

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: P645477 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA4D-727-U-LAM-VSR-XX

Issue Date: 2/28/2023

Test Information

Test Method: LM-79-2019
Report Number: P645477 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA4D-727-U-LAM-VSR-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, LAMBERTIAN WITH VISOR
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18246.8 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')

Beam Angle (50%): 105.6°H x 93.7°V
Beam Lumens: 14264.2 lumens
Beam Efficiency: 78.2%

Field Angle (10%): 144°H x 131.2°V
Field Lumens: 17884.4 lumens
Field Efficiency: 98.0%

NEMA Type: 7H x 7V
Max Intensity: 7781.8 candela
Max Intensity Angle: 0°H x -20°V

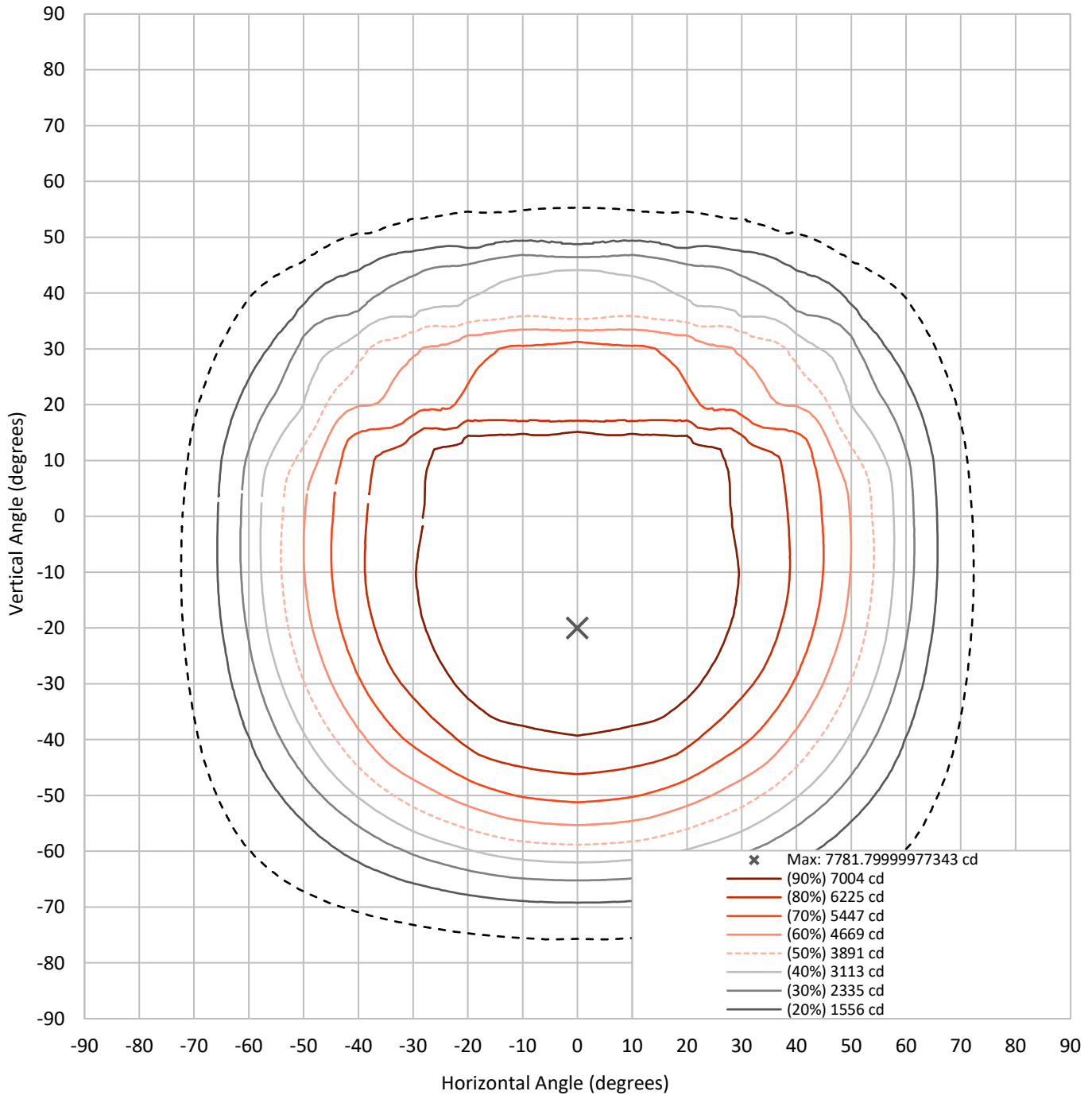
Input Watts (W): 221.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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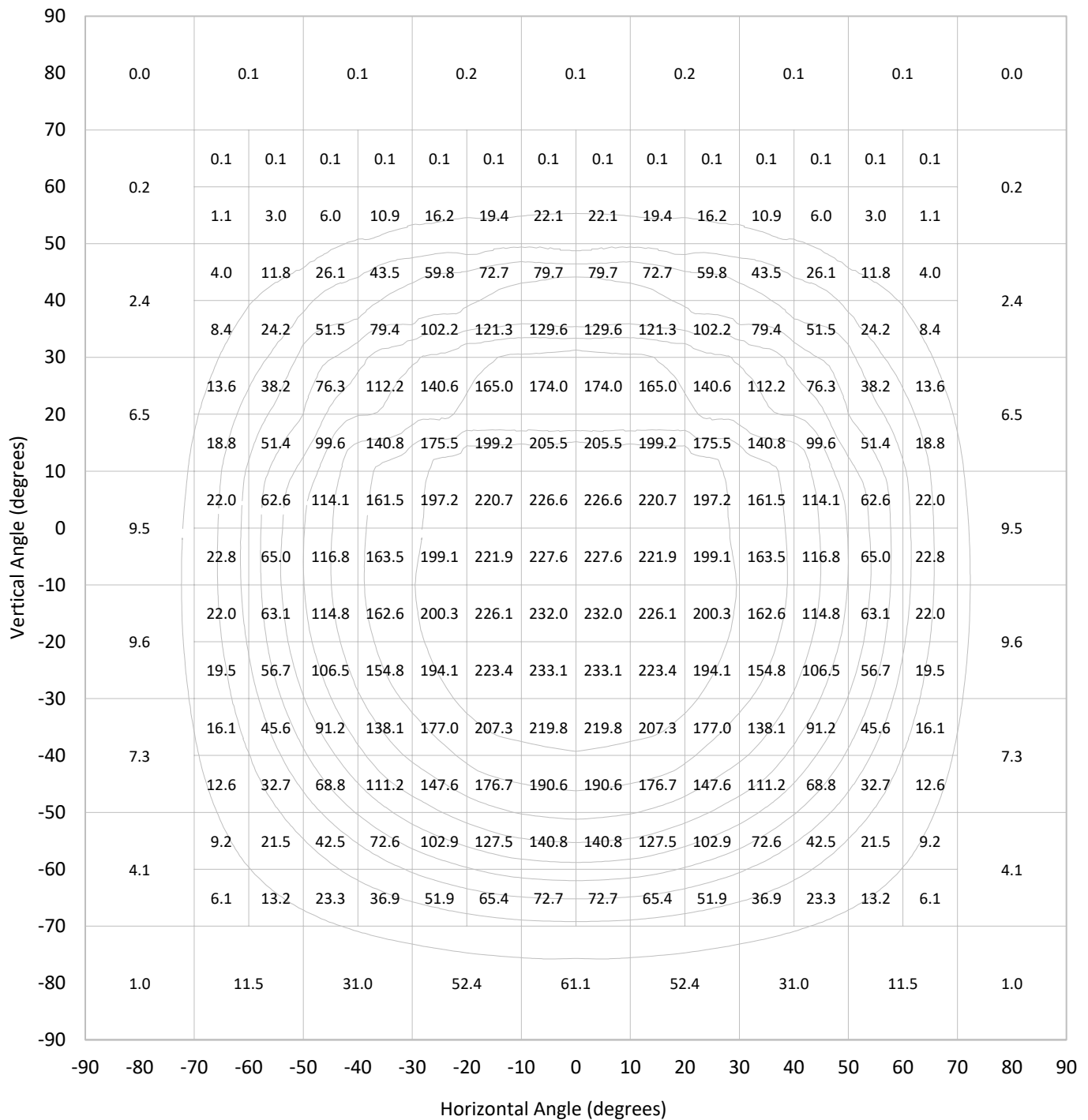
Iso-Candela Plot





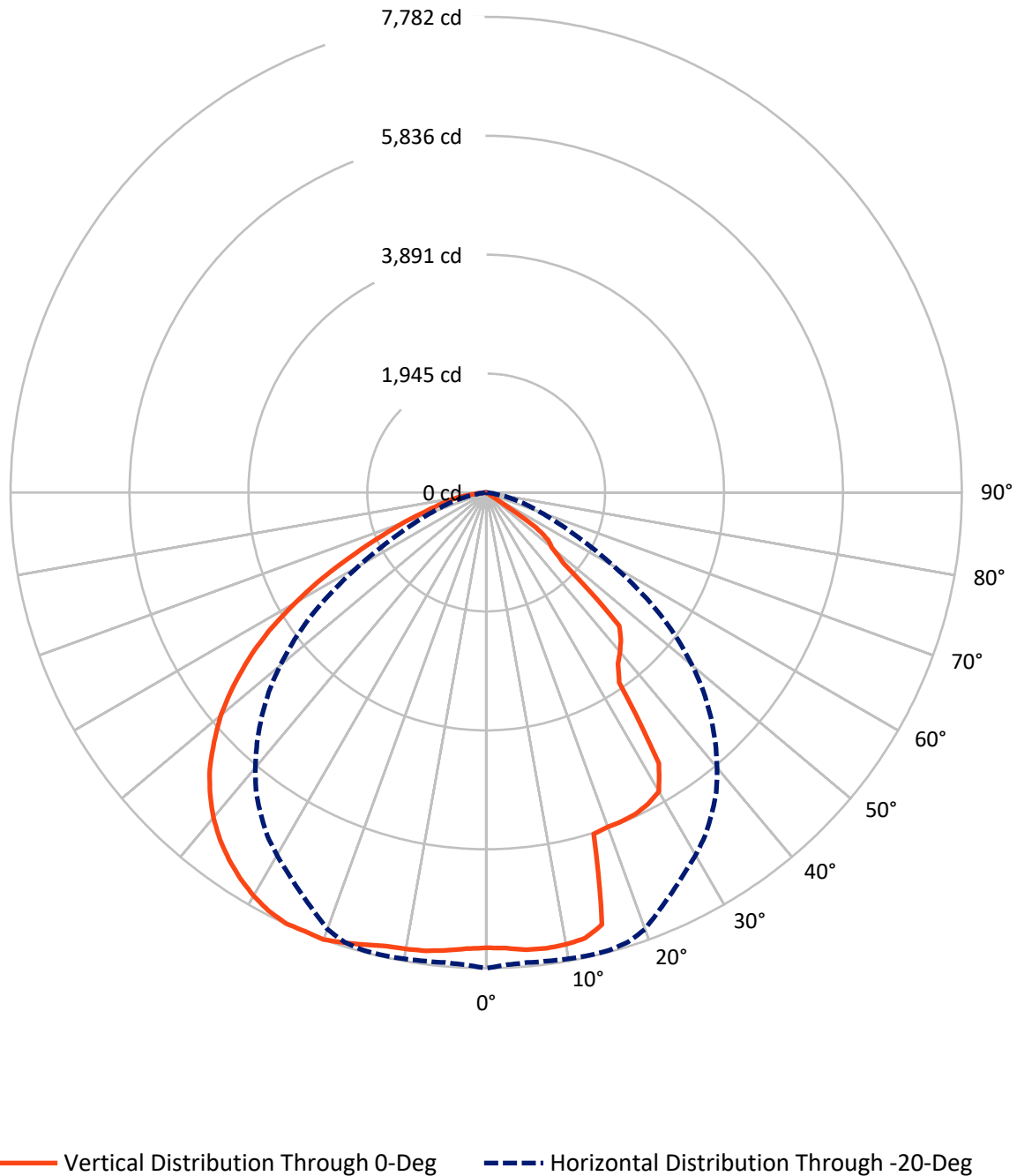
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Lumen Table



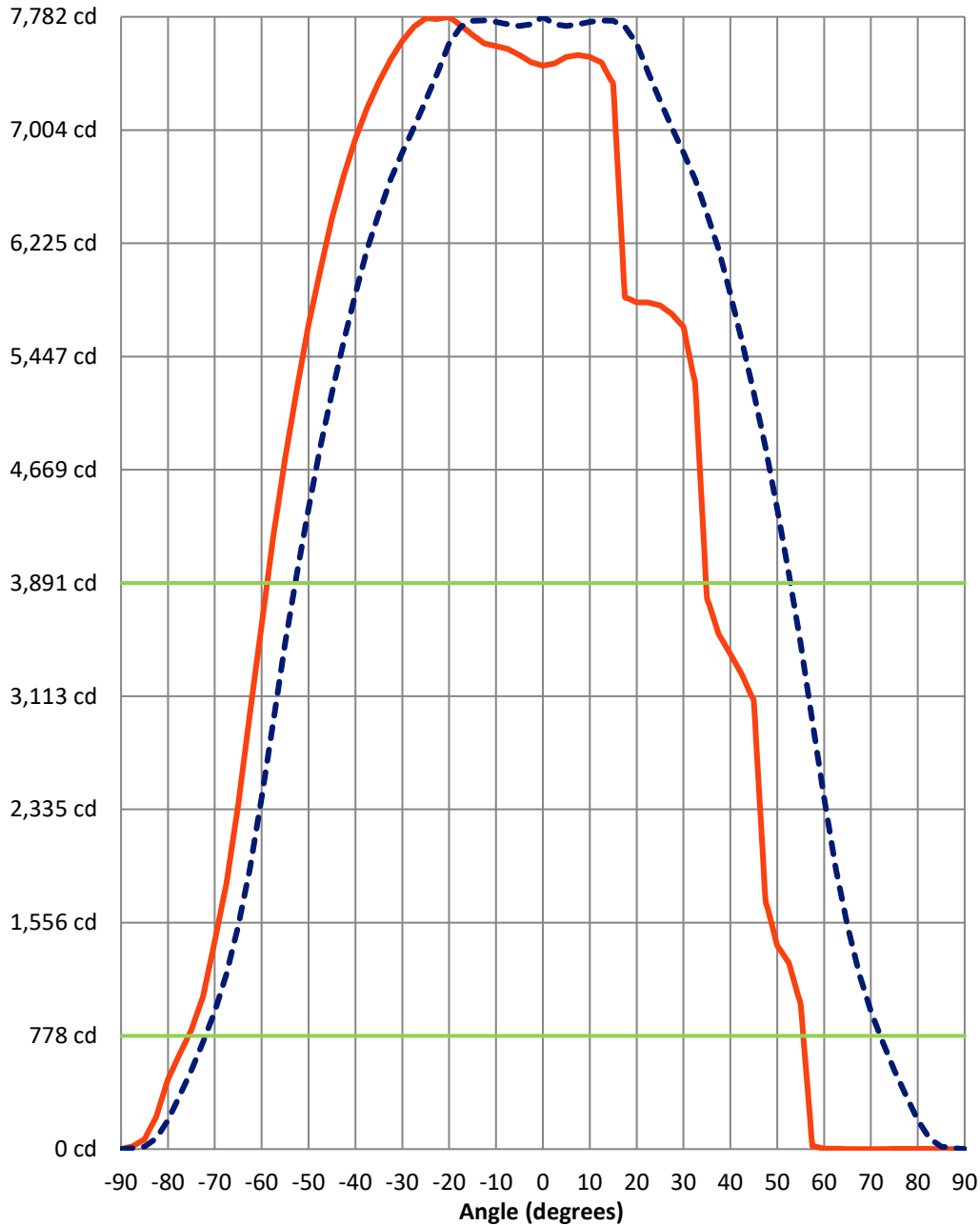
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CATALOG NUMBER: GFLD-SA4D-727-U-LAM-VSR-XX

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 105.6°
 V Angle: 93.7°
 Lumens: 14264.2
 Efficiency: 78.2%

Field:
 H Angle: 144°
 V Angle: 131.2°
 Lumens: 17884.4
 Efficiency: 98.0%

Spill:
 Lumens: 362.4
 Efficiency: 2.0%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through -20-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	0.2	0.3	0.4	0.6	0.7	0.9	0.9	0.9	0.8	0.7
85°	0.0	0.4	0.6	0.9	1.1	1.4	1.7	1.7	1.7	1.6	1.4
82.5°	0.0	0.5	0.9	1.3	1.7	2.1	2.6	2.6	2.5	2.1	1.7
80°	0.0	0.7	1.2	1.7	2.3	2.8	3.3	2.9	2.5	2.1	1.8
77.5°	0.0	0.9	1.4	2.1	2.8	3.3	3.3	3.0	2.6	2.2	1.8
75°	0.0	1.1	1.7	2.6	3.3	3.4	3.3	3.0	2.6	2.2	1.8
72.5°	0.0	1.3	2.0	3.0	3.5	3.6	3.4	3.0	2.6	2.3	1.9
70°	0.0	1.4	2.3	3.3	3.6	3.7	3.5	3.1	2.7	2.3	2.7
67.5°	0.0	1.6	2.6	3.5	3.8	3.8	3.9	3.1	2.8	3.7	3.8
65°	0.0	1.8	2.9	3.7	4.0	4.4	4.4	3.1	4.4	5.2	6.5
62.5°	0.0	2.0	3.2	3.8	4.2	5.5	5.2	4.4	6.2	9.1	14.5
60°	0.0	2.1	3.5	4.0	4.4	6.7	6.1	6.3	8.0	23.1	25.1
57.5°	0.0	2.3	3.7	4.2	5.6	8.0	11.4	8.9	22.6	39.2	45.5
55°	0.0	2.5	3.9	4.4	7.0	9.4	18.1	14.4	41.9	60.5	73.7
52.5°	0.0	2.6	4.1	4.6	8.5	12.1	26.0	36.4	62.9	94.9	106.9
50°	0.0	2.8	4.3	4.8	10.0	20.6	35.1	61.5	89.9	133.2	167.0
47.5°	0.0	3.0	4.5	5.2	11.6	29.8	47.2	87.8	129.6	175.4	228.4
45°	0.0	3.1	4.7	6.5	13.3	39.7	71.1	115.3	174.0	228.6	288.1
42.5°	0.0	3.3	4.9	7.7	15.0	50.1	95.7	150.2	219.2	280.5	356.8
40°	0.0	3.4	5.1	9.4	20.2	61.2	120.7	189.9	265.7	331.3	430.4
37.5°	0.0	3.6	5.3	11.3	28.8	72.8	146.3	229.7	314.5	392.4	507.3
35°	0.0	3.7	5.5	13.6	37.6	90.5	172.3	269.5	364.0	467.4	598.1
32.5°	0.0	3.8	5.8	16.0	46.5	111.0	200.4	309.2	414.2	542.8	708.5
30°	0.0	4.0	6.0	18.6	55.5	131.3	232.7	349.2	464.8	618.5	814.5
27.5°	0.0	4.1	6.2	21.4	66.6	151.4	264.2	390.9	520.5	694.0	915.8
25°	0.0	4.2	6.4	24.4	78.0	171.1	295.0	432.1	583.2	776.5	1012.4
22.5°	0.0	4.3	6.6	27.5	89.3	191.3	325.0	472.7	644.7	858.9	1110.1
20°	0.0	4.4	6.8	30.6	100.5	212.9	353.9	512.4	704.6	936.7	1205.5
17.5°	0.0	4.5	7.0	33.9	111.6	233.8	382.5	550.9	762.6	1009.7	1297.9
15°	0.0	4.6	7.2	37.1	122.3	253.9	410.0	586.8	818.4	1077.7	1386.6
12.5°	0.0	4.7	7.4	40.3	132.8	273.1	435.7	618.8	862.8	1140.8	1471.0
10°	0.0	4.8	7.6	43.5	142.7	291.2	459.5	648.2	896.0	1178.6	1539.8
7.5°	0.0	4.8	7.8	46.6	152.1	308.1	481.4	675.0	924.2	1207.9	1580.0
5°	0.0	4.9	8.0	49.5	160.9	323.7	501.4	699.2	947.8	1231.5	1612.6
2.5°	0.0	5.0	8.1	52.3	168.9	337.9	519.2	720.6	966.9	1249.7	1637.6
0°	0.0	5.0	8.3	54.8	176.1	350.5	535.0	739.3	981.9	1262.6	1654.7
-2.5°	0.0	5.3	9.6	58.4	182.8	358.5	542.8	750.2	987.3	1278.9	1665.9
-5°	0.0	5.6	10.9	61.7	188.5	364.8	548.5	758.2	989.1	1289.5	1669.4
-7.5°	0.0	5.8	12.1	64.6	193.1	369.4	552.2	763.1	987.7	1293.8	1665.7
-10°	0.0	6.1	13.3	67.1	196.7	372.3	553.8	765.0	983.5	1291.3	1655.1
-12.5°	0.0	6.3	14.5	69.3	199.0	373.5	553.5	763.8	976.7	1280.8	1637.0
-15°	0.0	6.5	15.5	71.0	200.2	372.9	551.3	759.3	968.9	1260.5	1610.6
-17.5°	0.0	6.7	16.5	72.2	200.0	370.7	547.3	750.1	959.5	1235.1	1576.3
-20°	0.0	6.8	17.5	73.0	198.6	366.8	541.1	737.0	946.1	1204.9	1534.0

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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	7.0	18.3	73.2	195.8	361.2	532.0	721.3	928.7	1170.0	1483.8
-25°	0.0	7.1	19.0	72.9	191.6	352.5	520.9	703.1	907.1	1130.8	1425.6
-27.5°	0.0	7.2	19.6	72.0	186.0	341.7	507.7	682.4	881.3	1092.7	1374.1
-30°	0.0	7.2	20.2	70.5	179.0	329.4	492.3	659.4	853.2	1060.6	1319.1
-32.5°	0.0	7.2	20.6	68.4	170.9	315.6	475.0	638.0	823.4	1023.4	1260.2
-35°	0.0	7.2	20.8	65.7	161.8	300.4	456.2	615.5	791.2	981.3	1197.8
-37.5°	0.0	7.2	21.0	62.5	151.9	285.1	436.0	590.7	756.6	934.3	1136.1
-40°	0.0	7.1	21.0	58.6	141.0	271.2	414.3	563.5	719.9	889.8	1075.2
-42.5°	0.0	7.0	20.9	54.4	132.8	256.4	391.0	534.0	684.3	842.9	1009.7
-45°	0.0	6.9	20.6	50.1	127.2	240.6	366.3	503.6	648.0	792.9	941.8
-47.5°	0.0	6.7	20.3	45.2	120.5	223.9	340.2	473.1	609.1	740.3	883.0
-50°	0.0	6.5	19.8	43.6	112.9	206.4	318.3	441.1	566.0	692.1	821.5
-52.5°	0.0	6.3	19.1	42.8	104.3	187.9	296.5	407.6	524.8	642.5	758.4
-55°	0.0	6.0	18.4	41.4	94.8	174.0	273.8	373.8	483.5	591.5	702.4
-57.5°	0.0	5.7	17.5	39.6	84.3	159.9	250.2	346.9	440.8	542.6	645.1
-60°	0.0	5.4	16.5	37.4	73.3	144.4	226.3	317.2	398.0	493.2	587.8
-62.5°	0.0	5.0	15.5	34.8	68.1	127.7	204.5	284.8	358.5	442.4	531.8
-65°	0.0	4.7	14.4	31.7	62.2	109.9	181.1	251.3	316.5	391.5	474.4
-67.5°	0.0	4.3	13.2	28.3	55.6	95.0	156.2	218.0	272.4	338.3	412.4
-70°	0.0	3.8	12.0	24.6	48.4	83.2	130.0	183.9	232.9	282.8	346.5
-72.5°	0.0	3.4	10.6	21.6	40.6	70.4	109.9	149.1	192.6	236.7	281.4
-75°	0.0	3.0	9.2	18.8	32.3	56.9	89.9	120.2	151.6	190.1	229.1
-77.5°	0.0	2.5	7.8	15.9	26.7	42.7	68.8	92.9	118.0	145.0	175.9
-80°	0.0	2.0	6.3	12.8	21.6	32.5	47.0	65.1	84.5	105.4	128.0
-82.5°	0.0	1.5	4.7	9.7	16.3	24.6	34.5	41.8	50.5	65.2	81.2
-85°	0.0	1.0	3.2	6.5	10.9	16.5	23.1	27.9	32.9	38.1	43.4
-87.5°	0.0	0.5	1.6	3.3	5.5	8.3	11.6	14.0	16.5	19.1	21.8
-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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 CATALOG NUMBER: GFLD-SA4D-727-U-LAM-VSR-XX

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°	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.3
85°	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	2.0	2.2	2.1	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	2.6	2.7	2.4	2.0	1.7	1.8	1.9	1.9	1.7	1.7	1.7
67.5°	3.2	2.8	2.4	2.3	2.3	2.5	2.5	2.1	1.7	1.7	1.8
65°	3.3	2.9	4.2	4.7	3.4	2.9	2.5	2.2	2.3	2.4	2.4
62.5°	4.9	6.2	7.9	14.0	10.5	3.0	5.5	6.4	4.7	3.9	4.2
60°	16.2	11.1	32.7	46.9	29.3	10.7	13.0	43.4	37.6	6.9	23.5
57.5°	34.1	46.8	86.2	87.8	60.7	41.9	121.8	140.8	106.5	62.1	95.1
55°	75.2	115.4	143.0	132.3	144.5	218.9	260.1	233.7	196.7	302.6	386.6
52.5°	146.7	187.9	197.2	226.4	324.1	372.4	356.8	381.6	494.9	614.6	640.6
50°	216.6	250.3	276.5	399.8	476.2	481.0	516.5	628.8	779.8	853.1	835.4
47.5°	284.1	319.0	441.2	559.6	594.0	641.0	729.7	946.3	1106.3	1109.4	1091.3
45°	355.6	448.7	604.6	681.8	737.5	828.5	1042.8	1341.5	1357.1	1400.4	1667.4
42.5°	432.0	595.1	731.1	811.5	901.4	1071.2	1357.2	1553.2	1620.6	1810.6	2025.3
40°	555.8	736.5	855.4	958.1	1073.8	1321.4	1634.7	1818.3	1873.1	2037.6	2199.0
37.5°	681.3	854.6	987.8	1111.7	1272.1	1606.4	1968.8	2120.2	2147.9	2178.0	2535.7
35°	802.2	975.8	1135.2	1297.3	1494.0	1975.2	2292.0	2434.4	2430.0	2633.0	3007.5
32.5°	915.3	1099.6	1287.7	1504.6	1829.1	2322.1	2639.0	2724.3	2853.6	3149.0	3660.2
30°	1028.1	1237.7	1453.7	1712.1	2123.2	2550.5	2912.2	3049.4	3271.0	3608.2	3980.3
27.5°	1144.4	1379.3	1640.5	1943.3	2355.3	2748.1	3057.1	3384.9	3600.1	3902.3	4167.0
25°	1260.2	1529.2	1825.0	2145.4	2521.2	2887.3	3206.9	3585.4	3816.6	4060.2	4307.1
22.5°	1381.6	1681.2	2015.2	2305.6	2661.0	3005.6	3386.1	3796.7	4097.2	4252.1	4417.8
20°	1508.6	1845.6	2201.9	2523.6	2799.0	3115.5	3566.0	4064.8	4452.9	4627.1	4649.8
17.5°	1633.7	2005.0	2388.0	2736.3	3033.4	3315.1	3754.9	4386.2	4868.7	5030.6	5102.6
15°	1755.7	2158.2	2573.2	2943.3	3269.4	3613.9	4083.6	4725.5	5277.1	5456.4	5569.7
12.5°	1873.5	2304.4	2755.3	3143.4	3505.7	3892.1	4382.0	4969.6	5473.1	5819.9	6027.8
10°	1985.7	2442.3	2932.0	3335.5	3739.2	4150.0	4629.0	5151.5	5561.4	5895.8	6191.0
7.5°	2042.3	2532.5	3083.9	3518.3	3966.9	4388.4	4831.2	5279.7	5624.9	5952.9	6238.3
5°	2080.8	2569.6	3131.3	3582.0	4087.8	4547.5	4977.3	5363.9	5666.4	5991.5	6270.3
2.5°	2108.3	2593.6	3163.4	3616.9	4133.3	4596.4	5019.4	5392.1	5700.6	6019.1	6304.6
0°	2124.9	2605.0	3179.8	3638.4	4161.7	4628.5	5043.9	5402.7	5723.4	6032.4	6339.7
-2.5°	2134.3	2639.9	3190.7	3693.5	4189.2	4656.2	5078.1	5428.4	5763.5	6057.5	6365.6
-5°	2133.1	2660.7	3187.9	3730.6	4202.3	4667.1	5095.2	5440.0	5785.2	6076.3	6376.2
-7.5°	2121.5	2665.5	3173.5	3742.2	4202.8	4663.4	5087.7	5445.6	5784.8	6093.6	6377.2
-10°	2100.9	2646.7	3160.2	3712.2	4186.8	4644.5	5064.7	5433.4	5771.3	6090.1	6371.6
-12.5°	2076.5	2607.8	3132.5	3668.9	4154.0	4609.2	5029.9	5402.3	5746.1	6064.0	6358.9
-15°	2040.0	2556.1	3087.0	3614.0	4104.1	4557.8	4984.6	5351.5	5707.1	6018.5	6321.3
-17.5°	1990.8	2492.1	3023.0	3548.8	4037.0	4490.8	4926.6	5284.4	5638.4	5960.1	6252.3
-20°	1929.0	2416.2	2939.8	3474.8	3951.7	4400.7	4822.9	5197.7	5549.3	5876.6	6183.6



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1854.2	2329.0	2839.6	3374.8	3845.3	4289.2	4706.4	5087.2	5451.6	5768.1	6095.2
-25°	1779.3	2236.8	2728.9	3236.5	3721.7	4163.7	4582.1	4953.1	5325.5	5654.8	5965.5
-27.5°	1707.5	2129.9	2600.3	3084.2	3581.6	4021.5	4436.2	4807.5	5169.0	5529.0	5828.1
-30°	1626.9	2006.2	2459.4	2921.6	3406.5	3854.4	4272.1	4657.4	5001.4	5356.9	5678.1
-32.5°	1538.0	1875.0	2310.6	2755.2	3212.4	3670.3	4084.1	4466.8	4824.7	5160.9	5498.1
-35°	1451.1	1769.0	2152.9	2576.6	3006.8	3456.0	3870.1	4249.1	4620.6	4953.6	5275.9
-37.5°	1372.9	1654.2	1985.3	2390.0	2801.2	3226.0	3647.2	4014.1	4367.5	4733.7	5048.0
-40°	1288.3	1531.0	1840.1	2197.8	2585.4	2989.4	3392.7	3772.2	4104.5	4466.4	4812.0
-42.5°	1199.7	1430.6	1696.9	1994.4	2360.3	2741.2	3130.4	3501.7	3846.8	4188.2	4530.7
-45°	1122.1	1324.4	1551.2	1823.0	2120.9	2479.2	2847.8	3217.8	3549.0	3874.3	4212.5
-47.5°	1039.6	1217.6	1427.3	1644.5	1903.3	2202.9	2549.6	2890.9	3229.8	3539.4	3838.7
-50°	957.4	1121.5	1293.8	1489.3	1702.9	1945.7	2233.6	2551.0	2860.6	3178.4	3474.9
-52.5°	886.6	1020.4	1176.1	1339.2	1522.1	1723.0	1953.6	2214.3	2495.9	2765.7	3061.4
-55°	813.1	933.7	1059.4	1203.0	1355.2	1524.8	1713.8	1932.9	2147.8	2397.2	2638.7
-57.5°	746.1	847.8	955.0	1073.6	1205.8	1341.5	1506.7	1677.1	1872.1	2065.9	2257.2
-60°	682.9	766.0	856.9	957.4	1063.6	1184.4	1307.7	1454.0	1611.1	1765.8	1928.1
-62.5°	619.2	689.1	763.2	846.6	939.3	1030.6	1135.8	1248.6	1364.1	1495.3	1623.2
-65°	553.6	610.2	673.0	742.2	816.1	893.9	974.8	1058.3	1156.5	1252.6	1345.7
-67.5°	484.1	532.5	583.3	637.7	699.8	760.8	821.8	892.3	964.6	1035.8	1109.5
-70°	406.9	452.6	495.0	539.1	585.2	633.0	685.1	736.8	787.9	841.2	900.3
-72.5°	328.6	370.5	407.8	440.5	478.3	518.0	556.1	592.4	630.9	671.3	711.4
-75°	262.1	289.8	323.1	353.5	383.6	411.6	436.7	467.5	499.6	529.0	553.2
-77.5°	204.6	229.8	252.5	272.9	296.9	324.9	349.4	370.3	390.7	413.0	436.6
-80°	148.8	169.7	190.5	209.4	223.2	239.0	257.7	279.1	297.7	312.8	326.6
-82.5°	96.1	111.2	126.6	142.4	148.7	153.1	157.2	164.6	176.1	187.5	198.3
-85°	47.9	52.3	61.7	71.4	74.7	77.0	78.6	79.5	83.4	87.0	90.1
-87.5°	24.0	26.2	28.3	30.5	29.4	27.8	25.8	23.5	23.0	22.3	21.4
-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: P645477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-LAM-VSR-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°	1.4	1.4	1.5	1.5	1.5	1.2	0.8	0.4	0.0	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.2	0.8
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.1
65°	2.3	2.3	2.4	2.3	2.1	2.0	2.1	2.0	1.8	1.5	1.0
62.5°	4.1	4.7	3.7	3.7	3.6	3.5	3.3	3.2	3.0	2.8	2.9
60°	26.0	15.4	9.0	10.5	9.4	6.3	8.0	9.4	9.5	8.6	7.6
57.5°	144.4	107.9	79.9	190.7	191.2	91.3	110.0	172.9	142.4	46.8	43.4
55°	401.7	480.5	632.4	600.7	610.4	702.1	766.7	678.7	665.4	709.0	819.0
52.5°	721.7	796.8	847.9	895.7	953.9	1016.4	1080.8	1121.8	1160.1	1200.9	1225.2
50°	921.6	1027.4	1100.1	1073.4	1223.9	1285.5	1223.0	1278.9	1347.1	1365.7	1374.5
47.5°	1360.9	1516.0	1546.8	1646.8	1736.6	1734.7	1658.4	1662.8	1865.8	2044.8	2132.8
45°	1955.7	1961.0	2058.6	2235.1	2361.3	2321.6	2428.1	2670.1	2750.7	2828.6	2892.5
42.5°	2187.5	2283.6	2439.2	2595.3	2689.4	2771.0	2849.8	2938.8	3043.4	3128.2	3196.1
40°	2411.9	2489.3	2648.7	2774.5	2852.4	2928.6	3020.4	3119.0	3214.7	3289.3	3340.1
37.5°	2757.3	2817.3	2856.1	2972.8	3120.2	3052.2	3226.5	3351.5	3408.6	3484.3	3491.1
35°	3279.9	3240.0	3188.2	3652.8	3680.6	3523.7	3686.7	3880.5	3778.4	3991.0	4105.3
32.5°	3743.2	3737.2	4142.6	4386.8	4246.3	4361.0	4736.8	4720.1	4970.5	5086.7	5053.6
30°	4179.6	4328.5	4563.0	4744.8	4769.2	4950.0	5116.9	5263.1	5414.3	5549.8	5559.1
27.5°	4401.2	4595.5	4754.7	4859.9	4977.3	5129.4	5280.9	5445.6	5574.1	5659.1	5679.9
25°	4535.2	4733.7	4854.2	4967.5	5097.1	5228.4	5398.0	5577.2	5680.5	5732.9	5749.7
22.5°	4653.3	4831.7	4961.3	5053.2	5192.7	5334.0	5492.0	5643.8	5756.0	5778.9	5787.2
20°	4767.1	4938.5	5154.9	5290.2	5283.4	5442.6	5594.9	5715.6	5809.1	5808.6	5810.8
17.5°	5096.1	5157.3	5550.0	5848.1	5700.5	5622.6	6041.6	6049.5	6074.3	6024.9	5917.7
15°	5583.3	5694.7	6177.1	6500.3	6398.5	6393.2	6998.2	6848.2	6977.3	6943.5	7088.9
12.5°	6099.3	6231.2	6591.7	6909.1	7060.2	7097.4	7299.6	7488.9	7527.8	7512.5	7483.9
10°	6450.9	6638.7	6783.5	6976.2	7128.7	7284.3	7401.4	7537.3	7581.9	7556.1	7519.7
7.5°	6496.6	6682.3	6852.3	7021.4	7166.6	7292.0	7413.5	7524.2	7569.5	7554.5	7529.5
5°	6525.7	6694.0	6858.7	7030.2	7169.2	7285.3	7406.4	7518.5	7545.3	7527.3	7502.9
2.5°	6543.7	6699.4	6858.2	7029.0	7155.2	7265.7	7388.3	7507.9	7507.8	7499.9	7485.6
0°	6552.4	6708.6	6893.0	7047.5	7188.7	7293.4	7414.6	7530.9	7522.6	7501.0	7476.1
-2.5°	6571.1	6729.3	6917.5	7045.5	7204.7	7300.6	7426.0	7526.7	7522.8	7512.2	7499.8
-5°	6587.7	6765.7	6941.7	7076.4	7236.0	7361.3	7485.9	7564.7	7568.9	7554.1	7533.3
-7.5°	6597.9	6795.1	6963.1	7098.3	7253.1	7398.9	7525.3	7607.9	7609.7	7590.1	7565.2
-10°	6594.5	6802.7	6975.6	7115.4	7273.9	7417.9	7550.0	7654.8	7651.4	7632.7	7611.5
-12.5°	6582.0	6790.0	6967.6	7107.8	7287.8	7436.0	7584.6	7688.8	7694.4	7680.4	7657.4
-15°	6554.7	6769.4	6942.1	7095.2	7271.6	7444.9	7597.6	7712.6	7733.1	7721.6	7703.5
-17.5°	6500.6	6727.2	6910.3	7075.4	7244.6	7429.3	7602.9	7728.7	7756.7	7752.1	7737.1
-20°	6429.5	6663.4	6849.3	7022.2	7206.4	7396.6	7598.7	7713.6	7754.4	7756.9	7746.7

Classified

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

Scaled Data Report



REPORT NUMBER: P645477 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4D-727-U-LAM-VSR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6349.7	6578.6	6775.9	6945.8	7145.6	7338.2	7521.2	7655.8	7724.1	7736.8	7737.7
-25°	6254.0	6489.3	6685.2	6866.2	7052.1	7250.9	7435.9	7586.1	7655.4	7688.5	7698.8
-27.5°	6118.8	6362.0	6554.8	6746.1	6935.2	7140.6	7335.0	7498.3	7554.6	7600.2	7618.4
-30°	5960.4	6200.9	6397.6	6572.4	6788.7	6998.1	7198.7	7341.3	7426.3	7478.4	7506.8
-32.5°	5778.3	6021.0	6227.4	6410.1	6615.7	6825.0	7013.8	7164.1	7281.3	7341.4	7371.8
-35°	5580.8	5828.6	6044.7	6237.1	6430.6	6630.3	6825.8	6983.1	7116.6	7168.2	7206.4
-37.5°	5342.6	5616.0	5837.6	6035.9	6219.8	6407.5	6611.1	6791.0	6920.6	6970.7	7010.9
-40°	5098.4	5362.6	5586.1	5797.7	5979.5	6184.3	6380.5	6569.0	6681.5	6739.9	6785.4
-42.5°	4840.6	5079.3	5291.7	5497.3	5699.8	5910.7	6106.7	6302.5	6399.9	6470.3	6526.1
-45°	4542.9	4765.0	4971.5	5163.8	5372.5	5579.9	5776.1	5949.1	6064.9	6156.6	6227.9
-47.5°	4146.0	4416.6	4623.9	4806.9	5013.8	5213.9	5404.0	5566.7	5693.7	5800.9	5883.7
-50°	3743.0	4002.7	4236.5	4442.1	4634.0	4819.1	5000.0	5159.2	5293.6	5409.8	5493.6
-52.5°	3346.1	3589.4	3821.4	4033.6	4218.2	4392.8	4558.4	4718.6	4860.3	4984.5	5065.6
-55°	2897.7	3149.7	3379.2	3577.1	3761.5	3934.1	4097.6	4249.4	4389.0	4515.4	4593.2
-57.5°	2476.9	2698.1	2911.6	3094.3	3268.3	3432.7	3587.7	3733.1	3867.3	3986.4	4061.3
-60°	2090.2	2251.4	2435.2	2603.8	2758.1	2898.0	3042.6	3178.2	3301.6	3406.2	3476.1
-62.5°	1748.4	1882.0	2014.7	2142.9	2268.0	2393.7	2514.8	2627.2	2730.3	2816.1	2877.3
-65°	1443.8	1551.2	1647.1	1738.1	1824.7	1923.9	2015.9	2102.5	2182.6	2248.4	2295.0
-67.5°	1188.9	1264.3	1330.7	1393.0	1461.4	1531.4	1597.1	1654.4	1703.3	1742.3	1773.1
-70°	958.7	1014.2	1064.3	1114.0	1163.9	1209.4	1252.9	1295.0	1335.0	1367.6	1392.1
-72.5°	750.8	788.7	822.8	861.1	897.0	931.6	961.7	985.9	1004.8	1023.1	1039.2
-75°	572.4	600.9	639.3	671.8	698.6	722.3	744.1	763.4	780.5	795.5	808.8
-77.5°	460.4	484.6	509.1	532.8	555.7	572.7	588.5	604.3	619.8	633.2	645.0
-80°	341.2	359.3	378.2	397.2	416.1	425.5	433.0	440.0	446.1	454.1	461.5
-82.5°	208.6	218.8	229.4	240.0	250.6	253.3	254.2	254.0	252.6	249.7	245.3
-85°	92.8	93.4	93.1	92.0	90.3	86.6	82.1	76.9	71.1	70.2	69.1
-87.5°	20.4	20.0	19.4	18.8	18.0	18.0	18.0	17.8	17.7	18.3	18.8
-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: P645477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-LAM-VSR-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
85°	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	1.6	1.6
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	0.9	0.0	0.9	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	0.9	0.0	0.9	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	0.6	0.1	0.0	0.0	0.0	0.1	0.6	1.1	1.5	1.7	1.7
65°	0.6	0.1	0.0	0.0	0.0	0.1	0.6	1.0	1.5	1.8	2.0
62.5°	3.0	3.2	3.3	3.3	3.3	3.2	3.0	2.9	2.8	3.0	3.2
60°	6.0	3.9	3.3	3.3	3.3	3.9	6.0	7.6	8.6	9.5	9.4
57.5°	36.7	27.4	23.3	21.6	23.3	27.4	36.7	43.4	46.8	142.4	172.9
55°	897.8	943.5	977.7	993.5	977.7	943.5	897.8	819.0	709.0	665.4	678.7
52.5°	1246.6	1266.5	1278.0	1277.6	1278.0	1266.5	1246.6	1225.2	1200.9	1160.1	1121.8
50°	1389.5	1399.2	1402.6	1400.5	1402.6	1399.2	1389.5	1374.5	1365.7	1347.1	1278.9
47.5°	2052.4	1874.8	1744.2	1712.9	1744.2	1874.8	2052.4	2132.8	2044.8	1865.8	1662.8
45°	2923.1	2990.5	3057.6	3078.5	3057.6	2990.5	2923.1	2892.5	2828.6	2750.7	2670.1
42.5°	3224.7	3246.7	3259.1	3259.6	3259.1	3246.7	3224.7	3196.1	3128.2	3043.4	2938.8
40°	3368.6	3389.3	3401.4	3402.5	3401.4	3389.3	3368.6	3340.1	3289.3	3214.7	3119.0
37.5°	3499.3	3517.0	3528.6	3540.4	3528.6	3517.0	3499.3	3491.1	3484.3	3408.6	3351.5
35°	4089.9	3956.2	3763.8	3792.9	3763.8	3956.2	4089.9	4105.3	3991.0	3778.4	3880.5
32.5°	5105.4	5161.7	5196.8	5256.5	5196.8	5161.7	5105.4	5053.6	5086.7	4970.5	4720.1
30°	5573.9	5592.5	5620.7	5650.3	5620.7	5592.5	5573.9	5559.1	5549.8	5414.3	5263.1
27.5°	5690.9	5710.1	5727.2	5740.0	5727.2	5710.1	5690.9	5679.9	5659.1	5574.1	5445.6
25°	5752.1	5764.0	5782.2	5798.1	5782.2	5764.0	5752.1	5749.7	5732.9	5680.5	5577.2
22.5°	5782.4	5783.7	5797.9	5818.1	5797.9	5783.7	5782.4	5787.2	5778.9	5756.0	5643.8
20°	5803.3	5792.0	5806.7	5819.7	5806.7	5792.0	5803.3	5810.8	5808.6	5809.1	5715.6
17.5°	6068.9	5917.4	5855.1	5856.3	5855.1	5917.4	6068.9	5917.7	6024.9	6074.3	6049.5
15°	6925.8	6982.6	7200.5	7318.3	7200.5	6982.6	6925.8	7088.9	6943.5	6977.3	6848.2
12.5°	7478.7	7458.4	7432.5	7467.8	7432.5	7458.4	7478.7	7483.9	7512.5	7527.8	7488.9
10°	7504.2	7501.9	7455.8	7506.0	7455.8	7501.9	7504.2	7519.7	7556.1	7581.9	7537.3
7.5°	7488.6	7489.9	7470.3	7519.3	7470.3	7489.9	7488.6	7529.5	7554.5	7569.5	7524.2
5°	7498.9	7465.2	7478.0	7506.0	7478.0	7465.2	7498.9	7502.9	7527.3	7545.3	7518.5
2.5°	7469.9	7466.4	7441.5	7461.2	7441.5	7466.4	7469.9	7485.6	7499.9	7507.8	7507.9
0°	7447.9	7429.6	7429.6	7446.2	7429.6	7429.6	7447.9	7476.1	7501.0	7522.6	7530.9
-2.5°	7487.1	7483.3	7480.9	7469.5	7480.9	7483.3	7487.1	7499.8	7512.2	7522.8	7526.7
-5°	7519.5	7509.6	7482.4	7519.3	7482.4	7509.6	7519.5	7533.3	7554.1	7568.9	7564.7
-7.5°	7554.2	7529.0	7503.2	7560.8	7503.2	7529.0	7554.2	7565.2	7590.1	7609.7	7607.9
-10°	7585.9	7549.5	7524.3	7580.8	7524.3	7549.5	7585.9	7611.5	7632.7	7651.4	7654.8
-12.5°	7627.9	7585.2	7568.5	7599.0	7568.5	7585.2	7627.9	7657.4	7680.4	7694.4	7688.8
-15°	7672.6	7643.1	7639.1	7657.2	7639.1	7643.1	7672.6	7703.5	7721.6	7733.1	7712.6
-17.5°	7711.9	7691.2	7701.4	7722.0	7701.4	7691.2	7711.9	7737.1	7752.1	7756.7	7728.7
-20°	7730.6	7719.0	7730.6	7781.8	7730.6	7719.0	7730.6	7746.7	7756.9	7754.4	7713.6



REPORT NUMBER: P645477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-LAM-VSR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	7729.1	7729.8	7750.1	7766.8	7750.1	7729.8	7729.1	7737.7	7736.8	7724.1	7655.8
-25°	7699.5	7715.1	7738.4	7771.8	7738.4	7715.1	7699.5	7698.8	7688.5	7655.4	7586.1
-27.5°	7628.4	7654.2	7678.6	7713.7	7678.6	7654.2	7628.4	7618.4	7600.2	7554.6	7498.3
-30°	7525.6	7556.3	7578.0	7615.7	7578.0	7556.3	7525.6	7506.8	7478.4	7426.3	7341.3
-32.5°	7400.4	7435.2	7460.9	7487.7	7460.9	7435.2	7400.4	7371.8	7341.4	7281.3	7164.1
-35°	7244.0	7281.4	7308.7	7333.2	7308.7	7281.4	7244.0	7206.4	7168.2	7116.6	6983.1
-37.5°	7056.0	7096.4	7127.5	7155.5	7127.5	7096.4	7056.0	7010.9	6970.7	6920.6	6791.0
-40°	6837.0	6878.4	6911.6	6942.8	6911.6	6878.4	6837.0	6785.4	6739.9	6681.5	6569.0
-42.5°	6581.0	6622.8	6657.1	6688.6	6657.1	6622.8	6581.0	6526.1	6470.3	6399.9	6302.5
-45°	6285.3	6328.3	6364.6	6397.9	6364.6	6328.3	6285.3	6227.9	6156.6	6064.9	5949.1
-47.5°	5944.7	5990.7	6021.8	6037.4	6021.8	5990.7	5944.7	5883.7	5800.9	5693.7	5566.7
-50°	5554.4	5600.4	5637.7	5665.2	5637.7	5600.4	5554.4	5493.6	5409.8	5293.6	5159.2
-52.5°	5124.8	5168.5	5200.6	5220.0	5200.6	5168.5	5124.8	5065.6	4984.5	4860.3	4718.6
-55°	4654.4	4700.2	4730.6	4744.8	4730.6	4700.2	4654.4	4593.2	4515.4	4389.0	4249.4
-57.5°	4120.7	4164.3	4196.6	4214.9	4196.6	4164.3	4120.7	4061.3	3986.4	3867.3	3733.1
-60°	3530.5	3569.4	3593.9	3603.5	3593.9	3569.4	3530.5	3476.1	3406.2	3301.6	3178.2
-62.5°	2926.6	2963.5	2986.5	2995.4	2986.5	2963.5	2926.6	2877.3	2816.1	2730.3	2627.2
-65°	2329.8	2352.9	2365.6	2367.4	2365.6	2352.9	2329.8	2295.0	2248.4	2182.6	2102.5
-67.5°	1797.4	1814.9	1825.6	1829.2	1825.6	1814.9	1797.4	1773.1	1742.3	1703.3	1654.4
-70°	1410.3	1422.5	1429.2	1430.4	1429.2	1422.5	1410.3	1392.1	1367.6	1335.0	1295.0
-72.5°	1051.4	1060.2	1057.1	1050.0	1057.1	1060.2	1051.4	1039.2	1023.1	1004.8	985.9
-75°	820.2	829.8	825.8	819.0	825.8	829.8	820.2	808.8	795.5	780.5	763.4
-77.5°	655.3	664.0	659.7	652.9	659.7	664.0	655.3	645.0	633.2	619.8	604.3
-80°	467.9	473.1	476.7	478.5	476.7	473.1	467.9	461.5	454.1	446.1	440.0
-82.5°	239.6	232.5	228.0	222.6	228.0	232.5	239.6	245.3	249.7	252.6	254.0
-85°	67.8	66.2	67.2	68.1	67.2	66.2	67.8	69.1	70.2	71.1	76.9
-87.5°	19.3	19.8	19.9	19.9	19.9	19.8	19.3	18.8	18.3	17.7	17.8
-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: P645477 (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°	0.8	1.2	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2
85°	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.7	2.1
65°	2.1	2.0	2.1	2.3	2.4	2.3	2.3	2.4	2.4	2.3	2.2
62.5°	3.3	3.5	3.6	3.7	3.7	4.7	4.1	4.2	3.9	4.7	6.4
60°	8.0	6.3	9.4	10.5	9.0	15.4	26.0	23.5	6.9	37.6	43.4
57.5°	110.0	91.3	191.2	190.7	79.9	107.9	144.4	95.1	62.1	106.5	140.8
55°	766.7	702.1	610.4	600.7	632.4	480.5	401.7	386.6	302.6	196.7	233.7
52.5°	1080.8	1016.4	953.9	895.7	847.9	796.8	721.7	640.6	614.6	494.9	381.6
50°	1223.0	1285.5	1223.9	1073.4	1100.1	1027.4	921.6	835.4	853.1	779.8	628.8
47.5°	1658.4	1734.7	1736.6	1646.8	1546.8	1516.0	1360.9	1091.3	1109.4	1106.3	946.3
45°	2428.1	2321.6	2361.3	2235.1	2058.6	1961.0	1955.7	1667.4	1400.4	1357.1	1341.5
42.5°	2849.8	2771.0	2689.4	2595.3	2439.2	2283.6	2187.5	2025.3	1810.6	1620.6	1553.2
40°	3020.4	2928.6	2852.4	2774.5	2648.7	2489.3	2411.9	2199.0	2037.6	1873.1	1818.3
37.5°	3226.5	3052.2	3120.2	2972.8	2856.1	2817.3	2757.3	2535.7	2178.0	2147.9	2120.2
35°	3686.7	3523.7	3680.6	3652.8	3188.2	3240.0	3279.9	3007.5	2633.0	2430.0	2434.4
32.5°	4736.8	4361.0	4246.3	4386.8	4142.6	3737.2	3743.2	3660.2	3149.0	2853.6	2724.3
30°	5116.9	4950.0	4769.2	4744.8	4563.0	4328.5	4179.6	3980.3	3608.2	3271.0	3049.4
27.5°	5280.9	5129.4	4977.3	4859.9	4754.7	4595.5	4401.2	4167.0	3902.3	3600.1	3384.9
25°	5398.0	5228.4	5097.1	4967.5	4854.2	4733.7	4535.2	4307.1	4060.2	3816.6	3585.4
22.5°	5492.0	5334.0	5192.7	5053.2	4961.3	4831.7	4653.3	4417.8	4252.1	4097.2	3796.7
20°	5594.9	5442.6	5283.4	5290.2	5154.9	4938.5	4767.1	4649.8	4627.1	4452.9	4064.8
17.5°	6041.6	5622.6	5700.5	5848.1	5550.0	5157.3	5096.1	5102.6	5030.6	4868.7	4386.2
15°	6998.2	6393.2	6398.5	6500.3	6177.1	5694.7	5583.3	5569.7	5456.4	5277.1	4725.5
12.5°	7299.6	7097.4	7060.2	6909.1	6591.7	6231.2	6099.3	6027.8	5819.9	5473.1	4969.6
10°	7401.4	7284.3	7128.7	6976.2	6783.5	6638.7	6450.9	6191.0	5895.8	5561.4	5151.5
7.5°	7413.5	7292.0	7166.6	7021.4	6852.3	6682.3	6496.6	6238.3	5952.9	5624.9	5279.7
5°	7406.4	7285.3	7169.2	7030.2	6858.7	6694.0	6525.7	6270.3	5991.5	5666.4	5363.9
2.5°	7388.3	7265.7	7155.2	7029.0	6858.2	6699.4	6543.7	6304.6	6019.1	5700.6	5392.1
0°	7414.6	7293.4	7188.7	7047.5	6893.0	6708.6	6552.4	6339.7	6032.4	5723.4	5402.7
-2.5°	7426.0	7300.6	7204.7	7045.5	6917.5	6729.3	6571.1	6365.6	6057.5	5763.5	5428.4
-5°	7485.9	7361.3	7236.0	7076.4	6941.7	6765.7	6587.7	6376.2	6076.3	5785.2	5440.0
-7.5°	7525.3	7398.9	7253.1	7098.3	6963.1	6795.1	6597.9	6377.2	6093.6	5784.8	5445.6
-10°	7550.0	7417.9	7273.9	7115.4	6975.6	6802.7	6594.5	6371.6	6090.1	5771.3	5433.4
-12.5°	7584.6	7436.0	7287.8	7107.8	6967.6	6790.0	6582.0	6358.9	6064.0	5746.1	5402.3
-15°	7597.6	7444.9	7271.6	7095.2	6942.1	6769.4	6554.7	6321.3	6018.5	5707.1	5351.5
-17.5°	7602.9	7429.3	7244.6	7075.4	6910.3	6727.2	6500.6	6252.3	5960.1	5638.4	5284.4
-20°	7598.7	7396.6	7206.4	7022.2	6849.3	6663.4	6429.5	6183.6	5876.6	5549.3	5197.7



REPORT NUMBER: P645477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-LAM-VSR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	7521.2	7338.2	7145.6	6945.8	6775.9	6578.6	6349.7	6095.2	5768.1	5451.6	5087.2
-25°	7435.9	7250.9	7052.1	6866.2	6685.2	6489.3	6254.0	5965.5	5654.8	5325.5	4953.1
-27.5°	7335.0	7140.6	6935.2	6746.1	6554.8	6362.0	6118.8	5828.1	5529.0	5169.0	4807.5
-30°	7198.7	6998.1	6788.7	6572.4	6397.6	6200.9	5960.4	5678.1	5356.9	5001.4	4657.4
-32.5°	7013.8	6825.0	6615.7	6410.1	6227.4	6021.0	5778.3	5498.1	5160.9	4824.7	4466.8
-35°	6825.8	6630.3	6430.6	6237.1	6044.7	5828.6	5580.8	5275.9	4953.6	4620.6	4249.1
-37.5°	6611.1	6407.5	6219.8	6035.9	5837.6	5616.0	5342.6	5048.0	4733.7	4367.5	4014.1
-40°	6380.5	6184.3	5979.5	5797.7	5586.1	5362.6	5098.4	4812.0	4466.4	4104.5	3772.2
-42.5°	6106.7	5910.7	5699.8	5497.3	5291.7	5079.3	4840.6	4530.7	4188.2	3846.8	3501.7
-45°	5776.1	5579.9	5372.5	5163.8	4971.5	4765.0	4542.9	4212.5	3874.3	3549.0	3217.8
-47.5°	5404.0	5213.9	5013.8	4806.9	4623.9	4416.6	4146.0	3838.7	3539.4	3229.8	2890.9
-50°	5000.0	4819.1	4634.0	4442.1	4236.5	4002.7	3743.0	3474.9	3178.4	2860.6	2551.0
-52.5°	4558.4	4392.8	4218.2	4033.6	3821.4	3589.4	3346.1	3061.4	2765.7	2495.9	2214.3
-55°	4097.6	3934.1	3761.5	3577.1	3379.2	3149.7	2897.7	2638.7	2397.2	2147.8	1932.9
-57.5°	3587.7	3432.7	3268.3	3094.3	2911.6	2698.1	2476.9	2257.2	2065.9	1872.1	1677.1
-60°	3042.6	2898.0	2758.1	2603.8	2435.2	2251.4	2090.2	1928.1	1765.8	1611.1	1454.0
-62.5°	2514.8	2393.7	2268.0	2142.9	2014.7	1882.0	1748.4	1623.2	1495.3	1364.1	1248.6
-65°	2015.9	1923.9	1824.7	1738.1	1647.1	1551.2	1443.8	1345.7	1252.6	1156.5	1058.3
-67.5°	1597.1	1531.4	1461.4	1393.0	1330.7	1264.3	1188.9	1109.5	1035.8	964.6	892.3
-70°	1252.9	1209.4	1163.9	1114.0	1064.3	1014.2	958.7	900.3	841.2	787.9	736.8
-72.5°	961.7	931.6	897.0	861.1	822.8	788.7	750.8	711.4	671.3	630.9	592.4
-75°	744.1	722.3	698.6	671.8	639.3	600.9	572.4	553.2	529.0	499.6	467.5
-77.5°	588.5	572.7	555.7	532.8	509.1	484.6	460.4	436.6	413.0	390.7	370.3
-80°	433.0	425.5	416.1	397.2	378.2	359.3	341.2	326.6	312.8	297.7	279.1
-82.5°	254.2	253.3	250.6	240.0	229.4	218.8	208.6	198.3	187.5	176.1	164.6
-85°	82.1	86.6	90.3	92.0	93.1	93.4	92.8	90.1	87.0	83.4	79.5
-87.5°	18.0	18.0	18.0	18.8	19.4	20.0	20.4	21.4	22.3	23.0	23.5
-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: P645477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-727-U-LAM-VSR-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°	1.1	1.1	1.0	1.0	0.9	0.8	0.8	0.7	0.8	0.9	0.9
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.4	1.6	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.6
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	2.1	2.5	2.9
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	2.2	2.6	3.0
75°	1.7	1.7	1.7	1.8	1.8	1.7	1.7	1.8	2.2	2.6	3.0
72.5°	1.7	1.7	1.7	1.9	2.1	2.2	2.0	1.9	2.3	2.6	3.0
70°	1.9	1.8	1.7	2.0	2.4	2.7	2.6	2.7	2.3	2.7	3.1
67.5°	2.5	2.5	2.3	2.3	2.4	2.8	3.2	3.8	3.7	2.8	3.1
65°	2.5	2.9	3.4	4.7	4.2	2.9	3.3	6.5	5.2	4.4	3.1
62.5°	5.5	3.0	10.5	14.0	7.9	6.2	4.9	14.5	9.1	6.2	4.4
60°	13.0	10.7	29.3	46.9	32.7	11.1	16.2	25.1	23.1	8.0	6.3
57.5°	121.8	41.9	60.7	87.8	86.2	46.8	34.1	45.5	39.2	22.6	8.9
55°	260.1	218.9	144.5	132.3	143.0	115.4	75.2	73.7	60.5	41.9	14.4
52.5°	356.8	372.4	324.1	226.4	197.2	187.9	146.7	106.9	94.9	62.9	36.4
50°	516.5	481.0	476.2	399.8	276.5	250.3	216.6	167.0	133.2	89.9	61.5
47.5°	729.7	641.0	594.0	559.6	441.2	319.0	284.1	228.4	175.4	129.6	87.8
45°	1042.8	828.5	737.5	681.8	604.6	448.7	355.6	288.1	228.6	174.0	115.3
42.5°	1357.2	1071.2	901.4	811.5	731.1	595.1	432.0	356.8	280.5	219.2	150.2
40°	1634.7	1321.4	1073.8	958.1	855.4	736.5	555.8	430.4	331.3	265.7	189.9
37.5°	1968.8	1606.4	1272.1	1111.7	987.8	854.6	681.3	507.3	392.4	314.5	229.7
35°	2292.0	1975.2	1494.0	1297.3	1135.2	975.8	802.2	598.1	467.4	364.0	269.5
32.5°	2639.0	2322.1	1829.1	1504.6	1287.7	1099.6	915.3	708.5	542.8	414.2	309.2
30°	2912.2	2550.5	2123.2	1712.1	1453.7	1237.7	1028.1	814.5	618.5	464.8	349.2
27.5°	3057.1	2748.1	2355.3	1943.3	1640.5	1379.3	1144.4	915.8	694.0	520.5	390.9
25°	3206.9	2887.3	2521.2	2145.4	1825.0	1529.2	1260.2	1012.4	776.5	583.2	432.1
22.5°	3386.1	3005.6	2661.0	2305.6	2015.2	1681.2	1381.6	1110.1	858.9	644.7	472.7
20°	3566.0	3115.5	2799.0	2523.6	2201.9	1845.6	1508.6	1205.5	936.7	704.6	512.4
17.5°	3754.9	3315.1	3033.4	2736.3	2388.0	2005.0	1633.7	1297.9	1009.7	762.6	550.9
15°	4083.6	3613.9	3269.4	2943.3	2573.2	2158.2	1755.7	1386.6	1077.7	818.4	586.8
12.5°	4382.0	3892.1	3505.7	3143.4	2755.3	2304.4	1873.5	1471.0	1140.8	862.8	618.8
10°	4629.0	4150.0	3739.2	3335.5	2932.0	2442.3	1985.7	1539.8	1178.6	896.0	648.2
7.5°	4831.2	4388.4	3966.9	3518.3	3083.9	2532.5	2042.3	1580.0	1207.9	924.2	675.0
5°	4977.3	4547.5	4087.8	3582.0	3131.3	2569.6	2080.8	1612.6	1231.5	947.8	699.2
2.5°	5019.4	4596.4	4133.3	3616.9	3163.4	2593.6	2108.3	1637.6	1249.7	966.9	720.6
0°	5043.9	4628.5	4161.7	3638.4	3179.8	2605.0	2124.9	1654.7	1262.6	981.9	739.3
-2.5°	5078.1	4656.2	4189.2	3693.5	3190.7	2639.9	2134.3	1665.9	1278.9	987.3	750.2
-5°	5095.2	4667.1	4202.3	3730.6	3187.9	2660.7	2133.1	1669.4	1289.5	989.1	758.2
-7.5°	5087.7	4663.4	4202.8	3742.2	3173.5	2665.5	2121.5	1665.7	1293.8	987.7	763.1
-10°	5064.7	4644.5	4186.8	3712.2	3160.2	2646.7	2100.9	1655.1	1291.3	983.5	765.0
-12.5°	5029.9	4609.2	4154.0	3668.9	3132.5	2607.8	2076.5	1637.0	1280.8	976.7	763.8
-15°	4984.6	4557.8	4104.1	3614.0	3087.0	2556.1	2040.0	1610.6	1260.5	968.9	759.3
-17.5°	4926.6	4490.8	4037.0	3548.8	3023.0	2492.1	1990.8	1576.3	1235.1	959.5	750.1
-20°	4822.9	4400.7	3951.7	3474.8	2939.8	2416.2	1929.0	1534.0	1204.9	946.1	737.0



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4706.4	4289.2	3845.3	3374.8	2839.6	2329.0	1854.2	1483.8	1170.0	928.7	721.3
-25°	4582.1	4163.7	3721.7	3236.5	2728.9	2236.8	1779.3	1425.6	1130.8	907.1	703.1
-27.5°	4436.2	4021.5	3581.6	3084.2	2600.3	2129.9	1707.5	1374.1	1092.7	881.3	682.4
-30°	4272.1	3854.4	3406.5	2921.6	2459.4	2006.2	1626.9	1319.1	1060.6	853.2	659.4
-32.5°	4084.1	3670.3	3212.4	2755.2	2310.6	1875.0	1538.0	1260.2	1023.4	823.4	638.0
-35°	3870.1	3456.0	3006.8	2576.6	2152.9	1769.0	1451.1	1197.8	981.3	791.2	615.5
-37.5°	3647.2	3226.0	2801.2	2390.0	1985.3	1654.2	1372.9	1136.1	934.3	756.6	590.7
-40°	3392.7	2989.4	2585.4	2197.8	1840.1	1531.0	1288.3	1075.2	889.8	719.9	563.5
-42.5°	3130.4	2741.2	2360.3	1994.4	1696.9	1430.6	1199.7	1009.7	842.9	684.3	534.0
-45°	2847.8	2479.2	2120.9	1823.0	1551.2	1324.4	1122.1	941.8	792.9	648.0	503.6
-47.5°	2549.6	2202.9	1903.3	1644.5	1427.3	1217.6	1039.6	883.0	740.3	609.1	473.1
-50°	2233.6	1945.7	1702.9	1489.3	1293.8	1121.5	957.4	821.5	692.1	566.0	441.1
-52.5°	1953.6	1723.0	1522.1	1339.2	1176.1	1020.4	886.6	758.4	642.5	524.8	407.6
-55°	1713.8	1524.8	1355.2	1203.0	1059.4	933.7	813.1	702.4	591.5	483.5	373.8
-57.5°	1506.7	1341.5	1205.8	1073.6	955.0	847.8	746.1	645.1	542.6	440.8	346.9
-60°	1307.7	1184.4	1063.6	957.4	856.9	766.0	682.9	587.8	493.2	398.0	317.2
-62.5°	1135.8	1030.6	939.3	846.6	763.2	689.1	619.2	531.8	442.4	358.5	284.8
-65°	974.8	893.9	816.1	742.2	673.0	610.2	553.6	474.4	391.5	316.5	251.3
-67.5°	821.8	760.8	699.8	637.7	583.3	532.5	484.1	412.4	338.3	272.4	218.0
-70°	685.1	633.0	585.2	539.1	495.0	452.6	406.9	346.5	282.8	232.9	183.9
-72.5°	556.1	518.0	478.3	440.5	407.8	370.5	328.6	281.4	236.7	192.6	149.1
-75°	436.7	411.6	383.6	353.5	323.1	289.8	262.1	229.1	190.1	151.6	120.2
-77.5°	349.4	324.9	296.9	272.9	252.5	229.8	204.6	175.9	145.0	118.0	92.9
-80°	257.7	239.0	223.2	209.4	190.5	169.7	148.8	128.0	105.4	84.5	65.1
-82.5°	157.2	153.1	148.7	142.4	126.6	111.2	96.1	81.2	65.2	50.5	41.8
-85°	78.6	77.0	74.7	71.4	61.7	52.3	47.9	43.4	38.1	32.9	27.9
-87.5°	25.8	27.8	29.4	30.5	28.3	26.2	24.0	21.8	19.1	16.5	14.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	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°	0.9	0.7	0.6	0.4	0.3	0.2	0.0
85°	1.7	1.4	1.1	0.9	0.6	0.4	0.0
82.5°	2.6	2.1	1.7	1.3	0.9	0.5	0.0
80°	3.3	2.8	2.3	1.7	1.2	0.7	0.0
77.5°	3.3	3.3	2.8	2.1	1.4	0.9	0.0
75°	3.3	3.4	3.3	2.6	1.7	1.1	0.0
72.5°	3.4	3.6	3.5	3.0	2.0	1.3	0.0
70°	3.5	3.7	3.6	3.3	2.3	1.4	0.0
67.5°	3.9	3.8	3.8	3.5	2.6	1.6	0.0
65°	4.4	4.4	4.0	3.7	2.9	1.8	0.0
62.5°	5.2	5.5	4.2	3.8	3.2	2.0	0.0
60°	6.1	6.7	4.4	4.0	3.5	2.1	0.0
57.5°	11.4	8.0	5.6	4.2	3.7	2.3	0.0
55°	18.1	9.4	7.0	4.4	3.9	2.5	0.0
52.5°	26.0	12.1	8.5	4.6	4.1	2.6	0.0
50°	35.1	20.6	10.0	4.8	4.3	2.8	0.0
47.5°	47.2	29.8	11.6	5.2	4.5	3.0	0.0
45°	71.1	39.7	13.3	6.5	4.7	3.1	0.0
42.5°	95.7	50.1	15.0	7.7	4.9	3.3	0.0
40°	120.7	61.2	20.2	9.4	5.1	3.4	0.0
37.5°	146.3	72.8	28.8	11.3	5.3	3.6	0.0
35°	172.3	90.5	37.6	13.6	5.5	3.7	0.0
32.5°	200.4	111.0	46.5	16.0	5.8	3.8	0.0
30°	232.7	131.3	55.5	18.6	6.0	4.0	0.0
27.5°	264.2	151.4	66.6	21.4	6.2	4.1	0.0
25°	295.0	171.1	78.0	24.4	6.4	4.2	0.0
22.5°	325.0	191.3	89.3	27.5	6.6	4.3	0.0
20°	353.9	212.9	100.5	30.6	6.8	4.4	0.0
17.5°	382.5	233.8	111.6	33.9	7.0	4.5	0.0
15°	410.0	253.9	122.3	37.1	7.2	4.6	0.0
12.5°	435.7	273.1	132.8	40.3	7.4	4.7	0.0
10°	459.5	291.2	142.7	43.5	7.6	4.8	0.0
7.5°	481.4	308.1	152.1	46.6	7.8	4.8	0.0
5°	501.4	323.7	160.9	49.5	8.0	4.9	0.0
2.5°	519.2	337.9	168.9	52.3	8.1	5.0	0.0
0°	535.0	350.5	176.1	54.8	8.3	5.0	0.0
-2.5°	542.8	358.5	182.8	58.4	9.6	5.3	0.0
-5°	548.5	364.8	188.5	61.7	10.9	5.6	0.0
-7.5°	552.2	369.4	193.1	64.6	12.1	5.8	0.0
-10°	553.8	372.3	196.7	67.1	13.3	6.1	0.0
-12.5°	553.5	373.5	199.0	69.3	14.5	6.3	0.0
-15°	551.3	372.9	200.2	71.0	15.5	6.5	0.0
-17.5°	547.3	370.7	200.0	72.2	16.5	6.7	0.0
-20°	541.1	366.8	198.6	73.0	17.5	6.8	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	532.0	361.2	195.8	73.2	18.3	7.0	0.0
-25°	520.9	352.5	191.6	72.9	19.0	7.1	0.0
-27.5°	507.7	341.7	186.0	72.0	19.6	7.2	0.0
-30°	492.3	329.4	179.0	70.5	20.2	7.2	0.0
-32.5°	475.0	315.6	170.9	68.4	20.6	7.2	0.0
-35°	456.2	300.4	161.8	65.7	20.8	7.2	0.0
-37.5°	436.0	285.1	151.9	62.5	21.0	7.2	0.0
-40°	414.3	271.2	141.0	58.6	21.0	7.1	0.0
-42.5°	391.0	256.4	132.8	54.4	20.9	7.0	0.0
-45°	366.3	240.6	127.2	50.1	20.6	6.9	0.0
-47.5°	340.2	223.9	120.5	45.2	20.3	6.7	0.0
-50°	318.3	206.4	112.9	43.6	19.8	6.5	0.0
-52.5°	296.5	187.9	104.3	42.8	19.1	6.3	0.0
-55°	273.8	174.0	94.8	41.4	18.4	6.0	0.0
-57.5°	250.2	159.9	84.3	39.6	17.5	5.7	0.0
-60°	226.3	144.4	73.3	37.4	16.5	5.4	0.0
-62.5°	204.5	127.7	68.1	34.8	15.5	5.0	0.0
-65°	181.1	109.9	62.2	31.7	14.4	4.7	0.0
-67.5°	156.2	95.0	55.6	28.3	13.2	4.3	0.0
-70°	130.0	83.2	48.4	24.6	12.0	3.8	0.0
-72.5°	109.9	70.4	40.6	21.6	10.6	3.4	0.0
-75°	89.9	56.9	32.3	18.8	9.2	3.0	0.0
-77.5°	68.8	42.7	26.7	15.9	7.8	2.5	0.0
-80°	47.0	32.5	21.6	12.8	6.3	2.0	0.0
-82.5°	34.5	24.6	16.3	9.7	4.7	1.5	0.0
-85°	23.1	16.5	10.9	6.5	3.2	1.0	0.0
-87.5°	11.6	8.3	5.5	3.3	1.6	0.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)