

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



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA5E-722-U-VWR-XX**

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-08
Report Number: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/7/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA5E-722-U-VWR-XX
Description: GALLEON FLOOD, FIVE LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N112
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

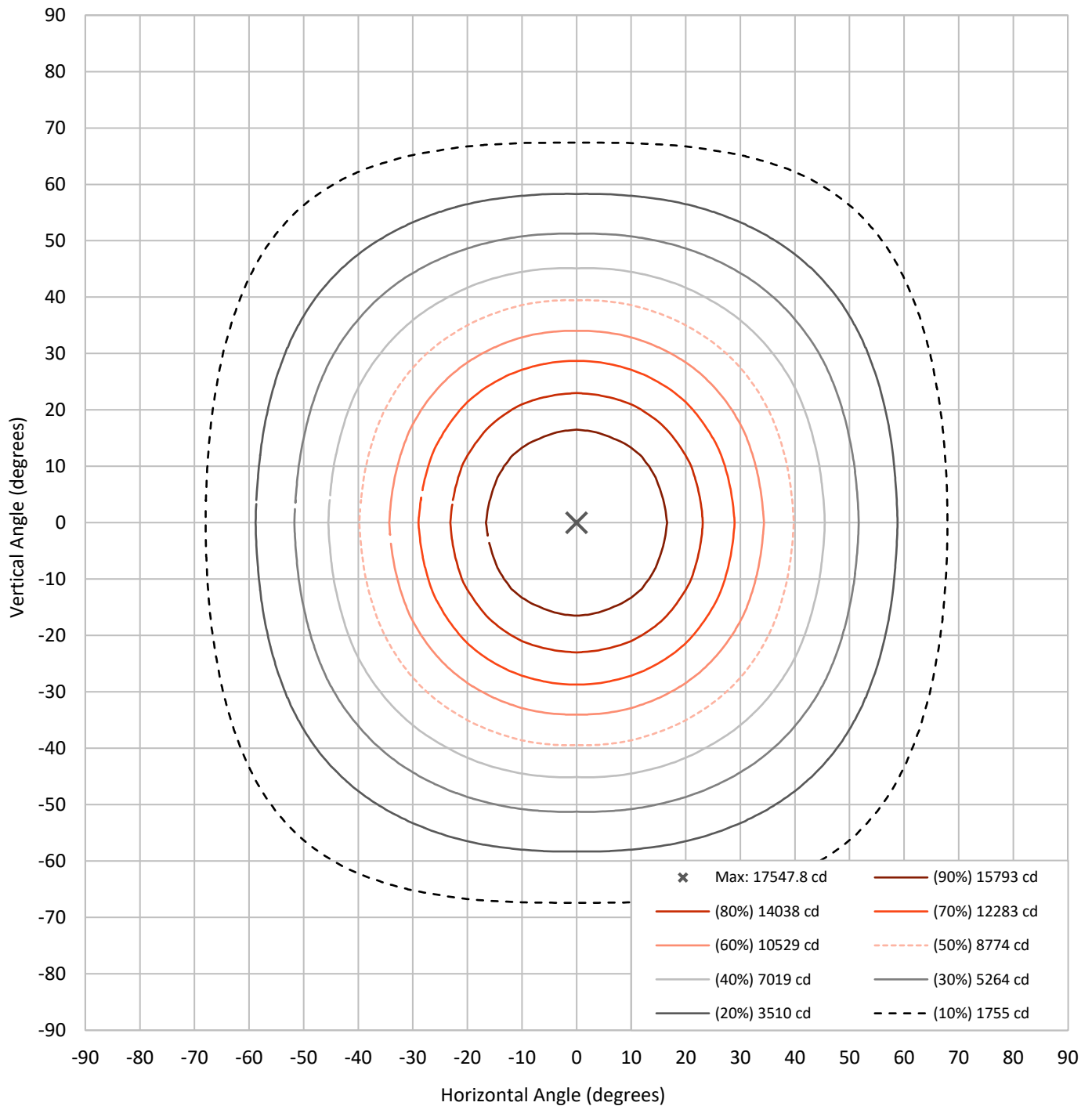
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31716.1 lumens	Max Intensity:	17547.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	101.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	79.6°H x 78.9°V	Field Angle (10%):	135.9°H x 134.8°V
Beam Lumens:	18601.7 lumens	Field Lumens:	30235.9 lumens
Beam Efficiency:	58.7%	Field Efficiency:	95.3%
Input Watts (W):	313.7		
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





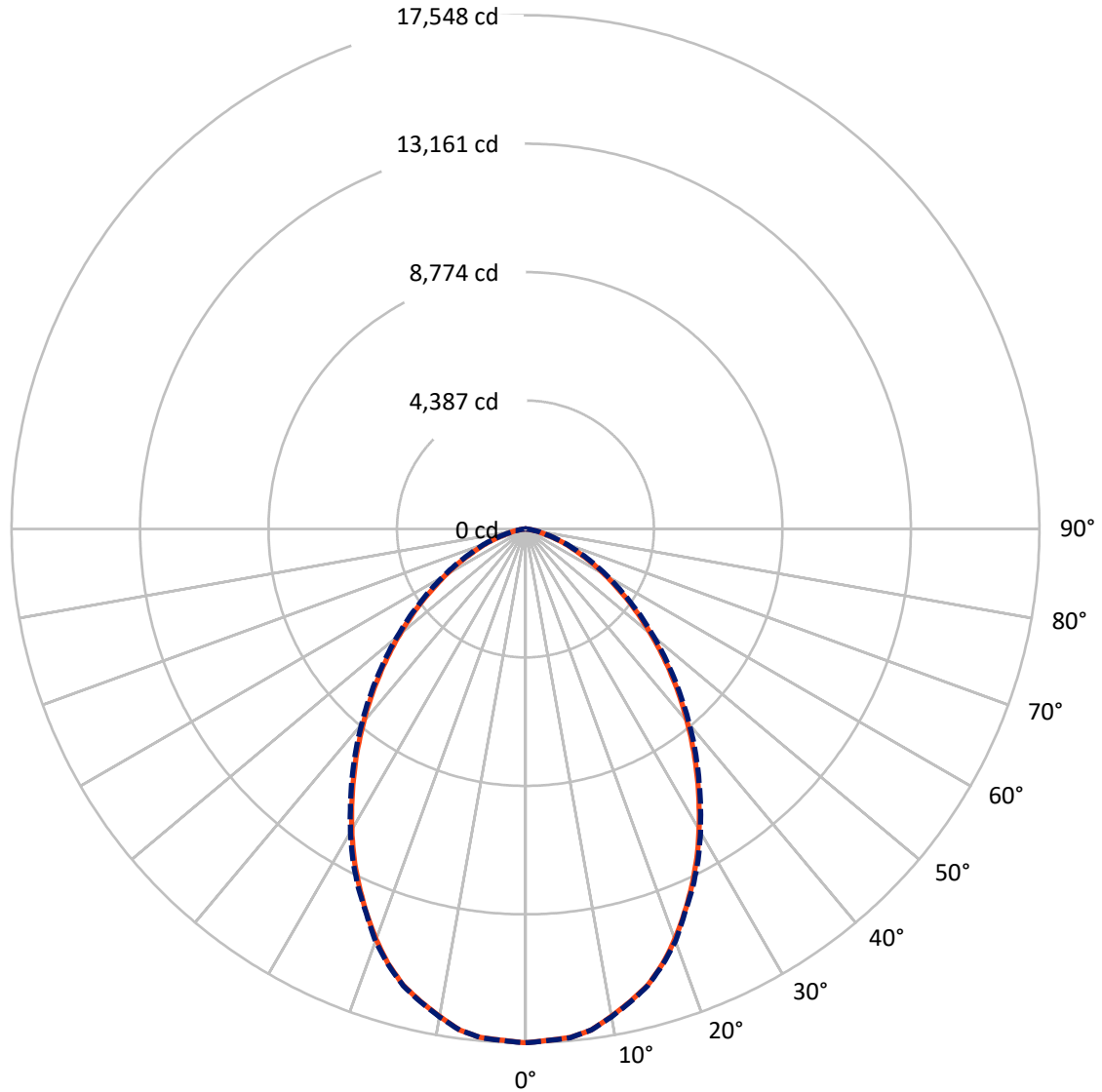
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Lumen Table

90																			
80	1.1	13.0	35.4	60.1	56.6	60.1	35.4	13.0	1.1										
70																			
60	5.9	8.1	16.4	28.0	40.9	52.9	61.8	66.2	66.2	61.8	52.9	40.9	28.0	16.4	8.1				5.9
50																			
40	10.3	12.2	26.7	47.6	72.0	97.9	119.2	130.2	130.2	119.2	97.9	72.0	47.6	26.7	12.2				10.3
30																			
20	13.3	16.4	38.6	71.2	112.8	156.4	192.9	212.8	212.8	192.9	156.4	112.8	71.2	38.6	16.4				13.3
10																			
0	14.5	20.7	51.1	98.0	157.9	221.4	275.6	306.5	306.5	275.6	221.4	157.9	98.0	51.1	20.7				14.5
-10																			
-20	13.3	24.8	62.8	123.2	201.1	285.4	359.0	401.2	401.2	359.0	285.4	201.1	123.2	62.8	24.8				13.3
-30																			
-40	10.3	28.0	72.0	142.1	234.7	337.3	427.8	479.3	479.3	427.8	337.3	234.7	142.1	72.0	28.0				10.3
-50																			
-60	5.9	29.7	77.0	152.8	253.5	366.1	465.0	519.1	519.1	465.0	366.1	253.5	152.8	77.0	29.7				5.9
-70																			
-80	1.1	29.7	77.0	152.8	253.5	366.1	465.0	519.1	519.1	465.0	366.1	253.5	152.8	77.0	29.7				1.1
-90																			

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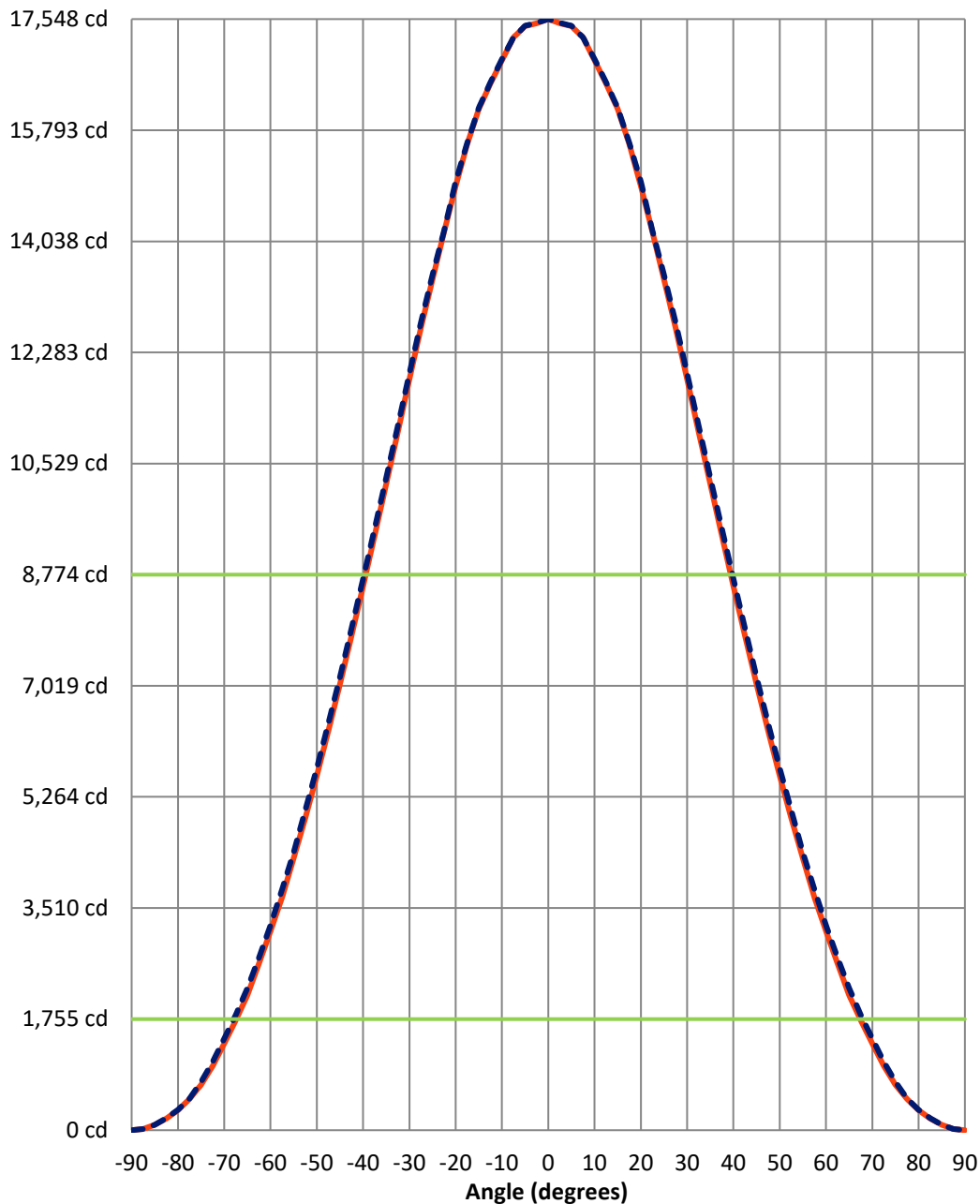
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 79.6°
 V Angle: 78.9°
 Lumens: 18601.7
 Efficiency: 58.7%

Field:
 H Angle: 135.9°
 V Angle: 134.8°
 Lumens: 30235.9
 Efficiency: 95.3%

Spill:
 Lumens: 1480.2
 Efficiency: 4.7%

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

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FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	1.0	2.3	3.4	4.6	5.7	6.8	7.9	9.0	10.1	11.1
85°	0.0	2.0	4.6	6.9	9.1	11.4	13.6	15.8	18.0	20.1	22.2
82.5°	0.0	3.0	6.8	10.3	13.7	17.0	20.4	23.7	29.6	46.6	62.9
80°	0.0	4.0	9.1	13.7	18.2	22.7	30.6	54.6	77.5	99.6	120.8
77.5°	0.0	5.0	11.3	17.0	22.7	35.5	66.8	96.9	125.2	152.4	186.1
75°	0.0	5.9	13.5	20.4	29.5	61.5	102.0	139.0	174.4	223.1	274.8
72.5°	0.0	6.9	15.6	23.7	47.1	86.7	136.2	184.1	239.7	299.0	361.8
70°	0.0	7.8	17.7	28.3	64.0	111.0	170.3	238.3	303.8	373.6	455.2
67.5°	0.0	8.7	19.7	38.8	80.4	134.3	211.3	291.3	366.4	454.6	548.1
65°	0.0	9.6	21.7	48.9	95.9	160.4	250.5	342.8	434.1	533.1	635.1
62.5°	0.0	10.4	23.6	58.6	110.7	188.9	287.7	396.6	499.4	608.3	712.9
60°	0.0	11.3	25.4	67.7	124.6	216.0	322.8	450.0	562.4	678.6	789.6
57.5°	0.0	12.1	30.5	76.2	143.1	241.3	359.7	499.8	624.4	747.7	862.3
55°	0.0	12.8	35.5	84.2	160.7	265.0	394.7	542.7	685.4	814.4	932.1
52.5°	0.0	13.6	40.3	91.6	177.1	287.4	427.1	587.4	745.0	875.8	1000.1
50°	0.0	14.3	44.9	98.4	192.1	311.2	456.8	629.9	801.6	935.4	1078.1
47.5°	0.0	15.0	49.3	105.4	205.9	332.9	484.6	669.3	852.9	993.1	1154.5
45°	0.0	15.6	53.5	114.5	218.3	352.5	515.5	705.7	892.8	1058.3	1227.5
42.5°	0.0	16.2	57.4	122.8	229.2	369.9	543.9	739.2	931.0	1120.8	1313.6
40°	0.0	16.7	61.2	131.2	240.2	385.1	569.6	770.8	970.6	1179.2	1397.4
37.5°	0.0	17.2	64.6	139.6	251.2	398.1	592.6	800.9	1015.1	1234.8	1476.0
35°	0.0	17.7	67.9	147.4	260.5	413.2	612.9	829.2	1058.5	1298.7	1555.3
32.5°	0.0	18.1	70.8	154.6	268.4	428.2	631.7	855.6	1100.6	1360.1	1639.2
30°	0.0	18.5	73.6	161.1	274.7	441.0	651.2	882.1	1141.3	1418.9	1717.6
27.5°	0.0	18.8	76.0	167.1	284.0	451.7	668.8	912.9	1183.1	1474.6	1790.4
25°	0.0	19.1	78.2	172.4	292.9	460.1	684.2	941.5	1226.7	1531.4	1857.7
22.5°	0.0	19.4	80.1	177.1	300.6	468.6	697.4	967.6	1266.9	1585.1	1929.4
20°	0.0	19.6	81.8	181.2	307.3	480.2	708.4	991.2	1303.3	1633.1	1993.6
17.5°	0.0	19.7	83.2	184.6	312.9	489.7	722.0	1011.9	1335.8	1675.2	2050.3
15°	0.0	19.9	84.3	187.4	317.5	497.2	736.2	1031.7	1364.1	1711.3	2099.2
12.5°	0.0	19.9	85.2	189.5	320.9	502.5	747.8	1050.3	1389.6	1741.3	2140.1
10°	0.0	20.0	85.8	191.0	323.3	505.8	756.6	1064.6	1411.7	1769.5	2174.6
7.5°	0.0	20.0	86.1	191.8	324.6	507.1	762.5	1074.6	1428.6	1792.1	2204.4
5°	0.0	19.9	86.1	192.1	324.9	506.6	765.6	1080.3	1440.3	1808.6	2225.7
2.5°	0.0	19.8	86.0	191.7	324.1	504.1	765.8	1081.7	1446.5	1818.5	2238.5
0°	0.0	19.7	85.5	190.7	322.3	499.9	762.9	1078.7	1447.0	1821.9	2242.8
-2.5°	0.0	19.8	86.0	191.7	324.1	504.1	765.8	1081.7	1446.5	1818.5	2238.5
-5°	0.0	19.9	86.1	192.1	324.9	506.6	765.6	1080.3	1440.3	1808.6	2225.7
-7.5°	0.0	20.0	86.1	191.8	324.6	507.1	762.5	1074.6	1428.6	1792.1	2204.4
-10°	0.0	20.0	85.8	191.0	323.3	505.8	756.6	1064.6	1411.7	1769.5	2174.6
-12.5°	0.0	19.9	85.2	189.5	320.9	502.5	747.8	1050.3	1389.6	1741.3	2140.1
-15°	0.0	19.9	84.3	187.4	317.5	497.2	736.2	1031.7	1364.1	1711.3	2099.2
-17.5°	0.0	19.7	83.2	184.6	312.9	489.7	722.0	1011.9	1335.8	1675.2	2050.3
-20°	0.0	19.6	81.8	181.2	307.3	480.2	708.4	991.2	1303.3	1633.1	1993.6

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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	19.4	80.1	177.1	300.6	468.6	697.4	967.6	1266.9	1585.1	1929.4
-25°	0.0	19.1	78.2	172.4	292.9	460.1	684.2	941.5	1226.7	1531.4	1857.7
-27.5°	0.0	18.8	76.0	167.1	284.0	451.7	668.8	912.9	1183.1	1474.6	1790.4
-30°	0.0	18.5	73.6	161.1	274.7	441.0	651.2	882.1	1141.3	1418.9	1717.6
-32.5°	0.0	18.1	70.8	154.6	268.4	428.2	631.7	855.6	1100.6	1360.1	1639.2
-35°	0.0	17.7	67.9	147.4	260.5	413.2	612.9	829.2	1058.5	1298.7	1555.3
-37.5°	0.0	17.2	64.6	139.6	251.2	398.1	592.6	800.9	1015.1	1234.8	1476.0
-40°	0.0	16.7	61.2	131.2	240.2	385.1	569.6	770.8	970.6	1179.2	1397.4
-42.5°	0.0	16.2	57.4	122.8	229.2	369.9	543.9	739.2	931.0	1120.8	1313.6
-45°	0.0	15.6	53.5	114.5	218.3	352.5	515.5	705.7	892.8	1058.3	1227.5
-47.5°	0.0	15.0	49.3	105.4	205.9	332.9	484.6	669.3	852.9	993.1	1154.5
-50°	0.0	14.3	44.9	98.4	192.1	311.2	456.8	629.9	801.6	935.4	1078.1
-52.5°	0.0	13.6	40.3	91.6	177.1	287.4	427.1	587.4	745.0	875.8	1000.1
-55°	0.0	12.8	35.5	84.2	160.7	265.0	394.7	542.7	685.4	814.4	932.1
-57.5°	0.0	12.1	30.5	76.2	143.1	241.3	359.7	499.8	624.4	747.7	862.3
-60°	0.0	11.3	25.4	67.7	124.6	216.0	322.8	450.0	562.4	678.6	789.6
-62.5°	0.0	10.4	23.6	58.6	110.7	188.9	287.7	396.6	499.4	608.3	712.9
-65°	0.0	9.6	21.7	48.9	95.9	160.4	250.5	342.8	434.1	533.1	635.1
-67.5°	0.0	8.7	19.7	38.8	80.4	134.3	211.3	291.3	366.4	454.6	548.1
-70°	0.0	7.8	17.7	28.3	64.0	111.0	170.3	238.3	303.8	373.6	455.2
-72.5°	0.0	6.9	15.6	23.7	47.1	86.7	136.2	184.1	239.7	299.0	361.8
-75°	0.0	5.9	13.5	20.4	29.5	61.5	102.0	139.0	174.4	223.1	274.8
-77.5°	0.0	5.0	11.3	17.0	22.7	35.5	66.8	96.9	125.2	152.4	186.1
-80°	0.0	4.0	9.1	13.7	18.2	22.7	30.6	54.6	77.5	99.6	120.8
-82.5°	0.0	3.0	6.8	10.3	13.7	17.0	20.4	23.7	29.6	46.6	62.9
-85°	0.0	2.0	4.6	6.9	9.1	11.4	13.6	15.8	18.0	20.1	22.2
-87.5°	0.0	1.0	2.3	3.4	4.6	5.7	6.8	7.9	9.0	10.1	11.1
-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°	12.9	14.8	16.8	18.9	19.0	19.0	18.9	18.6	19.4	20.1	20.9
85°	25.7	29.5	41.0	52.1	57.4	60.7	62.2	61.9	72.0	83.7	96.4
82.5°	80.0	96.5	112.2	127.2	131.1	131.2	129.9	130.3	154.0	181.1	208.9
80°	142.5	163.4	191.1	215.7	226.4	232.0	234.5	234.1	264.0	303.9	345.8
77.5°	226.0	261.3	291.9	318.0	332.0	344.4	354.5	362.3	400.8	451.2	501.2
75°	321.3	359.9	398.3	431.8	455.2	472.5	488.7	514.7	565.1	623.9	675.1
72.5°	421.7	471.1	513.9	550.2	583.0	617.9	656.9	699.7	752.9	811.6	865.1
70°	529.0	583.2	628.1	671.8	716.6	768.8	827.4	885.0	944.3	1009.2	1071.5
67.5°	634.0	686.3	739.1	794.3	861.3	931.2	1000.5	1079.9	1161.2	1233.2	1297.6
65°	725.1	786.5	852.5	927.5	1010.3	1099.1	1191.5	1286.8	1389.9	1476.3	1555.1
62.5°	812.2	886.0	966.2	1059.6	1165.1	1270.3	1388.2	1507.5	1623.6	1725.4	1819.5
60°	892.5	981.8	1083.3	1197.7	1320.9	1460.8	1595.0	1730.7	1858.0	1973.3	2092.3
57.5°	970.6	1083.0	1204.7	1342.1	1497.9	1655.0	1812.8	1958.7	2102.8	2243.3	2377.9
55°	1053.2	1188.7	1333.5	1502.1	1677.7	1863.5	2033.4	2196.3	2355.0	2525.6	2687.7
52.5°	1144.1	1295.4	1476.7	1665.4	1868.2	2067.6	2254.3	2439.9	2631.8	2824.8	3035.9
50°	1231.8	1420.5	1619.2	1838.6	2057.7	2271.3	2485.4	2699.1	2929.1	3165.8	3405.0
47.5°	1334.3	1540.2	1774.9	2010.2	2249.6	2487.4	2725.9	2984.2	3245.4	3520.0	3784.5
45°	1438.0	1669.5	1922.4	2188.5	2447.4	2710.6	2989.5	3275.1	3581.4	3883.3	4201.6
42.5°	1536.3	1798.0	2076.8	2364.2	2652.1	2946.2	3252.9	3586.5	3921.2	4269.4	4619.2
40°	1645.2	1920.2	2227.6	2544.2	2856.6	3182.6	3533.2	3894.4	4273.1	4656.0	5035.8
37.5°	1749.9	2052.2	2375.3	2716.1	3066.7	3425.0	3805.6	4215.6	4626.4	5038.4	5457.2
35°	1848.0	2177.4	2527.3	2889.1	3260.9	3668.5	4094.0	4531.7	4976.7	5422.3	5872.8
32.5°	1948.9	2295.3	2672.6	3059.7	3469.5	3906.6	4372.6	4846.9	5320.9	5796.8	6289.8
30°	2050.0	2419.1	2813.3	3221.1	3669.3	4145.5	4646.4	5148.8	5650.2	6173.9	6699.4
27.5°	2145.5	2536.5	2951.5	3387.9	3860.9	4366.8	4898.8	5436.9	5977.6	6534.3	7094.8
25°	2233.5	2647.7	3079.8	3548.4	4049.7	4579.8	5133.9	5695.5	6288.4	6884.2	7469.5
22.5°	2319.2	2749.9	3198.7	3696.3	4220.8	4777.5	5354.5	5947.6	6567.1	7206.9	7812.7
20°	2401.7	2847.2	3314.3	3830.3	4374.0	4955.5	5555.1	6176.1	6826.1	7483.0	8134.5
17.5°	2475.0	2933.6	3422.0	3955.6	4520.3	5118.3	5735.8	6377.2	7056.1	7737.0	8427.4
15°	2538.8	3008.9	3515.2	4064.9	4649.6	5266.2	5903.4	6563.1	7259.5	7968.5	8686.2
12.5°	2592.8	3072.6	3593.7	4157.9	4759.3	5393.0	6047.6	6730.4	7445.6	8174.4	8912.9
10°	2636.6	3124.6	3657.2	4233.8	4848.9	5497.9	6166.2	6868.3	7604.9	8349.6	9103.6
7.5°	2674.0	3167.9	3707.6	4292.4	4917.9	5580.0	6258.6	6975.9	7731.8	8486.2	9256.8
5°	2701.1	3203.0	3753.9	4341.5	4978.0	5644.2	6328.6	7052.5	7824.6	8583.5	9367.9
2.5°	2717.4	3225.8	3785.4	4373.3	5025.1	5692.2	6390.8	7120.2	7892.6	8660.7	9451.4
0°	2722.9	3236.0	3801.6	4386.9	5051.2	5715.5	6425.9	7155.9	7925.4	8708.1	9504.0
-2.5°	2717.4	3225.8	3785.4	4373.3	5025.1	5692.2	6390.8	7120.2	7892.6	8660.7	9451.4
-5°	2701.1	3203.0	3753.9	4341.5	4978.0	5644.2	6328.6	7052.5	7824.6	8583.5	9367.9
-7.5°	2674.0	3167.9	3707.6	4292.4	4917.9	5580.0	6258.6	6975.9	7731.8	8486.2	9256.8
-10°	2636.6	3124.6	3657.2	4233.8	4848.9	5497.9	6166.2	6868.3	7604.9	8349.6	9103.6
-12.5°	2592.8	3072.6	3593.7	4157.9	4759.3	5393.0	6047.6	6730.4	7445.6	8174.4	8912.9
-15°	2538.8	3008.9	3515.2	4064.9	4649.6	5266.2	5903.4	6563.1	7259.5	7968.5	8686.2
-17.5°	2475.0	2933.6	3422.0	3955.6	4520.3	5118.3	5735.8	6377.2	7056.1	7737.0	8427.4
-20°	2401.7	2847.2	3314.3	3830.3	4374.0	4955.5	5555.1	6176.1	6826.1	7483.0	8134.5

Classified

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

Scaled Data Report



REPORT NUMBER: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2319.2	2749.9	3198.7	3696.3	4220.8	4777.5	5354.5	5947.6	6567.1	7206.9	7812.7
-25°	2233.5	2647.7	3079.8	3548.4	4049.7	4579.8	5133.9	5695.5	6288.4	6884.2	7469.5
-27.5°	2145.5	2536.5	2951.5	3387.9	3860.9	4366.8	4898.8	5436.9	5977.6	6534.3	7094.8
-30°	2050.0	2419.1	2813.3	3221.1	3669.3	4145.5	4646.4	5148.8	5650.2	6173.9	6699.4
-32.5°	1948.9	2295.3	2672.6	3059.7	3469.5	3906.6	4372.6	4846.9	5320.9	5796.8	6289.8
-35°	1848.0	2177.4	2527.3	2889.1	3260.9	3668.5	4094.0	4531.7	4976.7	5422.3	5872.8
-37.5°	1749.9	2052.2	2375.3	2716.1	3066.7	3425.0	3805.6	4215.6	4626.4	5038.4	5457.2
-40°	1645.2	1920.2	2227.6	2544.2	2856.6	3182.6	3533.2	3894.4	4273.1	4656.0	5035.8
-42.5°	1536.3	1798.0	2076.8	2364.2	2652.1	2946.2	3252.9	3586.5	3921.2	4269.4	4619.2
-45°	1438.0	1669.5	1922.4	2188.5	2447.4	2710.6	2989.5	3275.1	3581.4	3883.3	4201.6
-47.5°	1334.3	1540.2	1774.9	2010.2	2249.6	2487.4	2725.9	2984.2	3245.4	3520.0	3784.5
-50°	1231.8	1420.5	1619.2	1838.6	2057.7	2271.3	2485.4	2699.1	2929.1	3165.8	3405.0
-52.5°	1144.1	1295.4	1476.7	1665.4	1868.2	2067.6	2254.3	2439.9	2631.8	2824.8	3035.9
-55°	1053.2	1188.7	1333.5	1502.1	1677.7	1863.5	2033.4	2196.3	2355.0	2525.6	2687.7
-57.5°	970.6	1083.0	1204.7	1342.1	1497.9	1655.0	1812.8	1958.7	2102.8	2243.3	2377.9
-60°	892.5	981.8	1083.3	1197.7	1320.9	1460.8	1595.0	1730.7	1858.0	1973.3	2092.3
-62.5°	812.2	886.0	966.2	1059.6	1165.1	1270.3	1388.2	1507.5	1623.6	1725.4	1819.5
-65°	725.1	786.5	852.5	927.5	1010.3	1099.1	1191.5	1286.8	1389.9	1476.3	1555.1
-67.5°	634.0	686.3	739.1	794.3	861.3	931.2	1000.5	1079.9	1161.2	1233.2	1297.6
-70°	529.0	583.2	628.1	671.8	716.6	768.8	827.4	885.0	944.3	1009.2	1071.5
-72.5°	421.7	471.1	513.9	550.2	583.0	617.9	656.9	699.7	752.9	811.6	865.1
-75°	321.3	359.9	398.3	431.8	455.2	472.5	488.7	514.7	565.1	623.9	675.1
-77.5°	226.0	261.3	291.9	318.0	332.0	344.4	354.5	362.3	400.8	451.2	501.2
-80°	142.5	163.4	191.1	215.7	226.4	232.0	234.5	234.1	264.0	303.9	345.8
-82.5°	80.0	96.5	112.2	127.2	131.1	131.2	129.9	130.3	154.0	181.1	208.9
-85°	25.7	29.5	41.0	52.1	57.4	60.7	62.2	61.9	72.0	83.7	96.4
-87.5°	12.9	14.8	16.8	18.9	19.0	19.0	18.9	18.6	19.4	20.1	20.9
-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: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.5	22.2	22.8	23.3	23.8	24.3	24.7	25.1	25.4	24.1	22.7
85°	109.9	117.7	124.9	131.8	138.4	144.7	150.6	156.0	161.1	147.1	131.7
82.5°	237.3	256.3	274.4	292.4	310.2	314.8	316.2	315.6	313.1	288.6	261.4
80°	387.3	419.5	449.9	480.1	509.8	513.2	509.8	503.6	495.0	462.8	426.3
77.5°	551.0	591.6	627.2	659.7	689.3	694.9	694.1	692.6	690.2	657.4	617.6
75°	718.9	758.6	796.9	829.5	856.6	869.1	875.2	879.5	882.0	858.4	827.5
72.5°	913.6	954.9	988.7	1020.3	1047.0	1066.4	1080.3	1090.8	1097.9	1090.8	1078.1
70°	1124.8	1169.1	1206.4	1242.1	1278.3	1307.4	1329.4	1345.3	1355.4	1362.0	1366.7
67.5°	1362.6	1422.1	1474.0	1518.3	1562.2	1603.3	1637.1	1664.7	1686.0	1704.2	1718.1
65°	1630.5	1706.6	1774.0	1835.9	1892.6	1952.3	2001.2	2042.3	2075.4	2102.7	2124.7
62.5°	1912.2	2005.4	2092.0	2175.9	2258.2	2339.2	2401.4	2458.1	2508.4	2551.7	2586.2
60°	2204.9	2310.8	2427.0	2537.8	2639.8	2733.1	2825.6	2905.8	2974.4	3031.3	3077.3
57.5°	2519.6	2656.7	2792.4	2930.1	3060.3	3182.0	3296.0	3396.5	3481.5	3551.2	3609.7
55°	2859.5	3031.0	3188.5	3362.2	3530.0	3682.8	3817.3	3935.5	4037.8	4123.4	4196.1
52.5°	3233.2	3441.6	3646.1	3843.7	4034.3	4211.5	4372.6	4510.3	4632.8	4737.7	4821.5
50°	3642.1	3880.5	4117.6	4337.4	4556.4	4760.6	4945.2	5105.0	5247.5	5370.9	5468.0
47.5°	4069.8	4341.2	4605.9	4857.5	5099.8	5326.9	5526.8	5708.9	5886.6	6031.5	6146.1
45°	4513.9	4818.3	5110.3	5398.1	5664.9	5919.4	6166.0	6392.8	6575.1	6734.7	6868.8
42.5°	4963.3	5302.9	5630.0	5943.9	6237.3	6531.5	6809.0	7056.8	7264.8	7446.3	7598.7
40°	5418.6	5790.4	6150.8	6493.0	6828.4	7149.2	7449.3	7710.8	7945.3	8160.9	8340.5
37.5°	5871.7	6280.7	6679.9	7063.3	7432.6	7780.2	8104.4	8399.8	8664.5	8910.1	9109.5
35°	6326.7	6775.5	7212.5	7634.4	8037.8	8421.4	8776.3	9112.5	9424.4	9673.1	9877.2
32.5°	6780.0	7262.4	7738.1	8202.6	8644.0	9057.6	9442.2	9813.7	10134.5	10407.9	10642.5
30°	7218.6	7741.3	8259.2	8762.8	9239.8	9687.9	10113.7	10506.5	10851.6	11150.6	11413.7
27.5°	7649.0	8210.5	8766.2	9304.3	9820.0	10306.8	10771.6	11197.6	11574.1	11899.0	12176.5
25°	8055.8	8659.3	9251.7	9822.2	10373.0	10910.1	11411.9	11876.7	12278.9	12635.7	12920.7
22.5°	8444.5	9088.1	9710.6	10310.6	10899.8	11478.7	12028.2	12513.5	12939.7	13312.7	13628.2
20°	8806.6	9496.3	10133.1	10767.7	11388.3	12006.5	12596.3	13108.5	13559.5	13956.5	14304.3
17.5°	9145.1	9852.5	10523.0	11198.7	11852.8	12501.2	13100.5	13649.5	14136.0	14557.6	14921.9
15°	9431.6	10146.0	10878.3	11599.7	12289.5	12946.2	13544.9	14118.2	14658.4	15114.4	15483.7
12.5°	9663.6	10406.6	11170.5	11936.4	12665.9	13321.6	13948.5	14530.1	15097.5	15609.7	15949.2
10°	9861.3	10626.4	11415.0	12196.1	12935.3	13629.2	14310.7	14925.6	15483.2	15941.9	16321.1
7.5°	10032.3	10820.4	11621.4	12403.6	13140.4	13857.4	14559.0	15212.0	15774.9	16207.0	16545.2
5°	10158.3	10965.2	11781.6	12571.1	13318.2	14037.5	14742.2	15387.1	15936.6	16376.3	16745.1
2.5°	10248.6	11063.0	11885.3	12675.9	13439.5	14160.6	14883.0	15535.1	16067.2	16470.0	16823.2
0°	10306.4	11121.9	11950.7	12759.6	13509.4	14206.6	14982.7	15594.4	16146.9	16548.1	16916.4
-2.5°	10248.6	11063.0	11885.3	12675.9	13439.5	14160.6	14883.0	15535.1	16067.2	16470.0	16823.2
-5°	10158.3	10965.2	11781.6	12571.1	13318.2	14037.5	14742.2	15387.1	15936.6	16376.3	16745.1
-7.5°	10032.3	10820.4	11621.4	12403.6	13140.4	13857.4	14559.0	15212.0	15774.9	16207.0	16545.2
-10°	9861.3	10626.4	11415.0	12196.1	12935.3	13629.2	14310.7	14925.6	15483.2	15941.9	16321.1
-12.5°	9663.6	10406.6	11170.5	11936.4	12665.9	13321.6	13948.5	14530.1	15097.5	15609.7	15949.2
-15°	9431.6	10146.0	10878.3	11599.7	12289.5	12946.2	13544.9	14118.2	14658.4	15114.4	15483.7
-17.5°	9145.1	9852.5	10523.0	11198.7	11852.8	12501.2	13100.5	13649.5	14136.0	14557.6	14921.9
-20°	8806.6	9496.3	10133.1	10767.7	11388.3	12006.5	12596.3	13108.5	13559.5	13956.5	14304.3



REPORT NUMBER: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8444.5	9088.1	9710.6	10310.6	10899.8	11478.7	12028.2	12513.5	12939.7	13312.7	13628.2
-25°	8055.8	8659.3	9251.7	9822.2	10373.0	10910.1	11411.9	11876.7	12278.9	12635.7	12920.7
-27.5°	7649.0	8210.5	8766.2	9304.3	9820.0	10306.8	10771.6	11197.6	11574.1	11899.0	12176.5
-30°	7218.6	7741.3	8259.2	8762.8	9239.8	9687.9	10113.7	10506.5	10851.6	11150.6	11413.7
-32.5°	6780.0	7262.4	7738.1	8202.6	8644.0	9057.6	9442.2	9813.7	10134.5	10407.9	10642.5
-35°	6326.7	6775.5	7212.5	7634.4	8037.8	8421.4	8776.3	9112.5	9424.4	9673.1	9877.2
-37.5°	5871.7	6280.7	6679.9	7063.3	7432.6	7780.2	8104.4	8399.8	8664.5	8910.1	9109.5
-40°	5418.6	5790.4	6150.8	6493.0	6828.4	7149.2	7449.3	7710.8	7945.3	8160.9	8340.5
-42.5°	4963.3	5302.9	5630.0	5943.9	6237.3	6531.5	6809.0	7056.8	7264.8	7446.3	7598.7
-45°	4513.9	4818.3	5110.3	5398.1	5664.9	5919.4	6166.0	6392.8	6575.1	6734.7	6868.8
-47.5°	4069.8	4341.2	4605.9	4857.5	5099.8	5326.9	5526.8	5708.9	5886.6	6031.5	6146.1
-50°	3642.1	3880.5	4117.6	4337.4	4556.4	4760.6	4945.2	5105.0	5247.5	5370.9	5468.0
-52.5°	3233.2	3441.6	3646.1	3843.7	4034.3	4211.5	4372.6	4510.3	4632.8	4737.7	4821.5
-55°	2859.5	3031.0	3188.5	3362.2	3530.0	3682.8	3817.3	3935.5	4037.8	4123.4	4196.1
-57.5°	2519.6	2656.7	2792.4	2930.1	3060.3	3182.0	3296.0	3396.5	3481.5	3551.2	3609.7
-60°	2204.9	2310.8	2427.0	2537.8	2639.8	2733.1	2825.6	2905.8	2974.4	3031.3	3077.3
-62.5°	1912.2	2005.4	2092.0	2175.9	2258.2	2339.2	2401.4	2458.1	2508.4	2551.7	2586.2
-65°	1630.5	1706.6	1774.0	1835.9	1892.6	1952.3	2001.2	2042.3	2075.4	2102.7	2124.7
-67.5°	1362.6	1422.1	1474.0	1518.3	1562.2	1603.3	1637.1	1664.7	1686.0	1704.2	1718.1
-70°	1124.8	1169.1	1206.4	1242.1	1278.3	1307.4	1329.4	1345.3	1355.4	1362.0	1366.7
-72.5°	913.6	954.9	988.7	1020.3	1047.0	1066.4	1080.3	1090.8	1097.9	1090.8	1078.1
-75°	718.9	758.6	796.9	829.5	856.6	869.1	875.2	879.5	882.0	858.4	827.5
-77.5°	551.0	591.6	627.2	659.7	689.3	694.9	694.1	692.6	690.2	657.4	617.6
-80°	387.3	419.5	449.9	480.1	509.8	513.2	509.8	503.6	495.0	462.8	426.3
-82.5°	237.3	256.3	274.4	292.4	310.2	314.8	316.2	315.6	313.1	288.6	261.4
-85°	109.9	117.7	124.9	131.8	138.4	144.7	150.6	156.0	161.1	147.1	131.7
-87.5°	21.5	22.2	22.8	23.3	23.8	24.3	24.7	25.1	25.4	24.1	22.7
-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: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	19.6	19.7	19.7	19.7	19.6	21.2	22.7	24.1	25.4	25.1
85°	115.3	98.2	92.0	85.5	92.0	98.2	115.3	131.7	147.1	161.1	156.0
82.5°	232.9	203.2	193.8	184.2	193.8	203.2	232.9	261.4	288.6	313.1	315.6
80°	387.9	347.7	331.9	315.7	331.9	347.7	387.9	426.3	462.8	495.0	503.6
77.5°	575.6	531.4	512.6	493.3	512.6	531.4	575.6	617.6	657.4	690.2	692.6
75°	794.9	760.3	739.4	716.9	739.4	760.3	794.9	827.5	858.4	882.0	879.5
72.5°	1063.7	1046.8	1031.5	1012.9	1031.5	1046.8	1063.7	1078.1	1090.8	1097.9	1090.8
70°	1368.2	1366.1	1368.8	1368.0	1368.8	1366.1	1368.2	1366.7	1362.0	1355.4	1345.3
67.5°	1725.3	1725.7	1733.1	1736.4	1733.1	1725.7	1725.3	1718.1	1704.2	1686.0	1664.7
65°	2138.2	2143.2	2141.3	2131.0	2141.3	2143.2	2138.2	2124.7	2102.7	2075.4	2042.3
62.5°	2610.7	2624.9	2632.7	2630.9	2632.7	2624.9	2610.7	2586.2	2551.7	2508.4	2458.1
60°	3111.5	3133.8	3145.0	3143.9	3145.0	3133.8	3111.5	3077.3	3031.3	2974.4	2905.8
57.5°	3653.3	3681.9	3688.5	3676.6	3688.5	3681.9	3653.3	3609.7	3551.2	3481.5	3396.5
55°	4251.0	4287.5	4301.6	4294.9	4301.6	4287.5	4251.0	4196.1	4123.4	4037.8	3935.5
52.5°	4882.9	4922.4	4936.4	4926.3	4936.4	4922.4	4882.9	4821.5	4737.7	4632.8	4510.3
50°	5539.2	5587.0	5606.3	5597.1	5606.3	5587.0	5539.2	5468.0	5370.9	5247.5	5105.0
47.5°	6235.9	6299.5	6324.3	6307.5	6324.3	6299.5	6235.9	6146.1	6031.5	5886.6	5708.9
45°	6969.0	7035.0	7060.6	7044.1	7060.6	7035.0	6969.0	6868.8	6734.7	6575.1	6392.8
42.5°	7715.2	7800.9	7837.2	7807.1	7837.2	7800.9	7715.2	7598.7	7446.3	7264.8	7056.8
40°	8474.6	8567.7	8610.6	8589.7	8610.6	8567.7	8474.6	8340.5	8160.9	7945.3	7710.8
37.5°	9253.5	9346.1	9391.6	9392.1	9391.6	9346.1	9253.5	9109.5	8910.1	8664.5	8399.8
35°	10035.2	10147.3	10210.8	10207.7	10210.8	10147.3	10035.2	9877.2	9673.1	9424.4	9112.5
32.5°	10827.9	10949.3	11014.1	11023.3	11014.1	10949.3	10827.9	10642.5	10407.9	10134.5	9813.7
30°	11619.3	11752.8	11827.8	11858.6	11827.8	11752.8	11619.3	11413.7	11150.6	10851.6	10506.5
27.5°	12386.7	12550.9	12664.2	12674.1	12664.2	12550.9	12386.7	12176.5	11899.0	11574.1	11197.6
25°	13130.0	13297.2	13413.4	13437.1	13413.4	13297.2	13130.0	12920.7	12635.7	12278.9	11876.7
22.5°	13862.5	14037.3	14144.6	14186.9	14144.6	14037.3	13862.5	13628.2	13312.7	12939.7	12513.5
20°	14561.9	14751.3	14865.1	14910.4	14865.1	14751.3	14561.9	14304.3	13956.5	13559.5	13108.5
17.5°	15194.5	15394.7	15535.2	15574.7	15535.2	15394.7	15194.5	14921.9	14557.6	14136.0	13649.5
15°	15751.3	15941.1	16074.5	16127.1	16074.5	15941.1	15751.3	15483.7	15114.4	14658.4	14118.2
12.5°	16204.5	16374.3	16478.7	16528.3	16478.7	16374.3	16204.5	15949.2	15609.7	15097.5	14530.1
10°	16558.5	16728.9	16828.6	16896.7	16828.6	16728.9	16558.5	16321.1	15941.9	15483.2	14925.6
7.5°	16865.8	17040.3	17162.4	17258.4	17162.4	17040.3	16865.8	16545.2	16207.0	15774.9	15212.0
5°	17035.4	17326.9	17370.7	17436.0	17370.7	17326.9	17035.4	16745.1	16376.3	15936.6	15387.1
2.5°	17164.8	17371.5	17495.7	17482.0	17495.7	17371.5	17164.8	16823.2	16470.0	16067.2	15535.1
0°	17258.4	17442.6	17488.6	17547.8	17488.6	17442.6	17258.4	16916.4	16548.1	16146.9	15594.4
-2.5°	17164.8	17371.5	17495.7	17482.0	17495.7	17371.5	17164.8	16823.2	16470.0	16067.2	15535.1
-5°	17035.4	17326.9	17370.7	17436.0	17370.7	17326.9	17035.4	16745.1	16376.3	15936.6	15387.1
-7.5°	16865.8	17040.3	17162.4	17258.4	17162.4	17040.3	16865.8	16545.2	16207.0	15774.9	15212.0
-10°	16558.5	16728.9	16828.6	16896.7	16828.6	16728.9	16558.5	16321.1	15941.9	15483.2	14925.6
-12.5°	16204.5	16374.3	16478.7	16528.3	16478.7	16374.3	16204.5	15949.2	15609.7	15097.5	14530.1
-15°	15751.3	15941.1	16074.5	16127.1	16074.5	15941.1	15751.3	15483.7	15114.4	14658.4	14118.2
-17.5°	15194.5	15394.7	15535.2	15574.7	15535.2	15394.7	15194.5	14921.9	14557.6	14136.0	13649.5
-20°	14561.9	14751.3	14865.1	14910.4	14865.1	14751.3	14561.9	14304.3	13956.5	13559.5	13108.5



REPORT NUMBER: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	13862.5	14037.3	14144.6	14186.9	14144.6	14037.3	13862.5	13628.2	13312.7	12939.7	12513.5
-25°	13130.0	13297.2	13413.4	13437.1	13413.4	13297.2	13130.0	12920.7	12635.7	12278.9	11876.7
-27.5°	12386.7	12550.9	12664.2	12674.1	12664.2	12550.9	12386.7	12176.5	11899.0	11574.1	11197.6
-30°	11619.3	11752.8	11827.8	11858.6	11827.8	11752.8	11619.3	11413.7	11150.6	10851.6	10506.5
-32.5°	10827.9	10949.3	11014.1	11023.3	11014.1	10949.3	10827.9	10642.5	10407.9	10134.5	9813.7
-35°	10035.2	10147.3	10210.8	10207.7	10210.8	10147.3	10035.2	9877.2	9673.1	9424.4	9112.5
-37.5°	9253.5	9346.1	9391.6	9392.1	9391.6	9346.1	9253.5	9109.5	8910.1	8664.5	8399.8
-40°	8474.6	8567.7	8610.6	8589.7	8610.6	8567.7	8474.6	8340.5	8160.9	7945.3	7710.8
-42.5°	7715.2	7800.9	7837.2	7807.1	7837.2	7800.9	7715.2	7598.7	7446.3	7264.8	7056.8
-45°	6969.0	7035.0	7060.6	7044.1	7060.6	7035.0	6969.0	6868.8	6734.7	6575.1	6392.8
-47.5°	6235.9	6299.5	6324.3	6307.5	6324.3	6299.5	6235.9	6146.1	6031.5	5886.6	5708.9
-50°	5539.2	5587.0	5606.3	5597.1	5606.3	5587.0	5539.2	5468.0	5370.9	5247.5	5105.0
-52.5°	4882.9	4922.4	4936.4	4926.3	4936.4	4922.4	4882.9	4821.5	4737.7	4632.8	4510.3
-55°	4251.0	4287.5	4301.6	4294.9	4301.6	4287.5	4251.0	4196.1	4123.4	4037.8	3935.5
-57.5°	3653.3	3681.9	3688.5	3676.6	3688.5	3681.9	3653.3	3609.7	3551.2	3481.5	3396.5
-60°	3111.5	3133.8	3145.0	3143.9	3145.0	3133.8	3111.5	3077.3	3031.3	2974.4	2905.8
-62.5°	2610.7	2624.9	2632.7	2630.9	2632.7	2624.9	2610.7	2586.2	2551.7	2508.4	2458.1
-65°	2138.2	2143.2	2141.3	2131.0	2141.3	2143.2	2138.2	2124.7	2102.7	2075.4	2042.3
-67.5°	1725.3	1725.7	1733.1	1736.4	1733.1	1725.7	1725.3	1718.1	1704.2	1686.0	1664.7
-70°	1368.2	1366.1	1368.8	1368.0	1368.8	1366.1	1368.2	1366.7	1362.0	1355.4	1345.3
-72.5°	1063.7	1046.8	1031.5	1012.9	1031.5	1046.8	1063.7	1078.1	1090.8	1097.9	1090.8
-75°	794.9	760.3	739.4	716.9	739.4	760.3	794.9	827.5	858.4	882.0	879.5
-77.5°	575.6	531.4	512.6	493.3	512.6	531.4	575.6	617.6	657.4	690.2	692.6
-80°	387.9	347.7	331.9	315.7	331.9	347.7	387.9	426.3	462.8	495.0	503.6
-82.5°	232.9	203.2	193.8	184.2	193.8	203.2	232.9	261.4	288.6	313.1	315.6
-85°	115.3	98.2	92.0	85.5	92.0	98.2	115.3	131.7	147.1	161.1	156.0
-87.5°	21.2	19.6	19.7	19.7	19.7	19.6	21.2	22.7	24.1	25.4	25.1
-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: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	24.3	23.8	23.3	22.8	22.2	21.5	20.9	20.1	19.4	18.6
85°	150.6	144.7	138.4	131.8	124.9	117.7	109.9	96.4	83.7	72.0	61.9
82.5°	316.2	314.8	310.2	292.4	274.4	256.3	237.3	208.9	181.1	154.0	130.3
80°	509.8	513.2	509.8	480.1	449.9	419.5	387.3	345.8	303.9	264.0	234.1
77.5°	694.1	694.9	689.3	659.7	627.2	591.6	551.0	501.2	451.2	400.8	362.3
75°	875.2	869.1	856.6	829.5	796.9	758.6	718.9	675.1	623.9	565.1	514.7
72.5°	1080.3	1066.4	1047.0	1020.3	988.7	954.9	913.6	865.1	811.6	752.9	699.7
70°	1329.4	1307.4	1278.3	1242.1	1206.4	1169.1	1124.8	1071.5	1009.2	944.3	885.0
67.5°	1637.1	1603.3	1562.2	1518.3	1474.0	1422.1	1362.6	1297.6	1233.2	1161.2	1079.9
65°	2001.2	1952.3	1892.6	1835.9	1774.0	1706.6	1630.5	1555.1	1476.3	1389.9	1286.8
62.5°	2401.4	2339.2	2258.2	2175.9	2092.0	2005.4	1912.2	1819.5	1725.4	1623.6	1507.5
60°	2825.6	2733.1	2639.8	2537.8	2427.0	2310.8	2204.9	2092.3	1973.3	1858.0	1730.7
57.5°	3296.0	3182.0	3060.3	2930.1	2792.4	2656.7	2519.6	2377.9	2243.3	2102.8	1958.7
55°	3817.3	3682.8	3530.0	3362.2	3188.5	3031.0	2859.5	2687.7	2525.6	2355.0	2196.3
52.5°	4372.6	4211.5	4034.3	3843.7	3646.1	3441.6	3233.2	3035.9	2824.8	2631.8	2439.9
50°	4945.2	4760.6	4556.4	4337.4	4117.6	3880.5	3642.1	3405.0	3165.8	2929.1	2699.1
47.5°	5526.8	5326.9	5099.8	4857.5	4605.9	4341.2	4069.8	3784.5	3520.0	3245.4	2984.2
45°	6166.0	5919.4	5664.9	5398.1	5110.3	4818.3	4513.9	4201.6	3883.3	3581.4	3275.1
42.5°	6809.0	6531.5	6237.3	5943.9	5630.0	5302.9	4963.3	4619.2	4269.4	3921.2	3586.5
40°	7449.3	7149.2	6828.4	6493.0	6150.8	5790.4	5418.6	5035.8	4656.0	4273.1	3894.4
37.5°	8104.4	7780.2	7432.6	7063.3	6679.9	6280.7	5871.7	5457.2	5038.4	4626.4	4215.6
35°	8776.3	8421.4	8037.8	7634.4	7212.5	6775.5	6326.7	5872.8	5422.3	4976.7	4531.7
32.5°	9442.2	9057.6	8644.0	8202.6	7738.1	7262.4	6780.0	6289.8	5796.8	5320.9	4846.9
30°	10113.7	9687.9	9239.8	8762.8	8259.2	7741.3	7218.6	6699.4	6173.9	5650.2	5148.8
27.5°	10771.6	10306.8	9820.0	9304.3	8766.2	8210.5	7649.0	7094.8	6534.3	5977.6	5436.9
25°	11411.9	10910.1	10373.0	9822.2	9251.7	8659.3	8055.8	7469.5	6884.2	6288.4	5695.5
22.5°	12028.2	11478.7	10899.8	10310.6	9710.6	9088.1	8444.5	7812.7	7206.9	6567.1	5947.6
20°	12596.3	12006.5	11388.3	10767.7	10133.1	9496.3	8806.6	8134.5	7483.0	6826.1	6176.1
17.5°	13100.5	12501.2	11852.8	11198.7	10523.0	9852.5	9145.1	8427.4	7737.0	7056.1	6377.2
15°	13544.9	12946.2	12289.5	11599.7	10878.3	10146.0	9431.6	8686.2	7968.5	7259.5	6563.1
12.5°	13948.5	13321.6	12665.9	11936.4	11170.5	10406.6	9663.6	8912.9	8174.4	7445.6	6730.4
10°	14310.7	13629.2	12935.3	12196.1	11415.0	10626.4	9861.3	9103.6	8349.6	7604.9	6868.3
7.5°	14559.0	13857.4	13140.4	12403.6	11621.4	10820.4	10032.3	9256.8	8486.2	7731.8	6975.9
5°	14742.2	14037.5	13318.2	12571.1	11781.6	10965.2	10158.3	9367.9	8583.5	7824.6	7052.5
2.5°	14883.0	14160.6	13439.5	12675.9	11885.3	11063.0	10248.6	9451.4	8660.7	7892.6	7120.2
0°	14982.7	14206.6	13509.4	12759.6	11950.7	11121.9	10306.4	9504.0	8708.1	7925.4	7155.9
-2.5°	14883.0	14160.6	13439.5	12675.9	11885.3	11063.0	10248.6	9451.4	8660.7	7892.6	7120.2
-5°	14742.2	14037.5	13318.2	12571.1	11781.6	10965.2	10158.3	9367.9	8583.5	7824.6	7052.5
-7.5°	14559.0	13857.4	13140.4	12403.6	11621.4	10820.4	10032.3	9256.8	8486.2	7731.8	6975.9
-10°	14310.7	13629.2	12935.3	12196.1	11415.0	10626.4	9861.3	9103.6	8349.6	7604.9	6868.3
-12.5°	13948.5	13321.6	12665.9	11936.4	11170.5	10406.6	9663.6	8912.9	8174.4	7445.6	6730.4
-15°	13544.9	12946.2	12289.5	11599.7	10878.3	10146.0	9431.6	8686.2	7968.5	7259.5	6563.1
-17.5°	13100.5	12501.2	11852.8	11198.7	10523.0	9852.5	9145.1	8427.4	7737.0	7056.1	6377.2
-20°	12596.3	12006.5	11388.3	10767.7	10133.1	9496.3	8806.6	8134.5	7483.0	6826.1	6176.1



REPORT NUMBER: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12028.2	11478.7	10899.8	10310.6	9710.6	9088.1	8444.5	7812.7	7206.9	6567.1	5947.6
-25°	11411.9	10910.1	10373.0	9822.2	9251.7	8659.3	8055.8	7469.5	6884.2	6288.4	5695.5
-27.5°	10771.6	10306.8	9820.0	9304.3	8766.2	8210.5	7649.0	7094.8	6534.3	5977.6	5436.9
-30°	10113.7	9687.9	9239.8	8762.8	8259.2	7741.3	7218.6	6699.4	6173.9	5650.2	5148.8
-32.5°	9442.2	9057.6	8644.0	8202.6	7738.1	7262.4	6780.0	6289.8	5796.8	5320.9	4846.9
-35°	8776.3	8421.4	8037.8	7634.4	7212.5	6775.5	6326.7	5872.8	5422.3	4976.7	4531.7
-37.5°	8104.4	7780.2	7432.6	7063.3	6679.9	6280.7	5871.7	5457.2	5038.4	4626.4	4215.6
-40°	7449.3	7149.2	6828.4	6493.0	6150.8	5790.4	5418.6	5035.8	4656.0	4273.1	3894.4
-42.5°	6809.0	6531.5	6237.3	5943.9	5630.0	5302.9	4963.3	4619.2	4269.4	3921.2	3586.5
-45°	6166.0	5919.4	5664.9	5398.1	5110.3	4818.3	4513.9	4201.6	3883.3	3581.4	3275.1
-47.5°	5526.8	5326.9	5099.8	4857.5	4605.9	4341.2	4069.8	3784.5	3520.0	3245.4	2984.2
-50°	4945.2	4760.6	4556.4	4337.4	4117.6	3880.5	3642.1	3405.0	3165.8	2929.1	2699.1
-52.5°	4372.6	4211.5	4034.3	3843.7	3646.1	3441.6	3233.2	3035.9	2824.8	2631.8	2439.9
-55°	3817.3	3682.8	3530.0	3362.2	3188.5	3031.0	2859.5	2687.7	2525.6	2355.0	2196.3
-57.5°	3296.0	3182.0	3060.3	2930.1	2792.4	2656.7	2519.6	2377.9	2243.3	2102.8	1958.7
-60°	2825.6	2733.1	2639.8	2537.8	2427.0	2310.8	2204.9	2092.3	1973.3	1858.0	1730.7
-62.5°	2401.4	2339.2	2258.2	2175.9	2092.0	2005.4	1912.2	1819.5	1725.4	1623.6	1507.5
-65°	2001.2	1952.3	1892.6	1835.9	1774.0	1706.6	1630.5	1555.1	1476.3	1389.9	1286.8
-67.5°	1637.1	1603.3	1562.2	1518.3	1474.0	1422.1	1362.6	1297.6	1233.2	1161.2	1079.9
-70°	1329.4	1307.4	1278.3	1242.1	1206.4	1169.1	1124.8	1071.5	1009.2	944.3	885.0
-72.5°	1080.3	1066.4	1047.0	1020.3	988.7	954.9	913.6	865.1	811.6	752.9	699.7
-75°	875.2	869.1	856.6	829.5	796.9	758.6	718.9	675.1	623.9	565.1	514.7
-77.5°	694.1	694.9	689.3	659.7	627.2	591.6	551.0	501.2	451.2	400.8	362.3
-80°	509.8	513.2	509.8	480.1	449.9	419.5	387.3	345.8	303.9	264.0	234.1
-82.5°	316.2	314.8	310.2	292.4	274.4	256.3	237.3	208.9	181.1	154.0	130.3
-85°	150.6	144.7	138.4	131.8	124.9	117.7	109.9	96.4	83.7	72.0	61.9
-87.5°	24.7	24.3	23.8	23.3	22.8	22.2	21.5	20.9	20.1	19.4	18.6
-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: P627731 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	19.0	19.0	18.9	16.8	14.8	12.9	11.1	10.1	9.0	7.9
85°	62.2	60.7	57.4	52.1	41.0	29.5	25.7	22.2	20.1	18.0	15.8
82.5°	129.9	131.2	131.1	127.2	112.2	96.5	80.0	62.9	46.6	29.6	23.7
80°	234.5	232.0	226.4	215.7	191.1	163.4	142.5	120.8	99.6	77.5	54.6
77.5°	354.5	344.4	332.0	318.0	291.9	261.3	226.0	186.1	152.4	125.2	96.9
75°	488.7	472.5	455.2	431.8	398.3	359.9	321.3	274.8	223.1	174.4	139.0
72.5°	656.9	617.9	583.0	550.2	513.9	471.1	421.7	361.8	299.0	239.7	184.1
70°	827.4	768.8	716.6	671.8	628.1	583.2	529.0	455.2	373.6	303.8	238.3
67.5°	1000.5	931.2	861.3	794.3	739.1	686.3	634.0	548.1	454.6	366.4	291.3
65°	1191.5	1099.1	1010.3	927.5	852.5	786.5	725.1	635.1	533.1	434.1	342.8
62.5°	1388.2	1270.3	1165.1	1059.6	966.2	886.0	812.2	712.9	608.3	499.4	396.6
60°	1595.0	1460.8	1320.9	1197.7	1083.3	981.8	892.5	789.6	678.6	562.4	450.0
57.5°	1812.8	1655.0	1497.9	1342.1	1204.7	1083.0	970.6	862.3	747.7	624.4	499.8
55°	2033.4	1863.5	1677.7	1502.1	1333.5	1188.7	1053.2	932.1	814.4	685.4	542.7
52.5°	2254.3	2067.6	1868.2	1665.4	1476.7	1295.4	1144.1	1000.1	875.8	745.0	587.4
50°	2485.4	2271.3	2057.7	1838.6	1619.2	1420.5	1231.8	1078.1	935.4	801.6	629.9
47.5°	2725.9	2487.4	2249.6	2010.2	1774.9	1540.2	1334.3	1154.5	993.1	852.9	669.3
45°	2989.5	2710.6	2447.4	2188.5	1922.4	1669.5	1438.0	1227.5	1058.3	892.8	705.7
42.5°	3252.9	2946.2	2652.1	2364.2	2076.8	1798.0	1536.3	1313.6	1120.8	931.0	739.2
40°	3533.2	3182.6	2856.6	2544.2	2227.6	1920.2	1645.2	1397.4	1179.2	970.6	770.8
37.5°	3805.6	3425.0	3066.7	2716.1	2375.3	2052.2	1749.9	1476.0	1234.8	1015.1	800.9
35°	4094.0	3668.5	3260.9	2889.1	2527.3	2177.4	1848.0	1555.3	1298.7	1058.5	829.2
32.5°	4372.6	3906.6	3469.5	3059.7	2672.6	2295.3	1948.9	1639.2	1360.1	1100.6	855.6
30°	4646.4	4145.5	3669.3	3221.1	2813.3	2419.1	2050.0	1717.6	1418.9	1141.3	882.1
27.5°	4898.8	4366.8	3860.9	3387.9	2951.5	2536.5	2145.5	1790.4	1474.6	1183.1	912.9
25°	5133.9	4579.8	4049.7	3548.4	3079.8	2647.7	2233.5	1857.7	1531.4	1226.7	941.5
22.5°	5354.5	4777.5	4220.8	3696.3	3198.7	2749.9	2319.2	1929.4	1585.1	1266.9	967.6
20°	5555.1	4955.5	4374.0	3830.3	3314.3	2847.2	2401.7	1993.6	1633.1	1303.3	991.2
17.5°	5735.8	5118.3	4520.3	3955.6	3422.0	2933.6	2475.0	2050.3	1675.2	1335.8	1011.9
15°	5903.4	5266.2	4649.6	4064.9	3515.2	3008.9	2538.8	2099.2	1711.3	1364.1	1031.7
12.5°	6047.6	5393.0	4759.3	4157.9	3593.7	3072.6	2592.8	2140.1	1741.3	1389.6	1050.3
10°	6166.2	5497.9	4848.9	4233.8	3657.2	3124.6	2636.6	2174.6	1769.5	1411.7	1064.6
7.5°	6258.6	5580.0	4917.9	4292.4	3707.6	3167.9	2674.0	2204.4	1792.1	1428.6	1074.6
5°	6328.6	5644.2	4978.0	4341.5	3753.9	3203.0	2701.1	2225.7	1808.6	1440.3	1080.3
2.5°	6390.8	5692.2	5025.1	4373.3	3785.4	3225.8	2717.4	2238.5	1818.5	1446.5	1081.7
0°	6425.9	5715.5	5051.2	4386.9	3801.6	3236.0	2722.9	2242.8	1821.9	1447.0	1078.7
-2.5°	6390.8	5692.2	5025.1	4373.3	3785.4	3225.8	2717.4	2238.5	1818.5	1446.5	1081.7
-5°	6328.6	5644.2	4978.0	4341.5	3753.9	3203.0	2701.1	2225.7	1808.6	1440.3	1080.3
-7.5°	6258.6	5580.0	4917.9	4292.4	3707.6	3167.9	2674.0	2204.4	1792.1	1428.6	1074.6
-10°	6166.2	5497.9	4848.9	4233.8	3657.2	3124.6	2636.6	2174.6	1769.5	1411.7	1064.6
-12.5°	6047.6	5393.0	4759.3	4157.9	3593.7	3072.6	2592.8	2140.1	1741.3	1389.6	1050.3
-15°	5903.4	5266.2	4649.6	4064.9	3515.2	3008.9	2538.8	2099.2	1711.3	1364.1	1031.7
-17.5°	5735.8	5118.3	4520.3	3955.6	3422.0	2933.6	2475.0	2050.3	1675.2	1335.8	1011.9
-20°	5555.1	4955.5	4374.0	3830.3	3314.3	2847.2	2401.7	1993.6	1633.1	1303.3	991.2



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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°	5354.5	4777.5	4220.8	3696.3	3198.7	2749.9	2319.2	1929.4	1585.1	1266.9	967.6
-25°	5133.9	4579.8	4049.7	3548.4	3079.8	2647.7	2233.5	1857.7	1531.4	1226.7	941.5
-27.5°	4898.8	4366.8	3860.9	3387.9	2951.5	2536.5	2145.5	1790.4	1474.6	1183.1	912.9
-30°	4646.4	4145.5	3669.3	3221.1	2813.3	2419.1	2050.0	1717.6	1418.9	1141.3	882.1
-32.5°	4372.6	3906.6	3469.5	3059.7	2672.6	2295.3	1948.9	1639.2	1360.1	1100.6	855.6
-35°	4094.0	3668.5	3260.9	2889.1	2527.3	2177.4	1848.0	1555.3	1298.7	1058.5	829.2
-37.5°	3805.6	3425.0	3066.7	2716.1	2375.3	2052.2	1749.9	1476.0	1234.8	1015.1	800.9
-40°	3533.2	3182.6	2856.6	2544.2	2227.6	1920.2	1645.2	1397.4	1179.2	970.6	770.8
-42.5°	3252.9	2946.2	2652.1	2364.2	2076.8	1798.0	1536.3	1313.6	1120.8	931.0	739.2
-45°	2989.5	2710.6	2447.4	2188.5	1922.4	1669.5	1438.0	1227.5	1058.3	892.8	705.7
-47.5°	2725.9	2487.4	2249.6	2010.2	1774.9	1540.2	1334.3	1154.5	993.1	852.9	669.3
-50°	2485.4	2271.3	2057.7	1838.6	1619.2	1420.5	1231.8	1078.1	935.4	801.6	629.9
-52.5°	2254.3	2067.6	1868.2	1665.4	1476.7	1295.4	1144.1	1000.1	875.8	745.0	587.4
-55°	2033.4	1863.5	1677.7	1502.1	1333.5	1188.7	1053.2	932.1	814.4	685.4	542.7
-57.5°	1812.8	1655.0	1497.9	1342.1	1204.7	1083.0	970.6	862.3	747.7	624.4	499.8
-60°	1595.0	1460.8	1320.9	1197.7	1083.3	981.8	892.5	789.6	678.6	562.4	450.0
-62.5°	1388.2	1270.3	1165.1	1059.6	966.2	886.0	812.2	712.9	608.3	499.4	396.6
-65°	1191.5	1099.1	1010.3	927.5	852.5	786.5	725.1	635.1	533.1	434.1	342.8
-67.5°	1000.5	931.2	861.3	794.3	739.1	686.3	634.0	548.1	454.6	366.4	291.3
-70°	827.4	768.8	716.6	671.8	628.1	583.2	529.0	455.2	373.6	303.8	238.3
-72.5°	656.9	617.9	583.0	550.2	513.9	471.1	421.7	361.8	299.0	239.7	184.1
-75°	488.7	472.5	455.2	431.8	398.3	359.9	321.3	274.8	223.1	174.4	139.0
-77.5°	354.5	344.4	332.0	318.0	291.9	261.3	226.0	186.1	152.4	125.2	96.9
-80°	234.5	232.0	226.4	215.7	191.1	163.4	142.5	120.8	99.6	77.5	54.6
-82.5°	129.9	131.2	131.1	127.2	112.2	96.5	80.0	62.9	46.6	29.6	23.7
-85°	62.2	60.7	57.4	52.1	41.0	29.5	25.7	22.2	20.1	18.0	15.8
-87.5°	18.9	19.0	19.0	18.9	16.8	14.8	12.9	11.1	10.1	9.0	7.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	5.7	4.6	3.4	2.3	1.0	0.0
85°	13.6	11.4	9.1	6.9	4.6	2.0	0.0
82.5°	20.4	17.0	13.7	10.3	6.8	3.0	0.0
80°	30.6	22.7	18.2	13.7	9.1	4.0	0.0
77.5°	66.8	35.5	22.7	17.0	11.3	5.0	0.0
75°	102.0	61.5	29.5	20.4	13.5	5.9	0.0
72.5°	136.2	86.7	47.1	23.7	15.6	6.9	0.0
70°	170.3	111.0	64.0	28.3	17.7	7.8	0.0
67.5°	211.3	134.3	80.4	38.8	19.7	8.7	0.0
65°	250.5	160.4	95.9	48.9	21.7	9.6	0.0
62.5°	287.7	188.9	110.7	58.6	23.6	10.4	0.0
60°	322.8	216.0	124.6	67.7	25.4	11.3	0.0
57.5°	359.7	241.3	143.1	76.2	30.5	12.1	0.0
55°	394.7	265.0	160.7	84.2	35.5	12.8	0.0
52.5°	427.1	287.4	177.1	91.6	40.3	13.6	0.0
50°	456.8	311.2	192.1	98.4	44.9	14.3	0.0
47.5°	484.6	332.9	205.9	105.4	49.3	15.0	0.0
45°	515.5	352.5	218.3	114.5	53.5	15.6	0.0
42.5°	543.9	369.9	229.2	122.8	57.4	16.2	0.0
40°	569.6	385.1	240.2	131.2	61.2	16.7	0.0
37.5°	592.6	398.1	251.2	139.6	64.6	17.2	0.0
35°	612.9	413.2	260.5	147.4	67.9	17.7	0.0
32.5°	631.7	428.2	268.4	154.6	70.8	18.1	0.0
30°	651.2	441.0	274.7	161.1	73.6	18.5	0.0
27.5°	668.8	451.7	284.0	167.1	76.0	18.8	0.0
25°	684.2	460.1	292.9	172.4	78.2	19.1	0.0
22.5°	697.4	468.6	300.6	177.1	80.1	19.4	0.0
20°	708.4	480.2	307.3	181.2	81.8	19.6	0.0
17.5°	722.0	489.7	312.9	184.6	83.2	19.7	0.0
15°	736.2	497.2	317.5	187.4	84.3	19.9	0.0
12.5°	747.8	502.5	320.9	189.5	85.2	19.9	0.0
10°	756.6	505.8	323.3	191.0	85.8	20.0	0.0
7.5°	762.5	507.1	324.6	191.8	86.1	20.0	0.0
5°	765.6	506.6	324.9	192.1	86.1	19.9	0.0
2.5°	765.8	504.1	324.1	191.7	86.0	19.8	0.0
0°	762.9	499.9	322.3	190.7	85.5	19.7	0.0
-2.5°	765.8	504.1	324.1	191.7	86.0	19.8	0.0
-5°	765.6	506.6	324.9	192.1	86.1	19.9	0.0
-7.5°	762.5	507.1	324.6	191.8	86.1	20.0	0.0
-10°	756.6	505.8	323.3	191.0	85.8	20.0	0.0
-12.5°	747.8	502.5	320.9	189.5	85.2	19.9	0.0
-15°	736.2	497.2	317.5	187.4	84.3	19.9	0.0
-17.5°	722.0	489.7	312.9	184.6	83.2	19.7	0.0
-20°	708.4	480.2	307.3	181.2	81.8	19.6	0.0

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CATALOG NUMBER: GFLD-SA5E-722-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	697.4	468.6	300.6	177.1	80.1	19.4	0.0
-25°	684.2	460.1	292.9	172.4	78.2	19.1	0.0
-27.5°	668.8	451.7	284.0	167.1	76.0	18.8	0.0
-30°	651.2	441.0	274.7	161.1	73.6	18.5	0.0
-32.5°	631.7	428.2	268.4	154.6	70.8	18.1	0.0
-35°	612.9	413.2	260.5	147.4	67.9	17.7	0.0
-37.5°	592.6	398.1	251.2	139.6	64.6	17.2	0.0
-40°	569.6	385.1	240.2	131.2	61.2	16.7	0.0
-42.5°	543.9	369.9	229.2	122.8	57.4	16.2	0.0
-45°	515.5	352.5	218.3	114.5	53.5	15.6	0.0
-47.5°	484.6	332.9	205.9	105.4	49.3	15.0	0.0
-50°	456.8	311.2	192.1	98.4	44.9	14.3	0.0
-52.5°	427.1	287.4	177.1	91.6	40.3	13.6	0.0
-55°	394.7	265.0	160.7	84.2	35.5	12.8	0.0
-57.5°	359.7	241.3	143.1	76.2	30.5	12.1	0.0
-60°	322.8	216.0	124.6	67.7	25.4	11.3	0.0
-62.5°	287.7	188.9	110.7	58.6	23.6	10.4	0.0
-65°	250.5	160.4	95.9	48.9	21.7	9.6	0.0
-67.5°	211.3	134.3	80.4	38.8	19.7	8.7	0.0
-70°	170.3	111.0	64.0	28.3	17.7	7.8	0.0
-72.5°	136.2	86.7	47.1	23.7	15.6	6.9	0.0
-75°	102.0	61.5	29.5	20.4	13.5	5.9	0.0
-77.5°	66.8	35.5	22.7	17.0	11.3	5.0	0.0
-80°	30.6	22.7	18.2	13.7	9.1	4.0	0.0
-82.5°	20.4	17.0	13.7	10.3	6.8	3.0	0.0
-85°	13.6	11.4	9.1	6.9	4.6	2.0	0.0
-87.5°	6.8	5.7	4.6	3.4	2.3	1.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)