

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: HALO

Report Number: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLM40FSUNVDBZK-25W-4000K

Issue Date: 4/3/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( )  
Test Lab: INNOVATION CENTER  
Issue Date: 4/3/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: GFLM40FSUNVDBZK-25W-4000K  
Description: SLIM LED FLOODLIGHT  
Light Source: 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

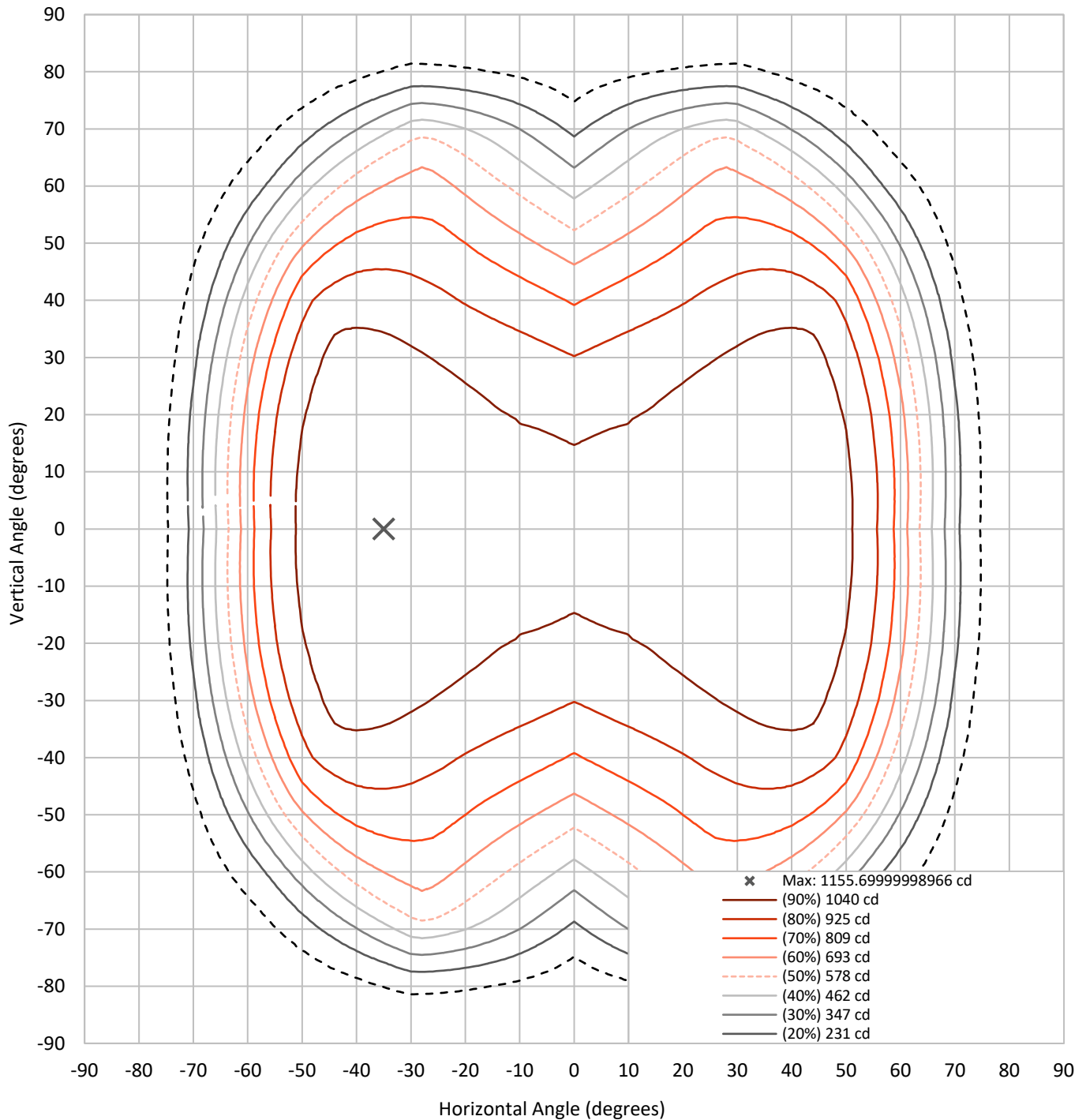
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	3975.4 lumens	Max Intensity:	1155.7 candela
Efficiency:	N/A	Max Intensity Angle:	-35°H x 0°V
Efficacy:	157.1 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.23' x L: 0.42' x H: 0.15')		
Beam Angle (50%):	127°H x 130.8°V	Field Angle (10%):	149.3°H x 160.3°V
Beam Lumens:	3450.5 lumens	Field Lumens:	3927 lumens
Beam Efficiency:	86.8%	Field Efficiency:	98.8%
Input Watts (W):	25.3		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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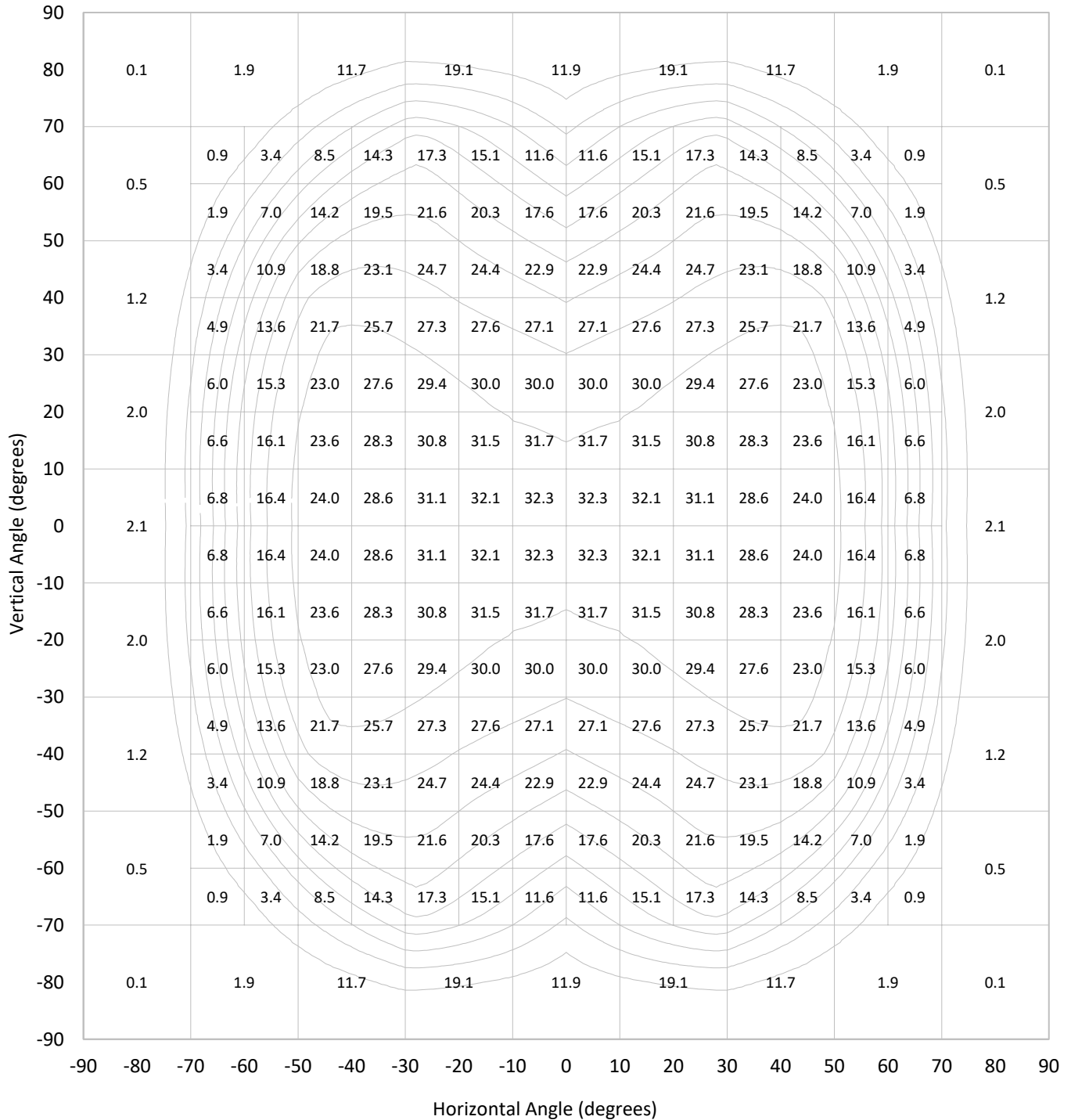
### Iso-Candela Plot





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### Lumen Table



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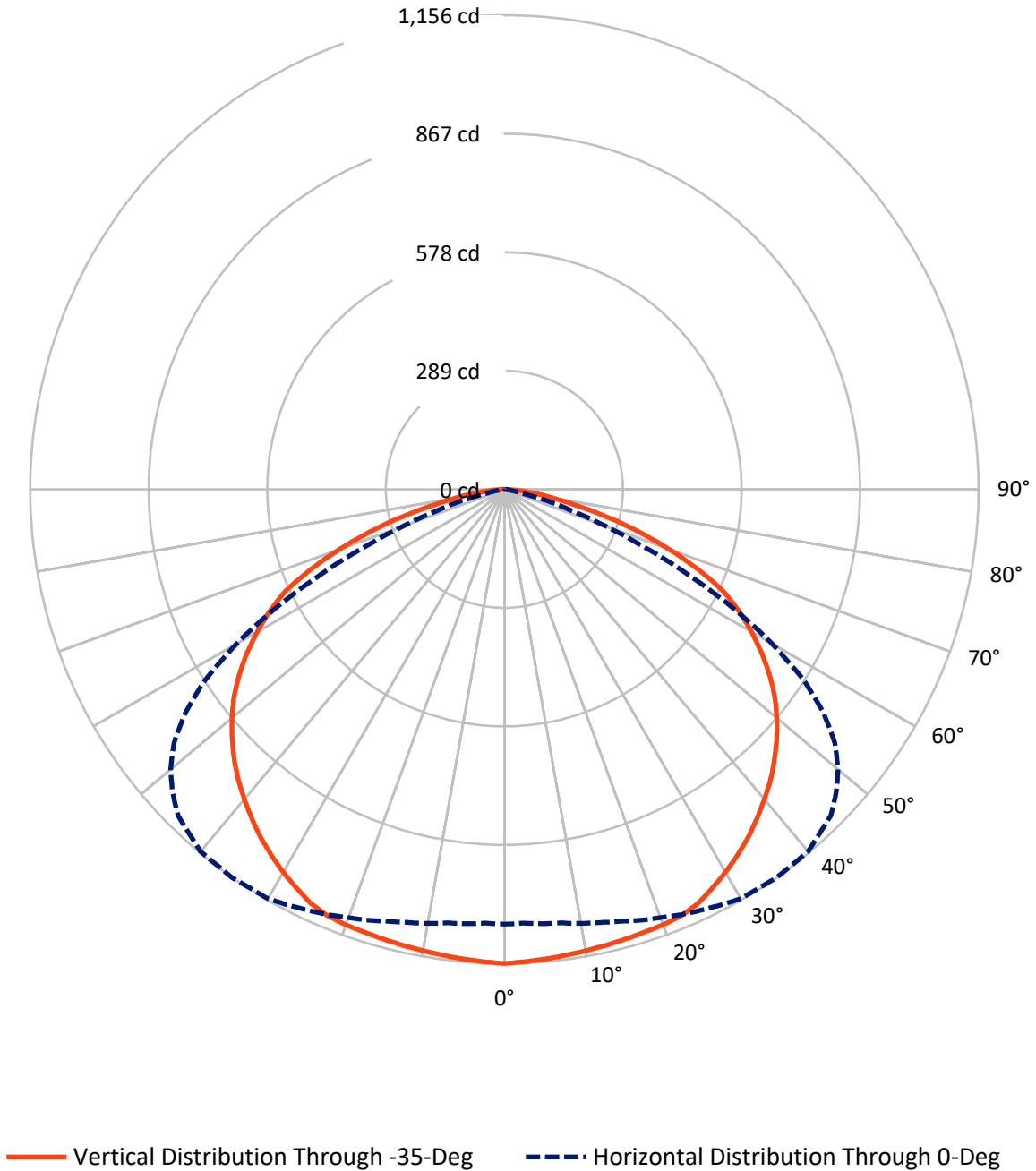
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Scaled Data Report



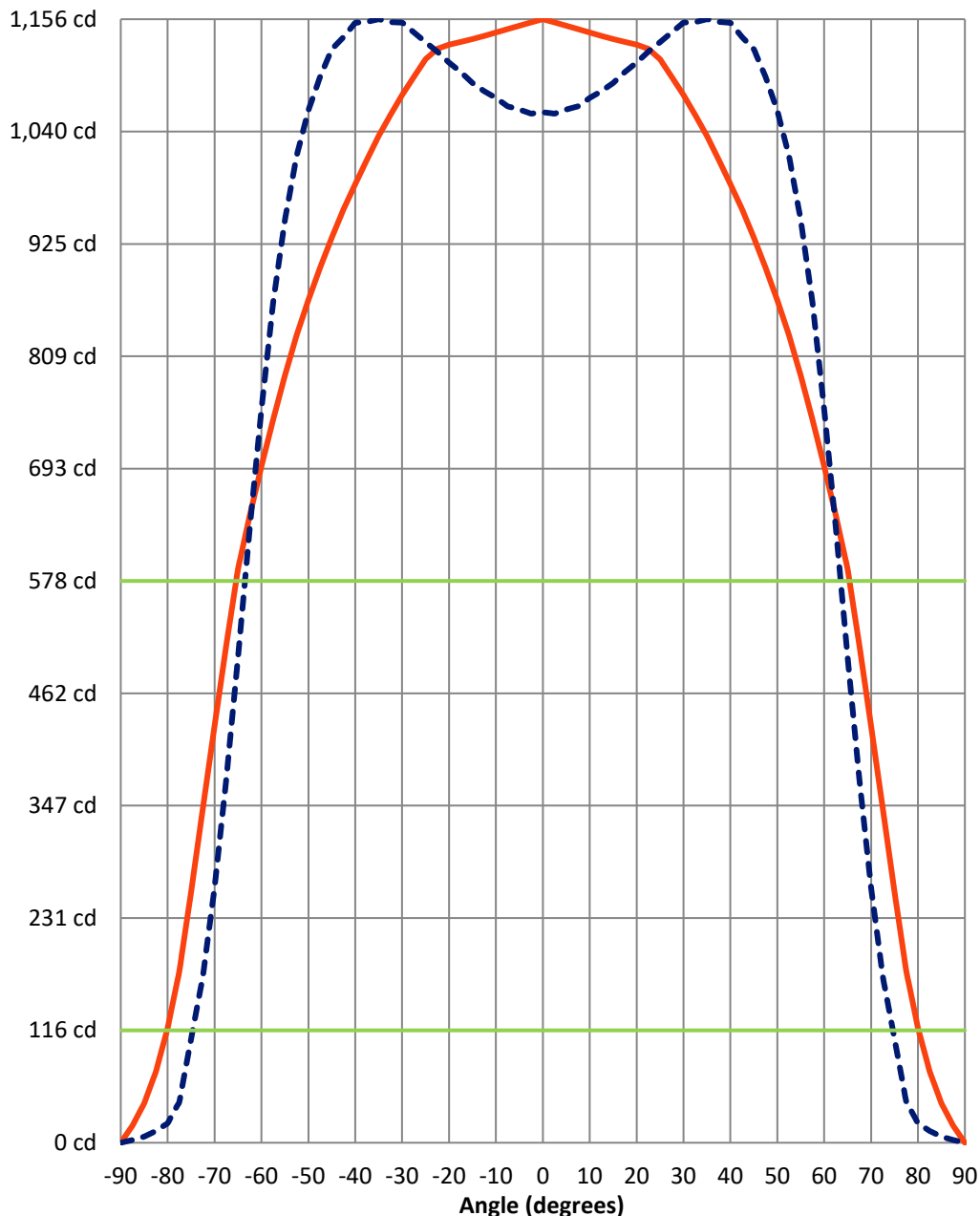
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CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 127°  
 V Angle: 130.8°  
 Lumens: 3450.5  
 Efficiency: 86.8%

**Field:**  
 H Angle: 149.3°  
 V Angle: 160.3°  
 Lumens: 3927  
 Efficiency: 98.8%

**Spill:**  
 Lumens: 48.4  
 Efficiency: 1.2%

— Vertical Distribution through -35-Deg  
 - - - Horizontal Distribution through 0-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	0.7	1.1	1.6	2.2	2.9	3.6	4.4	5.2
85°	0.0	0.3	0.8	1.5	2.3	3.3	4.4	5.7	7.2	8.7	10.4
82.5°	0.0	0.5	1.2	2.2	3.4	4.9	6.5	8.5	10.6	12.5	14.6
80°	0.0	0.7	1.6	2.9	4.5	6.5	8.6	10.8	13.1	15.4	18.0
77.5°	0.0	0.8	2.0	3.6	5.6	7.9	10.2	12.8	15.5	18.3	21.5
75°	0.0	1.0	2.4	4.3	6.6	9.1	11.8	14.7	17.9	21.4	25.1
72.5°	0.0	1.1	2.8	5.0	7.5	10.3	13.3	16.7	20.5	24.5	28.6
70°	0.0	1.3	3.1	5.6	8.3	11.4	14.8	18.8	23.1	27.6	37.1
67.5°	0.0	1.4	3.5	6.2	9.1	12.5	16.5	20.9	25.7	35.5	46.5
65°	0.0	1.6	3.8	6.7	9.9	13.6	18.2	22.9	32.0	43.1	58.3
62.5°	0.0	1.7	4.1	7.2	10.6	14.9	19.8	27.0	38.0	52.0	76.1
60°	0.0	1.8	4.5	7.7	11.3	16.2	21.3	31.7	43.7	66.6	93.0
57.5°	0.0	2.0	4.7	8.1	12.2	17.3	24.6	36.1	54.2	80.4	114.8
55°	0.0	2.1	5.0	8.6	13.1	18.4	27.9	40.2	65.3	95.3	138.4
52.5°	0.0	2.2	5.3	8.9	13.9	19.7	31.0	48.4	75.7	115.7	161.2
50°	0.0	2.3	5.5	9.3	14.7	22.0	33.9	56.7	87.6	135.3	190.7
47.5°	0.0	2.4	5.7	9.7	15.4	24.0	37.0	64.3	104.2	154.0	219.4
45°	0.0	2.5	5.9	10.2	16.0	25.9	42.9	71.2	119.9	177.6	246.1
42.5°	0.0	2.6	6.1	10.6	16.6	27.6	48.2	81.4	134.8	199.6	276.9
40°	0.0	2.6	6.3	11.0	17.5	29.1	53.1	93.6	150.1	219.9	306.4
37.5°	0.0	2.7	6.4	11.4	18.6	30.4	57.5	105.1	166.6	240.1	333.5
35°	0.0	2.8	6.5	11.7	19.5	32.9	61.3	115.7	181.6	262.5	359.8
32.5°	0.0	2.8	6.6	12.0	20.3	35.9	66.1	125.5	195.1	282.8	386.0
30°	0.0	2.9	6.7	12.3	21.0	38.5	73.8	134.8	207.1	300.9	409.6
27.5°	0.0	2.9	6.8	12.5	21.6	40.7	80.7	144.4	219.1	316.9	430.5
25°	0.0	2.9	6.8	12.6	22.0	42.5	86.9	152.8	231.9	332.7	448.9
22.5°	0.0	2.9	6.9	12.8	22.3	43.9	92.4	159.8	242.8	347.2	465.6
20°	0.0	3.0	6.9	12.8	22.4	45.0	97.1	165.6	252.0	359.3	479.8
17.5°	0.0	3.0	6.9	12.9	22.5	45.7	101.0	170.2	259.3	369.1	491.5
15°	0.0	3.0	6.8	12.9	22.4	46.1	104.1	173.6	264.8	376.5	500.4
12.5°	0.0	2.9	6.8	12.8	22.3	46.2	106.5	175.8	268.6	381.6	506.8
10°	0.0	2.9	6.7	12.8	22.0	45.9	108.1	177.0	270.6	384.5	510.5
7.5°	0.0	2.9	6.6	12.7	21.6	45.4	108.9	177.0	270.9	385.1	511.5
5°	0.0	2.9	6.5	12.5	21.2	44.6	108.9	175.9	269.6	383.5	510.0
2.5°	0.0	2.8	6.4	12.3	20.7	43.5	108.2	173.9	266.7	379.8	505.8
0°	0.0	2.8	6.3	12.1	20.1	42.2	106.7	170.9	262.3	373.9	499.1
-2.5°	0.0	2.8	6.4	12.3	20.7	43.5	108.2	173.9	266.7	379.8	505.8
-5°	0.0	2.9	6.5	12.5	21.2	44.6	108.9	175.9	269.6	383.5	510.0
-7.5°	0.0	2.9	6.6	12.7	21.6	45.4	108.9	177.0	270.9	385.1	511.5
-10°	0.0	2.9	6.7	12.8	22.0	45.9	108.1	177.0	270.6	384.5	510.5
-12.5°	0.0	2.9	6.8	12.8	22.3	46.2	106.5	175.8	268.6	381.6	506.8
-15°	0.0	3.0	6.8	12.9	22.4	46.1	104.1	173.6	264.8	376.5	500.4
-17.5°	0.0	3.0	6.9	12.9	22.5	45.7	101.0	170.2	259.3	369.1	491.5
-20°	0.0	3.0	6.9	12.8	22.4	45.0	97.1	165.6	252.0	359.3	479.8

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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	2.9	6.9	12.8	22.3	43.9	92.4	159.8	242.8	347.2	465.6
-25°	0.0	2.9	6.8	12.6	22.0	42.5	86.9	152.8	231.9	332.7	448.9
-27.5°	0.0	2.9	6.8	12.5	21.6	40.7	80.7	144.4	219.1	316.9	430.5
-30°	0.0	2.9	6.7	12.3	21.0	38.5	73.8	134.8	207.1	300.9	409.6
-32.5°	0.0	2.8	6.6	12.0	20.3	35.9	66.1	125.5	195.1	282.8	386.0
-35°	0.0	2.8	6.5	11.7	19.5	32.9	61.3	115.7	181.6	262.5	359.8
-37.5°	0.0	2.7	6.4	11.4	18.6	30.4	57.5	105.1	166.6	240.1	333.5
-40°	0.0	2.6	6.3	11.0	17.5	29.1	53.1	93.6	150.1	219.9	306.4
-42.5°	0.0	2.6	6.1	10.6	16.6	27.6	48.2	81.4	134.8	199.6	276.9
-45°	0.0	2.5	5.9	10.2	16.0	25.9	42.9	71.2	119.9	177.6	246.1
-47.5°	0.0	2.4	5.7	9.7	15.4	24.0	37.0	64.3	104.2	154.0	219.4
-50°	0.0	2.3	5.5	9.3	14.7	22.0	33.9	56.7	87.6	135.3	190.7
-52.5°	0.0	2.2	5.3	8.9	13.9	19.7	31.0	48.4	75.7	115.7	161.2
-55°	0.0	2.1	5.0	8.6	13.1	18.4	27.9	40.2	65.3	95.3	138.4
-57.5°	0.0	2.0	4.7	8.1	12.2	17.3	24.6	36.1	54.2	80.4	114.8
-60°	0.0	1.8	4.5	7.7	11.3	16.2	21.3	31.7	43.7	66.6	93.0
-62.5°	0.0	1.7	4.1	7.2	10.6	14.9	19.8	27.0	38.0	52.0	76.1
-65°	0.0	1.6	3.8	6.7	9.9	13.6	18.2	22.9	32.0	43.1	58.3
-67.5°	0.0	1.4	3.5	6.2	9.1	12.5	16.5	20.9	25.7	35.5	46.5
-70°	0.0	1.3	3.1	5.6	8.3	11.4	14.8	18.8	23.1	27.6	37.1
-72.5°	0.0	1.1	2.8	5.0	7.5	10.3	13.3	16.7	20.5	24.5	28.6
-75°	0.0	1.0	2.4	4.3	6.6	9.1	11.8	14.7	17.9	21.4	25.1
-77.5°	0.0	0.8	2.0	3.6	5.6	7.9	10.2	12.8	15.5	18.3	21.5
-80°	0.0	0.7	1.6	2.9	4.5	6.5	8.6	10.8	13.1	15.4	18.0
-82.5°	0.0	0.5	1.2	2.2	3.4	4.9	6.5	8.5	10.6	12.5	14.6
-85°	0.0	0.3	0.8	1.5	2.3	3.3	4.4	5.7	7.2	8.7	10.4
-87.5°	0.0	0.2	0.4	0.7	1.1	1.6	2.2	2.9	3.6	4.4	5.2
-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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 CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

**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°	6.1	7.1	8.1	9.0	10.0	11.0	12.1	13.1	14.2	15.4	16.5
85°	12.2	14.2	15.8	17.6	19.8	22.2	24.8	27.5	30.5	33.8	37.1
82.5°	16.7	18.9	21.9	25.3	29.1	33.3	38.1	44.0	50.6	57.7	65.3
80°	20.7	23.5	28.0	33.8	40.6	48.4	57.1	66.6	77.0	89.3	103.4
77.5°	24.9	28.3	34.5	42.9	53.1	67.4	82.8	99.3	116.7	135.0	154.1
75°	29.0	32.9	44.3	59.4	76.1	94.2	114.6	141.3	169.1	197.9	227.5
72.5°	36.3	45.9	59.5	77.9	104.4	133.5	164.3	196.5	231.5	268.3	305.7
70°	47.6	58.9	80.4	110.2	142.2	177.3	216.4	256.9	298.5	341.7	385.7
67.5°	60.3	82.4	107.7	142.8	183.6	226.2	270.5	321.2	370.8	419.3	466.5
65°	81.6	106.6	137.2	180.4	225.7	281.2	336.7	391.0	445.7	497.9	547.1
62.5°	102.0	135.9	171.3	221.2	282.5	342.7	404.9	465.3	522.5	569.8	610.3
60°	128.4	166.5	213.2	274.1	340.5	410.1	476.3	535.8	587.6	632.3	667.3
57.5°	155.4	203.9	262.6	329.1	405.3	477.9	544.1	602.7	650.8	690.7	722.1
55°	185.8	246.5	313.6	389.7	470.0	545.4	611.5	666.5	713.1	746.1	772.1
52.5°	222.1	288.8	368.0	451.1	536.7	612.3	676.5	728.7	768.4	798.6	817.4
50°	256.2	335.8	420.6	512.7	602.5	677.7	738.2	786.2	820.3	844.4	859.3
47.5°	294.3	380.2	474.4	570.6	664.2	738.9	796.8	837.1	868.0	885.7	897.7
45°	332.1	425.4	525.3	623.8	718.0	797.0	847.1	885.7	908.6	924.5	930.0
42.5°	367.4	469.1	572.1	674.3	764.7	844.3	895.6	926.1	947.3	957.1	960.9
40°	404.0	509.9	616.1	715.9	806.8	880.5	936.4	965.6	980.3	987.8	990.4
37.5°	438.4	547.6	656.1	755.7	839.7	911.1	969.5	998.0	1010.9	1017.3	1015.7
35°	470.0	582.5	690.7	788.9	871.7	937.6	988.9	1027.9	1039.8	1042.3	1040.6
32.5°	499.1	614.7	723.1	817.0	896.4	961.1	1007.8	1042.5	1065.4	1067.2	1064.2
30°	525.8	642.2	751.6	843.8	919.8	978.3	1022.8	1056.3	1079.3	1089.9	1085.7
27.5°	549.9	667.3	774.0	865.2	940.8	995.4	1036.5	1066.4	1088.1	1103.7	1106.0
25°	571.2	689.9	794.8	884.2	955.3	1008.6	1048.9	1076.7	1096.4	1109.8	1117.2
22.5°	589.4	710.1	813.8	902.0	969.2	1020.2	1057.7	1084.4	1103.7	1116.4	1121.5
20°	604.8	724.5	828.8	917.3	982.2	1031.3	1066.3	1091.7	1109.8	1120.3	1125.9
17.5°	617.6	736.8	840.8	926.9	991.3	1040.0	1074.2	1098.8	1116.1	1124.4	1130.7
15°	628.0	746.9	851.0	935.2	998.8	1046.1	1079.6	1104.0	1120.8	1128.6	1135.8
12.5°	635.6	754.8	859.2	942.2	1005.2	1051.4	1084.5	1108.9	1124.2	1132.9	1138.6
10°	640.5	760.1	865.3	947.6	1010.4	1055.9	1088.7	1113.4	1127.4	1137.3	1141.5
7.5°	642.7	762.9	869.1	951.1	1014.2	1059.4	1092.2	1117.5	1130.5	1141.5	1144.4
5°	641.9	762.9	870.3	952.7	1016.3	1061.6	1094.7	1120.8	1133.2	1145.5	1147.2
2.5°	638.2	760.1	868.8	952.0	1016.6	1062.4	1096.2	1123.3	1135.5	1149.0	1150.1
0°	631.6	754.2	864.4	949.0	1014.9	1061.7	1096.3	1124.8	1137.3	1152.0	1153.0
-2.5°	638.2	760.1	868.8	952.0	1016.6	1062.4	1096.2	1123.3	1135.5	1149.0	1150.1
-5°	641.9	762.9	870.3	952.7	1016.3	1061.6	1094.7	1120.8	1133.2	1145.5	1147.2
-7.5°	642.7	762.9	869.1	951.1	1014.2	1059.4	1092.2	1117.5	1130.5	1141.5	1144.4
-10°	640.5	760.1	865.3	947.6	1010.4	1055.9	1088.7	1113.4	1127.4	1137.3	1141.5
-12.5°	635.6	754.8	859.2	942.2	1005.2	1051.4	1084.5	1108.9	1124.2	1132.9	1138.6
-15°	628.0	746.9	851.0	935.2	998.8	1046.1	1079.6	1104.0	1120.8	1128.6	1135.8
-17.5°	617.6	736.8	840.8	926.9	991.3	1040.0	1074.2	1098.8	1116.1	1124.4	1130.7
-20°	604.8	724.5	828.8	917.3	982.2	1031.3	1066.3	1091.7	1109.8	1120.3	1125.9

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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°	589.4	710.1	813.8	902.0	969.2	1020.2	1057.7	1084.4	1103.7	1116.4	1121.5
-25°	571.2	689.9	794.8	884.2	955.3	1008.6	1048.9	1076.7	1096.4	1109.8	1117.2
-27.5°	549.9	667.3	774.0	865.2	940.8	995.4	1036.5	1066.4	1088.1	1103.7	1106.0
-30°	525.8	642.2	751.6	843.8	919.8	978.3	1022.8	1056.3	1079.3	1089.9	1085.7
-32.5°	499.1	614.7	723.1	817.0	896.4	961.1	1007.8	1042.5	1065.4	1067.2	1064.2
-35°	470.0	582.5	690.7	788.9	871.7	937.6	988.9	1027.9	1039.8	1042.3	1040.6
-37.5°	438.4	547.6	656.1	755.7	839.7	911.1	969.5	998.0	1010.9	1017.3	1015.7
-40°	404.0	509.9	616.1	715.9	806.8	880.5	936.4	965.6	980.3	987.8	990.4
-42.5°	367.4	469.1	572.1	674.3	764.7	844.3	895.6	926.1	947.3	957.1	960.9
-45°	332.1	425.4	525.3	623.8	718.0	797.0	847.1	885.7	908.6	924.5	930.0
-47.5°	294.3	380.2	474.4	570.6	664.2	738.9	796.8	837.1	868.0	885.7	897.7
-50°	256.2	335.8	420.6	512.7	602.5	677.7	738.2	786.2	820.3	844.4	859.3
-52.5°	222.1	288.8	368.0	451.1	536.7	612.3	676.5	728.7	768.4	798.6	817.4
-55°	185.8	246.5	313.6	389.7	470.0	545.4	611.5	666.5	713.1	746.1	772.1
-57.5°	155.4	203.9	262.6	329.1	405.3	477.9	544.1	602.7	650.8	690.7	722.1
-60°	128.4	166.5	213.2	274.1	340.5	410.1	476.3	535.8	587.6	632.3	667.3
-62.5°	102.0	135.9	171.3	221.2	282.5	342.7	404.9	465.3	522.5	569.8	610.3
-65°	81.6	106.6	137.2	180.4	225.7	281.2	336.7	391.0	445.7	497.9	547.1
-67.5°	60.3	82.4	107.7	142.8	183.6	226.2	270.5	321.2	370.8	419.3	466.5
-70°	47.6	58.9	80.4	110.2	142.2	177.3	216.4	256.9	298.5	341.7	385.7
-72.5°	36.3	45.9	59.5	77.9	104.4	133.5	164.3	196.5	231.5	268.3	305.7
-75°	29.0	32.9	44.3	59.4	76.1	94.2	114.6	141.3	169.1	197.9	227.5
-77.5°	24.9	28.3	34.5	42.9	53.1	67.4	82.8	99.3	116.7	135.0	154.1
-80°	20.7	23.5	28.0	33.8	40.6	48.4	57.1	66.6	77.0	89.3	103.4
-82.5°	16.7	18.9	21.9	25.3	29.1	33.3	38.1	44.0	50.6	57.7	65.3
-85°	12.2	14.2	15.8	17.6	19.8	22.2	24.8	27.5	30.5	33.8	37.1
-87.5°	6.1	7.1	8.1	9.0	10.0	11.0	12.1	13.1	14.2	15.4	16.5
-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: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

**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°	17.6	18.7	19.8	19.5	19.0	18.5	17.9	17.2	16.4	15.6	14.8
85°	40.5	44.1	47.8	46.8	45.4	43.6	41.7	39.5	37.1	34.5	31.8
82.5°	73.2	81.6	90.3	89.1	86.3	82.8	78.6	74.0	68.7	63.1	57.0
80°	118.0	133.1	148.4	148.1	143.6	137.9	131.0	122.9	114.0	104.3	93.8
77.5°	176.6	201.0	225.7	228.9	223.3	215.5	205.6	193.8	180.3	165.3	149.0
75°	257.9	289.1	321.4	328.0	318.9	307.1	292.6	275.9	256.9	236.0	213.5
72.5°	343.7	382.0	420.2	430.8	416.6	399.5	379.7	357.5	333.0	306.5	278.1
70°	428.5	470.1	510.3	527.7	509.3	488.1	464.4	438.2	409.7	379.2	346.7
67.5°	511.7	554.5	594.6	619.6	594.0	564.4	534.0	502.6	470.4	437.2	403.1
65°	590.0	623.0	651.1	672.5	644.7	614.5	583.7	552.1	519.9	486.9	453.0
62.5°	645.0	672.4	693.5	709.6	687.6	658.1	627.9	597.1	565.9	534.0	501.4
60°	695.8	718.1	732.4	741.7	726.5	698.3	669.2	639.8	610.1	579.8	548.8
57.5°	743.9	759.7	769.2	772.9	762.9	735.9	708.3	680.2	652.0	623.5	594.4
55°	789.0	798.8	803.9	803.0	795.5	769.5	743.6	717.6	691.6	665.3	638.5
52.5°	830.6	835.1	835.1	830.9	822.7	800.8	777.0	753.4	729.6	705.6	681.1
50°	866.7	868.5	864.6	857.8	848.0	830.9	809.3	787.5	765.5	743.5	721.2
47.5°	900.0	898.7	893.0	884.7	873.7	858.5	838.1	818.5	799.5	780.3	760.5
45°	931.0	927.4	920.6	909.8	897.3	884.1	867.4	850.6	832.8	815.1	797.1
42.5°	960.1	954.1	945.2	934.8	923.3	909.6	893.5	877.4	862.2	847.0	831.3
40°	986.0	979.3	970.6	960.1	946.4	931.9	917.7	904.5	891.3	877.7	863.7
37.5°	1011.2	1004.3	994.2	981.9	969.0	955.9	942.4	930.0	918.4	906.0	893.4
35°	1035.6	1026.6	1015.7	1003.8	991.6	979.1	965.9	952.9	942.4	931.7	920.8
32.5°	1057.1	1047.6	1036.4	1025.0	1013.4	1000.4	987.3	974.0	964.4	955.2	945.4
30°	1077.8	1067.1	1056.4	1045.3	1032.6	1020.2	1007.9	995.0	984.2	976.2	968.0
27.5°	1096.3	1086.1	1075.6	1063.0	1051.1	1039.4	1026.7	1014.5	1002.6	996.0	988.6
25°	1114.5	1104.7	1092.3	1080.4	1068.9	1056.3	1044.1	1032.6	1020.9	1011.7	1005.5
22.5°	1125.2	1120.8	1108.7	1097.5	1084.4	1071.8	1059.9	1048.5	1036.6	1025.2	1020.1
20°	1129.5	1128.3	1125.1	1112.1	1098.6	1085.9	1074.6	1061.6	1049.9	1041.2	1034.7
17.5°	1132.3	1131.8	1130.3	1125.9	1111.5	1099.8	1085.8	1072.9	1064.2	1053.9	1043.8
15°	1135.3	1135.4	1132.2	1127.3	1122.2	1111.1	1095.0	1085.5	1073.9	1063.8	1057.0
12.5°	1138.5	1138.4	1134.4	1129.5	1124.5	1114.1	1106.6	1094.3	1082.1	1074.1	1065.3
10°	1142.0	1140.8	1137.0	1132.0	1124.5	1114.5	1109.0	1099.5	1090.5	1080.4	1071.9
7.5°	1145.5	1143.3	1140.1	1134.2	1124.8	1116.2	1108.0	1099.5	1092.8	1085.9	1076.9
5°	1149.0	1146.2	1143.8	1136.5	1126.2	1117.9	1108.0	1099.5	1091.2	1084.0	1077.8
2.5°	1152.4	1149.4	1147.9	1139.0	1128.6	1119.8	1108.9	1100.1	1090.1	1082.3	1075.5
0°	1155.7	1152.7	1152.2	1142.2	1132.1	1122.3	1111.1	1101.4	1090.1	1081.7	1074.7
-2.5°	1152.4	1149.4	1147.9	1139.0	1128.6	1119.8	1108.9	1100.1	1090.1	1082.3	1075.5
-5°	1149.0	1146.2	1143.8	1136.5	1126.2	1117.9	1108.0	1099.5	1091.2	1084.0	1077.8
-7.5°	1145.5	1143.3	1140.1	1134.2	1124.8	1116.2	1108.0	1099.5	1092.8	1085.9	1076.9
-10°	1142.0	1140.8	1137.0	1132.0	1124.5	1114.5	1109.0	1099.5	1090.5	1080.4	1071.9
-12.5°	1138.5	1138.4	1134.4	1129.5	1124.5	1114.1	1106.6	1094.3	1082.1	1074.1	1065.3
-15°	1135.3	1135.4	1132.2	1127.3	1122.2	1111.1	1095.0	1085.5	1073.9	1063.8	1057.0
-17.5°	1132.3	1131.8	1130.3	1125.9	1111.5	1099.8	1085.8	1072.9	1064.2	1053.9	1043.8
-20°	1129.5	1128.3	1125.1	1112.1	1098.6	1085.9	1074.6	1061.6	1049.9	1041.2	1034.7



REPORT NUMBER: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1125.2	1120.8	1108.7	1097.5	1084.4	1071.8	1059.9	1048.5	1036.6	1025.2	1020.1
-25°	1114.5	1104.7	1092.3	1080.4	1068.9	1056.3	1044.1	1032.6	1020.9	1011.7	1005.5
-27.5°	1096.3	1086.1	1075.6	1063.0	1051.1	1039.4	1026.7	1014.5	1002.6	996.0	988.6
-30°	1077.8	1067.1	1056.4	1045.3	1032.6	1020.2	1007.9	995.0	984.2	976.2	968.0
-32.5°	1057.1	1047.6	1036.4	1025.0	1013.4	1000.4	987.3	974.0	964.4	955.2	945.4
-35°	1035.6	1026.6	1015.7	1003.8	991.6	979.1	965.9	952.9	942.4	931.7	920.8
-37.5°	1011.2	1004.3	994.2	981.9	969.0	955.9	942.4	930.0	918.4	906.0	893.4
-40°	986.0	979.3	970.6	960.1	946.4	931.9	917.7	904.5	891.3	877.7	863.7
-42.5°	960.1	954.1	945.2	934.8	923.3	909.6	893.5	877.4	862.2	847.0	831.3
-45°	931.0	927.4	920.6	909.8	897.3	884.1	867.4	850.6	832.8	815.1	797.1
-47.5°	900.0	898.7	893.0	884.7	873.7	858.5	838.1	818.5	799.5	780.3	760.5
-50°	866.7	868.5	864.6	857.8	848.0	830.9	809.3	787.5	765.5	743.5	721.2
-52.5°	830.6	835.1	835.1	830.9	822.7	800.8	777.0	753.4	729.6	705.6	681.1
-55°	789.0	798.8	803.9	803.0	795.5	769.5	743.6	717.6	691.6	665.3	638.5
-57.5°	743.9	759.7	769.2	772.9	762.9	735.9	708.3	680.2	652.0	623.5	594.4
-60°	695.8	718.1	732.4	741.7	726.5	698.3	669.2	639.8	610.1	579.8	548.8
-62.5°	645.0	672.4	693.5	709.6	687.6	658.1	627.9	597.1	565.9	534.0	501.4
-65°	590.0	623.0	651.1	672.5	644.7	614.5	583.7	552.1	519.9	486.9	453.0
-67.5°	511.7	554.5	594.6	619.6	594.0	564.4	534.0	502.6	470.4	437.2	403.1
-70°	428.5	470.1	510.3	527.7	509.3	488.1	464.4	438.2	409.7	379.2	346.7
-72.5°	343.7	382.0	420.2	430.8	416.6	399.5	379.7	357.5	333.0	306.5	278.1
-75°	257.9	289.1	321.4	328.0	318.9	307.1	292.6	275.9	256.9	236.0	213.5
-77.5°	176.6	201.0	225.7	228.9	223.3	215.5	205.6	193.8	180.3	165.3	149.0
-80°	118.0	133.1	148.4	148.1	143.6	137.9	131.0	122.9	114.0	104.3	93.8
-82.5°	73.2	81.6	90.3	89.1	86.3	82.8	78.6	74.0	68.7	63.1	57.0
-85°	40.5	44.1	47.8	46.8	45.4	43.6	41.7	39.5	37.1	34.5	31.8
-87.5°	17.6	18.7	19.8	19.5	19.0	18.5	17.9	17.2	16.4	15.6	14.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

**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°	14.0	13.1	12.1	11.1	12.1	13.1	14.0	14.8	15.6	16.4	17.2
85°	29.0	26.1	23.1	20.0	23.1	26.1	29.0	31.8	34.5	37.1	39.5
82.5°	50.6	43.9	37.1	30.1	37.1	43.9	50.6	57.0	63.1	68.7	74.0
80°	82.7	71.2	59.2	47.0	59.2	71.2	82.7	93.8	104.3	114.0	122.9
77.5°	131.6	113.3	94.3	74.7	94.3	113.3	131.6	149.0	165.3	180.3	193.8
75°	189.5	164.2	138.2	111.3	138.2	164.2	189.5	213.5	236.0	256.9	275.9
72.5°	248.2	216.9	184.6	151.5	184.6	216.9	248.2	278.1	306.5	333.0	357.5
70°	312.6	276.9	240.1	202.2	240.1	276.9	312.6	346.7	379.2	409.7	438.2
67.5°	368.0	332.0	294.9	256.9	294.9	332.0	368.0	403.1	437.2	470.4	502.6
65°	418.4	382.7	346.1	308.5	346.1	382.7	418.4	453.0	486.9	519.9	552.1
62.5°	467.9	433.6	398.2	361.7	398.2	433.6	467.9	501.4	534.0	565.9	597.1
60°	516.9	484.1	450.2	415.2	450.2	484.1	516.9	548.8	579.8	610.1	639.8
57.5°	564.7	534.0	502.3	469.2	502.3	534.0	564.7	594.4	623.5	652.0	680.2
55°	611.1	582.7	553.2	522.3	553.2	582.7	611.1	638.5	665.3	691.6	717.6
52.5°	655.9	629.7	602.2	573.4	602.2	629.7	655.9	681.1	705.6	729.6	753.4
50°	698.2	674.4	649.4	622.8	649.4	674.4	698.2	721.2	743.5	765.5	787.5
47.5°	740.0	718.4	695.5	670.9	695.5	718.4	740.0	760.5	780.3	799.5	818.5
45°	778.7	759.4	738.9	716.7	738.9	759.4	778.7	797.1	815.1	832.8	850.6
42.5°	814.9	797.4	778.5	758.0	778.5	797.4	814.9	831.3	847.0	862.2	877.4
40°	848.9	833.2	816.0	797.2	816.0	833.2	848.9	863.7	877.7	891.3	904.5
37.5°	880.3	866.2	850.8	833.7	850.8	866.2	880.3	893.4	906.0	918.4	930.0
35°	909.4	897.1	883.6	868.2	883.6	897.1	909.4	920.8	931.7	942.4	952.9
32.5°	935.2	923.9	911.5	897.4	911.5	923.9	935.2	945.4	955.2	964.4	974.0
30°	959.5	950.2	939.7	927.3	939.7	950.2	959.5	968.0	976.2	984.2	995.0
27.5°	981.3	973.5	964.7	954.2	964.7	973.5	981.3	988.6	996.0	1002.6	1014.5
25°	998.8	991.4	982.9	973.1	982.9	991.4	998.8	1005.5	1011.7	1020.9	1032.6
22.5°	1015.3	1010.0	1003.5	995.3	1003.5	1010.0	1015.3	1020.1	1025.2	1036.6	1048.5
20°	1030.0	1026.0	1021.8	1016.3	1021.8	1026.0	1030.0	1034.7	1041.2	1049.9	1061.6
17.5°	1041.4	1038.3	1033.9	1027.9	1033.9	1038.3	1041.4	1043.8	1053.9	1064.2	1072.9
15°	1051.1	1047.3	1043.4	1038.5	1043.4	1047.3	1051.1	1057.0	1063.8	1073.9	1085.5
12.5°	1058.1	1055.6	1053.7	1050.5	1053.7	1055.6	1058.1	1065.3	1074.1	1082.1	1094.3
10°	1066.0	1059.8	1056.1	1052.5	1056.1	1059.8	1066.0	1071.9	1080.4	1090.5	1099.5
7.5°	1068.6	1062.9	1061.6	1061.5	1061.6	1062.9	1068.6	1076.9	1085.9	1092.8	1099.5
5°	1071.6	1066.3	1064.4	1062.0	1064.4	1066.3	1071.6	1077.8	1084.0	1091.2	1099.5
2.5°	1069.6	1065.2	1062.8	1064.2	1062.8	1065.2	1069.6	1075.5	1082.3	1090.1	1100.1
0°	1066.1	1062.8	1058.6	1060.0	1058.6	1062.8	1066.1	1074.7	1081.7	1090.1	1101.4
-2.5°	1069.6	1065.2	1062.8	1064.2	1062.8	1065.2	1069.6	1075.5	1082.3	1090.1	1100.1
-5°	1071.6	1066.3	1064.4	1062.0	1064.4	1066.3	1071.6	1077.8	1084.0	1091.2	1099.5
-7.5°	1068.6	1062.9	1061.6	1061.5	1061.6	1062.9	1068.6	1076.9	1085.9	1092.8	1099.5
-10°	1066.0	1059.8	1056.1	1052.5	1056.1	1059.8	1066.0	1071.9	1080.4	1090.5	1099.5
-12.5°	1058.1	1055.6	1053.7	1050.5	1053.7	1055.6	1058.1	1065.3	1074.1	1082.1	1094.3
-15°	1051.1	1047.3	1043.4	1038.5	1043.4	1047.3	1051.1	1057.0	1063.8	1073.9	1085.5
-17.5°	1041.4	1038.3	1033.9	1027.9	1033.9	1038.3	1041.4	1043.8	1053.9	1064.2	1072.9
-20°	1030.0	1026.0	1021.8	1016.3	1021.8	1026.0	1030.0	1034.7	1041.2	1049.9	1061.6

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

Scaled Data Report



REPORT NUMBER: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1015.3	1010.0	1003.5	995.3	1003.5	1010.0	1015.3	1020.1	1025.2	1036.6	1048.5
-25°	998.8	991.4	982.9	973.1	982.9	991.4	998.8	1005.5	1011.7	1020.9	1032.6
-27.5°	981.3	973.5	964.7	954.2	964.7	973.5	981.3	988.6	996.0	1002.6	1014.5
-30°	959.5	950.2	939.7	927.3	939.7	950.2	959.5	968.0	976.2	984.2	995.0
-32.5°	935.2	923.9	911.5	897.4	911.5	923.9	935.2	945.4	955.2	964.4	974.0
-35°	909.4	897.1	883.6	868.2	883.6	897.1	909.4	920.8	931.7	942.4	952.9
-37.5°	880.3	866.2	850.8	833.7	850.8	866.2	880.3	893.4	906.0	918.4	930.0
-40°	848.9	833.2	816.0	797.2	816.0	833.2	848.9	863.7	877.7	891.3	904.5
-42.5°	814.9	797.4	778.5	758.0	778.5	797.4	814.9	831.3	847.0	862.2	877.4
-45°	778.7	759.4	738.9	716.7	738.9	759.4	778.7	797.1	815.1	832.8	850.6
-47.5°	740.0	718.4	695.5	670.9	695.5	718.4	740.0	760.5	780.3	799.5	818.5
-50°	698.2	674.4	649.4	622.8	649.4	674.4	698.2	721.2	743.5	765.5	787.5
-52.5°	655.9	629.7	602.2	573.4	602.2	629.7	655.9	681.1	705.6	729.6	753.4
-55°	611.1	582.7	553.2	522.3	553.2	582.7	611.1	638.5	665.3	691.6	717.6
-57.5°	564.7	534.0	502.3	469.2	502.3	534.0	564.7	594.4	623.5	652.0	680.2
-60°	516.9	484.1	450.2	415.2	450.2	484.1	516.9	548.8	579.8	610.1	639.8
-62.5°	467.9	433.6	398.2	361.7	398.2	433.6	467.9	501.4	534.0	565.9	597.1
-65°	418.4	382.7	346.1	308.5	346.1	382.7	418.4	453.0	486.9	519.9	552.1
-67.5°	368.0	332.0	294.9	256.9	294.9	332.0	368.0	403.1	437.2	470.4	502.6
-70°	312.6	276.9	240.1	202.2	240.1	276.9	312.6	346.7	379.2	409.7	438.2
-72.5°	248.2	216.9	184.6	151.5	184.6	216.9	248.2	278.1	306.5	333.0	357.5
-75°	189.5	164.2	138.2	111.3	138.2	164.2	189.5	213.5	236.0	256.9	275.9
-77.5°	131.6	113.3	94.3	74.7	94.3	113.3	131.6	149.0	165.3	180.3	193.8
-80°	82.7	71.2	59.2	47.0	59.2	71.2	82.7	93.8	104.3	114.0	122.9
-82.5°	50.6	43.9	37.1	30.1	37.1	43.9	50.6	57.0	63.1	68.7	74.0
-85°	29.0	26.1	23.1	20.0	23.1	26.1	29.0	31.8	34.5	37.1	39.5
-87.5°	14.0	13.1	12.1	11.1	12.1	13.1	14.0	14.8	15.6	16.4	17.2
-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: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

**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°	17.9	18.5	19.0	19.5	19.8	18.7	17.6	16.5	15.4	14.2	13.1
85°	41.7	43.6	45.4	46.8	47.8	44.1	40.5	37.1	33.8	30.5	27.5
82.5°	78.6	82.8	86.3	89.1	90.3	81.6	73.2	65.3	57.7	50.6	44.0
80°	131.0	137.9	143.6	148.1	148.4	133.1	118.0	103.4	89.3	77.0	66.6
77.5°	205.6	215.5	223.3	228.9	225.7	201.0	176.6	154.1	135.0	116.7	99.3
75°	292.6	307.1	318.9	328.0	321.4	289.1	257.9	227.5	197.9	169.1	141.3
72.5°	379.7	399.5	416.6	430.8	420.2	382.0	343.7	305.7	268.3	231.5	196.5
70°	464.4	488.1	509.3	527.7	510.3	470.1	428.5	385.7	341.7	298.5	256.9
67.5°	534.0	564.4	594.0	619.6	594.6	554.5	511.7	466.5	419.3	370.8	321.2
65°	583.7	614.5	644.7	672.5	651.1	623.0	590.0	547.1	497.9	445.7	391.0
62.5°	627.9	658.1	687.6	709.6	693.5	672.4	645.0	610.3	569.8	522.5	465.3
60°	669.2	698.3	726.5	741.7	732.4	718.1	695.8	667.3	632.3	587.6	535.8
57.5°	708.3	735.9	762.9	772.9	769.2	759.7	743.9	722.1	690.7	650.8	602.7
55°	743.6	769.5	795.5	803.0	803.9	798.8	789.0	772.1	746.1	713.1	666.5
52.5°	777.0	800.8	822.7	830.9	835.1	835.1	830.6	817.4	798.6	768.4	728.7
50°	809.3	830.9	848.0	857.8	864.6	868.5	866.7	859.3	844.4	820.3	786.2
47.5°	838.1	858.5	873.7	884.7	893.0	898.7	900.0	897.7	885.7	868.0	837.1
45°	867.4	884.1	897.3	909.8	920.6	927.4	931.0	930.0	924.5	908.6	885.7
42.5°	893.5	909.6	923.3	934.8	945.2	954.1	960.1	960.9	957.1	947.3	926.1
40°	917.7	931.9	946.4	960.1	970.6	979.3	986.0	990.4	987.8	980.3	965.6
37.5°	942.4	955.9	969.0	981.9	994.2	1004.3	1011.2	1015.7	1017.3	1010.9	998.0
35°	965.9	979.1	991.6	1003.8	1015.7	1026.6	1035.6	1040.6	1042.3	1039.8	1027.9
32.5°	987.3	1000.4	1013.4	1025.0	1036.4	1047.6	1057.1	1064.2	1067.2	1065.4	1042.5
30°	1007.9	1020.2	1032.6	1045.3	1056.4	1067.1	1077.8	1085.7	1089.9	1079.3	1056.3
27.5°	1026.7	1039.4	1051.1	1063.0	1075.6	1086.1	1096.3	1106.0	1103.7	1088.1	1066.4
25°	1044.1	1056.3	1068.9	1080.4	1092.3	1104.7	1114.5	1117.2	1109.8	1096.4	1076.7
22.5°	1059.9	1071.8	1084.4	1097.5	1108.7	1120.8	1125.2	1121.5	1116.4	1103.7	1084.4
20°	1074.6	1085.9	1098.6	1112.1	1125.1	1128.3	1129.5	1125.9	1120.3	1109.8	1091.7
17.5°	1085.8	1099.8	1111.5	1125.9	1130.3	1131.8	1132.3	1130.7	1124.4	1116.1	1098.8
15°	1095.0	1111.1	1122.2	1127.3	1132.2	1135.4	1135.3	1135.8	1128.6	1120.8	1104.0
12.5°	1106.6	1114.1	1124.5	1129.5	1134.4	1138.4	1138.5	1138.6	1132.9	1124.2	1108.9
10°	1109.0	1114.5	1124.5	1132.0	1137.0	1140.8	1142.0	1141.5	1137.3	1127.4	1113.4
7.5°	1108.0	1116.2	1124.8	1134.2	1140.1	1143.3	1145.5	1144.4	1141.5	1130.5	1117.5
5°	1108.0	1117.9	1126.2	1136.5	1143.8	1146.2	1149.0	1147.2	1145.5	1133.2	1120.8
2.5°	1108.9	1119.8	1128.6	1139.0	1147.9	1149.4	1152.4	1150.1	1149.0	1135.5	1123.3
0°	1111.1	1122.3	1132.1	1142.2	1152.2	1152.7	1155.7	1153.0	1152.0	1137.3	1124.8
-2.5°	1108.9	1119.8	1128.6	1139.0	1147.9	1149.4	1152.4	1150.1	1149.0	1135.5	1123.3
-5°	1108.0	1117.9	1126.2	1136.5	1143.8	1146.2	1149.0	1147.2	1145.5	1133.2	1120.8
-7.5°	1108.0	1116.2	1124.8	1134.2	1140.1	1143.3	1145.5	1144.4	1141.5	1130.5	1117.5
-10°	1109.0	1114.5	1124.5	1132.0	1137.0	1140.8	1142.0	1141.5	1137.3	1127.4	1113.4
-12.5°	1106.6	1114.1	1124.5	1129.5	1134.4	1138.4	1138.5	1138.6	1132.9	1124.2	1108.9
-15°	1095.0	1111.1	1122.2	1127.3	1132.2	1135.4	1135.3	1135.8	1128.6	1120.8	1104.0
-17.5°	1085.8	1099.8	1111.5	1125.9	1130.3	1131.8	1132.3	1130.7	1124.4	1116.1	1098.8
-20°	1074.6	1085.9	1098.6	1112.1	1125.1	1128.3	1129.5	1125.9	1120.3	1109.8	1091.7

Classified

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Scaled Data Report



REPORT NUMBER: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1059.9	1071.8	1084.4	1097.5	1108.7	1120.8	1125.2	1121.5	1116.4	1103.7	1084.4
-25°	1044.1	1056.3	1068.9	1080.4	1092.3	1104.7	1114.5	1117.2	1109.8	1096.4	1076.7
-27.5°	1026.7	1039.4	1051.1	1063.0	1075.6	1086.1	1096.3	1106.0	1103.7	1088.1	1066.4
-30°	1007.9	1020.2	1032.6	1045.3	1056.4	1067.1	1077.8	1085.7	1089.9	1079.3	1056.3
-32.5°	987.3	1000.4	1013.4	1025.0	1036.4	1047.6	1057.1	1064.2	1067.2	1065.4	1042.5
-35°	965.9	979.1	991.6	1003.8	1015.7	1026.6	1035.6	1040.6	1042.3	1039.8	1027.9
-37.5°	942.4	955.9	969.0	981.9	994.2	1004.3	1011.2	1015.7	1017.3	1010.9	998.0
-40°	917.7	931.9	946.4	960.1	970.6	979.3	986.0	990.4	987.8	980.3	965.6
-42.5°	893.5	909.6	923.3	934.8	945.2	954.1	960.1	960.9	957.1	947.3	926.1
-45°	867.4	884.1	897.3	909.8	920.6	927.4	931.0	930.0	924.5	908.6	885.7
-47.5°	838.1	858.5	873.7	884.7	893.0	898.7	900.0	897.7	885.7	868.0	837.1
-50°	809.3	830.9	848.0	857.8	864.6	868.5	866.7	859.3	844.4	820.3	786.2
-52.5°	777.0	800.8	822.7	830.9	835.1	835.1	830.6	817.4	798.6	768.4	728.7
-55°	743.6	769.5	795.5	803.0	803.9	798.8	789.0	772.1	746.1	713.1	666.5
-57.5°	708.3	735.9	762.9	772.9	769.2	759.7	743.9	722.1	690.7	650.8	602.7
-60°	669.2	698.3	726.5	741.7	732.4	718.1	695.8	667.3	632.3	587.6	535.8
-62.5°	627.9	658.1	687.6	709.6	693.5	672.4	645.0	610.3	569.8	522.5	465.3
-65°	583.7	614.5	644.7	672.5	651.1	623.0	590.0	547.1	497.9	445.7	391.0
-67.5°	534.0	564.4	594.0	619.6	594.6	554.5	511.7	466.5	419.3	370.8	321.2
-70°	464.4	488.1	509.3	527.7	510.3	470.1	428.5	385.7	341.7	298.5	256.9
-72.5°	379.7	399.5	416.6	430.8	420.2	382.0	343.7	305.7	268.3	231.5	196.5
-75°	292.6	307.1	318.9	328.0	321.4	289.1	257.9	227.5	197.9	169.1	141.3
-77.5°	205.6	215.5	223.3	228.9	225.7	201.0	176.6	154.1	135.0	116.7	99.3
-80°	131.0	137.9	143.6	148.1	148.4	133.1	118.0	103.4	89.3	77.0	66.6
-82.5°	78.6	82.8	86.3	89.1	90.3	81.6	73.2	65.3	57.7	50.6	44.0
-85°	41.7	43.6	45.4	46.8	47.8	44.1	40.5	37.1	33.8	30.5	27.5
-87.5°	17.9	18.5	19.0	19.5	19.8	18.7	17.6	16.5	15.4	14.2	13.1
-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: P670567 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLM40FSUNVDBZK-25W-4000K

**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°	12.1	11.0	10.0	9.0	8.1	7.1	6.1	5.2	4.4	3.6	2.9
85°	24.8	22.2	19.8	17.6	15.8	14.2	12.2	10.4	8.7	7.2	5.7
82.5°	38.1	33.3	29.1	25.3	21.9	18.9	16.7	14.6	12.5	10.6	8.5
80°	57.1	48.4	40.6	33.8	28.0	23.5	20.7	18.0	15.4	13.1	10.8
77.5°	82.8	67.4	53.1	42.9	34.5	28.3	24.9	21.5	18.3	15.5	12.8
75°	114.6	94.2	76.1	59.4	44.3	32.9	29.0	25.1	21.4	17.9	14.7
72.5°	164.3	133.5	104.4	77.9	59.5	45.9	36.3	28.6	24.5	20.5	16.7
70°	216.4	177.3	142.2	110.2	80.4	58.9	47.6	37.1	27.6	23.1	18.8
67.5°	270.5	226.2	183.6	142.8	107.7	82.4	60.3	46.5	35.5	25.7	20.9
65°	336.7	281.2	225.7	180.4	137.2	106.6	81.6	58.3	43.1	32.0	22.9
62.5°	404.9	342.7	282.5	221.2	171.3	135.9	102.0	76.1	52.0	38.0	27.0
60°	476.3	410.1	340.5	274.1	213.2	166.5	128.4	93.0	66.6	43.7	31.7
57.5°	544.1	477.9	405.3	329.1	262.6	203.9	155.4	114.8	80.4	54.2	36.1
55°	611.5	545.4	470.0	389.7	313.6	246.5	185.8	138.4	95.3	65.3	40.2
52.5°	676.5	612.3	536.7	451.1	368.0	288.8	222.1	161.2	115.7	75.7	48.4
50°	738.2	677.7	602.5	512.7	420.6	335.8	256.2	190.7	135.3	87.6	56.7
47.5°	796.8	738.9	664.2	570.6	474.4	380.2	294.3	219.4	154.0	104.2	64.3
45°	847.1	797.0	718.0	623.8	525.3	425.4	332.1	246.1	177.6	119.9	71.2
42.5°	895.6	844.3	764.7	674.3	572.1	469.1	367.4	276.9	199.6	134.8	81.4
40°	936.4	880.5	806.8	715.9	616.1	509.9	404.0	306.4	219.9	150.1	93.6
37.5°	969.5	911.1	839.7	755.7	656.1	547.6	438.4	333.5	240.1	166.6	105.1
35°	988.9	937.6	871.7	788.9	690.7	582.5	470.0	359.8	262.5	181.6	115.7
32.5°	1007.8	961.1	896.4	817.0	723.1	614.7	499.1	386.0	282.8	195.1	125.5
30°	1022.8	978.3	919.8	843.8	751.6	642.2	525.8	409.6	300.9	207.1	134.8
27.5°	1036.5	995.4	940.8	865.2	774.0	667.3	549.9	430.5	316.9	219.1	144.4
25°	1048.9	1008.6	955.3	884.2	794.8	689.9	571.2	448.9	332.7	231.9	152.8
22.5°	1057.7	1020.2	969.2	902.0	813.8	710.1	589.4	465.6	347.2	242.8	159.8
20°	1066.3	1031.3	982.2	917.3	828.8	724.5	604.8	479.8	359.3	252.0	165.6
17.5°	1074.2	1040.0	991.3	926.9	840.8	736.8	617.6	491.5	369.1	259.3	170.2
15°	1079.6	1046.1	998.8	935.2	851.0	746.9	628.0	500.4	376.5	264.8	173.6
12.5°	1084.5	1051.4	1005.2	942.2	859.2	754.8	635.6	506.8	381.6	268.6	175.8
10°	1088.7	1055.9	1010.4	947.6	865.3	760.1	640.5	510.5	384.5	270.6	177.0
7.5°	1092.2	1059.4	1014.2	951.1	869.1	762.9	642.7	511.5	385.1	270.9	177.0
5°	1094.7	1061.6	1016.3	952.7	870.3	762.9	641.9	510.0	383.5	269.6	175.9
2.5°	1096.2	1062.4	1016.6	952.0	868.8	760.1	638.2	505.8	379.8	266.7	173.9
0°	1096.3	1061.7	1014.9	949.0	864.4	754.2	631.6	499.1	373.9	262.3	170.9
-2.5°	1096.2	1062.4	1016.6	952.0	868.8	760.1	638.2	505.8	379.8	266.7	173.9
-5°	1094.7	1061.6	1016.3	952.7	870.3	762.9	641.9	510.0	383.5	269.6	175.9
-7.5°	1092.2	1059.4	1014.2	951.1	869.1	762.9	642.7	511.5	385.1	270.9	177.0
-10°	1088.7	1055.9	1010.4	947.6	865.3	760.1	640.5	510.5	384.5	270.6	177.0
-12.5°	1084.5	1051.4	1005.2	942.2	859.2	754.8	635.6	506.8	381.6	268.6	175.8
-15°	1079.6	1046.1	998.8	935.2	851.0	746.9	628.0	500.4	376.5	264.8	173.6
-17.5°	1074.2	1040.0	991.3	926.9	840.8	736.8	617.6	491.5	369.1	259.3	170.2
-20°	1066.3	1031.3	982.2	917.3	828.8	724.5	604.8	479.8	359.3	252.0	165.6



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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°	1057.7	1020.2	969.2	902.0	813.8	710.1	589.4	465.6	347.2	242.8	159.8
-25°	1048.9	1008.6	955.3	884.2	794.8	689.9	571.2	448.9	332.7	231.9	152.8
-27.5°	1036.5	995.4	940.8	865.2	774.0	667.3	549.9	430.5	316.9	219.1	144.4
-30°	1022.8	978.3	919.8	843.8	751.6	642.2	525.8	409.6	300.9	207.1	134.8
-32.5°	1007.8	961.1	896.4	817.0	723.1	614.7	499.1	386.0	282.8	195.1	125.5
-35°	988.9	937.6	871.7	788.9	690.7	582.5	470.0	359.8	262.5	181.6	115.7
-37.5°	969.5	911.1	839.7	755.7	656.1	547.6	438.4	333.5	240.1	166.6	105.1
-40°	936.4	880.5	806.8	715.9	616.1	509.9	404.0	306.4	219.9	150.1	93.6
-42.5°	895.6	844.3	764.7	674.3	572.1	469.1	367.4	276.9	199.6	134.8	81.4
-45°	847.1	797.0	718.0	623.8	525.3	425.4	332.1	246.1	177.6	119.9	71.2
-47.5°	796.8	738.9	664.2	570.6	474.4	380.2	294.3	219.4	154.0	104.2	64.3
-50°	738.2	677.7	602.5	512.7	420.6	335.8	256.2	190.7	135.3	87.6	56.7
-52.5°	676.5	612.3	536.7	451.1	368.0	288.8	222.1	161.2	115.7	75.7	48.4
-55°	611.5	545.4	470.0	389.7	313.6	246.5	185.8	138.4	95.3	65.3	40.2
-57.5°	544.1	477.9	405.3	329.1	262.6	203.9	155.4	114.8	80.4	54.2	36.1
-60°	476.3	410.1	340.5	274.1	213.2	166.5	128.4	93.0	66.6	43.7	31.7
-62.5°	404.9	342.7	282.5	221.2	171.3	135.9	102.0	76.1	52.0	38.0	27.0
-65°	336.7	281.2	225.7	180.4	137.2	106.6	81.6	58.3	43.1	32.0	22.9
-67.5°	270.5	226.2	183.6	142.8	107.7	82.4	60.3	46.5	35.5	25.7	20.9
-70°	216.4	177.3	142.2	110.2	80.4	58.9	47.6	37.1	27.6	23.1	18.8
-72.5°	164.3	133.5	104.4	77.9	59.5	45.9	36.3	28.6	24.5	20.5	16.7
-75°	114.6	94.2	76.1	59.4	44.3	32.9	29.0	25.1	21.4	17.9	14.7
-77.5°	82.8	67.4	53.1	42.9	34.5	28.3	24.9	21.5	18.3	15.5	12.8
-80°	57.1	48.4	40.6	33.8	28.0	23.5	20.7	18.0	15.4	13.1	10.8
-82.5°	38.1	33.3	29.1	25.3	21.9	18.9	16.7	14.6	12.5	10.6	8.5
-85°	24.8	22.2	19.8	17.6	15.8	14.2	12.2	10.4	8.7	7.2	5.7
-87.5°	12.1	11.0	10.0	9.0	8.1	7.1	6.1	5.2	4.4	3.6	2.9
-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°	2.2	1.6	1.1	0.7	0.4	0.2	0.0
85°	4.4	3.3	2.3	1.5	0.8	0.3	0.0
82.5°	6.5	4.9	3.4	2.2	1.2	0.5	0.0
80°	8.6	6.5	4.5	2.9	1.6	0.7	0.0
77.5°	10.2	7.9	5.6	3.6	2.0	0.8	0.0
75°	11.8	9.1	6.6	4.3	2.4	1.0	0.0
72.5°	13.3	10.3	7.5	5.0	2.8	1.1	0.0
70°	14.8	11.4	8.3	5.6	3.1	1.3	0.0
67.5°	16.5	12.5	9.1	6.2	3.5	1.4	0.0
65°	18.2	13.6	9.9	6.7	3.8	1.6	0.0
62.5°	19.8	14.9	10.6	7.2	4.1	1.7	0.0
60°	21.3	16.2	11.3	7.7	4.5	1.8	0.0
57.5°	24.6	17.3	12.2	8.1	4.7	2.0	0.0
55°	27.9	18.4	13.1	8.6	5.0	2.1	0.0
52.5°	31.0	19.7	13.9	8.9	5.3	2.2	0.0
50°	33.9	22.0	14.7	9.3	5.5	2.3	0.0
47.5°	37.0	24.0	15.4	9.7	5.7	2.4	0.0
45°	42.9	25.9	16.0	10.2	5.9	2.5	0.0
42.5°	48.2	27.6	16.6	10.6	6.1	2.6	0.0
40°	53.1	29.1	17.5	11.0	6.3	2.6	0.0
37.5°	57.5	30.4	18.6	11.4	6.4	2.7	0.0
35°	61.3	32.9	19.5	11.7	6.5	2.8	0.0
32.5°	66.1	35.9	20.3	12.0	6.6	2.8	0.0
30°	73.8	38.5	21.0	12.3	6.7	2.9	0.0
27.5°	80.7	40.7	21.6	12.5	6.8	2.9	0.0
25°	86.9	42.5	22.0	12.6	6.8	2.9	0.0
22.5°	92.4	43.9	22.3	12.8	6.9	2.9	0.0
20°	97.1	45.0	22.4	12.8	6.9	3.0	0.0
17.5°	101.0	45.7	22.5	12.9	6.9	3.0	0.0
15°	104.1	46.1	22.4	12.9	6.8	3.0	0.0
12.5°	106.5	46.2	22.3	12.8	6.8	2.9	0.0
10°	108.1	45.9	22.0	12.8	6.7	2.9	0.0
7.5°	108.9	45.4	21.6	12.7	6.6	2.9	0.0
5°	108.9	44.6	21.2	12.5	6.5	2.9	0.0
2.5°	108.2	43.5	20.7	12.3	6.4	2.8	0.0
0°	106.7	42.2	20.1	12.1	6.3	2.8	0.0
-2.5°	108.2	43.5	20.7	12.3	6.4	2.8	0.0
-5°	108.9	44.6	21.2	12.5	6.5	2.9	0.0
-7.5°	108.9	45.4	21.6	12.7	6.6	2.9	0.0
-10°	108.1	45.9	22.0	12.8	6.7	2.9	0.0
-12.5°	106.5	46.2	22.3	12.8	6.8	2.9	0.0
-15°	104.1	46.1	22.4	12.9	6.8	3.0	0.0
-17.5°	101.0	45.7	22.5	12.9	6.9	3.0	0.0
-20°	97.1	45.0	22.4	12.8	6.9	3.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	92.4	43.9	22.3	12.8	6.9	2.9	0.0
-25°	86.9	42.5	22.0	12.6	6.8	2.9	0.0
-27.5°	80.7	40.7	21.6	12.5	6.8	2.9	0.0
-30°	73.8	38.5	21.0	12.3	6.7	2.9	0.0
-32.5°	66.1	35.9	20.3	12.0	6.6	2.8	0.0
-35°	61.3	32.9	19.5	11.7	6.5	2.8	0.0
-37.5°	57.5	30.4	18.6	11.4	6.4	2.7	0.0
-40°	53.1	29.1	17.5	11.0	6.3	2.6	0.0
-42.5°	48.2	27.6	16.6	10.6	6.1	2.6	0.0
-45°	42.9	25.9	16.0	10.2	5.9	2.5	0.0
-47.5°	37.0	24.0	15.4	9.7	5.7	2.4	0.0
-50°	33.9	22.0	14.7	9.3	5.5	2.3	0.0
-52.5°	31.0	19.7	13.9	8.9	5.3	2.2	0.0
-55°	27.9	18.4	13.1	8.6	5.0	2.1	0.0
-57.5°	24.6	17.3	12.2	8.1	4.7	2.0	0.0
-60°	21.3	16.2	11.3	7.7	4.5	1.8	0.0
-62.5°	19.8	14.9	10.6	7.2	4.1	1.7	0.0
-65°	18.2	13.6	9.9	6.7	3.8	1.6	0.0
-67.5°	16.5	12.5	9.1	6.2	3.5	1.4	0.0
-70°	14.8	11.4	8.3	5.6	3.1	1.3	0.0
-72.5°	13.3	10.3	7.5	5.0	2.8	1.1	0.0
-75°	11.8	9.1	6.6	4.3	2.4	1.0	0.0
-77.5°	10.2	7.9	5.6	3.6	2.0	0.8	0.0
-80°	8.6	6.5	4.5	2.9	1.6	0.7	0.0
-82.5°	6.5	4.9	3.4	2.2	1.2	0.5	0.0
-85°	4.4	3.3	2.3	1.5	0.8	0.3	0.0
-87.5°	2.2	1.6	1.1	0.7	0.4	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)