7	736.6	652.8	564.8	474.2	384.1
62.5°	1524.9	1383.9	1262.3	1137.2	1028.4	928.3	828.4	736.6	643.2	544.8	444.3
60°	1780.9	1618.1	1450.3	1306.3	1166.4	1039.5	928.3	818.7	717.3	613.8	504.8
57.5°	2074.8	1863.1	1674.5	1487.7	1321.0	1166.4	1028.4	906.3	789.7	678.9	564.0
55°	2389.1	2143.5	1908.6	1693.4	1487.7	1306.3	1137.2	995.3	862.5	741.8	621.6
52.5°	2765.9	2449.1	2166.5	1908.6	1674.5	1450.3	1262.3	1081.9	940.4	802.9	675.4
50°	3164.7	2796.3	2449.1	2143.5	1863.1	1618.1	1383.9	1189.5	1016.1	864.5	727.2
47.5°	3582.4	3164.7	2765.9	2389.1	2074.8	1780.9	1524.9	1296.5	1089.3	929.4	777.2
45°	3998.3	3546.4	3093.6	2675.3	2279.7	1961.2	1668.8	1399.7	1181.4	992.0	825.4
42.5°	4404.6	3923.1	3438.7	2952.3	2525.5	2142.9	1807.2	1521.3	1270.4	1052.1	875.2
40°	4781.6	4290.6	3773.8	3260.9	2771.0	2318.5	1963.2	1641.4	1355.6	1115.3	925.3
37.5°	5142.7	4634.7	4102.4	3556.4	3015.3	2534.0	2115.1	1755.9	1442.7	1187.1	973.0
35°	5451.7	4957.3	4416.1	3842.8	3274.9	2738.9	2259.2	1872.9	1539.9	1255.2	1018.1
32.5°	5743.1	5253.0	4701.9	4118.0	3520.5	2932.5	2419.6	1995.8	1631.6	1319.2	1060.5
30°	5998.6	5509.4	4970.3	4377.2	3753.6	3141.4	2584.9	2111.0	1717.5	1379.2	1103.2
27.5°	6232.5	5749.8	5215.5	4611.7	3976.0	3338.4	2738.9	2218.3	1797.3	1440.4	1151.6
25°	6444.5	5957.5	5421.9	4826.5	4181.9	3520.5	2881.1	2318.5	1880.5	1505.4	1196.3
22.5°	6625.7	6143.1	5611.6	5023.4	4370.6	3687.3	3021.5	2435.6	1961.2	1564.7	1237.0
20°	6790.7	6311.8	5783.7	5198.1	4537.0	3842.8	3158.0	2541.2	2034.0	1618.1	1273.7
17.5°	6936.6	6455.8	5925.2	5339.2	4682.6	3981.3	3279.5	2635.2	2098.7	1665.6	1306.3
15°	7056.3	6575.4	6046.9	5462.7	4810.0	4102.4	3385.6	2717.2	2155.1	1707.1	1334.7
12.5°	7158.8	6677.8	6150.9	5568.1	4918.7	4205.6	3476.0	2787.1	2203.1	1742.3	1358.9
10°	7243.6	6762.4	6236.8	5655.1	5008.2	4290.6	3550.4	2844.5	2242.6	1771.2	1378.7
7.5°	7310.1	6828.6	6304.0	5723.1	5078.2	4357.0	3608.5	2889.4	2273.4	1793.8	1394.2
5°	7358.0	6876.2	6352.2	5771.9	5128.4	4404.6	3650.2	2921.5	2295.5	1810.0	1405.3
2.5°	7386.8	6904.9	6381.3	5801.3	5158.6	4433.2	3675.2	2940.9	2308.8	1819.8	1412.0
0°	7396.4	6914.5	6391.0	5811.1	5168.7	4442.8	3683.6	2947.3	2313.2	1823.0	1414.2
-2.5°	7386.8	6904.9	6381.3	5801.3	5158.6	4433.2	3675.2	2940.9	2308.8	1819.8	1412.0
-5°	7358.0	6876.2	6352.2	5771.9	5128.4	4404.6	3650.2	2921.5	2295.5	1810.0	1405.3
-7.5°	7310.1	6828.6	6304.0	5723.1	5078.2	4357.0	3608.5	2889.4	2273.4	1793.8	1394.2
-10°	7243.6	6762.4	6236.8	5655.1	5008.2	4290.6	3550.4	2844.5	2242.6	1771.2	1378.7
-12.5°	7158.8	6677.8	6150.9	5568.1	4918.7	4205.6	3476.0	2787.1	2203.1	1742.3	1358.9
-15°	7056.3	6575.4	6046.9	5462.7	4810.0	4102.4	3385.6	2717.2	2155.1	1707.1	1334.7
-17.5°	6936.6	6455.8	5925.2	5339.2	4682.6	3981.3	3279.5	2635.2	2098.7	1665.6	1306.3
-20°	6790.7	6311.8	5783.7	5198.1	4537.0	3842.8	3158.0	2541.2	2034.0	1618.1	1273.7



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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°	6625.7	6143.1	5611.6	5023.4	4370.6	3687.3	3021.5	2435.6	1961.2	1564.7	1237.0
-25°	6444.5	5957.5	5421.9	4826.5	4181.9	3520.5	2881.1	2318.5	1880.5	1505.4	1196.3
-27.5°	6232.5	5749.8	5215.5	4611.7	3976.0	3338.4	2738.9	2218.3	1797.3	1440.4	1151.6
-30°	5998.6	5509.4	4970.3	4377.2	3753.6	3141.4	2584.9	2111.0	1717.5	1379.2	1103.2
-32.5°	5743.1	5253.0	4701.9	4118.0	3520.5	2932.5	2419.6	1995.8	1631.6	1319.2	1060.5
-35°	5451.7	4957.3	4416.1	3842.8	3274.9	2738.9	2259.2	1872.9	1539.9	1255.2	1018.1
-37.5°	5142.7	4634.7	4102.4	3556.4	3015.3	2534.0	2115.1	1755.9	1442.7	1187.1	973.0
-40°	4781.6	4290.6	3773.8	3260.9	2771.0	2318.5	1963.2	1641.4	1355.6	1115.3	925.3
-42.5°	4404.6	3923.1	3438.7	2952.3	2525.5	2142.9	1807.2	1521.3	1270.4	1052.1	875.2
-45°	3998.3	3546.4	3093.6	2675.3	2279.7	1961.2	1668.8	1399.7	1181.4	992.0	825.4
-47.5°	3582.4	3164.7	2765.9	2389.1	2074.8	1780.9	1524.9	1296.5	1089.3	929.4	777.2
-50°	3164.7	2796.3	2449.1	2143.5	1863.1	1618.1	1383.9	1189.5	1016.1	864.5	727.2
-52.5°	2765.9	2449.1	2166.5	1908.6	1674.5	1450.3	1262.3	1081.9	940.4	802.9	675.4
-55°	2389.1	2143.5	1908.6	1693.4	1487.7	1306.3	1137.2	995.3	862.5	741.8	621.6
-57.5°	2074.8	1863.1	1674.5	1487.7	1321.0	1166.4	1028.4	906.3	789.7	678.9	564.0
-60°	1780.9	1618.1	1450.3	1306.3	1166.4	1039.5	928.3	818.7	717.3	613.8	504.8
-62.5°	1524.9	1383.9	1262.3	1137.2	1028.4	928.3	828.4	736.6	643.2	544.8	444.3
-65°	1296.5	1189.5	1081.9	995.3	906.3	818.7	736.6	652.8	564.8	474.2	384.1
-67.5°	1089.3	1016.1	940.4	862.5	789.7	717.3	643.2	564.8	484.2	402.4	326.8
-70°	929.4	864.5	802.9	741.8	678.9	613.8	544.8	474.2	402.4	335.9	268.6
-72.5°	777.2	727.2	675.4	621.6	564.0	504.8	444.3	384.1	326.8	268.6	209.5
-75°	633.9	589.3	542.8	494.8	445.4	395.2	347.9	299.7	250.5	200.5	163.6
-77.5°	483.1	445.7	407.0	370.1	332.6	294.2	254.8	214.5	179.9	151.2	122.0
-80°	337.5	310.4	282.2	253.2	223.2	192.9	171.2	149.1	126.5	103.5	80.1
-82.5°	198.9	183.4	168.9	153.9	138.5	122.6	106.3	89.7	72.7	55.4	46.9
-85°	101.8	92.5	82.8	72.8	62.5	52.1	48.1	44.0	39.8	35.6	31.3
-87.5°	35.2	33.5	31.7	29.9	28.0	26.0	24.1	22.0	19.9	17.8	15.7
-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):

	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°	13.5	11.3	9.0	6.8	4.5	2.3	0.0
85°	26.9	22.5	18.1	13.6	9.1	4.5	0.0
82.5°	40.3	33.7	27.1	20.3	13.6	6.8	0.0
80°	56.4	44.9	36.0	27.1	18.1	9.0	0.0
77.5°	92.5	62.6	44.9	33.7	22.5	11.3	0.0
75°	128.2	92.5	56.4	40.3	26.9	13.5	0.0
72.5°	163.6	122.0	80.1	46.9	31.3	15.7	0.0
70°	200.5	151.2	103.5	55.4	35.6	17.8	0.0
67.5°	250.5	179.9	126.5	72.7	39.8	19.9	0.0
65°	299.7	214.5	149.1	89.7	44.0	22.0	0.0
62.5°	347.9	254.8	171.2	106.3	48.1	24.1	0.0
60°	395.2	294.2	192.9	122.6	52.1	26.0	0.0
57.5°	445.4	332.6	223.2	138.5	62.5	28.0	0.0
55°	494.8	370.1	253.2	153.9	72.8	29.9	0.0
52.5°	542.8	407.0	282.2	168.9	82.8	31.7	0.0
50°	589.3	445.7	310.4	183.4	92.5	33.5	0.0
47.5°	633.9	483.1	337.5	198.9	101.8	35.2	0.0
45°	675.1	519.0	363.6	218.4	110.7	36.8	0.0
42.5°	714.7	553.5	388.6	237.1	119.3	38.4	0.0
40°	752.4	586.3	413.6	255.0	127.5	39.9	0.0
37.5°	788.3	617.6	438.6	272.0	135.2	41.3	0.0
35°	822.3	646.2	462.1	288.0	142.6	42.7	0.0
32.5°	855.5	672.8	484.3	303.0	149.5	43.9	0.0
30°	889.3	697.5	505.0	317.1	155.9	45.1	0.0
27.5°	920.8	720.6	524.2	330.2	161.9	46.2	0.0
25°	949.8	741.7	541.9	342.2	167.4	47.2	0.0
22.5°	976.2	761.0	558.0	353.1	172.3	48.1	0.0
20°	1000.0	778.4	572.5	362.9	176.8	49.0	0.0
17.5°	1021.1	793.8	585.3	371.7	180.8	49.7	0.0
15°	1039.5	807.3	596.5	379.3	184.3	50.3	0.0
12.5°	1055.1	818.7	606.0	385.7	187.3	50.9	0.0
10°	1068.0	828.1	613.8	391.0	189.7	51.3	0.0
7.5°	1078.0	835.4	619.9	395.2	191.6	51.7	0.0
5°	1085.1	840.6	624.3	398.1	192.9	51.9	0.0
2.5°	1089.5	843.8	626.9	399.9	193.7	52.1	0.0
0°	1090.9	844.8	627.8	400.5	194.0	52.1	0.0
-2.5°	1089.5	843.8	626.9	399.9	193.7	52.1	0.0
-5°	1085.1	840.6	624.3	398.1	192.9	51.9	0.0
-7.5°	1078.0	835.4	619.9	395.2	191.6	51.7	0.0
-10°	1068.0	828.1	613.8	391.0	189.7	51.3	0.0
-12.5°	1055.1	818.7	606.0	385.7	187.3	50.9	0.0
-15°	1039.5	807.3	596.5	379.3	184.3	50.3	0.0
-17.5°	1021.1	793.8	585.3	371.7	180.8	49.7	0.0
-20°	1000.0	778.4	572.5	362.9	176.8	49.0	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	976.2	761.0	558.0	353.1	172.3	48.1	0.0
-25°	949.8	741.7	541.9	342.2	167.4	47.2	0.0
-27.5°	920.8	720.6	524.2	330.2	161.9	46.2	0.0
-30°	889.3	697.5	505.0	317.1	155.9	45.1	0.0
-32.5°	855.5	672.8	484.3	303.0	149.5	43.9	0.0
-35°	822.3	646.2	462.1	288.0	142.6	42.7	0.0
-37.5°	788.3	617.6	438.6	272.0	135.2	41.3	0.0
-40°	752.4	586.3	413.6	255.0	127.5	39.9	0.0
-42.5°	714.7	553.5	388.6	237.1	119.3	38.4	0.0
-45°	675.1	519.0	363.6	218.4	110.7	36.8	0.0
-47.5°	633.9	483.1	337.5	198.9	101.8	35.2	0.0
-50°	589.3	445.7	310.4	183.4	92.5	33.5	0.0
-52.5°	542.8	407.0	282.2	168.9	82.8	31.7	0.0
-55°	494.8	370.1	253.2	153.9	72.8	29.9	0.0
-57.5°	445.4	332.6	223.2	138.5	62.5	28.0	0.0
-60°	395.2	294.2	192.9	122.6	52.1	26.0	0.0
-62.5°	347.9	254.8	171.2	106.3	48.1	24.1	0.0
-65°	299.7	214.5	149.1	89.7	44.0	22.0	0.0
-67.5°	250.5	179.9	126.5	72.7	39.8	19.9	0.0
-70°	200.5	151.2	103.5	55.4	35.6	17.8	0.0
-72.5°	163.6	122.0	80.1	46.9	31.3	15.7	0.0
-75°	128.2	92.5	56.4	40.3	26.9	13.5	0.0
-77.5°	92.5	62.6	44.9	33.7	22.5	11.3	0.0
-80°	56.4	44.9	36.0	27.1	18.1	9.0	0.0
-82.5°	40.3	33.7	27.1	20.3	13.6	6.8	0.0
-85°	26.9	22.5	18.1	13.6	9.1	4.5	0.0
-87.5°	13.5	11.3	9.0	6.8	4.5	2.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)