

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: P645441 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA3E-727-U-LAM-VSR-XX

Issue Date: 2/28/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P645441 (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-SA3E-727-U-LAM-VSR-XX  
Description: GALLEON FLOOD, THREE LIGHT SQAURE, LAMBERTIAN WITH VISOR  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15897.1 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')

NEMA Type: 7H x 7V  
Max Intensity: 6779.7 candela  
Max Intensity Angle: 0°H x -20°V

Beam Angle (50%): 105.6°H x 93.7°V  
Beam Lumens: 12427.4 lumens  
Beam Efficiency: 78.2%

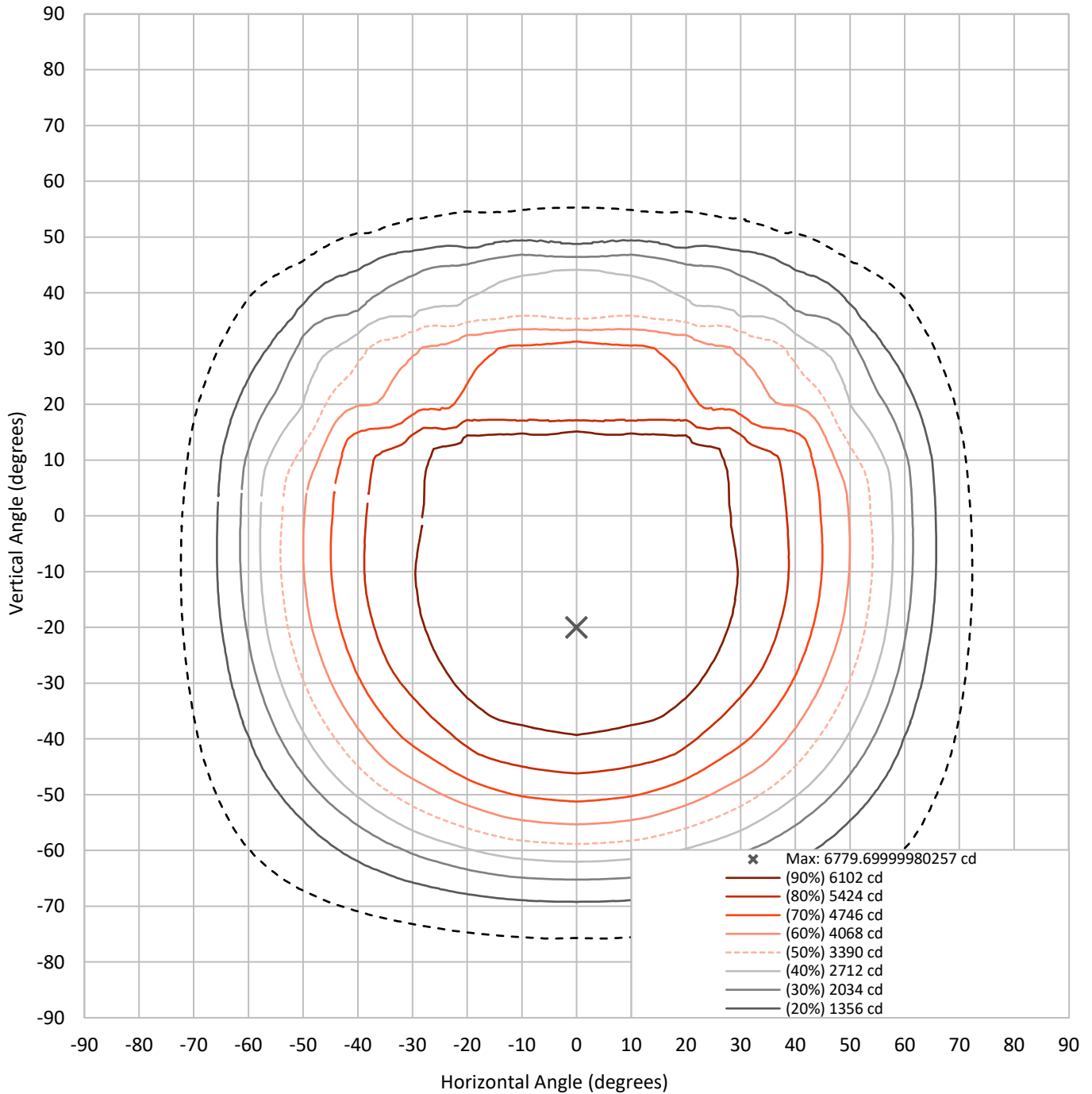
Field Angle (10%): 144°H x 131.2°V  
Field Lumens: 15581.4 lumens  
Field Efficiency: 98.0%

Input Watts (W): 185.2  
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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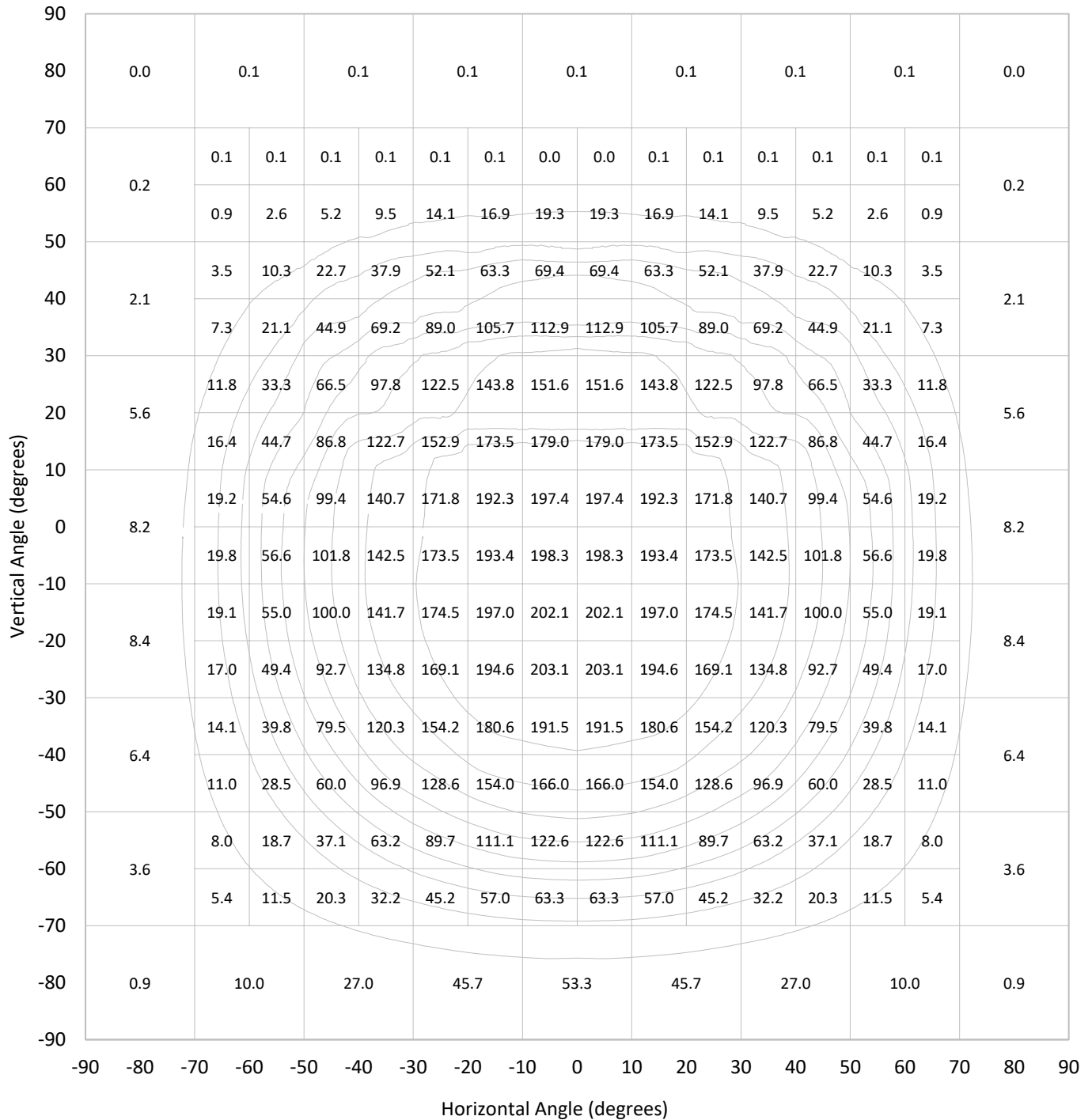
### Iso-Candela Plot





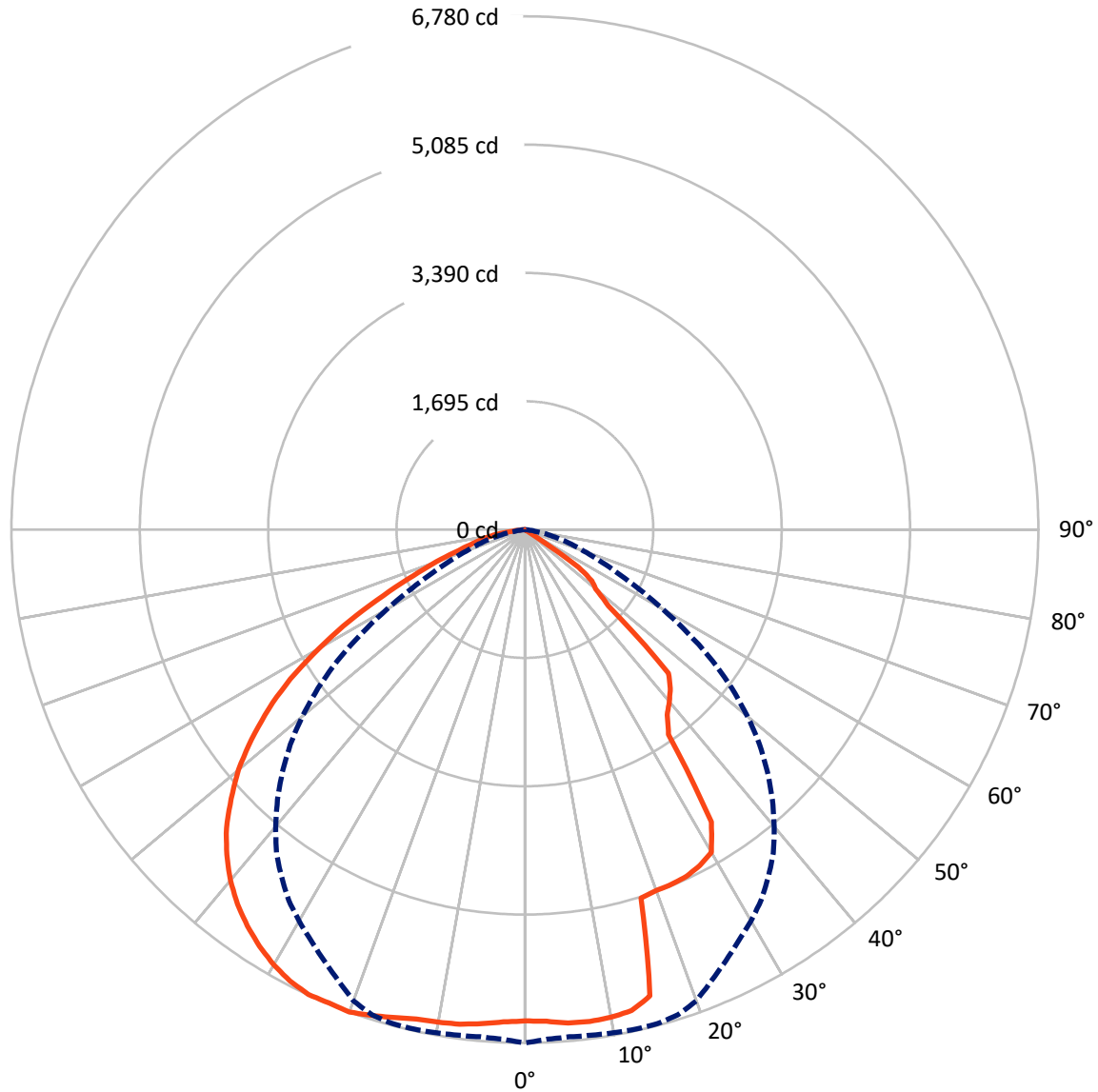
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### Lumen Table



REPORT NUMBER: P645441 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Luminous Intensity Polar Plot

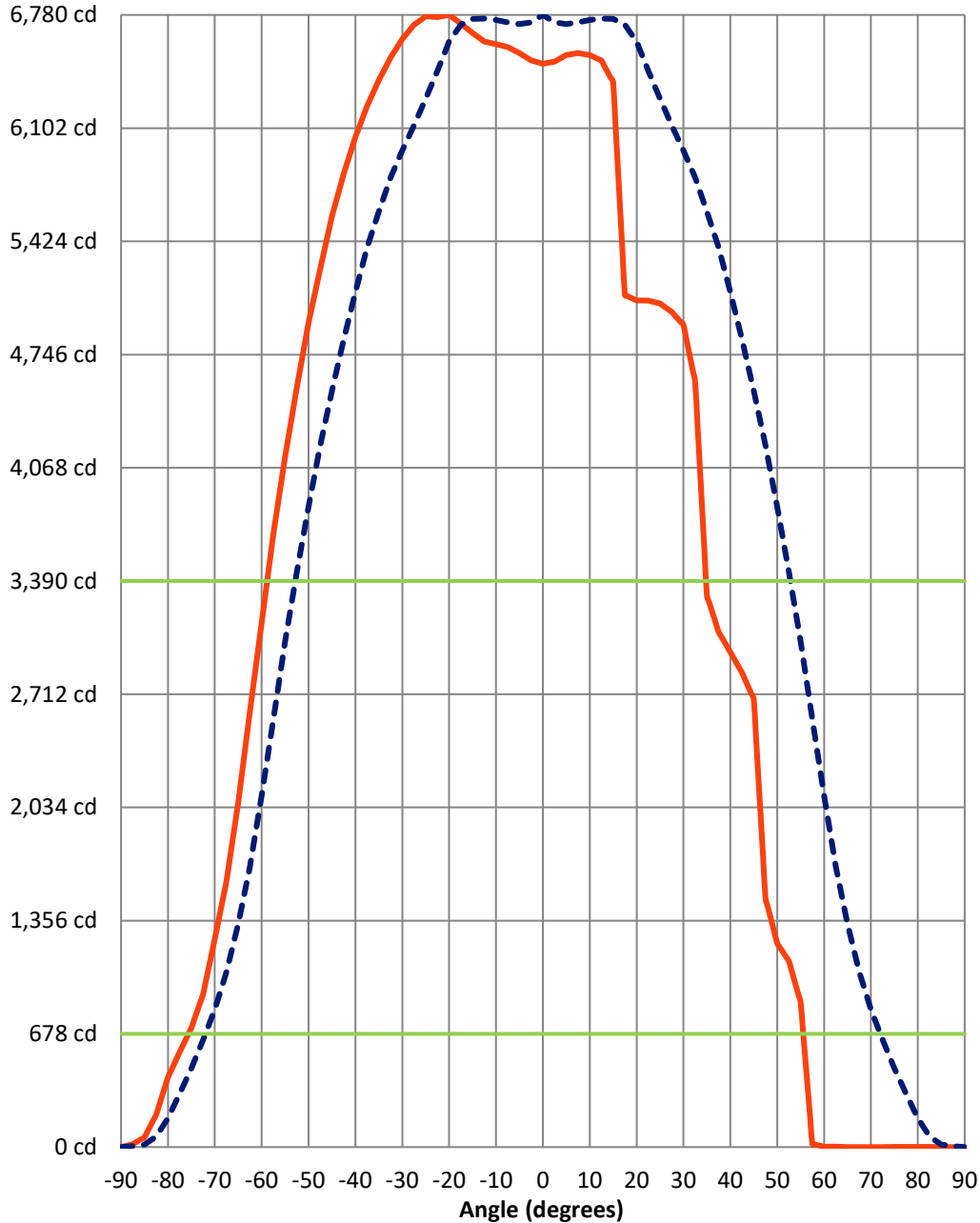


— Vertical Distribution Through 0-Deg    - - - Horizontal Distribution Through -20-Deg



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 105.6°  
 V Angle: 93.7°  
 Lumens: 12427.4  
 Efficiency: 78.2%

**Field:**  
 H Angle: 144°  
 V Angle: 131.2°  
 Lumens: 15581.4  
 Efficiency: 98.0%

**Spill:**  
 Lumens: 315.7  
 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	0.5	0.6	0.8	0.8	0.7	0.7	0.6
85°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.5	1.5	1.4	1.2
82.5°	0.0	0.5	0.8	1.1	1.5	1.9	2.2	2.3	2.2	1.8	1.4
80°	0.0	0.6	1.0	1.5	2.0	2.5	2.9	2.6	2.2	1.8	1.5
77.5°	0.0	0.8	1.3	1.9	2.5	2.9	2.9	2.6	2.2	1.8	1.5
75°	0.0	0.9	1.5	2.2	2.9	3.0	2.9	2.6	2.2	1.9	1.5
72.5°	0.0	1.1	1.8	2.6	3.1	3.1	3.0	2.6	2.3	1.9	1.6
70°	0.0	1.2	2.0	2.9	3.2	3.2	3.1	2.7	2.3	2.0	2.3
67.5°	0.0	1.4	2.3	3.1	3.3	3.3	3.4	2.7	2.4	3.2	3.3
65°	0.0	1.5	2.6	3.2	3.5	3.8	3.9	2.8	3.8	4.5	5.7
62.5°	0.0	1.7	2.8	3.3	3.6	4.8	4.5	3.9	5.4	7.9	12.6
60°	0.0	1.8	3.1	3.5	3.8	5.8	5.4	5.5	7.0	20.1	21.9
57.5°	0.0	2.0	3.2	3.6	4.9	7.0	9.9	7.7	19.7	34.1	39.7
55°	0.0	2.1	3.4	3.8	6.1	8.2	15.8	12.5	36.5	52.7	64.2
52.5°	0.0	2.3	3.6	3.9	7.4	10.5	22.7	31.7	54.8	82.7	93.1
50°	0.0	2.4	3.7	4.1	8.7	18.0	30.5	53.6	78.4	116.0	145.5
47.5°	0.0	2.6	3.9	4.5	10.1	26.0	41.1	76.5	112.9	152.8	199.0
45°	0.0	2.7	4.1	5.6	11.5	34.5	61.9	100.5	151.6	199.2	250.9
42.5°	0.0	2.8	4.2	6.7	13.0	43.6	83.3	130.9	191.0	244.4	310.8
40°	0.0	2.9	4.4	8.1	17.5	53.3	105.2	165.5	231.5	288.6	375.0
37.5°	0.0	3.1	4.6	9.8	25.1	63.4	127.5	200.2	274.0	341.8	441.9
35°	0.0	3.2	4.8	11.8	32.7	78.8	150.1	234.8	317.2	407.2	521.0
32.5°	0.0	3.3	5.0	13.9	40.5	96.6	174.7	269.4	360.9	472.9	617.3
30°	0.0	3.4	5.2	16.2	48.3	114.4	202.7	304.2	405.0	538.8	709.6
27.5°	0.0	3.5	5.4	18.6	58.0	131.9	230.2	340.5	453.4	604.6	797.8
25°	0.0	3.6	5.5	21.2	67.9	149.1	257.1	376.4	508.1	676.5	882.0
22.5°	0.0	3.7	5.7	23.9	77.8	166.6	283.1	411.8	561.7	748.3	967.1
20°	0.0	3.8	5.9	26.7	87.5	185.5	308.3	446.4	613.9	816.0	1050.2
17.5°	0.0	3.9	6.1	29.5	97.2	203.7	333.2	480.0	664.4	879.6	1130.7
15°	0.0	4.0	6.3	32.3	106.6	221.2	357.2	511.2	713.0	938.9	1208.0
12.5°	0.0	4.1	6.4	35.2	115.6	237.9	379.6	539.1	751.7	993.9	1281.6
10°	0.0	4.1	6.6	37.9	124.3	253.7	400.3	564.7	780.6	1026.8	1341.5
7.5°	0.0	4.2	6.8	40.6	132.5	268.5	419.4	588.1	805.2	1052.3	1376.5
5°	0.0	4.2	6.9	43.2	140.1	282.1	436.8	609.1	825.7	1072.9	1404.9
2.5°	0.0	4.3	7.1	45.6	147.1	294.4	452.4	627.8	842.4	1088.8	1426.7
0°	0.0	4.3	7.2	47.8	153.4	305.4	466.1	644.1	855.4	1100.0	1441.6
-2.5°	0.0	4.5	8.3	50.9	159.2	312.4	472.9	653.6	860.1	1114.2	1451.3
-5°	0.0	4.8	9.4	53.8	164.2	317.9	477.9	660.5	861.7	1123.4	1454.4
-7.5°	0.0	5.0	10.5	56.3	168.3	321.9	481.1	664.9	860.5	1127.2	1451.2
-10°	0.0	5.2	11.6	58.5	171.4	324.4	482.5	666.5	856.9	1125.0	1442.0
-12.5°	0.0	5.4	12.6	60.4	173.4	325.4	482.3	665.4	850.9	1115.9	1426.2
-15°	0.0	5.6	13.5	61.9	174.4	324.9	480.4	661.5	844.2	1098.2	1403.2
-17.5°	0.0	5.8	14.4	63.0	174.3	323.0	476.9	653.5	836.0	1076.1	1373.3
-20°	0.0	5.9	15.2	63.6	173.0	319.6	471.4	642.1	824.3	1049.8	1336.5

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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	6.0	15.9	63.8	170.6	314.7	463.5	628.5	809.1	1019.4	1292.7
-25°	0.0	6.1	16.6	63.5	167.0	307.1	453.8	612.6	790.3	985.2	1242.0
-27.5°	0.0	6.2	17.1	62.7	162.1	297.7	442.3	594.6	767.9	952.0	1197.1
-30°	0.0	6.2	17.5	61.4	156.0	287.0	429.0	574.5	743.4	924.0	1149.2
-32.5°	0.0	6.3	17.9	59.6	148.9	275.0	413.8	555.9	717.4	891.7	1097.9
-35°	0.0	6.2	18.1	57.3	141.0	261.7	397.5	536.3	689.3	855.0	1043.5
-37.5°	0.0	6.2	18.3	54.4	132.4	248.4	379.9	514.6	659.2	814.0	989.8
-40°	0.0	6.2	18.3	51.0	122.9	236.4	360.9	490.9	627.2	775.3	936.8
-42.5°	0.0	6.1	18.2	47.4	115.7	223.4	340.7	465.3	596.2	734.4	879.7
-45°	0.0	5.9	18.0	43.7	110.8	209.7	319.2	438.7	564.6	690.8	820.5
-47.5°	0.0	5.8	17.6	39.4	105.0	195.1	296.4	412.1	530.6	645.0	769.3
-50°	0.0	5.6	17.2	38.0	98.4	179.8	277.4	384.3	493.1	603.0	715.7
-52.5°	0.0	5.4	16.6	37.3	90.9	163.8	258.3	355.1	457.3	559.8	660.7
-55°	0.0	5.2	16.0	36.1	82.6	151.6	238.5	325.7	421.3	515.3	611.9
-57.5°	0.0	4.9	15.2	34.5	73.5	139.3	218.0	302.3	384.1	472.7	562.0
-60°	0.0	4.7	14.3	32.6	63.9	125.8	197.2	276.4	346.8	429.7	512.1
-62.5°	0.0	4.4	13.5	30.3	59.4	111.3	178.2	248.2	312.3	385.5	463.3
-65°	0.0	4.0	12.5	27.6	54.2	95.7	157.7	219.0	275.8	341.1	413.3
-67.5°	0.0	3.7	11.5	24.6	48.4	82.8	136.0	190.0	237.4	294.8	359.4
-70°	0.0	3.3	10.4	21.4	42.1	72.4	113.2	160.2	202.9	246.4	301.9
-72.5°	0.0	3.0	9.2	18.8	35.3	61.3	95.7	129.9	167.8	206.3	245.2
-75°	0.0	2.6	8.0	16.4	28.1	49.5	78.3	104.7	132.1	165.6	199.6
-77.5°	0.0	2.2	6.8	13.8	23.2	37.2	59.9	80.9	102.7	126.3	153.3
-80°	0.0	1.7	5.5	11.1	18.8	28.3	40.9	56.7	73.6	91.9	111.5
-82.5°	0.0	1.3	4.1	8.4	14.2	21.4	30.1	36.4	44.0	56.9	70.8
-85°	0.0	0.9	2.8	5.6	9.5	14.4	20.2	24.3	28.7	33.2	37.9
-87.5°	0.0	0.4	1.4	2.8	4.8	7.2	10.1	12.2	14.4	16.6	19.0
-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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 CATALOG NUMBER: GFLD-SA3E-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°	0.6	0.7	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1
85°	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.6	1.8	1.8	1.6	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	2.3	2.3	2.0	1.6	1.4	1.5	1.6	1.6	1.4	1.4	1.4
67.5°	2.8	2.4	2.1	2.0	2.0	2.2	2.1	1.7	1.4	1.4	1.4
65°	2.9	2.5	3.6	4.1	3.0	2.6	2.2	1.8	1.9	2.0	2.1
62.5°	4.3	5.4	6.9	12.2	9.1	2.7	4.8	5.6	4.1	3.4	3.7
60°	14.1	9.6	28.5	40.9	25.5	9.3	11.4	37.8	32.8	6.1	20.5
57.5°	29.7	40.8	75.1	76.5	52.9	36.5	106.2	122.6	92.8	54.2	82.8
55°	65.4	100.5	124.6	115.3	125.9	190.7	226.6	203.5	171.3	263.6	336.8
52.5°	127.8	163.7	171.8	197.3	282.4	324.4	310.8	332.4	431.1	535.4	558.0
50°	188.7	218.0	240.9	348.3	414.9	419.1	450.0	547.7	679.4	743.2	727.8
47.5°	247.6	278.0	384.3	487.5	517.5	558.4	635.7	824.4	963.8	966.6	950.8
45°	309.8	390.9	526.7	594.0	642.5	721.8	908.5	1168.8	1182.3	1220.1	1452.7
42.5°	376.4	518.5	637.0	707.0	785.3	933.2	1182.4	1353.2	1411.9	1577.5	1764.6
40°	484.2	641.7	745.2	834.7	935.5	1151.2	1424.2	1584.2	1631.9	1775.2	1915.8
37.5°	593.6	744.6	860.6	968.5	1108.2	1399.5	1715.3	1847.2	1871.4	1897.5	2209.2
35°	698.9	850.1	989.0	1130.2	1301.6	1720.9	1996.8	2120.9	2117.1	2294.0	2620.3
32.5°	797.4	958.0	1121.9	1310.8	1593.5	2023.1	2299.2	2373.5	2486.1	2743.6	3188.9
30°	895.7	1078.3	1266.5	1491.6	1849.7	2222.1	2537.3	2656.8	2849.8	3143.6	3467.7
27.5°	997.0	1201.7	1429.3	1693.0	2051.9	2394.2	2663.4	2949.0	3136.5	3399.8	3630.4
25°	1097.9	1332.3	1590.0	1869.1	2196.5	2515.5	2793.9	3123.7	3325.1	3537.3	3752.5
22.5°	1203.7	1464.7	1755.7	2008.7	2318.3	2618.6	2950.0	3307.7	3569.6	3704.5	3848.9
20°	1314.3	1608.0	1918.4	2198.6	2438.6	2714.3	3106.8	3541.4	3879.5	4031.2	4051.0
17.5°	1423.3	1746.8	2080.5	2383.9	2642.8	2888.2	3271.3	3821.3	4241.7	4382.8	4445.6
15°	1529.6	1880.3	2241.8	2564.2	2848.4	3148.5	3557.7	4117.0	4597.6	4753.7	4852.5
12.5°	1632.2	2007.6	2400.5	2738.6	3054.2	3390.8	3817.7	4329.7	4768.4	5070.4	5251.6
10°	1730.0	2127.8	2554.4	2906.0	3257.7	3615.6	4032.9	4488.2	4845.3	5136.6	5393.8
7.5°	1779.3	2206.4	2686.8	3065.3	3456.0	3823.3	4209.0	4599.9	4900.6	5186.3	5435.0
5°	1812.8	2238.7	2728.1	3120.8	3561.4	3961.9	4336.4	4673.2	4936.8	5219.9	5462.9
2.5°	1836.7	2259.6	2756.1	3151.1	3601.0	4004.5	4373.1	4697.8	4966.6	5244.0	5492.8
0°	1851.2	2269.6	2770.4	3169.8	3625.8	4032.5	4394.4	4707.0	4986.4	5255.6	5523.4
-2.5°	1859.4	2300.0	2779.9	3217.9	3649.7	4056.7	4424.2	4729.4	5021.3	5277.4	5545.9
-5°	1858.4	2318.0	2777.4	3250.2	3661.2	4066.1	4439.1	4739.5	5040.2	5293.8	5555.1
-7.5°	1848.3	2322.2	2764.8	3260.3	3661.6	4062.9	4432.5	4744.3	5039.9	5308.9	5555.9
-10°	1830.4	2305.8	2753.2	3234.1	3647.6	4046.4	4412.5	4733.7	5028.2	5305.8	5551.1
-12.5°	1809.1	2272.0	2729.1	3196.5	3619.0	4015.6	4382.2	4706.6	5006.1	5283.1	5540.0
-15°	1777.3	2226.9	2689.4	3148.6	3575.6	3970.8	4342.7	4662.4	4972.2	5243.5	5507.2
-17.5°	1734.5	2171.2	2633.6	3091.8	3517.1	3912.4	4292.1	4604.0	4912.3	5192.6	5447.1
-20°	1680.6	2105.1	2561.2	3027.3	3442.8	3834.0	4201.8	4528.4	4834.7	5119.8	5387.3

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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°	1615.4	2029.1	2473.9	2940.2	3350.1	3736.8	4100.3	4432.1	4749.5	5025.3	5310.3
-25°	1550.1	1948.8	2377.4	2819.7	3242.4	3627.5	3992.0	4315.3	4639.7	4926.6	5197.3
-27.5°	1487.6	1855.6	2265.5	2687.0	3120.4	3503.7	3864.9	4188.4	4503.3	4817.0	5077.6
-30°	1417.4	1747.8	2142.7	2545.4	2967.8	3358.1	3722.0	4057.6	4357.4	4667.1	4947.0
-32.5°	1339.9	1633.5	2013.1	2400.4	2798.8	3197.6	3558.2	3891.6	4203.4	4496.3	4790.1
-35°	1264.2	1541.2	1875.7	2244.8	2619.6	3011.0	3371.8	3701.9	4025.5	4315.7	4596.5
-37.5°	1196.1	1441.2	1729.7	2082.3	2440.5	2810.6	3177.5	3497.2	3805.1	4124.2	4397.9
-40°	1122.4	1333.8	1603.2	1914.9	2252.5	2604.4	2955.8	3286.5	3575.9	3891.2	4192.4
-42.5°	1045.2	1246.4	1478.4	1737.7	2056.4	2388.2	2727.4	3050.8	3351.5	3648.8	3947.2
-45°	977.6	1153.8	1351.4	1588.3	1847.8	2159.9	2481.1	2803.5	3092.0	3375.4	3670.1
-47.5°	905.7	1060.8	1243.5	1432.7	1658.3	1919.2	2221.2	2518.6	2813.9	3083.6	3344.4
-50°	834.1	977.1	1127.2	1297.5	1483.7	1695.2	1946.0	2222.5	2492.2	2769.1	3027.4
-52.5°	772.4	889.0	1024.6	1166.8	1326.2	1501.2	1702.1	1929.1	2174.5	2409.5	2667.2
-55°	708.4	813.5	923.0	1048.1	1180.7	1328.5	1493.2	1684.0	1871.2	2088.5	2298.9
-57.5°	650.0	738.6	832.0	935.3	1050.5	1168.8	1312.7	1461.2	1631.1	1799.9	1966.5
-60°	595.0	667.4	746.6	834.1	926.7	1031.9	1139.4	1266.9	1403.7	1538.5	1679.8
-62.5°	539.5	600.4	664.9	737.6	818.3	897.8	989.6	1087.8	1188.5	1302.8	1414.2
-65°	482.4	531.6	586.4	646.6	711.0	778.8	849.3	922.0	1007.7	1091.4	1172.4
-67.5°	421.8	463.9	508.2	555.6	609.6	662.8	715.9	777.4	840.4	902.4	966.6
-70°	354.6	394.3	431.3	469.7	509.8	551.5	596.9	642.0	686.4	732.9	784.4
-72.5°	286.2	322.8	355.3	383.8	416.7	451.3	484.5	516.1	549.6	584.9	619.8
-75°	228.3	252.5	281.5	308.0	334.2	358.6	380.5	407.3	435.3	460.9	482.0
-77.5°	178.2	200.2	220.0	237.8	258.7	283.1	304.4	322.6	340.4	359.8	380.4
-80°	129.7	147.9	166.0	182.4	194.4	208.2	224.5	243.2	259.4	272.6	284.6
-82.5°	83.7	96.9	110.3	124.0	129.6	133.4	136.9	143.4	153.4	163.3	172.8
-85°	41.7	45.5	53.7	62.1	65.0	67.1	68.5	69.2	72.6	75.8	78.5
-87.5°	20.9	22.8	24.7	26.5	25.6	24.2	22.5	20.5	20.0	19.4	18.7
-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: P645441 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA3E-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°	1.1	1.2	1.2	1.2	1.3	1.0	0.7	0.3	0.0	0.0	0.0
85°	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.0	0.7
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	0.9
65°	2.0	1.9	2.1	2.0	1.7	1.7	1.8	1.7	1.5	1.2	0.8
62.5°	3.6	4.1	3.2	3.2	3.1	3.1	2.9	2.7	2.6	2.4	2.5
60°	22.7	13.4	7.8	9.1	8.2	5.4	6.9	8.2	8.2	7.5	6.6
57.5°	125.8	94.0	69.6	166.1	166.6	79.6	95.8	150.6	124.0	40.7	37.8
55°	350.0	418.6	550.9	523.3	531.8	611.7	667.9	591.3	579.7	617.7	713.5
52.5°	628.8	694.2	738.7	780.3	831.0	885.5	941.6	977.4	1010.7	1046.3	1067.5
50°	802.9	895.1	958.4	935.1	1066.3	1120.0	1065.5	1114.2	1173.6	1189.9	1197.6
47.5°	1185.6	1320.8	1347.7	1434.7	1513.0	1511.3	1444.9	1448.7	1625.6	1781.6	1858.2
45°	1704.0	1708.5	1793.5	1947.3	2057.2	2022.6	2115.4	2326.3	2396.5	2464.4	2520.0
42.5°	1905.9	1989.5	2125.2	2261.1	2343.1	2414.1	2482.8	2560.4	2651.5	2725.4	2784.5
40°	2101.4	2168.8	2307.7	2417.2	2485.0	2551.4	2631.4	2717.3	2800.8	2865.7	2910.0
37.5°	2402.3	2454.6	2488.4	2590.0	2718.4	2659.1	2811.0	2919.9	2969.6	3035.6	3041.5
35°	2857.5	2822.8	2777.7	3182.4	3206.6	3069.9	3211.9	3380.7	3291.8	3477.1	3576.7
32.5°	3261.2	3256.0	3609.1	3821.9	3699.5	3799.4	4126.7	4112.2	4330.4	4431.7	4402.8
30°	3641.4	3771.1	3975.4	4133.8	4155.0	4312.6	4457.9	4585.3	4717.1	4835.2	4843.3
27.5°	3834.4	4003.7	4142.4	4234.1	4336.4	4468.9	4600.8	4744.3	4856.3	4930.4	4948.4
25°	3951.1	4124.2	4229.1	4327.8	4440.8	4555.1	4702.8	4859.1	4949.0	4994.7	5009.3
22.5°	4054.1	4209.6	4322.4	4402.5	4524.0	4647.1	4784.8	4917.0	5014.8	5034.7	5042.0
20°	4153.2	4302.6	4491.1	4609.0	4603.1	4741.7	4874.4	4979.6	5061.1	5060.6	5062.5
17.5°	4439.9	4493.2	4835.3	5095.0	4966.5	4898.6	5263.6	5270.5	5292.1	5249.1	5155.7
15°	4864.3	4961.4	5381.7	5663.2	5574.6	5569.9	6097.0	5966.3	6078.8	6049.4	6176.1
12.5°	5313.9	5428.8	5742.9	6019.4	6151.2	6183.5	6359.6	6524.6	6558.4	6545.1	6520.2
10°	5620.2	5783.9	5910.0	6077.8	6210.7	6346.3	6448.3	6566.7	6605.6	6583.1	6551.4
7.5°	5660.1	5821.8	5969.9	6117.2	6243.8	6353.0	6458.8	6555.2	6594.7	6581.7	6559.9
5°	5685.4	5831.9	5975.5	6124.9	6245.9	6347.1	6452.6	6550.3	6573.6	6558.0	6536.7
2.5°	5701.1	5836.7	5975.1	6123.8	6233.7	6330.1	6436.9	6541.1	6540.9	6534.1	6521.7
0°	5708.6	5844.7	6005.3	6140.0	6263.0	6354.2	6459.8	6561.2	6553.9	6535.1	6513.4
-2.5°	5724.9	5862.7	6026.7	6138.2	6277.0	6360.5	6469.7	6557.4	6554.1	6544.8	6534.1
-5°	5739.4	5894.4	6047.8	6165.1	6304.2	6413.4	6521.9	6590.6	6594.2	6581.3	6563.2
-7.5°	5748.2	5920.1	6066.4	6184.2	6319.1	6446.1	6556.2	6628.2	6629.8	6612.7	6591.1
-10°	5745.3	5926.7	6077.3	6199.1	6337.2	6462.6	6577.8	6669.0	6666.1	6649.8	6631.3
-12.5°	5734.4	5915.7	6070.4	6192.5	6349.3	6478.4	6607.9	6698.7	6703.6	6691.3	6671.3
-15°	5710.6	5897.7	6048.2	6181.6	6335.2	6486.2	6619.2	6719.4	6737.3	6727.3	6711.5
-17.5°	5663.4	5860.9	6020.5	6164.2	6311.7	6472.5	6623.9	6733.4	6757.9	6753.9	6740.8
-20°	5601.5	5805.3	5967.3	6117.9	6278.4	6444.1	6620.2	6720.3	6755.8	6758.0	6749.1

Classified

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

Scaled Data Report



REPORT NUMBER: P645441 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLD-SA3E-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°	5532.0	5731.5	5903.3	6051.4	6225.5	6393.2	6552.7	6669.9	6729.5	6740.5	6741.3
-25°	5448.6	5653.6	5824.4	5982.0	6144.0	6317.2	6478.3	6609.2	6669.6	6698.4	6707.4
-27.5°	5330.9	5542.7	5710.8	5877.4	6042.1	6221.1	6390.4	6532.7	6581.8	6621.5	6637.4
-30°	5192.9	5402.4	5573.7	5726.1	5914.5	6096.9	6271.8	6395.9	6470.0	6515.3	6540.1
-32.5°	5034.2	5245.7	5425.5	5584.6	5763.7	5946.1	6110.6	6241.6	6343.7	6396.0	6422.5
-35°	4862.2	5078.1	5266.4	5433.9	5602.6	5776.5	5946.8	6083.8	6200.2	6245.1	6278.4
-37.5°	4654.6	4892.8	5085.9	5258.7	5418.9	5582.4	5759.8	5916.4	6029.4	6073.1	6108.1
-40°	4441.9	4672.0	4866.7	5051.1	5209.5	5388.0	5558.9	5723.0	5821.1	5872.0	5911.6
-42.5°	4217.2	4425.2	4610.3	4789.4	4965.8	5149.5	5320.3	5490.9	5575.7	5637.0	5685.7
-45°	3957.9	4151.4	4331.3	4498.9	4680.8	4861.4	5032.3	5183.0	5283.9	5363.8	5425.9
-47.5°	3612.1	3847.9	4028.5	4187.9	4368.2	4542.5	4708.1	4849.9	4960.5	5053.9	5126.1
-50°	3261.0	3487.3	3691.0	3870.0	4037.3	4198.5	4356.1	4494.8	4611.9	4713.1	4786.2
-52.5°	2915.2	3127.2	3329.3	3514.2	3675.0	3827.1	3971.4	4110.9	4234.4	4342.6	4413.3
-55°	2524.5	2744.1	2944.0	3116.4	3277.1	3427.5	3569.9	3702.2	3823.8	3934.0	4001.7
-57.5°	2158.0	2350.6	2536.6	2695.8	2847.4	2990.6	3125.7	3252.3	3369.3	3473.0	3538.3
-60°	1821.0	1961.5	2121.6	2268.5	2402.9	2524.8	2650.8	2768.9	2876.4	2967.6	3028.4
-62.5°	1523.2	1639.6	1755.2	1867.0	1976.0	2085.5	2191.0	2288.9	2378.7	2453.4	2506.8
-65°	1257.9	1351.4	1435.0	1514.3	1589.8	1676.1	1756.3	1831.7	1901.6	1958.8	1999.4
-67.5°	1035.8	1101.5	1159.3	1213.7	1273.2	1334.3	1391.5	1441.3	1484.0	1517.9	1544.7
-70°	835.3	883.6	927.2	970.6	1014.1	1053.8	1091.6	1128.3	1163.1	1191.5	1212.8
-72.5°	654.2	687.2	716.9	750.3	781.6	811.7	837.9	859.0	875.4	891.4	905.3
-75°	498.7	523.5	557.0	585.3	608.7	629.3	648.3	665.1	680.0	693.1	704.7
-77.5°	401.2	422.2	443.5	464.2	484.1	498.9	512.7	526.5	540.0	551.6	561.9
-80°	297.3	313.0	329.5	346.0	362.5	370.7	377.3	383.3	388.7	395.6	402.1
-82.5°	181.7	190.7	199.8	209.1	218.3	220.7	221.5	221.3	220.1	217.5	213.7
-85°	80.8	81.3	81.1	80.2	78.6	75.4	71.5	67.0	61.9	61.1	60.2
-87.5°	17.8	17.4	16.9	16.4	15.8	15.7	15.6	15.5	15.4	15.9	16.4
-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: P645441 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA3E-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	0.3
85°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.0	1.3	1.3
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	1.4	0.7	0.0	0.7	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.0	0.7	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	0.5	0.1	0.0	0.0	0.0	0.1	0.5	0.9	1.2	1.4	1.4
65°	0.5	0.1	0.0	0.0	0.0	0.1	0.5	0.8	1.2	1.5	1.7
62.5°	2.7	2.8	2.9	2.9	2.9	2.8	2.7	2.5	2.4	2.6	2.7
60°	5.2	3.4	2.9	2.9	2.9	3.4	5.2	6.6	7.5	8.2	8.2
57.5°	32.0	23.8	20.3	18.8	20.3	23.8	32.0	37.8	40.7	124.0	150.6
55°	782.2	822.0	851.8	865.6	851.8	822.0	782.2	713.5	617.7	579.7	591.3
52.5°	1086.1	1103.4	1113.4	1113.1	1113.4	1103.4	1086.1	1067.5	1046.3	1010.7	977.4
50°	1210.6	1219.0	1222.0	1220.2	1222.0	1219.0	1210.6	1197.6	1189.9	1173.6	1114.2
47.5°	1788.2	1633.4	1519.6	1492.3	1519.6	1633.4	1788.2	1858.2	1781.6	1625.6	1448.7
45°	2546.7	2605.4	2663.9	2682.1	2663.9	2605.4	2546.7	2520.0	2464.4	2396.5	2326.3
42.5°	2809.5	2828.6	2839.4	2839.8	2839.4	2828.6	2809.5	2784.5	2725.4	2651.5	2560.4
40°	2934.8	2952.9	2963.3	2964.3	2963.3	2952.9	2934.8	2910.0	2865.7	2800.8	2717.3
37.5°	3048.7	3064.1	3074.2	3084.5	3074.2	3064.1	3048.7	3041.5	3035.6	2969.6	2919.9
35°	3563.2	3446.7	3279.0	3304.5	3279.0	3446.7	3563.2	3576.7	3477.1	3291.8	3380.7
32.5°	4448.0	4497.0	4527.6	4579.6	4527.6	4497.0	4448.0	4402.8	4431.7	4330.4	4112.2
30°	4856.2	4872.3	4896.8	4922.7	4896.8	4872.3	4856.2	4843.3	4835.2	4717.1	4585.3
27.5°	4958.0	4974.8	4989.7	5000.8	4989.7	4974.8	4958.0	4948.4	4930.4	4856.3	4744.3
25°	5011.4	5021.8	5037.6	5051.5	5037.6	5021.8	5011.4	5009.3	4994.7	4949.0	4859.1
22.5°	5037.8	5038.9	5051.3	5068.9	5051.3	5038.9	5037.8	5042.0	5034.7	5014.8	4917.0
20°	5056.0	5046.2	5059.0	5070.3	5059.0	5046.2	5056.0	5062.5	5060.6	5061.1	4979.6
17.5°	5287.4	5155.4	5101.2	5102.2	5101.2	5155.4	5287.4	5155.7	5249.1	5292.1	5270.5
15°	6033.9	6083.4	6273.3	6375.9	6273.3	6083.4	6033.9	6176.1	6049.4	6078.8	5966.3
12.5°	6515.6	6498.0	6475.4	6506.2	6475.4	6498.0	6515.6	6520.2	6545.1	6558.4	6524.6
10°	6537.9	6535.9	6495.7	6539.4	6495.7	6535.9	6537.9	6551.4	6583.1	6605.6	6566.7
7.5°	6524.2	6525.5	6508.4	6551.0	6508.4	6525.5	6524.2	6559.9	6581.7	6594.7	6555.2
5°	6533.3	6503.9	6515.0	6539.4	6515.0	6503.9	6533.3	6536.7	6558.0	6573.6	6550.3
2.5°	6508.0	6504.9	6483.3	6500.4	6483.3	6504.9	6508.0	6521.7	6534.1	6540.9	6541.1
0°	6488.8	6472.9	6472.9	6487.3	6472.9	6472.9	6488.8	6513.4	6535.1	6553.9	6561.2
-2.5°	6523.0	6519.6	6517.6	6507.6	6517.6	6519.6	6523.0	6534.1	6544.8	6554.1	6557.4
-5°	6551.1	6542.6	6518.8	6551.0	6518.8	6542.6	6551.1	6563.2	6581.3	6594.2	6590.6
-7.5°	6581.4	6559.4	6536.9	6587.2	6536.9	6559.4	6581.4	6591.1	6612.7	6629.8	6628.2
-10°	6609.1	6577.3	6555.4	6604.6	6555.4	6577.3	6609.1	6631.3	6649.8	6666.1	6669.0
-12.5°	6645.6	6608.5	6593.8	6620.5	6593.8	6608.5	6645.6	6671.3	6691.3	6703.6	6698.7
-15°	6684.6	6658.9	6655.4	6671.2	6655.4	6658.9	6684.6	6711.5	6727.3	6737.3	6719.4
-17.5°	6718.8	6700.7	6709.7	6727.6	6709.7	6700.7	6718.8	6740.8	6753.9	6757.9	6733.4
-20°	6735.1	6725.0	6735.1	6779.7	6735.1	6725.0	6735.1	6749.1	6758.0	6755.8	6720.3



REPORT NUMBER: P645441 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	6733.8	6734.4	6752.2	6766.7	6752.2	6734.4	6733.8	6741.3	6740.5	6729.5	6669.9
-25°	6708.1	6721.6	6741.9	6771.0	6741.9	6721.6	6708.1	6707.4	6698.4	6669.6	6609.2
-27.5°	6646.1	6668.6	6689.8	6720.4	6689.8	6668.6	6646.1	6637.4	6621.5	6581.8	6532.7
-30°	6556.5	6583.3	6602.2	6635.0	6602.2	6583.3	6556.5	6540.1	6515.3	6470.0	6395.9
-32.5°	6447.5	6477.8	6500.2	6523.5	6500.2	6477.8	6447.5	6422.5	6396.0	6343.7	6241.6
-35°	6311.2	6343.8	6367.6	6388.9	6367.6	6343.8	6311.2	6278.4	6245.1	6200.2	6083.8
-37.5°	6147.4	6182.6	6209.7	6234.0	6209.7	6182.6	6147.4	6108.1	6073.1	6029.4	5916.4
-40°	5956.6	5992.7	6021.6	6048.8	6021.6	5992.7	5956.6	5911.6	5872.0	5821.1	5723.0
-42.5°	5733.5	5770.0	5799.9	5827.3	5799.9	5770.0	5733.5	5685.7	5637.0	5575.7	5490.9
-45°	5475.9	5513.4	5545.0	5574.0	5545.0	5513.4	5475.9	5425.9	5363.8	5283.9	5183.0
-47.5°	5179.3	5219.3	5246.4	5259.9	5246.4	5219.3	5179.3	5126.1	5053.9	4960.5	4849.9
-50°	4839.2	4879.2	4911.7	4935.7	4911.7	4879.2	4839.2	4786.2	4713.1	4611.9	4494.8
-52.5°	4464.9	4503.0	4530.9	4547.8	4530.9	4503.0	4464.9	4413.3	4342.6	4234.4	4110.9
-55°	4055.0	4094.9	4121.4	4133.8	4121.4	4094.9	4055.0	4001.7	3934.0	3823.8	3702.2
-57.5°	3590.1	3628.0	3656.2	3672.1	3656.2	3628.0	3590.1	3538.3	3473.0	3369.3	3252.3
-60°	3075.9	3109.8	3131.2	3139.5	3131.2	3109.8	3075.9	3028.4	2967.6	2876.4	2768.9
-62.5°	2549.8	2581.9	2601.9	2609.7	2601.9	2581.9	2549.8	2506.8	2453.4	2378.7	2288.9
-65°	2029.7	2049.9	2061.0	2062.6	2061.0	2049.9	2029.7	1999.4	1958.8	1901.6	1831.7
-67.5°	1565.9	1581.2	1590.5	1593.6	1590.5	1581.2	1565.9	1544.7	1517.9	1484.0	1441.3
-70°	1228.7	1239.2	1245.2	1246.2	1245.2	1239.2	1228.7	1212.8	1191.5	1163.1	1128.3
-72.5°	916.0	923.6	921.0	914.8	921.0	923.6	916.0	905.3	891.4	875.4	859.0
-75°	714.6	722.9	719.5	713.6	719.5	722.9	714.6	704.7	693.1	680.0	665.1
-77.5°	570.9	578.5	574.7	568.8	574.7	578.5	570.9	561.9	551.6	540.0	526.5
-80°	407.7	412.1	415.3	416.9	415.3	412.1	407.7	402.1	395.6	388.7	383.3
-82.5°	208.7	202.6	198.7	194.0	198.7	202.6	208.7	213.7	217.5	220.1	221.3
-85°	59.0	57.6	58.5	59.3	58.5	57.6	59.0	60.2	61.1	61.9	67.0
-87.5°	16.9	17.3	17.4	17.4	17.4	17.3	16.9	16.4	15.9	15.4	15.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	1.0	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0
85°	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.7
65°	1.8	1.7	1.7	2.0	2.1	1.9	2.0	2.1	2.0	1.9	1.8
62.5°	2.9	3.1	3.1	3.2	3.2	4.1	3.6	3.7	3.4	4.1	5.6
60°	6.9	5.4	8.2	9.1	7.8	13.4	22.7	20.5	6.1	32.8	37.8
57.5°	95.8	79.6	166.6	166.1	69.6	94.0	125.8	82.8	54.2	92.8	122.6
55°	667.9	611.7	531.8	523.3	550.9	418.6	350.0	336.8	263.6	171.3	203.5
52.5°	941.6	885.5	831.0	780.3	738.7	694.2	628.8	558.0	535.4	431.1	332.4
50°	1065.5	1120.0	1066.3	935.1	958.4	895.1	802.9	727.8	743.2	679.4	547.7
47.5°	1444.9	1511.3	1513.0	1434.7	1347.7	1320.8	1185.6	950.8	966.6	963.8	824.4
45°	2115.4	2022.6	2057.2	1947.3	1793.5	1708.5	1704.0	1452.7	1220.1	1182.3	1168.8
42.5°	2482.8	2414.1	2343.1	2261.1	2125.2	1989.5	1905.9	1764.6	1577.5	1411.9	1353.2
40°	2631.4	2551.4	2485.0	2417.2	2307.7	2168.8	2101.4	1915.8	1775.2	1631.9	1584.2
37.5°	2811.0	2659.1	2718.4	2590.0	2488.4	2454.6	2402.3	2209.2	1897.5	1871.4	1847.2
35°	3211.9	3069.9	3206.6	3182.4	2777.7	2822.8	2857.5	2620.3	2294.0	2117.1	2120.9
32.5°	4126.7	3799.4	3699.5	3821.9	3609.1	3256.0	3261.2	3188.9	2743.6	2486.1	2373.5
30°	4457.9	4312.6	4155.0	4133.8	3975.4	3771.1	3641.4	3467.7	3143.6	2849.8	2656.8
27.5°	4600.8	4468.9	4336.4	4234.1	4142.4	4003.7	3834.4	3630.4	3399.8	3136.5	2949.0
25°	4702.8	4555.1	4440.8	4327.8	4229.1	4124.2	3951.1	3752.5	3537.3	3325.1	3123.7
22.5°	4784.8	4647.1	4524.0	4402.5	4322.4	4209.6	4054.1	3848.9	3704.5	3569.6	3307.7
20°	4874.4	4741.7	4603.1	4609.0	4491.1	4302.6	4153.2	4051.0	4031.2	3879.5	3541.4
17.5°	5263.6	4898.6	4966.5	5095.0	4835.3	4493.2	4439.9	4445.6	4382.8	4241.7	3821.3
15°	6097.0	5569.9	5574.6	5663.2	5381.7	4961.4	4864.3	4852.5	4753.7	4597.6	4117.0
12.5°	6359.6	6183.5	6151.2	6019.4	5742.9	5428.8	5313.9	5251.6	5070.4	4768.4	4329.7
10°	6448.3	6346.3	6210.7	6077.8	5910.0	5783.9	5620.2	5393.8	5136.6	4845.3	4488.2
7.5°	6458.8	6353.0	6243.8	6117.2	5969.9	5821.8	5660.1	5435.0	5186.3	4900.6	4599.9
5°	6452.6	6347.1	6245.9	6124.9	5975.5	5831.9	5685.4	5462.9	5219.9	4936.8	4673.2
2.5°	6436.9	6330.1	6233.7	6123.8	5975.1	5836.7	5701.1	5492.8	5244.0	4966.6	4697.8
0°	6459.8	6354.2	6263.0	6140.0	6005.3	5844.7	5708.6	5523.4	5255.6	4986.4	4707.0
-2.5°	6469.7	6360.5	6277.0	6138.2	6026.7	5862.7	5724.9	5545.9	5277.4	5021.3	4729.4
-5°	6521.9	6413.4	6304.2	6165.1	6047.8	5894.4	5739.4	5555.1	5293.8	5040.2	4739.5
-7.5°	6556.2	6446.1	6319.1	6184.2	6066.4	5920.1	5748.2	5555.9	5308.9	5039.9	4744.3
-10°	6577.8	6462.6	6337.2	6199.1	6077.3	5926.7	5745.3	5551.1	5305.8	5028.2	4733.7
-12.5°	6607.9	6478.4	6349.3	6192.5	6070.4	5915.7	5734.4	5540.0	5283.1	5006.1	4706.6
-15°	6619.2	6486.2	6335.2	6181.6	6048.2	5897.7	5710.6	5507.2	5243.5	4972.2	4662.4
-17.5°	6623.9	6472.5	6311.7	6164.2	6020.5	5860.9	5663.4	5447.1	5192.6	4912.3	4604.0
-20°	6620.2	6444.1	6278.4	6117.9	5967.3	5805.3	5601.5	5387.3	5119.8	4834.7	4528.4



REPORT NUMBER: P645441 (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°
-22.5°	6552.7	6393.2	6225.5	6051.4	5903.3	5731.5	5532.0	5310.3	5025.3	4749.5	4432.1
-25°	6478.3	6317.2	6144.0	5982.0	5824.4	5653.6	5448.6	5197.3	4926.6	4639.7	4315.3
-27.5°	6390.4	6221.1	6042.1	5877.4	5710.8	5542.7	5330.9	5077.6	4817.0	4503.3	4188.4
-30°	6271.8	6096.9	5914.5	5726.1	5573.7	5402.4	5192.9	4947.0	4667.1	4357.4	4057.6
-32.5°	6110.6	5946.1	5763.7	5584.6	5425.5	5245.7	5034.2	4790.1	4496.3	4203.4	3891.6
-35°	5946.8	5776.5	5602.6	5433.9	5266.4	5078.1	4862.2	4596.5	4315.7	4025.5	3701.9
-37.5°	5759.8	5582.4	5418.9	5258.7	5085.9	4892.8	4654.6	4397.9	4124.2	3805.1	3497.2
-40°	5558.9	5388.0	5209.5	5051.1	4866.7	4672.0	4441.9	4192.4	3891.2	3575.9	3286.5
-42.5°	5320.3	5149.5	4965.8	4789.4	4610.3	4425.2	4217.2	3947.2	3648.8	3351.5	3050.8
-45°	5032.3	4861.4	4680.8	4498.9	4331.3	4151.4	3957.9	3670.1	3375.4	3092.0	2803.5
-47.5°	4708.1	4542.5	4368.2	4187.9	4028.5	3847.9	3612.1	3344.4	3083.6	2813.9	2518.6
-50°	4356.1	4198.5	4037.3	3870.0	3691.0	3487.3	3261.0	3027.4	2769.1	2492.2	2222.5
-52.5°	3971.4	3827.1	3675.0	3514.2	3329.3	3127.2	2915.2	2667.2	2409.5	2174.5	1929.1
-55°	3569.9	3427.5	3277.1	3116.4	2944.0	2744.1	2524.5	2298.9	2088.5	1871.2	1684.0
-57.5°	3125.7	2990.6	2847.4	2695.8	2536.6	2350.6	2158.0	1966.5	1799.9	1631.1	1461.2
-60°	2650.8	2524.8	2402.9	2268.5	2121.6	1961.5	1821.0	1679.8	1538.5	1403.7	1266.9
-62.5°	2191.0	2085.5	1976.0	1867.0	1755.2	1639.6	1523.2	1414.2	1302.8	1188.5	1087.8
-65°	1756.3	1676.1	1589.8	1514.3	1435.0	1351.4	1257.9	1172.4	1091.4	1007.7	922.0
-67.5°	1391.5	1334.3	1273.2	1213.7	1159.3	1101.5	1035.8	966.6	902.4	840.4	777.4
-70°	1091.6	1053.8	1014.1	970.6	927.2	883.6	835.3	784.4	732.9	686.4	642.0
-72.5°	837.9	811.7	781.6	750.3	716.9	687.2	654.2	619.8	584.9	549.6	516.1
-75°	648.3	629.3	608.7	585.3	557.0	523.5	498.7	482.0	460.9	435.3	407.3
-77.5°	512.7	498.9	484.1	464.2	443.5	422.2	401.2	380.4	359.8	340.4	322.6
-80°	377.3	370.7	362.5	346.0	329.5	313.0	297.3	284.6	272.6	259.4	243.2
-82.5°	221.5	220.7	218.3	209.1	199.8	190.7	181.7	172.8	163.3	153.4	143.4
-85°	71.5	75.4	78.6	80.2	81.1	81.3	80.8	78.5	75.8	72.6	69.2
-87.5°	15.6	15.7	15.8	16.4	16.9	17.4	17.8	18.7	19.4	20.0	20.5
-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: P645441 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.6	0.7	0.7	0.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.4	1.5	1.5
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	2.2	2.3
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.8	2.2	2.6
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.8	2.2	2.6
75°	1.4	1.4	1.4	1.5	1.5	1.4	1.4	1.5	1.9	2.2	2.6
72.5°	1.4	1.4	1.4	1.6	1.8	1.8	1.6	1.6	1.9	2.3	2.6
70°	1.6	1.5	1.4	1.6	2.0	2.3	2.3	2.3	2.0	2.3	2.7
67.5°	2.1	2.2	2.0	2.0	2.1	2.4	2.8	3.3	3.2	2.4	2.7
65°	2.2	2.6	3.0	4.1	3.6	2.5	2.9	5.7	4.5	3.8	2.8
62.5°	4.8	2.7	9.1	12.2	6.9	5.4	4.3	12.6	7.9	5.4	3.9
60°	11.4	9.3	25.5	40.9	28.5	9.6	14.1	21.9	20.1	7.0	5.5
57.5°	106.2	36.5	52.9	76.5	75.1	40.8	29.7	39.7	34.1	19.7	7.7
55°	226.6	190.7	125.9	115.3	124.6	100.5	65.4	64.2	52.7	36.5	12.5
52.5°	310.8	324.4	282.4	197.3	171.8	163.7	127.8	93.1	82.7	54.8	31.7
50°	450.0	419.1	414.9	348.3	240.9	218.0	188.7	145.5	116.0	78.4	53.6
47.5°	635.7	558.4	517.5	487.5	384.3	278.0	247.6	199.0	152.8	112.9	76.5
45°	908.5	721.8	642.5	594.0	526.7	390.9	309.8	250.9	199.2	151.6	100.5
42.5°	1182.4	933.2	785.3	707.0	637.0	518.5	376.4	310.8	244.4	191.0	130.9
40°	1424.2	1151.2	935.5	834.7	745.2	641.7	484.2	375.0	288.6	231.5	165.5
37.5°	1715.3	1399.5	1108.2	968.5	860.6	744.6	593.6	441.9	341.8	274.0	200.2
35°	1996.8	1720.9	1301.6	1130.2	989.0	850.1	698.9	521.0	407.2	317.2	234.8
32.5°	2299.2	2023.1	1593.5	1310.8	1121.9	958.0	797.4	617.3	472.9	360.9	269.4
30°	2537.3	2222.1	1849.7	1491.6	1266.5	1078.3	895.7	709.6	538.8	405.0	304.2
27.5°	2663.4	2394.2	2051.9	1693.0	1429.3	1201.7	997.0	797.8	604.6	453.4	340.5
25°	2793.9	2515.5	2196.5	1869.1	1590.0	1332.3	1097.9	882.0	676.5	508.1	376.4
22.5°	2950.0	2618.6	2318.3	2008.7	1755.7	1464.7	1203.7	967.1	748.3	561.7	411.8
20°	3106.8	2714.3	2438.6	2198.6	1918.4	1608.0	1314.3	1050.2	816.0	613.9	446.4
17.5°	3271.3	2888.2	2642.8	2383.9	2080.5	1746.8	1423.3	1130.7	879.6	664.4	480.0
15°	3557.7	3148.5	2848.4	2564.2	2241.8	1880.3	1529.6	1208.0	938.9	713.0	511.2
12.5°	3817.7	3390.8	3054.2	2738.6	2400.5	2007.6	1632.2	1281.6	993.9	751.7	539.1
10°	4032.9	3615.6	3257.7	2906.0	2554.4	2127.8	1730.0	1341.5	1026.8	780.6	564.7
7.5°	4209.0	3823.3	3456.0	3065.3	2686.8	2206.4	1779.3	1376.5	1052.3	805.2	588.1
5°	4336.4	3961.9	3561.4	3120.8	2728.1	2238.7	1812.8	1404.9	1072.9	825.7	609.1
2.5°	4373.1	4004.5	3601.0	3151.1	2756.1	2259.6	1836.7	1426.7	1088.8	842.4	627.8
0°	4394.4	4032.5	3625.8	3169.8	2770.4	2269.6	1851.2	1441.6	1100.0	855.4	644.1
-2.5°	4424.2	4056.7	3649.7	3217.9	2779.9	2300.0	1859.4	1451.3	1114.2	860.1	653.6
-5°	4439.1	4066.1	3661.2	3250.2	2777.4	2318.0	1858.4	1454.4	1123.4	861.7	660.5
-7.5°	4432.5	4062.9	3661.6	3260.3	2764.8	2322.2	1848.3	1451.2	1127.2	860.5	664.9
-10°	4412.5	4046.4	3647.6	3234.1	2753.2	2305.8	1830.4	1442.0	1125.0	856.9	666.5
-12.5°	4382.2	4015.6	3619.0	3196.5	2729.1	2272.0	1809.1	1426.2	1115.9	850.9	665.4
-15°	4342.7	3970.8	3575.6	3148.6	2689.4	2226.9	1777.3	1403.2	1098.2	844.2	661.5
-17.5°	4292.1	3912.4	3517.1	3091.8	2633.6	2171.2	1734.5	1373.3	1076.1	836.0	653.5
-20°	4201.8	3834.0	3442.8	3027.3	2561.2	2105.1	1680.6	1336.5	1049.8	824.3	642.1



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4100.3	3736.8	3350.1	2940.2	2473.9	2029.1	1615.4	1292.7	1019.4	809.1	628.5
-25°	3992.0	3627.5	3242.4	2819.7	2377.4	1948.8	1550.1	1242.0	985.2	790.3	612.6
-27.5°	3864.9	3503.7	3120.4	2687.0	2265.5	1855.6	1487.6	1197.1	952.0	767.9	594.6
-30°	3722.0	3358.1	2967.8	2545.4	2142.7	1747.8	1417.4	1149.2	924.0	743.4	574.5
-32.5°	3558.2	3197.6	2798.8	2400.4	2013.1	1633.5	1339.9	1097.9	891.7	717.4	555.9
-35°	3371.8	3011.0	2619.6	2244.8	1875.7	1541.2	1264.2	1043.5	855.0	689.3	536.3
-37.5°	3177.5	2810.6	2440.5	2082.3	1729.7	1441.2	1196.1	989.8	814.0	659.2	514.6
-40°	2955.8	2604.4	2252.5	1914.9	1603.2	1333.8	1122.4	936.8	775.3	627.2	490.9
-42.5°	2727.4	2388.2	2056.4	1737.7	1478.4	1246.4	1045.2	879.7	734.4	596.2	465.3
-45°	2481.1	2159.9	1847.8	1588.3	1351.4	1153.8	977.6	820.5	690.8	564.6	438.7
-47.5°	2221.2	1919.2	1658.3	1432.7	1243.5	1060.8	905.7	769.3	645.0	530.6	412.1
-50°	1946.0	1695.2	1483.7	1297.5	1127.2	977.1	834.1	715.7	603.0	493.1	384.3
-52.5°	1702.1	1501.2	1326.2	1166.8	1024.6	889.0	772.4	660.7	559.8	457.3	355.1
-55°	1493.2	1328.5	1180.7	1048.1	923.0	813.5	708.4	611.9	515.3	421.3	325.7
-57.5°	1312.7	1168.8	1050.5	935.3	832.0	738.6	650.0	562.0	472.7	384.1	302.3
-60°	1139.4	1031.9	926.7	834.1	746.6	667.4	595.0	512.1	429.7	346.8	276.4
-62.5°	989.6	897.8	818.3	737.6	664.9	600.4	539.5	463.3	385.5	312.3	248.2
-65°	849.3	778.8	711.0	646.6	586.4	531.6	482.4	413.3	341.1	275.8	219.0
-67.5°	715.9	662.8	609.6	555.6	508.2	463.9	421.8	359.4	294.8	237.4	190.0
-70°	596.9	551.5	509.8	469.7	431.3	394.3	354.6	301.9	246.4	202.9	160.2
-72.5°	484.5	451.3	416.7	383.8	355.3	322.8	286.2	245.2	206.3	167.8	129.9
-75°	380.5	358.6	334.2	308.0	281.5	252.5	228.3	199.6	165.6	132.1	104.7
-77.5°	304.4	283.1	258.7	237.8	220.0	200.2	178.2	153.3	126.3	102.7	80.9
-80°	224.5	208.2	194.4	182.4	166.0	147.9	129.7	111.5	91.9	73.6	56.7
-82.5°	136.9	133.4	129.6	124.0	110.3	96.9	83.7	70.8	56.9	44.0	36.4
-85°	68.5	67.1	65.0	62.1	53.7	45.5	41.7	37.9	33.2	28.7	24.3
-87.5°	22.5	24.2	25.6	26.5	24.7	22.8	20.9	19.0	16.6	14.4	12.2
-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°	0.8	0.6	0.5	0.4	0.3	0.2	0.0
85°	1.5	1.3	1.0	0.8	0.5	0.3	0.0
82.5°	2.2	1.9	1.5	1.1	0.8	0.5	0.0
80°	2.9	2.5	2.0	1.5	1.0	0.6	0.0
77.5°	2.9	2.9	2.5	1.9	1.3	0.8	0.0
75°	2.9	3.0	2.9	2.2	1.5	0.9	0.0
72.5°	3.0	3.1	3.1	2.6	1.8	1.1	0.0
70°	3.1	3.2	3.2	2.9	2.0	1.2	0.0
67.5°	3.4	3.3	3.3	3.1	2.3	1.4	0.0
65°	3.9	3.8	3.5	3.2	2.6	1.5	0.0
62.5°	4.5	4.8	3.6	3.3	2.8	1.7	0.0
60°	5.4	5.8	3.8	3.5	3.1	1.8	0.0
57.5°	9.9	7.0	4.9	3.6	3.2	2.0	0.0
55°	15.8	8.2	6.1	3.8	3.4	2.1	0.0
52.5°	22.7	10.5	7.4	3.9	3.6	2.3	0.0
50°	30.5	18.0	8.7	4.1	3.7	2.4	0.0
47.5°	41.1	26.0	10.1	4.5	3.9	2.6	0.0
45°	61.9	34.5	11.5	5.6	4.1	2.7	0.0
42.5°	83.3	43.6	13.0	6.7	4.2	2.8	0.0
40°	105.2	53.3	17.5	8.1	4.4	2.9	0.0
37.5°	127.5	63.4	25.1	9.8	4.6	3.1	0.0
35°	150.1	78.8	32.7	11.8	4.8	3.2	0.0
32.5°	174.7	96.6	40.5	13.9	5.0	3.3	0.0
30°	202.7	114.4	48.3	16.2	5.2	3.4	0.0
27.5°	230.2	131.9	58.0	18.6	5.4	3.5	0.0
25°	257.1	149.1	67.9	21.2	5.5	3.6	0.0
22.5°	283.1	166.6	77.8	23.9	5.7	3.7	0.0
20°	308.3	185.5	87.5	26.7	5.9	3.8	0.0
17.5°	333.2	203.7	97.2	29.5	6.1	3.9	0.0
15°	357.2	221.2	106.6	32.3	6.3	4.0	0.0
12.5°	379.6	237.9	115.6	35.2	6.4	4.1	0.0
10°	400.3	253.7	124.3	37.9	6.6	4.1	0.0
7.5°	419.4	268.5	132.5	40.6	6.8	4.2	0.0
5°	436.8	282.1	140.1	43.2	6.9	4.2	0.0
2.5°	452.4	294.4	147.1	45.6	7.1	4.3	0.0
0°	466.1	305.4	153.4	47.8	7.2	4.3	0.0
-2.5°	472.9	312.4	159.2	50.9	8.3	4.5	0.0
-5°	477.9	317.9	164.2	53.8	9.4	4.8	0.0
-7.5°	481.1	321.9	168.3	56.3	10.5	5.0	0.0
-10°	482.5	324.4	171.4	58.5	11.6	5.2	0.0
-12.5°	482.3	325.4	173.4	60.4	12.6	5.4	0.0
-15°	480.4	324.9	174.4	61.9	13.5	5.6	0.0
-17.5°	476.9	323.0	174.3	63.0	14.4	5.8	0.0
-20°	471.4	319.6	173.0	63.6	15.2	5.9	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	463.5	314.7	170.6	63.8	15.9	6.0	0.0
-25°	453.8	307.1	167.0	63.5	16.6	6.1	0.0
-27.5°	442.3	297.7	162.1	62.7	17.1	6.2	0.0
-30°	429.0	287.0	156.0	61.4	17.5	6.2	0.0
-32.5°	413.8	275.0	148.9	59.6	17.9	6.3	0.0
-35°	397.5	261.7	141.0	57.3	18.1	6.2	0.0
-37.5°	379.9	248.4	132.4	54.4	18.3	6.2	0.0
-40°	360.9	236.4	122.9	51.0	18.3	6.2	0.0
-42.5°	340.7	223.4	115.7	47.4	18.2	6.1	0.0
-45°	319.2	209.7	110.8	43.7	18.0	5.9	0.0
-47.5°	296.4	195.1	105.0	39.4	17.6	5.8	0.0
-50°	277.4	179.8	98.4	38.0	17.2	5.6	0.0
-52.5°	258.3	163.8	90.9	37.3	16.6	5.4	0.0
-55°	238.5	151.6	82.6	36.1	16.0	5.2	0.0
-57.5°	218.0	139.3	73.5	34.5	15.2	4.9	0.0
-60°	197.2	125.8	63.9	32.6	14.3	4.7	0.0
-62.5°	178.2	111.3	59.4	30.3	13.5	4.4	0.0
-65°	157.7	95.7	54.2	27.6	12.5	4.0	0.0
-67.5°	136.0	82.8	48.4	24.6	11.5	3.7	0.0
-70°	113.2	72.4	42.1	21.4	10.4	3.3	0.0
-72.5°	95.7	61.3	35.3	18.8	9.2	3.0	0.0
-75°	78.3	49.5	28.1	16.4	8.0	2.6	0.0
-77.5°	59.9	37.2	23.2	13.8	6.8	2.2	0.0
-80°	40.9	28.3	18.8	11.1	5.5	1.7	0.0
-82.5°	30.1	21.4	14.2	8.4	4.1	1.3	0.0
-85°	20.2	14.4	9.5	5.6	2.8	0.9	0.0
-87.5°	10.1	7.2	4.8	2.8	1.4	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)