

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: P645537 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA5E-727-U-LAM-VSR-XX

Issue Date: 2/28/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P645537 (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-SA5E-727-U-LAM-VSR-XX  
Description: GALLEON FLOOD, FIVE LIGHT SQAURE, LAMBERTIAN WITH VISOR  
Light Source: (80) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

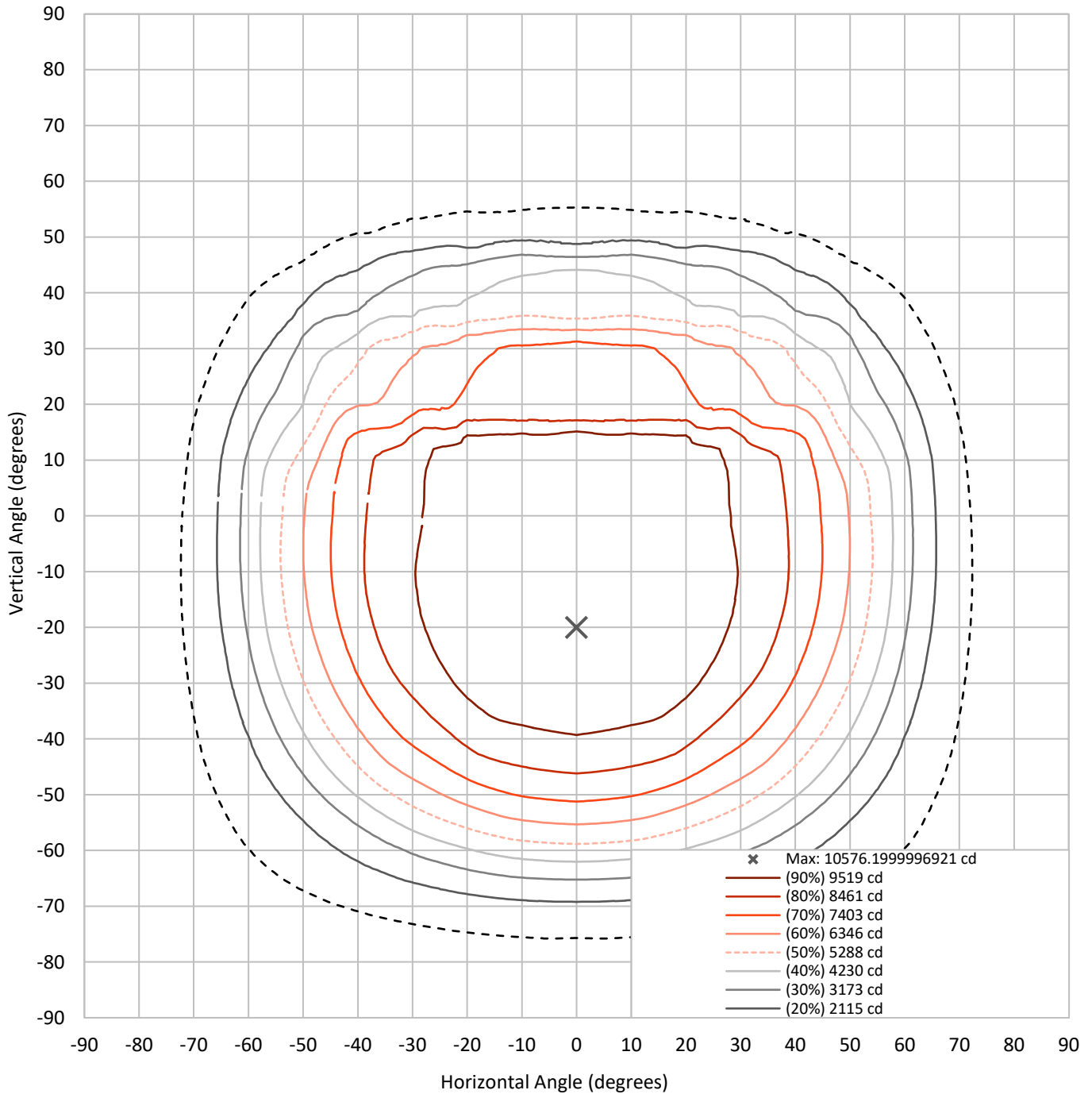
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24799.1 lumens	Max Intensity:	10576.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x -20°V
Efficacy:	79.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	105.6°H x 93.7°V	Field Angle (10%):	144°H x 131.2°V
Beam Lumens:	19386.5 lumens	Field Lumens:	24306.6 lumens
Beam Efficiency:	78.2%	Field Efficiency:	98.0%
Input Watts (W):	313.7		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		





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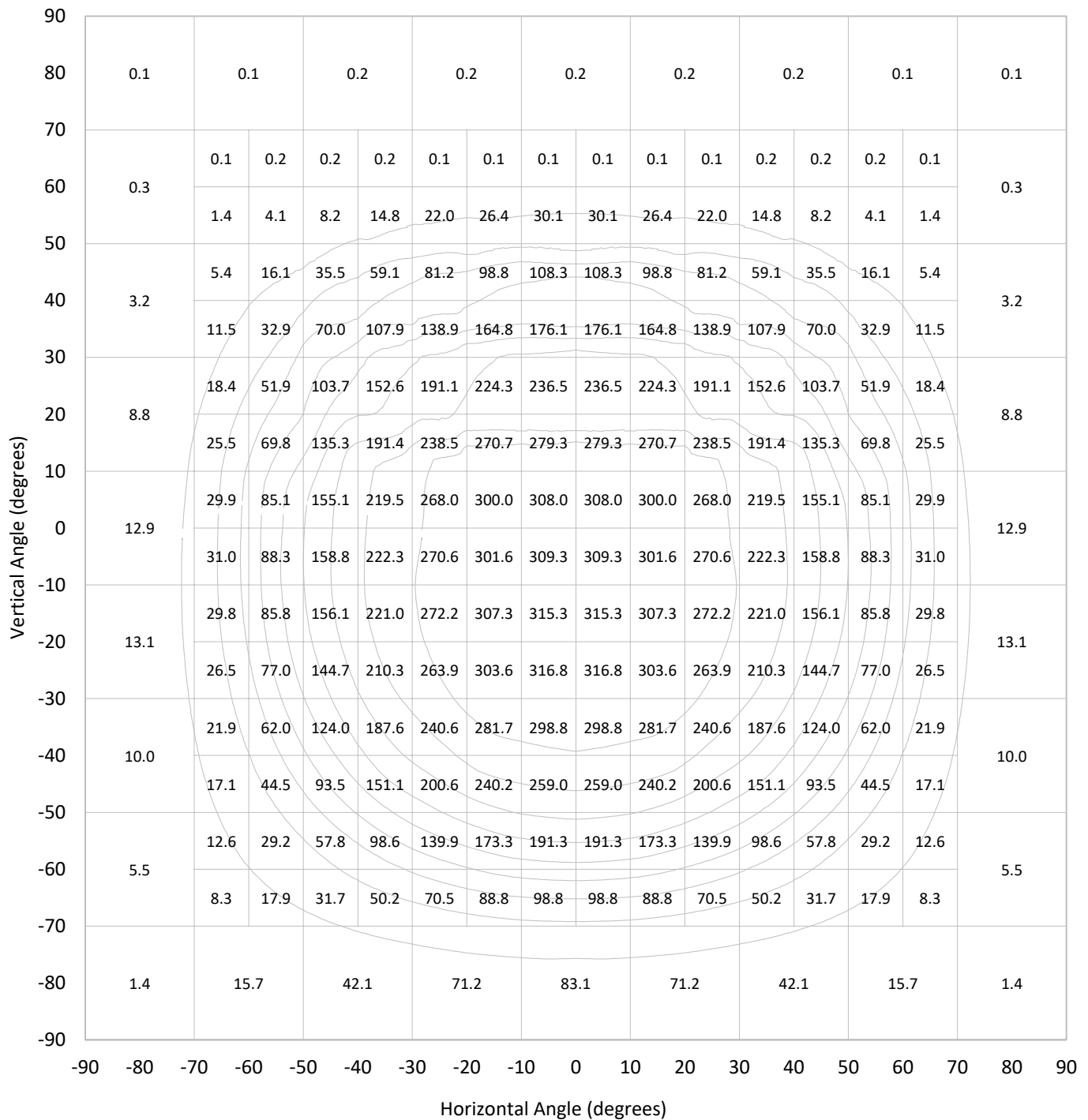
### Iso-Candela Plot





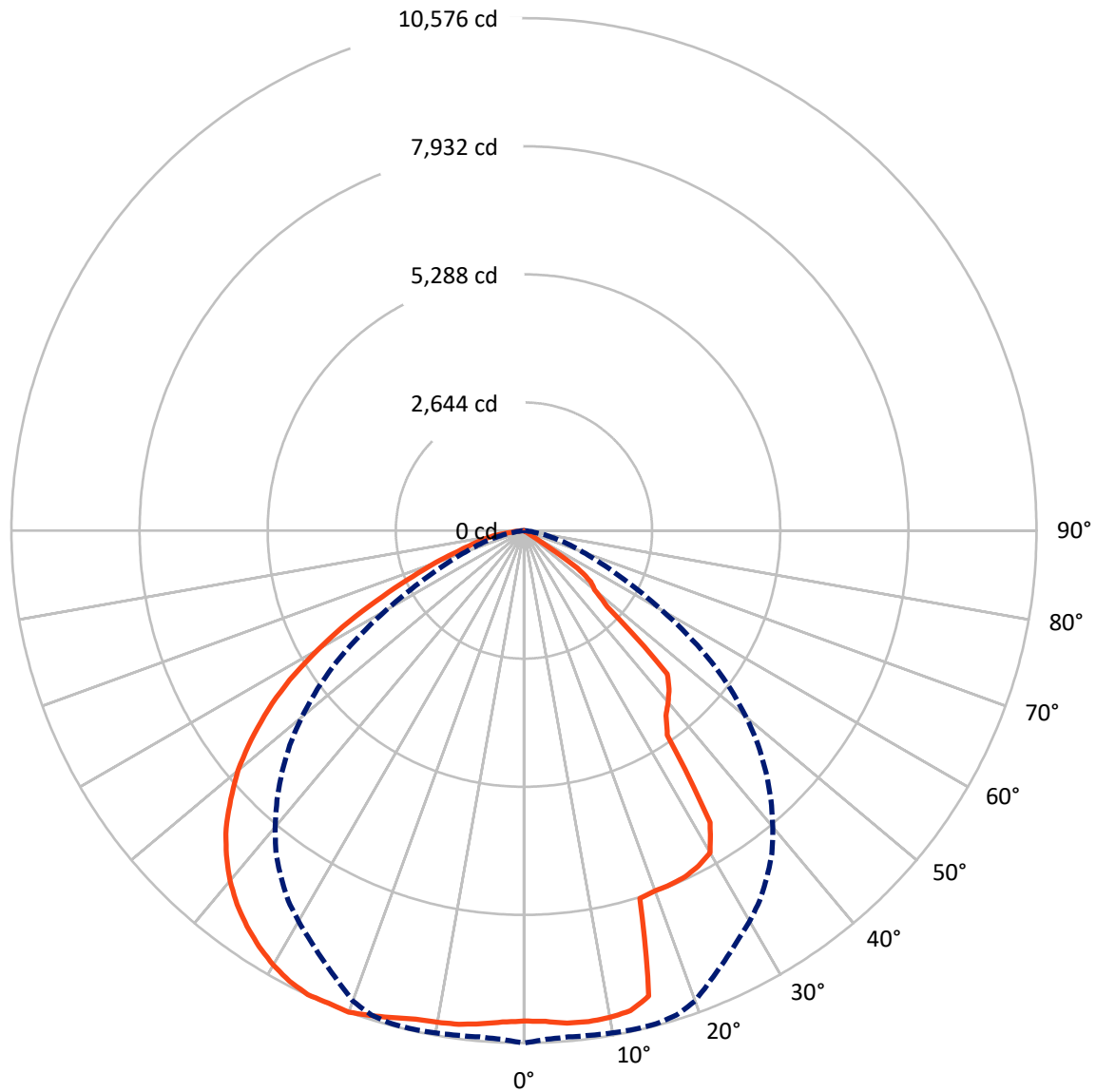
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### Lumen Table



REPORT NUMBER: P645537 (CONVERTED FROM TYPE C PHOTOMETRY)  
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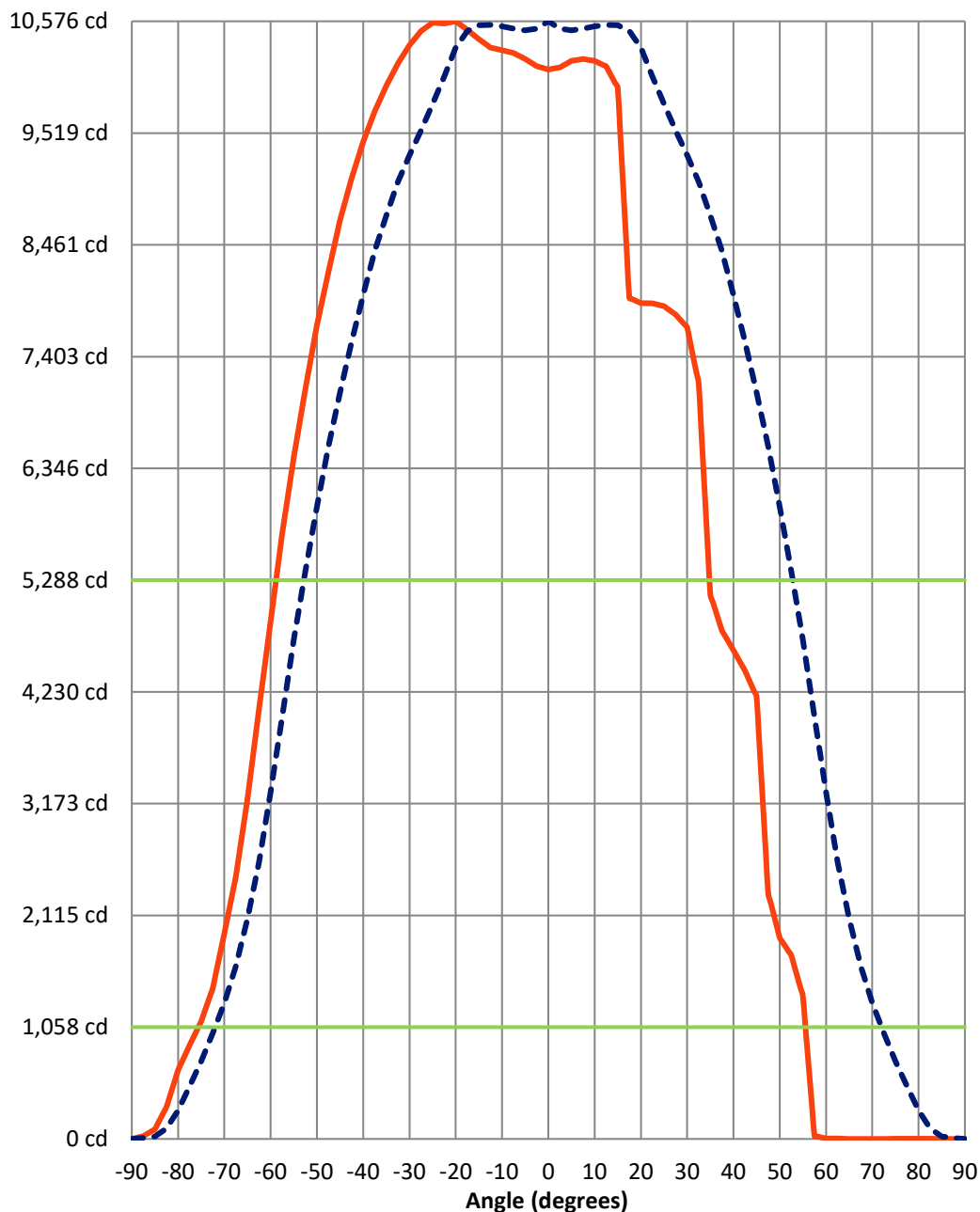
### Luminous Intensity Polar Plot



— 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: 19386.5  
 Efficiency: 78.2%

**Field:**  
 H Angle: 144°  
 V Angle: 131.2°  
 Lumens: 24306.6  
 Efficiency: 98.0%

**Spill:**  
 Lumens: 492.5  
 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	0.4	0.6	0.8	1.0	1.2	1.2	1.2	1.1	1.0
85°	0.0	0.5	0.8	1.2	1.6	1.9	2.3	2.4	2.3	2.2	2.0
82.5°	0.0	0.7	1.2	1.8	2.3	2.9	3.5	3.6	3.4	2.9	2.3
80°	0.0	1.0	1.6	2.3	3.1	3.9	4.5	4.0	3.5	2.9	2.4
77.5°	0.0	1.2	2.0	2.9	3.9	4.5	4.5	4.0	3.5	3.0	2.4
75°	0.0	1.5	2.4	3.5	4.5	4.7	4.6	4.1	3.5	3.0	2.5
72.5°	0.0	1.7	2.8	4.0	4.7	4.8	4.6	4.1	3.6	3.1	2.5
70°	0.0	2.0	3.2	4.5	5.0	5.0	4.7	4.2	3.6	3.2	3.6
67.5°	0.0	2.2	3.6	4.8	5.2	5.2	5.3	4.2	3.8	5.0	5.1
65°	0.0	2.4	4.0	5.0	5.4	6.0	6.1	4.3	6.0	7.0	8.8
62.5°	0.0	2.7	4.4	5.2	5.7	7.4	7.1	6.0	8.3	12.3	19.7
60°	0.0	2.9	4.8	5.5	5.9	9.1	8.3	8.5	10.8	31.3	34.1
57.5°	0.0	3.1	5.1	5.7	7.7	10.8	15.4	12.0	30.7	53.3	61.9
55°	0.0	3.4	5.3	6.0	9.6	12.8	24.6	19.4	56.9	82.2	100.2
52.5°	0.0	3.6	5.6	6.2	11.5	16.4	35.3	49.4	85.5	129.0	145.3
50°	0.0	3.8	5.8	6.5	13.6	28.0	47.6	83.6	122.3	181.0	227.0
47.5°	0.0	4.0	6.1	7.1	15.7	40.5	64.0	119.3	176.2	238.4	310.4
45°	0.0	4.2	6.4	8.8	18.0	53.9	96.6	156.7	236.4	310.7	391.4
42.5°	0.0	4.4	6.7	10.5	20.3	68.1	130.0	204.2	297.8	381.1	484.9
40°	0.0	4.6	7.0	12.7	27.4	83.1	164.1	258.2	361.0	450.2	584.9
37.5°	0.0	4.8	7.2	15.4	39.1	99.0	198.9	312.3	427.3	533.2	689.4
35°	0.0	5.0	7.5	18.4	51.1	123.0	234.2	366.3	494.7	635.2	812.8
32.5°	0.0	5.2	7.8	21.7	63.2	150.8	272.4	420.2	562.9	737.7	962.9
30°	0.0	5.4	8.1	25.3	75.4	178.4	316.2	474.6	631.7	840.5	1107.0
27.5°	0.0	5.6	8.4	29.1	90.5	205.7	359.1	531.2	707.3	943.2	1244.6
25°	0.0	5.7	8.7	33.1	106.0	232.6	401.0	587.2	792.6	1055.3	1375.9
22.5°	0.0	5.9	9.0	37.3	121.4	260.0	441.7	642.4	876.2	1167.3	1508.7
20°	0.0	6.0	9.3	41.6	136.6	289.3	480.9	696.3	957.7	1273.0	1638.3
17.5°	0.0	6.2	9.6	46.0	151.6	317.8	519.8	748.8	1036.5	1372.2	1763.9
15°	0.0	6.3	9.9	50.4	166.3	345.1	557.2	797.5	1112.3	1464.8	1884.5
12.5°	0.0	6.4	10.1	54.8	180.4	371.2	592.1	840.9	1172.7	1550.4	1999.3
10°	0.0	6.5	10.4	59.1	193.9	395.8	624.5	880.9	1217.8	1601.9	2092.8
7.5°	0.0	6.6	10.6	63.3	206.7	418.8	654.3	917.4	1256.1	1641.7	2147.3
5°	0.0	6.7	10.9	67.3	218.6	440.0	681.4	950.3	1288.1	1673.8	2191.7
2.5°	0.0	6.7	11.1	71.1	229.5	459.3	705.7	979.4	1314.1	1698.5	2225.6
0°	0.0	6.8	11.3	74.5	239.3	476.4	727.1	1004.8	1334.4	1716.0	2248.9
-2.5°	0.0	7.2	13.1	79.4	248.4	487.3	737.7	1019.6	1341.7	1738.1	2264.1
-5°	0.0	7.6	14.8	83.8	256.2	495.8	745.5	1030.4	1344.2	1752.5	2268.9
-7.5°	0.0	7.9	16.5	87.8	262.5	502.1	750.5	1037.2	1342.4	1758.4	2263.9
-10°	0.0	8.2	18.1	91.3	267.3	506.0	752.7	1039.8	1336.6	1754.9	2249.5
-12.5°	0.0	8.5	19.7	94.2	270.5	507.6	752.3	1038.0	1327.4	1740.8	2224.8
-15°	0.0	8.8	21.1	96.5	272.0	506.8	749.4	1031.9	1316.9	1713.2	2189.0
-17.5°	0.0	9.1	22.5	98.2	271.8	503.8	743.9	1019.5	1304.1	1678.7	2142.4
-20°	0.0	9.3	23.7	99.2	269.9	498.5	735.4	1001.7	1285.9	1637.6	2084.9

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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	9.5	24.9	99.5	266.1	490.9	723.1	980.4	1262.1	1590.2	2016.6
-25°	0.0	9.6	25.9	99.1	260.4	479.1	707.9	955.6	1232.8	1536.8	1937.6
-27.5°	0.0	9.7	26.7	97.8	252.8	464.4	689.9	927.5	1197.8	1485.1	1867.5
-30°	0.0	9.8	27.4	95.8	243.4	447.6	669.1	896.1	1159.6	1441.5	1792.8
-32.5°	0.0	9.8	27.9	93.0	232.3	428.9	645.5	867.1	1119.1	1391.0	1712.8
-35°	0.0	9.8	28.3	89.4	220.0	408.2	620.0	836.6	1075.3	1333.7	1627.9
-37.5°	0.0	9.7	28.5	84.9	206.4	387.5	592.6	802.8	1028.3	1269.8	1544.1
-40°	0.0	9.6	28.5	79.6	191.7	368.7	563.0	765.8	978.3	1209.4	1461.4
-42.5°	0.0	9.5	28.4	73.9	180.5	348.5	531.4	725.8	930.1	1145.6	1372.3
-45°	0.0	9.3	28.0	68.1	172.8	327.1	497.8	684.4	880.7	1077.6	1280.0
-47.5°	0.0	9.1	27.5	61.5	163.8	304.4	462.3	642.9	827.8	1006.2	1200.1
-50°	0.0	8.8	26.8	59.3	153.5	280.5	432.6	599.4	769.3	940.7	1116.5
-52.5°	0.0	8.5	26.0	58.1	141.8	255.4	402.9	554.0	713.3	873.2	1030.7
-55°	0.0	8.1	24.9	56.3	128.8	236.5	372.1	508.0	657.2	803.9	954.5
-57.5°	0.0	7.7	23.7	53.8	114.6	217.3	340.1	471.5	599.1	737.4	876.7
-60°	0.0	7.3	22.4	50.8	99.7	196.3	307.6	431.1	541.0	670.3	798.9
-62.5°	0.0	6.8	21.0	47.2	92.6	173.6	277.9	387.2	487.2	601.3	722.8
-65°	0.0	6.3	19.5	43.0	84.5	149.4	246.1	341.5	430.2	532.1	644.8
-67.5°	0.0	5.8	17.9	38.4	75.5	129.1	212.2	296.3	370.3	459.9	560.6
-70°	0.0	5.2	16.2	33.3	65.7	113.0	176.6	250.0	316.5	384.3	470.9
-72.5°	0.0	4.6	14.4	29.3	55.1	95.7	149.4	202.7	261.8	321.8	382.5
-75°	0.0	4.0	12.5	25.5	43.9	77.3	122.1	163.3	206.0	258.4	311.3
-77.5°	0.0	3.4	10.5	21.5	36.2	58.0	93.5	126.2	160.3	197.1	239.0
-80°	0.0	2.7	8.5	17.4	29.3	44.2	63.9	88.5	114.8	143.3	173.9
-82.5°	0.0	2.1	6.4	13.1	22.1	33.4	46.9	56.8	68.6	88.7	110.3
-85°	0.0	1.4	4.3	8.8	14.8	22.4	31.4	38.0	44.7	51.7	59.0
-87.5°	0.0	0.7	2.2	4.4	7.4	11.2	15.8	19.0	22.4	25.9	29.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.8
85°	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	2.7	2.9	2.9	2.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	3.5	3.6	3.2	2.7	2.3	2.4	2.6	2.5	2.3	2.3	2.3
67.5°	4.3	3.8	3.3	3.1	3.1	3.4	3.3	2.8	2.3	2.3	2.4
65°	4.4	3.9	5.6	6.4	4.7	4.0	3.5	2.9	3.1	3.3	3.3
62.5°	6.7	8.4	10.8	19.1	14.3	4.1	7.4	8.8	6.4	5.3	5.7
60°	22.0	15.0	44.5	63.7	39.8	14.5	17.7	59.0	51.1	9.4	31.9
57.5°	46.4	63.6	117.2	119.3	82.5	56.9	165.6	191.3	144.8	84.5	129.3
55°	102.1	156.9	194.3	179.9	196.4	297.5	353.5	317.6	267.4	411.2	525.4
52.5°	199.4	255.4	268.0	307.7	440.5	506.1	484.9	518.6	672.6	835.2	870.6
50°	294.4	340.1	375.7	543.3	647.2	653.7	702.0	854.5	1059.8	1159.4	1135.3
47.5°	386.2	433.6	599.5	760.5	807.2	871.1	991.7	1286.1	1503.5	1507.8	1483.3
45°	483.3	609.8	821.6	926.6	1002.4	1126.0	1417.2	1823.3	1844.4	1903.3	2266.2
42.5°	587.1	808.8	993.6	1102.9	1225.1	1455.8	1844.5	2110.9	2202.5	2460.8	2752.6
40°	755.3	1001.0	1162.5	1302.1	1459.3	1795.9	2221.7	2471.2	2545.7	2769.3	2988.6
37.5°	925.9	1161.5	1342.5	1510.9	1728.8	2183.2	2675.8	2881.6	2919.2	2960.1	3446.2
35°	1090.3	1326.1	1542.8	1763.1	2030.4	2684.5	3115.0	3308.5	3302.6	3578.5	4087.5
32.5°	1243.9	1494.4	1750.1	2044.8	2485.9	3156.0	3586.7	3702.5	3878.3	4279.8	4974.6
30°	1397.3	1682.1	1975.7	2326.8	2885.6	3466.4	3958.0	4144.4	4445.6	4903.9	5409.6
27.5°	1555.3	1874.6	2229.6	2641.1	3201.0	3735.0	4154.9	4600.3	4892.9	5303.6	5663.3
25°	1712.7	2078.3	2480.3	2915.8	3426.5	3924.1	4358.4	4872.9	5187.0	5518.1	5853.7
22.5°	1877.7	2284.9	2738.9	3133.5	3616.6	4084.9	4602.0	5160.0	5568.5	5778.9	6004.2
20°	2050.3	2508.4	2992.6	3429.8	3804.2	4234.3	4846.5	5524.5	6051.8	6288.6	6319.6
17.5°	2220.3	2724.9	3245.6	3718.9	4122.7	4505.6	5103.2	5961.2	6616.9	6837.1	6935.0
15°	2386.2	2933.2	3497.2	4000.2	4443.5	4911.6	5549.9	6422.4	7172.1	7415.7	7569.7
12.5°	2546.2	3131.9	3744.7	4272.2	4764.5	5289.7	5955.5	6754.2	7438.5	7909.7	8192.3
10°	2698.7	3319.4	3984.9	4533.2	5081.9	5640.3	6291.2	7001.4	7558.5	8012.9	8414.1
7.5°	2775.7	3442.0	4191.3	4781.7	5391.3	5964.3	6566.0	7175.6	7644.8	8090.6	8478.5
5°	2828.0	3492.3	4255.8	4868.3	5555.7	6180.5	6764.6	7290.1	7701.2	8143.0	8521.9
2.5°	2865.3	3525.0	4299.4	4915.7	5617.4	6246.9	6821.9	7328.4	7747.7	8180.5	8568.6
0°	2887.9	3540.5	4321.7	4944.9	5656.1	6290.6	6855.1	7342.8	7778.6	8198.6	8616.3
-2.5°	2900.7	3587.9	4336.5	5019.8	5693.5	6328.3	6901.6	7377.7	7833.1	8232.7	8651.5
-5°	2899.1	3616.1	4332.6	5070.2	5711.4	6343.0	6924.9	7393.4	7862.6	8258.3	8665.8
-7.5°	2883.4	3622.6	4313.0	5086.0	5712.1	6338.0	6914.7	7401.0	7862.2	8281.7	8667.2
-10°	2855.3	3597.0	4295.0	5045.2	5690.2	6312.3	6883.5	7384.4	7843.8	8277.0	8659.6
-12.5°	2822.2	3544.2	4257.4	4986.4	5645.7	6264.3	6836.1	7342.2	7809.4	8241.6	8642.3
-15°	2772.5	3474.0	4195.5	4911.8	5577.9	6194.4	6774.6	7273.2	7756.4	8179.7	8591.1
-17.5°	2705.8	3387.0	4108.4	4823.2	5486.6	6103.3	6695.6	7182.1	7663.0	8100.3	8497.4
-20°	2621.7	3283.9	3995.4	4722.5	5370.7	5980.9	6554.7	7064.2	7542.0	7986.8	8404.1



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 CATALOG NUMBER: GFLD-SA5E-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°
-22.5°	2520.0	3165.4	3859.3	4586.7	5226.1	5829.4	6396.3	6913.9	7409.2	7839.3	8284.0
-25°	2418.2	3040.1	3708.8	4398.7	5058.1	5658.9	6227.5	6731.7	7237.8	7685.3	8107.7
-27.5°	2320.6	2894.8	3534.1	4191.7	4867.7	5465.6	6029.1	6533.8	7025.1	7514.3	7921.0
-30°	2211.1	2726.7	3342.6	3970.7	4629.7	5238.5	5806.2	6329.8	6797.4	7280.5	7717.1
-32.5°	2090.3	2548.3	3140.3	3744.6	4366.0	4988.2	5550.7	6070.8	6557.2	7014.2	7472.5
-35°	1972.2	2404.3	2926.0	3501.8	4086.6	4697.0	5259.9	5775.0	6279.8	6732.4	7170.4
-37.5°	1865.9	2248.3	2698.2	3248.2	3807.1	4384.5	4956.9	5455.5	5936.0	6433.6	6860.7
-40°	1750.9	2080.8	2501.0	2987.1	3513.8	4062.9	4611.0	5126.8	5578.4	6070.2	6540.0
-42.5°	1630.5	1944.4	2306.3	2710.7	3207.9	3725.5	4254.6	4759.2	5228.2	5692.1	6157.6
-45°	1525.1	1800.0	2108.3	2477.7	2882.5	3369.4	3870.4	4373.3	4823.4	5265.5	5725.2
-47.5°	1412.9	1654.9	1939.9	2235.0	2586.9	2994.0	3465.0	3929.0	4389.6	4810.4	5217.2
-50°	1301.2	1524.2	1758.4	2024.1	2314.5	2644.5	3035.7	3467.0	3887.8	4319.7	4722.7
-52.5°	1205.0	1386.8	1598.4	1820.2	2068.7	2341.7	2655.2	3009.5	3392.2	3758.7	4160.7
-55°	1105.1	1269.1	1439.8	1635.0	1841.9	2072.3	2329.2	2627.0	2919.0	3258.0	3586.2
-57.5°	1014.0	1152.2	1297.9	1459.1	1638.8	1823.2	2047.8	2279.4	2544.4	2807.8	3067.7
-60°	928.1	1041.0	1164.6	1301.1	1445.6	1609.7	1777.3	1976.2	2189.7	2399.9	2620.4
-62.5°	841.5	936.5	1037.3	1150.6	1276.5	1400.6	1543.7	1696.9	1854.0	2032.2	2206.1
-65°	752.5	829.3	914.7	1008.7	1109.2	1214.8	1324.8	1438.3	1571.9	1702.5	1828.9
-67.5°	658.0	723.7	792.8	866.8	951.1	1034.0	1116.8	1212.7	1311.0	1407.7	1507.9
-70°	553.1	615.1	672.8	732.8	795.4	860.4	931.1	1001.4	1070.8	1143.2	1223.6
-72.5°	446.6	503.6	554.3	598.7	650.1	704.1	755.8	805.1	857.4	912.4	966.9
-75°	356.1	393.9	439.1	480.5	521.4	559.4	593.5	635.3	679.0	718.9	751.8
-77.5°	278.0	312.2	343.2	370.9	403.5	441.6	474.8	503.3	531.1	561.3	593.4
-80°	202.2	230.6	258.9	284.5	303.3	324.8	350.3	379.4	404.7	425.2	443.9
-82.5°	130.6	151.1	172.1	193.4	202.1	208.1	213.6	223.7	239.4	254.8	269.6
-85°	65.1	71.1	83.9	97.0	101.5	104.7	106.9	108.1	113.4	118.3	122.5
-87.5°	32.6	35.6	38.5	41.5	39.9	37.8	35.2	32.0	31.3	30.3	29.2
-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: P645537 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA5E-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°	1.9	1.9	2.0	2.0	2.1	1.6	1.1	0.6	0.0	0.0	0.0
85°	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	1.7	1.1
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.0	1.5
65°	3.2	3.1	3.3	3.2	2.8	2.7	2.8	2.8	2.5	2.0	1.4
62.5°	5.7	6.4	5.1	5.0	4.9	4.7	4.6	4.3	4.0	3.8	3.9
60°	35.4	20.9	12.3	14.3	12.8	8.6	10.9	12.7	12.9	11.8	10.4
57.5°	196.3	146.6	108.5	259.1	259.9	124.1	149.4	234.9	193.5	63.5	59.0
55°	546.0	653.0	859.5	816.4	829.6	954.2	1042.0	922.4	904.3	963.6	1113.1
52.5°	980.9	1082.9	1152.4	1217.3	1296.4	1381.4	1468.9	1524.6	1576.7	1632.2	1665.2
50°	1252.6	1396.4	1495.2	1458.8	1663.4	1747.1	1662.1	1738.1	1830.8	1856.2	1868.1
47.5°	1849.6	2060.5	2102.3	2238.1	2360.2	2357.6	2254.0	2260.0	2535.8	2779.2	2898.7
45°	2658.1	2665.2	2797.8	3037.7	3209.2	3155.2	3300.0	3629.0	3738.5	3844.4	3931.2
42.5°	2973.0	3103.6	3315.2	3527.3	3655.1	3766.0	3873.2	3994.1	4136.3	4251.6	4343.8
40°	3278.1	3383.3	3599.9	3770.7	3876.6	3980.2	4105.0	4239.0	4369.1	4470.4	4539.5
37.5°	3747.5	3829.0	3881.8	4040.4	4240.6	4148.2	4385.1	4555.0	4632.6	4735.5	4744.7
35°	4457.7	4403.4	4333.2	4964.5	5002.3	4789.0	5010.6	5273.9	5135.1	5424.2	5579.6
32.5°	5087.3	5079.2	5630.2	5962.1	5771.1	5927.0	6437.7	6415.0	6755.4	6913.4	6868.3
30°	5680.4	5882.9	6201.6	6448.7	6481.8	6727.5	6954.3	7153.0	7358.5	7542.7	7555.4
27.5°	5981.6	6245.7	6462.1	6605.0	6764.6	6971.4	7177.2	7401.0	7575.8	7691.3	7719.5
25°	6163.8	6433.6	6597.3	6751.3	6927.5	7105.9	7336.4	7580.0	7720.4	7791.6	7814.4
22.5°	6324.4	6566.8	6742.8	6867.8	7057.4	7249.4	7464.2	7670.4	7823.0	7854.1	7865.5
20°	6478.9	6711.8	7005.9	7189.8	7180.7	7396.9	7604.0	7768.0	7895.2	7894.5	7897.5
17.5°	6926.1	7009.2	7542.9	7948.1	7747.5	7641.7	8211.0	8221.8	8255.6	8188.4	8042.8
15°	7588.2	7739.6	8395.2	8834.5	8696.2	8688.9	9511.3	9307.4	9482.9	9436.9	9634.4
12.5°	8289.5	8468.8	8958.7	9390.1	9595.6	9646.1	9920.8	10178.2	10231.1	10210.2	10171.4
10°	8767.3	9022.7	9219.5	9481.3	9688.6	9900.0	10059.2	10244.0	10304.5	10269.5	10220.0
7.5°	8829.6	9081.9	9313.0	9542.7	9740.1	9910.5	10075.6	10226.1	10287.6	10267.3	10233.3
5°	8869.2	9097.7	9321.7	9554.8	9743.5	9901.4	10066.0	10218.4	10254.7	10230.3	10197.1
2.5°	8893.5	9105.1	9320.9	9553.1	9724.5	9874.9	10041.4	10204.0	10203.7	10193.0	10173.7
0°	8905.3	9117.6	9368.2	9578.2	9770.1	9912.4	10077.2	10235.3	10224.0	10194.6	10160.7
-2.5°	8930.7	9145.7	9401.5	9575.5	9791.9	9922.2	10092.6	10229.5	10224.2	10209.7	10193.0
-5°	8953.3	9195.2	9434.5	9617.5	9834.4	10004.7	10174.1	10281.1	10286.8	10266.7	10238.5
-7.5°	8967.1	9235.2	9463.5	9647.3	9857.7	10055.8	10227.6	10339.9	10342.4	10315.6	10281.9
-10°	8962.5	9245.6	9480.6	9670.5	9885.9	10081.5	10261.2	10403.6	10399.0	10373.5	10344.7
-12.5°	8945.6	9228.3	9469.6	9660.1	9904.8	10106.2	10308.2	10449.8	10457.4	10438.4	10407.2
-15°	8908.4	9200.3	9435.0	9643.1	9882.8	10118.3	10325.8	10482.1	10510.1	10494.4	10469.8
-17.5°	8834.9	9142.8	9391.8	9616.1	9846.1	10097.0	10333.1	10504.0	10542.2	10535.9	10515.5
-20°	8738.3	9056.1	9308.8	9543.8	9794.2	10052.7	10327.4	10483.6	10538.9	10542.4	10528.5



REPORT NUMBER: P645537 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA5E-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°	8629.8	8941.0	9209.0	9440.0	9711.6	9973.3	10222.0	10404.9	10497.9	10515.1	10516.3
-25°	8499.7	8819.5	9085.9	9331.8	9584.4	9854.7	10106.0	10310.2	10404.4	10449.4	10463.4
-27.5°	8316.0	8646.5	8908.7	9168.6	9425.5	9704.8	9968.9	10190.9	10267.5	10329.4	10354.2
-30°	8100.8	8427.6	8694.9	8932.5	9226.5	9511.1	9783.7	9977.4	10093.0	10163.8	10202.4
-32.5°	7853.3	8183.2	8463.7	8711.9	8991.3	9275.8	9532.4	9736.7	9896.0	9977.7	10019.0
-35°	7584.9	7921.7	8215.4	8476.8	8739.8	9011.1	9276.9	9490.6	9672.1	9742.3	9794.1
-37.5°	7261.1	7632.8	7933.9	8203.5	8453.4	8708.4	8985.2	9229.5	9405.7	9473.8	9528.5
-40°	6929.2	7288.3	7592.0	7879.6	8126.7	8405.1	8671.8	8927.9	9080.8	9160.2	9222.0
-42.5°	6578.7	6903.2	7192.0	7471.4	7746.5	8033.2	8299.6	8565.8	8698.0	8793.7	8869.5
-45°	6174.2	6476.1	6756.7	7018.2	7301.8	7583.6	7850.2	8085.5	8242.8	8367.4	8464.3
-47.5°	5634.9	6002.6	6284.4	6533.1	6814.3	7086.2	7344.5	7565.7	7738.3	7884.0	7996.5
-50°	5087.1	5440.1	5757.8	6037.2	6298.1	6549.6	6795.5	7011.9	7194.5	7352.4	7466.4
-52.5°	4547.7	4878.4	5193.7	5482.1	5732.9	5970.3	6195.3	6413.0	6605.6	6774.4	6884.6
-55°	3938.1	4280.8	4592.7	4861.6	5112.2	5346.8	5568.9	5775.3	5965.0	6136.9	6242.6
-57.5°	3366.4	3666.9	3957.1	4205.4	4441.9	4665.4	4876.0	5073.6	5256.1	5417.8	5519.7
-60°	2840.7	3059.8	3309.6	3538.9	3748.5	3938.7	4135.3	4319.5	4487.1	4629.4	4724.3
-62.5°	2376.2	2557.7	2738.1	2912.4	3082.4	3253.3	3417.8	3570.7	3710.8	3827.3	3910.5
-65°	1962.3	2108.2	2238.6	2362.2	2479.9	2614.7	2739.8	2857.4	2966.4	3055.7	3119.0
-67.5°	1615.8	1718.3	1808.5	1893.3	1986.2	2081.4	2170.7	2248.4	2315.0	2367.9	2409.7
-70°	1303.0	1378.4	1446.4	1514.1	1581.9	1643.8	1702.8	1760.1	1814.4	1858.7	1891.9
-72.5°	1020.5	1072.0	1118.3	1170.3	1219.1	1266.1	1307.0	1340.0	1365.6	1390.5	1412.3
-75°	778.0	816.7	868.9	913.0	949.5	981.7	1011.2	1037.6	1060.7	1081.2	1099.3
-77.5°	625.7	658.6	691.9	724.1	755.2	778.3	799.8	821.3	842.4	860.5	876.6
-80°	463.8	488.3	513.9	539.8	565.5	578.3	588.5	597.9	606.3	617.1	627.2
-82.5°	283.6	297.5	311.7	326.2	340.6	344.2	345.5	345.1	343.3	339.3	333.4
-85°	126.2	127.0	126.5	125.1	122.7	117.7	111.6	104.5	96.6	95.3	93.9
-87.5°	27.8	27.2	26.4	25.6	24.6	24.5	24.4	24.2	24.0	24.8	25.6
-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: P645537 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA5E-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	0.6
85°	0.6	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.7	2.1	2.1
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	2.3	2.3	1.2	0.0	1.2	2.3	2.3	2.3	2.3	2.3	2.3
70°	2.3	2.3	1.2	0.0	1.2	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	0.8	0.2	0.0	0.0	0.0	0.2	0.8	1.5	2.0	2.3	2.3
65°	0.8	0.1	0.0	0.0	0.0	0.1	0.8	1.4	2.0	2.5	2.8
62.5°	4.1	4.3	4.4	4.5	4.4	4.3	4.1	3.9	3.8	4.0	4.3
60°	8.2	5.3	4.5	4.5	4.5	5.3	8.2	10.4	11.8	12.9	12.7
57.5°	49.9	37.2	31.7	29.4	31.7	37.2	49.9	59.0	63.5	193.5	234.9
55°	1220.2	1282.4	1328.8	1350.2	1328.8	1282.4	1220.2	1113.1	963.6	904.3	922.4
52.5°	1694.3	1721.3	1736.9	1736.4	1736.9	1721.3	1694.3	1665.2	1632.2	1576.7	1524.6
50°	1888.5	1901.6	1906.3	1903.4	1906.3	1901.6	1888.5	1868.1	1856.2	1830.8	1738.1
47.5°	2789.5	2548.1	2370.6	2327.9	2370.6	2548.1	2789.5	2898.7	2779.2	2535.8	2260.0
45°	3972.9	4064.4	4155.6	4184.0	4155.6	4064.4	3972.9	3931.2	3844.4	3738.5	3629.0
42.5°	4382.7	4412.5	4429.4	4430.1	4429.4	4412.5	4382.7	4343.8	4251.6	4136.3	3994.1
40°	4578.2	4606.4	4622.8	4624.3	4622.8	4606.4	4578.2	4539.5	4470.4	4369.1	4239.0
37.5°	4755.9	4779.9	4795.6	4811.7	4795.6	4779.9	4755.9	4744.7	4735.5	4632.6	4555.0
35°	5558.6	5376.8	5115.3	5154.9	5115.3	5376.8	5558.6	5579.6	5424.2	5135.1	5273.9
32.5°	6938.7	7015.2	7062.9	7144.1	7062.9	7015.2	6938.7	6868.3	6913.4	6755.4	6415.0
30°	7575.5	7600.8	7639.0	7679.3	7639.0	7600.8	7575.5	7555.4	7542.7	7358.5	7153.0
27.5°	7734.4	7760.6	7783.8	7801.2	7783.8	7760.6	7734.4	7719.5	7691.3	7575.8	7401.0
25°	7817.6	7833.8	7858.5	7880.2	7858.5	7833.8	7817.6	7814.4	7791.6	7720.4	7580.0
22.5°	7858.9	7860.6	7879.9	7907.3	7879.9	7860.6	7858.9	7865.5	7854.1	7823.0	7670.4
20°	7887.2	7871.8	7891.8	7909.6	7891.8	7871.8	7887.2	7897.5	7894.5	7895.2	7768.0
17.5°	8248.3	8042.2	7957.6	7959.2	7957.6	8042.2	8248.3	8042.8	8188.4	8255.6	8221.8
15°	9412.7	9490.0	9786.2	9946.2	9786.2	9490.0	9412.7	9634.4	9436.9	9482.9	9307.4
12.5°	10164.2	10136.7	10101.5	10149.5	10101.5	10136.7	10164.2	10171.4	10210.2	10231.1	10178.2
10°	10199.0	10195.8	10133.2	10201.4	10133.2	10195.8	10199.0	10220.0	10269.5	10304.5	10244.0
7.5°	10177.6	10179.5	10152.8	10219.4	10152.8	10179.5	10177.6	10233.3	10267.3	10287.6	10226.1
5°	10191.8	10145.9	10163.3	10201.4	10163.3	10145.9	10191.8	10197.1	10230.3	10254.7	10218.4
2.5°	10152.3	10147.6	10113.8	10140.4	10113.8	10147.6	10152.3	10173.7	10193.0	10203.7	10204.0
0°	10122.4	10097.5	10097.5	10120.1	10097.5	10097.5	10122.4	10160.7	10194.6	10224.0	10235.3
-2.5°	10175.8	10170.6	10167.2	10151.7	10167.2	10170.6	10175.8	10193.0	10209.7	10224.2	10229.5
-5°	10219.7	10206.2	10169.3	10219.4	10169.3	10206.2	10219.7	10238.5	10266.7	10286.8	10281.1
-7.5°	10266.9	10232.6	10197.5	10275.9	10197.5	10232.6	10266.9	10281.9	10315.6	10342.4	10339.9
-10°	10310.0	10260.5	10226.2	10303.0	10226.2	10260.5	10310.0	10344.7	10373.5	10399.0	10403.6
-12.5°	10367.0	10309.1	10286.2	10327.8	10286.2	10309.1	10367.0	10407.2	10438.4	10457.4	10449.8
-15°	10427.8	10387.7	10382.4	10406.9	10382.4	10387.7	10427.8	10469.8	10494.4	10510.1	10482.1
-17.5°	10481.2	10453.0	10467.0	10494.9	10467.0	10453.0	10481.2	10515.5	10535.9	10542.2	10504.0
-20°	10506.7	10490.9	10506.6	10576.2	10506.6	10490.9	10506.7	10528.5	10542.4	10538.9	10483.6

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Cooper Lighting Solutions Photometric Lab  
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REPORT NUMBER: P645537 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLD-SA5E-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°	10504.5	10505.5	10533.2	10555.9	10533.2	10505.5	10504.5	10516.3	10515.1	10497.9	10404.9
-25°	10464.4	10485.6	10517.3	10562.7	10517.3	10485.6	10464.4	10463.4	10449.4	10404.4	10310.2
-27.5°	10367.8	10402.8	10436.0	10483.6	10436.0	10402.8	10367.8	10354.2	10329.4	10267.5	10190.9
-30°	10228.0	10269.7	10299.2	10350.4	10299.2	10269.7	10228.0	10202.4	10163.8	10093.0	9977.4
-32.5°	10057.9	10105.1	10140.0	10176.5	10140.0	10105.1	10057.9	10019.0	9977.7	9896.0	9736.7
-35°	9845.3	9896.1	9933.3	9966.6	9933.3	9896.1	9845.3	9794.1	9742.3	9672.1	9490.6
-37.5°	9589.8	9644.6	9686.9	9725.0	9686.9	9644.6	9589.8	9528.5	9473.8	9405.7	9229.5
-40°	9292.2	9348.4	9393.5	9435.9	9393.5	9348.4	9292.2	9222.0	9160.2	9080.8	8927.9
-42.5°	8944.2	9001.0	9047.6	9090.5	9047.6	9001.0	8944.2	8869.5	8793.7	8698.0	8565.8
-45°	8542.4	8600.8	8650.1	8695.3	8650.1	8600.8	8542.4	8464.3	8367.4	8242.8	8085.5
-47.5°	8079.5	8142.1	8184.2	8205.4	8184.2	8142.1	8079.5	7996.5	7884.0	7738.3	7565.7
-50°	7549.0	7611.5	7662.2	7699.6	7662.2	7611.5	7549.0	7466.4	7352.4	7194.5	7011.9
-52.5°	6965.1	7024.5	7068.1	7094.5	7068.1	7024.5	6965.1	6884.6	6774.4	6605.6	6413.0
-55°	6325.7	6388.0	6429.3	6448.7	6429.3	6388.0	6325.7	6242.6	6136.9	5965.0	5775.3
-57.5°	5600.5	5659.7	5703.6	5728.4	5703.6	5659.7	5600.5	5519.7	5417.8	5256.1	5073.6
-60°	4798.3	4851.2	4884.5	4897.5	4884.5	4851.2	4798.3	4724.3	4629.4	4487.1	4319.5
-62.5°	3977.6	4027.7	4059.0	4071.1	4059.0	4027.7	3977.6	3910.5	3827.3	3710.8	3570.7
-65°	3166.3	3197.7	3215.1	3217.6	3215.1	3197.7	3166.3	3119.0	3055.7	2966.4	2857.4
-67.5°	2442.7	2466.6	2481.1	2486.0	2481.1	2466.6	2442.7	2409.7	2367.9	2315.0	2248.4
-70°	1916.7	1933.2	1942.5	1944.1	1942.5	1933.2	1916.7	1891.9	1858.7	1814.4	1760.1
-72.5°	1429.0	1440.8	1436.7	1427.0	1436.7	1440.8	1429.0	1412.3	1390.5	1365.6	1340.0
-75°	1114.8	1127.8	1122.4	1113.2	1122.4	1127.8	1114.8	1099.3	1081.2	1060.7	1037.6
-77.5°	890.6	902.4	896.6	887.4	896.6	902.4	890.6	876.6	860.5	842.4	821.3
-80°	635.9	642.9	647.8	650.3	647.8	642.9	635.9	627.2	617.1	606.3	597.9
-82.5°	325.6	316.0	309.9	302.6	309.9	316.0	325.6	333.4	339.3	343.3	345.1
-85°	92.0	89.8	91.3	92.6	91.3	89.8	92.0	93.9	95.3	96.6	104.5
-87.5°	26.3	27.0	27.1	27.1	27.1	27.0	26.3	25.6	24.8	24.0	24.2
-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: P645537 (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°	1.1	1.6	2.1	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.6
85°	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
67.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.8
65°	2.8	2.7	2.8	3.2	3.3	3.1	3.2	3.3	3.3	3.1	2.9
62.5°	4.6	4.7	4.9	5.0	5.1	6.4	5.7	5.7	5.3	6.4	8.8
60°	10.9	8.6	12.8	14.3	12.3	20.9	35.4	31.9	9.4	51.1	59.0
57.5°	149.4	124.1	259.9	259.1	108.5	146.6	196.3	129.3	84.5	144.8	191.3
55°	1042.0	954.2	829.6	816.4	859.5	653.0	546.0	525.4	411.2	267.4	317.6
52.5°	1468.9	1381.4	1296.4	1217.3	1152.4	1082.9	980.9	870.6	835.2	672.6	518.6
50°	1662.1	1747.1	1663.4	1458.8	1495.2	1396.4	1252.6	1135.3	1159.4	1059.8	854.5
47.5°	2254.0	2357.6	2360.2	2238.1	2102.3	2060.5	1849.6	1483.3	1507.8	1503.5	1286.1
45°	3300.0	3155.2	3209.2	3037.7	2797.8	2665.2	2658.1	2266.2	1903.3	1844.4	1823.3
42.5°	3873.2	3766.0	3655.1	3527.3	3315.2	3103.6	2973.0	2752.6	2460.8	2202.5	2110.9
40°	4105.0	3980.2	3876.6	3770.7	3599.9	3383.3	3278.1	2988.6	2769.3	2545.7	2471.2
37.5°	4385.1	4148.2	4240.6	4040.4	3881.8	3829.0	3747.5	3446.2	2960.1	2919.2	2881.6
35°	5010.6	4789.0	5002.3	4964.5	4333.2	4403.4	4457.7	4087.5	3578.5	3302.6	3308.5
32.5°	6437.7	5927.0	5771.1	5962.1	5630.2	5079.2	5087.3	4974.6	4279.8	3878.3	3702.5
30°	6954.3	6727.5	6481.8	6448.7	6201.6	5882.9	5680.4	5409.6	4903.9	4445.6	4144.4
27.5°	7177.2	6971.4	6764.6	6605.0	6462.1	6245.7	5981.6	5663.3	5303.6	4892.9	4600.3
25°	7336.4	7105.9	6927.5	6751.3	6597.3	6433.6	6163.8	5853.7	5518.1	5187.0	4872.9
22.5°	7464.2	7249.4	7057.4	6867.8	6742.8	6566.8	6324.4	6004.2	5778.9	5568.5	5160.0
20°	7604.0	7396.9	7180.7	7189.8	7005.9	6711.8	6478.9	6319.6	6288.6	6051.8	5524.5
17.5°	8211.0	7641.7	7747.5	7948.1	7542.9	7009.2	6926.1	6935.0	6837.1	6616.9	5961.2
15°	9511.3	8688.9	8696.2	8834.5	8395.2	7739.6	7588.2	7569.7	7415.7	7172.1	6422.4
12.5°	9920.8	9646.1	9595.6	9390.1	8958.7	8468.8	8289.5	8192.3	7909.7	7438.5	6754.2
10°	10059.2	9900.0	9688.6	9481.3	9219.5	9022.7	8767.3	8414.1	8012.9	7558.5	7001.4
7.5°	10075.6	9910.5	9740.1	9542.7	9313.0	9081.9	8829.6	8478.5	8090.6	7644.8	7175.6
5°	10066.0	9901.4	9743.5	9554.8	9321.7	9097.7	8869.2	8521.9	8143.0	7701.2	7290.1
2.5°	10041.4	9874.9	9724.5	9553.1	9320.9	9105.1	8893.5	8568.6	8180.5	7747.7	7328.4
0°	10077.2	9912.4	9770.1	9578.2	9368.2	9117.6	8905.3	8616.3	8198.6	7778.6	7342.8
-2.5°	10092.6	9922.2	9791.9	9575.5	9401.5	9145.7	8930.7	8651.5	8232.7	7833.1	7377.7
-5°	10174.1	10004.7	9834.4	9617.5	9434.5	9195.2	8953.3	8665.8	8258.3	7862.6	7393.4
-7.5°	10227.6	10055.8	9857.7	9647.3	9463.5	9235.2	8967.1	8667.2	8281.7	7862.2	7401.0
-10°	10261.2	10081.5	9885.9	9670.5	9480.6	9245.6	8962.5	8659.6	8277.0	7843.8	7384.4
-12.5°	10308.2	10106.2	9904.8	9660.1	9469.6	9228.3	8945.6	8642.3	8241.6	7809.4	7342.2
-15°	10325.8	10118.3	9882.8	9643.1	9435.0	9200.3	8908.4	8591.1	8179.7	7756.4	7273.2
-17.5°	10333.1	10097.0	9846.1	9616.1	9391.8	9142.8	8834.9	8497.4	8100.3	7663.0	7182.1
-20°	10327.4	10052.7	9794.2	9543.8	9308.8	9056.1	8738.3	8404.1	7986.8	7542.0	7064.2

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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°	10222.0	9973.3	9711.6	9440.0	9209.0	8941.0	8629.8	8284.0	7839.3	7409.2	6913.9
-25°	10106.0	9854.7	9584.4	9331.8	9085.9	8819.5	8499.7	8107.7	7685.3	7237.8	6731.7
-27.5°	9968.9	9704.8	9425.5	9168.6	8908.7	8646.5	8316.0	7921.0	7514.3	7025.1	6533.8
-30°	9783.7	9511.1	9226.5	8932.5	8694.9	8427.6	8100.8	7717.1	7280.5	6797.4	6329.8
-32.5°	9532.4	9275.8	8991.3	8711.9	8463.7	8183.2	7853.3	7472.5	7014.2	6557.2	6070.8
-35°	9276.9	9011.1	8739.8	8476.8	8215.4	7921.7	7584.9	7170.4	6732.4	6279.8	5775.0
-37.5°	8985.2	8708.4	8453.4	8203.5	7933.9	7632.8	7261.1	6860.7	6433.6	5936.0	5455.5
-40°	8671.8	8405.1	8126.7	7879.6	7592.0	7288.3	6929.2	6540.0	6070.2	5578.4	5126.8
-42.5°	8299.6	8033.2	7746.5	7471.4	7192.0	6903.2	6578.7	6157.6	5692.1	5228.2	4759.2
-45°	7850.2	7583.6	7301.8	7018.2	6756.7	6476.1	6174.2	5725.2	5265.5	4823.4	4373.3
-47.5°	7344.5	7086.2	6814.3	6533.1	6284.4	6002.6	5634.9	5217.2	4810.4	4389.6	3929.0
-50°	6795.5	6549.6	6298.1	6037.2	5757.8	5440.1	5087.1	4722.7	4319.7	3887.8	3467.0
-52.5°	6195.3	5970.3	5732.9	5482.1	5193.7	4878.4	4547.7	4160.7	3758.7	3392.2	3009.5
-55°	5568.9	5346.8	5112.2	4861.6	4592.7	4280.8	3938.1	3586.2	3258.0	2919.0	2627.0
-57.5°	4876.0	4665.4	4441.9	4205.4	3957.1	3666.9	3366.4	3067.7	2807.8	2544.4	2279.4
-60°	4135.3	3938.7	3748.5	3538.9	3309.6	3059.8	2840.7	2620.4	2399.9	2189.7	1976.2
-62.5°	3417.8	3253.3	3082.4	2912.4	2738.1	2557.7	2376.2	2206.1	2032.2	1854.0	1696.9
-65°	2739.8	2614.7	2479.9	2362.2	2238.6	2108.2	1962.3	1828.9	1702.5	1571.9	1438.3
-67.5°	2170.7	2081.4	1986.2	1893.3	1808.5	1718.3	1615.8	1507.9	1407.7	1311.0	1212.7
-70°	1702.8	1643.8	1581.9	1514.1	1446.4	1378.4	1303.0	1223.6	1143.2	1070.8	1001.4
-72.5°	1307.0	1266.1	1219.1	1170.3	1118.3	1072.0	1020.5	966.9	912.4	857.4	805.1
-75°	1011.2	981.7	949.5	913.0	868.9	816.7	778.0	751.8	718.9	679.0	635.3
-77.5°	799.8	778.3	755.2	724.1	691.9	658.6	625.7	593.4	561.3	531.1	503.3
-80°	588.5	578.3	565.5	539.8	513.9	488.3	463.8	443.9	425.2	404.7	379.4
-82.5°	345.5	344.2	340.6	326.2	311.7	297.5	283.6	269.6	254.8	239.4	223.7
-85°	111.6	117.7	122.7	125.1	126.5	127.0	126.2	122.5	118.3	113.4	108.1
-87.5°	24.4	24.5	24.6	25.6	26.4	27.2	27.8	29.2	30.3	31.3	32.0
-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):**

	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°	1.6	1.5	1.4	1.3	1.2	1.1	1.1	1.0	1.1	1.2	1.2
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.1	2.0	2.2	2.3	2.4
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	3.4	3.6
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.9	3.5	4.0
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	3.0	3.5	4.0
75°	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.5	3.0	3.5	4.1
72.5°	2.3	2.3	2.3	2.6	2.9	2.9	2.7	2.5	3.1	3.6	4.1
70°	2.6	2.4	2.3	2.7	3.2	3.6	3.5	3.6	3.2	3.6	4.2
67.5°	3.3	3.4	3.1	3.1	3.3	3.8	4.3	5.1	5.0	3.8	4.2
65°	3.5	4.0	4.7	6.4	5.6	3.9	4.4	8.8	7.0	6.0	4.3
62.5°	7.4	4.1	14.3	19.1	10.8	8.4	6.7	19.7	12.3	8.3	6.0
60°	17.7	14.5	39.8	63.7	44.5	15.0	22.0	34.1	31.3	10.8	8.5
57.5°	165.6	56.9	82.5	119.3	117.2	63.6	46.4	61.9	53.3	30.7	12.0
55°	353.5	297.5	196.4	179.9	194.3	156.9	102.1	100.2	82.2	56.9	19.4
52.5°	484.9	506.1	440.5	307.7	268.0	255.4	199.4	145.3	129.0	85.5	49.4
50°	702.0	653.7	647.2	543.3	375.7	340.1	294.4	227.0	181.0	122.3	83.6
47.5°	991.7	871.1	807.2	760.5	599.5	433.6	386.2	310.4	238.4	176.2	119.3
45°	1417.2	1126.0	1002.4	926.6	821.6	609.8	483.3	391.4	310.7	236.4	156.7
42.5°	1844.5	1455.8	1225.1	1102.9	993.6	808.8	587.1	484.9	381.1	297.8	204.2
40°	2221.7	1795.9	1459.3	1302.1	1162.5	1001.0	755.3	584.9	450.2	361.0	258.2
37.5°	2675.8	2183.2	1728.8	1510.9	1342.5	1161.5	925.9	689.4	533.2	427.3	312.3
35°	3115.0	2684.5	2030.4	1763.1	1542.8	1326.1	1090.3	812.8	635.2	494.7	366.3
32.5°	3586.7	3156.0	2485.9	2044.8	1750.1	1494.4	1243.9	962.9	737.7	562.9	420.2
30°	3958.0	3466.4	2885.6	2326.8	1975.7	1682.1	1397.3	1107.0	840.5	631.7	474.6
27.5°	4154.9	3735.0	3201.0	2641.1	2229.6	1874.6	1555.3	1244.6	943.2	707.3	531.2
25°	4358.4	3924.1	3426.5	2915.8	2480.3	2078.3	1712.7	1375.9	1055.3	792.6	587.2
22.5°	4602.0	4084.9	3616.6	3133.5	2738.9	2284.9	1877.7	1508.7	1167.3	876.2	642.4
20°	4846.5	4234.3	3804.2	3429.8	2992.6	2508.4	2050.3	1638.3	1273.0	957.7	696.3
17.5°	5103.2	4505.6	4122.7	3718.9	3245.6	2724.9	2220.3	1763.9	1372.2	1036.5	748.8
15°	5549.9	4911.6	4443.5	4000.2	3497.2	2933.2	2386.2	1884.5	1464.8	1112.3	797.5
12.5°	5955.5	5289.7	4764.5	4272.2	3744.7	3131.9	2546.2	1999.3	1550.4	1172.7	840.9
10°	6291.2	5640.3	5081.9	4533.2	3984.9	3319.4	2698.7	2092.8	1601.9	1217.8	880.9
7.5°	6566.0	5964.3	5391.3	4781.7	4191.3	3442.0	2775.7	2147.3	1641.7	1256.1	917.4
5°	6764.6	6180.5	5555.7	4868.3	4255.8	3492.3	2828.0	2191.7	1673.8	1288.1	950.3
2.5°	6821.9	6246.9	5617.4	4915.7	4299.4	3525.0	2865.3	2225.6	1698.5	1314.1	979.4
0°	6855.1	6290.6	5656.1	4944.9	4321.7	3540.5	2887.9	2248.9	1716.0	1334.4	1004.8
-2.5°	6901.6	6328.3	5693.5	5019.8	4336.5	3587.9	2900.7	2264.1	1738.1	1341.7	1019.6
-5°	6924.9	6343.0	5711.4	5070.2	4332.6	3616.1	2899.1	2268.9	1752.5	1344.2	1030.4
-7.5°	6914.7	6338.0	5712.1	5086.0	4313.0	3622.6	2883.4	2263.9	1758.4	1342.4	1037.2
-10°	6883.5	6312.3	5690.2	5045.2	4295.0	3597.0	2855.3	2249.5	1754.9	1336.6	1039.8
-12.5°	6836.1	6264.3	5645.7	4986.4	4257.4	3544.2	2822.2	2224.8	1740.8	1327.4	1038.0
-15°	6774.6	6194.4	5577.9	4911.8	4195.5	3474.0	2772.5	2189.0	1713.2	1316.9	1031.9
-17.5°	6695.6	6103.3	5486.6	4823.2	4108.4	3387.0	2705.8	2142.4	1678.7	1304.1	1019.5
-20°	6554.7	5980.9	5370.7	4722.5	3995.4	3283.9	2621.7	2084.9	1637.6	1285.9	1001.7



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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°	6396.3	5829.4	5226.1	4586.7	3859.3	3165.4	2520.0	2016.6	1590.2	1262.1	980.4
-25°	6227.5	5658.9	5058.1	4398.7	3708.8	3040.1	2418.2	1937.6	1536.8	1232.8	955.6
-27.5°	6029.1	5465.6	4867.7	4191.7	3534.1	2894.8	2320.6	1867.5	1485.1	1197.8	927.5
-30°	5806.2	5238.5	4629.7	3970.7	3342.6	2726.7	2211.1	1792.8	1441.5	1159.6	896.1
-32.5°	5550.7	4988.2	4366.0	3744.6	3140.3	2548.3	2090.3	1712.8	1391.0	1119.1	867.1
-35°	5259.9	4697.0	4086.6	3501.8	2926.0	2404.3	1972.2	1627.9	1333.7	1075.3	836.6
-37.5°	4956.9	4384.5	3807.1	3248.2	2698.2	2248.3	1865.9	1544.1	1269.8	1028.3	802.8
-40°	4611.0	4062.9	3513.8	2987.1	2501.0	2080.8	1750.9	1461.4	1209.4	978.3	765.8
-42.5°	4254.6	3725.5	3207.9	2710.7	2306.3	1944.4	1630.5	1372.3	1145.6	930.1	725.8
-45°	3870.4	3369.4	2882.5	2477.7	2108.3	1800.0	1525.1	1280.0	1077.6	880.7	684.4
-47.5°	3465.0	2994.0	2586.9	2235.0	1939.9	1654.9	1412.9	1200.1	1006.2	827.8	642.9
-50°	3035.7	2644.5	2314.5	2024.1	1758.4	1524.2	1301.2	1116.5	940.7	769.3	599.4
-52.5°	2655.2	2341.7	2068.7	1820.2	1598.4	1386.8	1205.0	1030.7	873.2	713.3	554.0
-55°	2329.2	2072.3	1841.9	1635.0	1439.8	1269.1	1105.1	954.5	803.9	657.2	508.0
-57.5°	2047.8	1823.2	1638.8	1459.1	1297.9	1152.2	1014.0	876.7	737.4	599.1	471.5
-60°	1777.3	1609.7	1445.6	1301.1	1164.6	1041.0	928.1	798.9	670.3	541.0	431.1
-62.5°	1543.7	1400.6	1276.5	1150.6	1037.3	936.5	841.5	722.8	601.3	487.2	387.2
-65°	1324.8	1214.8	1109.2	1008.7	914.7	829.3	752.5	644.8	532.1	430.2	341.5
-67.5°	1116.8	1034.0	951.1	866.8	792.8	723.7	658.0	560.6	459.9	370.3	296.3
-70°	931.1	860.4	795.4	732.8	672.8	615.1	553.1	470.9	384.3	316.5	250.0
-72.5°	755.8	704.1	650.1	598.7	554.3	503.6	446.6	382.5	321.8	261.8	202.7
-75°	593.5	559.4	521.4	480.5	439.1	393.9	356.1	311.3	258.4	206.0	163.3
-77.5°	474.8	441.6	403.5	370.9	343.2	312.2	278.0	239.0	197.1	160.3	126.2
-80°	350.3	324.8	303.3	284.5	258.9	230.6	202.2	173.9	143.3	114.8	88.5
-82.5°	213.6	208.1	202.1	193.4	172.1	151.1	130.6	110.3	88.7	68.6	56.8
-85°	106.9	104.7	101.5	97.0	83.9	71.1	65.1	59.0	51.7	44.7	38.0
-87.5°	35.2	37.8	39.9	41.5	38.5	35.6	32.6	29.6	25.9	22.4	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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**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°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
85°	2.3	1.9	1.6	1.2	0.8	0.5	0.0
82.5°	3.5	2.9	2.3	1.8	1.2	0.7	0.0
80°	4.5	3.9	3.1	2.3	1.6	1.0	0.0
77.5°	4.5	4.5	3.9	2.9	2.0	1.2	0.0
75°	4.6	4.7	4.5	3.5	2.4	1.5	0.0
72.5°	4.6	4.8	4.7	4.0	2.8	1.7	0.0
70°	4.7	5.0	5.0	4.5	3.2	2.0	0.0
67.5°	5.3	5.2	5.2	4.8	3.6	2.2	0.0
65°	6.1	6.0	5.4	5.0	4.0	2.4	0.0
62.5°	7.1	7.4	5.7	5.2	4.4	2.7	0.0
60°	8.3	9.1	5.9	5.5	4.8	2.9	0.0
57.5°	15.4	10.8	7.7	5.7	5.1	3.1	0.0
55°	24.6	12.8	9.6	6.0	5.3	3.4	0.0
52.5°	35.3	16.4	11.5	6.2	5.6	3.6	0.0
50°	47.6	28.0	13.6	6.5	5.8	3.8	0.0
47.5°	64.0	40.5	15.7	7.1	6.1	4.0	0.0
45°	96.6	53.9	18.0	8.8	6.4	4.2	0.0
42.5°	130.0	68.1	20.3	10.5	6.7	4.4	0.0
40°	164.1	83.1	27.4	12.7	7.0	4.6	0.0
37.5°	198.9	99.0	39.1	15.4	7.2	4.8	0.0
35°	234.2	123.0	51.1	18.4	7.5	5.0	0.0
32.5°	272.4	150.8	63.2	21.7	7.8	5.2	0.0
30°	316.2	178.4	75.4	25.3	8.1	5.4	0.0
27.5°	359.1	205.7	90.5	29.1	8.4	5.6	0.0
25°	401.0	232.6	106.0	33.1	8.7	5.7	0.0
22.5°	441.7	260.0	121.4	37.3	9.0	5.9	0.0
20°	480.9	289.3	136.6	41.6	9.3	6.0	0.0
17.5°	519.8	317.8	151.6	46.0	9.6	6.2	0.0
15°	557.2	345.1	166.3	50.4	9.9	6.3	0.0
12.5°	592.1	371.2	180.4	54.8	10.1	6.4	0.0
10°	624.5	395.8	193.9	59.1	10.4	6.5	0.0
7.5°	654.3	418.8	206.7	63.3	10.6	6.6	0.0
5°	681.4	440.0	218.6	67.3	10.9	6.7	0.0
2.5°	705.7	459.3	229.5	71.1	11.1	6.7	0.0
0°	727.1	476.4	239.3	74.5	11.3	6.8	0.0
-2.5°	737.7	487.3	248.4	79.4	13.1	7.2	0.0
-5°	745.5	495.8	256.2	83.8	14.8	7.6	0.0
-7.5°	750.5	502.1	262.5	87.8	16.5	7.9	0.0
-10°	752.7	506.0	267.3	91.3	18.1	8.2	0.0
-12.5°	752.3	507.6	270.5	94.2	19.7	8.5	0.0
-15°	749.4	506.8	272.0	96.5	21.1	8.8	0.0
-17.5°	743.9	503.8	271.8	98.2	22.5	9.1	0.0
-20°	735.4	498.5	269.9	99.2	23.7	9.3	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	723.1	490.9	266.1	99.5	24.9	9.5	0.0
-25°	707.9	479.1	260.4	99.1	25.9	9.6	0.0
-27.5°	689.9	464.4	252.8	97.8	26.7	9.7	0.0
-30°	669.1	447.6	243.4	95.8	27.4	9.8	0.0
-32.5°	645.5	428.9	232.3	93.0	27.9	9.8	0.0
-35°	620.0	408.2	220.0	89.4	28.3	9.8	0.0
-37.5°	592.6	387.5	206.4	84.9	28.5	9.7	0.0
-40°	563.0	368.7	191.7	79.6	28.5	9.6	0.0
-42.5°	531.4	348.5	180.5	73.9	28.4	9.5	0.0
-45°	497.8	327.1	172.8	68.1	28.0	9.3	0.0
-47.5°	462.3	304.4	163.8	61.5	27.5	9.1	0.0
-50°	432.6	280.5	153.5	59.3	26.8	8.8	0.0
-52.5°	402.9	255.4	141.8	58.1	26.0	8.5	0.0
-55°	372.1	236.5	128.8	56.3	24.9	8.1	0.0
-57.5°	340.1	217.3	114.6	53.8	23.7	7.7	0.0
-60°	307.6	196.3	99.7	50.8	22.4	7.3	0.0
-62.5°	277.9	173.6	92.6	47.2	21.0	6.8	0.0
-65°	246.1	149.4	84.5	43.0	19.5	6.3	0.0
-67.5°	212.2	129.1	75.5	38.4	17.9	5.8	0.0
-70°	176.6	113.0	65.7	33.3	16.2	5.2	0.0
-72.5°	149.4	95.7	55.1	29.3	14.4	4.6	0.0
-75°	122.1	77.3	43.9	25.5	12.5	4.0	0.0
-77.5°	93.5	58.0	36.2	21.5	10.5	3.4	0.0
-80°	63.9	44.2	29.3	17.4	8.5	2.7	0.0
-82.5°	46.9	33.4	22.1	13.1	6.4	2.1	0.0
-85°	31.4	22.4	14.8	8.8	4.3	1.4	0.0
-87.5°	15.8	11.2	7.4	4.4	2.2	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)