

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



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4D-722-U-LAM-XX**

Issue Date: 2/28/2023

Test Information

Test Method: LM-79-08
Report Number: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/28/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA4D-722-U-LAM-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, LAMBERTIAN
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

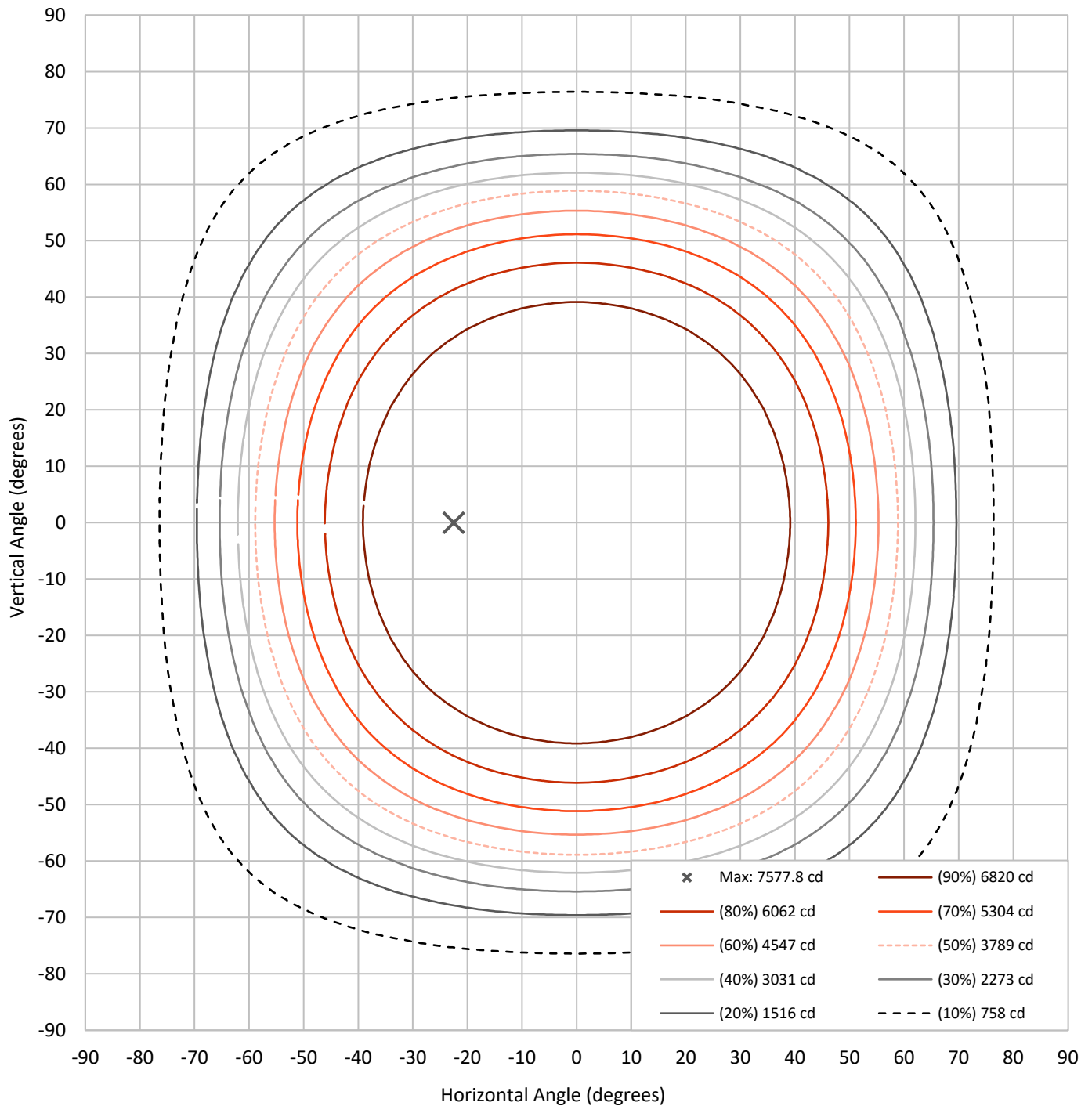
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23180.9 lumens	Max Intensity:	7577.8 candela
Efficiency:	N/A	Max Intensity Angle:	-22.5°H x 0°V
Efficacy:	104.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	117.8°H x 112°V	Field Angle (10%):	152.8°H x 150.5°V
Beam Lumens:	19291.6 lumens	Field Lumens:	22725 lumens
Beam Efficiency:	83.2%	Field Efficiency:	98.0%
Input Watts (W):	221.4		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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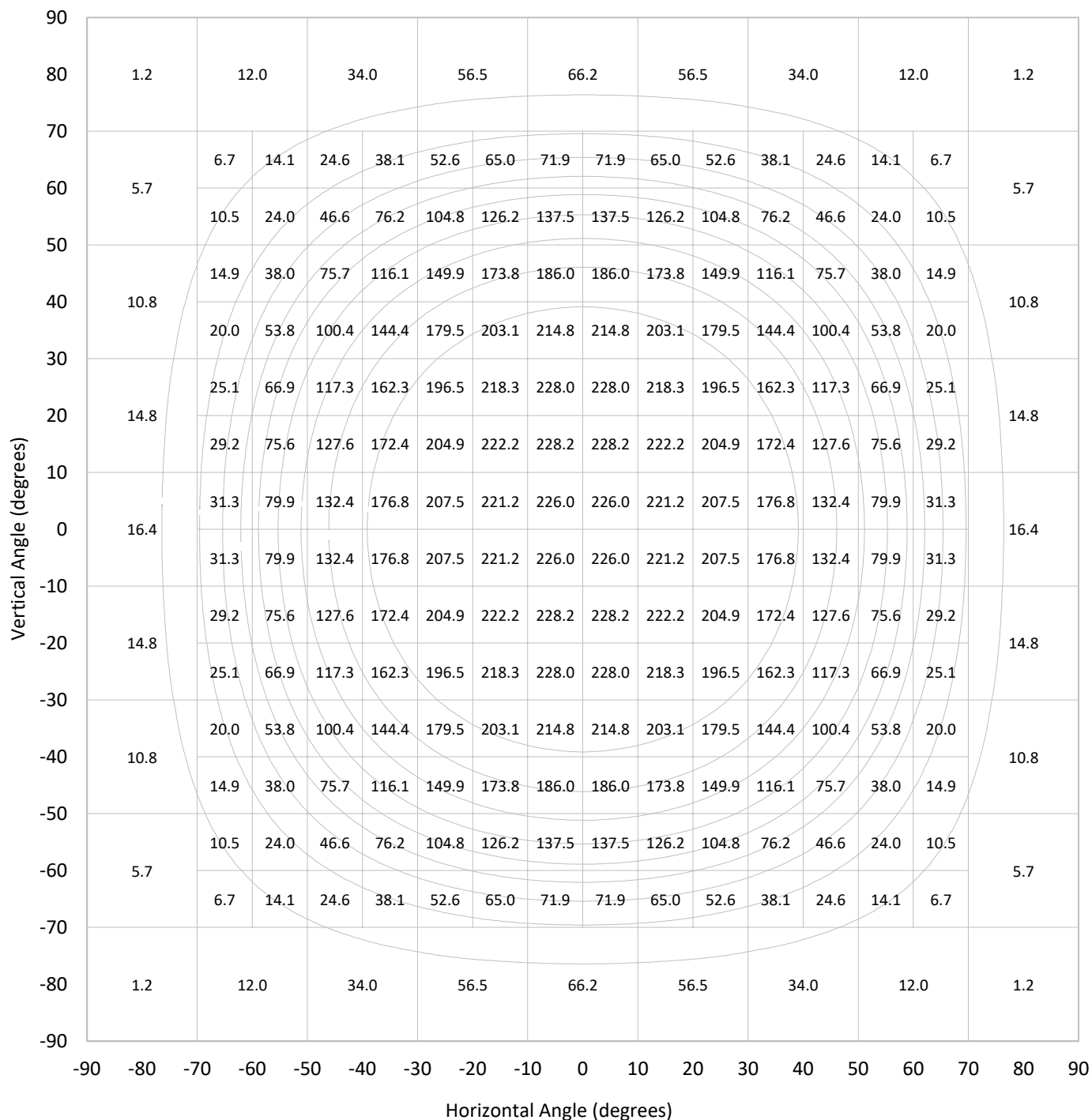
Iso-Candela Plot





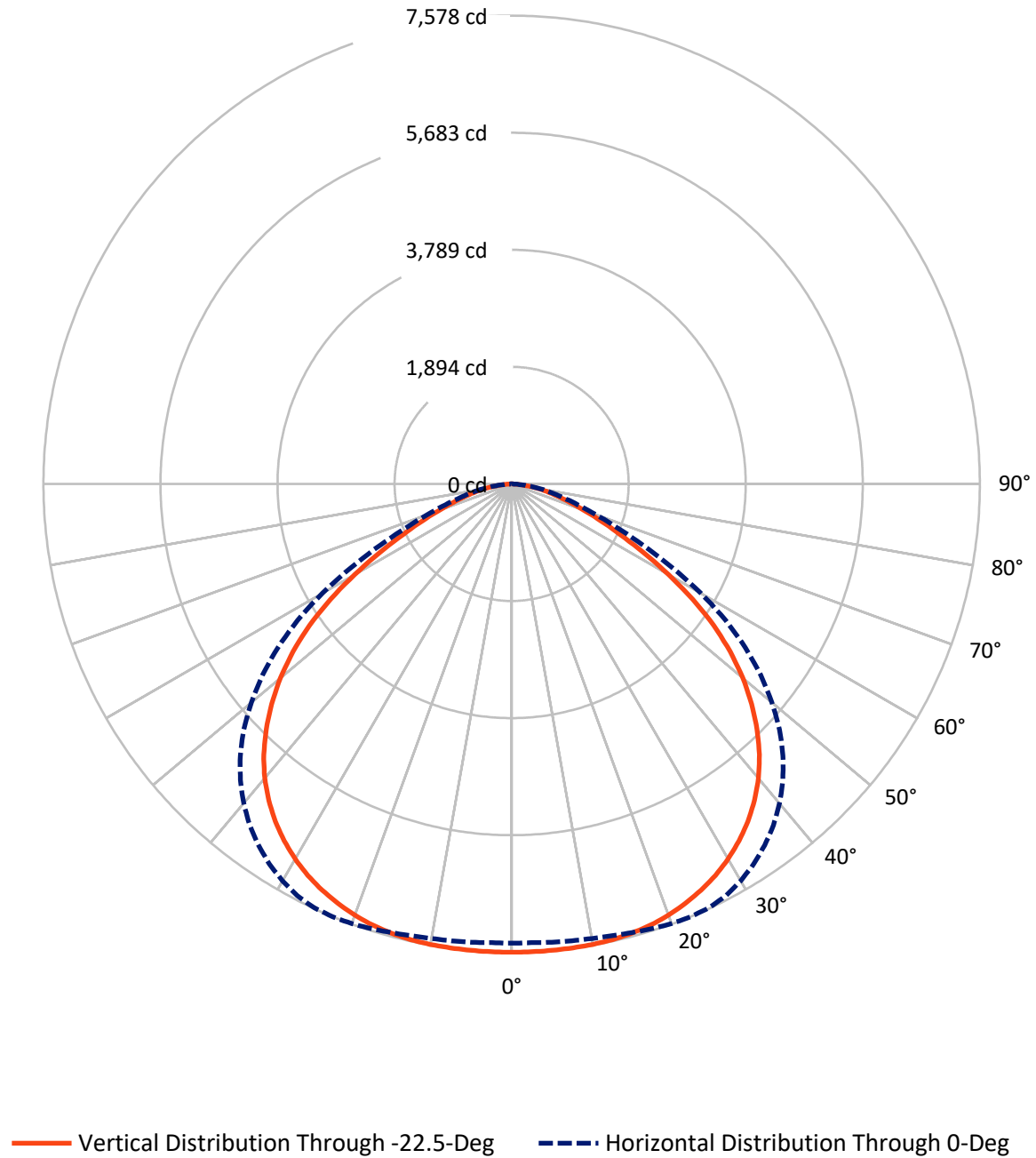
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Lumen Table



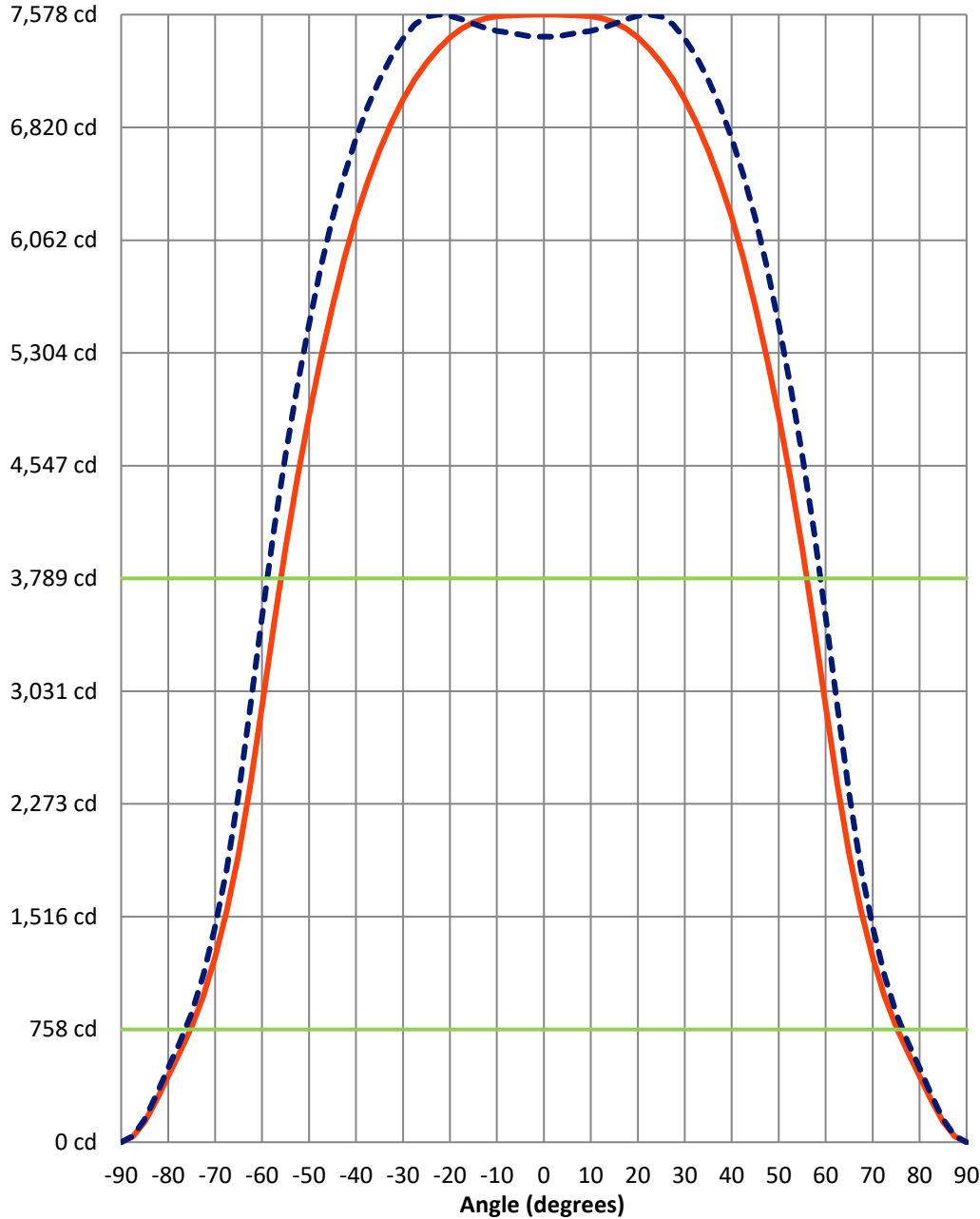
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 117.8°
 V Angle: 112°
 Lumens: 19291.6
 Efficiency: 83.2%

Field:
 H Angle: 152.8°
 V Angle: 150.5°
 Lumens: 22725
 Efficiency: 98.0%

Spill:
 Lumens: 455.9
 Efficiency: 2.0%

— Vertical Distribution through -22.5-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	1.8	3.6	5.4	7.2	9.0	10.7	12.5	14.2	15.9	17.5
85°	0.0	3.6	7.2	10.8	14.4	17.9	21.5	24.9	28.4	31.7	35.0
82.5°	0.0	5.4	10.8	16.2	21.6	26.9	32.1	37.3	44.1	57.9	71.4
80°	0.0	7.2	14.4	21.6	28.7	35.8	44.9	63.7	82.3	100.6	118.5
77.5°	0.0	9.0	17.9	26.9	35.8	49.8	73.6	97.0	120.2	143.0	170.5
75°	0.0	10.7	21.5	32.1	44.9	73.6	102.0	130.0	159.4	199.1	238.2
72.5°	0.0	12.5	24.9	37.3	63.7	97.0	130.0	166.5	213.5	259.8	305.3
70°	0.0	14.2	28.4	44.1	82.3	120.2	159.4	213.5	267.0	319.9	377.0
67.5°	0.0	15.9	31.7	57.9	100.6	143.0	199.1	259.8	319.9	385.0	449.0
65°	0.0	17.5	35.0	71.4	118.5	170.5	238.2	305.3	377.0	449.0	519.0
62.5°	0.0	19.2	38.3	84.6	136.1	202.5	276.6	353.2	433.1	511.4	585.6
60°	0.0	20.7	41.5	97.5	153.3	233.9	314.2	401.3	488.0	570.2	650.8
57.5°	0.0	22.3	49.8	110.1	177.4	264.4	354.1	448.4	539.8	627.8	720.5
55°	0.0	23.8	58.0	122.4	201.2	294.2	393.4	494.2	589.7	685.6	791.2
52.5°	0.0	25.3	65.9	134.3	224.4	323.6	431.5	536.9	638.3	747.6	860.0
50°	0.0	26.7	73.6	145.8	246.7	354.3	468.5	578.1	687.2	807.7	945.6
47.5°	0.0	28.0	81.0	158.1	268.3	384.0	503.9	617.9	738.9	865.9	1030.6
45°	0.0	29.3	88.1	173.6	289.0	412.6	536.7	656.2	788.6	939.1	1112.7
42.5°	0.0	30.6	94.9	188.5	308.9	440.0	568.2	695.8	836.3	1009.9	1209.3
40°	0.0	31.8	101.4	202.7	328.8	466.1	598.2	735.6	886.6	1077.6	1304.8
37.5°	0.0	32.9	107.5	216.2	348.6	491.0	626.7	773.5	943.7	1146.8	1395.9
35°	0.0	34.0	113.4	228.9	367.4	513.8	653.7	809.3	997.8	1224.1	1488.9
32.5°	0.0	35.0	118.8	240.9	385.0	534.8	680.1	843.1	1048.7	1297.0	1586.6
30°	0.0	35.9	123.9	252.1	401.5	554.5	707.0	877.0	1096.4	1365.3	1678.2
27.5°	0.0	36.8	128.7	262.5	416.7	572.8	732.0	915.5	1145.1	1428.8	1763.5
25°	0.0	37.6	133.0	272.0	430.8	589.7	755.0	951.0	1196.7	1494.9	1843.1
22.5°	0.0	38.3	137.0	280.7	443.6	605.0	776.0	983.4	1243.8	1559.1	1936.2
20°	0.0	39.0	140.6	288.5	455.1	618.8	794.9	1012.5	1286.3	1616.9	2020.2
17.5°	0.0	39.6	143.7	295.5	465.3	631.1	811.7	1038.4	1324.1	1668.3	2094.9
15°	0.0	40.1	146.5	301.5	474.2	641.8	826.3	1061.0	1357.0	1713.2	2160.1
12.5°	0.0	40.5	148.8	306.7	481.8	650.8	838.8	1080.2	1385.0	1751.4	2215.6
10°	0.0	40.9	150.8	310.9	488.0	658.3	849.0	1096.0	1408.1	1782.8	2261.3
7.5°	0.0	41.1	152.3	314.2	492.9	664.1	856.9	1108.3	1426.0	1807.3	2297.0
5°	0.0	41.3	153.3	316.5	496.3	668.3	862.6	1117.1	1438.9	1824.8	2322.5
2.5°	0.0	41.5	154.0	317.9	498.4	670.8	866.1	1122.4	1446.6	1835.4	2337.9
0°	0.0	41.5	154.2	318.4	499.1	671.6	867.2	1124.2	1449.2	1838.9	2343.0
-2.5°	0.0	41.5	154.0	317.9	498.4	670.8	866.1	1122.4	1446.6	1835.4	2337.9
-5°	0.0	41.3	153.3	316.5	496.3	668.3	862.6	1117.1	1438.9	1824.8	2322.5
-7.5°	0.0	41.1	152.3	314.2	492.9	664.1	856.9	1108.3	1426.0	1807.3	2297.0
-10°	0.0	40.9	150.8	310.9	488.0	658.3	849.0	1096.0	1408.1	1782.8	2261.3
-12.5°	0.0	40.5	148.8	306.7	481.8	650.8	838.8	1080.2	1385.0	1751.4	2215.6
-15°	0.0	40.1	146.5	301.5	474.2	641.8	826.3	1061.0	1357.0	1713.2	2160.1
-17.5°	0.0	39.6	143.7	295.5	465.3	631.1	811.7	1038.4	1324.1	1668.3	2094.9
-20°	0.0	39.0	140.6	288.5	455.1	618.8	794.9	1012.5	1286.3	1616.9	2020.2



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 CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	38.3	137.0	280.7	443.6	605.0	776.0	983.4	1243.8	1559.1	1936.2
-25°	0.0	37.6	133.0	272.0	430.8	589.7	755.0	951.0	1196.7	1494.9	1843.1
-27.5°	0.0	36.8	128.7	262.5	416.7	572.8	732.0	915.5	1145.1	1428.8	1763.5
-30°	0.0	35.9	123.9	252.1	401.5	554.5	707.0	877.0	1096.4	1365.3	1678.2
-32.5°	0.0	35.0	118.8	240.9	385.0	534.8	680.1	843.1	1048.7	1297.0	1586.6
-35°	0.0	34.0	113.4	228.9	367.4	513.8	653.7	809.3	997.8	1224.1	1488.9
-37.5°	0.0	32.9	107.5	216.2	348.6	491.0	626.7	773.5	943.7	1146.8	1395.9
-40°	0.0	31.8	101.4	202.7	328.8	466.1	598.2	735.6	886.6	1077.6	1304.8
-42.5°	0.0	30.6	94.9	188.5	308.9	440.0	568.2	695.8	836.3	1009.9	1209.3
-45°	0.0	29.3	88.1	173.6	289.0	412.6	536.7	656.2	788.6	939.1	1112.7
-47.5°	0.0	28.0	81.0	158.1	268.3	384.0	503.9	617.9	738.9	865.9	1030.6
-50°	0.0	26.7	73.6	145.8	246.7	354.3	468.5	578.1	687.2	807.7	945.6
-52.5°	0.0	25.3	65.9	134.3	224.4	323.6	431.5	536.9	638.3	747.6	860.0
-55°	0.0	23.8	58.0	122.4	201.2	294.2	393.4	494.2	589.7	685.6	791.2
-57.5°	0.0	22.3	49.8	110.1	177.4	264.4	354.1	448.4	539.8	627.8	720.5
-60°	0.0	20.7	41.5	97.5	153.3	233.9	314.2	401.3	488.0	570.2	650.8
-62.5°	0.0	19.2	38.3	84.6	136.1	202.5	276.6	353.2	433.1	511.4	585.6
-65°	0.0	17.5	35.0	71.4	118.5	170.5	238.2	305.3	377.0	449.0	519.0
-67.5°	0.0	15.9	31.7	57.9	100.6	143.0	199.1	259.8	319.9	385.0	449.0
-70°	0.0	14.2	28.4	44.1	82.3	120.2	159.4	213.5	267.0	319.9	377.0
-72.5°	0.0	12.5	24.9	37.3	63.7	97.0	130.0	166.5	213.5	259.8	305.3
-75°	0.0	10.7	21.5	32.1	44.9	73.6	102.0	130.0	159.4	199.1	238.2
-77.5°	0.0	9.0	17.9	26.9	35.8	49.8	73.6	97.0	120.2	143.0	170.5
-80°	0.0	7.2	14.4	21.6	28.7	35.8	44.9	63.7	82.3	100.6	118.5
-82.5°	0.0	5.4	10.8	16.2	21.6	26.9	32.1	37.3	44.1	57.9	71.4
-85°	0.0	3.6	7.2	10.8	14.4	17.9	21.5	24.9	28.4	31.7	35.0
-87.5°	0.0	1.8	3.6	5.4	7.2	9.0	10.7	12.5	14.2	15.9	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



REPORT NUMBER: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-722-U-LAM-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°	19.2	20.7	22.3	23.8	25.3	26.7	28.0	29.3	30.6	31.8	32.9
85°	38.3	41.5	49.8	58.0	65.9	73.6	81.0	88.1	94.9	101.4	107.5
82.5°	84.6	97.5	110.1	122.4	134.3	145.8	158.1	173.6	188.5	202.7	216.2
80°	136.1	153.3	177.4	201.2	224.4	246.7	268.3	289.0	308.9	328.8	348.6
77.5°	202.5	233.9	264.4	294.2	323.6	354.3	384.0	412.6	440.0	466.1	491.0
75°	276.6	314.2	354.1	393.4	431.5	468.5	503.9	536.7	568.2	598.2	626.7
72.5°	353.2	401.3	448.4	494.2	536.9	578.1	617.9	656.2	695.8	735.6	773.5
70°	433.1	488.0	539.8	589.7	638.3	687.2	738.9	788.6	836.3	886.6	943.7
67.5°	511.4	570.2	627.8	685.6	747.6	807.7	865.9	939.1	1009.9	1077.6	1146.8
65°	585.6	650.8	720.5	791.2	860.0	945.6	1030.6	1112.7	1209.3	1304.8	1395.9
62.5°	658.5	738.0	817.5	904.0	1003.5	1100.1	1212.2	1326.6	1436.7	1560.7	1681.4
60°	738.0	826.3	927.2	1038.4	1152.9	1286.3	1415.7	1559.1	1703.5	1843.1	2014.4
57.5°	817.5	927.2	1050.1	1182.7	1331.2	1481.1	1649.4	1812.3	2007.7	2202.9	2397.1
55°	904.0	1038.4	1182.7	1346.2	1517.3	1704.0	1899.2	2126.7	2346.9	2592.3	2827.2
52.5°	1003.5	1152.9	1331.2	1517.3	1722.3	1946.9	2198.8	2459.3	2733.6	3000.0	3261.3
50°	1100.1	1286.3	1481.1	1704.0	1946.9	2222.9	2515.8	2819.2	3118.7	3410.9	3684.5
47.5°	1212.2	1415.7	1649.4	1899.2	2198.8	2515.8	2847.9	3178.5	3501.5	3801.2	4088.2
45°	1326.6	1559.1	1812.3	2126.7	2459.3	2819.2	3178.5	3531.9	3860.0	4169.7	4440.6
42.5°	1436.7	1703.5	2007.7	2346.9	2733.6	3118.7	3501.5	3860.0	4196.2	4494.5	4766.6
40°	1560.7	1843.1	2202.9	2592.3	3000.0	3410.9	3801.2	4169.7	4494.5	4791.5	5067.1
37.5°	1681.4	2014.4	2397.1	2827.2	3261.3	3684.5	4088.2	4440.6	4766.6	5067.1	5331.4
35°	1796.0	2177.3	2603.4	3054.9	3510.6	3940.9	4333.9	4692.7	5016.6	5308.1	5578.4
32.5°	1923.5	2331.2	2798.6	3273.7	3737.8	4175.9	4565.5	4916.5	5238.5	5534.5	5802.9
30°	2054.9	2497.3	2984.0	3479.8	3951.2	4379.7	4768.7	5124.1	5443.5	5735.9	5999.0
27.5°	2177.3	2653.9	3160.8	3666.2	4146.1	4570.8	4954.6	5304.5	5625.8	5920.1	6175.1
25°	2290.4	2798.6	3324.5	3836.9	4310.2	4736.0	5123.1	5472.8	5792.2	6074.7	6322.6
22.5°	2402.0	2931.3	3474.5	3993.4	4461.0	4883.5	5267.2	5617.7	5937.4	6217.3	6455.1
20°	2510.5	3054.9	3606.8	4132.3	4597.8	5017.6	5398.4	5748.2	6059.4	6330.3	6567.1
17.5°	2607.1	3165.0	3722.5	4244.4	4710.3	5132.1	5514.4	5865.4	6169.1	6432.3	6663.8
15°	2691.4	3261.3	3823.8	4342.6	4807.0	5227.2	5609.5	5956.7	6258.3	6519.4	6749.2
12.5°	2763.3	3343.3	3910.1	4426.4	4889.7	5308.6	5691.0	6033.4	6329.9	6587.6	6812.5
10°	2822.4	3410.9	3981.3	4495.5	4958.0	5375.8	5758.4	6096.9	6389.3	6644.3	6865.2
7.5°	2868.6	3463.7	4037.0	4549.6	5011.4	5428.5	5811.2	6146.7	6436.0	6688.9	6906.7
5°	2901.7	3501.5	4076.9	4588.4	5049.8	5466.4	5849.2	6182.6	6469.6	6721.1	6936.8
2.5°	2921.7	3524.3	4100.9	4611.8	5072.9	5489.2	5872.1	6204.3	6489.9	6740.6	6954.9
0°	2928.3	3531.9	4108.9	4619.6	5080.6	5496.8	5879.8	6211.5	6496.7	6747.1	6961.0
-2.5°	2921.7	3524.3	4100.9	4611.8	5072.9	5489.2	5872.1	6204.3	6489.9	6740.6	6954.9
-5°	2901.7	3501.5	4076.9	4588.4	5049.8	5466.4	5849.2	6182.6	6469.6	6721.1	6936.8
-7.5°	2868.6	3463.7	4037.0	4549.6	5011.4	5428.5	5811.2	6146.7	6436.0	6688.9	6906.7
-10°	2822.4	3410.9	3981.3	4495.5	4958.0	5375.8	5758.4	6096.9	6389.3	6644.3	6865.2
-12.5°	2763.3	3343.3	3910.1	4426.4	4889.7	5308.6	5691.0	6033.4	6329.9	6587.6	6812.5
-15°	2691.4	3261.3	3823.8	4342.6	4807.0	5227.2	5609.5	5956.7	6258.3	6519.4	6749.2
-17.5°	2607.1	3165.0	3722.5	4244.4	4710.3	5132.1	5514.4	5865.4	6169.1	6432.3	6663.8
-20°	2510.5	3054.9	3606.8	4132.3	4597.8	5017.6	5398.4	5748.2	6059.4	6330.3	6567.1



REPORT NUMBER: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2402.0	2931.3	3474.5	3993.4	4461.0	4883.5	5267.2	5617.7	5937.4	6217.3	6455.1
-25°	2290.4	2798.6	3324.5	3836.9	4310.2	4736.0	5123.1	5472.8	5792.2	6074.7	6322.6
-27.5°	2177.3	2653.9	3160.8	3666.2	4146.1	4570.8	4954.6	5304.5	5625.8	5920.1	6175.1
-30°	2054.9	2497.3	2984.0	3479.8	3951.2	4379.7	4768.7	5124.1	5443.5	5735.9	5999.0
-32.5°	1923.5	2331.2	2798.6	3273.7	3737.8	4175.9	4565.5	4916.5	5238.5	5534.5	5802.9
-35°	1796.0	2177.3	2603.4	3054.9	3510.6	3940.9	4333.9	4692.7	5016.6	5308.1	5578.4
-37.5°	1681.4	2014.4	2397.1	2827.2	3261.3	3684.5	4088.2	4440.6	4766.6	5067.1	5331.4
-40°	1560.7	1843.1	2202.9	2592.3	3000.0	3410.9	3801.2	4169.7	4494.5	4791.5	5067.1
-42.5°	1436.7	1703.5	2007.7	2346.9	2733.6	3118.7	3501.5	3860.0	4196.2	4494.5	4766.6
-45°	1326.6	1559.1	1812.3	2126.7	2459.3	2819.2	3178.5	3531.9	3860.0	4169.7	4440.6
-47.5°	1212.2	1415.7	1649.4	1899.2	2198.8	2515.8	2847.9	3178.5	3501.5	3801.2	4088.2
-50°	1100.1	1286.3	1481.1	1704.0	1946.9	2222.9	2515.8	2819.2	3118.7	3410.9	3684.5
-52.5°	1003.5	1152.9	1331.2	1517.3	1722.3	1946.9	2198.8	2459.3	2733.6	3000.0	3261.3
-55°	904.0	1038.4	1182.7	1346.2	1517.3	1704.0	1899.2	2126.7	2346.9	2592.3	2827.2
-57.5°	817.5	927.2	1050.1	1182.7	1331.2	1481.1	1649.4	1812.3	2007.7	2202.9	2397.1
-60°	738.0	826.3	927.2	1038.4	1152.9	1286.3	1415.7	1559.1	1703.5	1843.1	2014.4
-62.5°	658.5	738.0	817.5	904.0	1003.5	1100.1	1212.2	1326.6	1436.7	1560.7	1681.4
-65°	585.6	650.8	720.5	791.2	860.0	945.6	1030.6	1112.7	1209.3	1304.8	1395.9
-67.5°	511.4	570.2	627.8	685.6	747.6	807.7	865.9	939.1	1009.9	1077.6	1146.8
-70°	433.1	488.0	539.8	589.7	638.3	687.2	738.9	788.6	836.3	886.6	943.7
-72.5°	353.2	401.3	448.4	494.2	536.9	578.1	617.9	656.2	695.8	735.6	773.5
-75°	276.6	314.2	354.1	393.4	431.5	468.5	503.9	536.7	568.2	598.2	626.7
-77.5°	202.5	233.9	264.4	294.2	323.6	354.3	384.0	412.6	440.0	466.1	491.0
-80°	136.1	153.3	177.4	201.2	224.4	246.7	268.3	289.0	308.9	328.8	348.6
-82.5°	84.6	97.5	110.1	122.4	134.3	145.8	158.1	173.6	188.5	202.7	216.2
-85°	38.3	41.5	49.8	58.0	65.9	73.6	81.0	88.1	94.9	101.4	107.5
-87.5°	19.2	20.7	22.3	23.8	25.3	26.7	28.0	29.3	30.6	31.8	32.9
-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: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-LAM-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°	34.0	35.0	35.9	36.8	37.6	38.3	39.0	39.6	40.1	40.5	40.9
85°	113.4	118.8	123.9	128.7	133.0	137.0	140.6	143.7	146.5	148.8	150.8
82.5°	228.9	240.9	252.1	262.5	272.0	280.7	288.5	295.5	301.5	306.7	310.9
80°	367.4	385.0	401.5	416.7	430.8	443.6	455.1	465.3	474.2	481.8	488.0
77.5°	513.8	534.8	554.5	572.8	589.7	605.0	618.8	631.1	641.8	650.8	658.3
75°	653.7	680.1	707.0	732.0	755.0	776.0	794.9	811.7	826.3	838.8	849.0
72.5°	809.3	843.1	877.0	915.5	951.0	983.4	1012.5	1038.4	1061.0	1080.2	1096.0
70°	997.8	1048.7	1096.4	1145.1	1196.7	1243.8	1286.3	1324.1	1357.0	1385.0	1408.1
67.5°	1224.1	1297.0	1365.3	1428.8	1494.9	1559.1	1616.9	1668.3	1713.2	1751.4	1782.8
65°	1488.9	1586.6	1678.2	1763.5	1843.1	1936.2	2020.2	2094.9	2160.1	2215.6	2261.3
62.5°	1796.0	1923.5	2054.9	2177.3	2290.4	2402.0	2510.5	2607.1	2691.4	2763.3	2822.4
60°	2177.3	2331.2	2497.3	2653.9	2798.6	2931.3	3054.9	3165.0	3261.3	3343.3	3410.9
57.5°	2603.4	2798.6	2984.0	3160.8	3324.5	3474.5	3606.8	3722.5	3823.8	3910.1	3981.3
55°	3054.9	3273.7	3479.8	3666.2	3836.9	3993.4	4132.3	4244.4	4342.6	4426.4	4495.5
52.5°	3510.6	3737.8	3951.2	4146.1	4310.2	4461.0	4597.8	4710.3	4807.0	4889.7	4958.0
50°	3940.9	4175.9	4379.7	4570.8	4736.0	4883.5	5017.6	5132.1	5227.2	5308.6	5375.8
47.5°	4333.9	4565.5	4768.7	4954.6	5123.1	5267.2	5398.4	5514.4	5609.5	5691.0	5758.4
45°	4692.7	4916.5	5124.1	5304.5	5472.8	5617.7	5748.2	5865.4	5956.7	6033.4	6096.9
42.5°	5016.6	5238.5	5443.5	5625.8	5792.2	5937.4	6059.4	6169.1	6258.3	6329.9	6389.3
40°	5308.1	5534.5	5735.9	5920.1	6074.7	6217.3	6330.3	6432.3	6519.4	6587.6	6644.3
37.5°	5578.4	5802.9	5999.0	6175.1	6322.6	6455.1	6567.1	6663.8	6749.2	6812.5	6865.2
35°	5825.4	6038.8	6232.8	6394.2	6540.4	6665.2	6775.5	6864.7	6944.0	7004.3	7052.3
32.5°	6038.8	6250.5	6430.5	6589.4	6732.2	6848.6	6954.4	7036.0	7108.0	7166.0	7210.7
30°	6232.8	6430.5	6605.9	6763.4	6893.4	7006.8	7102.0	7181.8	7248.3	7303.7	7342.9
27.5°	6394.2	6589.4	6763.4	6908.5	7032.9	7142.1	7229.2	7306.1	7364.1	7415.1	7448.9
25°	6540.4	6732.2	6893.4	7032.9	7153.7	7253.4	7336.4	7406.0	7457.5	7501.1	7526.2
22.5°	6665.2	6848.6	7006.8	7142.1	7253.4	7346.6	7424.8	7483.7	7525.8	7552.2	7567.1
20°	6775.5	6954.4	7102.0	7229.2	7336.4	7424.8	7492.6	7536.2	7565.5	7572.8	7577.0
17.5°	6864.7	7036.0	7181.8	7306.1	7406.0	7483.7	7536.2	7566.9	7575.7	7574.1	7569.8
15°	6944.0	7108.0	7248.3	7364.1	7457.5	7525.8	7565.5	7575.7	7573.1	7564.2	7550.6
12.5°	7004.3	7166.0	7303.7	7415.1	7501.1	7552.2	7572.8	7574.1	7564.2	7547.3	7527.9
10°	7052.3	7210.7	7342.9	7448.9	7526.2	7567.1	7577.0	7569.8	7550.6	7527.9	7506.3
7.5°	7090.3	7246.1	7374.2	7475.8	7542.6	7571.7	7573.8	7560.2	7537.1	7511.3	7488.0
5°	7117.8	7271.8	7396.9	7495.5	7554.7	7575.0	7571.5	7552.6	7525.9	7498.9	7477.7
2.5°	7134.4	7287.4	7410.7	7507.5	7562.0	7577.1	7570.0	7547.9	7518.8	7490.9	7470.8
0°	7140.0	7292.6	7415.3	7511.5	7564.5	7577.8	7569.5	7546.3	7516.4	7488.2	7468.4
-2.5°	7134.4	7287.4	7410.7	7507.5	7562.0	7577.1	7570.0	7547.9	7518.8	7490.9	7470.8
-5°	7117.8	7271.8	7396.9	7495.5	7554.7	7575.0	7571.5	7552.6	7525.9	7498.9	7477.7
-7.5°	7090.3	7246.1	7374.2	7475.8	7542.6	7571.7	7573.8	7560.2	7537.1	7511.3	7488.0
-10°	7052.3	7210.7	7342.9	7448.9	7526.2	7567.1	7577.0	7569.8	7550.6	7527.9	7506.3
-12.5°	7004.3	7166.0	7303.7	7415.1	7501.1	7552.2	7572.8	7574.1	7564.2	7547.3	7527.9
-15°	6944.0	7108.0	7248.3	7364.1	7457.5	7525.8	7565.5	7575.7	7573.1	7564.2	7550.6
-17.5°	6864.7	7036.0	7181.8	7306.1	7406.0	7483.7	7536.2	7566.9	7575.7	7574.1	7569.8
-20°	6775.5	6954.4	7102.0	7229.2	7336.4	7424.8	7492.6	7536.2	7565.5	7572.8	7577.0



REPORT NUMBER: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6665.2	6848.6	7006.8	7142.1	7253.4	7346.6	7424.8	7483.7	7525.8	7552.2	7567.1
-25°	6540.4	6732.2	6893.4	7032.9	7153.7	7253.4	7336.4	7406.0	7457.5	7501.1	7526.2
-27.5°	6394.2	6589.4	6763.4	6908.5	7032.9	7142.1	7229.2	7306.1	7364.1	7415.1	7448.9
-30°	6232.8	6430.5	6605.9	6763.4	6893.4	7006.8	7102.0	7181.8	7248.3	7303.7	7342.9
-32.5°	6038.8	6250.5	6430.5	6589.4	6732.2	6848.6	6954.4	7036.0	7108.0	7166.0	7210.7
-35°	5825.4	6038.8	6232.8	6394.2	6540.4	6665.2	6775.5	6864.7	6944.0	7004.3	7052.3
-37.5°	5578.4	5802.9	5999.0	6175.1	6322.6	6455.1	6567.1	6663.8	6749.2	6812.5	6865.2
-40°	5308.1	5534.5	5735.9	5920.1	6074.7	6217.3	6330.3	6432.3	6519.4	6587.6	6644.3
-42.5°	5016.6	5238.5	5443.5	5625.8	5792.2	5937.4	6059.4	6169.1	6258.3	6329.9	6389.3
-45°	4692.7	4916.5	5124.1	5304.5	5472.8	5617.7	5748.2	5865.4	5956.7	6033.4	6096.9
-47.5°	4333.9	4565.5	4768.7	4954.6	5123.1	5267.2	5398.4	5514.4	5609.5	5691.0	5758.4
-50°	3940.9	4175.9	4379.7	4570.8	4736.0	4883.5	5017.6	5132.1	5227.2	5308.6	5375.8
-52.5°	3510.6	3737.8	3951.2	4146.1	4310.2	4461.0	4597.8	4710.3	4807.0	4889.7	4958.0
-55°	3054.9	3273.7	3479.8	3666.2	3836.9	3993.4	4132.3	4244.4	4342.6	4426.4	4495.5
-57.5°	2603.4	2798.6	2984.0	3160.8	3324.5	3474.5	3606.8	3722.5	3823.8	3910.1	3981.3
-60°	2177.3	2331.2	2497.3	2653.9	2798.6	2931.3	3054.9	3165.0	3261.3	3343.3	3410.9
-62.5°	1796.0	1923.5	2054.9	2177.3	2290.4	2402.0	2510.5	2607.1	2691.4	2763.3	2822.4
-65°	1488.9	1586.6	1678.2	1763.5	1843.1	1936.2	2020.2	2094.9	2160.1	2215.6	2261.3
-67.5°	1224.1	1297.0	1365.3	1428.8	1494.9	1559.1	1616.9	1668.3	1713.2	1751.4	1782.8
-70°	997.8	1048.7	1096.4	1145.1	1196.7	1243.8	1286.3	1324.1	1357.0	1385.0	1408.1
-72.5°	809.3	843.1	877.0	915.5	951.0	983.4	1012.5	1038.4	1061.0	1080.2	1096.0
-75°	653.7	680.1	707.0	732.0	755.0	776.0	794.9	811.7	826.3	838.8	849.0
-77.5°	513.8	534.8	554.5	572.8	589.7	605.0	618.8	631.1	641.8	650.8	658.3
-80°	367.4	385.0	401.5	416.7	430.8	443.6	455.1	465.3	474.2	481.8	488.0
-82.5°	228.9	240.9	252.1	262.5	272.0	280.7	288.5	295.5	301.5	306.7	310.9
-85°	113.4	118.8	123.9	128.7	133.0	137.0	140.6	143.7	146.5	148.8	150.8
-87.5°	34.0	35.0	35.9	36.8	37.6	38.3	39.0	39.6	40.1	40.5	40.9
-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: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-722-U-LAM-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°	41.1	41.3	41.5	41.5	41.5	41.3	41.1	40.9	40.5	40.1	39.6
85°	152.3	153.3	154.0	154.2	154.0	153.3	152.3	150.8	148.8	146.5	143.7
82.5°	314.2	316.5	317.9	318.4	317.9	316.5	314.2	310.9	306.7	301.5	295.5
80°	492.9	496.3	498.4	499.1	498.4	496.3	492.9	488.0	481.8	474.2	465.3
77.5°	664.1	668.3	670.8	671.6	670.8	668.3	664.1	658.3	650.8	641.8	631.1
75°	856.9	862.6	866.1	867.2	866.1	862.6	856.9	849.0	838.8	826.3	811.7
72.5°	1108.3	1117.1	1122.4	1124.2	1122.4	1117.1	1108.3	1096.0	1080.2	1061.0	1038.4
70°	1426.0	1438.9	1446.6	1449.2	1446.6	1438.9	1426.0	1408.1	1385.0	1357.0	1324.1
67.5°	1807.3	1824.8	1835.4	1838.9	1835.4	1824.8	1807.3	1782.8	1751.4	1713.2	1668.3
65°	2297.0	2322.5	2337.9	2343.0	2337.9	2322.5	2297.0	2261.3	2215.6	2160.1	2094.9
62.5°	2868.6	2901.7	2921.7	2928.3	2921.7	2901.7	2868.6	2822.4	2763.3	2691.4	2607.1
60°	3463.7	3501.5	3524.3	3531.9	3524.3	3501.5	3463.7	3410.9	3343.3	3261.3	3165.0
57.5°	4037.0	4076.9	4100.9	4108.9	4100.9	4076.9	4037.0	3981.3	3910.1	3823.8	3722.5
55°	4549.6	4588.4	4611.8	4619.6	4611.8	4588.4	4549.6	4495.5	4426.4	4342.6	4244.4
52.5°	5011.4	5049.8	5072.9	5080.6	5072.9	5049.8	5011.4	4958.0	4889.7	4807.0	4710.3
50°	5428.5	5466.4	5489.2	5496.8	5489.2	5466.4	5428.5	5375.8	5308.6	5227.2	5132.1
47.5°	5811.2	5849.2	5872.1	5879.8	5872.1	5849.2	5811.2	5758.4	5691.0	5609.5	5514.4
45°	6146.7	6182.6	6204.3	6211.5	6204.3	6182.6	6146.7	6096.9	6033.4	5956.7	5865.4
42.5°	6436.0	6469.6	6489.9	6496.7	6489.9	6469.6	6436.0	6389.3	6329.9	6258.3	6169.1
40°	6688.9	6721.1	6740.6	6747.1	6740.6	6721.1	6688.9	6644.3	6587.6	6519.4	6432.3
37.5°	6906.7	6936.8	6954.9	6961.0	6954.9	6936.8	6906.7	6865.2	6812.5	6749.2	6663.8
35°	7090.3	7117.8	7134.4	7140.0	7134.4	7117.8	7090.3	7052.3	7004.3	6944.0	6864.7
32.5°	7246.1	7271.8	7287.4	7292.6	7287.4	7271.8	7246.1	7210.7	7166.0	7108.0	7036.0
30°	7374.2	7396.9	7410.7	7415.3	7410.7	7396.9	7374.2	7342.9	7303.7	7248.3	7181.8
27.5°	7475.8	7495.5	7507.5	7511.5	7507.5	7495.5	7475.8	7448.9	7415.1	7364.1	7306.1
25°	7542.6	7554.7	7562.0	7564.5	7562.0	7554.7	7542.6	7526.2	7501.1	7457.5	7406.0
22.5°	7571.7	7575.0	7577.1	7577.8	7577.1	7575.0	7571.7	7567.1	7552.2	7525.8	7483.7
20°	7573.8	7571.5	7570.0	7569.5	7570.0	7571.5	7573.8	7577.0	7572.8	7565.5	7536.2
17.5°	7560.2	7552.6	7547.9	7546.3	7547.9	7552.6	7560.2	7569.8	7574.1	7575.7	7566.9
15°	7537.1	7525.9	7518.8	7516.4	7518.8	7525.9	7537.1	7550.6	7564.2	7573.1	7575.7
12.5°	7511.3	7498.9	7490.9	7488.2	7490.9	7498.9	7511.3	7527.9	7547.3	7564.2	7574.1
10°	7488.0	7477.7	7470.8	7468.4	7470.8	7477.7	7488.0	7506.3	7527.9	7550.6	7569.8
7.5°	7473.1	7463.7	7458.6	7456.7	7458.6	7463.7	7473.1	7488.0	7511.3	7537.1	7560.2
5°	7463.7	7454.4	7446.6	7443.5	7446.6	7454.4	7463.7	7477.7	7498.9	7525.9	7552.6
2.5°	7458.6	7446.6	7434.8	7428.6	7434.8	7446.6	7458.6	7470.8	7490.9	7518.8	7547.9
0°	7456.7	7443.5	7428.6	7430.2	7428.6	7443.5	7456.7	7468.4	7488.2	7516.4	7546.3
-2.5°	7458.6	7446.6	7434.8	7428.6	7434.8	7446.6	7458.6	7470.8	7490.9	7518.8	7547.9
-5°	7463.7	7454.4	7446.6	7443.5	7446.6	7454.4	7463.7	7477.7	7498.9	7525.9	7552.6
-7.5°	7473.1	7463.7	7458.6	7456.7	7458.6	7463.7	7473.1	7488.0	7511.3	7537.1	7560.2
-10°	7488.0	7477.7	7470.8	7468.4	7470.8	7477.7	7488.0	7506.3	7527.9	7550.6	7569.8
-12.5°	7511.3	7498.9	7490.9	7488.2	7490.9	7498.9	7511.3	7527.9	7547.3	7564.2	7574.1
-15°	7537.1	7525.9	7518.8	7516.4	7518.8	7525.9	7537.1	7550.6	7564.2	7573.1	7575.7
-17.5°	7560.2	7552.6	7547.9	7546.3	7547.9	7552.6	7560.2	7569.8	7574.1	7575.7	7566.9
-20°	7573.8	7571.5	7570.0	7569.5	7570.0	7571.5	7573.8	7577.0	7572.8	7565.5	7536.2



REPORT NUMBER: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	7571.7	7575.0	7577.1	7577.8	7577.1	7575.0	7571.7	7567.1	7552.2	7525.8	7483.7
-25°	7542.6	7554.7	7562.0	7564.5	7562.0	7554.7	7542.6	7526.2	7501.1	7457.5	7406.0
-27.5°	7475.8	7495.5	7507.5	7511.5	7507.5	7495.5	7475.8	7448.9	7415.1	7364.1	7306.1
-30°	7374.2	7396.9	7410.7	7415.3	7410.7	7396.9	7374.2	7342.9	7303.7	7248.3	7181.8
-32.5°	7246.1	7271.8	7287.4	7292.6	7287.4	7271.8	7246.1	7210.7	7166.0	7108.0	7036.0
-35°	7090.3	7117.8	7134.4	7140.0	7134.4	7117.8	7090.3	7052.3	7004.3	6944.0	6864.7
-37.5°	6906.7	6936.8	6954.9	6961.0	6954.9	6936.8	6906.7	6865.2	6812.5	6749.2	6663.8
-40°	6688.9	6721.1	6740.6	6747.1	6740.6	6721.1	6688.9	6644.3	6587.6	6519.4	6432.3
-42.5°	6436.0	6469.6	6489.9	6496.7	6489.9	6469.6	6436.0	6389.3	6329.9	6258.3	6169.1
-45°	6146.7	6182.6	6204.3	6211.5	6204.3	6182.6	6146.7	6096.9	6033.4	5956.7	5865.4
-47.5°	5811.2	5849.2	5872.1	5879.8	5872.1	5849.2	5811.2	5758.4	5691.0	5609.5	5514.4
-50°	5428.5	5466.4	5489.2	5496.8	5489.2	5466.4	5428.5	5375.8	5308.6	5227.2	5132.1
-52.5°	5011.4	5049.8	5072.9	5080.6	5072.9	5049.8	5011.4	4958.0	4889.7	4807.0	4710.3
-55°	4549.6	4588.4	4611.8	4619.6	4611.8	4588.4	4549.6	4495.5	4426.4	4342.6	4244.4
-57.5°	4037.0	4076.9	4100.9	4108.9	4100.9	4076.9	4037.0	3981.3	3910.1	3823.8	3722.5
-60°	3463.7	3501.5	3524.3	3531.9	3524.3	3501.5	3463.7	3410.9	3343.3	3261.3	3165.0
-62.5°	2868.6	2901.7	2921.7	2928.3	2921.7	2901.7	2868.6	2822.4	2763.3	2691.4	2607.1
-65°	2297.0	2322.5	2337.9	2343.0	2337.9	2322.5	2297.0	2261.3	2215.6	2160.1	2094.9
-67.5°	1807.3	1824.8	1835.4	1838.9	1835.4	1824.8	1807.3	1782.8	1751.4	1713.2	1668.3
-70°	1426.0	1438.9	1446.6	1449.2	1446.6	1438.9	1426.0	1408.1	1385.0	1357.0	1324.1
-72.5°	1108.3	1117.1	1122.4	1124.2	1122.4	1117.1	1108.3	1096.0	1080.2	1061.0	1038.4
-75°	856.9	862.6	866.1	867.2	866.1	862.6	856.9	849.0	838.8	826.3	811.7
-77.5°	664.1	668.3	670.8	671.6	670.8	668.3	664.1	658.3	650.8	641.8	631.1
-80°	492.9	496.3	498.4	499.1	498.4	496.3	492.9	488.0	481.8	474.2	465.3
-82.5°	314.2	316.5	317.9	318.4	317.9	316.5	314.2	310.9	306.7	301.5	295.5
-85°	152.3	153.3	154.0	154.2	154.0	153.3	152.3	150.8	148.8	146.5	143.7
-87.5°	41.1	41.3	41.5	41.5	41.5	41.3	41.1	40.9	40.5	40.1	39.6
-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: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

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°	39.0	38.3	37.6	36.8	35.9	35.0	34.0	32.9	31.8	30.6	29.3
85°	140.6	137.0	133.0	128.7	123.9	118.8	113.4	107.5	101.4	94.9	88.1
82.5°	288.5	280.7	272.0	262.5	252.1	240.9	228.9	216.2	202.7	188.5	173.6
80°	455.1	443.6	430.8	416.7	401.5	385.0	367.4	348.6	328.8	308.9	289.0
77.5°	618.8	605.0	589.7	572.8	554.5	534.8	513.8	491.0	466.1	440.0	412.6
75°	794.9	776.0	755.0	732.0	707.0	680.1	653.7	626.7	598.2	568.2	536.7
72.5°	1012.5	983.4	951.0	915.5	877.0	843.1	809.3	773.5	735.6	695.8	656.2
70°	1286.3	1243.8	1196.7	1145.1	1096.4	1048.7	997.8	943.7	886.6	836.3	788.6
67.5°	1616.9	1559.1	1494.9	1428.8	1365.3	1297.0	1224.1	1146.8	1077.6	1009.9	939.1
65°	2020.2	1936.2	1843.1	1763.5	1678.2	1586.6	1488.9	1395.9	1304.8	1209.3	1112.7
62.5°	2510.5	2402.0	2290.4	2177.3	2054.9	1923.5	1796.0	1681.4	1560.7	1436.7	1326.6
60°	3054.9	2931.3	2798.6	2653.9	2497.3	2331.2	2177.3	2014.4	1843.1	1703.5	1559.1
57.5°	3606.8	3474.5	3324.5	3160.8	2984.0	2798.6	2603.4	2397.1	2202.9	2007.7	1812.3
55°	4132.3	3993.4	3836.9	3666.2	3479.8	3273.7	3054.9	2827.2	2592.3	2346.9	2126.7
52.5°	4597.8	4461.0	4310.2	4146.1	3951.2	3737.8	3510.6	3261.3	3000.0	2733.6	2459.3
50°	5017.6	4883.5	4736.0	4570.8	4379.7	4175.9	3940.9	3684.5	3410.9	3118.7	2819.2
47.5°	5398.4	5267.2	5123.1	4954.6	4768.7	4565.5	4333.9	4088.2	3801.2	3501.5	3178.5
45°	5748.2	5617.7	5472.8	5304.5	5124.1	4916.5	4692.7	4440.6	4169.7	3860.0	3531.9
42.5°	6059.4	5937.4	5792.2	5625.8	5443.5	5238.5	5016.6	4766.6	4494.5	4196.2	3860.0
40°	6330.3	6217.3	6074.7	5920.1	5735.9	5534.5	5308.1	5067.1	4791.5	4494.5	4169.7
37.5°	6567.1	6455.1	6322.6	6175.1	5999.0	5802.9	5578.4	5331.4	5067.1	4766.6	4440.6
35°	6775.5	6665.2	6540.4	6394.2	6232.8	6038.8	5825.4	5578.4	5308.1	5016.6	4692.7
32.5°	6954.4	6848.6	6732.2	6589.4	6430.5	6250.5	6038.8	5802.9	5534.5	5238.5	4916.5
30°	7102.0	7006.8	6893.4	6763.4	6605.9	6430.5	6232.8	5999.0	5735.9	5443.5	5124.1
27.5°	7229.2	7142.1	7032.9	6908.5	6763.4	6589.4	6394.2	6175.1	5920.1	5625.8	5304.5
25°	7336.4	7253.4	7153.7	7032.9	6893.4	6732.2	6540.4	6322.6	6074.7	5792.2	5472.8
22.5°	7424.8	7346.6	7253.4	7142.1	7006.8	6848.6	6665.2	6455.1	6217.3	5937.4	5617.7
20°	7492.6	7424.8	7336.4	7229.2	7102.0	6954.4	6775.5	6567.1	6330.3	6059.4	5748.2
17.5°	7536.2	7483.7	7406.0	7306.1	7181.8	7036.0	6864.7	6663.8	6432.3	6169.1	5865.4
15°	7565.5	7525.8	7457.5	7364.1	7248.3	7108.0	6944.0	6749.2	6519.4	6258.3	5956.7
12.5°	7572.8	7552.2	7501.1	7415.1	7303.7	7166.0	7004.3	6812.5	6587.6	6329.9	6033.4
10°	7577.0	7567.1	7526.2	7448.9	7342.9	7210.7	7052.3	6865.2	6644.3	6389.3	6096.9
7.5°	7573.8	7571.7	7542.6	7475.8	7374.2	7246.1	7090.3	6906.7	6688.9	6436.0	6146.7
5°	7571.5	7575.0	7554.7	7495.5	7396.9	7271.8	7117.8	6936.8	6721.1	6469.6	6182.6
2.5°	7570.0	7577.1	7562.0	7507.5	7410.7	7287.4	7134.4	6954.9	6740.6	6489.9	6204.3
0°	7569.5	7577.8	7564.5	7511.5	7415.3	7292.6	7140.0	6961.0	6747.1	6496.7	6211.5
-2.5°	7570.0	7577.1	7562.0	7507.5	7410.7	7287.4	7134.4	6954.9	6740.6	6489.9	6204.3
-5°	7571.5	7575.0	7554.7	7495.5	7396.9	7271.8	7117.8	6936.8	6721.1	6469.6	6182.6
-7.5°	7573.8	7571.7	7542.6	7475.8	7374.2	7246.1	7090.3	6906.7	6688.9	6436.0	6146.7
-10°	7577.0	7567.1	7526.2	7448.9	7342.9	7210.7	7052.3	6865.2	6644.3	6389.3	6096.9
-12.5°	7572.8	7552.2	7501.1	7415.1	7303.7	7166.0	7004.3	6812.5	6587.6	6329.9	6033.4
-15°	7565.5	7525.8	7457.5	7364.1	7248.3	7108.0	6944.0	6749.2	6519.4	6258.3	5956.7
-17.5°	7536.2	7483.7	7406.0	7306.1	7181.8	7036.0	6864.7	6663.8	6432.3	6169.1	5865.4
-20°	7492.6	7424.8	7336.4	7229.2	7102.0	6954.4	6775.5	6567.1	6330.3	6059.4	5748.2

Classified

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

Scaled Data Report



REPORT NUMBER: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	7424.8	7346.6	7253.4	7142.1	7006.8	6848.6	6665.2	6455.1	6217.3	5937.4	5617.7
-25°	7336.4	7253.4	7153.7	7032.9	6893.4	6732.2	6540.4	6322.6	6074.7	5792.2	5472.8
-27.5°	7229.2	7142.1	7032.9	6908.5	6763.4	6589.4	6394.2	6175.1	5920.1	5625.8	5304.5
-30°	7102.0	7006.8	6893.4	6763.4	6605.9	6430.5	6232.8	5999.0	5735.9	5443.5	5124.1
-32.5°	6954.4	6848.6	6732.2	6589.4	6430.5	6250.5	6038.8	5802.9	5534.5	5238.5	4916.5
-35°	6775.5	6665.2	6540.4	6394.2	6232.8	6038.8	5825.4	5578.4	5308.1	5016.6	4692.7
-37.5°	6567.1	6455.1	6322.6	6175.1	5999.0	5802.9	5578.4	5331.4	5067.1	4766.6	4440.6
-40°	6330.3	6217.3	6074.7	5920.1	5735.9	5534.5	5308.1	5067.1	4791.5	4494.5	4169.7
-42.5°	6059.4	5937.4	5792.2	5625.8	5443.5	5238.5	5016.6	4766.6	4494.5	4196.2	3860.0
-45°	5748.2	5617.7	5472.8	5304.5	5124.1	4916.5	4692.7	4440.6	4169.7	3860.0	3531.9
-47.5°	5398.4	5267.2	5123.1	4954.6	4768.7	4565.5	4333.9	4088.2	3801.2	3501.5	3178.5
-50°	5017.6	4883.5	4736.0	4570.8	4379.7	4175.9	3940.9	3684.5	3410.9	3118.7	2819.2
-52.5°	4597.8	4461.0	4310.2	4146.1	3951.2	3737.8	3510.6	3261.3	3000.0	2733.6	2459.3
-55°	4132.3	3993.4	3836.9	3666.2	3479.8	3273.7	3054.9	2827.2	2592.3	2346.9	2126.7
-57.5°	3606.8	3474.5	3324.5	3160.8	2984.0	2798.6	2603.4	2397.1	2202.9	2007.7	1812.3
-60°	3054.9	2931.3	2798.6	2653.9	2497.3	2331.2	2177.3	2014.4	1843.1	1703.5	1559.1
-62.5°	2510.5	2402.0	2290.4	2177.3	2054.9	1923.5	1796.0	1681.4	1560.7	1436.7	1326.6
-65°	2020.2	1936.2	1843.1	1763.5	1678.2	1586.6	1488.9	1395.9	1304.8	1209.3	1112.7
-67.5°	1616.9	1559.1	1494.9	1428.8	1365.3	1297.0	1224.1	1146.8	1077.6	1009.9	939.1
-70°	1286.3	1243.8	1196.7	1145.1	1096.4	1048.7	997.8	943.7	886.6	836.3	788.6
-72.5°	1012.5	983.4	951.0	915.5	877.0	843.1	809.3	773.5	735.6	695.8	656.2
-75°	794.9	776.0	755.0	732.0	707.0	680.1	653.7	626.7	598.2	568.2	536.7
-77.5°	618.8	605.0	589.7	572.8	554.5	534.8	513.8	491.0	466.1	440.0	412.6
-80°	455.1	443.6	430.8	416.7	401.5	385.0	367.4	348.6	328.8	308.9	289.0
-82.5°	288.5	280.7	272.0	262.5	252.1	240.9	228.9	216.2	202.7	188.5	173.6
-85°	140.6	137.0	133.0	128.7	123.9	118.8	113.4	107.5	101.4	94.9	88.1
-87.5°	39.0	38.3	37.6	36.8	35.9	35.0	34.0	32.9	31.8	30.6	29.3
-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: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

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°	28.0	26.7	25.3	23.8	22.3	20.7	19.2	17.5	15.9	14.2	12.5
85°	81.0	73.6	65.9	58.0	49.8	41.5	38.3	35.0	31.7	28.4	24.9
82.5°	158.1	145.8	134.3	122.4	110.1	97.5	84.6	71.4	57.9	44.1	37.3
80°	268.3	246.7	224.4	201.2	177.4	153.3	136.1	118.5	100.6	82.3	63.7
77.5°	384.0	354.3	323.6	294.2	264.4	233.9	202.5	170.5	143.0	120.2	97.0
75°	503.9	468.5	431.5	393.4	354.1	314.2	276.6	238.2	199.1	159.4	130.0
72.5°	617.9	578.1	536.9	494.2	448.4	401.3	353.2	305.3	259.8	213.5	166.5
70°	738.9	687.2	638.3	589.7	539.8	488.0	433.1	377.0	319.9	267.0	213.5
67.5°	865.9	807.7	747.6	685.6	627.8	570.2	511.4	449.0	385.0	319.9	259.8
65°	1030.6	945.6	860.0	791.2	720.5	650.8	585.6	519.0	449.0	377.0	305.3
62.5°	1212.2	1100.1	1003.5	904.0	817.5	738.0	658.5	585.6	511.4	433.1	353.2
60°	1415.7	1286.3	1152.9	1038.4	927.2	826.3	738.0	650.8	570.2	488.0	401.3
57.5°	1649.4	1481.1	1331.2	1182.7	1050.1	927.2	817.5	720.5	627.8	539.8	448.4
55°	1899.2	1704.0	1517.3	1346.2	1182.7	1038.4	904.0	791.2	685.6	589.7	494.2
52.5°	2198.8	1946.9	1722.3	1517.3	1331.2	1152.9	1003.5	860.0	747.6	638.3	536.9
50°	2515.8	2222.9	1946.9	1704.0	1481.1	1286.3	1100.1	945.6	807.7	687.2	578.1
47.5°	2847.9	2515.8	2198.8	1899.2	1649.4	1415.7	1212.2	1030.6	865.9	738.9	617.9
45°	3178.5	2819.2	2459.3	2126.7	1812.3	1559.1	1326.6	1112.7	939.1	788.6	656.2
42.5°	3501.5	3118.7	2733.6	2346.9	2007.7	1703.5	1436.7	1209.3	1009.9	836.3	695.8
40°	3801.2	3410.9	3000.0	2592.3	2202.9	1843.1	1560.7	1304.8	1077.6	886.6	735.6
37.5°	4088.2	3684.5	3261.3	2827.2	2397.1	2014.4	1681.4	1395.9	1146.8	943.7	773.5
35°	4333.9	3940.9	3510.6	3054.9	2603.4	2177.3	1796.0	1488.9	1224.1	997.8	809.3
32.5°	4565.5	4175.9	3737.8	3273.7	2798.6	2331.2	1923.5	1586.6	1297.0	1048.7	843.1
30°	4768.7	4379.7	3951.2	3479.8	2984.0	2497.3	2054.9	1678.2	1365.3	1096.4	877.0
27.5°	4954.6	4570.8	4146.1	3666.2	3160.8	2653.9	2177.3	1763.5	1428.8	1145.1	915.5
25°	5123.1	4736.0	4310.2	3836.9	3324.5	2798.6	2290.4	1843.1	1494.9	1196.7	951.0
22.5°	5267.2	4883.5	4461.0	3993.4	3474.5	2931.3	2402.0	1936.2	1559.1	1243.8	983.4
20°	5398.4	5017.6	4597.8	4132.3	3606.8	3054.9	2510.5	2020.2	1616.9	1286.3	1012.5
17.5°	5514.4	5132.1	4710.3	4244.4	3722.5	3165.0	2607.1	2094.9	1668.3	1324.1	1038.4
15°	5609.5	5227.2	4807.0	4342.6	3823.8	3261.3	2691.4	2160.1	1713.2	1357.0	1061.0
12.5°	5691.0	5308.6	4889.7	4426.4	3910.1	3343.3	2763.3	2215.6	1751.4	1385.0	1080.2
10°	5758.4	5375.8	4958.0	4495.5	3981.3	3410.9	2822.4	2261.3	1782.8	1408.1	1096.0
7.5°	5811.2	5428.5	5011.4	4549.6	4037.0	3463.7	2868.6	2297.0	1807.3	1426.0	1108.3
5°	5849.2	5466.4	5049.8	4588.4	4076.9	3501.5	2901.7	2322.5	1824.8	1438.9	1117.1
2.5°	5872.1	5489.2	5072.9	4611.8	4100.9	3524.3	2921.7	2337.9	1835.4	1446.6	1122.4
0°	5879.8	5496.8	5080.6	4619.6	4108.9	3531.9	2928.3	2343.0	1838.9	1449.2	1124.2
-2.5°	5872.1	5489.2	5072.9	4611.8	4100.9	3524.3	2921.7	2337.9	1835.4	1446.6	1122.4
-5°	5849.2	5466.4	5049.8	4588.4	4076.9	3501.5	2901.7	2322.5	1824.8	1438.9	1117.1
-7.5°	5811.2	5428.5	5011.4	4549.6	4037.0	3463.7	2868.6	2297.0	1807.3	1426.0	1108.3
-10°	5758.4	5375.8	4958.0	4495.5	3981.3	3410.9	2822.4	2261.3	1782.8	1408.1	1096.0
-12.5°	5691.0	5308.6	4889.7	4426.4	3910.1	3343.3	2763.3	2215.6	1751.4	1385.0	1080.2
-15°	5609.5	5227.2	4807.0	4342.6	3823.8	3261.3	2691.4	2160.1	1713.2	1357.0	1061.0
-17.5°	5514.4	5132.1	4710.3	4244.4	3722.5	3165.0	2607.1	2094.9	1668.3	1324.1	1038.4
-20°	5398.4	5017.6	4597.8	4132.3	3606.8	3054.9	2510.5	2020.2	1616.9	1286.3	1012.5



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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°	5267.2	4883.5	4461.0	3993.4	3474.5	2931.3	2402.0	1936.2	1559.1	1243.8	983.4
-25°	5123.1	4736.0	4310.2	3836.9	3324.5	2798.6	2290.4	1843.1	1494.9	1196.7	951.0
-27.5°	4954.6	4570.8	4146.1	3666.2	3160.8	2653.9	2177.3	1763.5	1428.8	1145.1	915.5
-30°	4768.7	4379.7	3951.2	3479.8	2984.0	2497.3	2054.9	1678.2	1365.3	1096.4	877.0
-32.5°	4565.5	4175.9	3737.8	3273.7	2798.6	2331.2	1923.5	1586.6	1297.0	1048.7	843.1
-35°	4333.9	3940.9	3510.6	3054.9	2603.4	2177.3	1796.0	1488.9	1224.1	997.8	809.3
-37.5°	4088.2	3684.5	3261.3	2827.2	2397.1	2014.4	1681.4	1395.9	1146.8	943.7	773.5
-40°	3801.2	3410.9	3000.0	2592.3	2202.9	1843.1	1560.7	1304.8	1077.6	886.6	735.6
-42.5°	3501.5	3118.7	2733.6	2346.9	2007.7	1703.5	1436.7	1209.3	1009.9	836.3	695.8
-45°	3178.5	2819.2	2459.3	2126.7	1812.3	1559.1	1326.6	1112.7	939.1	788.6	656.2
-47.5°	2847.9	2515.8	2198.8	1899.2	1649.4	1415.7	1212.2	1030.6	865.9	738.9	617.9
-50°	2515.8	2222.9	1946.9	1704.0	1481.1	1286.3	1100.1	945.6	807.7	687.2	578.1
-52.5°	2198.8	1946.9	1722.3	1517.3	1331.2	1152.9	1003.5	860.0	747.6	638.3	536.9
-55°	1899.2	1704.0	1517.3	1346.2	1182.7	1038.4	904.0	791.2	685.6	589.7	494.2
-57.5°	1649.4	1481.1	1331.2	1182.7	1050.1	927.2	817.5	720.5	627.8	539.8	448.4
-60°	1415.7	1286.3	1152.9	1038.4	927.2	826.3	738.0	650.8	570.2	488.0	401.3
-62.5°	1212.2	1100.1	1003.5	904.0	817.5	738.0	658.5	585.6	511.4	433.1	353.2
-65°	1030.6	945.6	860.0	791.2	720.5	650.8	585.6	519.0	449.0	377.0	305.3
-67.5°	865.9	807.7	747.6	685.6	627.8	570.2	511.4	449.0	385.0	319.9	259.8
-70°	738.9	687.2	638.3	589.7	539.8	488.0	433.1	377.0	319.9	267.0	213.5
-72.5°	617.9	578.1	536.9	494.2	448.4	401.3	353.2	305.3	259.8	213.5	166.5
-75°	503.9	468.5	431.5	393.4	354.1	314.2	276.6	238.2	199.1	159.4	130.0
-77.5°	384.0	354.3	323.6	294.2	264.4	233.9	202.5	170.5	143.0	120.2	97.0
-80°	268.3	246.7	224.4	201.2	177.4	153.3	136.1	118.5	100.6	82.3	63.7
-82.5°	158.1	145.8	134.3	122.4	110.1	97.5	84.6	71.4	57.9	44.1	37.3
-85°	81.0	73.6	65.9	58.0	49.8	41.5	38.3	35.0	31.7	28.4	24.9
-87.5°	28.0	26.7	25.3	23.8	22.3	20.7	19.2	17.5	15.9	14.2	12.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

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°	10.7	9.0	7.2	5.4	3.6	1.8	0.0
85°	21.5	17.9	14.4	10.8	7.2	3.6	0.0
82.5°	32.1	26.9	21.6	16.2	10.8	5.4	0.0
80°	44.9	35.8	28.7	21.6	14.4	7.2	0.0
77.5°	73.6	49.8	35.8	26.9	17.9	9.0	0.0
75°	102.0	73.6	44.9	32.1	21.5	10.7	0.0
72.5°	130.0	97.0	63.7	37.3	24.9	12.5	0.0
70°	159.4	120.2	82.3	44.1	28.4	14.2	0.0
67.5°	199.1	143.0	100.6	57.9	31.7	15.9	0.0
65°	238.2	170.5	118.5	71.4	35.0	17.5	0.0
62.5°	276.6	202.5	136.1	84.6	38.3	19.2	0.0
60°	314.2	233.9	153.3	97.5	41.5	20.7	0.0
57.5°	354.1	264.4	177.4	110.1	49.8	22.3	0.0
55°	393.4	294.2	201.2	122.4	58.0	23.8	0.0
52.5°	431.5	323.6	224.4	134.3	65.9	25.3	0.0
50°	468.5	354.3	246.7	145.8	73.6	26.7	0.0
47.5°	503.9	384.0	268.3	158.1	81.0	28.0	0.0
45°	536.7	412.6	289.0	173.6	88.1	29.3	0.0
42.5°	568.2	440.0	308.9	188.5	94.9	30.6	0.0
40°	598.2	466.1	328.8	202.7	101.4	31.8	0.0
37.5°	626.7	491.0	348.6	216.2	107.5	32.9	0.0
35°	653.7	513.8	367.4	228.9	113.4	34.0	0.0
32.5°	680.1	534.8	385.0	240.9	118.8	35.0	0.0
30°	707.0	554.5	401.5	252.1	123.9	35.9	0.0
27.5°	732.0	572.8	416.7	262.5	128.7	36.8	0.0
25°	755.0	589.7	430.8	272.0	133.0	37.6	0.0
22.5°	776.0	605.0	443.6	280.7	137.0	38.3	0.0
20°	794.9	618.8	455.1	288.5	140.6	39.0	0.0
17.5°	811.7	631.1	465.3	295.5	143.7	39.6	0.0
15°	826.3	641.8	474.2	301.5	146.5	40.1	0.0
12.5°	838.8	650.8	481.8	306.7	148.8	40.5	0.0
10°	849.0	658.3	488.0	310.9	150.8	40.9	0.0
7.5°	856.9	664.1	492.9	314.2	152.3	41.1	0.0
5°	862.6	668.3	496.3	316.5	153.3	41.3	0.0
2.5°	866.1	670.8	498.4	317.9	154.0	41.5	0.0
0°	867.2	671.6	499.1	318.4	154.2	41.5	0.0
-2.5°	866.1	670.8	498.4	317.9	154.0	41.5	0.0
-5°	862.6	668.3	496.3	316.5	153.3	41.3	0.0
-7.5°	856.9	664.1	492.9	314.2	152.3	41.1	0.0
-10°	849.0	658.3	488.0	310.9	150.8	40.9	0.0
-12.5°	838.8	650.8	481.8	306.7	148.8	40.5	0.0
-15°	826.3	641.8	474.2	301.5	146.5	40.1	0.0
-17.5°	811.7	631.1	465.3	295.5	143.7	39.6	0.0
-20°	794.9	618.8	455.1	288.5	140.6	39.0	0.0

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REPORT NUMBER: P645476 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-LAM-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	776.0	605.0	443.6	280.7	137.0	38.3	0.0
-25°	755.0	589.7	430.8	272.0	133.0	37.6	0.0
-27.5°	732.0	572.8	416.7	262.5	128.7	36.8	0.0
-30°	707.0	554.5	401.5	252.1	123.9	35.9	0.0
-32.5°	680.1	534.8	385.0	240.9	118.8	35.0	0.0
-35°	653.7	513.8	367.4	228.9	113.4	34.0	0.0
-37.5°	626.7	491.0	348.6	216.2	107.5	32.9	0.0
-40°	598.2	466.1	328.8	202.7	101.4	31.8	0.0
-42.5°	568.2	440.0	308.9	188.5	94.9	30.6	0.0
-45°	536.7	412.6	289.0	173.6	88.1	29.3	0.0
-47.5°	503.9	384.0	268.3	158.1	81.0	28.0	0.0
-50°	468.5	354.3	246.7	145.8	73.6	26.7	0.0
-52.5°	431.5	323.6	224.4	134.3	65.9	25.3	0.0
-55°	393.4	294.2	201.2	122.4	58.0	23.8	0.0
-57.5°	354.1	264.4	177.4	110.1	49.8	22.3	0.0
-60°	314.2	233.9	153.3	97.5	41.5	20.7	0.0
-62.5°	276.6	202.5	136.1	84.6	38.3	19.2	0.0
-65°	238.2	170.5	118.5	71.4	35.0	17.5	0.0
-67.5°	199.1	143.0	100.6	57.9	31.7	15.9	0.0
-70°	159.4	120.2	82.3	44.1	28.4	14.2	0.0
-72.5°	130.0	97.0	63.7	37.3	24.9	12.5	0.0
-75°	102.0	73.6	44.9	32.1	21.5	10.7	0.0
-77.5°	73.6	49.8	35.8	26.9	17.9	9.0	0.0
-80°	44.9	35.8	28.7	21.6	14.4	7.2	0.0
-82.5°	32.1	26.9	21.6	16.2	10.8	5.4	0.0
-85°	21.5	17.9	14.4	10.8	7.2	3.6	0.0
-87.5°	10.7	9.0	7.2	5.4	3.6	1.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)