

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: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4D-735-U-VWR-VSR-XX**

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/7/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4D-735-U-VWR-VSR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N7 WITH VISOR  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

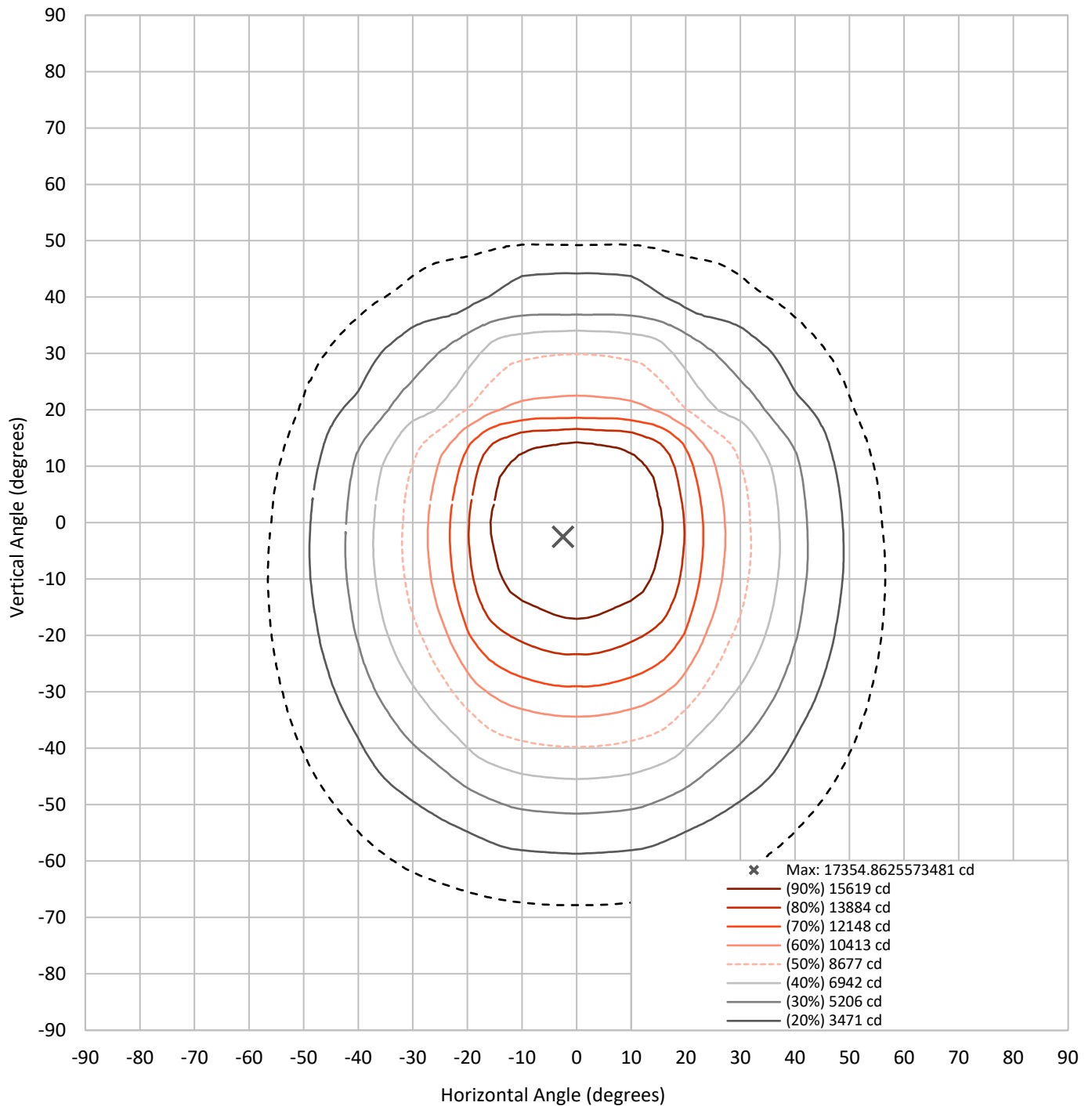
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	23160.6 lumens	Max Intensity:	17354.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	104.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	63.9°H x 69.6°V	Field Angle (10%):	112.5°H x 117.1°V
Beam Lumens:	13400 lumens	Field Lumens:	21977.9 lumens
Beam Efficiency:	57.9%	Field Efficiency:	94.9%
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

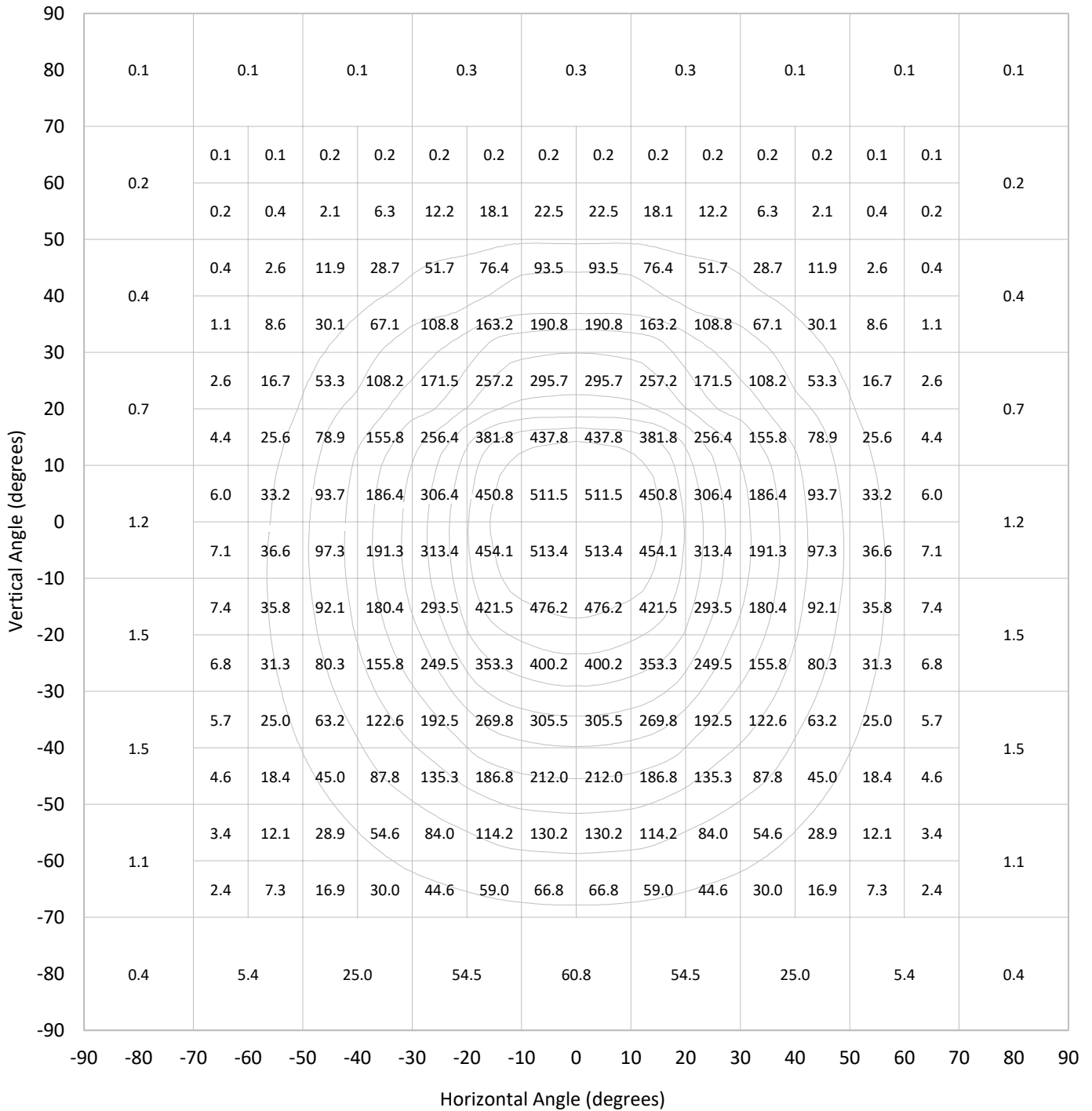




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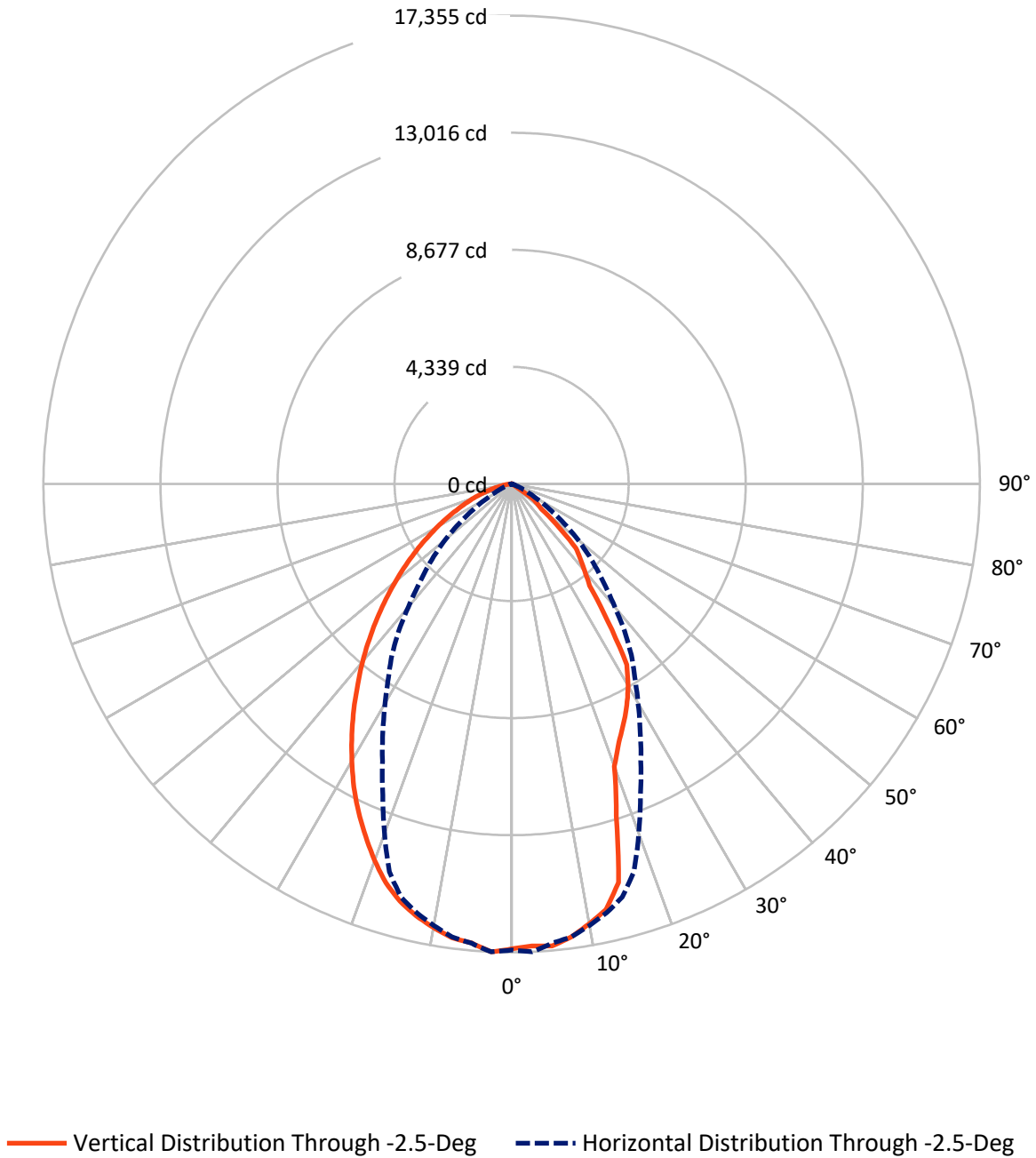
CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

### Lumen Table



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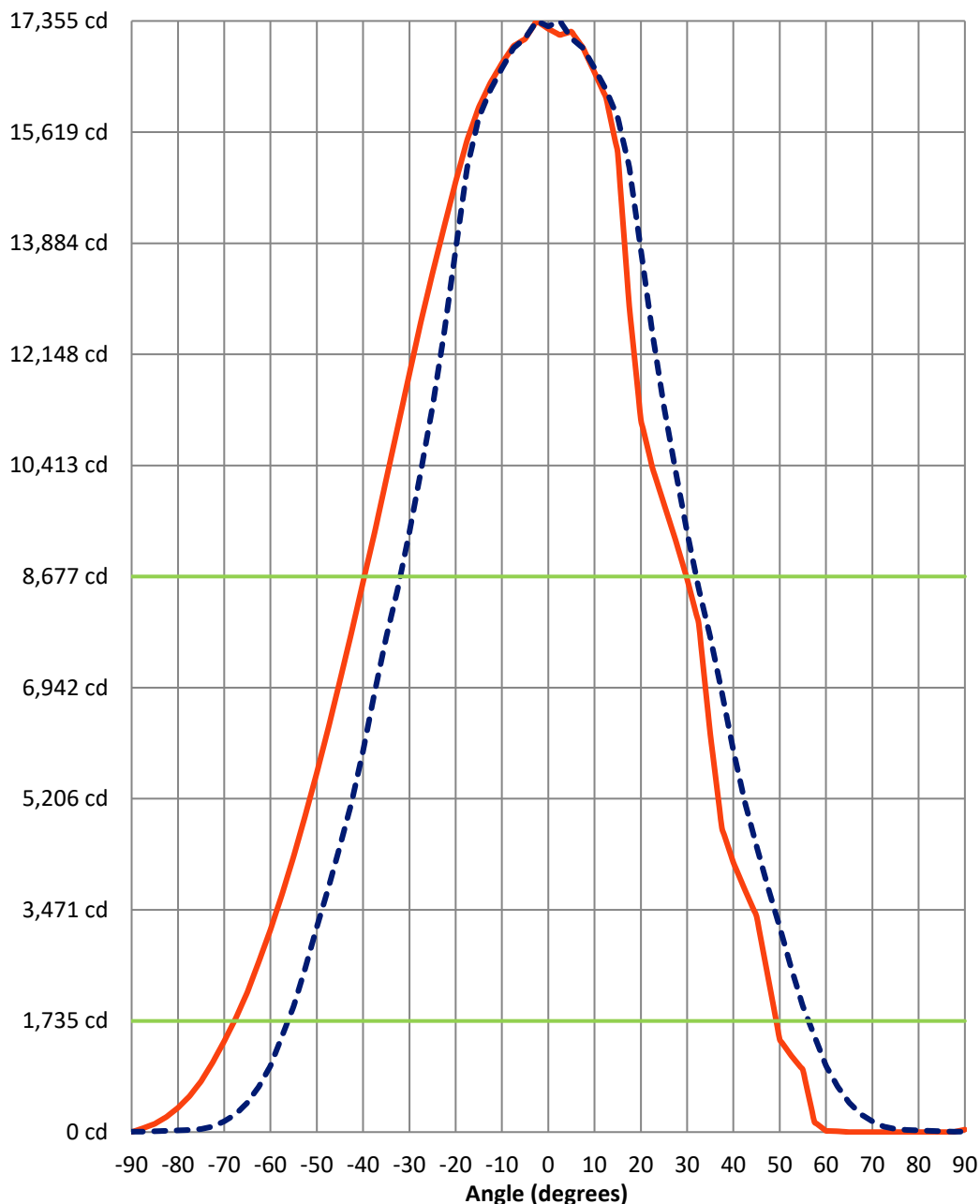
### Luminous Intensity Polar Plot





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### Luminous Intensity Plot



**Beam:**  
 H Angle: 63.9°  
 V Angle: 69.6°  
 Lumens: 13400  
 Efficiency: 57.9%

**Field:**  
 H Angle: 112.5°  
 V Angle: 117.1°  
 Lumens: 21977.9  
 Efficiency: 94.9%

**Spill:**  
 Lumens: 1182.7  
 Efficiency: 5.1%

— Vertical Distribution through -2.5-Deg  
 - - - Horizontal Distribution through -2.5-Deg

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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	6.5	6.5	6.5	8.1	9.8	11.4	13.0	14.6	16.2	17.8	19.4
87.5°	6.5	6.5	6.5	6.3	5.9	5.4	4.8	3.4	2.1	1.0	0.0
85°	6.5	6.5	6.5	6.1	5.4	4.4	3.2	2.0	1.0	0.4	0.0
82.5°	6.5	6.5	6.5	5.9	4.8	3.4	1.5	0.5	0.2	0.9	1.7
80°	6.5	6.5	6.5	5.7	4.3	2.4	0.3	1.3	2.4	3.4	4.4
77.5°	6.5	6.5	6.5	5.5	3.8	2.2	2.0	3.2	4.5	5.9	5.9
75°	6.5	6.5	6.5	5.4	3.6	3.2	3.6	5.1	6.4	5.3	3.4
72.5°	6.5	6.5	6.5	5.2	4.1	4.2	5.2	6.4	5.5	3.8	1.1
70°	6.5	6.5	6.5	5.2	4.7	5.2	6.5	6.1	4.8	2.5	3.0
67.5°	6.5	6.5	6.5	5.4	5.2	6.1	6.7	6.0	4.2	5.0	5.8
65°	6.5	6.5	6.5	5.6	5.7	6.7	6.9	5.9	6.5	7.6	8.0
62.5°	6.5	6.5	6.5	5.8	6.1	7.2	7.3	7.3	8.7	9.9	9.0
60°	6.5	6.5	6.5	6.0	6.5	7.8	7.7	9.3	11.0	11.3	10.2
57.5°	6.5	6.5	6.6	6.2	7.1	8.4	9.3	11.2	12.9	13.0	12.7
55°	6.5	6.5	6.7	6.3	7.8	9.1	10.9	13.2	14.8	15.0	15.8
52.5°	6.5	6.5	6.8	6.4	8.5	10.0	12.5	15.0	16.9	17.8	18.8
50°	6.5	6.5	6.9	6.5	9.2	11.3	14.1	16.8	19.2	20.6	21.9
47.5°	6.5	6.5	7.1	6.6	9.9	12.6	15.6	18.6	21.6	23.3	24.9
45°	6.5	6.5	7.3	7.2	10.7	13.8	17.1	20.4	23.9	26.0	27.9
42.5°	6.5	6.5	7.5	7.8	11.5	15.0	18.6	22.4	26.3	28.7	33.8
40°	6.5	6.5	7.7	8.6	12.4	16.2	20.1	24.6	28.9	31.4	40.4
37.5°	6.5	6.5	8.0	9.5	13.3	17.4	21.4	26.9	31.6	35.7	47.1
35°	6.5	6.5	8.3	10.3	14.2	18.5	22.8	29.2	34.4	43.8	59.9
32.5°	6.5	6.5	8.6	11.2	15.1	19.6	24.3	31.7	37.4	53.4	85.5
30°	6.5	6.5	8.9	12.0	15.9	20.6	26.2	34.1	40.5	64.3	110.4
27.5°	6.5	6.5	9.2	12.7	16.9	21.6	28.2	36.7	45.8	76.4	134.5
25°	6.5	6.5	9.5	13.5	17.9	22.6	30.1	39.2	55.2	94.2	158.1
22.5°	6.5	6.5	9.9	14.2	18.9	23.6	32.0	41.7	65.1	113.6	189.2
20°	6.5	6.5	10.3	14.9	19.8	24.8	33.8	44.3	75.3	132.1	220.2
17.5°	6.5	6.5	10.6	15.6	20.8	25.9	35.7	46.8	85.8	149.6	250.7
15°	6.5	6.5	11.0	16.2	21.6	27.0	37.5	50.0	96.2	165.9	280.3
12.5°	6.5	6.5	11.3	16.9	22.4	28.0	39.2	54.5	107.9	181.0	308.6
10°	6.5	6.5	11.7	17.4	23.2	29.0	40.7	59.3	120.3	198.7	337.0
7.5°	6.5	6.5	12.1	18.0	24.0	30.0	42.1	64.1	132.0	215.8	366.9
5°	6.5	6.5	12.4	18.5	24.7	30.8	43.3	68.8	143.1	231.7	394.4
2.5°	6.5	6.5	12.7	19.0	25.3	31.6	44.4	73.4	153.1	246.2	419.1
0°	6.5	6.5	13.0	19.4	25.9	32.4	45.3	77.7	162.0	259.1	440.5
-2.5°	6.5	6.5	13.0	19.3	26.9	33.7	50.1	92.9	173.6	297.5	475.6
-5°	6.5	6.5	13.0	19.3	26.9	33.7	50.1	92.9	173.6	297.5	475.6
-7.5°	6.5	6.5	12.9	19.2	27.3	34.3	52.2	99.2	177.6	312.1	487.9
-10°	6.5	6.5	12.8	19.1	27.6	34.8	53.8	104.4	180.6	322.7	497.0
-12.5°	6.5	6.5	12.7	18.9	27.8	35.2	55.1	108.4	182.6	328.3	504.1
-15°	6.5	6.5	12.6	18.7	27.9	35.5	55.9	110.7	186.4	327.7	506.7
-17.5°	6.5	6.5	12.4	18.5	27.9	35.8	56.2	113.1	192.0	324.4	503.5
-20°	6.5	6.5	12.2	18.2	27.7	36.0	57.7	115.4	195.7	318.4	494.3

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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°	6.5	6.5	12.0	17.9	27.4	36.2	61.4	116.4	197.3	309.9	478.6
-25°	6.5	6.5	11.8	17.6	26.9	38.6	64.4	116.1	196.7	298.9	456.2
-27.5°	6.5	6.5	11.5	17.2	26.2	41.6	66.8	114.3	193.9	289.5	439.8
-30°	6.5	6.5	11.3	16.8	25.6	44.2	68.4	111.1	190.3	285.4	421.4
-32.5°	6.5	6.5	11.0	16.4	26.5	46.3	69.2	111.3	185.7	278.2	400.6
-35°	6.5	6.5	10.6	15.9	27.2	48.0	71.1	111.9	179.2	268.2	377.5
-37.5°	6.5	6.5	10.3	15.4	27.7	49.1	73.0	111.5	170.9	255.2	367.2
-40°	6.5	6.5	10.0	14.9	27.9	49.5	74.2	110.0	160.8	242.7	355.7
-42.5°	6.5	6.5	9.6	14.6	28.1	49.5	74.5	107.5	155.1	232.6	338.0
-45°	6.5	6.5	9.2	14.7	28.2	49.1	74.2	105.2	150.9	220.3	315.9
-47.5°	6.5	6.5	8.8	14.6	28.0	48.4	73.0	103.7	145.5	205.4	298.4
-50°	6.5	6.5	8.4	14.4	27.5	47.2	71.5	101.1	141.2	200.1	277.6
-52.5°	6.5	6.5	7.9	14.1	26.7	45.8	69.5	97.6	137.6	193.0	255.3
-55°	6.5	6.5	7.5	13.7	25.6	43.9	67.0	93.2	133.1	184.3	244.7
-57.5°	6.5	6.5	7.0	13.2	24.1	41.5	64.1	89.3	126.8	175.1	232.0
-60°	6.5	6.5	6.5	12.6	22.5	38.7	60.5	84.9	118.9	164.2	217.5
-62.5°	6.5	6.5	6.5	12.0	21.2	35.4	55.7	79.1	109.0	151.2	200.6
-65°	6.5	6.5	6.5	11.2	19.8	31.8	50.2	71.6	97.1	134.2	181.4
-67.5°	6.5	6.5	6.5	10.3	18.3	28.5	44.1	62.9	83.3	114.3	155.9
-70°	6.5	6.5	6.5	9.4	16.6	25.9	37.6	53.6	71.4	92.2	126.0
-72.5°	6.5	6.5	6.5	9.1	14.8	23.1	33.2	43.8	58.9	76.4	96.4
-75°	6.5	6.5	6.5	9.1	12.9	20.1	28.9	37.0	45.8	60.2	76.6
-77.5°	6.5	6.5	6.5	9.0	12.2	17.0	24.4	31.0	38.0	45.6	56.2
-80°	6.5	6.5	6.5	8.8	11.8	15.3	19.7	25.0	30.6	36.7	43.2
-82.5°	6.5	6.5	6.5	8.7	11.3	14.4	17.8	20.3	23.1	27.7	32.6
-85°	6.5	6.5	6.5	8.5	10.8	13.4	16.3	18.4	20.6	22.7	24.8
-87.5°	6.5	6.5	6.5	8.3	10.3	12.4	14.6	16.5	18.4	20.3	22.1
-90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	4.9	3.2	1.6	0.0





REPORT NUMBER: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	21.0	22.7	24.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	1.7	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.3	3.5	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.7	1.9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1.4	0.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1.1	1.8	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3.7	4.0	2.7	1.1	0.0	0.4	1.0	0.7	0.0	0.3	0.8
67.5°	6.1	4.5	2.9	1.8	2.4	3.3	3.1	3.3	3.5	3.9	3.3
65°	6.3	4.8	4.9	5.7	6.4	7.0	7.6	8.0	6.8	5.9	6.0
62.5°	6.8	7.3	8.4	9.5	10.4	11.3	11.4	10.1	7.7	9.6	11.0
60°	9.7	10.6	12.0	13.3	14.5	15.2	14.5	14.7	16.3	18.9	36.4
57.5°	13.0	13.9	15.5	17.5	19.3	19.6	20.1	21.9	51.3	83.8	92.6
55°	16.4	17.1	19.8	23.0	24.9	24.7	35.5	74.9	113.0	156.6	172.7
52.5°	19.7	21.1	25.8	29.6	32.0	50.0	90.0	143.4	199.8	249.8	314.4
50°	23.0	27.7	32.6	38.2	60.9	107.6	166.2	239.2	324.0	403.9	485.8
47.5°	28.8	34.7	42.1	60.3	120.2	185.0	266.0	383.3	488.0	584.7	697.0
45°	35.6	47.9	56.0	119.3	188.9	272.5	409.7	553.2	648.2	777.7	976.3
42.5°	42.7	66.3	107.0	180.3	265.1	399.9	570.0	692.3	818.7	1028.5	1237.3
40°	61.4	88.9	161.5	248.6	356.1	552.6	727.2	865.7	1038.2	1270.9	1488.9
37.5°	84.2	135.7	217.0	321.5	498.8	714.2	901.2	1099.0	1297.3	1516.7	1921.2
35°	109.4	179.1	287.4	428.4	641.7	893.4	1116.4	1337.3	1566.0	1997.9	2399.2
32.5°	142.4	219.1	360.9	552.6	796.0	1072.4	1331.2	1586.6	1953.4	2442.1	2844.8
30°	177.8	283.3	445.6	667.6	941.3	1236.3	1547.5	1856.8	2342.1	2746.6	3183.8
27.5°	214.9	351.1	544.9	787.7	1077.4	1391.0	1742.2	2183.4	2616.3	3015.9	3496.4
25°	252.9	421.8	635.6	902.6	1211.3	1558.2	1962.1	2499.5	2838.2	3279.8	3780.9
22.5°	301.8	489.5	725.5	1006.7	1335.4	1729.9	2245.1	2784.7	3183.3	3554.7	4044.3
20°	358.4	565.6	823.3	1137.2	1457.0	1897.8	2526.5	3094.1	3562.8	3988.2	4437.9
17.5°	411.3	636.7	927.9	1270.4	1633.9	2112.8	2802.5	3430.7	3946.6	4420.6	4982.0
15°	460.2	702.6	1030.3	1396.5	1807.8	2359.2	3050.1	3740.0	4329.1	4862.4	5500.4
12.5°	504.9	762.7	1129.0	1514.4	1971.5	2571.5	3258.1	3931.4	4578.9	5273.8	5997.8
10°	545.1	816.8	1222.2	1623.4	2123.3	2751.2	3429.8	4091.0	4744.2	5479.7	6284.1
7.5°	588.4	867.3	1306.9	1722.4	2261.5	2899.6	3567.1	4219.0	4877.8	5644.3	6470.1
5°	628.3	913.8	1374.1	1793.3	2368.2	3015.3	3670.3	4316.2	4979.3	5767.0	6611.0
2.5°	663.4	953.0	1428.9	1849.0	2447.4	3100.5	3737.4	4397.4	5054.5	5866.6	6718.6
0°	693.2	984.7	1470.6	1891.7	2507.2	3161.5	3776.9	4450.7	5098.5	5934.2	6789.4
-2.5°	712.3	1036.7	1499.3	1966.2	2559.4	3201.4	3812.3	4465.6	5145.9	5955.6	6868.8
-5°	725.6	1078.8	1516.6	2023.6	2593.6	3219.0	3823.9	4454.1	5158.5	5950.2	6880.6
-7.5°	733.4	1108.6	1524.7	2056.3	2605.6	3208.5	3804.2	4432.1	5137.8	5929.9	6829.1
-10°	737.9	1117.9	1535.7	2046.4	2589.8	3173.7	3760.4	4380.7	5079.1	5863.6	6731.4
-12.5°	750.1	1111.9	1533.8	2024.7	2555.7	3121.3	3695.4	4299.1	4981.1	5750.6	6596.2
-15°	753.2	1098.6	1515.4	1992.6	2503.7	3052.7	3610.3	4187.4	4860.4	5640.5	6446.7
-17.5°	746.3	1078.4	1479.5	1951.7	2433.9	2969.4	3510.1	4086.8	4747.1	5513.5	6289.8
-20°	729.0	1052.3	1425.2	1903.4	2351.2	2877.0	3409.8	3981.2	4616.9	5337.3	6114.3

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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°	700.6	1020.7	1366.6	1836.0	2279.7	2770.9	3292.2	3837.4	4453.8	5108.8	5878.2
-25°	671.3	985.1	1320.4	1743.3	2193.7	2646.9	3157.1	3661.6	4262.1	4905.3	5588.1
-27.5°	643.5	935.3	1272.3	1641.7	2092.5	2514.5	3004.3	3496.4	4046.5	4677.0	5305.6
-30°	607.1	881.5	1213.7	1544.1	1971.4	2389.8	2833.9	3318.2	3812.9	4411.2	5029.7
-32.5°	575.0	825.6	1146.9	1469.7	1841.3	2249.4	2650.2	3111.8	3594.6	4104.6	4715.8
-35°	553.6	792.5	1076.2	1383.9	1708.5	2096.7	2477.9	2878.9	3346.5	3825.2	4361.8
-37.5°	536.1	754.5	1001.7	1294.3	1603.4	1936.5	2293.3	2662.4	3070.4	3553.0	4057.5
-40°	508.8	711.7	946.5	1209.0	1481.7	1784.6	2115.8	2449.8	2803.5	3275.0	3772.9
-42.5°	473.7	670.3	894.5	1116.2	1365.3	1641.8	1936.2	2250.8	2590.7	3000.2	3457.8
-45°	446.7	617.3	836.7	1035.2	1241.4	1494.3	1770.8	2055.8	2376.3	2727.9	3138.9
-47.5°	412.5	559.7	761.0	946.6	1128.3	1344.1	1597.0	1866.7	2150.7	2467.4	2804.3
-50°	375.8	511.6	668.5	849.2	1022.4	1201.9	1417.6	1667.0	1924.6	2200.8	2501.3
-52.5°	348.0	455.4	598.6	749.0	914.2	1077.0	1260.6	1474.4	1704.5	1935.3	2199.6
-55°	316.6	414.1	532.1	666.9	807.5	958.2	1125.3	1312.7	1500.2	1712.2	1923.2
-57.5°	294.4	374.3	476.5	593.7	720.0	848.1	1005.9	1164.1	1337.8	1513.2	1688.3
-60°	277.1	339.9	424.7	527.9	640.4	760.2	889.7	1035.9	1185.4	1328.6	1479.9
-62.5°	257.3	311.9	378.3	462.4	564.1	668.2	782.3	907.6	1042.9	1163.4	1280.7
-65°	231.8	279.2	336.1	404.6	484.5	572.5	669.7	775.3	892.2	990.1	1085.9
-67.5°	202.4	242.3	290.0	345.9	412.6	481.3	552.6	641.9	736.8	816.7	894.7
-70°	165.4	202.3	241.3	286.9	339.1	397.4	460.2	525.0	590.0	655.2	726.6
-72.5°	126.6	160.2	193.3	225.8	267.4	315.1	366.3	420.7	477.4	533.2	587.4
-75°	96.5	118.3	147.2	176.5	205.4	236.5	271.2	314.4	367.1	421.2	470.7
-77.5°	72.8	91.2	110.4	130.6	148.8	171.8	196.8	223.7	267.2	317.1	367.5
-80°	52.5	63.5	78.8	95.0	107.9	120.5	133.7	147.3	179.7	219.9	262.8
-82.5°	39.0	46.5	55.0	64.4	70.9	77.2	84.2	93.2	117.2	144.4	173.0
-85°	26.8	29.1	33.7	38.9	42.5	46.2	49.9	53.8	66.7	81.2	96.8
-87.5°	23.1	24.3	25.5	26.8	27.3	27.8	28.2	28.6	32.9	37.5	42.2
-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: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	25.9	27.5	29.2	30.8	32.4	34.0	35.7	37.3	38.9	38.9	38.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.6	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3.0	3.3	3.4	2.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	6.9	6.5	4.9	3.2	1.5	2.5	3.9	4.7	4.8	4.2	3.3
62.5°	10.3	9.4	8.6	9.9	11.8	13.7	13.1	12.4	11.5	11.0	11.4
60°	38.3	25.6	29.5	37.1	34.6	23.7	39.0	44.2	37.6	25.8	24.9
57.5°	97.1	93.7	107.3	156.8	172.6	157.3	187.9	228.2	227.0	195.5	194.5
55°	206.9	277.6	362.9	376.7	436.1	555.1	647.8	607.2	607.0	637.5	735.9
52.5°	392.9	459.7	484.5	550.8	674.9	765.0	822.9	882.8	948.5	1015.5	1083.4
50°	576.7	641.5	715.0	782.9	954.7	1047.2	1031.7	1155.9	1314.7	1413.9	1464.9
47.5°	845.9	948.0	1103.4	1346.9	1475.2	1567.9	1683.2	1823.8	2005.8	2252.6	2442.7
45°	1162.9	1323.4	1563.9	1822.6	2021.6	2112.3	2244.2	2462.0	2752.1	3034.6	3241.0
42.5°	1422.0	1642.2	1913.5	2160.7	2323.0	2471.9	2642.8	2826.3	3158.7	3460.5	3699.0
40°	1760.1	1931.7	2236.0	2469.0	2614.3	2762.0	3032.7	3307.5	3620.0	3901.2	4096.6
37.5°	2188.6	2381.7	2698.3	2961.8	3101.7	3153.9	3614.2	3996.8	4250.8	4609.7	4727.1
35°	2649.0	2966.8	3370.2	3711.9	3849.0	4122.8	4597.1	5130.8	5709.2	5921.8	6103.2
32.5°	3162.6	3554.7	4102.0	4468.7	4664.5	5080.0	5680.1	6249.9	7006.1	7416.5	7539.2
30°	3632.5	4082.4	4552.9	4909.3	5243.9	5744.3	6291.6	6994.1	7693.4	8218.1	8381.1
27.5°	3977.3	4475.1	4927.4	5261.2	5638.8	6178.3	6860.7	7572.1	8258.5	8793.9	8984.1
25°	4306.5	4869.2	5227.3	5615.3	6058.8	6646.7	7403.0	8193.4	8869.5	9321.9	9555.3
22.5°	4680.9	5235.7	5620.1	5948.8	6528.6	7206.1	7908.1	8801.3	9517.5	9878.6	10131.5
20°	5067.3	5695.0	6288.8	6594.6	7096.3	7954.1	8739.9	9583.1	10274.8	10651.0	10917.5
17.5°	5606.4	6406.4	7134.7	7567.7	8104.9	9130.6	10111.2	10964.2	11926.3	12266.1	12591.7
15°	6174.9	7100.8	7954.0	8640.0	9333.8	10350.1	11612.4	12641.7	13739.6	14229.9	14784.2
12.5°	6741.7	7617.8	8390.8	9275.7	10253.7	11152.6	12354.4	13636.1	14632.4	15257.7	15630.9
10°	7165.2	7979.0	8722.8	9609.8	10586.0	11602.9	12797.1	14111.0	15153.9	15687.5	15992.1
7.5°	7394.0	8172.8	8957.3	9856.2	10828.0	11911.1	13141.4	14445.0	15511.4	16028.4	16329.1
5°	7563.8	8311.8	9124.1	10070.4	11053.0	12151.2	13379.8	14667.9	15640.2	16189.6	16569.9
2.5°	7666.6	8399.9	9230.5	10208.8	11193.8	12337.6	13625.6	14960.7	15811.5	16253.5	16603.3
0°	7696.4	8434.9	9290.1	10281.3	11291.9	12445.1	13721.3	15042.9	15904.6	16332.1	16688.4
-2.5°	7729.9	8490.4	9368.9	10328.3	11330.3	12480.2	13783.0	15070.8	15845.8	16277.3	16616.2
-5°	7706.5	8494.6	9370.5	10289.4	11298.0	12438.7	13689.4	14893.5	15704.3	16170.8	16507.8
-7.5°	7636.8	8436.1	9303.0	10186.1	11175.5	12329.2	13574.5	14734.0	15555.4	16047.2	16416.0
-10°	7535.3	8311.3	9184.2	10078.5	11056.1	12154.3	13380.5	14533.0	15319.1	15841.4	16271.2
-12.5°	7422.9	8182.8	9024.1	9881.9	10848.8	11933.4	13121.4	14212.5	14994.0	15563.7	15870.8
-15°	7256.2	8015.7	8820.0	9649.7	10592.1	11644.3	12779.2	13826.0	14593.4	15056.9	15396.4
-17.5°	7044.2	7789.4	8551.9	9338.9	10226.8	11263.0	12404.8	13437.2	14062.7	14476.7	14810.4
-20°	6817.1	7506.2	8228.7	8971.4	9831.9	10858.4	11979.7	12880.2	13469.8	13867.6	14182.6



REPORT NUMBER: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6557.8	7221.4	7882.7	8592.7	9436.5	10377.6	11368.0	12238.2	12872.1	13234.4	13525.5
-25°	6261.8	6907.3	7535.3	8221.0	8996.5	9842.4	10763.4	11618.5	12186.2	12571.1	12859.8
-27.5°	5943.0	6549.4	7162.9	7778.6	8475.8	9318.7	10171.6	10966.0	11450.6	11838.5	12128.9
-30°	5624.8	6170.3	6737.8	7320.7	7975.1	8735.0	9532.9	10200.8	10711.9	11088.8	11358.4
-32.5°	5279.9	5797.6	6300.4	6845.2	7461.3	8131.0	8831.2	9466.6	10012.7	10357.9	10585.1
-35°	4926.7	5427.8	5888.0	6382.5	6925.9	7503.9	8150.2	8776.9	9316.2	9589.4	9810.8
-37.5°	4558.8	5058.5	5494.8	5907.9	6376.0	6911.3	7540.7	8138.7	8604.6	8839.4	9039.0
-40°	4238.9	4678.7	5071.5	5466.8	5847.4	6322.8	6910.2	7489.1	7862.9	8091.7	8277.2
-42.5°	3928.4	4299.4	4621.0	4975.3	5356.2	5824.9	6298.9	6784.3	7084.8	7338.7	7534.0
-45°	3566.6	3898.3	4199.8	4494.6	4842.0	5269.8	5700.4	6089.2	6370.6	6616.1	6806.2
-47.5°	3166.6	3486.8	3779.6	4043.1	4366.0	4722.8	5085.4	5408.9	5686.8	5929.4	6099.0
-50°	2793.7	3079.8	3365.8	3632.4	3912.2	4200.9	4495.0	4779.0	5042.7	5278.4	5422.9
-52.5°	2459.7	2723.7	2973.6	3206.8	3451.6	3695.5	3939.0	4199.1	4441.8	4664.9	4780.2
-55°	2157.5	2395.5	2621.0	2817.5	3013.9	3207.3	3416.1	3656.2	3879.7	4086.4	4169.1
-57.5°	1886.3	2089.9	2289.5	2455.6	2616.0	2769.9	2953.1	3155.8	3351.5	3528.6	3596.3
-60°	1636.8	1798.4	1965.3	2112.6	2252.4	2384.3	2544.2	2707.4	2866.1	2999.6	3057.2
-62.5°	1407.2	1545.5	1671.9	1791.7	1910.1	2028.9	2157.9	2287.3	2415.5	2518.4	2570.4
-65°	1186.0	1296.0	1397.6	1496.1	1591.7	1691.4	1792.4	1890.8	1985.7	2059.2	2104.3
-67.5°	978.2	1061.9	1142.5	1219.3	1299.3	1380.1	1459.1	1534.5	1605.7	1662.5	1705.7
-70°	794.1	858.9	922.0	985.5	1052.3	1115.1	1174.6	1231.0	1284.0	1325.0	1358.2
-72.5°	640.1	692.6	747.1	804.4	858.3	905.3	948.1	989.3	1028.7	1051.9	1069.2
-75°	516.0	560.3	607.7	654.0	699.0	734.8	766.1	796.5	825.8	827.3	821.5
-77.5°	416.9	456.4	493.1	529.4	565.4	587.5	606.7	626.5	646.5	634.9	616.6
-80°	306.0	338.9	370.0	401.3	432.6	445.7	454.8	462.7	469.4	454.2	435.5
-82.5°	203.0	223.8	244.0	264.7	285.5	293.9	300.1	305.2	309.3	295.7	279.9
-85°	113.3	123.3	133.1	142.9	152.8	158.7	164.0	168.9	173.4	165.2	156.0
-87.5°	47.1	49.4	51.6	53.7	55.9	57.9	60.0	62.0	63.9	64.2	64.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	37.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.9	0.3	0.0	0.0	0.0	0.3	1.9	3.3	4.2	4.8	4.7
62.5°	11.9	12.4	12.9	13.0	12.9	12.4	11.9	11.4	11.0	11.5	12.4
60°	22.9	20.0	19.3	19.4	19.3	20.0	22.9	24.9	25.8	37.6	44.2
57.5°	179.6	153.7	157.6	174.9	157.6	153.7	179.6	194.5	195.5	227.0	228.2
55°	839.3	936.9	971.4	952.3	971.4	936.9	839.3	735.9	637.5	607.0	607.2
52.5°	1137.1	1177.1	1192.6	1192.0	1192.6	1177.1	1137.1	1083.4	1015.5	948.5	882.8
50°	1480.3	1466.8	1446.0	1425.3	1446.0	1466.8	1480.3	1464.9	1413.9	1314.7	1155.9
47.5°	2470.5	2427.7	2409.7	2442.4	2409.7	2427.7	2470.5	2442.7	2252.6	2005.8	1823.8
45°	3283.0	3333.2	3370.7	3368.8	3370.7	3333.2	3283.0	3241.0	3034.6	2752.1	2462.0
42.5°	3745.7	3772.4	3780.2	3770.4	3780.2	3772.4	3745.7	3699.0	3460.5	3158.7	2826.3
40°	4158.0	4189.9	4207.8	4223.9	4207.8	4189.9	4158.0	4096.6	3901.2	3620.0	3307.5
37.5°	4765.8	4777.5	4752.0	4735.7	4752.0	4777.5	4765.8	4727.1	4609.7	4250.8	3996.8
35°	6256.1	6286.6	6215.9	6290.6	6215.9	6286.6	6256.1	6103.2	5921.8	5709.2	5130.8
32.5°	7685.3	7828.3	7944.0	8039.7	7944.0	7828.3	7685.3	7539.2	7416.5	7006.1	6249.9
30°	8494.9	8587.2	8636.7	8648.7	8636.7	8587.2	8494.9	8381.1	8218.1	7693.4	6994.1
27.5°	9089.3	9186.0	9246.2	9290.1	9246.2	9186.0	9089.3	8984.1	8793.9	8258.5	7572.1
25°	9662.2	9750.7	9810.9	9834.3	9810.9	9750.7	9662.2	9555.3	9321.9	8869.5	8193.4
22.5°	10256.7	10318.1	10376.0	10404.4	10376.0	10318.1	10256.7	10131.5	9878.6	9517.5	8801.3
20°	11108.8	11075.4	11128.2	11110.5	11128.2	11075.4	11108.8	10917.5	10651.0	10274.8	9583.1
17.5°	12845.6	12863.6	12898.9	12956.9	12898.9	12863.6	12845.6	12591.7	12266.1	11926.3	10964.2
15°	15029.8	15073.8	15297.2	15496.4	15297.2	15073.8	15029.8	14784.2	14229.9	13739.6	12641.7
12.5°	15977.2	16129.3	16152.9	16209.0	16152.9	16129.3	15977.2	15630.9	15257.7	14632.4	13636.1
10°	16293.3	16556.7	16551.1	16617.2	16551.1	16556.7	16293.3	15992.1	15687.5	15153.9	14111.0
7.5°	16533.2	16816.1	16935.6	16986.4	16935.6	16816.1	16533.2	16329.1	16028.4	15511.4	14445.0
5°	16826.1	16981.7	17188.0	17129.0	17188.0	16981.7	16826.1	16569.9	16189.6	15640.2	14667.9
2.5°	16948.9	17192.5	17136.3	17193.8	17136.3	17192.5	16948.9	16603.3	16253.5	15811.5	14960.7
0°	17031.8	17206.7	17232.6	17290.9	17232.6	17206.7	17031.8	16688.4	16332.1	15904.6	15042.9
-2.5°	16931.3	17085.3	17354.9	17271.5	17354.9	17085.3	16931.3	16616.2	16277.3	15845.8	15070.8
-5°	16843.3	17222.1	17075.0	17258.5	17075.0	17222.1	16843.3	16507.8	16170.8	15704.3	14893.5
-7.5°	16797.8	16865.5	16963.2	17103.1	16963.2	16865.5	16797.8	16416.0	16047.2	15555.4	14734.0
-10°	16446.1	16515.4	16694.9	16792.1	16694.9	16515.4	16446.1	16271.2	15841.4	15319.1	14533.0
-12.5°	16064.8	16199.0	16387.4	16448.7	16387.4	16199.0	16064.8	15870.8	15563.7	14994.0	14212.5
-15°	15625.5	15824.8	16008.5	16047.1	16008.5	15824.8	15625.5	15396.4	15056.9	14593.4	13826.0
-17.5°	15066.9	15305.9	15499.0	15541.8	15499.0	15305.9	15066.9	14810.4	14476.7	14062.7	13437.2
-20°	14451.4	14680.3	14844.5	14893.9	14844.5	14680.3	14451.4	14182.6	13867.6	13469.8	12880.2



REPORT NUMBER: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	13792.4	13998.5	14137.3	14116.5	14137.3	13998.5	13792.4	13525.5	13234.4	12872.1	12238.2
-25°	13092.7	13284.0	13416.2	13397.4	13416.2	13284.0	13092.7	12859.8	12571.1	12186.2	11618.5
-27.5°	12353.1	12534.2	12661.3	12665.3	12661.3	12534.2	12353.1	12128.9	11838.5	11450.6	10966.0
-30°	11575.8	11740.4	11843.6	11803.7	11843.6	11740.4	11575.8	11358.4	11088.8	10711.9	10200.8
-32.5°	10774.1	10923.0	11017.5	11045.7	11017.5	10923.0	10774.1	10585.1	10357.9	10012.7	9466.6
-35°	9983.4	10114.6	10196.3	10216.5	10196.3	10114.6	9983.4	9810.8	9589.4	9316.2	8776.9
-37.5°	9197.8	9310.7	9367.7	9341.9	9367.7	9310.7	9197.8	9039.0	8839.4	8604.6	8138.7
-40°	8421.4	8528.9	8594.3	8609.8	8594.3	8528.9	8421.4	8277.2	8091.7	7862.9	7489.1
-42.5°	7658.1	7747.5	7804.9	7832.4	7804.9	7747.5	7658.1	7534.0	7338.7	7084.8	6784.3
-45°	6917.3	6997.2	7051.0	7080.9	7051.0	6997.2	6917.3	6806.2	6616.1	6370.6	6089.2
-47.5°	6196.5	6266.6	6313.0	6335.9	6313.0	6266.6	6196.5	6099.0	5929.4	5686.8	5408.9
-50°	5507.3	5568.0	5611.3	5636.2	5611.3	5568.0	5507.3	5422.9	5278.4	5042.7	4779.0
-52.5°	4853.7	4906.7	4943.6	4962.5	4943.6	4906.7	4853.7	4780.2	4664.9	4441.8	4199.1
-55°	4229.5	4272.6	4306.7	4327.6	4306.7	4272.6	4229.5	4169.1	4086.4	3879.7	3656.2
-57.5°	3647.5	3682.6	3715.0	3738.1	3715.0	3682.6	3647.5	3596.3	3528.6	3351.5	3155.8
-60°	3102.7	3135.9	3163.4	3180.9	3163.4	3135.9	3102.7	3057.2	2999.6	2866.1	2707.4
-62.5°	2611.1	2640.4	2665.6	2682.1	2665.6	2640.4	2611.1	2570.4	2518.4	2415.5	2287.3
-65°	2139.8	2166.1	2184.9	2196.2	2184.9	2166.1	2139.8	2104.3	2059.2	1985.7	1890.8
-67.5°	1742.5	1772.8	1778.8	1775.1	1778.8	1772.8	1742.5	1705.7	1662.5	1605.7	1534.5
-70°	1387.9	1413.6	1419.6	1418.8	1419.6	1413.6	1387.9	1358.2	1325.0	1284.0	1231.0
-72.5°	1085.2	1099.2	1087.3	1068.9	1087.3	1099.2	1085.2	1069.2	1051.9	1028.7	989.3
-75°	814.3	805.4	792.8	777.4	792.8	805.4	814.3	821.5	827.3	825.8	796.5
-77.5°	596.4	574.3	559.9	544.2	559.9	574.3	596.4	616.6	634.9	646.5	626.5
-80°	415.3	393.7	378.7	362.8	378.7	393.7	415.3	435.5	454.2	469.4	462.7
-82.5°	263.1	245.3	236.2	226.7	236.2	245.3	263.1	279.9	295.7	309.3	305.2
-85°	146.1	135.5	129.4	123.1	129.4	135.5	146.1	156.0	165.2	173.4	168.9
-87.5°	64.6	64.7	61.5	58.3	61.5	64.7	64.6	64.4	64.2	63.9	62.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	35.7	34.0	32.4	30.8	29.2	27.5	25.9	24.3	22.7	21.0	19.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.2	0.2	0.0	0.0	0.6	0.8	0.3	0.0	0.7
67.5°	0.0	0.0	1.2	2.7	3.4	3.3	3.0	3.3	3.9	3.5	3.3
65°	3.9	2.5	1.5	3.2	4.9	6.5	6.9	6.0	5.9	6.8	8.0
62.5°	13.1	13.7	11.8	9.9	8.6	9.4	10.3	11.0	9.6	7.7	10.1
60°	39.0	23.7	34.6	37.1	29.5	25.6	38.3	36.4	18.9	16.3	14.7
57.5°	187.9	157.3	172.6	156.8	107.3	93.7	97.1	92.6	83.8	51.3	21.9
55°	647.8	555.1	436.1	376.7	362.9	277.6	206.9	172.7	156.6	113.0	74.9
52.5°	822.9	765.0	674.9	550.8	484.5	459.7	392.9	314.4	249.8	199.8	143.4
50°	1031.7	1047.2	954.7	782.9	715.0	641.5	576.7	485.8	403.9	324.0	239.2
47.5°	1683.2	1567.9	1475.2	1346.9	1103.4	948.0	845.9	697.0	584.7	488.0	383.3
45°	2244.2	2112.3	2021.6	1822.6	1563.9	1323.4	1162.9	976.3	777.7	648.2	553.2
42.5°	2642.8	2471.9	2323.0	2160.7	1913.5	1642.2	1422.0	1237.3	1028.5	818.7	692.3
40°	3032.7	2762.0	2614.3	2469.0	2236.0	1931.7	1760.1	1488.9	1270.9	1038.2	865.7
37.5°	3614.2	3153.9	3101.7	2961.8	2698.3	2381.7	2188.6	1921.2	1516.7	1297.3	1099.0
35°	4597.1	4122.8	3849.0	3711.9	3370.2	2966.8	2649.0	2399.2	1997.9	1566.0	1337.3
32.5°	5680.1	5080.0	4664.5	4468.7	4102.0	3554.7	3162.6	2844.8	2442.1	1953.4	1586.6
30°	6291.6	5744.3	5243.9	4909.3	4552.9	4082.4	3632.5	3183.8	2746.6	2342.1	1856.8
27.5°	6860.7	6178.3	5638.8	5261.2	4927.4	4475.1	3977.3	3496.4	3015.9	2616.3	2183.4
25°	7403.0	6646.7	6058.8	5615.3	5227.3	4869.2	4306.5	3780.9	3279.8	2838.2	2499.5
22.5°	7908.1	7206.1	6528.6	5948.8	5620.1	5235.7	4680.9	4044.3	3554.7	3183.3	2784.7
20°	8739.9	7954.1	7096.3	6594.6	6288.8	5695.0	5067.3	4437.9	3988.2	3562.8	3094.1
17.5°	10111.2	9130.6	8104.9	7567.7	7134.7	6406.4	5606.4	4982.0	4420.6	3946.6	3430.7
15°	11612.4	10350.1	9333.8	8640.0	7954.0	7100.8	6174.9	5500.4	4862.4	4329.1	3740.0
12.5°	12354.4	11152.6	10253.7	9275.7	8390.8	7617.8	6741.7	5997.8	5273.8	4578.9	3931.4
10°	12797.1	11602.9	10586.0	9609.8	8722.8	7979.0	7165.2	6284.1	5479.7	4744.2	4091.0
7.5°	13141.4	11911.1	10828.0	9856.2	8957.3	8172.8	7394.0	6470.1	5644.3	4877.8	4219.0
5°	13379.8	12151.2	11053.0	10070.4	9124.1	8311.8	7563.8	6611.0	5767.0	4979.3	4316.2
2.5°	13625.6	12337.6	11193.8	10208.8	9230.5	8399.9	7666.6	6718.6	5866.6	5054.5	4397.4
0°	13721.3	12445.1	11291.9	10281.3	9290.1	8434.9	7696.4	6789.4	5934.2	5098.5	4450.7
-2.5°	13783.0	12480.2	11330.3	10328.3	9368.9	8490.4	7729.9	6868.8	5955.6	5145.9	4465.6
-5°	13689.4	12438.7	11298.0	10289.4	9370.5	8494.6	7706.5	6880.6	5950.2	5158.5	4454.1
-7.5°	13574.5	12329.2	11175.5	10186.1	9303.0	8436.1	7636.8	6829.1	5929.9	5137.8	4432.1
-10°	13380.5	12154.3	11056.1	10078.5	9184.2	8311.3	7535.3	6731.4	5863.6	5079.1	4380.7
-12.5°	13121.4	11933.4	10848.8	9881.9	9024.1	8182.8	7422.9	6596.2	5750.6	4981.1	4299.1
-15°	12779.2	11644.3	10592.1	9649.7	8820.0	8015.7	7256.2	6446.7	5640.5	4860.4	4187.4
-17.5°	12404.8	11263.0	10226.8	9338.9	8551.9	7789.4	7044.2	6289.8	5513.5	4747.1	4086.8
-20°	11979.7	10858.4	9831.9	8971.4	8228.7	7506.2	6817.1	6114.3	5337.3	4616.9	3981.2



REPORT NUMBER: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11368.0	10377.6	9436.5	8592.7	7882.7	7221.4	6557.8	5878.2	5108.8	4453.8	3837.4
-25°	10763.4	9842.4	8996.5	8221.0	7535.3	6907.3	6261.8	5588.1	4905.3	4262.1	3661.6
-27.5°	10171.6	9318.7	8475.8	7778.6	7162.9	6549.4	5943.0	5305.6	4677.0	4046.5	3496.4
-30°	9532.9	8735.0	7975.1	7320.7	6737.8	6170.3	5624.8	5029.7	4411.2	3812.9	3318.2
-32.5°	8831.2	8131.0	7461.3	6845.2	6300.4	5797.6	5279.9	4715.8	4104.6	3594.6	3111.8
-35°	8150.2	7503.9	6925.9	6382.5	5888.0	5427.8	4926.7	4361.8	3825.2	3346.5	2878.9
-37.5°	7540.7	6911.3	6376.0	5907.9	5494.8	5058.5	4558.8	4057.5	3553.0	3070.4	2662.4
-40°	6910.2	6322.8	5847.4	5466.8	5071.5	4678.7	4238.9	3772.9	3275.0	2803.5	2449.8
-42.5°	6298.9	5824.9	5356.2	4975.3	4621.0	4299.4	3928.4	3457.8	3000.2	2590.7	2250.8
-45°	5700.4	5269.8	4842.0	4494.6	4199.8	3898.3	3566.6	3138.9	2727.9	2376.3	2055.8
-47.5°	5085.4	4722.8	4366.0	4043.1	3779.6	3486.8	3166.6	2804.3	2467.4	2150.7	1866.7
-50°	4495.0	4200.9	3912.2	3632.4	3365.8	3079.8	2793.7	2501.3	2200.8	1924.6	1667.0
-52.5°	3939.0	3695.5	3451.6	3206.8	2973.6	2723.7	2459.7	2199.6	1935.3	1704.5	1474.4
-55°	3416.1	3207.3	3013.9	2817.5	2621.0	2395.5	2157.5	1923.2	1712.2	1500.2	1312.7
-57.5°	2953.1	2769.9	2616.0	2455.6	2289.5	2089.9	1886.3	1688.3	1513.2	1337.8	1164.1
-60°	2544.2	2384.3	2252.4	2112.6	1965.3	1798.4	1636.8	1479.9	1328.6	1185.4	1035.9
-62.5°	2157.9	2028.9	1910.1	1791.7	1671.9	1545.5	1407.2	1280.7	1163.4	1042.9	907.6
-65°	1792.4	1691.4	1591.7	1496.1	1397.6	1296.0	1186.0	1085.9	990.1	892.2	775.3
-67.5°	1459.1	1380.1	1299.3	1219.3	1142.5	1061.9	978.2	894.7	816.7	736.8	641.9
-70°	1174.6	1115.1	1052.3	985.5	922.0	858.9	794.1	726.6	655.2	590.0	525.0
-72.5°	948.1	905.3	858.3	804.4	747.1	692.6	640.1	587.4	533.2	477.4	420.7
-75°	766.1	734.8	699.0	654.0	607.7	560.3	516.0	470.7	421.2	367.1	314.4
-77.5°	606.7	587.5	565.4	529.4	493.1	456.4	416.9	367.5	317.1	267.2	223.7
-80°	454.8	445.7	432.6	401.3	370.0	338.9	306.0	262.8	219.9	179.7	147.3
-82.5°	300.1	293.9	285.5	264.7	244.0	223.8	203.0	173.0	144.4	117.2	93.2
-85°	164.0	158.7	152.8	142.9	133.1	123.3	113.3	96.8	81.2	66.7	53.8
-87.5°	60.0	57.9	55.9	53.7	51.6	49.4	47.1	42.2	37.5	32.9	28.6
-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: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	17.8	16.2	14.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.4
85°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	1.0	2.0
82.5°	0.0	0.0	0.0	0.1	1.1	1.7	1.9	1.7	0.9	0.2	0.5
80°	0.0	0.0	0.0	0.2	1.6	3.5	4.3	4.4	3.4	2.4	1.3
77.5°	0.0	0.0	0.0	0.1	0.7	1.9	3.7	5.9	5.9	4.5	3.2
75°	0.0	0.0	0.0	0.3	0.4	0.1	1.4	3.4	5.3	6.4	5.1
72.5°	0.0	0.0	0.0	0.8	1.7	1.8	1.1	1.1	3.8	5.5	6.4
70°	1.0	0.4	0.0	1.1	2.7	4.0	3.7	3.0	2.5	4.8	6.1
67.5°	3.1	3.3	2.4	1.8	2.9	4.5	6.1	5.8	5.0	4.2	6.0
65°	7.6	7.0	6.4	5.7	4.9	4.8	6.3	8.0	7.6	6.5	5.9
62.5°	11.4	11.3	10.4	9.5	8.4	7.3	6.8	9.0	9.9	8.7	7.3
60°	14.5	15.2	14.5	13.3	12.0	10.6	9.7	10.2	11.3	11.0	9.3
57.5°	20.1	19.6	19.3	17.5	15.5	13.9	13.0	12.7	13.0	12.9	11.2
55°	35.5	24.7	24.9	23.0	19.8	17.1	16.4	15.8	15.0	14.8	13.2
52.5°	90.0	50.0	32.0	29.6	25.8	21.1	19.7	18.8	17.8	16.9	15.0
50°	166.2	107.6	60.9	38.2	32.6	27.7	23.0	21.9	20.6	19.2	16.8
47.5°	266.0	185.0	120.2	60.3	42.1	34.7	28.8	24.9	23.3	21.6	18.6
45°	409.7	272.5	188.9	119.3	56.0	47.9	35.6	27.9	26.0	23.9	20.4
42.5°	570.0	399.9	265.1	180.3	107.0	66.3	42.7	33.8	28.7	26.3	22.4
40°	727.2	552.6	356.1	248.6	161.5	88.9	61.4	40.4	31.4	28.9	24.6
37.5°	901.2	714.2	498.8	321.5	217.0	135.7	84.2	47.1	35.7	31.6	26.9
35°	1116.4	893.4	641.7	428.4	287.4	179.1	109.4	59.9	43.8	34.4	29.2
32.5°	1331.2	1072.4	796.0	552.6	360.9	219.1	142.4	85.5	53.4	37.4	31.7
30°	1547.5	1236.3	941.3	667.6	445.6	283.3	177.8	110.4	64.3	40.5	34.1
27.5°	1742.2	1391.0	1077.4	787.7	544.9	351.1	214.9	134.5	76.4	45.8	36.7
25°	1962.1	1558.2	1211.3	902.6	635.6	421.8	252.9	158.1	94.2	55.2	39.2
22.5°	2245.1	1729.9	1335.4	1006.7	725.5	489.5	301.8	189.2	113.6	65.1	41.7
20°	2526.5	1897.8	1457.0	1137.2	823.3	565.6	358.4	220.2	132.1	75.3	44.3
17.5°	2802.5	2112.8	1633.9	1270.4	927.9	636.7	411.3	250.7	149.6	85.8	46.8
15°	3050.1	2359.2	1807.8	1396.5	1030.3	702.6	460.2	280.3	165.9	96.2	50.0
12.5°	3258.1	2571.5	1971.5	1514.4	1129.0	762.7	504.9	308.6	181.0	107.9	54.5
10°	3429.8	2751.2	2123.3	1623.4	1222.2	816.8	545.1	337.0	198.7	120.3	59.3
7.5°	3567.1	2899.6	2261.5	1722.4	1306.9	867.3	588.4	366.9	215.8	132.0	64.1
5°	3670.3	3015.3	2368.2	1793.3	1374.1	913.8	628.3	394.4	231.7	143.1	68.8
2.5°	3737.4	3100.5	2447.4	1849.0	1428.9	953.0	663.4	419.1	246.2	153.1	73.4
0°	3776.9	3161.5	2507.2	1891.7	1470.6	984.7	693.2	440.5	259.1	162.0	77.7
-2.5°	3812.3	3201.4	2559.4	1966.2	1499.3	1036.7	712.3	459.8	279.6	168.4	85.6
-5°	3823.9	3219.0	2593.6	2023.6	1516.6	1078.8	725.6	475.6	297.5	173.6	92.9
-7.5°	3804.2	3208.5	2605.6	2056.3	1524.7	1108.6	733.4	487.9	312.1	177.6	99.2
-10°	3760.4	3173.7	2589.8	2046.4	1535.7	1117.9	737.9	497.0	322.7	180.6	104.4
-12.5°	3695.4	3121.3	2555.7	2024.7	1533.8	1111.9	750.1	504.1	328.3	182.6	108.4
-15°	3610.3	3052.7	2503.7	1992.6	1515.4	1098.6	753.2	506.7	327.7	186.4	110.7
-17.5°	3510.1	2969.4	2433.9	1951.7	1479.5	1078.4	746.3	503.5	324.4	192.0	113.1
-20°	3409.8	2877.0	2351.2	1903.4	1425.2	1052.3	729.0	494.3	318.4	195.7	115.4

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



REPORT NUMBER: P627460 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3292.2	2770.9	2279.7	1836.0	1366.6	1020.7	700.6	478.6	309.9	197.3	116.4
-25°	3157.1	2646.9	2193.7	1743.3	1320.4	985.1	671.3	456.2	298.9	196.7	116.1
-27.5°	3004.3	2514.5	2092.5	1641.7	1272.3	935.3	643.5	439.8	289.5	193.9	114.3
-30°	2833.9	2389.8	1971.4	1544.1	1213.7	881.5	607.1	421.4	285.4	190.3	111.1
-32.5°	2650.2	2249.4	1841.3	1469.7	1146.9	825.6	575.0	400.6	278.2	185.7	111.3
-35°	2477.9	2096.7	1708.5	1383.9	1076.2	792.5	553.6	377.5	268.2	179.2	111.9
-37.5°	2293.3	1936.5	1603.4	1294.3	1001.7	754.5	536.1	367.2	255.2	170.9	111.5
-40°	2115.8	1784.6	1481.7	1209.0	946.5	711.7	508.8	355.7	242.7	160.8	110.0
-42.5°	1936.2	1641.8	1365.3	1116.2	894.5	670.3	473.7	338.0	232.6	155.1	107.5
-45°	1770.8	1494.3	1241.4	1035.2	836.7	617.3	446.7	315.9	220.3	150.9	105.2
-47.5°	1597.0	1344.1	1128.3	946.6	761.0	559.7	412.5	298.4	205.4	145.5	103.7
-50°	1417.6	1201.9	1022.4	849.2	668.5	511.6	375.8	277.6	200.1	141.2	101.1
-52.5°	1260.6	1077.0	914.2	749.0	598.6	455.4	348.0	255.3	193.0	137.6	97.6
-55°	1125.3	958.2	807.5	666.9	532.1	414.1	316.6	244.7	184.3	133.1	93.2
-57.5°	1005.9	848.1	720.0	593.7	476.5	374.3	294.4	232.0	175.1	126.8	89.3
-60°	889.7	760.2	640.4	527.9	424.7	339.9	277.1	217.5	164.2	118.9	84.9
-62.5°	782.3	668.2	564.1	462.4	378.3	311.9	257.3	200.6	151.2	109.0	79.1
-65°	669.7	572.5	484.5	404.6	336.1	279.2	231.8	181.4	134.2	97.1	71.6
-67.5°	552.6	481.3	412.6	345.9	290.0	242.3	202.4	155.9	114.3	83.3	62.9
-70°	460.2	397.4	339.1	286.9	241.3	202.3	165.4	126.0	92.2	71.4	53.6
-72.5°	366.3	315.1	267.4	225.8	193.3	160.2	126.6	96.4	76.4	58.9	43.8
-75°	271.2	236.5	205.4	176.5	147.2	118.3	96.5	76.6	60.2	45.8	37.0
-77.5°	196.8	171.8	148.8	130.6	110.4	91.2	72.8	56.2	45.6	38.0	31.0
-80°	133.7	120.5	107.9	95.0	78.8	63.5	52.5	43.2	36.7	30.6	25.0
-82.5°	84.2	77.2	70.9	64.4	55.0	46.5	39.0	32.6	27.7	23.1	20.3
-85°	49.9	46.2	42.5	38.9	33.7	29.1	26.8	24.8	22.7	20.6	18.4
-87.5°	28.2	27.8	27.3	26.8	25.5	24.3	23.1	22.1	20.3	18.4	16.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.9

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CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	13.0	11.4	9.8	8.1	6.5	6.5	6.5
87.5°	4.8	5.4	5.9	6.3	6.5	6.5	6.5
85°	3.2	4.4	5.4	6.1	6.5	6.5	6.5
82.5°	1.5	3.4	4.8	5.9	6.5	6.5	6.5
80°	0.3	2.4	4.3	5.7	6.5	6.5	6.5
77.5°	2.0	2.2	3.8	5.5	6.5	6.5	6.5
75°	3.6	3.2	3.6	5.4	6.5	6.5	6.5
72.5°	5.2	4.2	4.1	5.2	6.5	6.5	6.5
70°	6.5	5.2	4.7	5.2	6.5	6.5	6.5
67.5°	6.7	6.1	5.2	5.4	6.5	6.5	6.5
65°	6.9	6.7	5.7	5.6	6.5	6.5	6.5
62.5°	7.3	7.2	6.1	5.8	6.5	6.5	6.5
60°	7.7	7.8	6.5	6.0	6.5	6.5	6.5
57.5°	9.3	8.4	7.1	6.2	6.6	6.5	6.5
55°	10.9	9.1	7.8	6.3	6.7	6.5	6.5
52.5°	12.5	10.0	8.5	6.4	6.8	6.5	6.5
50°	14.1	11.3	9.2	6.5	6.9	6.5	6.5
47.5°	15.6	12.6	9.9	6.6	7.1	6.5	6.5
45°	17.1	13.8	10.7	7.2	7.3	6.5	6.5
42.5°	18.6	15.0	11.5	7.8	7.5	6.5	6.5
40°	20.1	16.2	12.4	8.6	7.7	6.5	6.5
37.5°	21.4	17.4	13.3	9.5	8.0	6.5	6.5
35°	22.8	18.5	14.2	10.3	8.3	6.5	6.5
32.5°	24.3	19.6	15.1	11.2	8.6	6.5	6.5
30°	26.2	20.6	15.9	12.0	8.9	6.5	6.5
27.5°	28.2	21.6	16.9	12.7	9.2	6.5	6.5
25°	30.1	22.6	17.9	13.5	9.5	6.5	6.5
22.5°	32.0	23.6	18.9	14.2	9.9	6.5	6.5
20°	33.8	24.8	19.8	14.9	10.3	6.5	6.5
17.5°	35.7	25.9	20.8	15.6	10.6	6.5	6.5
15°	37.5	27.0	21.6	16.2	11.0	6.5	6.5
12.5°	39.2	28.0	22.4	16.9	11.3	6.5	6.5
10°	40.7	29.0	23.2	17.4	11.7	6.5	6.5
7.5°	42.1	30.0	24.0	18.0	12.1	6.5	6.5
5°	43.3	30.8	24.7	18.5	12.4	6.5	6.5
2.5°	44.4	31.6	25.3	19.0	12.7	6.5	6.5
0°	45.3	32.4	25.9	19.4	13.0	6.5	6.5
-2.5°	47.8	33.1	26.4	19.4	13.0	6.5	6.5
-5°	50.1	33.7	26.9	19.3	13.0	6.5	6.5
-7.5°	52.2	34.3	27.3	19.2	12.9	6.5	6.5
-10°	53.8	34.8	27.6	19.1	12.8	6.5	6.5
-12.5°	55.1	35.2	27.8	18.9	12.7	6.5	6.5
-15°	55.9	35.5	27.9	18.7	12.6	6.5	6.5
-17.5°	56.2	35.8	27.9	18.5	12.4	6.5	6.5
-20°	57.7	36.0	27.7	18.2	12.2	6.5	6.5

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CATALOG NUMBER: GFLD-SA4D-735-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	61.4	36.2	27.4	17.9	12.0	6.5	6.5
-25°	64.4	38.6	26.9	17.6	11.8	6.5	6.5
-27.5°	66.8	41.6	26.2	17.2	11.5	6.5	6.5
-30°	68.4	44.2	25.6	16.8	11.3	6.5	6.5
-32.5°	69.2	46.3	26.5	16.4	11.0	6.5	6.5
-35°	71.1	48.0	27.2	15.9	10.6	6.5	6.5
-37.5°	73.0	49.1	27.7	15.4	10.3	6.5	6.5
-40°	74.2	49.5	27.9	14.9	10.0	6.5	6.5
-42.5°	74.5	49.5	28.1	14.6	9.6	6.5	6.5
-45°	74.2	49.1	28.2	14.7	9.2	6.5	6.5
-47.5°	73.0	48.4	28.0	14.6	8.8	6.5	6.5
-50°	71.5	47.2	27.5	14.4	8.4	6.5	6.5
-52.5°	69.5	45.8	26.7	14.1	7.9	6.5	6.5
-55°	67.0	43.9	25.6	13.7	7.5	6.5	6.5
-57.5°	64.1	41.5	24.1	13.2	7.0	6.5	6.5
-60°	60.5	38.7	22.5	12.6	6.5	6.5	6.5
-62.5°	55.7	35.4	21.2	12.0	6.5	6.5	6.5
-65°	50.2	31.8	19.8	11.2	6.5	6.5	6.5
-67.5°	44.1	28.5	18.3	10.3	6.5	6.5	6.5
-70°	37.6	25.9	16.6	9.4	6.5	6.5	6.5
-72.5°	33.2	23.1	14.8	9.1	6.5	6.5	6.5
-75°	28.9	20.1	12.9	9.1	6.5	6.5	6.5
-77.5°	24.4	17.0	12.2	9.0	6.5	6.5	6.5
-80°	19.7	15.3	11.8	8.8	6.5	6.5	6.5
-82.5°	17.8	14.4	11.3	8.7	6.5	6.5	6.5
-85°	16.3	13.4	10.8	8.5	6.5	6.5	6.5
-87.5°	14.6	12.4	10.3	8.3	6.5	6.5	6.5
-90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5

(END OF REPORT)