

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: P645480 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA4D-730-U-LAM-XX

Issue Date: 2/28/2023

Test Information

Test Method: LM-79-2019
Report Number: P645480 (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: 5/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA4D-730-U-LAM-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, LAMBERTIAN
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

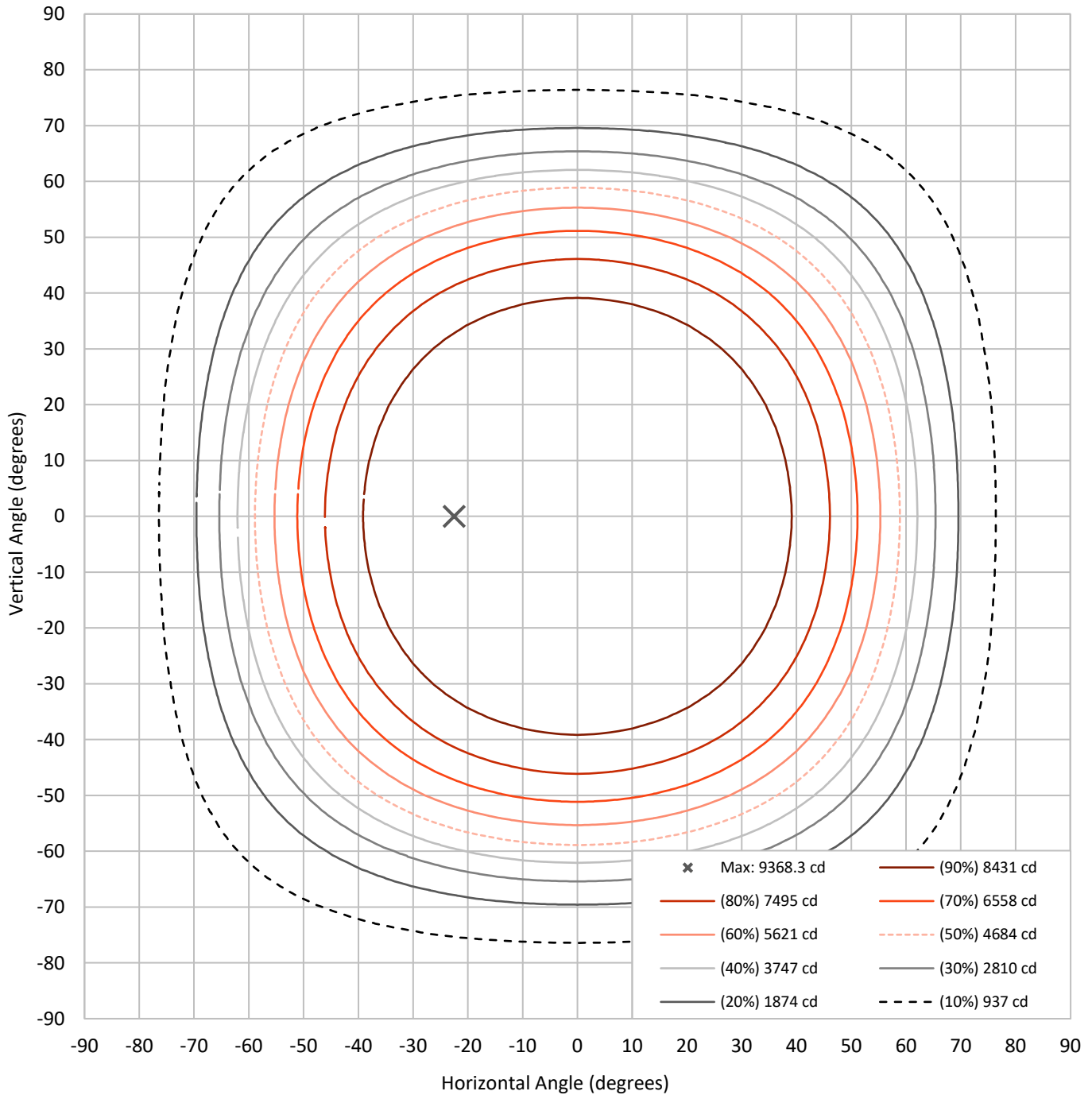
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28658.1 lumens	Max Intensity:	9368.3 candela
Efficiency:	N/A	Max Intensity Angle:	-22.5°H x 0°V
Efficacy:	129.4 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:	23849.8 lumens	Field Lumens:	28094.5 lumens
Beam Efficiency:	83.2%	Field Efficiency:	98.0%
Input Watts (W):	221.4		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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Iso-Candela Plot





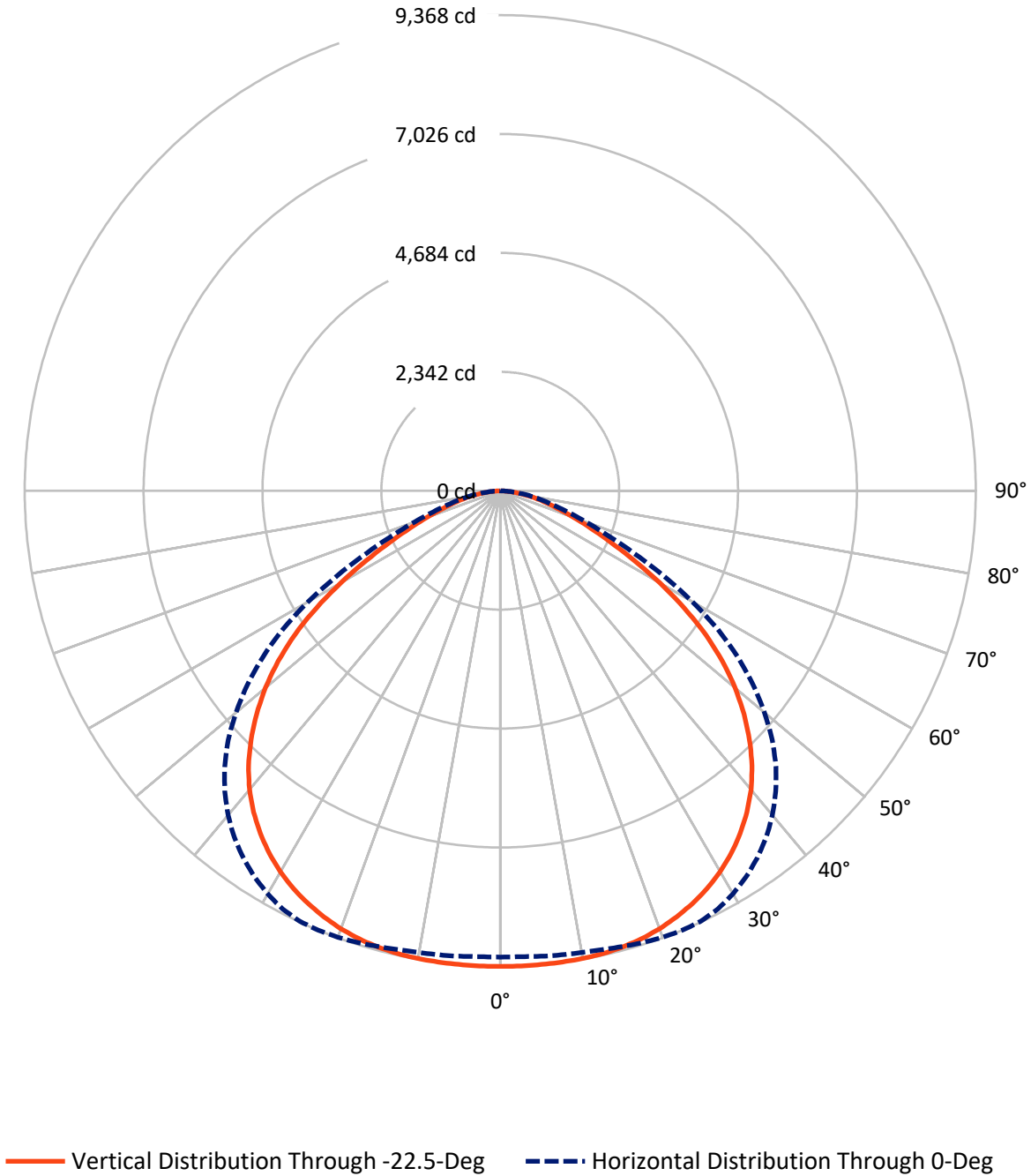
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Lumen Table

90																		
80	1.4	14.8	42.0	69.9	81.8	69.9	42.0	14.8	1.4									
70																		
60	7.1	8.3	17.4	30.5	47.1	65.0	80.4	88.9	88.9	80.4	65.0	47.1	30.5	17.4	8.3	7.1		
50																		
40	13.4	13.0	29.7	57.6	94.2	129.6	156.0	170.0	170.0	156.0	129.6	94.2	57.6	29.7	13.0	13.4		
30																		
20	18.3	18.5	47.0	93.6	143.5	185.3	214.8	230.0	230.0	214.8	185.3	143.5	93.6	47.0	18.5	18.3		
10																		
0	20.2	24.8	66.5	124.2	178.5	221.9	251.1	265.6	265.6	251.1	221.9	178.5	124.2	66.5	24.8	20.2		
-10																		
-20	18.3	31.0	82.8	145.0	200.7	243.0	269.9	281.9	281.9	269.9	243.0	200.7	145.0	82.8	31.0	18.3		
-30																		
-40	13.4	36.0	93.5	157.7	213.1	253.3	274.7	282.1	282.1	274.7	253.3	213.1	157.7	93.5	36.0	13.4		
-50																		
-60	7.1	38.7	98.7	163.7	218.6	256.5	273.5	279.5	279.5	273.5	256.5	218.6	163.7	98.7	38.7	7.1		
-70																		
-80	1.4	38.7	98.7	163.7	218.6	256.5	273.5	279.5	279.5	273.5	256.5	218.6	163.7	98.7	38.7	1.4		
-90																		

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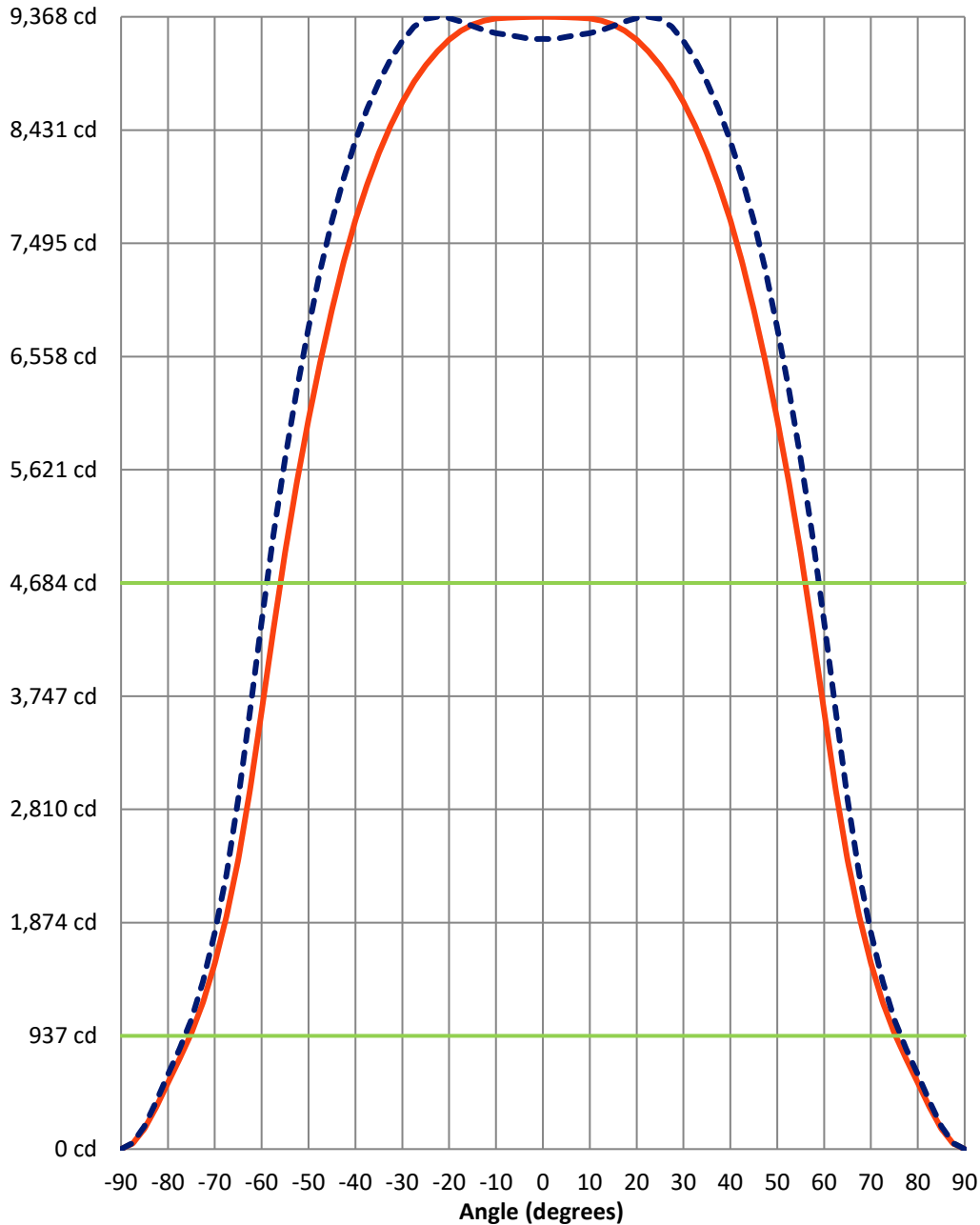
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 117.8°
 V Angle: 112°
 Lumens: 23849.8
 Efficiency: 83.2%

Field:
 H Angle: 152.8°
 V Angle: 150.5°
 Lumens: 28094.5
 Efficiency: 98.0%

Spill:
 Lumens: 563.6
 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	2.2	4.5	6.7	8.9	11.1	13.2	15.4	17.5	19.6	21.6
85°	0.0	4.5	8.9	13.3	17.8	22.1	26.5	30.8	35.0	39.1	43.2
82.5°	0.0	6.7	13.3	20.0	26.6	33.2	39.6	46.1	54.5	71.4	88.1
80°	0.0	8.9	17.8	26.6	35.4	44.1	55.4	78.7	101.7	124.3	146.5
77.5°	0.0	11.1	22.1	33.2	44.1	61.5	90.9	119.9	148.5	176.7	210.8
75°	0.0	13.2	26.5	39.6	55.4	90.9	126.0	160.7	197.0	246.2	294.5
72.5°	0.0	15.4	30.8	46.1	78.7	119.9	160.7	205.9	263.9	321.2	377.4
70°	0.0	17.5	35.0	54.5	101.7	148.5	197.0	263.9	330.1	395.5	466.1
67.5°	0.0	19.6	39.1	71.4	124.3	176.7	246.2	321.2	395.5	475.9	555.1
65°	0.0	21.6	43.2	88.1	146.5	210.8	294.5	377.4	466.1	555.1	641.6
62.5°	0.0	23.6	47.2	104.5	168.2	250.3	341.9	436.6	535.4	632.2	723.9
60°	0.0	25.6	51.2	120.5	189.5	289.1	388.4	496.1	603.3	704.9	804.5
57.5°	0.0	27.5	61.5	136.0	219.3	326.9	437.7	554.3	667.3	776.1	890.7
55°	0.0	29.4	71.6	151.2	248.8	363.7	486.3	610.9	729.0	847.6	978.1
52.5°	0.0	31.2	81.4	165.9	277.3	400.0	533.5	663.7	789.0	924.2	1063.2
50°	0.0	32.9	90.9	180.2	305.0	438.0	579.2	714.6	849.6	998.6	1169.1
47.5°	0.0	34.6	100.0	195.4	331.7	474.8	623.0	763.8	913.4	1070.5	1274.2
45°	0.0	36.2	108.8	214.6	357.3	510.1	663.5	811.1	974.9	1161.1	1375.6
42.5°	0.0	37.7	117.2	233.0	381.9	543.9	702.3	860.1	1033.9	1248.6	1495.2
40°	0.0	39.2	125.3	250.6	406.5	576.2	739.4	909.3	1096.1	1332.3	1613.2
37.5°	0.0	40.6	132.9	267.2	431.0	606.9	774.7	956.2	1166.7	1417.9	1725.8
35°	0.0	41.9	140.1	283.0	454.2	635.1	808.1	1000.5	1233.6	1513.5	1840.7
32.5°	0.0	43.2	146.9	297.8	475.9	661.2	840.7	1042.2	1296.5	1603.6	1961.5
30°	0.0	44.3	153.2	311.6	496.3	685.5	874.0	1084.2	1355.5	1688.0	2074.8
27.5°	0.0	45.4	159.0	324.5	515.2	708.1	904.9	1131.8	1415.7	1766.5	2180.2
25°	0.0	46.4	164.4	336.3	532.5	728.9	933.4	1175.7	1479.5	1848.2	2278.6
22.5°	0.0	47.3	169.3	347.0	548.4	747.9	959.3	1215.7	1537.8	1927.5	2393.7
20°	0.0	48.1	173.7	356.7	562.6	765.0	982.7	1251.8	1590.4	1999.0	2497.5
17.5°	0.0	48.8	177.7	365.3	575.2	780.1	1003.5	1283.9	1637.0	2062.6	2589.9
15°	0.0	49.5	181.1	372.7	586.3	793.3	1021.5	1311.8	1677.7	2118.0	2670.5
12.5°	0.0	50.0	184.0	379.1	595.6	804.5	1036.9	1335.5	1712.4	2165.2	2739.1
10°	0.0	50.4	186.4	384.3	603.3	813.7	1049.5	1355.0	1740.8	2204.0	2795.6
7.5°	0.0	50.8	188.2	388.4	609.3	820.9	1059.4	1370.3	1763.0	2234.3	2839.7
5°	0.0	51.0	189.5	391.3	613.6	826.1	1066.4	1381.2	1778.9	2256.0	2871.3
2.5°	0.0	51.2	190.3	393.0	616.1	829.2	1070.7	1387.7	1788.5	2269.0	2890.3
0°	0.0	51.2	190.6	393.6	617.0	830.2	1072.1	1389.9	1791.7	2273.4	2896.6
-2.5°	0.0	51.2	190.3	393.0	616.1	829.2	1070.7	1387.7	1788.5	2269.0	2890.3
-5°	0.0	51.0	189.5	391.3	613.6	826.1	1066.4	1381.2	1778.9	2256.0	2871.3
-7.5°	0.0	50.8	188.2	388.4	609.3	820.9	1059.4	1370.3	1763.0	2234.3	2839.7
-10°	0.0	50.4	186.4	384.3	603.3	813.7	1049.5	1355.0	1740.8	2204.0	2795.6
-12.5°	0.0	50.0	184.0	379.1	595.6	804.5	1036.9	1335.5	1712.4	2165.2	2739.1
-15°	0.0	49.5	181.1	372.7	586.3	793.3	1021.5	1311.8	1677.7	2118.0	2670.5
-17.5°	0.0	48.8	177.7	365.3	575.2	780.1	1003.5	1283.9	1637.0	2062.6	2589.9
-20°	0.0	48.1	173.7	356.7	562.6	765.0	982.7	1251.8	1590.4	1999.0	2497.5

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Scaled Data Report



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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	47.3	169.3	347.0	548.4	747.9	959.3	1215.7	1537.8	1927.5	2393.7
-25°	0.0	46.4	164.4	336.3	532.5	728.9	933.4	1175.7	1479.5	1848.2	2278.6
-27.5°	0.0	45.4	159.0	324.5	515.2	708.1	904.9	1131.8	1415.7	1766.5	2180.2
-30°	0.0	44.3	153.2	311.6	496.3	685.5	874.0	1084.2	1355.5	1688.0	2074.8
-32.5°	0.0	43.2	146.9	297.8	475.9	661.2	840.7	1042.2	1296.5	1603.6	1961.5
-35°	0.0	41.9	140.1	283.0	454.2	635.1	808.1	1000.5	1233.6	1513.5	1840.7
-37.5°	0.0	40.6	132.9	267.2	431.0	606.9	774.7	956.2	1166.7	1417.9	1725.8
-40°	0.0	39.2	125.3	250.6	406.5	576.2	739.4	909.3	1096.1	1332.3	1613.2
-42.5°	0.0	37.7	117.2	233.0	381.9	543.9	702.3	860.1	1033.9	1248.6	1495.2
-45°	0.0	36.2	108.8	214.6	357.3	510.1	663.5	811.1	974.9	1161.1	1375.6
-47.5°	0.0	34.6	100.0	195.4	331.7	474.8	623.0	763.8	913.4	1070.5	1274.2
-50°	0.0	32.9	90.9	180.2	305.0	438.0	579.2	714.6	849.6	998.6	1169.1
-52.5°	0.0	31.2	81.4	165.9	277.3	400.0	533.5	663.7	789.0	924.2	1063.2
-55°	0.0	29.4	71.6	151.2	248.8	363.7	486.3	610.9	729.0	847.6	978.1
-57.5°	0.0	27.5	61.5	136.0	219.3	326.9	437.7	554.3	667.3	776.1	890.7
-60°	0.0	25.6	51.2	120.5	189.5	289.1	388.4	496.1	603.3	704.9	804.5
-62.5°	0.0	23.6	47.2	104.5	168.2	250.3	341.9	436.6	535.4	632.2	723.9
-65°	0.0	21.6	43.2	88.1	146.5	210.8	294.5	377.4	466.1	555.1	641.6
-67.5°	0.0	19.6	39.1	71.4	124.3	176.7	246.2	321.2	395.5	475.9	555.1
-70°	0.0	17.5	35.0	54.5	101.7	148.5	197.0	263.9	330.1	395.5	466.1
-72.5°	0.0	15.4	30.8	46.1	78.7	119.9	160.7	205.9	263.9	321.2	377.4
-75°	0.0	13.2	26.5	39.6	55.4	90.9	126.0	160.7	197.0	246.2	294.5
-77.5°	0.0	11.1	22.1	33.2	44.1	61.5	90.9	119.9	148.5	176.7	210.8
-80°	0.0	8.9	17.8	26.6	35.4	44.1	55.4	78.7	101.7	124.3	146.5
-82.5°	0.0	6.7	13.3	20.0	26.6	33.2	39.6	46.1	54.5	71.4	88.1
-85°	0.0	4.5	8.9	13.3	17.8	22.1	26.5	30.8	35.0	39.1	43.2
-87.5°	0.0	2.2	4.5	6.7	8.9	11.1	13.2	15.4	17.5	19.6	21.6
-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°	23.6	25.6	27.5	29.4	31.2	32.9	34.6	36.2	37.7	39.2	40.6
85°	47.2	51.2	61.5	71.6	81.4	90.9	100.0	108.8	117.2	125.3	132.9
82.5°	104.5	120.5	136.0	151.2	165.9	180.2	195.4	214.6	233.0	250.6	267.2
80°	168.2	189.5	219.3	248.8	277.3	305.0	331.7	357.3	381.9	406.5	431.0
77.5°	250.3	289.1	326.9	363.7	400.0	438.0	474.8	510.1	543.9	576.2	606.9
75°	341.9	388.4	437.7	486.3	533.5	579.2	623.0	663.5	702.3	739.4	774.7
72.5°	436.6	496.1	554.3	610.9	663.7	714.6	763.8	811.1	860.1	909.3	956.2
70°	535.4	603.3	667.3	729.0	789.0	849.6	913.4	974.9	1033.9	1096.1	1166.7
67.5°	632.2	704.9	776.1	847.6	924.2	998.6	1070.5	1161.1	1248.6	1332.3	1417.9
65°	723.9	804.5	890.7	978.1	1063.2	1169.1	1274.2	1375.6	1495.2	1613.2	1725.8
62.5°	814.1	912.3	1010.7	1117.6	1240.6	1360.1	1498.7	1640.1	1776.2	1929.5	2078.7
60°	912.3	1021.5	1146.3	1283.9	1425.4	1590.4	1750.3	1927.5	2106.1	2278.6	2490.4
57.5°	1010.7	1146.3	1298.3	1462.2	1645.8	1831.1	2039.1	2240.5	2482.1	2723.4	2963.5
55°	1117.6	1283.9	1462.2	1664.3	1875.8	2106.7	2348.0	2629.2	2901.5	3204.8	3495.2
52.5°	1240.6	1425.4	1645.8	1875.8	2129.3	2406.9	2718.3	3040.4	3379.5	3708.8	4031.8
50°	1360.1	1590.4	1831.1	2106.7	2406.9	2748.2	3110.3	3485.3	3855.6	4216.8	4555.0
47.5°	1498.7	1750.3	2039.1	2348.0	2718.3	3110.3	3520.8	3929.5	4328.9	4699.4	5054.3
45°	1640.1	1927.5	2240.5	2629.2	3040.4	3485.3	3929.5	4366.4	4772.1	5155.0	5490.0
42.5°	1776.2	2106.1	2482.1	2901.5	3379.5	3855.6	4328.9	4772.1	5187.8	5556.5	5893.0
40°	1929.5	2278.6	2723.4	3204.8	3708.8	4216.8	4699.4	5155.0	5556.5	5923.6	6264.3
37.5°	2078.7	2490.4	2963.5	3495.2	4031.8	4555.0	5054.3	5490.0	5893.0	6264.3	6591.1
35°	2220.4	2691.7	3218.5	3776.7	4340.1	4872.1	5358.0	5801.5	6201.9	6562.3	6896.4
32.5°	2377.9	2882.1	3459.9	4047.2	4621.0	5162.7	5644.4	6078.2	6476.3	6842.3	7174.1
30°	2540.4	3087.3	3689.0	4301.9	4884.8	5414.7	5895.5	6334.8	6729.8	7091.2	7416.4
27.5°	2691.7	3280.9	3907.6	4532.4	5125.8	5650.9	6125.2	6557.8	6955.0	7318.9	7634.1
25°	2831.6	3459.9	4110.0	4743.4	5328.7	5855.0	6333.6	6765.9	7160.8	7510.1	7816.4
22.5°	2969.5	3623.9	4295.4	4937.0	5515.1	6037.4	6511.7	6945.1	7340.3	7686.3	7980.3
20°	3103.7	3776.7	4459.0	5108.7	5684.2	6203.2	6673.9	7106.4	7491.0	7826.0	8118.7
17.5°	3223.1	3912.8	4602.1	5247.4	5823.3	6344.7	6817.4	7251.3	7626.7	7952.1	8238.2
15°	3327.4	4031.8	4727.3	5368.8	5942.9	6462.3	6934.9	7364.1	7737.0	8059.7	8343.8
12.5°	3416.2	4133.3	4834.1	5472.4	6045.1	6562.9	7035.7	7458.9	7825.5	8144.1	8422.0
10°	3489.3	4216.8	4922.0	5557.8	6129.4	6646.0	7119.0	7537.4	7898.9	8214.1	8487.2
7.5°	3546.4	4282.0	4990.8	5624.7	6195.5	6711.2	7184.3	7599.1	7956.6	8269.3	8538.6
5°	3587.4	4328.9	5040.2	5672.7	6242.9	6758.0	7231.3	7643.4	7998.2	8309.1	8575.7
2.5°	3612.0	4357.0	5069.9	5701.6	6271.5	6786.2	7259.6	7670.2	8023.3	8333.2	8598.2
0°	3620.2	4366.4	5079.8	5711.2	6281.0	6795.6	7269.1	7679.1	8031.7	8341.2	8605.7
-2.5°	3612.0	4357.0	5069.9	5701.6	6271.5	6786.2	7259.6	7670.2	8023.3	8333.2	8598.2
-5°	3587.4	4328.9	5040.2	5672.7	6242.9	6758.0	7231.3	7643.4	7998.2	8309.1	8575.7
-7.5°	3546.4	4282.0	4990.8	5624.7	6195.5	6711.2	7184.3	7599.1	7956.6	8269.3	8538.6
-10°	3489.3	4216.8	4922.0	5557.8	6129.4	6646.0	7119.0	7537.4	7898.9	8214.1	8487.2
-12.5°	3416.2	4133.3	4834.1	5472.4	6045.1	6562.9	7035.7	7458.9	7825.5	8144.1	8422.0
-15°	3327.4	4031.8	4727.3	5368.8	5942.9	6462.3	6934.9	7364.1	7737.0	8059.7	8343.8
-17.5°	3223.1	3912.8	4602.1	5247.4	5823.3	6344.7	6817.4	7251.3	7626.7	7952.1	8238.2
-20°	3103.7	3776.7	4459.0	5108.7	5684.2	6203.2	6673.9	7106.4	7491.0	7826.0	8118.7



REPORT NUMBER: P645480 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-730-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°	2969.5	3623.9	4295.4	4937.0	5515.1	6037.4	6511.7	6945.1	7340.3	7686.3	7980.3
-25°	2831.6	3459.9	4110.0	4743.4	5328.7	5855.0	6333.6	6765.9	7160.8	7510.1	7816.4
-27.5°	2691.7	3280.9	3907.6	4532.4	5125.8	5650.9	6125.2	6557.8	6955.0	7318.9	7634.1
-30°	2540.4	3087.3	3689.0	4301.9	4884.8	5414.7	5895.5	6334.8	6729.8	7091.2	7416.4
-32.5°	2377.9	2882.1	3459.9	4047.2	4621.0	5162.7	5644.4	6078.2	6476.3	6842.3	7174.1
-35°	2220.4	2691.7	3218.5	3776.7	4340.1	4872.1	5358.0	5801.5	6201.9	6562.3	6896.4
-37.5°	2078.7	2490.4	2963.5	3495.2	4031.8	4555.0	5054.3	5490.0	5893.0	6264.3	6591.1
-40°	1929.5	2278.6	2723.4	3204.8	3708.8	4216.8	4699.4	5155.0	5556.5	5923.6	6264.3
-42.5°	1776.2	2106.1	2482.1	2901.5	3379.5	3855.6	4328.9	4772.1	5187.8	5556.5	5893.0
-45°	1640.1	1927.5	2240.5	2629.2	3040.4	3485.3	3929.5	4366.4	4772.1	5155.0	5490.0
-47.5°	1498.7	1750.3	2039.1	2348.0	2718.3	3110.3	3520.8	3929.5	4328.9	4699.4	5054.3
-50°	1360.1	1590.4	1831.1	2106.7	2406.9	2748.2	3110.3	3485.3	3855.6	4216.8	4555.0
-52.5°	1240.6	1425.4	1645.8	1875.8	2129.3	2406.9	2718.3	3040.4	3379.5	3708.8	4031.8
-55°	1117.6	1283.9	1462.2	1664.3	1875.8	2106.7	2348.0	2629.2	2901.5	3204.8	3495.2
-57.5°	1010.7	1146.3	1298.3	1462.2	1645.8	1831.1	2039.1	2240.5	2482.1	2723.4	2963.5
-60°	912.3	1021.5	1146.3	1283.9	1425.4	1590.4	1750.3	1927.5	2106.1	2278.6	2490.4
-62.5°	814.1	912.3	1010.7	1117.6	1240.6	1360.1	1498.7	1640.1	1776.2	1929.5	2078.7
-65°	723.9	804.5	890.7	978.1	1063.2	1169.1	1274.2	1375.6	1495.2	1613.2	1725.8
-67.5°	632.2	704.9	776.1	847.6	924.2	998.6	1070.5	1161.1	1248.6	1332.3	1417.9
-70°	535.4	603.3	667.3	729.0	789.0	849.6	913.4	974.9	1033.9	1096.1	1166.7
-72.5°	436.6	496.1	554.3	610.9	663.7	714.6	763.8	811.1	860.1	909.3	956.2
-75°	341.9	388.4	437.7	486.3	533.5	579.2	623.0	663.5	702.3	739.4	774.7
-77.5°	250.3	289.1	326.9	363.7	400.0	438.0	474.8	510.1	543.9	576.2	606.9
-80°	168.2	189.5	219.3	248.8	277.3	305.0	331.7	357.3	381.9	406.5	431.0
-82.5°	104.5	120.5	136.0	151.2	165.9	180.2	195.4	214.6	233.0	250.6	267.2
-85°	47.2	51.2	61.5	71.6	81.4	90.9	100.0	108.8	117.2	125.3	132.9
-87.5°	23.6	25.6	27.5	29.4	31.2	32.9	34.6	36.2	37.7	39.2	40.6
-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: P645480 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-730-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°	41.9	43.2	44.3	45.4	46.4	47.3	48.1	48.8	49.5	50.0	50.4
85°	140.1	146.9	153.2	159.0	164.4	169.3	173.7	177.7	181.1	184.0	186.4
82.5°	283.0	297.8	311.6	324.5	336.3	347.0	356.7	365.3	372.7	379.1	384.3
80°	454.2	475.9	496.3	515.2	532.5	548.4	562.6	575.2	586.3	595.6	603.3
77.5°	635.1	661.2	685.5	708.1	728.9	747.9	765.0	780.1	793.3	804.5	813.7
75°	808.1	840.7	874.0	904.9	933.4	959.3	982.7	1003.5	1021.5	1036.9	1049.5
72.5°	1000.5	1042.2	1084.2	1131.8	1175.7	1215.7	1251.8	1283.9	1311.8	1335.5	1355.0
70°	1233.6	1296.5	1355.5	1415.7	1479.5	1537.8	1590.4	1637.0	1677.7	1712.4	1740.8
67.5°	1513.5	1603.6	1688.0	1766.5	1848.2	1927.5	1999.0	2062.6	2118.0	2165.2	2204.0
65°	1840.7	1961.5	2074.8	2180.2	2278.6	2393.7	2497.5	2589.9	2670.5	2739.1	2795.6
62.5°	2220.4	2377.9	2540.4	2691.7	2831.6	2969.5	3103.7	3223.1	3327.4	3416.2	3489.3
60°	2691.7	2882.1	3087.3	3280.9	3459.9	3623.9	3776.7	3912.8	4031.8	4133.3	4216.8
57.5°	3218.5	3459.9	3689.0	3907.6	4110.0	4295.4	4459.0	4602.1	4727.3	4834.1	4922.0
55°	3776.7	4047.2	4301.9	4532.4	4743.4	4937.0	5108.7	5247.4	5368.8	5472.4	5557.8
52.5°	4340.1	4621.0	4884.8	5125.8	5328.7	5515.1	5684.2	5823.3	5942.9	6045.1	6129.4
50°	4872.1	5162.7	5414.7	5650.9	5855.0	6037.4	6203.2	6344.7	6462.3	6562.9	6646.0
47.5°	5358.0	5644.4	5895.5	6125.2	6333.6	6511.7	6673.9	6817.4	6934.9	7035.7	7119.0
45°	5801.5	6078.2	6334.8	6557.8	6765.9	6945.1	7106.4	7251.3	7364.1	7458.9	7537.4
42.5°	6201.9	6476.3	6729.8	6955.0	7160.8	7340.3	7491.0	7626.7	7737.0	7825.5	7898.9
40°	6562.3	6842.3	7091.2	7318.9	7510.1	7686.3	7826.0	7952.1	8059.7	8144.1	8214.1
37.5°	6896.4	7174.1	7416.4	7634.1	7816.4	7980.3	8118.7	8238.2	8343.8	8422.0	8487.2
35°	7201.9	7465.7	7705.4	7905.0	8085.8	8240.0	8376.3	8486.6	8584.7	8659.3	8718.7
32.5°	7465.7	7727.3	7949.9	8146.3	8322.8	8466.7	8597.5	8698.5	8787.5	8859.3	8914.5
30°	7705.4	7949.9	8166.7	8361.3	8522.1	8662.4	8780.0	8878.7	8960.9	9029.4	9077.9
27.5°	7905.0	8146.3	8361.3	8540.8	8694.7	8829.7	8937.4	9032.4	9104.2	9167.1	9208.9
25°	8085.8	8322.8	8522.1	8694.7	8844.0	8967.3	9069.8	9155.9	9219.5	9273.5	9304.5
22.5°	8240.0	8466.7	8662.4	8829.7	8967.3	9082.5	9179.1	9251.9	9304.0	9336.7	9355.1
20°	8376.3	8597.5	8780.0	8937.4	9069.8	9179.1	9263.0	9316.8	9353.1	9362.1	9367.3
17.5°	8486.6	8698.5	8878.7	9032.4	9155.9	9251.9	9316.8	9354.8	9365.7	9363.7	9358.3
15°	8584.7	8787.5	8960.9	9104.2	9219.5	9304.0	9353.1	9365.7	9362.5	9351.5	9334.6
12.5°	8659.3	8859.3	9029.4	9167.1	9273.5	9336.7	9362.1	9363.7	9351.5	9330.5	9306.5
10°	8718.7	8914.5	9077.9	9208.9	9304.5	9355.1	9367.3	9358.3	9334.6	9306.5	9280.0
7.5°	8765.6	8958.3	9116.5	9242.2	9324.8	9360.7	9363.4	9346.4	9318.0	9286.1	9257.4
5°	8799.6	8990.0	9144.6	9266.5	9339.7	9364.9	9360.4	9337.1	9304.1	9270.8	9244.5
2.5°	8820.2	9009.2	9161.7	9281.3	9348.8	9367.4	9358.6	9331.3	9295.4	9261.0	9236.0
0°	8827.1	9015.7	9167.4	9286.3	9351.9	9368.3	9358.0	9329.3	9292.4	9257.6	9233.0
-2.5°	8820.2	9009.2	9161.7	9281.3	9348.8	9367.4	9358.6	9331.3	9295.4	9261.0	9236.0
-5°	8799.6	8990.0	9144.6	9266.5	9339.7	9364.9	9360.4	9337.1	9304.1	9270.8	9244.5
-7.5°	8765.6	8958.3	9116.5	9242.2	9324.8	9360.7	9363.4	9346.4	9318.0	9286.1	9257.4
-10°	8718.7	8914.5	9077.9	9208.9	9304.5	9355.1	9367.3	9358.3	9334.6	9306.5	9280.0
-12.5°	8659.3	8859.3	9029.4	9167.1	9273.5	9336.7	9362.1	9363.7	9351.5	9330.5	9306.5
-15°	8584.7	8787.5	8960.9	9104.2	9219.5	9304.0	9353.1	9365.7	9362.5	9351.5	9334.6
-17.5°	8486.6	8698.5	8878.7	9032.4	9155.9	9251.9	9316.8	9354.8	9365.7	9363.7	9358.3
-20°	8376.3	8597.5	8780.0	8937.4	9069.8	9179.1	9263.0	9316.8	9353.1	9362.1	9367.3



REPORT NUMBER: P645480 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-730-U-LAM-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8240.0	8466.7	8662.4	8829.7	8967.3	9082.5	9179.1	9251.9	9304.0	9336.7	9355.1
-25°	8085.8	8322.8	8522.1	8694.7	8844.0	8967.3	9069.8	9155.9	9219.5	9273.5	9304.5
-27.5°	7905.0	8146.3	8361.3	8540.8	8694.7	8829.7	8937.4	9032.4	9104.2	9167.1	9208.9
-30°	7705.4	7949.9	8166.7	8361.3	8522.1	8662.4	8780.0	8878.7	8960.9	9029.4	9077.9
-32.5°	7465.7	7727.3	7949.9	8146.3	8322.8	8466.7	8597.5	8698.5	8787.5	8859.3	8914.5
-35°	7201.9	7465.7	7705.4	7905.0	8085.8	8240.0	8376.3	8486.6	8584.7	8659.3	8718.7
-37.5°	6896.4	7174.1	7416.4	7634.1	7816.4	7980.3	8118.7	8238.2	8343.8	8422.0	8487.2
-40°	6562.3	6842.3	7091.2	7318.9	7510.1	7686.3	7826.0	7952.1	8059.7	8144.1	8214.1
-42.5°	6201.9	6476.3	6729.8	6955.0	7160.8	7340.3	7491.0	7626.7	7737.0	7825.5	7898.9
-45°	5801.5	6078.2	6334.8	6557.8	6765.9	6945.1	7106.4	7251.3	7364.1	7458.9	7537.4
-47.5°	5358.0	5644.4	5895.5	6125.2	6333.6	6511.7	6673.9	6817.4	6934.9	7035.7	7119.0
-50°	4872.1	5162.7	5414.7	5650.9	5855.0	6037.4	6203.2	6344.7	6462.3	6562.9	6646.0
-52.5°	4340.1	4621.0	4884.8	5125.8	5328.7	5515.1	5684.2	5823.3	5942.9	6045.1	6129.4
-55°	3776.7	4047.2	4301.9	4532.4	4743.4	4937.0	5108.7	5247.4	5368.8	5472.4	5557.8
-57.5°	3218.5	3459.9	3689.0	3907.6	4110.0	4295.4	4459.0	4602.1	4727.3	4834.1	4922.0
-60°	2691.7	2882.1	3087.3	3280.9	3459.9	3623.9	3776.7	3912.8	4031.8	4133.3	4216.8
-62.5°	2220.4	2377.9	2540.4	2691.7	2831.6	2969.5	3103.7	3223.1	3327.4	3416.2	3489.3
-65°	1840.7	1961.5	2074.8	2180.2	2278.6	2393.7	2497.5	2589.9	2670.5	2739.1	2795.6
-67.5°	1513.5	1603.6	1688.0	1766.5	1848.2	1927.5	1999.0	2062.6	2118.0	2165.2	2204.0
-70°	1233.6	1296.5	1355.5	1415.7	1479.5	1537.8	1590.4	1637.0	1677.7	1712.4	1740.8
-72.5°	1000.5	1042.2	1084.2	1131.8	1175.7	1215.7	1251.8	1283.9	1311.8	1335.5	1355.0
-75°	808.1	840.7	874.0	904.9	933.4	959.3	982.7	1003.5	1021.5	1036.9	1049.5
-77.5°	635.1	661.2	685.5	708.1	728.9	747.9	765.0	780.1	793.3	804.5	813.7
-80°	454.2	475.9	496.3	515.2	532.5	548.4	562.6	575.2	586.3	595.6	603.3
-82.5°	283.0	297.8	311.6	324.5	336.3	347.0	356.7	365.3	372.7	379.1	384.3
-85°	140.1	146.9	153.2	159.0	164.4	169.3	173.7	177.7	181.1	184.0	186.4
-87.5°	41.9	43.2	44.3	45.4	46.4	47.3	48.1	48.8	49.5	50.0	50.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P645480 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-730-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°	50.8	51.0	51.2	51.2	51.2	51.0	50.8	50.4	50.0	49.5	48.8
85°	188.2	189.5	190.3	190.6	190.3	189.5	188.2	186.4	184.0	181.1	177.7
82.5°	388.4	391.3	393.0	393.6	393.0	391.3	388.4	384.3	379.1	372.7	365.3
80°	609.3	613.6	616.1	617.0	616.1	613.6	609.3	603.3	595.6	586.3	575.2
77.5°	820.9	826.1	829.2	830.2	829.2	826.1	820.9	813.7	804.5	793.3	780.1
75°	1059.4	1066.4	1070.7	1072.1	1070.7	1066.4	1059.4	1049.5	1036.9	1021.5	1003.5
72.5°	1370.3	1381.2	1387.7	1389.9	1387.7	1381.2	1370.3	1355.0	1335.5	1311.8	1283.9
70°	1763.0	1778.9	1788.5	1791.7	1788.5	1778.9	1763.0	1740.8	1712.4	1677.7	1637.0
67.5°	2234.3	2256.0	2269.0	2273.4	2269.0	2256.0	2234.3	2204.0	2165.2	2118.0	2062.6
65°	2839.7	2871.3	2890.3	2896.6	2890.3	2871.3	2839.7	2795.6	2739.1	2670.5	2589.9
62.5°	3546.4	3587.4	3612.0	3620.2	3612.0	3587.4	3546.4	3489.3	3416.2	3327.4	3223.1
60°	4282.0	4328.9	4357.0	4366.4	4357.0	4328.9	4282.0	4216.8	4133.3	4031.8	3912.8
57.5°	4990.8	5040.2	5069.9	5079.8	5069.9	5040.2	4990.8	4922.0	4834.1	4727.3	4602.1
55°	5624.7	5672.7	5701.6	5711.2	5701.6	5672.7	5624.7	5557.8	5472.4	5368.8	5247.4
52.5°	6195.5	6242.9	6271.5	6281.0	6271.5	6242.9	6195.5	6129.4	6045.1	5942.9	5823.3
50°	6711.2	6758.0	6786.2	6795.6	6786.2	6758.0	6711.2	6646.0	6562.9	6462.3	6344.7
47.5°	7184.3	7231.3	7259.6	7269.1	7259.6	7231.3	7184.3	7119.0	7035.7	6934.9	6817.4
45°	7599.1	7643.4	7670.2	7679.1	7670.2	7643.4	7599.1	7537.4	7458.9	7364.1	7251.3
42.5°	7956.6	7998.2	8023.3	8031.7	8023.3	7998.2	7956.6	7898.9	7825.5	7737.0	7626.7
40°	8269.3	8309.1	8333.2	8341.2	8333.2	8309.1	8269.3	8214.1	8144.1	8059.7	7952.1
37.5°	8538.6	8575.7	8598.2	8605.7	8598.2	8575.7	8538.6	8487.2	8422.0	8343.8	8238.2
35°	8765.6	8799.6	8820.2	8827.1	8820.2	8799.6	8765.6	8718.7	8659.3	8584.7	8486.6
32.5°	8958.3	8990.0	9009.2	9015.7	9009.2	8990.0	8958.3	8914.5	8859.3	8787.5	8698.5
30°	9116.5	9144.6	9161.7	9167.4	9161.7	9144.6	9116.5	9077.9	9029.4	8960.9	8878.7
27.5°	9242.2	9266.5	9281.3	9286.3	9281.3	9266.5	9242.2	9208.9	9167.1	9104.2	9032.4
25°	9324.8	9339.7	9348.8	9351.9	9348.8	9339.7	9324.8	9304.5	9273.5	9219.5	9155.9
22.5°	9360.7	9364.9	9367.4	9368.3	9367.4	9364.9	9360.7	9355.1	9336.7	9304.0	9251.9
20°	9363.4	9360.4	9358.6	9358.0	9358.6	9360.4	9363.4	9367.3	9362.1	9353.1	9316.8
17.5°	9346.4	9337.1	9331.3	9329.3	9331.3	9337.1	9346.4	9358.3	9363.7	9365.7	9354.8
15°	9318.0	9304.1	9295.4	9292.4	9295.4	9304.1	9318.0	9334.6	9351.5	9362.5	9365.7
12.5°	9286.1	9270.8	9261.0	9257.6	9261.0	9270.8	9286.1	9306.5	9330.5	9351.5	9363.7
10°	9257.4	9244.5	9236.0	9233.0	9236.0	9244.5	9257.4	9280.0	9306.5	9334.6	9358.3
7.5°	9238.8	9227.3	9220.9	9218.6	9220.9	9227.3	9238.8	9257.4	9286.1	9318.0	9346.4
5°	9227.3	9215.8	9206.1	9202.2	9206.1	9215.8	9227.3	9244.5	9270.8	9304.1	9337.1
2.5°	9220.9	9206.1	9191.4	9183.8	9191.4	9206.1	9220.9	9236.0	9261.0	9295.4	9331.3
0°	9218.6	9202.2	9183.8	9185.8	9183.8	9202.2	9218.6	9233.0	9257.6	9292.4	9329.3
-2.5°	9220.9	9206.1	9191.4	9183.8	9191.4	9206.1	9220.9	9236.0	9261.0	9295.4	9331.3
-5°	9227.3	9215.8	9206.1	9202.2	9206.1	9215.8	9227.3	9244.5	9270.8	9304.1	9337.1
-7.5°	9238.8	9227.3	9220.9	9218.6	9220.9	9227.3	9238.8	9257.4	9286.1	9318.0	9346.4
-10°	9257.4	9244.5	9236.0	9233.0	9236.0	9244.5	9257.4	9280.0	9306.5	9334.6	9358.3
-12.5°	9286.1	9270.8	9261.0	9257.6	9261.0	9270.8	9286.1	9306.5	9330.5	9351.5	9363.7
-15°	9318.0	9304.1	9295.4	9292.4	9295.4	9304.1	9318.0	9334.6	9351.5	9362.5	9365.7
-17.5°	9346.4	9337.1	9331.3	9329.3	9331.3	9337.1	9346.4	9358.3	9363.7	9365.7	9354.8
-20°	9363.4	9360.4	9358.6	9358.0	9358.6	9360.4	9363.4	9367.3	9362.1	9353.1	9316.8

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report



REPORT NUMBER: P645480 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4D-730-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°	9360.7	9364.9	9367.4	9368.3	9367.4	9364.9	9360.7	9355.1	9336.7	9304.0	9251.9
-25°	9324.8	9339.7	9348.8	9351.9	9348.8	9339.7	9324.8	9304.5	9273.5	9219.5	9155.9
-27.5°	9242.2	9266.5	9281.3	9286.3	9281.3	9266.5	9242.2	9208.9	9167.1	9104.2	9032.4
-30°	9116.5	9144.6	9161.7	9167.4	9161.7	9144.6	9116.5	9077.9	9029.4	8960.9	8878.7
-32.5°	8958.3	8990.0	9009.2	9015.7	9009.2	8990.0	8958.3	8914.5	8859.3	8787.5	8698.5
-35°	8765.6	8799.6	8820.2	8827.1	8820.2	8799.6	8765.6	8718.7	8659.3	8584.7	8486.6
-37.5°	8538.6	8575.7	8598.2	8605.7	8598.2	8575.7	8538.6	8487.2	8422.0	8343.8	8238.2
-40°	8269.3	8309.1	8333.2	8341.2	8333.2	8309.1	8269.3	8214.1	8144.1	8059.7	7952.1
-42.5°	7956.6	7998.2	8023.3	8031.7	8023.3	7998.2	7956.6	7898.9	7825.5	7737.0	7626.7
-45°	7599.1	7643.4	7670.2	7679.1	7670.2	7643.4	7599.1	7537.4	7458.9	7364.1	7251.3
-47.5°	7184.3	7231.3	7259.6	7269.1	7259.6	7231.3	7184.3	7119.0	7035.7	6934.9	6817.4
-50°	6711.2	6758.0	6786.2	6795.6	6786.2	6758.0	6711.2	6646.0	6562.9	6462.3	6344.7
-52.5°	6195.5	6242.9	6271.5	6281.0	6271.5	6242.9	6195.5	6129.4	6045.1	5942.9	5823.3
-55°	5624.7	5672.7	5701.6	5711.2	5701.6	5672.7	5624.7	5557.8	5472.4	5368.8	5247.4
-57.5°	4990.8	5040.2	5069.9	5079.8	5069.9	5040.2	4990.8	4922.0	4834.1	4727.3	4602.1
-60°	4282.0	4328.9	4357.0	4366.4	4357.0	4328.9	4282.0	4216.8	4133.3	4031.8	3912.8
-62.5°	3546.4	3587.4	3612.0	3620.2	3612.0	3587.4	3546.4	3489.3	3416.2	3327.4	3223.1
-65°	2839.7	2871.3	2890.3	2896.6	2890.3	2871.3	2839.7	2795.6	2739.1	2670.5	2589.9
-67.5°	2234.3	2256.0	2269.0	2273.4	2269.0	2256.0	2234.3	2204.0	2165.2	2118.0	2062.6
-70°	1763.0	1778.9	1788.5	1791.7	1788.5	1778.9	1763.0	1740.8	1712.4	1677.7	1637.0
-72.5°	1370.3	1381.2	1387.7	1389.9	1387.7	1381.2	1370.3	1355.0	1335.5	1311.8	1283.9
-75°	1059.4	1066.4	1070.7	1072.1	1070.7	1066.4	1059.4	1049.5	1036.9	1021.5	1003.5
-77.5°	820.9	826.1	829.2	830.2	829.2	826.1	820.9	813.7	804.5	793.3	780.1
-80°	609.3	613.6	616.1	617.0	616.1	613.6	609.3	603.3	595.6	586.3	575.2
-82.5°	388.4	391.3	393.0	393.6	393.0	391.3	388.4	384.3	379.1	372.7	365.3
-85°	188.2	189.5	190.3	190.6	190.3	189.5	188.2	186.4	184.0	181.1	177.7
-87.5°	50.8	51.0	51.2	51.2	51.2	51.0	50.8	50.4	50.0	49.5	48.8
-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: P645480 (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°	48.1	47.3	46.4	45.4	44.3	43.2	41.9	40.6	39.2	37.7	36.2
85°	173.7	169.3	164.4	159.0	153.2	146.9	140.1	132.9	125.3	117.2	108.8
82.5°	356.7	347.0	336.3	324.5	311.6	297.8	283.0	267.2	250.6	233.0	214.6
80°	562.6	548.4	532.5	515.2	496.3	475.9	454.2	431.0	406.5	381.9	357.3
77.5°	765.0	747.9	728.9	708.1	685.5	661.2	635.1	606.9	576.2	543.9	510.1
75°	982.7	959.3	933.4	904.9	874.0	840.7	808.1	774.7	739.4	702.3	663.5
72.5°	1251.8	1215.7	1175.7	1131.8	1084.2	1042.2	1000.5	956.2	909.3	860.1	811.1
70°	1590.4	1537.8	1479.5	1415.7	1355.5	1296.5	1233.6	1166.7	1096.1	1033.9	974.9
67.5°	1999.0	1927.5	1848.2	1766.5	1688.0	1603.6	1513.5	1417.9	1332.3	1248.6	1161.1
65°	2497.5	2393.7	2278.6	2180.2	2074.8	1961.5	1840.7	1725.8	1613.2	1495.2	1375.6
62.5°	3103.7	2969.5	2831.6	2691.7	2540.4	2377.9	2220.4	2078.7	1929.5	1776.2	1640.1
60°	3776.7	3623.9	3459.9	3280.9	3087.3	2882.1	2691.7	2490.4	2278.6	2106.1	1927.5
57.5°	4459.0	4295.4	4110.0	3907.6	3689.0	3459.9	3218.5	2963.5	2723.4	2482.1	2240.5
55°	5108.7	4937.0	4743.4	4532.4	4301.9	4047.2	3776.7	3495.2	3204.8	2901.5	2629.2
52.5°	5684.2	5515.1	5328.7	5125.8	4884.8	4621.0	4340.1	4031.8	3708.8	3379.5	3040.4
50°	6203.2	6037.4	5855.0	5650.9	5414.7	5162.7	4872.1	4555.0	4216.8	3855.6	3485.3
47.5°	6673.9	6511.7	6333.6	6125.2	5895.5	5644.4	5358.0	5054.3	4699.4	4328.9	3929.5
45°	7106.4	6945.1	6765.9	6557.8	6334.8	6078.2	5801.5	5490.0	5155.0	4772.1	4366.4
42.5°	7491.0	7340.3	7160.8	6955.0	6729.8	6476.3	6201.9	5893.0	5556.5	5187.8	4772.1
40°	7826.0	7686.3	7510.1	7318.9	7091.2	6842.3	6562.3	6264.3	5923.6	5556.5	5155.0
37.5°	8118.7	7980.3	7816.4	7634.1	7416.4	7174.1	6896.4	6591.1	6264.3	5893.0	5490.0
35°	8376.3	8240.0	8085.8	7905.0	7705.4	7465.7	7201.9	6896.4	6562.3	6201.9	5801.5
32.5°	8597.5	8466.7	8322.8	8146.3	7949.9	7727.3	7465.7	7174.1	6842.3	6476.3	6078.2
30°	8780.0	8662.4	8522.1	8361.3	8166.7	7949.9	7705.4	7416.4	7091.2	6729.8	6334.8
27.5°	8937.4	8829.7	8694.7	8540.8	8361.3	8146.3	7905.0	7634.1	7318.9	6955.0	6557.8
25°	9069.8	8967.3	8844.0	8694.7	8522.1	8322.8	8085.8	7816.4	7510.1	7160.8	6765.9
22.5°	9179.1	9082.5	8967.3	8829.7	8662.4	8466.7	8240.0	7980.3	7686.3	7340.3	6945.1
20°	9263.0	9179.1	9069.8	8937.4	8780.0	8597.5	8376.3	8118.7	7826.0	7491.0	7106.4
17.5°	9316.8	9251.9	9155.9	9032.4	8878.7	8698.5	8486.6	8238.2	7952.1	7626.7	7251.3
15°	9353.1	9304.0	9219.5	9104.2	8960.9	8787.5	8584.7	8343.8	8059.7	7737.0	7364.1
12.5°	9362.1	9336.7	9273.5	9167.1	9029.4	8859.3	8659.3	8422.0	8144.1	7825.5	7458.9
10°	9367.3	9355.1	9304.5	9208.9	9077.9	8914.5	8718.7	8487.2	8214.1	7898.9	7537.4
7.5°	9363.4	9360.7	9324.8	9242.2	9116.5	8958.3	8765.6	8538.6	8269.3	7956.6	7599.1
5°	9360.4	9364.9	9339.7	9266.5	9144.6	8990.0	8799.6	8575.7	8309.1	7998.2	7643.4
2.5°	9358.6	9367.4	9348.8	9281.3	9161.7	9009.2	8820.2	8598.2	8333.2	8023.3	7670.2
0°	9358.0	9368.3	9351.9	9286.3	9167.4	9015.7	8827.1	8605.7	8341.2	8031.7	7679.1
-2.5°	9358.6	9367.4	9348.8	9281.3	9161.7	9009.2	8820.2	8598.2	8333.2	8023.3	7670.2
-5°	9360.4	9364.9	9339.7	9266.5	9144.6	8990.0	8799.6	8575.7	8309.1	7998.2	7643.4
-7.5°	9363.4	9360.7	9324.8	9242.2	9116.5	8958.3	8765.6	8538.6	8269.3	7956.6	7599.1
-10°	9367.3	9355.1	9304.5	9208.9	9077.9	8914.5	8718.7	8487.2	8214.1	7898.9	7537.4
-12.5°	9362.1	9336.7	9273.5	9167.1	9029.4	8859.3	8659.3	8422.0	8144.1	7825.5	7458.9
-15°	9353.1	9304.0	9219.5	9104.2	8960.9	8787.5	8584.7	8343.8	8059.7	7737.0	7364.1
-17.5°	9316.8	9251.9	9155.9	9032.4	8878.7	8698.5	8486.6	8238.2	7952.1	7626.7	7251.3
-20°	9263.0	9179.1	9069.8	8937.4	8780.0	8597.5	8376.3	8118.7	7826.0	7491.0	7106.4

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REPORT NUMBER: P645480 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4D-730-U-LAM-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	9179.1	9082.5	8967.3	8829.7	8662.4	8466.7	8240.0	7980.3	7686.3	7340.3	6945.1
-25°	9069.8	8967.3	8844.0	8694.7	8522.1	8322.8	8085.8	7816.4	7510.1	7160.8	6765.9
-27.5°	8937.4	8829.7	8694.7	8540.8	8361.3	8146.3	7905.0	7634.1	7318.9	6955.0	6557.8
-30°	8780.0	8662.4	8522.1	8361.3	8166.7	7949.9	7705.4	7416.4	7091.2	6729.8	6334.8
-32.5°	8597.5	8466.7	8322.8	8146.3	7949.9	7727.3	7465.7	7174.1	6842.3	6476.3	6078.2
-35°	8376.3	8240.0	8085.8	7905.0	7705.4	7465.7	7201.9	6896.4	6562.3	6201.9	5801.5
-37.5°	8118.7	7980.3	7816.4	7634.1	7416.4	7174.1	6896.4	6591.1	6264.3	5893.0	5490.0
-40°	7826.0	7686.3	7510.1	7318.9	7091.2	6842.3	6562.3	6264.3	5923.6	5556.5	5155.0
-42.5°	7491.0	7340.3	7160.8	6955.0	6729.8	6476.3	6201.9	5893.0	5556.5	5187.8	4772.1
-45°	7106.4	6945.1	6765.9	6557.8	6334.8	6078.2	5801.5	5490.0	5155.0	4772.1	4366.4
-47.5°	6673.9	6511.7	6333.6	6125.2	5895.5	5644.4	5358.0	5054.3	4699.4	4328.9	3929.5
-50°	6203.2	6037.4	5855.0	5650.9	5414.7	5162.7	4872.1	4555.0	4216.8	3855.6	3485.3
-52.5°	5684.2	5515.1	5328.7	5125.8	4884.8	4621.0	4340.1	4031.8	3708.8	3379.5	3040.4
-55°	5108.7	4937.0	4743.4	4532.4	4301.9	4047.2	3776.7	3495.2	3204.8	2901.5	2629.2
-57.5°	4459.0	4295.4	4110.0	3907.6	3689.0	3459.9	3218.5	2963.5	2723.4	2482.1	2240.5
-60°	3776.7	3623.9	3459.9	3280.9	3087.3	2882.1	2691.7	2490.4	2278.6	2106.1	1927.5
-62.5°	3103.7	2969.5	2831.6	2691.7	2540.4	2377.9	2220.4	2078.7	1929.5	1776.2	1640.1
-65°	2497.5	2393.7	2278.6	2180.2	2074.8	1961.5	1840.7	1725.8	1613.2	1495.2	1375.6
-67.5°	1999.0	1927.5	1848.2	1766.5	1688.0	1603.6	1513.5	1417.9	1332.3	1248.6	1161.1
-70°	1590.4	1537.8	1479.5	1415.7	1355.5	1296.5	1233.6	1166.7	1096.1	1033.9	974.9
-72.5°	1251.8	1215.7	1175.7	1131.8	1084.2	1042.2	1000.5	956.2	909.3	860.1	811.1
-75°	982.7	959.3	933.4	904.9	874.0	840.7	808.1	774.7	739.4	702.3	663.5
-77.5°	765.0	747.9	728.9	708.1	685.5	661.2	635.1	606.9	576.2	543.9	510.1
-80°	562.6	548.4	532.5	515.2	496.3	475.9	454.2	431.0	406.5	381.9	357.3
-82.5°	356.7	347.0	336.3	324.5	311.6	297.8	283.0	267.2	250.6	233.0	214.6
-85°	173.7	169.3	164.4	159.0	153.2	146.9	140.1	132.9	125.3	117.2	108.8
-87.5°	48.1	47.3	46.4	45.4	44.3	43.2	41.9	40.6	39.2	37.7	36.2
-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: P645480 (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°	34.6	32.9	31.2	29.4	27.5	25.6	23.6	21.6	19.6	17.5	15.4
85°	100.0	90.9	81.4	71.6	61.5	51.2	47.2	43.2	39.1	35.0	30.8
82.5°	195.4	180.2	165.9	151.2	136.0	120.5	104.5	88.1	71.4	54.5	46.1
80°	331.7	305.0	277.3	248.8	219.3	189.5	168.2	146.5	124.3	101.7	78.7
77.5°	474.8	438.0	400.0	363.7	326.9	289.1	250.3	210.8	176.7	148.5	119.9
75°	623.0	579.2	533.5	486.3	437.7	388.4	341.9	294.5	246.2	197.0	160.7
72.5°	763.8	714.6	663.7	610.9	554.3	496.1	436.6	377.4	321.2	263.9	205.9
70°	913.4	849.6	789.0	729.0	667.3	603.3	535.4	466.1	395.5	330.1	263.9
67.5°	1070.5	998.6	924.2	847.6	776.1	704.9	632.2	555.1	475.9	395.5	321.2
65°	1274.2	1169.1	1063.2	978.1	890.7	804.5	723.9	641.6	555.1	466.1	377.4
62.5°	1498.7	1360.1	1240.6	1117.6	1010.7	912.3	814.1	723.9	632.2	535.4	436.6
60°	1750.3	1590.4	1425.4	1283.9	1146.3	1021.5	912.3	804.5	704.9	603.3	496.1
57.5°	2039.1	1831.1	1645.8	1462.2	1298.3	1146.3	1010.7	890.7	776.1	667.3	554.3
55°	2348.0	2106.7	1875.8	1664.3	1462.2	1283.9	1117.6	978.1	847.6	729.0	610.9
52.5°	2718.3	2406.9	2129.3	1875.8	1645.8	1425.4	1240.6	1063.2	924.2	789.0	663.7
50°	3110.3	2748.2	2406.9	2106.7	1831.1	1590.4	1360.1	1169.1	998.6	849.6	714.6
47.5°	3520.8	3110.3	2718.3	2348.0	2039.1	1750.3	1498.7	1274.2	1070.5	913.4	763.8
45°	3929.5	3485.3	3040.4	2629.2	2240.5	1927.5	1640.1	1375.6	1161.1	974.9	811.1
42.5°	4328.9	3855.6	3379.5	2901.5	2482.1	2106.1	1776.2	1495.2	1248.6	1033.9	860.1
40°	4699.4	4216.8	3708.8	3204.8	2723.4	2278.6	1929.5	1613.2	1332.3	1096.1	909.3
37.5°	5054.3	4555.0	4031.8	3495.2	2963.5	2490.4	2078.7	1725.8	1417.9	1166.7	956.2
35°	5358.0	4872.1	4340.1	3776.7	3218.5	2691.7	2220.4	1840.7	1513.5	1233.6	1000.5
32.5°	5644.4	5162.7	4621.0	4047.2	3459.9	2882.1	2377.9	1961.5	1603.6	1296.5	1042.2
30°	5895.5	5414.7	4884.8	4301.9	3689.0	3087.3	2540.4	2074.8	1688.0	1355.5	1084.2
27.5°	6125.2	5650.9	5125.8	4532.4	3907.6	3280.9	2691.7	2180.2	1766.5	1415.7	1131.8
25°	6333.6	5855.0	5328.7	4743.4	4110.0	3459.9	2831.6	2278.6	1848.2	1479.5	1175.7
22.5°	6511.7	6037.4	5515.1	4937.0	4295.4	3623.9	2969.5	2393.7	1927.5	1537.8	1215.7
20°	6673.9	6203.2	5684.2	5108.7	4459.0	3776.7	3103.7	2497.5	1999.0	1590.4	1251.8
17.5°	6817.4	6344.7	5823.3	5247.4	4602.1	3912.8	3223.1	2589.9	2062.6	1637.0	1283.9
15°	6934.9	6462.3	5942.9	5368.8	4727.3	4031.8	3327.4	2670.5	2118.0	1677.7	1311.8
12.5°	7035.7	6562.9	6045.1	5472.4	4834.1	4133.3	3416.2	2739.1	2165.2	1712.4	1335.5
10°	7119.0	6646.0	6129.4	5557.8	4922.0	4216.8	3489.3	2795.6	2204.0	1740.8	1355.0
7.5°	7184.3	6711.2	6195.5	5624.7	4990.8	4282.0	3546.4	2839.7	2234.3	1763.0	1370.3
5°	7231.3	6758.0	6242.9	5672.7	5040.2	4328.9	3587.4	2871.3	2256.0	1778.9	1381.2
2.5°	7259.6	6786.2	6271.5	5701.6	5069.9	4357.0	3612.0	2890.3	2269.0	1788.5	1387.7
0°	7269.1	6795.6	6281.0	5711.2	5079.8	4366.4	3620.2	2896.6	2273.4	1791.7	1389.9
-2.5°	7259.6	6786.2	6271.5	5701.6	5069.9	4357.0	3612.0	2890.3	2269.0	1788.5	1387.7
-5°	7231.3	6758.0	6242.9	5672.7	5040.2	4328.9	3587.4	2871.3	2256.0	1778.9	1381.2
-7.5°	7184.3	6711.2	6195.5	5624.7	4990.8	4282.0	3546.4	2839.7	2234.3	1763.0	1370.3
-10°	7119.0	6646.0	6129.4	5557.8	4922.0	4216.8	3489.3	2795.6	2204.0	1740.8	1355.0
-12.5°	7035.7	6562.9	6045.1	5472.4	4834.1	4133.3	3416.2	2739.1	2165.2	1712.4	1335.5
-15°	6934.9	6462.3	5942.9	5368.8	4727.3	4031.8	3327.4	2670.5	2118.0	1677.7	1311.8
-17.5°	6817.4	6344.7	5823.3	5247.4	4602.1	3912.8	3223.1	2589.9	2062.6	1637.0	1283.9
-20°	6673.9	6203.2	5684.2	5108.7	4459.0	3776.7	3103.7	2497.5	1999.0	1590.4	1251.8



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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°	6511.7	6037.4	5515.1	4937.0	4295.4	3623.9	2969.5	2393.7	1927.5	1537.8	1215.7
-25°	6333.6	5855.0	5328.7	4743.4	4110.0	3459.9	2831.6	2278.6	1848.2	1479.5	1175.7
-27.5°	6125.2	5650.9	5125.8	4532.4	3907.6	3280.9	2691.7	2180.2	1766.5	1415.7	1131.8
-30°	5895.5	5414.7	4884.8	4301.9	3689.0	3087.3	2540.4	2074.8	1688.0	1355.5	1084.2
-32.5°	5644.4	5162.7	4621.0	4047.2	3459.9	2882.1	2377.9	1961.5	1603.6	1296.5	1042.2
-35°	5358.0	4872.1	4340.1	3776.7	3218.5	2691.7	2220.4	1840.7	1513.5	1233.6	1000.5
-37.5°	5054.3	4555.0	4031.8	3495.2	2963.5	2490.4	2078.7	1725.8	1417.9	1166.7	956.2
-40°	4699.4	4216.8	3708.8	3204.8	2723.4	2278.6	1929.5	1613.2	1332.3	1096.1	909.3
-42.5°	4328.9	3855.6	3379.5	2901.5	2482.1	2106.1	1776.2	1495.2	1248.6	1033.9	860.1
-45°	3929.5	3485.3	3040.4	2629.2	2240.5	1927.5	1640.1	1375.6	1161.1	974.9	811.1
-47.5°	3520.8	3110.3	2718.3	2348.0	2039.1	1750.3	1498.7	1274.2	1070.5	913.4	763.8
-50°	3110.3	2748.2	2406.9	2106.7	1831.1	1590.4	1360.1	1169.1	998.6	849.6	714.6
-52.5°	2718.3	2406.9	2129.3	1875.8	1645.8	1425.4	1240.6	1063.2	924.2	789.0	663.7
-55°	2348.0	2106.7	1875.8	1664.3	1462.2	1283.9	1117.6	978.1	847.6	729.0	610.9
-57.5°	2039.1	1831.1	1645.8	1462.2	1298.3	1146.3	1010.7	890.7	776.1	667.3	554.3
-60°	1750.3	1590.4	1425.4	1283.9	1146.3	1021.5	912.3	804.5	704.9	603.3	496.1
-62.5°	1498.7	1360.1	1240.6	1117.6	1010.7	912.3	814.1	723.9	632.2	535.4	436.6
-65°	1274.2	1169.1	1063.2	978.1	890.7	804.5	723.9	641.6	555.1	466.1	377.4
-67.5°	1070.5	998.6	924.2	847.6	776.1	704.9	632.2	555.1	475.9	395.5	321.2
-70°	913.4	849.6	789.0	729.0	667.3	603.3	535.4	466.1	395.5	330.1	263.9
-72.5°	763.8	714.6	663.7	610.9	554.3	496.1	436.6	377.4	321.2	263.9	205.9
-75°	623.0	579.2	533.5	486.3	437.7	388.4	341.9	294.5	246.2	197.0	160.7
-77.5°	474.8	438.0	400.0	363.7	326.9	289.1	250.3	210.8	176.7	148.5	119.9
-80°	331.7	305.0	277.3	248.8	219.3	189.5	168.2	146.5	124.3	101.7	78.7
-82.5°	195.4	180.2	165.9	151.2	136.0	120.5	104.5	88.1	71.4	54.5	46.1
-85°	100.0	90.9	81.4	71.6	61.5	51.2	47.2	43.2	39.1	35.0	30.8
-87.5°	34.6	32.9	31.2	29.4	27.5	25.6	23.6	21.6	19.6	17.5	15.4
-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):

	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°	13.2	11.1	8.9	6.7	4.5	2.2	0.0
85°	26.5	22.1	17.8	13.3	8.9	4.5	0.0
82.5°	39.6	33.2	26.6	20.0	13.3	6.7	0.0
80°	55.4	44.1	35.4	26.6	17.8	8.9	0.0
77.5°	90.9	61.5	44.1	33.2	22.1	11.1	0.0
75°	126.0	90.9	55.4	39.6	26.5	13.2	0.0
72.5°	160.7	119.9	78.7	46.1	30.8	15.4	0.0
70°	197.0	148.5	101.7	54.5	35.0	17.5	0.0
67.5°	246.2	176.7	124.3	71.4	39.1	19.6	0.0
65°	294.5	210.8	146.5	88.1	43.2	21.6	0.0
62.5°	341.9	250.3	168.2	104.5	47.2	23.6	0.0
60°	388.4	289.1	189.5	120.5	51.2	25.6	0.0
57.5°	437.7	326.9	219.3	136.0	61.5	27.5	0.0
55°	486.3	363.7	248.8	151.2	71.6	29.4	0.0
52.5°	533.5	400.0	277.3	165.9	81.4	31.2	0.0
50°	579.2	438.0	305.0	180.2	90.9	32.9	0.0
47.5°	623.0	474.8	331.7	195.4	100.0	34.6	0.0
45°	663.5	510.1	357.3	214.6	108.8	36.2	0.0
42.5°	702.3	543.9	381.9	233.0	117.2	37.7	0.0
40°	739.4	576.2	406.5	250.6	125.3	39.2	0.0
37.5°	774.7	606.9	431.0	267.2	132.9	40.6	0.0
35°	808.1	635.1	454.2	283.0	140.1	41.9	0.0
32.5°	840.7	661.2	475.9	297.8	146.9	43.2	0.0
30°	874.0	685.5	496.3	311.6	153.2	44.3	0.0
27.5°	904.9	708.1	515.2	324.5	159.0	45.4	0.0
25°	933.4	728.9	532.5	336.3	164.4	46.4	0.0
22.5°	959.3	747.9	548.4	347.0	169.3	47.3	0.0
20°	982.7	765.0	562.6	356.7	173.7	48.1	0.0
17.5°	1003.5	780.1	575.2	365.3	177.7	48.8	0.0
15°	1021.5	793.3	586.3	372.7	181.1	49.5	0.0
12.5°	1036.9	804.5	595.6	379.1	184.0	50.0	0.0
10°	1049.5	813.7	603.3	384.3	186.4	50.4	0.0
7.5°	1059.4	820.9	609.3	388.4	188.2	50.8	0.0
5°	1066.4	826.1	613.6	391.3	189.5	51.0	0.0
2.5°	1070.7	829.2	616.1	393.0	190.3	51.2	0.0
0°	1072.1	830.2	617.0	393.6	190.6	51.2	0.0
-2.5°	1070.7	829.2	616.1	393.0	190.3	51.2	0.0
-5°	1066.4	826.1	613.6	391.3	189.5	51.0	0.0
-7.5°	1059.4	820.9	609.3	388.4	188.2	50.8	0.0
-10°	1049.5	813.7	603.3	384.3	186.4	50.4	0.0
-12.5°	1036.9	804.5	595.6	379.1	184.0	50.0	0.0
-15°	1021.5	793.3	586.3	372.7	181.1	49.5	0.0
-17.5°	1003.5	780.1	575.2	365.3	177.7	48.8	0.0
-20°	982.7	765.0	562.6	356.7	173.7	48.1	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	959.3	747.9	548.4	347.0	169.3	47.3	0.0
-25°	933.4	728.9	532.5	336.3	164.4	46.4	0.0
-27.5°	904.9	708.1	515.2	324.5	159.0	45.4	0.0
-30°	874.0	685.5	496.3	311.6	153.2	44.3	0.0
-32.5°	840.7	661.2	475.9	297.8	146.9	43.2	0.0
-35°	808.1	635.1	454.2	283.0	140.1	41.9	0.0
-37.5°	774.7	606.9	431.0	267.2	132.9	40.6	0.0
-40°	739.4	576.2	406.5	250.6	125.3	39.2	0.0
-42.5°	702.3	543.9	381.9	233.0	117.2	37.7	0.0
-45°	663.5	510.1	357.3	214.6	108.8	36.2	0.0
-47.5°	623.0	474.8	331.7	195.4	100.0	34.6	0.0
-50°	579.2	438.0	305.0	180.2	90.9	32.9	0.0
-52.5°	533.5	400.0	277.3	165.9	81.4	31.2	0.0
-55°	486.3	363.7	248.8	151.2	71.6	29.4	0.0
-57.5°	437.7	326.9	219.3	136.0	61.5	27.5	0.0
-60°	388.4	289.1	189.5	120.5	51.2	25.6	0.0
-62.5°	341.9	250.3	168.2	104.5	47.2	23.6	0.0
-65°	294.5	210.8	146.5	88.1	43.2	21.6	0.0
-67.5°	246.2	176.7	124.3	71.4	39.1	19.6	0.0
-70°	197.0	148.5	101.7	54.5	35.0	17.5	0.0
-72.5°	160.7	119.9	78.7	46.1	30.8	15.4	0.0
-75°	126.0	90.9	55.4	39.6	26.5	13.2	0.0
-77.5°	90.9	61.5	44.1	33.2	22.1	11.1	0.0
-80°	55.4	44.1	35.4	26.6	17.8	8.9	0.0
-82.5°	39.6	33.2	26.6	20.0	13.3	6.7	0.0
-85°	26.5	22.1	17.8	13.3	8.9	4.5	0.0
-87.5°	13.2	11.1	8.9	6.7	4.5	2.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)