

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: P627680 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA5D-727-U-VWR-VSR-XX

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-2019
Report Number: P627680 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA5D-727-U-VWR-VSR-XX
Description: GALLEON FLOOD, FIVE LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N7 WITH VISOR
Light Source: (80) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

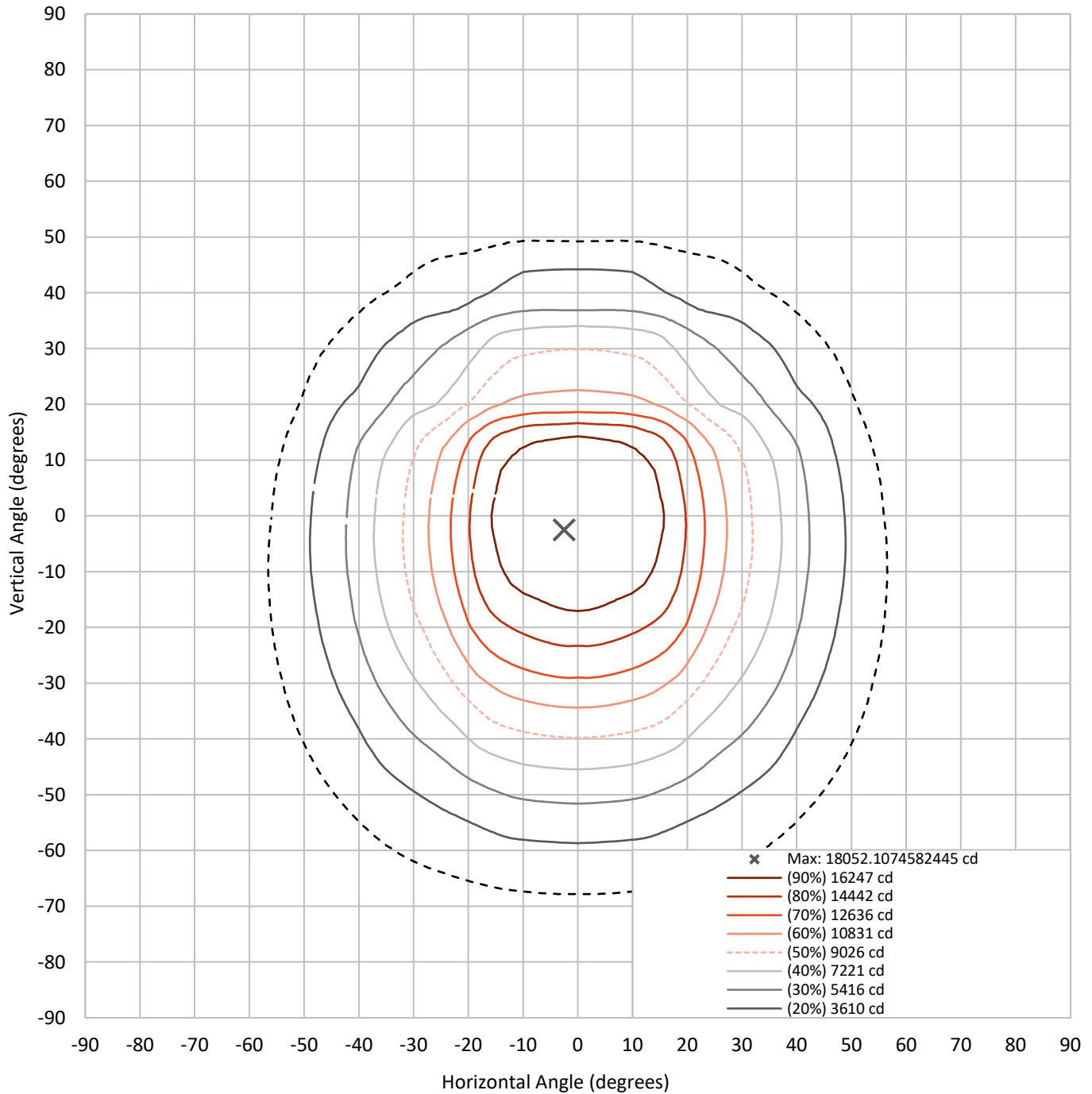
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	24091.2 lumens	Max Intensity:	18052.1 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	88.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	63.9°H x 69.6°V	Field Angle (10%):	112.5°H x 117.1°V
Beam Lumens:	13938.4 lumens	Field Lumens:	22861 lumens
Beam Efficiency:	57.9%	Field Efficiency:	94.9%
Input Watts (W):	271.3		
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





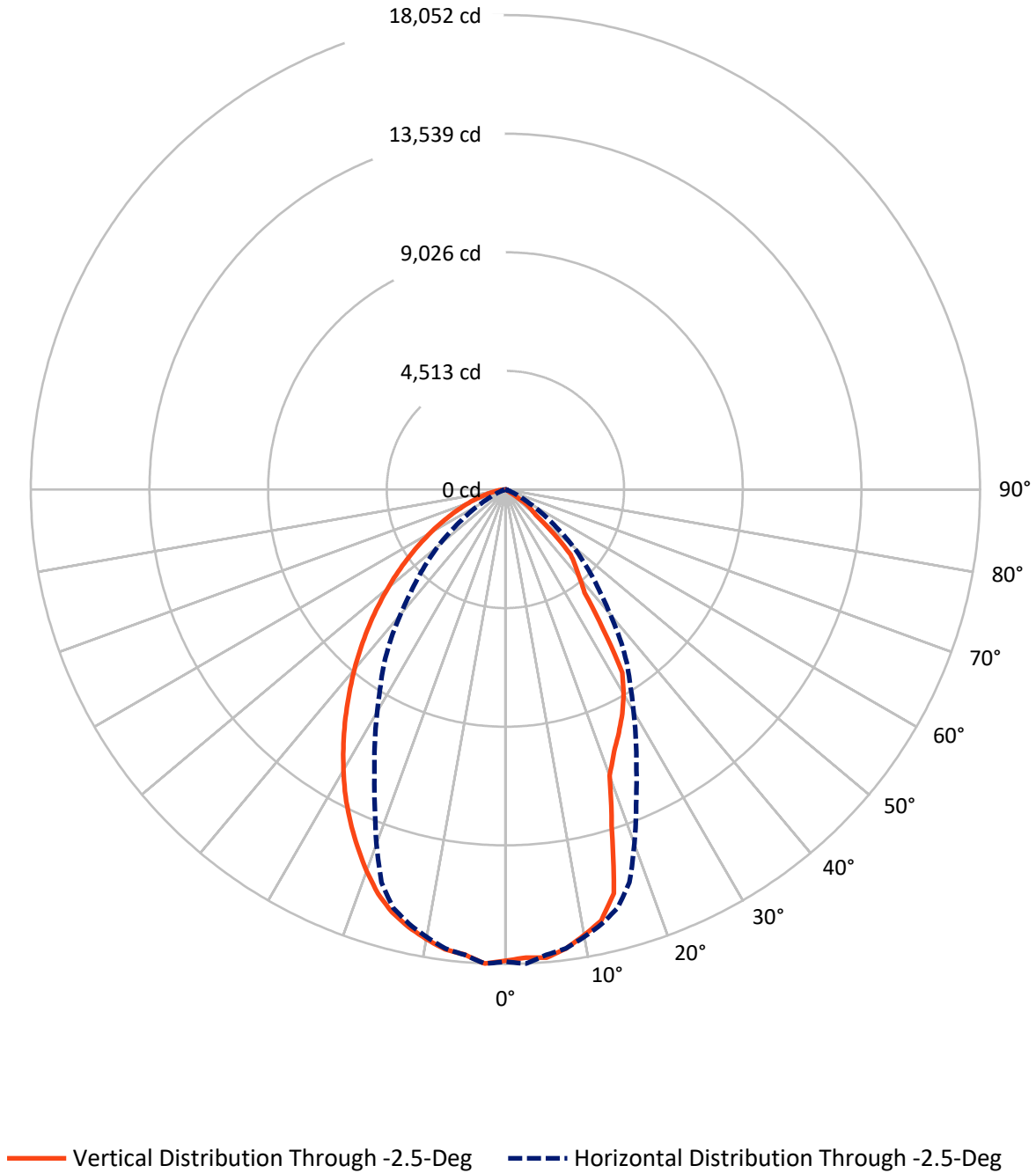
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Lumen Table

90																			
80	0.1	0.1	0.1	0.3	0.3	0.3	0.1	0.1	0.1										
70																			
60	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.2			
50		0.2	0.5	2.2	6.6	12.7	18.8	23.4	23.4	18.8	12.7	6.6	2.2	0.5	0.2				
40	0.4	0.4	2.7	12.3	29.9	53.8	79.4	97.2	97.2	79.4	53.8	29.9	12.3	2.7	0.4	0.4			
30		1.2	8.9	31.3	69.8	113.2	169.7	198.4	198.4	169.7	113.2	69.8	31.3	8.9	1.2				
20	0.7	2.7	17.3	55.4	112.5	178.4	267.6	307.5	307.5	267.6	178.4	112.5	55.4	17.3	2.7	0.7			
10		4.6	26.6	82.0	162.1	266.7	397.1	455.4	455.4	397.1	266.7	162.1	82.0	26.6	4.6				
0	1.2	6.2	34.5	97.5	193.8	318.7	468.9	532.1	532.1	468.9	318.7	193.8	97.5	34.5	6.2	1.2			
-10		7.4	38.1	101.2	199.0	326.0	472.4	534.1	534.1	472.4	326.0	199.0	101.2	38.1	7.4				
-20	1.5	7.7	37.2	95.8	187.7	305.3	438.4	495.3	495.3	438.4	305.3	187.7	95.8	37.2	7.7	1.5			
-30		7.0	32.6	83.6	162.1	259.5	367.5	416.2	416.2	367.5	259.5	162.1	83.6	32.6	7.0				
-40	1.5	5.9	26.0	65.7	127.5	200.2	280.7	317.8	317.8	280.7	200.2	127.5	65.7	26.0	5.9	1.5			
-50		4.7	19.2	46.9	91.4	140.8	194.3	220.5	220.5	194.3	140.8	91.4	46.9	19.2	4.7				
-60	1.2	3.5	12.6	30.1	56.8	87.4	118.7	135.4	135.4	118.7	87.4	56.8	30.1	12.6	3.5	1.2			
-70		2.5	7.6	17.6	31.2	46.4	61.4	69.5	69.5	61.4	46.4	31.2	17.6	7.6	2.5				
-80	0.4	5.6	26.0	56.6	63.3	56.6	26.0	5.6	0.4										
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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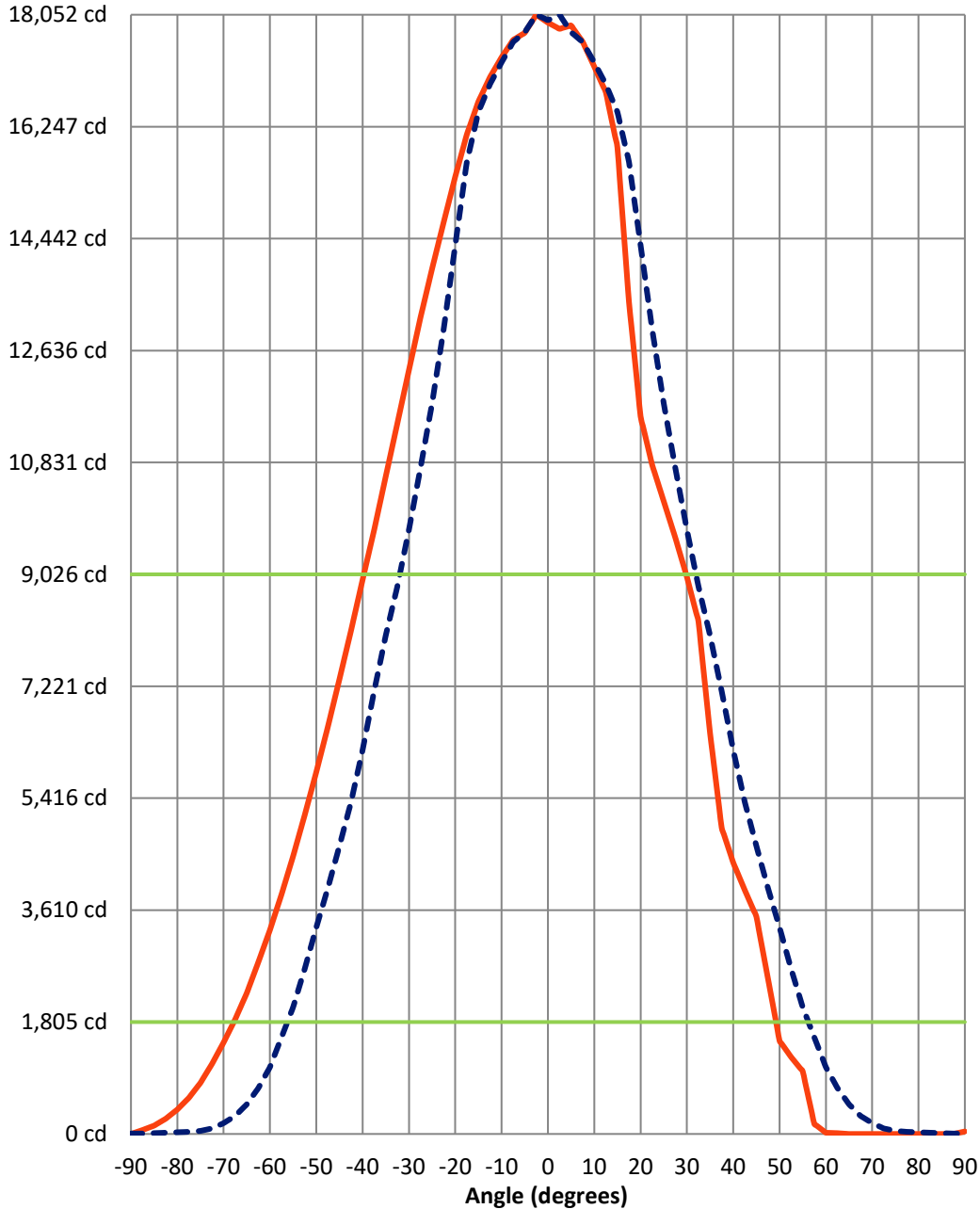
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 63.9°
 V Angle: 69.6°
 Lumens: 13938.4
 Efficiency: 57.9%

Field:
 H Angle: 112.5°
 V Angle: 117.1°
 Lumens: 22861
 Efficiency: 94.9%

Spill:
 Lumens: 1230.2
 Efficiency: 5.1%

— Vertical Distribution through -2.5-Deg
 - - Horizontal Distribution through -2.5-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°	6.7	6.7	6.7	8.4	10.1	11.8	13.5	15.2	16.9	18.5	20.2
87.5°	6.7	6.7	6.7	6.5	6.1	5.6	5.0	3.5	2.2	1.0	0.0
85°	6.7	6.7	6.7	6.3	5.5	4.5	3.3	2.0	1.1	0.4	0.0
82.5°	6.7	6.7	6.7	6.1	5.0	3.5	1.6	0.5	0.2	1.0	1.8
80°	6.7	6.7	6.7	5.9	4.5	2.5	0.3	1.3	2.4	3.5	4.6
77.5°	6.7	6.7	6.7	5.7	3.9	2.2	2.1	3.3	4.7	6.0	6.1
75°	6.7	6.7	6.7	5.5	3.7	3.3	3.7	5.3	6.6	5.5	3.5
72.5°	6.7	6.7	6.7	5.4	4.3	4.3	5.4	6.6	5.7	3.9	1.2
70°	6.7	6.7	6.7	5.4	4.8	5.3	6.7	6.3	4.9	2.6	3.1
67.5°	6.7	6.7	6.7	5.6	5.3	6.3	6.9	6.2	4.4	5.2	6.0
65°	6.7	6.7	6.7	5.8	5.8	6.9	7.2	6.1	6.7	7.8	8.3
62.5°	6.7	6.7	6.7	6.0	6.3	7.5	7.5	7.6	9.1	10.2	9.3
60°	6.7	6.7	6.7	6.2	6.7	8.1	8.0	9.6	11.4	11.7	10.5
57.5°	6.7	6.7	6.8	6.3	7.3	8.7	9.6	11.7	13.3	13.5	13.2
55°	6.7	6.7	6.9	6.5	8.0	9.4	11.3	13.7	15.4	15.6	16.4
52.5°	6.7	6.7	7.0	6.6	8.7	10.3	13.0	15.6	17.6	18.5	19.6
50°	6.7	6.7	7.2	6.7	9.5	11.7	14.6	17.5	20.0	21.4	22.8
47.5°	6.7	6.7	7.3	6.9	10.3	13.0	16.3	19.4	22.5	24.3	25.9
45°	6.7	6.7	7.5	7.5	11.1	14.4	17.8	21.3	24.9	27.1	29.0
42.5°	6.7	6.7	7.7	8.1	12.0	15.6	19.4	23.3	27.4	29.9	35.2
40°	6.7	6.7	8.0	8.9	12.9	16.9	20.9	25.6	30.1	32.7	42.0
37.5°	6.7	6.7	8.3	9.8	13.9	18.1	22.3	28.0	32.9	37.1	49.0
35°	6.7	6.7	8.5	10.7	14.8	19.3	23.8	30.4	35.8	45.6	62.3
32.5°	6.7	6.7	8.9	11.6	15.7	20.4	25.3	32.9	38.9	55.6	88.9
30°	6.7	6.7	9.2	12.4	16.6	21.5	27.3	35.5	42.1	66.9	114.8
27.5°	6.7	6.7	9.5	13.2	17.6	22.5	29.3	38.1	47.7	79.5	139.9
25°	6.7	6.7	9.9	14.0	18.7	23.5	31.3	40.8	57.4	98.0	164.4
22.5°	6.7	6.7	10.3	14.8	19.7	24.6	33.3	43.4	67.7	118.2	196.9
20°	6.7	6.7	10.6	15.5	20.7	25.8	35.2	46.0	78.4	137.5	229.1
17.5°	6.7	6.7	11.0	16.2	21.6	27.0	37.1	48.6	89.2	155.6	260.8
15°	6.7	6.7	11.4	16.9	22.5	28.1	39.0	52.1	100.1	172.6	291.5
12.5°	6.7	6.7	11.8	17.5	23.4	29.2	40.7	56.8	112.3	188.3	321.0
10°	6.7	6.7	12.1	18.1	24.2	30.2	42.3	61.7	125.1	206.7	350.6
7.5°	6.7	6.7	12.5	18.7	25.0	31.2	43.8	66.7	137.4	224.5	381.7
5°	6.7	6.7	12.9	19.2	25.7	32.1	45.1	71.6	148.8	241.0	410.3
2.5°	6.7	6.7	13.2	19.7	26.4	32.9	46.2	76.4	159.2	256.1	435.9
0°	6.7	6.7	13.5	20.2	27.0	33.7	47.2	80.9	168.5	269.5	458.2
-2.5°	6.7	6.7	13.5	20.2	27.0	33.7	47.2	80.9	168.5	269.5	458.2
-5°	6.7	6.7	13.4	20.1	28.1	35.1	52.2	96.7	180.6	309.5	494.7
-7.5°	6.7	6.7	13.4	20.0	28.5	35.6	54.3	103.2	184.8	324.7	507.6
-10°	6.7	6.7	13.3	19.9	28.8	36.1	56.0	108.7	187.9	335.7	517.0
-12.5°	6.7	6.7	13.2	19.7	29.0	36.6	57.3	112.7	190.0	341.5	524.4
-15°	6.7	6.7	13.0	19.5	29.1	36.9	58.2	115.2	193.9	340.9	527.1
-17.5°	6.7	6.7	12.9	19.3	29.0	37.2	58.5	117.6	199.8	337.4	523.8
-20°	6.7	6.7	12.7	19.0	28.8	37.5	60.0	120.1	203.5	331.3	514.2

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CATALOG NUMBER: GFLD-SA5D-727-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.7	6.7	12.5	18.7	28.5	37.6	63.8	121.1	205.2	322.4	497.9
-25°	6.7	6.7	12.2	18.3	28.0	40.1	67.0	120.7	204.6	311.0	474.6
-27.5°	6.7	6.7	12.0	17.9	27.3	43.2	69.4	118.9	201.7	301.2	457.5
-30°	6.7	6.7	11.7	17.5	26.6	45.9	71.1	115.6	197.9	296.8	438.4
-32.5°	6.7	6.7	11.4	17.0	27.6	48.2	72.0	115.8	193.1	289.4	416.7
-35°	6.7	6.7	11.0	16.5	28.3	49.9	73.9	116.4	186.4	279.0	392.7
-37.5°	6.7	6.7	10.7	16.0	28.8	51.0	75.9	116.0	177.8	265.4	382.0
-40°	6.7	6.7	10.3	15.5	29.0	51.4	77.1	114.4	167.3	252.4	370.0
-42.5°	6.7	6.7	9.9	15.2	29.2	51.4	77.5	111.8	161.3	242.0	351.6
-45°	6.7	6.7	9.5	15.3	29.3	51.1	77.1	109.4	156.9	229.1	328.6
-47.5°	6.7	6.7	9.1	15.2	29.1	50.3	76.0	107.9	151.3	213.6	310.4
-50°	6.7	6.7	8.6	15.0	28.6	49.1	74.4	105.2	146.9	208.1	288.8
-52.5°	6.7	6.7	8.2	14.7	27.8	47.6	72.3	101.5	143.1	200.8	265.6
-55°	6.7	6.7	7.7	14.2	26.6	45.6	69.7	96.9	138.4	191.7	254.5
-57.5°	6.7	6.7	7.2	13.7	25.1	43.2	66.6	92.8	131.9	182.1	241.4
-60°	6.7	6.7	6.7	13.1	23.3	40.2	62.9	88.3	123.6	170.7	226.3
-62.5°	6.7	6.7	6.7	12.4	22.0	36.8	57.9	82.2	113.4	157.3	208.7
-65°	6.7	6.7	6.7	11.6	20.6	33.0	52.2	74.5	100.9	139.6	188.6
-67.5°	6.7	6.7	6.7	10.7	19.0	29.6	45.9	65.4	86.6	118.8	162.1
-70°	6.7	6.7	6.7	9.7	17.3	26.9	39.1	55.7	74.2	95.8	131.0
-72.5°	6.7	6.7	6.7	9.5	15.4	24.0	34.5	45.5	61.2	79.4	100.2
-75°	6.7	6.7	6.7	9.4	13.4	20.9	30.0	38.4	47.6	62.6	79.7
-77.5°	6.7	6.7	6.7	9.3	12.7	17.7	25.4	32.3	39.5	47.4	58.4
-80°	6.7	6.7	6.7	9.2	12.2	15.9	20.5	26.0	31.9	38.2	45.0
-82.5°	6.7	6.7	6.7	9.0	11.8	14.9	18.5	21.1	24.0	28.8	34.0
-85°	6.7	6.7	6.7	8.8	11.2	13.9	16.9	19.2	21.4	23.7	25.9
-87.5°	6.7	6.7	6.7	8.6	10.7	12.9	15.2	17.2	19.1	21.1	23.1
-90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	5.0	3.3	1.7	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°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	21.9	23.6	25.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.0	1.7	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.4	3.6	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.8	1.9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1.4	0.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1.1	1.9	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3.8	4.1	2.7	1.1	0.0	0.4	1.0	0.7	0.0	0.3	0.8
67.5°	6.2	4.6	3.0	1.9	2.5	3.4	3.2	3.4	3.6	4.0	3.4
65°	6.5	4.9	5.0	5.9	6.6	7.3	7.8	8.3	7.0	6.0	6.2
62.5°	7.0	7.6	8.7	9.8	10.8	11.7	11.8	10.5	7.9	9.9	11.4
60°	10.0	11.0	12.4	13.8	15.1	15.8	15.1	15.3	17.0	19.7	37.9
57.5°	13.5	14.4	16.1	18.2	20.1	20.4	21.0	22.8	53.4	87.2	96.4
55°	17.0	17.8	20.6	23.9	25.9	25.8	37.0	77.9	117.6	162.9	179.6
52.5°	20.5	21.9	26.8	30.8	33.4	52.0	93.6	149.2	207.8	259.8	327.0
50°	24.0	28.9	33.9	39.8	63.4	111.9	172.9	248.7	337.0	420.1	505.3
47.5°	30.0	36.1	43.8	62.7	125.0	192.4	276.6	398.7	507.6	608.2	725.0
45°	37.1	49.8	58.3	124.2	196.5	283.5	426.1	575.4	674.2	808.9	1015.5
42.5°	44.4	69.0	111.3	187.6	275.7	415.9	592.9	720.1	851.6	1069.8	1287.1
40°	63.9	92.5	168.0	258.6	370.3	574.8	756.4	900.5	1079.9	1321.9	1548.8
37.5°	87.5	141.1	225.7	334.4	518.8	742.9	937.4	1143.1	1349.5	1577.7	1998.4
35°	113.8	186.3	298.9	445.5	667.4	929.3	1161.2	1391.1	1628.9	2078.2	2495.6
32.5°	148.1	227.9	375.4	574.8	828.0	1115.5	1384.7	1650.4	2031.9	2540.3	2959.1
30°	185.0	294.7	463.5	694.4	979.2	1286.0	1609.7	1931.4	2436.2	2856.9	3311.7
27.5°	223.5	365.3	566.7	819.4	1120.7	1446.9	1812.2	2271.1	2721.4	3137.0	3636.8
25°	263.1	438.8	661.2	938.9	1260.0	1620.8	2041.0	2599.9	2952.2	3411.6	3932.9
22.5°	314.0	509.1	754.7	1047.1	1389.1	1799.5	2335.3	2896.6	3311.1	3697.6	4206.8
20°	372.8	588.3	856.4	1182.9	1515.6	1974.1	2628.0	3218.4	3706.0	4148.4	4616.2
17.5°	427.8	662.3	965.2	1321.5	1699.6	2197.8	2915.2	3568.5	4105.2	4598.2	5182.2
15°	478.7	730.8	1071.7	1452.6	1880.5	2454.0	3172.7	3890.3	4503.0	5057.8	5721.4
12.5°	525.1	793.4	1174.4	1575.3	2050.8	2674.9	3389.0	4089.3	4762.8	5485.7	6238.9
10°	567.0	849.6	1271.3	1688.6	2208.7	2861.7	3567.6	4255.3	4934.8	5699.8	6536.6
7.5°	612.0	902.2	1359.3	1791.6	2352.3	3016.0	3710.4	4388.5	5073.8	5871.1	6730.1
5°	653.5	950.6	1429.3	1865.4	2463.3	3136.5	3817.8	4489.7	5179.4	5998.7	6876.7
2.5°	690.0	991.3	1486.3	1923.3	2545.7	3225.1	3887.6	4574.0	5257.6	6102.4	6988.6
0°	721.0	1024.3	1529.7	1967.7	2607.9	3288.5	3928.7	4629.5	5303.4	6172.7	7062.2
-2.5°	740.8	1078.4	1559.5	2045.2	2662.3	3330.0	3965.4	4645.1	5352.7	6194.9	7144.8
-5°	754.7	1122.2	1577.6	2105.0	2697.8	3348.3	3977.5	4633.1	5365.8	6189.3	7157.0
-7.5°	762.8	1153.1	1586.0	2138.9	2710.4	3337.3	3957.1	4610.2	5344.3	6168.1	7103.5
-10°	767.5	1162.8	1597.4	2128.7	2693.9	3301.2	3911.5	4556.7	5283.2	6099.2	7001.8
-12.5°	780.2	1156.6	1595.4	2106.1	2658.4	3246.7	3843.9	4471.9	5181.3	5981.7	6861.2
-15°	783.4	1142.7	1576.3	2072.7	2604.3	3175.3	3755.4	4355.7	5055.7	5867.2	6705.8
-17.5°	776.3	1121.8	1538.9	2030.2	2531.7	3088.8	3651.2	4251.0	4937.9	5735.1	6542.6
-20°	758.3	1094.6	1482.5	1979.9	2445.6	2992.6	3546.8	4141.2	4802.4	5551.7	6359.9

Classified

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

Scaled Data Report



REPORT NUMBER: P627680 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA5D-727-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	728.8	1061.8	1421.5	1909.7	2371.3	2882.2	3424.5	3991.6	4632.7	5314.0	6114.4
-25°	698.3	1024.7	1373.5	1813.3	2281.9	2753.2	3283.9	3808.7	4433.4	5102.5	5812.6
-27.5°	669.4	972.9	1323.5	1707.7	2176.6	2615.6	3125.0	3636.9	4209.1	4864.9	5518.8
-30°	631.5	916.9	1262.5	1606.2	2050.7	2485.9	2947.8	3451.5	3966.0	4588.4	5231.8
-32.5°	598.1	858.8	1193.0	1528.8	1915.3	2339.8	2756.7	3236.8	3739.0	4269.5	4905.3
-35°	575.8	824.4	1119.4	1439.5	1777.2	2180.9	2577.5	2994.6	3480.9	3978.8	4537.0
-37.5°	557.7	784.8	1041.9	1346.4	1667.8	2014.3	2385.5	2769.3	3193.7	3695.7	4220.5
-40°	529.3	740.3	984.5	1257.6	1541.3	1856.3	2200.8	2548.3	2916.2	3406.6	3924.4
-42.5°	492.8	697.2	930.4	1161.0	1420.2	1707.8	2014.0	2341.2	2694.8	3120.7	3596.7
-45°	464.7	642.2	870.3	1076.8	1291.3	1554.4	1842.0	2138.3	2471.8	2837.5	3265.1
-47.5°	429.1	582.2	791.6	984.7	1173.6	1398.1	1661.2	1941.7	2237.0	2566.6	2917.0
-50°	391.0	532.2	695.4	883.3	1063.5	1250.2	1474.5	1734.0	2002.0	2289.2	2601.9
-52.5°	362.0	473.8	622.7	779.1	950.9	1120.2	1311.2	1533.7	1773.0	2013.0	2288.0
-55°	329.3	430.7	553.5	693.7	839.9	996.7	1170.6	1365.4	1560.5	1781.0	2000.5
-57.5°	306.3	389.3	495.7	617.6	748.9	882.1	1046.3	1210.9	1391.6	1574.0	1756.1
-60°	288.3	353.5	441.8	549.1	666.2	790.7	925.4	1077.5	1233.0	1382.0	1539.3
-62.5°	267.7	324.5	393.4	480.9	586.7	695.1	813.7	944.1	1084.8	1210.2	1332.2
-65°	241.1	290.4	349.6	420.8	503.9	595.5	696.5	806.5	928.0	1029.8	1129.5
-67.5°	210.5	252.0	301.7	359.8	429.1	500.6	574.7	667.7	766.4	849.5	930.7
-70°	172.0	210.5	251.0	298.5	352.8	413.4	478.7	546.1	613.6	681.5	755.7
-72.5°	131.7	166.7	201.1	234.9	278.2	327.8	381.0	437.6	496.6	554.6	611.0
-75°	100.4	123.1	153.2	183.7	213.7	246.0	282.0	327.0	381.8	438.1	489.7
-77.5°	75.8	94.8	114.9	135.9	154.9	178.7	204.7	232.6	277.9	329.8	382.2
-80°	54.7	66.1	82.1	98.9	112.3	125.4	139.1	153.3	186.9	228.7	273.3
-82.5°	40.6	48.4	57.2	67.1	73.8	80.3	87.6	97.0	121.9	150.2	180.0
-85°	28.0	30.3	35.0	40.5	44.3	48.1	52.0	55.9	69.4	84.5	100.7
-87.5°	24.1	25.3	26.5	27.9	28.4	28.9	29.3	29.7	34.3	39.0	43.9
-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: P627680 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5D-727-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	27.0	28.7	30.4	32.0	33.7	35.4	37.1	38.7	40.4	40.4	40.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.6	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3.1	3.4	3.5	2.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	7.1	6.7	5.0	3.3	1.6	2.5	4.1	4.8	4.9	4.4	3.4
62.5°	10.6	9.8	8.9	10.3	12.3	14.2	13.6	12.9	12.0	11.4	11.8
60°	39.9	26.6	30.7	38.6	36.0	24.7	40.6	46.0	39.2	26.8	25.9
57.5°	101.0	97.5	111.7	163.2	179.6	163.7	195.5	237.4	236.1	203.3	202.3
55°	215.2	288.7	377.5	391.9	453.7	577.5	673.9	631.6	631.3	663.1	765.5
52.5°	408.7	478.2	504.0	573.0	702.1	795.8	856.0	918.3	986.6	1056.3	1127.0
50°	599.9	667.3	743.8	814.3	993.1	1089.3	1073.2	1202.3	1367.5	1470.7	1523.8
47.5°	879.9	986.1	1147.8	1401.1	1534.5	1630.9	1750.8	1897.0	2086.3	2343.1	2540.9
45°	1209.7	1376.7	1626.8	1895.9	2102.8	2197.2	2334.4	2560.9	2862.7	3156.6	3371.2
42.5°	1479.2	1708.3	1990.4	2247.5	2416.3	2571.2	2748.9	2939.9	3285.6	3599.5	3847.6
40°	1830.9	2009.3	2325.8	2568.2	2719.3	2872.9	3154.5	3440.3	3765.4	4057.9	4261.1
37.5°	2276.6	2477.4	2806.7	3080.8	3226.3	3280.6	3759.4	4157.4	4421.6	4794.9	4917.0
35°	2755.4	3086.0	3505.5	3861.0	4003.7	4288.5	4781.7	5337.0	5938.5	6159.8	6348.4
32.5°	3289.7	3697.5	4266.9	4648.3	4851.9	5284.0	5908.3	6501.0	7287.6	7714.4	7842.1
30°	3778.4	4246.4	4735.8	5106.5	5454.6	5975.1	6544.4	7275.1	8002.4	8548.3	8717.9
27.5°	4137.1	4654.9	5125.4	5472.5	5865.3	6426.5	7136.4	7876.3	8590.3	9147.3	9345.2
25°	4479.5	5064.8	5437.3	5840.9	6302.1	6913.8	7700.4	8522.6	9225.9	9696.5	9939.2
22.5°	4868.9	5446.0	5845.9	6187.8	6790.9	7495.7	8225.9	9154.9	9899.9	10275.5	10538.6
20°	5270.9	5923.8	6541.5	6859.5	7381.4	8273.7	9091.1	9968.2	10687.6	11079.0	11356.1
17.5°	5831.7	6663.8	7421.4	7871.7	8430.5	9497.5	10517.4	11404.7	12405.6	12759.0	13097.7
15°	6423.1	7386.1	8273.6	8987.1	9708.9	10766.0	12079.0	13149.7	14291.7	14801.7	15378.3
12.5°	7012.6	7923.9	8727.9	9648.3	10665.6	11600.8	12850.8	14184.0	15220.3	15870.8	16258.9
10°	7453.2	8299.6	9073.2	9995.9	11011.3	12069.2	13311.2	14678.0	15762.8	16317.8	16634.6
7.5°	7691.1	8501.2	9317.2	10252.2	11263.0	12389.7	13669.5	15025.4	16134.6	16672.4	16985.2
5°	7867.7	8645.7	9490.7	10475.0	11497.0	12639.4	13917.4	15257.2	16268.6	16840.1	17235.7
2.5°	7974.6	8737.4	9601.3	10619.0	11643.5	12833.3	14173.1	15561.9	16446.8	16906.6	17270.4
0°	8005.6	8773.8	9663.3	10694.4	11745.6	12945.1	14272.6	15647.3	16543.6	16988.3	17359.0
-2.5°	8040.5	8831.4	9745.3	10743.2	11785.6	12981.6	14336.8	15676.3	16482.5	16931.3	17283.9
-5°	8016.2	8835.9	9747.0	10702.8	11752.0	12938.6	14239.4	15491.9	16335.3	16820.5	17171.1
-7.5°	7943.7	8775.0	9676.8	10595.3	11624.5	12824.6	14120.0	15326.0	16180.4	16692.1	17075.6
-10°	7838.1	8645.3	9553.2	10483.4	11500.3	12642.6	13918.1	15116.9	15934.7	16477.9	16925.0
-12.5°	7721.1	8511.6	9386.7	10279.0	11284.6	12412.8	13648.7	14783.5	15596.4	16189.0	16508.4
-15°	7547.8	8337.7	9174.3	10037.4	11017.7	12112.2	13292.7	14381.5	15179.7	15661.9	16015.0
-17.5°	7327.3	8102.4	8895.5	9714.2	10637.7	11715.6	12903.2	13977.1	14627.7	15058.4	15405.4
-20°	7091.1	7807.9	8559.4	9331.8	10227.0	11294.7	12461.1	13397.7	14011.0	14424.8	14752.5



REPORT NUMBER: P627680 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5D-727-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6821.3	7511.6	8199.5	8937.9	9815.7	10794.6	11824.8	12729.9	13389.3	13766.2	14069.0
-25°	6513.4	7184.9	7838.1	8551.3	9357.9	10237.9	11195.9	12085.3	12675.9	13076.2	13376.5
-27.5°	6181.8	6812.6	7450.7	8091.2	8816.4	9693.1	10580.3	11406.6	11910.7	12314.2	12616.3
-30°	5850.8	6418.2	7008.5	7614.9	8295.5	9086.0	9915.9	10610.7	11142.3	11534.3	11814.8
-32.5°	5492.0	6030.5	6553.5	7120.2	7761.1	8457.8	9186.0	9847.0	10415.1	10774.1	11010.5
-35°	5124.7	5645.9	6124.6	6639.0	7204.2	7805.5	8477.7	9129.6	9690.5	9974.7	10205.0
-37.5°	4742.0	5261.7	5715.5	6145.2	6632.2	7189.0	7843.7	8465.7	8950.4	9194.6	9402.2
-40°	4409.2	4866.8	5275.3	5686.4	6082.3	6576.8	7187.8	7790.0	8178.8	8416.8	8609.7
-42.5°	4086.1	4472.1	4806.7	5175.3	5571.4	6058.9	6551.9	7056.9	7369.4	7633.6	7836.7
-45°	3709.9	4054.9	4368.6	4675.2	5036.6	5481.5	5929.4	6333.8	6626.5	6881.9	7079.7
-47.5°	3293.8	3626.9	3931.5	4205.6	4541.5	4912.6	5289.7	5626.2	5915.3	6167.6	6344.1
-50°	2906.0	3203.6	3501.0	3778.4	4069.4	4369.7	4675.6	4971.0	5245.4	5490.5	5640.8
-52.5°	2558.6	2833.1	3093.1	3335.6	3590.3	3844.0	4097.3	4367.8	4620.3	4852.4	4972.3
-55°	2244.2	2491.8	2726.4	2930.7	3135.0	3336.2	3553.3	3803.1	4035.6	4250.6	4336.7
-57.5°	1962.0	2173.9	2381.5	2554.3	2721.1	2881.2	3071.8	3282.6	3486.1	3670.4	3740.8
-60°	1702.5	1870.6	2044.2	2197.5	2342.9	2480.2	2646.4	2816.2	2981.2	3120.1	3180.1
-62.5°	1463.8	1607.6	1739.1	1863.7	1986.8	2110.4	2244.6	2379.2	2512.6	2619.5	2673.7
-65°	1233.6	1348.1	1453.8	1556.2	1655.6	1759.4	1864.5	1966.8	2065.5	2141.9	2188.9
-67.5°	1017.5	1104.6	1188.4	1268.2	1351.4	1435.5	1517.7	1596.1	1670.3	1729.4	1774.3
-70°	826.0	893.4	959.0	1025.1	1094.5	1159.9	1221.8	1280.4	1335.6	1378.2	1412.8
-72.5°	665.8	720.5	777.1	836.7	892.8	941.7	986.1	1029.0	1070.1	1094.1	1112.1
-75°	536.8	582.8	632.1	680.2	727.1	764.3	796.9	828.6	859.0	860.6	854.5
-77.5°	433.7	474.8	512.9	550.7	588.2	611.1	631.1	651.7	672.5	660.4	641.4
-80°	318.2	352.5	384.9	417.5	450.0	463.6	473.0	481.2	488.1	472.4	453.0
-82.5°	211.2	232.8	253.8	275.3	297.0	305.7	312.2	317.5	321.7	307.5	291.1
-85°	117.8	128.2	138.4	148.6	158.9	165.0	170.6	175.7	180.4	171.9	162.3
-87.5°	49.0	51.3	53.6	55.9	58.1	60.2	62.4	64.4	66.5	66.8	67.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627680 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5D-727-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	38.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2.0	0.3	0.0	0.0	0.0	0.3	2.0	3.4	4.4	4.9	4.8
62.5°	12.4	12.9	13.3	13.5	13.3	12.9	12.4	11.8	11.4	12.0	12.9
60°	23.8	20.8	20.1	20.2	20.1	20.8	23.8	25.9	26.8	39.2	46.0
57.5°	186.8	159.9	163.9	181.9	163.9	159.9	186.8	202.3	203.3	236.1	237.4
55°	873.0	974.5	1010.4	990.6	1010.4	974.5	873.0	765.5	663.1	631.3	631.6
52.5°	1182.8	1224.5	1240.5	1239.9	1240.5	1224.5	1182.8	1127.0	1056.3	986.6	918.3
50°	1539.8	1525.8	1504.1	1482.5	1504.1	1525.8	1539.8	1523.8	1470.7	1367.5	1202.3
47.5°	2569.8	2525.3	2506.5	2540.5	2506.5	2525.3	2569.8	2540.9	2343.1	2086.3	1897.0
45°	3414.9	3467.1	3506.1	3504.1	3506.1	3467.1	3414.9	3371.2	3156.6	2862.7	2560.9
42.5°	3896.2	3924.0	3932.0	3921.9	3932.0	3924.0	3896.2	3847.6	3599.5	3285.6	2939.9
40°	4325.1	4358.2	4376.8	4393.7	4376.8	4358.2	4325.1	4261.1	4057.9	3765.4	3440.3
37.5°	4957.3	4969.4	4942.9	4926.0	4942.9	4969.4	4957.3	4917.0	4794.9	4421.6	4157.4
35°	6507.4	6539.2	6465.6	6543.3	6465.6	6539.2	6507.4	6348.4	6159.8	5938.5	5337.0
32.5°	7994.1	8142.8	8263.2	8362.8	8263.2	8142.8	7994.1	7842.1	7714.4	7287.6	6501.0
30°	8836.2	8932.2	8983.7	8996.2	8983.7	8932.2	8836.2	8717.9	8548.3	8002.4	7275.1
27.5°	9454.5	9555.1	9617.7	9663.3	9617.7	9555.1	9454.5	9345.2	9147.3	8590.3	7876.3
25°	10050.4	10142.4	10205.0	10229.4	10205.0	10142.4	10050.4	9939.2	9696.5	9225.9	8522.6
22.5°	10668.8	10732.7	10792.9	10822.4	10792.9	10732.7	10668.8	10538.6	10275.5	9899.9	9154.9
20°	11555.2	11520.4	11575.3	11556.9	11575.3	11520.4	11555.2	11356.1	11079.0	10687.6	9968.2
17.5°	13361.7	13380.5	13417.2	13477.5	13417.2	13380.5	13361.7	13097.7	12759.0	12405.6	11404.7
15°	15633.7	15679.4	15911.8	16119.0	15911.8	15679.4	15633.7	15378.3	14801.7	14291.7	13149.7
12.5°	16619.1	16777.3	16801.9	16860.3	16801.9	16777.3	16619.1	16258.9	15870.8	15220.3	14184.0
10°	16948.0	17222.0	17216.1	17284.8	17216.1	17222.0	16948.0	16634.6	16317.8	15762.8	14678.0
7.5°	17197.4	17491.7	17616.1	17669.0	17616.1	17491.7	17197.4	16985.2	16672.4	16134.6	15025.4
5°	17502.2	17664.0	17878.6	17817.2	17878.6	17664.0	17502.2	17235.7	16840.1	16268.6	15257.2
2.5°	17629.9	17883.4	17824.8	17884.6	17824.8	17883.4	17629.9	17270.4	16906.6	16446.8	15561.9
0°	17716.1	17898.1	17925.0	17985.7	17925.0	17898.1	17716.1	17359.0	16988.3	16543.6	15647.3
-2.5°	17611.6	17771.7	18052.1	17965.5	18052.1	17771.7	17611.6	17283.9	16931.3	16482.5	15676.3
-5°	17520.0	17914.1	17761.0	17952.0	17761.0	17914.1	17520.0	17171.1	16820.5	16335.3	15491.9
-7.5°	17472.7	17543.2	17644.8	17790.2	17644.8	17543.2	17472.7	17075.6	16692.1	16180.4	15326.0
-10°	17106.9	17179.0	17365.7	17466.8	17365.7	17179.0	17106.9	16925.0	16477.9	15934.7	15116.9
-12.5°	16710.3	16849.9	17045.9	17109.6	17045.9	16849.9	16710.3	16508.4	16189.0	15596.4	14783.5
-15°	16253.4	16460.7	16651.7	16691.8	16651.7	16460.7	16253.4	16015.0	15661.9	15179.7	14381.5
-17.5°	15672.3	15920.9	16121.6	16166.2	16121.6	15920.9	15672.3	15405.4	15058.4	14627.7	13977.1
-20°	15032.0	15270.1	15440.9	15492.3	15440.9	15270.1	15032.0	14752.5	14424.8	14011.0	13397.7

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REPORT NUMBER: P627680 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA5D-727-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	14346.6	14560.9	14705.3	14683.7	14705.3	14560.9	14346.6	14069.0	13766.2	13389.3	12729.9
-25°	13618.8	13817.7	13955.2	13935.7	13955.2	13817.7	13618.8	13376.5	13076.2	12675.9	12085.3
-27.5°	12849.4	13037.9	13170.0	13174.2	13170.0	13037.9	12849.4	12616.3	12314.2	11910.7	11406.6
-30°	12040.9	12212.1	12319.4	12278.0	12319.4	12212.1	12040.9	11814.8	11534.3	11142.3	10610.7
-32.5°	11207.0	11361.8	11460.2	11489.5	11460.2	11361.8	11207.0	11010.5	10774.1	10415.1	9847.0
-35°	10384.5	10521.0	10606.0	10627.0	10606.0	10521.0	10384.5	10205.0	9974.7	9690.5	9129.6
-37.5°	9567.3	9684.8	9744.1	9717.3	9744.1	9684.8	9567.3	9402.2	9194.6	8950.4	8465.7
-40°	8759.8	8871.6	8939.6	8955.8	8939.6	8871.6	8759.8	8609.7	8416.8	8178.8	7790.0
-42.5°	7965.8	8058.7	8118.4	8147.1	8118.4	8058.7	7965.8	7836.7	7633.6	7369.4	7056.9
-45°	7195.2	7278.3	7334.3	7365.4	7334.3	7278.3	7195.2	7079.7	6881.9	6626.5	6333.8
-47.5°	6445.5	6518.4	6566.7	6590.5	6566.7	6518.4	6445.5	6344.1	6167.6	5915.3	5626.2
-50°	5728.6	5791.8	5836.8	5862.7	5836.8	5791.8	5728.6	5640.8	5490.5	5245.4	4971.0
-52.5°	5048.7	5103.9	5142.3	5161.9	5142.3	5103.9	5048.7	4972.3	4852.4	4620.3	4367.8
-55°	4399.5	4444.3	4479.7	4501.5	4479.7	4444.3	4399.5	4336.7	4250.6	4035.6	3803.1
-57.5°	3794.1	3830.6	3864.3	3888.2	3864.3	3830.6	3794.1	3740.8	3670.4	3486.1	3282.6
-60°	3227.4	3261.9	3290.5	3308.7	3290.5	3261.9	3227.4	3180.1	3120.1	2981.2	2816.2
-62.5°	2716.0	2746.5	2772.7	2789.8	2772.7	2746.5	2716.0	2673.7	2619.5	2512.6	2379.2
-65°	2225.8	2253.2	2272.7	2284.4	2272.7	2253.2	2225.8	2188.9	2141.9	2065.5	1966.8
-67.5°	1812.5	1844.1	1850.3	1846.4	1850.3	1844.1	1812.5	1774.3	1729.4	1670.3	1596.1
-70°	1443.6	1470.3	1476.6	1475.8	1476.6	1470.3	1443.6	1412.8	1378.2	1335.6	1280.4
-72.5°	1128.8	1143.3	1131.0	1111.9	1131.0	1143.3	1128.8	1112.1	1094.1	1070.1	1029.0
-75°	847.0	837.7	824.6	808.6	824.6	837.7	847.0	854.5	860.6	859.0	828.6
-77.5°	620.3	597.4	582.4	566.1	582.4	597.4	620.3	641.4	660.4	672.5	651.7
-80°	432.0	409.5	393.9	377.4	393.9	409.5	432.0	453.0	472.4	488.1	481.2
-82.5°	273.6	255.1	245.8	235.9	245.8	255.1	273.6	291.1	307.5	321.7	317.5
-85°	152.0	141.0	134.6	128.0	134.6	141.0	152.0	162.3	171.9	180.4	175.7
-87.5°	67.2	67.3	64.0	60.6	64.0	67.3	67.2	67.0	66.8	66.5	64.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	37.1	35.4	33.7	32.0	30.4	28.7	27.0	25.3	23.6	21.9	20.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.2	0.2	0.0	0.0	0.6	0.8	0.3	0.0	0.7
67.5°	0.0	0.0	1.2	2.8	3.5	3.4	3.1	3.4	4.0	3.6	3.4
65°	4.1	2.5	1.6	3.3	5.0	6.7	7.1	6.2	6.0	7.0	8.3
62.5°	13.6	14.2	12.3	10.3	8.9	9.8	10.6	11.4	9.9	7.9	10.5
60°	40.6	24.7	36.0	38.6	30.7	26.6	39.9	37.9	19.7	17.0	15.3
57.5°	195.5	163.7	179.6	163.2	111.7	97.5	101.0	96.4	87.2	53.4	22.8
55°	673.9	577.5	453.7	391.9	377.5	288.7	215.2	179.6	162.9	117.6	77.9
52.5°	856.0	795.8	702.1	573.0	504.0	478.2	408.7	327.0	259.8	207.8	149.2
50°	1073.2	1089.3	993.1	814.3	743.8	667.3	599.9	505.3	420.1	337.0	248.7
47.5°	1750.8	1630.9	1534.5	1401.1	1147.8	986.1	879.9	725.0	608.2	507.6	398.7
45°	2334.4	2197.2	2102.8	1895.9	1626.8	1376.7	1209.7	1015.5	808.9	674.2	575.4
42.5°	2748.9	2571.2	2416.3	2247.5	1990.4	1708.3	1479.2	1287.1	1069.8	851.6	720.1
40°	3154.5	2872.9	2719.3	2568.2	2325.8	2009.3	1830.9	1548.8	1321.9	1079.9	900.5
37.5°	3759.4	3280.6	3226.3	3080.8	2806.7	2477.4	2276.6	1998.4	1577.7	1349.5	1143.1
35°	4781.7	4288.5	4003.7	3861.0	3505.5	3086.0	2755.4	2495.6	2078.2	1628.9	1391.1
32.5°	5908.3	5284.0	4851.9	4648.3	4266.9	3697.5	3289.7	2959.1	2540.3	2031.9	1650.4
30°	6544.4	5975.1	5454.6	5106.5	4735.8	4246.4	3778.4	3311.7	2856.9	2436.2	1931.4
27.5°	7136.4	6426.5	5865.3	5472.5	5125.4	4654.9	4137.1	3636.8	3137.0	2721.4	2271.1
25°	7700.4	6913.8	6302.1	5840.9	5437.3	5064.8	4479.5	3932.9	3411.6	2952.2	2599.9
22.5°	8225.9	7495.7	6790.9	6187.8	5845.9	5446.0	4868.9	4206.8	3697.6	3311.1	2896.6
20°	9091.1	8273.7	7381.4	6859.5	6541.5	5923.8	5270.9	4616.2	4148.4	3706.0	3218.4
17.5°	10517.4	9497.5	8430.5	7871.7	7421.4	6663.8	5831.7	5182.2	4598.2	4105.2	3568.5
15°	12079.0	10766.0	9708.9	8987.1	8273.6	7386.1	6423.1	5721.4	5057.8	4503.0	3890.3
12.5°	12850.8	11600.8	10665.6	9648.3	8727.9	7923.9	7012.6	6238.9	5485.7	4762.8	4089.3
10°	13311.2	12069.2	11011.3	9995.9	9073.2	8299.6	7453.2	6536.6	5699.8	4934.8	4255.3
7.5°	13669.5	12389.7	11263.0	10252.2	9317.2	8501.2	7691.1	6730.1	5871.1	5073.8	4388.5
5°	13917.4	12639.4	11497.0	10475.0	9490.7	8645.7	7867.7	6876.7	5998.7	5179.4	4489.7
2.5°	14173.1	12833.3	11643.5	10619.0	9601.3	8737.4	7974.6	6988.6	6102.4	5257.6	4574.0
0°	14272.6	12945.1	11745.6	10694.4	9663.3	8773.8	8005.6	7062.2	6172.7	5303.4	4629.5
-2.5°	14336.8	12981.6	11785.6	10743.2	9745.3	8831.4	8040.5	7144.8	6194.9	5352.7	4645.1
-5°	14239.4	12938.6	11752.0	10702.8	9747.0	8835.9	8016.2	7157.0	6189.3	5365.8	4633.1
-7.5°	14120.0	12824.6	11624.5	10595.3	9676.8	8775.0	7943.7	7103.5	6168.1	5344.3	4610.2
-10°	13918.1	12642.6	11500.3	10483.4	9553.2	8645.3	7838.1	7001.8	6099.2	5283.2	4556.7
-12.5°	13648.7	12412.8	11284.6	10279.0	9386.7	8511.6	7721.1	6861.2	5981.7	5181.3	4471.9
-15°	13292.7	12112.2	11017.7	10037.4	9174.3	8337.7	7547.8	6705.8	5867.2	5055.7	4355.7
-17.5°	12903.2	11715.6	10637.7	9714.2	8895.5	8102.4	7327.3	6542.6	5735.1	4937.9	4251.0
-20°	12461.1	11294.7	10227.0	9331.8	8559.4	7807.9	7091.1	6359.9	5551.7	4802.4	4141.2

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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°	11824.8	10794.6	9815.7	8937.9	8199.5	7511.6	6821.3	6114.4	5314.0	4632.7	3991.6
-25°	11195.9	10237.9	9357.9	8551.3	7838.1	7184.9	6513.4	5812.6	5102.5	4433.4	3808.7
-27.5°	10580.3	9693.1	8816.4	8091.2	7450.7	6812.6	6181.8	5518.8	4864.9	4209.1	3636.9
-30°	9915.9	9086.0	8295.5	7614.9	7008.5	6418.2	5850.8	5231.8	4588.4	3966.0	3451.5
-32.5°	9186.0	8457.8	7761.1	7120.2	6553.5	6030.5	5492.0	4905.3	4269.5	3739.0	3236.8
-35°	8477.7	7805.5	7204.2	6639.0	6124.6	5645.9	5124.7	4537.0	3978.8	3480.9	2994.6
-37.5°	7843.7	7189.0	6632.2	6145.2	5715.5	5261.7	4742.0	4220.5	3695.7	3193.7	2769.3
-40°	7187.8	6576.8	6082.3	5686.4	5275.3	4866.8	4409.2	3924.4	3406.6	2916.2	2548.3
-42.5°	6551.9	6058.9	5571.4	5175.3	4806.7	4472.1	4086.1	3596.7	3120.7	2694.8	2341.2
-45°	5929.4	5481.5	5036.6	4675.2	4368.6	4054.9	3709.9	3265.1	2837.5	2471.8	2138.3
-47.5°	5289.7	4912.6	4541.5	4205.6	3931.5	3626.9	3293.8	2917.0	2566.6	2237.0	1941.7
-50°	4675.6	4369.7	4069.4	3778.4	3501.0	3203.6	2906.0	2601.9	2289.2	2002.0	1734.0
-52.5°	4097.3	3844.0	3590.3	3335.6	3093.1	2833.1	2558.6	2288.0	2013.0	1773.0	1533.7
-55°	3553.3	3336.2	3135.0	2930.7	2726.4	2491.8	2244.2	2000.5	1781.0	1560.5	1365.4
-57.5°	3071.8	2881.2	2721.1	2554.3	2381.5	2173.9	1962.0	1756.1	1574.0	1391.6	1210.9
-60°	2646.4	2480.2	2342.9	2197.5	2044.2	1870.6	1702.5	1539.3	1382.0	1233.0	1077.5
-62.5°	2244.6	2110.4	1986.8	1863.7	1739.1	1607.6	1463.8	1332.2	1210.2	1084.8	944.1
-65°	1864.5	1759.4	1655.6	1556.2	1453.8	1348.1	1233.6	1129.5	1029.8	928.0	806.5
-67.5°	1517.7	1435.5	1351.4	1268.2	1188.4	1104.6	1017.5	930.7	849.5	766.4	667.7
-70°	1221.8	1159.9	1094.5	1025.1	959.0	893.4	826.0	755.7	681.5	613.6	546.1
-72.5°	986.1	941.7	892.8	836.7	777.1	720.5	665.8	611.0	554.6	496.6	437.6
-75°	796.9	764.3	727.1	680.2	632.1	582.8	536.8	489.7	438.1	381.8	327.0
-77.5°	631.1	611.1	588.2	550.7	512.9	474.8	433.7	382.2	329.8	277.9	232.6
-80°	473.0	463.6	450.0	417.5	384.9	352.5	318.2	273.3	228.7	186.9	153.3
-82.5°	312.2	305.7	297.0	275.3	253.8	232.8	211.2	180.0	150.2	121.9	97.0
-85°	170.6	165.0	158.9	148.6	138.4	128.2	117.8	100.7	84.5	69.4	55.9
-87.5°	62.4	60.2	58.1	55.9	53.6	51.3	49.0	43.9	39.0	34.3	29.7
-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):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	18.5	16.9	15.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.2	3.5
85°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	1.1	2.0
82.5°	0.0	0.0	0.0	0.1	1.1	1.7	2.0	1.8	1.0	0.2	0.5
80°	0.0	0.0	0.0	0.2	1.7	3.6	4.4	4.6	3.5	2.4	1.3
77.5°	0.0	0.0	0.0	0.1	0.7	1.9	3.8	6.1	6.0	4.7	3.3
75°	0.0	0.0	0.0	0.3	0.4	0.1	1.4	3.5	5.5	6.6	5.3
72.5°	0.0	0.0	0.0	0.8	1.8	1.9	1.1	1.2	3.9	5.7	6.6
70°	1.0	0.4	0.0	1.1	2.7	4.1	3.8	3.1	2.6	4.9	6.3
67.5°	3.2	3.4	2.5	1.9	3.0	4.6	6.2	6.0	5.2	4.4	6.2
65°	7.8	7.3	6.6	5.9	5.0	4.9	6.5	8.3	7.8	6.7	6.1
62.5°	11.8	11.7	10.8	9.8	8.7	7.6	7.0	9.3	10.2	9.1	7.6
60°	15.1	15.8	15.1	13.8	12.4	11.0	10.0	10.5	11.7	11.4	9.6
57.5°	21.0	20.4	20.1	18.2	16.1	14.4	13.5	13.2	13.5	13.3	11.7
55°	37.0	25.8	25.9	23.9	20.6	17.8	17.0	16.4	15.6	15.4	13.7
52.5°	93.6	52.0	33.4	30.8	26.8	21.9	20.5	19.6	18.5	17.6	15.6
50°	172.9	111.9	63.4	39.8	33.9	28.9	24.0	22.8	21.4	20.0	17.5
47.5°	276.6	192.4	125.0	62.7	43.8	36.1	30.0	25.9	24.3	22.5	19.4
45°	426.1	283.5	196.5	124.2	58.3	49.8	37.1	29.0	27.1	24.9	21.3
42.5°	592.9	415.9	275.7	187.6	111.3	69.0	44.4	35.2	29.9	27.4	23.3
40°	756.4	574.8	370.3	258.6	168.0	92.5	63.9	42.0	32.7	30.1	25.6
37.5°	937.4	742.9	518.8	334.4	225.7	141.1	87.5	49.0	37.1	32.9	28.0
35°	1161.2	929.3	667.4	445.5	298.9	186.3	113.8	62.3	45.6	35.8	30.4
32.5°	1384.7	1115.5	828.0	574.8	375.4	227.9	148.1	88.9	55.6	38.9	32.9
30°	1609.7	1286.0	979.2	694.4	463.5	294.7	185.0	114.8	66.9	42.1	35.5
27.5°	1812.2	1446.9	1120.7	819.4	566.7	365.3	223.5	139.9	79.5	47.7	38.1
25°	2041.0	1620.8	1260.0	938.9	661.2	438.8	263.1	164.4	98.0	57.4	40.8
22.5°	2335.3	1799.5	1389.1	1047.1	754.7	509.1	314.0	196.9	118.2	67.7	43.4
20°	2628.0	1974.1	1515.6	1182.9	856.4	588.3	372.8	229.1	137.5	78.4	46.0
17.5°	2915.2	2197.8	1699.6	1321.5	965.2	662.3	427.8	260.8	155.6	89.2	48.6
15°	3172.7	2454.0	1880.5	1452.6	1071.7	730.8	478.7	291.5	172.6	100.1	52.1
12.5°	3389.0	2674.9	2050.8	1575.3	1174.4	793.4	525.1	321.0	188.3	112.3	56.8
10°	3567.6	2861.7	2208.7	1688.6	1271.3	849.6	567.0	350.6	206.7	125.1	61.7
7.5°	3710.4	3016.0	2352.3	1791.6	1359.3	902.2	612.0	381.7	224.5	137.4	66.7
5°	3817.8	3136.5	2463.3	1865.4	1429.3	950.6	653.5	410.3	241.0	148.8	71.6
2.5°	3887.6	3225.1	2545.7	1923.3	1486.3	991.3	690.0	435.9	256.1	159.2	76.4
0°	3928.7	3288.5	2607.9	1967.7	1529.7	1024.3	721.0	458.2	269.5	168.5	80.9
-2.5°	3965.4	3330.0	2662.3	2045.2	1559.5	1078.4	740.8	478.3	290.8	175.2	89.1
-5°	3977.5	3348.3	2697.8	2105.0	1577.6	1122.2	754.7	494.7	309.5	180.6	96.7
-7.5°	3957.1	3337.3	2710.4	2138.9	1586.0	1153.1	762.8	507.6	324.7	184.8	103.2
-10°	3911.5	3301.2	2693.9	2128.7	1597.4	1162.8	767.5	517.0	335.7	187.9	108.7
-12.5°	3843.9	3246.7	2658.4	2106.1	1595.4	1156.6	780.2	524.4	341.5	190.0	112.7
-15°	3755.4	3175.3	2604.3	2072.7	1576.3	1142.7	783.4	527.1	340.9	193.9	115.2
-17.5°	3651.2	3088.8	2531.7	2030.2	1538.9	1121.8	776.3	523.8	337.4	199.8	117.6
-20°	3546.8	2992.6	2445.6	1979.9	1482.5	1094.6	758.3	514.2	331.3	203.5	120.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3424.5	2882.2	2371.3	1909.7	1421.5	1061.8	728.8	497.9	322.4	205.2	121.1
-25°	3283.9	2753.2	2281.9	1813.3	1373.5	1024.7	698.3	474.6	311.0	204.6	120.7
-27.5°	3125.0	2615.6	2176.6	1707.7	1323.5	972.9	669.4	457.5	301.2	201.7	118.9
-30°	2947.8	2485.9	2050.7	1606.2	1262.5	916.9	631.5	438.4	296.8	197.9	115.6
-32.5°	2756.7	2339.8	1915.3	1528.8	1193.0	858.8	598.1	416.7	289.4	193.1	115.8
-35°	2577.5	2180.9	1777.2	1439.5	1119.4	824.4	575.8	392.7	279.0	186.4	116.4
-37.5°	2385.5	2014.3	1667.8	1346.4	1041.9	784.8	557.7	382.0	265.4	177.8	116.0
-40°	2200.8	1856.3	1541.3	1257.6	984.5	740.3	529.3	370.0	252.4	167.3	114.4
-42.5°	2014.0	1707.8	1420.2	1161.0	930.4	697.2	492.8	351.6	242.0	161.3	111.8
-45°	1842.0	1554.4	1291.3	1076.8	870.3	642.2	464.7	328.6	229.1	156.9	109.4
-47.5°	1661.2	1398.1	1173.6	984.7	791.6	582.2	429.1	310.4	213.6	151.3	107.9
-50°	1474.5	1250.2	1063.5	883.3	695.4	532.2	391.0	288.8	208.1	146.9	105.2
-52.5°	1311.2	1120.2	950.9	779.1	622.7	473.8	362.0	265.6	200.8	143.1	101.5
-55°	1170.6	996.7	839.9	693.7	553.5	430.7	329.3	254.5	191.7	138.4	96.9
-57.5°	1046.3	882.1	748.9	617.6	495.7	389.3	306.3	241.4	182.1	131.9	92.8
-60°	925.4	790.7	666.2	549.1	441.8	353.5	288.3	226.3	170.7	123.6	88.3
-62.5°	813.7	695.1	586.7	480.9	393.4	324.5	267.7	208.7	157.3	113.4	82.2
-65°	696.5	595.5	503.9	420.8	349.6	290.4	241.1	188.6	139.6	100.9	74.5
-67.5°	574.7	500.6	429.1	359.8	301.7	252.0	210.5	162.1	118.8	86.6	65.4
-70°	478.7	413.4	352.8	298.5	251.0	210.5	172.0	131.0	95.8	74.2	55.7
-72.5°	381.0	327.8	278.2	234.9	201.1	166.7	131.7	100.2	79.4	61.2	45.5
-75°	282.0	246.0	213.7	183.7	153.2	123.1	100.4	79.7	62.6	47.6	38.4
-77.5°	204.7	178.7	154.9	135.9	114.9	94.8	75.8	58.4	47.4	39.5	32.3
-80°	139.1	125.4	112.3	98.9	82.1	66.1	54.7	45.0	38.2	31.9	26.0
-82.5°	87.6	80.3	73.8	67.1	57.2	48.4	40.6	34.0	28.8	24.0	21.1
-85°	52.0	48.1	44.3	40.5	35.0	30.3	28.0	25.9	23.7	21.4	19.2
-87.5°	29.3	28.9	28.4	27.9	26.5	25.3	24.1	23.1	21.1	19.1	17.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.3	5.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	13.5	11.8	10.1	8.4	6.7	6.7	6.7
87.5°	5.0	5.6	6.1	6.5	6.7	6.7	6.7
85°	3.3	4.5	5.5	6.3	6.7	6.7	6.7
82.5°	1.6	3.5	5.0	6.1	6.7	6.7	6.7
80°	0.3	2.5	4.5	5.9	6.7	6.7	6.7
77.5°	2.1	2.2	3.9	5.7	6.7	6.7	6.7
75°	3.7	3.3	3.7	5.5	6.7	6.7	6.7
72.5°	5.4	4.3	4.3	5.4	6.7	6.7	6.7
70°	6.7	5.3	4.8	5.4	6.7	6.7	6.7
67.5°	6.9	6.3	5.3	5.6	6.7	6.7	6.7
65°	7.2	6.9	5.8	5.8	6.7	6.7	6.7
62.5°	7.5	7.5	6.3	6.0	6.7	6.7	6.7
60°	8.0	8.1	6.7	6.2	6.7	6.7	6.7
57.5°	9.6	8.7	7.3	6.3	6.8	6.7	6.7
55°	11.3	9.4	8.0	6.5	6.9	6.7	6.7
52.5°	13.0	10.3	8.7	6.6	7.0	6.7	6.7
50°	14.6	11.7	9.5	6.7	7.2	6.7	6.7
47.5°	16.3	13.0	10.3	6.9	7.3	6.7	6.7
45°	17.8	14.4	11.1	7.5	7.5	6.7	6.7
42.5°	19.4	15.6	12.0	8.1	7.7	6.7	6.7
40°	20.9	16.9	12.9	8.9	8.0	6.7	6.7
37.5°	22.3	18.1	13.9	9.8	8.3	6.7	6.7
35°	23.8	19.3	14.8	10.7	8.5	6.7	6.7
32.5°	25.3	20.4	15.7	11.6	8.9	6.7	6.7
30°	27.3	21.5	16.6	12.4	9.2	6.7	6.7
27.5°	29.3	22.5	17.6	13.2	9.5	6.7	6.7
25°	31.3	23.5	18.7	14.0	9.9	6.7	6.7
22.5°	33.3	24.6	19.7	14.8	10.3	6.7	6.7
20°	35.2	25.8	20.7	15.5	10.6	6.7	6.7
17.5°	37.1	27.0	21.6	16.2	11.0	6.7	6.7
15°	39.0	28.1	22.5	16.9	11.4	6.7	6.7
12.5°	40.7	29.2	23.4	17.5	11.8	6.7	6.7
10°	42.3	30.2	24.2	18.1	12.1	6.7	6.7
7.5°	43.8	31.2	25.0	18.7	12.5	6.7	6.7
5°	45.1	32.1	25.7	19.2	12.9	6.7	6.7
2.5°	46.2	32.9	26.4	19.7	13.2	6.7	6.7
0°	47.2	33.7	27.0	20.2	13.5	6.7	6.7
-2.5°	49.8	34.4	27.6	20.2	13.5	6.7	6.7
-5°	52.2	35.1	28.1	20.1	13.4	6.7	6.7
-7.5°	54.3	35.6	28.5	20.0	13.4	6.7	6.7
-10°	56.0	36.1	28.8	19.9	13.3	6.7	6.7
-12.5°	57.3	36.6	29.0	19.7	13.2	6.7	6.7
-15°	58.2	36.9	29.1	19.5	13.0	6.7	6.7
-17.5°	58.5	37.2	29.0	19.3	12.9	6.7	6.7
-20°	60.0	37.5	28.8	19.0	12.7	6.7	6.7

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	63.8	37.6	28.5	18.7	12.5	6.7	6.7
-25°	67.0	40.1	28.0	18.3	12.2	6.7	6.7
-27.5°	69.4	43.2	27.3	17.9	12.0	6.7	6.7
-30°	71.1	45.9	26.6	17.5	11.7	6.7	6.7
-32.5°	72.0	48.2	27.6	17.0	11.4	6.7	6.7
-35°	73.9	49.9	28.3	16.5	11.0	6.7	6.7
-37.5°	75.9	51.0	28.8	16.0	10.7	6.7	6.7
-40°	77.1	51.4	29.0	15.5	10.3	6.7	6.7
-42.5°	77.5	51.4	29.2	15.2	9.9	6.7	6.7
-45°	77.1	51.1	29.3	15.3	9.5	6.7	6.7
-47.5°	76.0	50.3	29.1	15.2	9.1	6.7	6.7
-50°	74.4	49.1	28.6	15.0	8.6	6.7	6.7
-52.5°	72.3	47.6	27.8	14.7	8.2	6.7	6.7
-55°	69.7	45.6	26.6	14.2	7.7	6.7	6.7
-57.5°	66.6	43.2	25.1	13.7	7.2	6.7	6.7
-60°	62.9	40.2	23.3	13.1	6.7	6.7	6.7
-62.5°	57.9	36.8	22.0	12.4	6.7	6.7	6.7
-65°	52.2	33.0	20.6	11.6	6.7	6.7	6.7
-67.5°	45.9	29.6	19.0	10.7	6.7	6.7	6.7
-70°	39.1	26.9	17.3	9.7	6.7	6.7	6.7
-72.5°	34.5	24.0	15.4	9.5	6.7	6.7	6.7
-75°	30.0	20.9	13.4	9.4	6.7	6.7	6.7
-77.5°	25.4	17.7	12.7	9.3	6.7	6.7	6.7
-80°	20.5	15.9	12.2	9.2	6.7	6.7	6.7
-82.5°	18.5	14.9	11.8	9.0	6.7	6.7	6.7
-85°	16.9	13.9	11.2	8.8	6.7	6.7	6.7
-87.5°	15.2	12.9	10.7	8.6	6.7	6.7	6.7
-90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7

(END OF REPORT)