

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: P645503 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA5B-730-U-LAM-VSR-XX

Issue Date: 2/28/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P645503 (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: 5/4/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA5B-730-U-LAM-VSR-XX  
Description: GALLEON FLOOD, FIVE LIGHT SQAURE, LAMBERTIAN WITH VISOR  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15601.2 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')

NEMA Type: 7H x 7V  
Max Intensity: 6653.5 candela  
Max Intensity Angle: 0°H x -20°V

Beam Angle (50%): 105.6°H x 93.7°V  
Beam Lumens: 12196.1 lumens  
Beam Efficiency: 78.2%

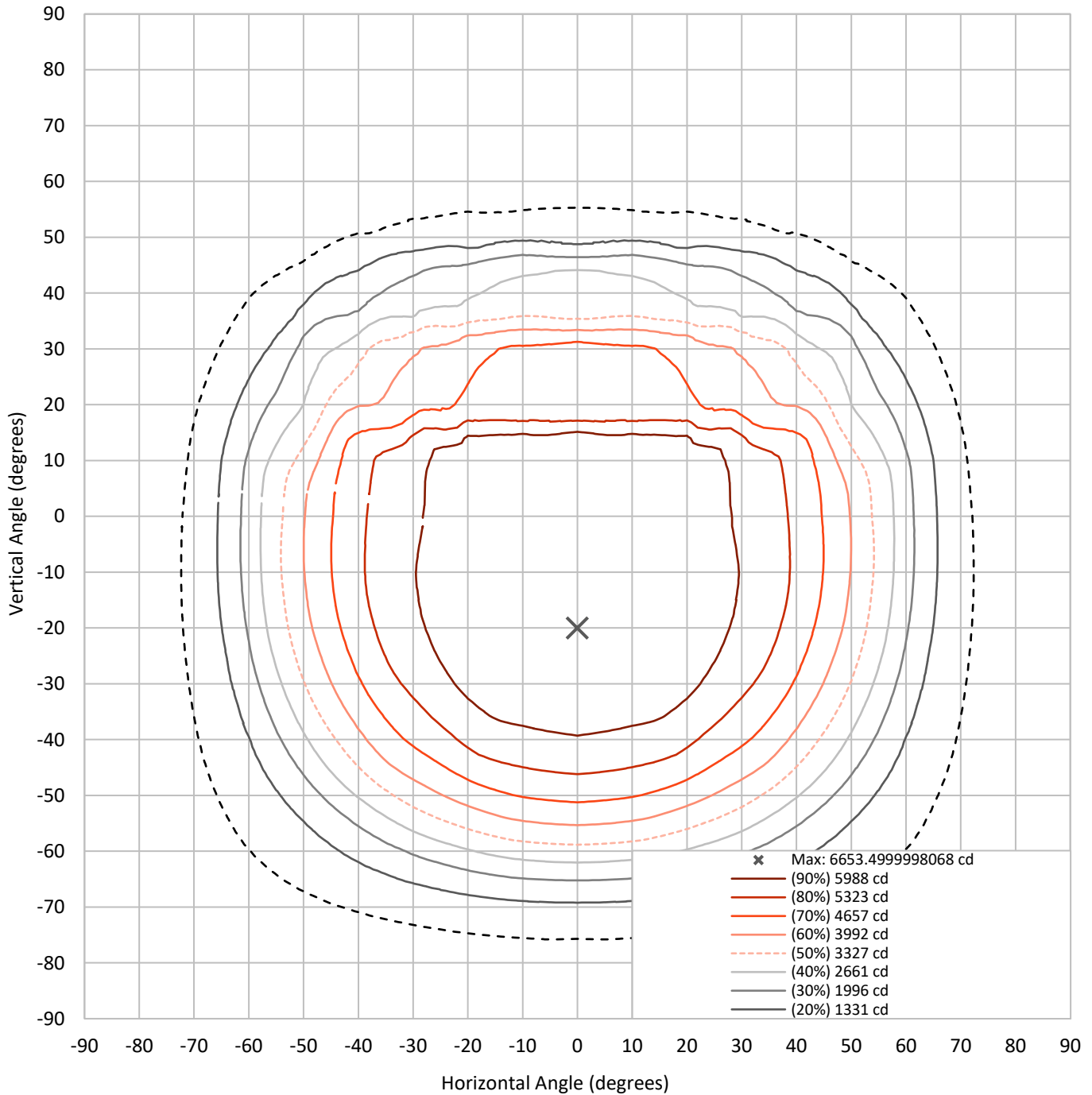
Field Angle (10%): 144°H x 131.2°V  
Field Lumens: 15291.4 lumens  
Field Efficiency: 98.0%

Input Watts (W): 158.7  
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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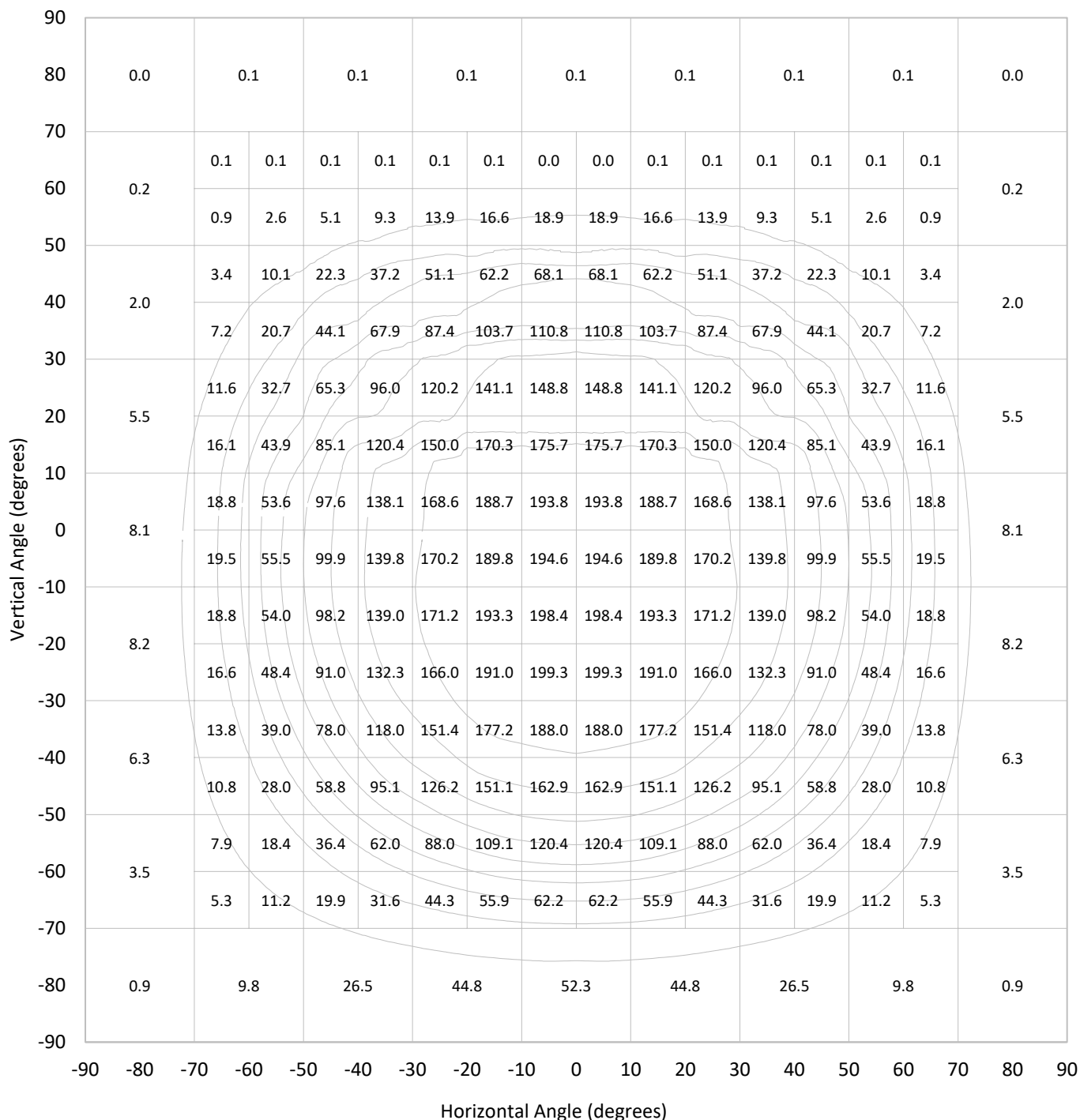
### Iso-Candela Plot





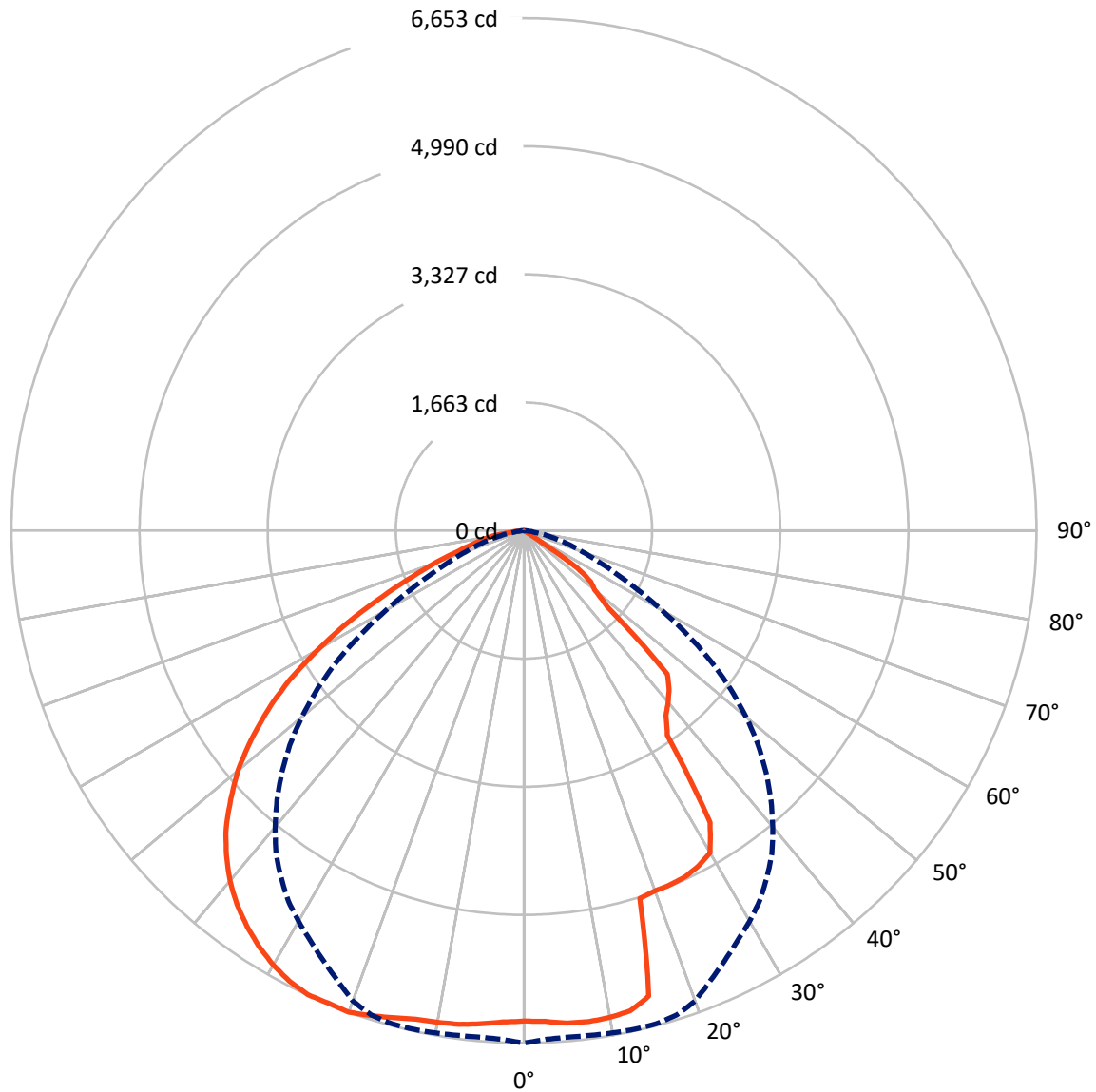
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### Lumen Table



REPORT NUMBER: P645503 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Luminous Intensity Polar Plot

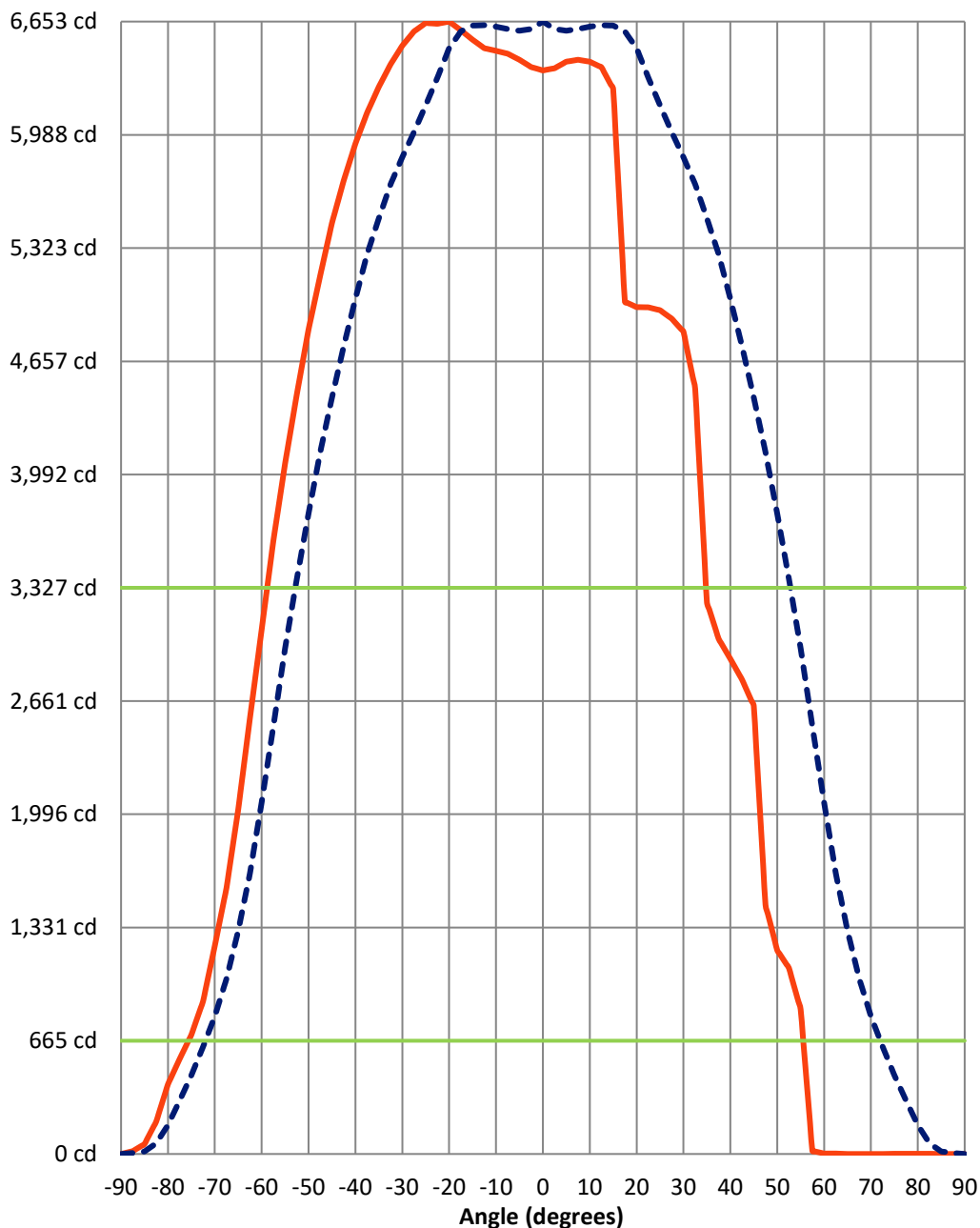


— Vertical Distribution Through 0-Deg    - - - Horizontal Distribution Through -20-Deg



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 105.6°  
 V Angle: 93.7°  
 Lumens: 12196.1  
 Efficiency: 78.2%

**Field:**  
 H Angle: 144°  
 V Angle: 131.2°  
 Lumens: 15291.4  
 Efficiency: 98.0%

**Spill:**  
 Lumens: 309.8  
 Efficiency: 2.0%

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

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Scaled Data Report



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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	0.2	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.6
85°	0.0	0.3	0.5	0.7	1.0	1.2	1.4	1.5	1.4	1.3	1.2
82.5°	0.0	0.5	0.7	1.1	1.5	1.8	2.2	2.2	2.1	1.8	1.4
80°	0.0	0.6	1.0	1.5	1.9	2.4	2.8	2.5	2.1	1.8	1.4
77.5°	0.0	0.8	1.2	1.8	2.4	2.8	2.8	2.5	2.2	1.8	1.5
75°	0.0	0.9	1.5	2.2	2.8	2.9	2.8	2.5	2.2	1.8	1.5
72.5°	0.0	1.1	1.7	2.5	3.0	3.0	2.9	2.6	2.2	1.9	1.5
70°	0.0	1.2	2.0	2.8	3.1	3.1	3.0	2.6	2.3	1.9	2.2
67.5°	0.0	1.4	2.2	3.0	3.3	3.3	3.3	2.6	2.3	3.1	3.2
65°	0.0	1.5	2.5	3.1	3.4	3.8	3.8	2.7	3.7	4.4	5.5
62.5°	0.0	1.7	2.7	3.3	3.6	4.7	4.4	3.8	5.2	7.7	12.3
60°	0.0	1.8	3.0	3.4	3.7	5.7	5.2	5.3	6.8	19.7	21.4
57.5°	0.0	2.0	3.2	3.6	4.8	6.8	9.7	7.5	19.3	33.5	38.9
55°	0.0	2.1	3.3	3.8	6.0	8.0	15.5	12.2	35.8	51.7	63.0
52.5°	0.0	2.3	3.5	3.9	7.3	10.3	22.2	31.1	53.7	81.1	91.4
50°	0.0	2.4	3.7	4.1	8.5	17.6	29.9	52.5	76.9	113.9	142.8
47.5°	0.0	2.5	3.8	4.5	9.9	25.5	40.3	75.0	110.8	150.0	195.3
45°	0.0	2.7	4.0	5.5	11.3	33.9	60.8	98.6	148.8	195.5	246.3
42.5°	0.0	2.8	4.2	6.6	12.8	42.8	81.8	128.4	187.4	239.8	305.1
40°	0.0	2.9	4.4	8.0	17.2	52.3	103.2	162.4	227.2	283.3	368.0
37.5°	0.0	3.0	4.6	9.7	24.6	62.2	125.1	196.4	268.9	335.5	433.7
35°	0.0	3.2	4.7	11.6	32.1	77.3	147.3	230.4	311.3	399.6	511.4
32.5°	0.0	3.3	4.9	13.7	39.8	94.8	171.4	264.3	354.2	464.1	605.8
30°	0.0	3.4	5.1	15.9	47.4	112.2	198.9	298.6	397.4	528.8	696.4
27.5°	0.0	3.5	5.3	18.3	56.9	129.4	225.9	334.2	445.0	593.4	783.0
25°	0.0	3.6	5.5	20.8	66.6	146.3	252.3	369.4	498.7	663.9	865.6
22.5°	0.0	3.7	5.7	23.5	76.3	163.5	277.8	404.1	551.2	734.4	949.2
20°	0.0	3.8	5.9	26.2	85.9	182.0	302.5	438.1	602.5	800.9	1030.7
17.5°	0.0	3.9	6.0	29.0	95.4	199.9	327.0	471.0	652.1	863.3	1109.7
15°	0.0	4.0	6.2	31.7	104.6	217.1	350.5	501.7	699.7	921.5	1185.6
12.5°	0.0	4.0	6.4	34.5	113.5	233.5	372.5	529.0	737.7	975.4	1257.8
10°	0.0	4.1	6.5	37.2	122.0	249.0	392.9	554.2	766.1	1007.8	1316.6
7.5°	0.0	4.2	6.7	39.9	130.1	263.5	411.6	577.1	790.2	1032.8	1350.9
5°	0.0	4.2	6.8	42.4	137.6	276.8	428.6	597.8	810.3	1053.0	1378.8
2.5°	0.0	4.3	7.0	44.7	144.4	288.9	443.9	616.1	826.7	1068.6	1400.1
0°	0.0	4.3	7.1	46.9	150.6	299.7	457.4	632.1	839.5	1079.6	1414.8
-2.5°	0.0	4.5	8.2	50.0	156.3	306.5	464.1	641.4	844.1	1093.5	1424.4
-5°	0.0	4.8	9.3	52.8	161.2	311.9	469.0	648.2	845.7	1102.6	1427.4
-7.5°	0.0	5.0	10.4	55.3	165.2	315.8	472.1	652.5	844.5	1106.2	1424.2
-10°	0.0	5.2	11.4	57.5	168.2	318.3	473.5	654.1	840.9	1104.1	1415.2
-12.5°	0.0	5.4	12.4	59.3	170.2	319.3	473.3	653.0	835.1	1095.2	1399.6
-15°	0.0	5.6	13.3	60.8	171.2	318.9	471.4	649.2	828.5	1077.8	1377.1
-17.5°	0.0	5.7	14.2	61.8	171.1	317.0	468.0	641.4	820.4	1056.1	1347.8
-20°	0.0	5.9	14.9	62.4	169.8	313.6	462.6	630.2	809.0	1030.2	1311.6



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.0	15.7	62.6	167.4	308.8	454.9	616.8	794.0	1000.4	1268.7
-25°	0.0	6.1	16.3	62.3	163.9	301.4	445.4	601.2	775.6	966.8	1219.0
-27.5°	0.0	6.1	16.8	61.6	159.1	292.1	434.0	583.5	753.6	934.3	1174.9
-30°	0.0	6.2	17.2	60.3	153.1	281.6	420.9	563.8	729.5	906.8	1127.9
-32.5°	0.0	6.2	17.6	58.5	146.2	269.8	406.1	545.5	704.0	875.1	1077.5
-35°	0.0	6.2	17.8	56.2	138.4	256.8	390.0	526.3	676.5	839.1	1024.2
-37.5°	0.0	6.1	17.9	53.4	129.9	243.8	372.8	505.0	646.9	798.8	971.4
-40°	0.0	6.1	18.0	50.1	120.6	231.9	354.2	481.8	615.5	760.8	919.4
-42.5°	0.0	6.0	17.9	46.5	113.6	219.2	334.3	456.6	585.1	720.7	863.3
-45°	0.0	5.9	17.6	42.9	108.8	205.8	313.2	430.5	554.0	677.9	805.2
-47.5°	0.0	5.7	17.3	38.7	103.1	191.5	290.8	404.4	520.7	633.0	755.0
-50°	0.0	5.5	16.9	37.3	96.6	176.5	272.1	377.1	483.9	591.8	702.4
-52.5°	0.0	5.3	16.3	36.6	89.2	160.7	253.5	348.5	448.7	549.3	648.4
-55°	0.0	5.1	15.7	35.4	81.1	148.8	234.1	319.5	413.4	505.7	600.5
-57.5°	0.0	4.9	14.9	33.9	72.1	136.7	213.9	296.6	376.8	463.9	551.5
-60°	0.0	4.6	14.1	32.0	62.7	123.5	193.5	271.2	340.3	421.7	502.6
-62.5°	0.0	4.3	13.2	29.7	58.3	109.2	174.8	243.6	306.5	378.3	454.7
-65°	0.0	4.0	12.3	27.1	53.2	94.0	154.8	214.9	270.6	334.8	405.6
-67.5°	0.0	3.6	11.3	24.2	47.5	81.3	133.6	186.4	232.9	289.3	352.7
-70°	0.0	3.3	10.2	21.0	41.3	71.1	111.1	157.3	199.1	241.8	296.2
-72.5°	0.0	2.9	9.1	18.5	34.7	60.2	94.0	127.5	164.7	202.4	240.6
-75°	0.0	2.5	7.9	16.0	27.6	48.6	76.9	102.8	129.6	162.5	195.8
-77.5°	0.0	2.1	6.6	13.5	22.8	36.5	58.9	79.4	100.8	124.0	150.4
-80°	0.0	1.7	5.4	10.9	18.4	27.8	40.2	55.7	72.2	90.1	109.4
-82.5°	0.0	1.3	4.0	8.3	13.9	21.0	29.5	35.7	43.1	55.8	69.4
-85°	0.0	0.9	2.7	5.5	9.3	14.1	19.8	23.9	28.1	32.5	37.1
-87.5°	0.0	0.4	1.4	2.8	4.7	7.1	9.9	12.0	14.1	16.3	18.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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 CATALOG NUMBER: GFLD-SA5B-730-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°	2.2	2.3	2.0	1.6	1.4	1.5	1.6	1.5	1.4	1.4	1.4
67.5°	2.7	2.4	2.0	1.9	1.9	2.1	2.1	1.7	1.4	1.4	1.4
65°	2.8	2.4	3.5	4.0	2.9	2.5	2.1	1.8	1.9	2.0	2.0
62.5°	4.2	5.3	6.8	12.0	8.9	2.6	4.6	5.5	4.0	3.3	3.6
60°	13.8	9.4	28.0	40.1	25.0	9.1	11.1	37.1	32.2	5.9	20.1
57.5°	29.2	40.0	73.7	75.0	51.9	35.8	104.2	120.3	91.1	53.1	81.3
55°	64.2	98.7	122.2	113.1	123.5	187.1	222.4	199.8	168.1	258.7	330.5
52.5°	125.5	160.6	168.6	193.6	277.1	318.4	305.1	326.2	423.1	525.5	547.7
50°	185.2	214.0	236.4	341.8	407.1	411.3	441.6	537.6	666.7	729.4	714.3
47.5°	243.0	272.8	377.2	478.5	507.8	548.0	623.9	809.1	945.9	948.6	933.1
45°	304.0	383.6	516.9	583.0	630.6	708.4	891.6	1147.0	1160.3	1197.4	1425.7
42.5°	369.4	508.8	625.1	693.8	770.7	915.9	1160.4	1328.0	1385.6	1548.1	1731.7
40°	475.2	629.7	731.3	819.1	918.1	1129.9	1397.7	1554.7	1601.5	1742.2	1880.2
37.5°	582.5	730.7	844.5	950.5	1087.7	1373.5	1683.3	1812.8	1836.5	1862.3	2168.0
35°	685.9	834.3	970.5	1109.2	1277.4	1688.9	1959.7	2081.4	2077.7	2251.3	2571.5
32.5°	782.6	940.1	1101.0	1286.4	1563.9	1985.5	2256.4	2329.3	2439.9	2692.5	3129.5
30°	879.1	1058.2	1242.9	1463.9	1815.3	2180.7	2490.0	2607.3	2796.8	3085.1	3403.2
27.5°	978.5	1179.3	1402.7	1661.5	2013.7	2349.7	2613.9	2894.1	3078.2	3336.5	3562.8
25°	1077.5	1307.5	1560.4	1834.3	2155.6	2468.7	2742.0	3065.6	3263.2	3471.5	3682.6
22.5°	1181.3	1437.4	1723.1	1971.3	2275.2	2569.9	2895.2	3246.2	3503.2	3635.6	3777.3
20°	1289.8	1578.0	1882.7	2157.7	2393.2	2663.9	3049.0	3475.5	3807.2	3956.2	3975.7
17.5°	1396.8	1714.3	2041.8	2339.5	2593.6	2834.5	3210.4	3750.2	4162.7	4301.3	4362.8
15°	1501.2	1845.3	2200.1	2516.5	2795.4	3090.0	3491.5	4040.3	4512.0	4665.2	4762.2
12.5°	1601.9	1970.3	2355.8	2687.6	2997.4	3327.8	3746.7	4249.1	4679.6	4976.0	5153.8
10°	1697.8	2088.3	2506.9	2851.9	3197.1	3548.3	3957.8	4404.6	4755.1	5041.0	5293.4
7.5°	1746.2	2165.4	2636.8	3008.2	3391.7	3752.2	4130.7	4514.3	4809.4	5089.8	5333.9
5°	1779.1	2197.0	2677.3	3062.7	3495.2	3888.2	4255.7	4586.3	4844.9	5122.8	5361.2
2.5°	1802.6	2217.6	2704.8	3092.5	3534.0	3930.0	4291.7	4610.3	4874.1	5146.4	5390.6
0°	1816.8	2227.3	2718.8	3110.9	3558.3	3957.5	4312.6	4619.4	4893.6	5157.8	5420.6
-2.5°	1824.8	2257.1	2728.1	3158.0	3581.8	3981.2	4341.8	4641.3	4927.9	5179.3	5442.7
-5°	1823.8	2274.9	2725.7	3189.7	3593.1	3990.4	4356.5	4651.2	4946.5	5195.4	5451.7
-7.5°	1813.9	2279.0	2713.4	3199.6	3593.6	3987.3	4350.0	4656.0	4946.2	5210.1	5452.6
-10°	1796.3	2262.9	2702.0	3173.9	3579.8	3971.1	4330.4	4645.6	4934.6	5207.2	5447.9
-12.5°	1775.5	2229.7	2678.3	3137.0	3551.7	3940.9	4300.6	4619.0	4913.0	5184.8	5437.0
-15°	1744.2	2185.5	2639.4	3090.0	3509.1	3897.0	4261.9	4575.6	4879.6	5145.9	5404.8
-17.5°	1702.2	2130.8	2584.6	3034.3	3451.7	3839.7	4212.3	4518.3	4820.9	5095.9	5345.8
-20°	1649.3	2065.9	2513.5	2971.0	3378.7	3762.6	4123.6	4444.1	4744.7	5024.5	5287.1



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 CATALOG NUMBER: GFLD-SA5B-730-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°	1585.4	1991.4	2427.9	2885.5	3287.8	3667.3	4024.0	4349.6	4661.1	4931.8	5211.5
-25°	1521.3	1912.6	2333.2	2767.2	3182.1	3560.0	3917.7	4235.0	4553.4	4834.9	5100.6
-27.5°	1459.9	1821.1	2223.3	2637.0	3062.3	3438.5	3793.0	4110.4	4419.5	4727.3	4983.1
-30°	1391.0	1715.4	2102.9	2498.0	2912.6	3295.6	3652.7	3982.1	4276.3	4580.2	4854.9
-32.5°	1315.0	1603.2	1975.6	2355.7	2746.7	3138.1	3492.0	3819.1	4125.2	4412.6	4700.9
-35°	1240.7	1512.5	1840.8	2203.0	2570.9	2954.9	3309.0	3633.1	3950.6	4235.4	4510.9
-37.5°	1173.9	1414.4	1697.5	2043.5	2395.1	2758.3	3118.4	3432.1	3734.3	4047.4	4316.1
-40°	1101.5	1309.0	1573.3	1879.2	2210.6	2556.0	2900.8	3225.3	3509.4	3818.8	4114.3
-42.5°	1025.8	1223.2	1450.9	1705.3	2018.1	2343.8	2676.6	2994.0	3289.1	3580.9	3873.8
-45°	959.4	1132.4	1326.3	1558.7	1813.4	2119.7	2434.9	2751.3	3034.4	3312.6	3601.8
-47.5°	888.9	1041.1	1220.4	1406.0	1627.4	1883.5	2179.9	2471.7	2761.5	3026.2	3282.1
-50°	818.6	958.9	1106.3	1273.4	1456.0	1663.6	1909.8	2181.1	2445.9	2717.6	2971.1
-52.5°	758.0	872.4	1005.6	1145.1	1301.5	1473.2	1670.4	1893.3	2134.0	2364.6	2617.5
-55°	695.2	798.3	905.8	1028.6	1158.8	1303.7	1465.3	1652.7	1836.4	2049.6	2256.1
-57.5°	637.9	724.9	816.5	917.9	1031.0	1147.0	1288.3	1434.0	1600.7	1766.4	1929.9
-60°	583.9	654.9	732.7	818.5	909.4	1012.6	1118.1	1243.2	1377.5	1509.8	1648.5
-62.5°	529.4	589.2	652.6	723.9	803.1	881.1	971.2	1067.5	1166.3	1278.5	1387.9
-65°	473.4	521.7	575.5	634.6	697.8	764.3	833.4	904.8	988.9	1071.0	1150.5
-67.5°	413.9	455.3	498.8	545.3	598.4	650.5	702.6	762.9	824.8	885.6	948.6
-70°	348.0	387.0	423.2	461.0	500.4	541.3	585.8	630.0	673.6	719.2	769.8
-72.5°	280.9	316.8	348.7	376.6	409.0	442.9	475.5	506.5	539.4	574.0	608.3
-75°	224.0	247.8	276.2	302.3	328.0	351.9	373.4	399.7	427.2	452.3	473.0
-77.5°	174.9	196.4	215.9	233.4	253.9	277.8	298.7	316.7	334.1	353.2	373.3
-80°	127.2	145.1	162.9	179.0	190.8	204.4	220.4	238.7	254.6	267.5	279.3
-82.5°	82.1	95.1	108.3	121.7	127.2	130.9	134.4	140.8	150.6	160.3	169.6
-85°	40.9	44.7	52.8	61.0	63.9	65.9	67.2	68.0	71.3	74.4	77.1
-87.5°	20.5	22.4	24.2	26.1	25.1	23.8	22.1	20.1	19.6	19.0	18.3
-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):**

	-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	2.0	2.0	1.7	1.7	1.7	1.7	1.5	1.2	0.8
62.5°	3.5	4.0	3.2	3.1	3.1	3.0	2.8	2.7	2.5	2.4	2.5
60°	22.3	13.2	7.7	9.0	8.1	5.4	6.8	8.0	8.1	7.4	6.5
57.5°	123.5	92.2	68.3	163.0	163.5	78.1	94.0	147.8	121.7	39.9	37.1
55°	343.5	410.8	540.7	513.6	521.9	600.3	655.5	580.3	568.9	606.2	700.3
52.5°	617.1	681.3	725.0	765.8	815.6	869.1	924.1	959.2	991.9	1026.8	1047.6
50°	788.0	878.5	940.6	917.8	1046.5	1099.1	1045.6	1093.4	1151.7	1167.7	1175.2
47.5°	1163.6	1296.3	1322.6	1408.1	1484.8	1483.2	1417.9	1421.7	1595.3	1748.4	1823.6
45°	1672.2	1676.8	1760.2	1911.1	2018.9	1985.0	2076.0	2283.0	2351.9	2418.5	2473.1
42.5°	1870.4	1952.5	2085.6	2219.0	2299.4	2369.2	2436.6	2512.7	2602.1	2674.7	2732.7
40°	2062.3	2128.4	2264.7	2372.2	2438.8	2503.9	2582.5	2666.8	2748.6	2812.4	2855.9
37.5°	2357.5	2408.9	2442.1	2541.8	2667.8	2609.6	2758.7	2865.6	2914.4	2979.1	2984.9
35°	2804.3	2770.2	2726.1	3123.2	3146.9	3012.8	3152.2	3317.8	3230.5	3412.4	3510.2
32.5°	3200.4	3195.3	3542.0	3750.8	3630.6	3728.7	4050.0	4035.7	4249.9	4349.3	4320.9
30°	3573.6	3700.9	3901.4	4056.9	4077.7	4232.3	4375.0	4500.0	4629.3	4745.1	4753.1
27.5°	3763.0	3929.2	4065.3	4155.3	4255.7	4385.7	4515.3	4656.0	4766.0	4838.6	4856.4
25°	3877.6	4047.4	4150.4	4247.3	4358.1	4470.4	4615.4	4768.6	4856.9	4901.8	4916.1
22.5°	3978.7	4131.2	4242.0	4320.6	4439.8	4560.6	4695.7	4825.5	4921.5	4941.0	4948.2
20°	4075.9	4222.5	4407.5	4523.2	4517.4	4653.4	4783.7	4886.9	4966.9	4966.4	4968.3
17.5°	4357.3	4409.5	4745.3	5000.2	4874.0	4807.4	5165.6	5172.4	5193.7	5151.4	5059.8
15°	4773.8	4869.0	5281.5	5557.8	5470.8	5466.2	5983.6	5855.3	5965.7	5936.8	6061.1
12.5°	5215.0	5327.8	5636.0	5907.3	6036.7	6068.4	6241.2	6403.1	6436.4	6423.3	6398.9
10°	5515.6	5676.3	5800.0	5964.7	6095.2	6228.2	6328.3	6444.5	6482.7	6460.6	6429.5
7.5°	5554.7	5713.5	5858.9	6003.4	6127.6	6234.7	6338.6	6433.3	6472.0	6459.2	6437.8
5°	5579.6	5723.5	5864.4	6011.0	6129.7	6229.0	6332.6	6428.4	6451.3	6435.9	6415.1
2.5°	5595.0	5728.1	5863.9	6009.9	6117.8	6212.3	6317.1	6419.4	6419.2	6412.5	6400.3
0°	5602.4	5735.9	5893.6	6025.7	6146.4	6235.9	6339.6	6439.1	6432.0	6413.5	6392.2
-2.5°	5618.3	5753.6	5914.5	6024.0	6160.2	6242.1	6349.3	6435.4	6432.1	6423.0	6412.5
-5°	5632.6	5784.7	5935.3	6050.4	6186.9	6294.0	6400.5	6467.9	6471.5	6458.9	6441.1
-7.5°	5641.3	5809.9	5953.5	6069.2	6201.5	6326.1	6434.2	6504.8	6506.4	6489.6	6468.4
-10°	5638.4	5816.5	5964.3	6083.8	6219.3	6342.4	6455.4	6544.9	6542.1	6526.1	6507.9
-12.5°	5627.7	5805.6	5957.4	6077.2	6231.1	6357.9	6485.0	6574.0	6578.8	6566.8	6547.2
-15°	5604.3	5787.9	5935.6	6066.5	6217.3	6365.5	6496.1	6594.3	6611.9	6602.1	6586.6
-17.5°	5558.1	5751.8	5908.4	6049.5	6194.2	6352.1	6500.6	6608.1	6632.1	6628.2	6615.4
-20°	5497.3	5697.3	5856.2	6004.0	6161.5	6324.2	6497.0	6595.3	6630.0	6632.3	6623.6



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5429.1	5624.8	5793.5	5938.8	6109.6	6274.3	6430.8	6545.8	6604.3	6615.1	6615.9
-25°	5347.2	5548.4	5716.0	5870.7	6029.6	6199.7	6357.8	6486.3	6545.5	6573.8	6582.6
-27.5°	5231.6	5439.6	5604.5	5768.0	5929.6	6105.3	6271.5	6411.2	6459.4	6498.3	6513.9
-30°	5096.2	5301.9	5470.0	5619.5	5804.4	5983.4	6155.0	6276.9	6349.6	6394.1	6418.4
-32.5°	4940.5	5148.1	5324.6	5480.7	5656.4	5835.5	5996.8	6125.4	6225.6	6277.0	6303.0
-35°	4771.7	4983.6	5168.3	5332.8	5498.2	5669.0	5836.2	5970.6	6084.8	6128.9	6161.5
-37.5°	4568.0	4801.8	4991.2	5160.9	5318.1	5478.5	5652.6	5806.4	5917.3	5960.1	5994.4
-40°	4359.2	4585.1	4776.2	4957.1	5112.6	5287.7	5455.5	5616.6	5712.8	5762.7	5801.6
-42.5°	4138.7	4342.8	4524.5	4700.3	4873.4	5053.7	5221.3	5388.7	5472.0	5532.1	5579.9
-45°	3884.2	4074.2	4250.7	4415.2	4593.6	4770.9	4938.6	5086.6	5185.6	5264.0	5324.9
-47.5°	3544.9	3776.3	3953.6	4110.0	4286.9	4458.0	4620.5	4759.6	4868.2	4959.8	5030.6
-50°	3200.3	3422.4	3622.3	3798.1	3962.2	4120.4	4275.1	4411.2	4526.1	4625.4	4697.1
-52.5°	2861.0	3069.0	3267.4	3448.8	3606.6	3755.9	3897.5	4034.4	4155.6	4261.8	4331.2
-55°	2477.5	2693.0	2889.3	3058.5	3216.1	3363.7	3503.5	3633.3	3752.7	3860.8	3927.3
-57.5°	2117.8	2306.8	2489.4	2645.6	2794.4	2935.0	3067.5	3191.8	3306.6	3408.4	3472.5
-60°	1787.1	1924.9	2082.1	2226.3	2358.2	2477.8	2601.5	2717.4	2822.9	2912.4	2972.1
-62.5°	1494.9	1609.1	1722.5	1832.2	1939.2	2046.7	2150.2	2246.3	2334.5	2407.8	2460.1
-65°	1234.5	1326.3	1408.3	1486.1	1560.2	1644.9	1723.6	1797.7	1866.2	1922.4	1962.2
-67.5°	1016.5	1081.0	1137.7	1191.0	1249.5	1309.4	1365.6	1414.5	1456.4	1489.7	1516.0
-70°	819.7	867.2	910.0	952.5	995.2	1034.1	1071.3	1107.3	1141.5	1169.3	1190.2
-72.5°	642.0	674.4	703.5	736.3	767.0	796.6	822.3	843.0	859.1	874.8	888.5
-75°	489.4	513.8	546.6	574.4	597.3	617.6	636.2	652.8	667.3	680.2	691.6
-77.5°	393.7	414.4	435.3	455.5	475.1	489.6	503.1	516.6	529.9	541.3	551.4
-80°	291.8	307.2	323.3	339.6	355.8	363.8	370.2	376.1	381.4	388.2	394.6
-82.5°	178.4	187.1	196.1	205.2	214.3	216.6	217.4	217.2	216.0	213.5	209.8
-85°	79.4	79.8	79.6	78.7	77.2	74.0	70.2	65.7	60.7	60.0	59.0
-87.5°	17.5	17.1	16.6	16.0	15.4	15.4	15.3	15.2	15.1	15.6	16.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-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°	2.6	2.7	2.8	2.8	2.8	2.7	2.6	2.5	2.4	2.5	2.7
60°	5.1	3.3	2.8	2.8	2.8	3.3	5.1	6.5	7.4	8.1	8.0
57.5°	31.4	23.4	19.9	18.5	19.9	23.4	31.4	37.1	39.9	121.7	147.8
55°	767.7	806.7	835.9	849.4	835.9	806.7	767.7	700.3	606.2	568.9	580.3
52.5°	1065.9	1082.9	1092.7	1092.4	1092.7	1082.9	1065.9	1047.6	1026.8	991.9	959.2
50°	1188.1	1196.4	1199.3	1197.5	1199.3	1196.4	1188.1	1175.2	1167.7	1151.7	1093.4
47.5°	1754.9	1603.0	1491.3	1464.5	1491.3	1603.0	1754.9	1823.6	1748.4	1595.3	1421.7
45°	2499.3	2556.9	2614.3	2632.2	2614.3	2556.9	2499.3	2473.1	2418.5	2351.9	2283.0
42.5°	2757.2	2776.0	2786.6	2787.0	2786.6	2776.0	2757.2	2732.7	2674.7	2602.1	2512.7
40°	2880.2	2897.9	2908.2	2909.2	2908.2	2897.9	2880.2	2855.9	2812.4	2748.6	2666.8
37.5°	2992.0	3007.0	3017.0	3027.1	3017.0	3007.0	2992.0	2984.9	2979.1	2914.4	2865.6
35°	3497.0	3382.6	3218.1	3243.0	3218.1	3382.6	3497.0	3510.2	3412.4	3230.5	3317.8
32.5°	4365.2	4413.3	4443.3	4494.4	4443.3	4413.3	4365.2	4320.9	4349.3	4249.9	4035.7
30°	4765.8	4781.7	4805.8	4831.1	4805.8	4781.7	4765.8	4753.1	4745.1	4629.3	4500.0
27.5°	4865.8	4882.2	4896.9	4907.8	4896.9	4882.2	4865.8	4856.4	4838.6	4766.0	4656.0
25°	4918.1	4928.3	4943.8	4957.5	4943.8	4928.3	4918.1	4916.1	4901.8	4856.9	4768.6
22.5°	4944.1	4945.1	4957.3	4974.5	4957.3	4945.1	4944.1	4948.2	4941.0	4921.5	4825.5
20°	4961.9	4952.2	4964.8	4976.0	4964.8	4952.2	4961.9	4968.3	4966.4	4966.9	4886.9
17.5°	5189.0	5059.5	5006.2	5007.2	5006.2	5059.5	5189.0	5059.8	5151.4	5193.7	5172.4
15°	5921.6	5970.2	6156.6	6257.2	6156.6	5970.2	5921.6	6061.1	5936.8	5965.7	5855.3
12.5°	6394.3	6377.0	6354.9	6385.1	6354.9	6377.0	6394.3	6398.9	6423.3	6436.4	6403.1
10°	6416.2	6414.3	6374.8	6417.7	6374.8	6414.3	6416.2	6429.5	6460.6	6482.7	6444.5
7.5°	6402.8	6404.0	6387.2	6429.1	6387.2	6404.0	6402.8	6437.8	6459.2	6472.0	6433.3
5°	6411.7	6382.9	6393.8	6417.7	6393.8	6382.9	6411.7	6415.1	6435.9	6451.3	6428.4
2.5°	6386.9	6383.9	6362.6	6379.4	6362.6	6383.9	6386.9	6400.3	6412.5	6419.2	6419.4
0°	6368.0	6352.4	6352.4	6366.6	6352.4	6352.4	6368.0	6392.2	6413.5	6432.0	6439.1
-2.5°	6401.6	6398.4	6396.3	6386.5	6396.3	6398.4	6401.6	6412.5	6423.0	6432.1	6435.4
-5°	6429.2	6420.8	6397.5	6429.1	6397.5	6420.8	6429.2	6441.1	6458.9	6471.5	6467.9
-7.5°	6458.9	6437.4	6415.3	6464.6	6415.3	6437.4	6458.9	6468.4	6489.6	6506.4	6504.8
-10°	6486.1	6454.9	6433.4	6481.7	6433.4	6454.9	6486.1	6507.9	6526.1	6542.1	6544.9
-12.5°	6521.9	6485.5	6471.2	6497.3	6471.2	6485.5	6521.9	6547.2	6566.8	6578.8	6574.0
-15°	6560.2	6535.0	6531.6	6547.0	6531.6	6535.0	6560.2	6586.6	6602.1	6611.9	6594.3
-17.5°	6593.8	6576.0	6584.8	6602.4	6584.8	6576.0	6593.8	6615.4	6628.2	6632.1	6608.1
-20°	6609.8	6599.9	6609.8	6653.5	6609.8	6599.9	6609.8	6623.6	6632.3	6630.0	6595.3

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Cooper Lighting Solutions Photometric Lab  
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REPORT NUMBER: P645503 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLD-SA5B-730-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°	6608.5	6609.1	6626.5	6640.8	6626.5	6609.1	6608.5	6615.9	6615.1	6604.3	6545.8
-25°	6583.2	6596.5	6616.5	6645.0	6616.5	6596.5	6583.2	6582.6	6573.8	6545.5	6486.3
-27.5°	6522.5	6544.5	6565.3	6595.3	6565.3	6544.5	6522.5	6513.9	6498.3	6459.4	6411.2
-30°	6434.5	6460.7	6479.3	6511.5	6479.3	6460.7	6434.5	6418.4	6394.1	6349.6	6276.9
-32.5°	6327.5	6357.2	6379.1	6402.1	6379.1	6357.2	6327.5	6303.0	6277.0	6225.6	6125.4
-35°	6193.7	6225.7	6249.1	6270.0	6249.1	6225.7	6193.7	6161.5	6128.9	6084.8	5970.6
-37.5°	6033.0	6067.5	6094.1	6118.0	6094.1	6067.5	6033.0	5994.4	5960.1	5917.3	5806.4
-40°	5845.7	5881.1	5909.5	5936.2	5909.5	5881.1	5845.7	5801.6	5762.7	5712.8	5616.6
-42.5°	5626.8	5662.6	5691.9	5718.9	5691.9	5662.6	5626.8	5579.9	5532.1	5472.0	5388.7
-45°	5374.0	5410.8	5441.8	5470.3	5441.8	5410.8	5374.0	5324.9	5264.0	5185.6	5086.6
-47.5°	5082.9	5122.2	5148.7	5162.0	5148.7	5122.2	5082.9	5030.6	4959.8	4868.2	4759.6
-50°	4749.1	4788.5	4820.4	4843.9	4820.4	4788.5	4749.1	4697.1	4625.4	4526.1	4411.2
-52.5°	4381.8	4419.2	4446.6	4463.2	4446.6	4419.2	4381.8	4331.2	4261.8	4155.6	4034.4
-55°	3979.6	4018.8	4044.7	4056.9	4044.7	4018.8	3979.6	3927.3	3860.8	3752.7	3633.3
-57.5°	3523.4	3560.6	3588.2	3603.8	3588.2	3560.6	3523.4	3472.5	3408.4	3306.6	3191.8
-60°	3018.6	3051.9	3072.8	3081.0	3072.8	3051.9	3018.6	2972.1	2912.4	2822.9	2717.4
-62.5°	2502.3	2533.9	2553.5	2561.1	2553.5	2533.9	2502.3	2460.1	2407.8	2334.5	2246.3
-65°	1992.0	2011.7	2022.6	2024.2	2022.6	2011.7	1992.0	1962.2	1922.4	1866.2	1797.7
-67.5°	1536.8	1551.8	1560.9	1564.0	1560.9	1551.8	1536.8	1516.0	1489.7	1456.4	1414.5
-70°	1205.8	1216.2	1222.0	1223.0	1222.0	1216.2	1205.8	1190.2	1169.3	1141.5	1107.3
-72.5°	899.0	906.5	903.8	897.7	903.8	906.5	899.0	888.5	874.8	859.1	843.0
-75°	701.3	709.5	706.1	700.3	706.1	709.5	701.3	691.6	680.2	667.3	652.8
-77.5°	560.2	567.7	564.0	558.3	564.0	567.7	560.2	551.4	541.3	529.9	516.6
-80°	400.1	404.5	407.6	409.1	407.6	404.5	400.1	394.6	388.2	381.4	376.1
-82.5°	204.8	198.8	194.9	190.3	194.9	198.8	204.8	209.8	213.5	216.0	217.2
-85°	57.9	56.5	57.4	58.2	57.4	56.5	57.9	59.0	60.0	60.7	65.7
-87.5°	16.5	16.9	17.0	17.0	17.0	16.9	16.5	16.1	15.6	15.1	15.2
-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: P645503 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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	1.5
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°	1.7	1.7	1.7	2.0	2.0	1.9	2.0	2.0	2.0	1.9	1.8
62.5°	2.8	3.0	3.1	3.1	3.2	4.0	3.5	3.6	3.3	4.0	5.5
60°	6.8	5.4	8.1	9.0	7.7	13.2	22.3	20.1	5.9	32.2	37.1
57.5°	94.0	78.1	163.5	163.0	68.3	92.2	123.5	81.3	53.1	91.1	120.3
55°	655.5	600.3	521.9	513.6	540.7	410.8	343.5	330.5	258.7	168.1	199.8
52.5°	924.1	869.1	815.6	765.8	725.0	681.3	617.1	547.7	525.5	423.1	326.2
50°	1045.6	1099.1	1046.5	917.8	940.6	878.5	788.0	714.3	729.4	666.7	537.6
47.5°	1417.9	1483.2	1484.8	1408.1	1322.6	1296.3	1163.6	933.1	948.6	945.9	809.1
45°	2076.0	1985.0	2018.9	1911.1	1760.2	1676.8	1672.2	1425.7	1197.4	1160.3	1147.0
42.5°	2436.6	2369.2	2299.4	2219.0	2085.6	1952.5	1870.4	1731.7	1548.1	1385.6	1328.0
40°	2582.5	2503.9	2438.8	2372.2	2264.7	2128.4	2062.3	1880.2	1742.2	1601.5	1554.7
37.5°	2758.7	2609.6	2667.8	2541.8	2442.1	2408.9	2357.5	2168.0	1862.3	1836.5	1812.8
35°	3152.2	3012.8	3146.9	3123.2	2726.1	2770.2	2804.3	2571.5	2251.3	2077.7	2081.4
32.5°	4050.0	3728.7	3630.6	3750.8	3542.0	3195.3	3200.4	3129.5	2692.5	2439.9	2329.3
30°	4375.0	4232.3	4077.7	4056.9	3901.4	3700.9	3573.6	3403.2	3085.1	2796.8	2607.3
27.5°	4515.3	4385.7	4255.7	4155.3	4065.3	3929.2	3763.0	3562.8	3336.5	3078.2	2894.1
25°	4615.4	4470.4	4358.1	4247.3	4150.4	4047.4	3877.6	3682.6	3471.5	3263.2	3065.6
22.5°	4695.7	4560.6	4439.8	4320.6	4242.0	4131.2	3978.7	3777.3	3635.6	3503.2	3246.2
20°	4783.7	4653.4	4517.4	4523.2	4407.5	4222.5	4075.9	3975.7	3956.2	3807.2	3475.5
17.5°	5165.6	4807.4	4874.0	5000.2	4745.3	4409.5	4357.3	4362.8	4301.3	4162.7	3750.2
15°	5983.6	5466.2	5470.8	5557.8	5281.5	4869.0	4773.8	4762.2	4665.2	4512.0	4040.3
12.5°	6241.2	6068.4	6036.7	5907.3	5636.0	5327.8	5215.0	5153.8	4976.0	4679.6	4249.1
10°	6328.3	6228.2	6095.2	5964.7	5800.0	5676.3	5515.6	5293.4	5041.0	4755.1	4404.6
7.5°	6338.6	6234.7	6127.6	6003.4	5858.9	5713.5	5554.7	5333.9	5089.8	4809.4	4514.3
5°	6332.6	6229.0	6129.7	6011.0	5864.4	5723.5	5579.6	5361.2	5122.8	4844.9	4586.3
2.5°	6317.1	6212.3	6117.8	6009.9	5863.9	5728.1	5595.0	5390.6	5146.4	4874.1	4610.3
0°	6339.6	6235.9	6146.4	6025.7	5893.6	5735.9	5602.4	5420.6	5157.8	4893.6	4619.4
-2.5°	6349.3	6242.1	6160.2	6024.0	5914.5	5753.6	5618.3	5442.7	5179.3	4927.9	4641.3
-5°	6400.5	6294.0	6186.9	6050.4	5935.3	5784.7	5632.6	5451.7	5195.4	4946.5	4651.2
-7.5°	6434.2	6326.1	6201.5	6069.2	5953.5	5809.9	5641.3	5452.6	5210.1	4946.2	4656.0
-10°	6455.4	6342.4	6219.3	6083.8	5964.3	5816.5	5638.4	5447.9	5207.2	4934.6	4645.6
-12.5°	6485.0	6357.9	6231.1	6077.2	5957.4	5805.6	5627.7	5437.0	5184.8	4913.0	4619.0
-15°	6496.1	6365.5	6217.3	6066.5	5935.6	5787.9	5604.3	5404.8	5145.9	4879.6	4575.6
-17.5°	6500.6	6352.1	6194.2	6049.5	5908.4	5751.8	5558.1	5345.8	5095.9	4820.9	4518.3
-20°	6497.0	6324.2	6161.5	6004.0	5856.2	5697.3	5497.3	5287.1	5024.5	4744.7	4444.1

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REPORT NUMBER: P645503 (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°	6430.8	6274.3	6109.6	5938.8	5793.5	5624.8	5429.1	5211.5	4931.8	4661.1	4349.6
-25°	6357.8	6199.7	6029.6	5870.7	5716.0	5548.4	5347.2	5100.6	4834.9	4553.4	4235.0
-27.5°	6271.5	6105.3	5929.6	5768.0	5604.5	5439.6	5231.6	4983.1	4727.3	4419.5	4110.4
-30°	6155.0	5983.4	5804.4	5619.5	5470.0	5301.9	5096.2	4854.9	4580.2	4276.3	3982.1
-32.5°	5996.8	5835.5	5656.4	5480.7	5324.6	5148.1	4940.5	4700.9	4412.6	4125.2	3819.1
-35°	5836.2	5669.0	5498.2	5332.8	5168.3	4983.6	4771.7	4510.9	4235.4	3950.6	3633.1
-37.5°	5652.6	5478.5	5318.1	5160.9	4991.2	4801.8	4568.0	4316.1	4047.4	3734.3	3432.1
-40°	5455.5	5287.7	5112.6	4957.1	4776.2	4585.1	4359.2	4114.3	3818.8	3509.4	3225.3
-42.5°	5221.3	5053.7	4873.4	4700.3	4524.5	4342.8	4138.7	3873.8	3580.9	3289.1	2994.0
-45°	4938.6	4770.9	4593.6	4415.2	4250.7	4074.2	3884.2	3601.8	3312.6	3034.4	2751.3
-47.5°	4620.5	4458.0	4286.9	4110.0	3953.6	3776.3	3544.9	3282.1	3026.2	2761.5	2471.7
-50°	4275.1	4120.4	3962.2	3798.1	3622.3	3422.4	3200.3	2971.1	2717.6	2445.9	2181.1
-52.5°	3897.5	3755.9	3606.6	3448.8	3267.4	3069.0	2861.0	2617.5	2364.6	2134.0	1893.3
-55°	3503.5	3363.7	3216.1	3058.5	2889.3	2693.0	2477.5	2256.1	2049.6	1836.4	1652.7
-57.5°	3067.5	2935.0	2794.4	2645.6	2489.4	2306.8	2117.8	1929.9	1766.4	1600.7	1434.0
-60°	2601.5	2477.8	2358.2	2226.3	2082.1	1924.9	1787.1	1648.5	1509.8	1377.5	1243.2
-62.5°	2150.2	2046.7	1939.2	1832.2	1722.5	1609.1	1494.9	1387.9	1278.5	1166.3	1067.5
-65°	1723.6	1644.9	1560.2	1486.1	1408.3	1326.3	1234.5	1150.5	1071.0	988.9	904.8
-67.5°	1365.6	1309.4	1249.5	1191.0	1137.7	1081.0	1016.5	948.6	885.6	824.8	762.9
-70°	1071.3	1034.1	995.2	952.5	910.0	867.2	819.7	769.8	719.2	673.6	630.0
-72.5°	822.3	796.6	767.0	736.3	703.5	674.4	642.0	608.3	574.0	539.4	506.5
-75°	636.2	617.6	597.3	574.4	546.6	513.8	489.4	473.0	452.3	427.2	399.7
-77.5°	503.1	489.6	475.1	455.5	435.3	414.4	393.7	373.3	353.2	334.1	316.7
-80°	370.2	363.8	355.8	339.6	323.3	307.2	291.8	279.3	267.5	254.6	238.7
-82.5°	217.4	216.6	214.3	205.2	196.1	187.1	178.4	169.6	160.3	150.6	140.8
-85°	70.2	74.0	77.2	78.7	79.6	79.8	79.4	77.1	74.4	71.3	68.0
-87.5°	15.3	15.4	15.4	16.0	16.6	17.1	17.5	18.3	19.0	19.6	20.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P645503 (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	0.7
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.3	1.4	1.5
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	2.1	2.2
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	2.1	2.5
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.8	2.2	2.5
75°	1.4	1.4	1.4	1.5	1.5	1.4	1.4	1.5	1.8	2.2	2.5
72.5°	1.4	1.4	1.4	1.6	1.8	1.8	1.6	1.5	1.9	2.2	2.6
70°	1.6	1.5	1.4	1.6	2.0	2.3	2.2	2.2	1.9	2.3	2.6
67.5°	2.1	2.1	1.9	1.9	2.0	2.4	2.7	3.2	3.1	2.3	2.6
65°	2.1	2.5	2.9	4.0	3.5	2.4	2.8	5.5	4.4	3.7	2.7
62.5°	4.6	2.6	8.9	12.0	6.8	5.3	4.2	12.3	7.7	5.2	3.8
60°	11.1	9.1	25.0	40.1	28.0	9.4	13.8	21.4	19.7	6.8	5.3
57.5°	104.2	35.8	51.9	75.0	73.7	40.0	29.2	38.9	33.5	19.3	7.5
55°	222.4	187.1	123.5	113.1	122.2	98.7	64.2	63.0	51.7	35.8	12.2
52.5°	305.1	318.4	277.1	193.6	168.6	160.6	125.5	91.4	81.1	53.7	31.1
50°	441.6	411.3	407.1	341.8	236.4	214.0	185.2	142.8	113.9	76.9	52.5
47.5°	623.9	548.0	507.8	478.5	377.2	272.8	243.0	195.3	150.0	110.8	75.0
45°	891.6	708.4	630.6	583.0	516.9	383.6	304.0	246.3	195.5	148.8	98.6
42.5°	1160.4	915.9	770.7	693.8	625.1	508.8	369.4	305.1	239.8	187.4	128.4
40°	1397.7	1129.9	918.1	819.1	731.3	629.7	475.2	368.0	283.3	227.2	162.4
37.5°	1683.3	1373.5	1087.7	950.5	844.5	730.7	582.5	433.7	335.5	268.9	196.4
35°	1959.7	1688.9	1277.4	1109.2	970.5	834.3	685.9	511.4	399.6	311.3	230.4
32.5°	2256.4	1985.5	1563.9	1286.4	1101.0	940.1	782.6	605.8	464.1	354.2	264.3
30°	2490.0	2180.7	1815.3	1463.9	1242.9	1058.2	879.1	696.4	528.8	397.4	298.6
27.5°	2613.9	2349.7	2013.7	1661.5	1402.7	1179.3	978.5	783.0	593.4	445.0	334.2
25°	2742.0	2468.7	2155.6	1834.3	1560.4	1307.5	1077.5	865.6	663.9	498.7	369.4
22.5°	2895.2	2569.9	2275.2	1971.3	1723.1	1437.4	1181.3	949.2	734.4	551.2	404.1
20°	3049.0	2663.9	2393.2	2157.7	1882.7	1578.0	1289.8	1030.7	800.9	602.5	438.1
17.5°	3210.4	2834.5	2593.6	2339.5	2041.8	1714.3	1396.8	1109.7	863.3	652.1	471.0
15°	3491.5	3090.0	2795.4	2516.5	2200.1	1845.3	1501.2	1185.6	921.5	699.7	501.7
12.5°	3746.7	3327.8	2997.4	2687.6	2355.8	1970.3	1601.9	1257.8	975.4	737.7	529.0
10°	3957.8	3548.3	3197.1	2851.9	2506.9	2088.3	1697.8	1316.6	1007.8	766.1	554.2
7.5°	4130.7	3752.2	3391.7	3008.2	2636.8	2165.4	1746.2	1350.9	1032.8	790.2	577.1
5°	4255.7	3888.2	3495.2	3062.7	2677.3	2197.0	1779.1	1378.8	1053.0	810.3	597.8
2.5°	4291.7	3930.0	3534.0	3092.5	2704.8	2217.6	1802.6	1400.1	1068.6	826.7	616.1
0°	4312.6	3957.5	3558.3	3110.9	2718.8	2227.3	1816.8	1414.8	1079.6	839.5	632.1
-2.5°	4341.8	3981.2	3581.8	3158.0	2728.1	2257.1	1824.8	1424.4	1093.5	844.1	641.4
-5°	4356.5	3990.4	3593.1	3189.7	2725.7	2274.9	1823.8	1427.4	1102.6	845.7	648.2
-7.5°	4350.0	3987.3	3593.6	3199.6	2713.4	2279.0	1813.9	1424.2	1106.2	844.5	652.5
-10°	4330.4	3971.1	3579.8	3173.9	2702.0	2262.9	1796.3	1415.2	1104.1	840.9	654.1
-12.5°	4300.6	3940.9	3551.7	3137.0	2678.3	2229.7	1775.5	1399.6	1095.2	835.1	653.0
-15°	4261.9	3897.0	3509.1	3090.0	2639.4	2185.5	1744.2	1377.1	1077.8	828.5	649.2
-17.5°	4212.3	3839.7	3451.7	3034.3	2584.6	2130.8	1702.2	1347.8	1056.1	820.4	641.4
-20°	4123.6	3762.6	3378.7	2971.0	2513.5	2065.9	1649.3	1311.6	1030.2	809.0	630.2



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4024.0	3667.3	3287.8	2885.5	2427.9	1991.4	1585.4	1268.7	1000.4	794.0	616.8
-25°	3917.7	3560.0	3182.1	2767.2	2333.2	1912.6	1521.3	1219.0	966.8	775.6	601.2
-27.5°	3793.0	3438.5	3062.3	2637.0	2223.3	1821.1	1459.9	1174.9	934.3	753.6	583.5
-30°	3652.7	3295.6	2912.6	2498.0	2102.9	1715.4	1391.0	1127.9	906.8	729.5	563.8
-32.5°	3492.0	3138.1	2746.7	2355.7	1975.6	1603.2	1315.0	1077.5	875.1	704.0	545.5
-35°	3309.0	2954.9	2570.9	2203.0	1840.8	1512.5	1240.7	1024.2	839.1	676.5	526.3
-37.5°	3118.4	2758.3	2395.1	2043.5	1697.5	1414.4	1173.9	971.4	798.8	646.9	505.0
-40°	2900.8	2556.0	2210.6	1879.2	1573.3	1309.0	1101.5	919.4	760.8	615.5	481.8
-42.5°	2676.6	2343.8	2018.1	1705.3	1450.9	1223.2	1025.8	863.3	720.7	585.1	456.6
-45°	2434.9	2119.7	1813.4	1558.7	1326.3	1132.4	959.4	805.2	677.9	554.0	430.5
-47.5°	2179.9	1883.5	1627.4	1406.0	1220.4	1041.1	888.9	755.0	633.0	520.7	404.4
-50°	1909.8	1663.6	1456.0	1273.4	1106.3	958.9	818.6	702.4	591.8	483.9	377.1
-52.5°	1670.4	1473.2	1301.5	1145.1	1005.6	872.4	758.0	648.4	549.3	448.7	348.5
-55°	1465.3	1303.7	1158.8	1028.6	905.8	798.3	695.2	600.5	505.7	413.4	319.5
-57.5°	1288.3	1147.0	1031.0	917.9	816.5	724.9	637.9	551.5	463.9	376.8	296.6
-60°	1118.1	1012.6	909.4	818.5	732.7	654.9	583.9	502.6	421.7	340.3	271.2
-62.5°	971.2	881.1	803.1	723.9	652.6	589.2	529.4	454.7	378.3	306.5	243.6
-65°	833.4	764.3	697.8	634.6	575.5	521.7	473.4	405.6	334.8	270.6	214.9
-67.5°	702.6	650.5	598.4	545.3	498.8	455.3	413.9	352.7	289.3	232.9	186.4
-70°	585.8	541.3	500.4	461.0	423.2	387.0	348.0	296.2	241.8	199.1	157.3
-72.5°	475.5	442.9	409.0	376.6	348.7	316.8	280.9	240.6	202.4	164.7	127.5
-75°	373.4	351.9	328.0	302.3	276.2	247.8	224.0	195.8	162.5	129.6	102.8
-77.5°	298.7	277.8	253.9	233.4	215.9	196.4	174.9	150.4	124.0	100.8	79.4
-80°	220.4	204.4	190.8	179.0	162.9	145.1	127.2	109.4	90.1	72.2	55.7
-82.5°	134.4	130.9	127.2	121.7	108.3	95.1	82.1	69.4	55.8	43.1	35.7
-85°	67.2	65.9	63.9	61.0	52.8	44.7	40.9	37.1	32.5	28.1	23.9
-87.5°	22.1	23.8	25.1	26.1	24.2	22.4	20.5	18.6	16.3	14.1	12.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.6	0.5	0.4	0.2	0.2	0.0
85°	1.4	1.2	1.0	0.7	0.5	0.3	0.0
82.5°	2.2	1.8	1.5	1.1	0.7	0.5	0.0
80°	2.8	2.4	1.9	1.5	1.0	0.6	0.0
77.5°	2.8	2.8	2.4	1.8	1.2	0.8	0.0
75°	2.8	2.9	2.8	2.2	1.5	0.9	0.0
72.5°	2.9	3.0	3.0	2.5	1.7	1.1	0.0
70°	3.0	3.1	3.1	2.8	2.0	1.2	0.0
67.5°	3.3	3.3	3.3	3.0	2.2	1.4	0.0
65°	3.8	3.8	3.4	3.1	2.5	1.5	0.0
62.5°	4.4	4.7	3.6	3.3	2.7	1.7	0.0
60°	5.2	5.7	3.7	3.4	3.0	1.8	0.0
57.5°	9.7	6.8	4.8	3.6	3.2	2.0	0.0
55°	15.5	8.0	6.0	3.8	3.3	2.1	0.0
52.5°	22.2	10.3	7.3	3.9	3.5	2.3	0.0
50°	29.9	17.6	8.5	4.1	3.7	2.4	0.0
47.5°	40.3	25.5	9.9	4.5	3.8	2.5	0.0
45°	60.8	33.9	11.3	5.5	4.0	2.7	0.0
42.5°	81.8	42.8	12.8	6.6	4.2	2.8	0.0
40°	103.2	52.3	17.2	8.0	4.4	2.9	0.0
37.5°	125.1	62.2	24.6	9.7	4.6	3.0	0.0
35°	147.3	77.3	32.1	11.6	4.7	3.2	0.0
32.5°	171.4	94.8	39.8	13.7	4.9	3.3	0.0
30°	198.9	112.2	47.4	15.9	5.1	3.4	0.0
27.5°	225.9	129.4	56.9	18.3	5.3	3.5	0.0
25°	252.3	146.3	66.6	20.8	5.5	3.6	0.0
22.5°	277.8	163.5	76.3	23.5	5.7	3.7	0.0
20°	302.5	182.0	85.9	26.2	5.9	3.8	0.0
17.5°	327.0	199.9	95.4	29.0	6.0	3.9	0.0
15°	350.5	217.1	104.6	31.7	6.2	4.0	0.0
12.5°	372.5	233.5	113.5	34.5	6.4	4.0	0.0
10°	392.9	249.0	122.0	37.2	6.5	4.1	0.0
7.5°	411.6	263.5	130.1	39.9	6.7	4.2	0.0
5°	428.6	276.8	137.6	42.4	6.8	4.2	0.0
2.5°	443.9	288.9	144.4	44.7	7.0	4.3	0.0
0°	457.4	299.7	150.6	46.9	7.1	4.3	0.0
-2.5°	464.1	306.5	156.3	50.0	8.2	4.5	0.0
-5°	469.0	311.9	161.2	52.8	9.3	4.8	0.0
-7.5°	472.1	315.8	165.2	55.3	10.4	5.0	0.0
-10°	473.5	318.3	168.2	57.5	11.4	5.2	0.0
-12.5°	473.3	319.3	170.2	59.3	12.4	5.4	0.0
-15°	471.4	318.9	171.2	60.8	13.3	5.6	0.0
-17.5°	468.0	317.0	171.1	61.8	14.2	5.7	0.0
-20°	462.6	313.6	169.8	62.4	14.9	5.9	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	454.9	308.8	167.4	62.6	15.7	6.0	0.0
-25°	445.4	301.4	163.9	62.3	16.3	6.1	0.0
-27.5°	434.0	292.1	159.1	61.6	16.8	6.1	0.0
-30°	420.9	281.6	153.1	60.3	17.2	6.2	0.0
-32.5°	406.1	269.8	146.2	58.5	17.6	6.2	0.0
-35°	390.0	256.8	138.4	56.2	17.8	6.2	0.0
-37.5°	372.8	243.8	129.9	53.4	17.9	6.1	0.0
-40°	354.2	231.9	120.6	50.1	18.0	6.1	0.0
-42.5°	334.3	219.2	113.6	46.5	17.9	6.0	0.0
-45°	313.2	205.8	108.8	42.9	17.6	5.9	0.0
-47.5°	290.8	191.5	103.1	38.7	17.3	5.7	0.0
-50°	272.1	176.5	96.6	37.3	16.9	5.5	0.0
-52.5°	253.5	160.7	89.2	36.6	16.3	5.3	0.0
-55°	234.1	148.8	81.1	35.4	15.7	5.1	0.0
-57.5°	213.9	136.7	72.1	33.9	14.9	4.9	0.0
-60°	193.5	123.5	62.7	32.0	14.1	4.6	0.0
-62.5°	174.8	109.2	58.3	29.7	13.2	4.3	0.0
-65°	154.8	94.0	53.2	27.1	12.3	4.0	0.0
-67.5°	133.6	81.3	47.5	24.2	11.3	3.6	0.0
-70°	111.1	71.1	41.3	21.0	10.2	3.3	0.0
-72.5°	94.0	60.2	34.7	18.5	9.1	2.9	0.0
-75°	76.9	48.6	27.6	16.0	7.9	2.5	0.0
-77.5°	58.9	36.5	22.8	13.5	6.6	2.1	0.0
-80°	40.2	27.8	18.4	10.9	5.4	1.7	0.0
-82.5°	29.5	21.0	13.9	8.3	4.0	1.3	0.0
-85°	19.8	14.1	9.3	5.5	2.7	0.9	0.0
-87.5°	9.9	7.1	4.7	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)