

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: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4D-730-U-VWR-XX**

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-08
Report Number: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/7/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA4D-730-U-VWR-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N95
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

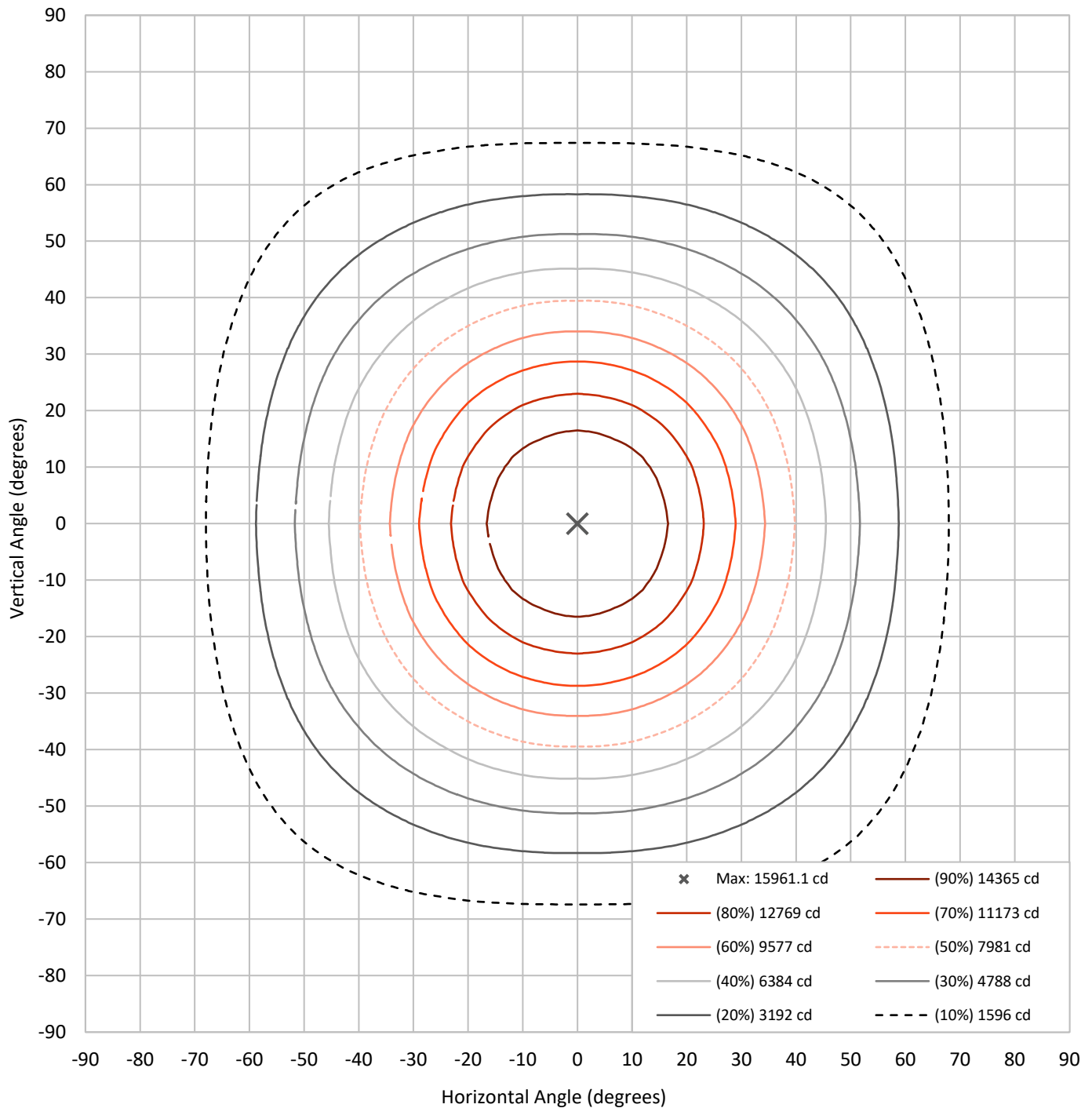
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28848.3 lumens	Max Intensity:	15961.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	79.6°H x 78.9°V	Field Angle (10%):	135.9°H x 134.8°V
Beam Lumens:	16919.7 lumens	Field Lumens:	27501.9 lumens
Beam Efficiency:	58.7%	Field Efficiency:	95.3%
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





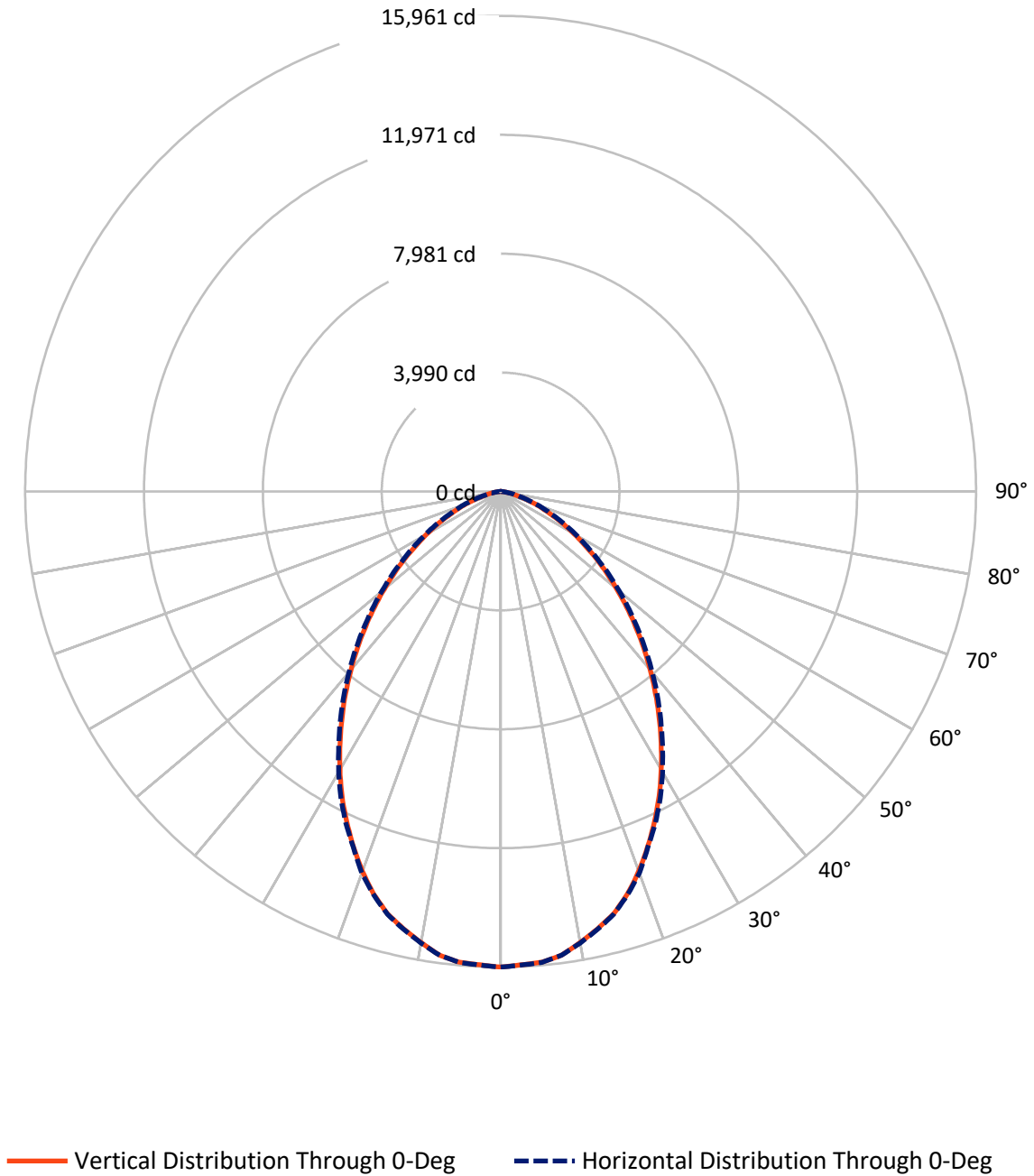
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Lumen Table

90																			
80	1.0	11.8	32.2	54.6	51.5	54.6	32.2	11.8	1.0										
70																			
60	5.3	7.4	14.9	25.4	37.2	48.1	56.3	60.2	60.2	56.3	48.1	37.2	25.4	14.9	7.4				5.3
50																			
40	9.4	11.1	24.3	43.3	65.5	89.1	108.4	118.5	118.5	108.4	89.1	65.5	43.3	24.3	11.1				9.4
30																			
20	12.1	14.9	35.1	64.8	102.6	142.2	175.4	193.6	193.6	175.4	142.2	102.6	64.8	35.1	14.9				12.1
10																			
0	13.2	18.9	46.5	89.2	143.7	201.4	250.7	278.7	278.7	250.7	201.4	143.7	89.2	46.5	18.9				13.2
-10																			
-20	12.1	22.6	57.2	112.1	182.9	259.6	326.5	365.0	365.0	326.5	259.6	182.9	112.1	57.2	22.6				12.1
-30																			
-40	9.4	25.5	65.4	129.3	213.5	306.8	389.1	435.9	435.9	389.1	306.8	213.5	129.3	65.4	25.5				9.4
-50																			
-60	5.3	27.0	70.0	139.0	230.5	333.0	423.0	472.2	472.2	423.0	333.0	230.5	139.0	70.0	27.0				5.3
-70																			
-80	1.0	27.0	70.0	139.0	230.5	333.0	423.0	472.2	472.2	423.0	333.0	230.5	139.0	70.0	27.0				1.0
-90																			

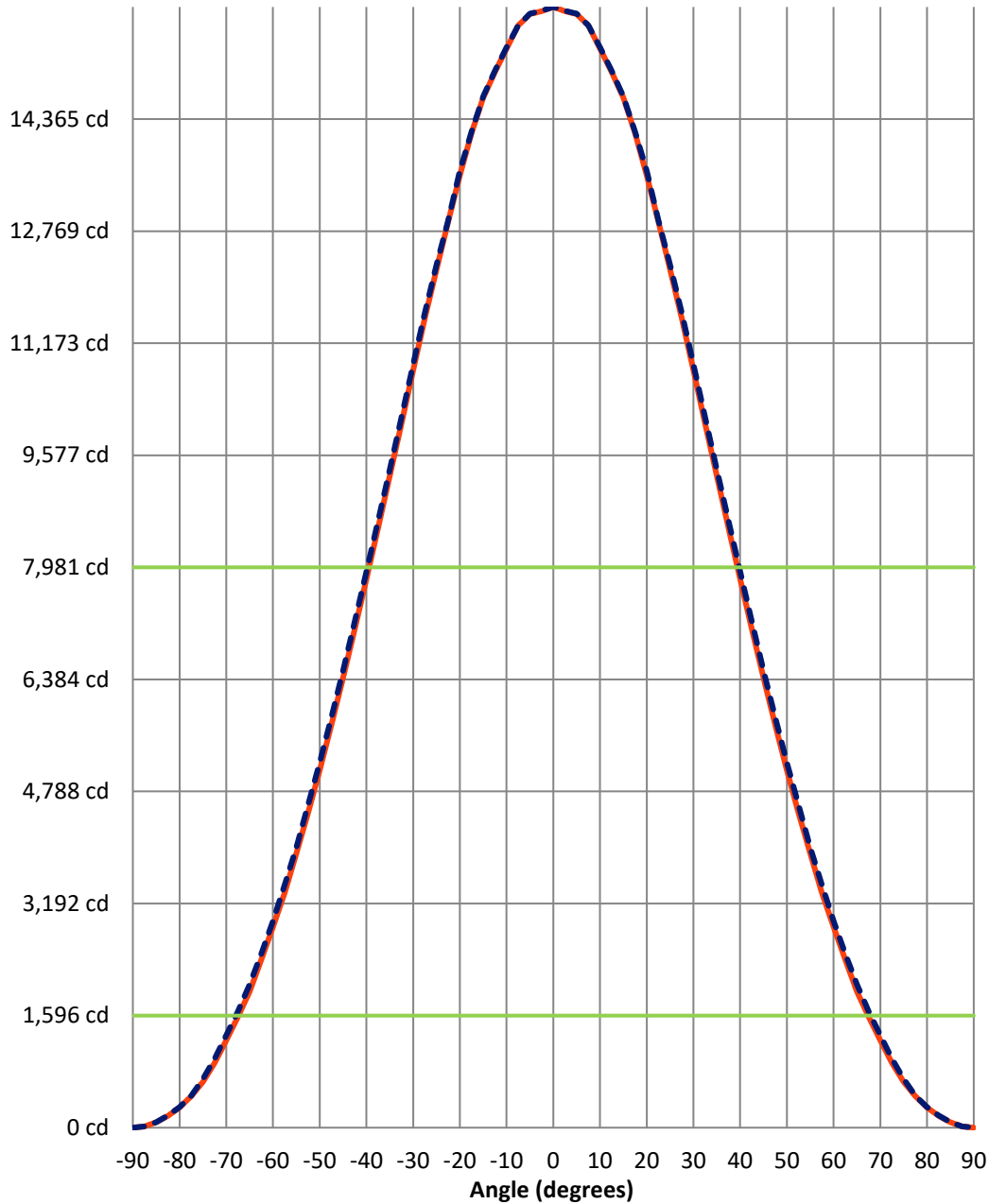
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 79.6°
 V Angle: 78.9°
 Lumens: 16919.7
 Efficiency: 58.7%

Field:
 H Angle: 135.9°
 V Angle: 134.8°
 Lumens: 27501.9
 Efficiency: 95.3%

Spill:
 Lumens: 1346.4
 Efficiency: 4.7%

- Vertical Distribution through 0-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	0.9	2.1	3.1	4.1	5.2	6.2	7.2	8.2	9.1	10.1
85°	0.0	1.8	4.2	6.2	8.3	10.3	12.4	14.4	16.3	18.3	20.2
82.5°	0.0	2.7	6.2	9.3	12.4	15.5	18.5	21.5	26.9	42.4	57.2
80°	0.0	3.6	8.3	12.4	16.5	20.6	27.9	49.6	70.5	90.6	109.9
77.5°	0.0	4.5	10.3	15.5	20.6	32.3	60.7	88.1	113.9	138.7	169.4
75°	0.0	5.4	12.3	18.5	26.8	55.9	92.8	126.4	158.6	202.9	249.9
72.5°	0.0	6.2	14.2	21.5	42.8	78.8	123.8	167.5	218.1	272.0	329.1
70°	0.0	7.1	16.1	25.8	58.2	100.9	154.9	216.8	276.3	339.8	414.0
67.5°	0.0	7.9	17.9	35.3	73.1	122.1	192.2	264.9	333.3	413.5	498.5
65°	0.0	8.7	19.7	44.5	87.2	145.8	227.8	311.8	394.8	484.9	577.6
62.5°	0.0	9.5	21.4	53.2	100.6	171.8	261.7	360.7	454.3	553.2	648.4
60°	0.0	10.2	23.1	61.5	113.2	196.4	293.6	409.3	511.5	617.2	718.2
57.5°	0.0	11.0	27.7	69.3	130.1	219.5	327.2	454.5	567.9	680.0	784.4
55°	0.0	11.7	32.3	76.6	146.1	241.0	359.0	493.6	623.4	740.7	847.9
52.5°	0.0	12.3	36.7	83.3	161.0	261.4	388.5	534.3	677.7	796.6	909.7
50°	0.0	13.0	40.8	89.4	174.7	283.0	415.5	572.9	729.1	850.8	980.7
47.5°	0.0	13.6	44.8	95.8	187.2	302.8	440.7	608.8	775.8	903.3	1050.1
45°	0.0	14.2	48.6	104.1	198.5	320.6	468.9	641.9	812.1	962.7	1116.6
42.5°	0.0	14.7	52.2	111.6	208.5	336.5	494.7	672.3	846.8	1019.4	1194.8
40°	0.0	15.2	55.6	119.3	218.5	350.3	518.0	701.1	882.9	1072.6	1271.1
37.5°	0.0	15.6	58.8	126.9	228.4	362.1	539.0	728.5	923.4	1123.1	1342.6
35°	0.0	16.1	61.7	134.0	236.9	375.8	557.4	754.2	962.8	1181.3	1414.6
32.5°	0.0	16.5	64.4	140.5	244.1	389.5	574.5	778.3	1001.1	1237.2	1491.0
30°	0.0	16.8	66.9	146.5	249.8	401.2	592.3	802.4	1038.1	1290.6	1562.3
27.5°	0.0	17.1	69.1	151.9	258.3	410.8	608.3	830.4	1076.1	1341.3	1628.5
25°	0.0	17.4	71.1	156.8	266.4	418.5	622.3	856.4	1115.8	1392.9	1689.7
22.5°	0.0	17.6	72.9	161.1	273.4	426.2	634.4	880.2	1152.4	1441.7	1754.9
20°	0.0	17.8	74.4	164.8	279.5	436.8	644.3	901.6	1185.5	1485.4	1813.4
17.5°	0.0	17.9	75.7	167.9	284.6	445.4	656.8	920.4	1215.0	1523.7	1864.9
15°	0.0	18.0	76.7	170.4	288.7	452.2	669.7	938.4	1240.7	1556.6	1909.4
12.5°	0.0	18.1	77.5	172.4	291.9	457.0	680.2	955.3	1264.0	1583.8	1946.6
10°	0.0	18.1	78.0	173.7	294.0	460.1	688.2	968.3	1284.0	1609.4	1977.9
7.5°	0.0	18.1	78.3	174.5	295.2	461.3	693.7	977.5	1299.4	1630.0	2005.0
5°	0.0	18.1	78.4	174.7	295.5	460.8	696.5	982.6	1310.0	1645.0	2024.4
2.5°	0.0	18.0	78.2	174.4	294.8	458.5	696.6	983.8	1315.6	1654.0	2036.1
0°	0.0	17.9	77.8	173.5	293.1	454.7	694.0	981.1	1316.1	1657.1	2040.0
-2.5°	0.0	18.0	78.2	174.4	294.8	458.5	696.6	983.8	1315.6	1654.0	2036.1
-5°	0.0	18.1	78.4	174.7	295.5	460.8	696.5	982.6	1310.0	1645.0	2024.4
-7.5°	0.0	18.1	78.3	174.5	295.2	461.3	693.7	977.5	1299.4	1630.0	2005.0
-10°	0.0	18.1	78.0	173.7	294.0	460.1	688.2	968.3	1284.0	1609.4	1977.9
-12.5°	0.0	18.1	77.5	172.4	291.9	457.0	680.2	955.3	1264.0	1583.8	1946.6
-15°	0.0	18.0	76.7	170.4	288.7	452.2	669.7	938.4	1240.7	1556.6	1909.4
-17.5°	0.0	17.9	75.7	167.9	284.6	445.4	656.8	920.4	1215.0	1523.7	1864.9
-20°	0.0	17.8	74.4	164.8	279.5	436.8	644.3	901.6	1185.5	1485.4	1813.4

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Scaled Data Report



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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	17.6	72.9	161.1	273.4	426.2	634.4	880.2	1152.4	1441.7	1754.9
-25°	0.0	17.4	71.1	156.8	266.4	418.5	622.3	856.4	1115.8	1392.9	1689.7
-27.5°	0.0	17.1	69.1	151.9	258.3	410.8	608.3	830.4	1076.1	1341.3	1628.5
-30°	0.0	16.8	66.9	146.5	249.8	401.2	592.3	802.4	1038.1	1290.6	1562.3
-32.5°	0.0	16.5	64.4	140.5	244.1	389.5	574.5	778.3	1001.1	1237.2	1491.0
-35°	0.0	16.1	61.7	134.0	236.9	375.8	557.4	754.2	962.8	1181.3	1414.6
-37.5°	0.0	15.6	58.8	126.9	228.4	362.1	539.0	728.5	923.4	1123.1	1342.6
-40°	0.0	15.2	55.6	119.3	218.5	350.3	518.0	701.1	882.9	1072.6	1271.1
-42.5°	0.0	14.7	52.2	111.6	208.5	336.5	494.7	672.3	846.8	1019.4	1194.8
-45°	0.0	14.2	48.6	104.1	198.5	320.6	468.9	641.9	812.1	962.7	1116.6
-47.5°	0.0	13.6	44.8	95.8	187.2	302.8	440.7	608.8	775.8	903.3	1050.1
-50°	0.0	13.0	40.8	89.4	174.7	283.0	415.5	572.9	729.1	850.8	980.7
-52.5°	0.0	12.3	36.7	83.3	161.0	261.4	388.5	534.3	677.7	796.6	909.7
-55°	0.0	11.7	32.3	76.6	146.1	241.0	359.0	493.6	623.4	740.7	847.9
-57.5°	0.0	11.0	27.7	69.3	130.1	219.5	327.2	454.5	567.9	680.0	784.4
-60°	0.0	10.2	23.1	61.5	113.2	196.4	293.6	409.3	511.5	617.2	718.2
-62.5°	0.0	9.5	21.4	53.2	100.6	171.8	261.7	360.7	454.3	553.2	648.4
-65°	0.0	8.7	19.7	44.5	87.2	145.8	227.8	311.8	394.8	484.9	577.6
-67.5°	0.0	7.9	17.9	35.3	73.1	122.1	192.2	264.9	333.3	413.5	498.5
-70°	0.0	7.1	16.1	25.8	58.2	100.9	154.9	216.8	276.3	339.8	414.0
-72.5°	0.0	6.2	14.2	21.5	42.8	78.8	123.8	167.5	218.1	272.0	329.1
-75°	0.0	5.4	12.3	18.5	26.8	55.9	92.8	126.4	158.6	202.9	249.9
-77.5°	0.0	4.5	10.3	15.5	20.6	32.3	60.7	88.1	113.9	138.7	169.4
-80°	0.0	3.6	8.3	12.4	16.5	20.6	27.9	49.6	70.5	90.6	109.9
-82.5°	0.0	2.7	6.2	9.3	12.4	15.5	18.5	21.5	26.9	42.4	57.2
-85°	0.0	1.8	4.2	6.2	8.3	10.3	12.4	14.4	16.3	18.3	20.2
-87.5°	0.0	0.9	2.1	3.1	4.1	5.2	6.2	7.2	8.2	9.1	10.1
-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):

	-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°	11.7	13.4	15.2	17.1	17.3	17.3	17.2	16.9	17.6	18.3	19.0
85°	23.4	26.8	37.3	47.3	52.2	55.2	56.5	56.3	65.5	76.1	87.6
82.5°	72.8	87.8	102.1	115.7	119.3	119.3	118.2	118.5	140.1	164.7	190.0
80°	129.6	148.7	173.9	196.3	206.0	211.0	213.3	212.9	240.2	276.4	314.6
77.5°	205.6	237.7	265.5	289.3	302.0	313.3	322.5	329.5	364.5	410.4	455.9
75°	292.2	327.4	362.3	392.7	414.0	429.8	444.5	468.2	514.0	567.5	614.1
72.5°	383.6	428.5	467.4	500.4	530.3	562.1	597.6	636.4	684.8	738.2	786.9
70°	481.2	530.5	571.3	611.1	651.8	699.3	752.6	805.0	859.0	917.9	974.7
67.5°	576.6	624.2	672.3	722.5	783.4	847.0	910.0	982.3	1056.2	1121.7	1180.3
65°	659.6	715.4	775.5	843.6	918.9	999.7	1083.7	1170.4	1264.2	1342.8	1414.5
62.5°	738.8	805.9	878.9	963.8	1059.7	1155.4	1262.6	1371.2	1476.7	1569.4	1655.0
60°	811.8	893.1	985.4	1089.4	1201.5	1328.7	1450.8	1574.2	1690.0	1794.9	1903.1
57.5°	882.9	985.1	1095.8	1220.8	1362.4	1505.4	1648.9	1781.6	1912.7	2040.5	2162.9
55°	958.0	1081.2	1212.9	1366.3	1526.0	1695.0	1849.5	1997.7	2142.1	2297.2	2444.7
52.5°	1040.6	1178.3	1343.2	1514.9	1699.3	1880.7	2050.5	2219.3	2393.8	2569.4	2761.3
50°	1120.4	1292.1	1472.8	1672.4	1871.6	2066.0	2260.7	2455.1	2664.2	2879.5	3097.1
47.5°	1213.6	1401.0	1614.5	1828.5	2046.2	2262.5	2479.5	2714.4	2952.0	3201.7	3442.3
45°	1308.0	1518.6	1748.6	1990.6	2226.1	2465.5	2719.2	2978.9	3257.5	3532.2	3821.6
42.5°	1397.4	1635.5	1889.0	2150.4	2412.3	2679.8	2958.8	3262.2	3566.7	3883.4	4201.5
40°	1496.5	1746.6	2026.2	2314.1	2598.3	2894.8	3213.7	3542.3	3886.8	4235.1	4580.5
37.5°	1591.7	1866.7	2160.5	2470.4	2789.4	3115.3	3461.5	3834.5	4208.1	4582.9	4963.8
35°	1680.9	1980.5	2298.8	2627.8	2966.0	3336.8	3723.8	4121.9	4526.7	4932.1	5341.8
32.5°	1772.7	2087.8	2430.9	2783.0	3155.8	3553.3	3977.2	4408.7	4839.8	5272.6	5721.1
30°	1864.6	2200.4	2558.9	2929.8	3337.5	3770.7	4226.3	4683.3	5139.3	5615.6	6093.6
27.5°	1951.5	2307.2	2684.6	3081.6	3511.7	3971.9	4455.8	4945.3	5437.0	5943.5	6453.4
25°	2031.5	2408.3	2801.3	3227.6	3683.5	4165.6	4669.7	5180.5	5719.8	6261.7	6794.1
22.5°	2109.5	2501.2	2909.4	3362.0	3839.1	4345.5	4870.4	5409.8	5973.3	6555.3	7106.2
20°	2184.6	2589.7	3014.6	3483.9	3978.5	4507.4	5052.8	5617.6	6208.8	6806.3	7398.9
17.5°	2251.3	2668.4	3112.5	3597.9	4111.6	4655.4	5217.1	5800.5	6418.0	7037.4	7665.3
15°	2309.3	2736.8	3197.3	3697.4	4229.1	4790.0	5369.6	5969.6	6603.0	7248.0	7900.8
12.5°	2358.3	2794.8	3268.7	3781.9	4328.9	4905.4	5500.7	6121.8	6772.3	7435.3	8107.0
10°	2398.2	2842.0	3326.5	3851.0	4410.4	5000.8	5608.6	6247.2	6917.2	7594.6	8280.4
7.5°	2432.2	2881.5	3372.3	3904.3	4473.2	5075.5	5692.6	6345.1	7032.7	7718.9	8419.8
5°	2456.9	2913.3	3414.5	3948.9	4527.9	5133.8	5756.3	6414.8	7117.1	7807.3	8520.8
2.5°	2471.7	2934.0	3443.1	3977.9	4570.8	5177.5	5812.9	6476.4	7179.0	7877.5	8596.8
0°	2476.7	2943.3	3457.8	3990.3	4594.5	5198.7	5844.8	6508.9	7208.8	7920.7	8644.6
-2.5°	2471.7	2934.0	3443.1	3977.9	4570.8	5177.5	5812.9	6476.4	7179.0	7877.5	8596.8
-5°	2456.9	2913.3	3414.5	3948.9	4527.9	5133.8	5756.3	6414.8	7117.1	7807.3	8520.8
-7.5°	2432.2	2881.5	3372.3	3904.3	4473.2	5075.5	5692.6	6345.1	7032.7	7718.9	8419.8
-10°	2398.2	2842.0	3326.5	3851.0	4410.4	5000.8	5608.6	6247.2	6917.2	7594.6	8280.4
-12.5°	2358.3	2794.8	3268.7	3781.9	4328.9	4905.4	5500.7	6121.8	6772.3	7435.3	8107.0
-15°	2309.3	2736.8	3197.3	3697.4	4229.1	4790.0	5369.6	5969.6	6603.0	7248.0	7900.8
-17.5°	2251.3	2668.4	3112.5	3597.9	4111.6	4655.4	5217.1	5800.5	6418.0	7037.4	7665.3
-20°	2184.6	2589.7	3014.6	3483.9	3978.5	4507.4	5052.8	5617.6	6208.8	6806.3	7398.9

Classified

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

Scaled Data Report



REPORT NUMBER: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2109.5	2501.2	2909.4	3362.0	3839.1	4345.5	4870.4	5409.8	5973.3	6555.3	7106.2
-25°	2031.5	2408.3	2801.3	3227.6	3683.5	4165.6	4669.7	5180.5	5719.8	6261.7	6794.1
-27.5°	1951.5	2307.2	2684.6	3081.6	3511.7	3971.9	4455.8	4945.3	5437.0	5943.5	6453.4
-30°	1864.6	2200.4	2558.9	2929.8	3337.5	3770.7	4226.3	4683.3	5139.3	5615.6	6093.6
-32.5°	1772.7	2087.8	2430.9	2783.0	3155.8	3553.3	3977.2	4408.7	4839.8	5272.6	5721.1
-35°	1680.9	1980.5	2298.8	2627.8	2966.0	3336.8	3723.8	4121.9	4526.7	4932.1	5341.8
-37.5°	1591.7	1866.7	2160.5	2470.4	2789.4	3115.3	3461.5	3834.5	4208.1	4582.9	4963.8
-40°	1496.5	1746.6	2026.2	2314.1	2598.3	2894.8	3213.7	3542.3	3886.8	4235.1	4580.5
-42.5°	1397.4	1635.5	1889.0	2150.4	2412.3	2679.8	2958.8	3262.2	3566.7	3883.4	4201.5
-45°	1308.0	1518.6	1748.6	1990.6	2226.1	2465.5	2719.2	2978.9	3257.5	3532.2	3821.6
-47.5°	1213.6	1401.0	1614.5	1828.5	2046.2	2262.5	2479.5	2714.4	2952.0	3201.7	3442.3
-50°	1120.4	1292.1	1472.8	1672.4	1871.6	2066.0	2260.7	2455.1	2664.2	2879.5	3097.1
-52.5°	1040.6	1178.3	1343.2	1514.9	1699.3	1880.7	2050.5	2219.3	2393.8	2569.4	2761.3
-55°	958.0	1081.2	1212.9	1366.3	1526.0	1695.0	1849.5	1997.7	2142.1	2297.2	2444.7
-57.5°	882.9	985.1	1095.8	1220.8	1362.4	1505.4	1648.9	1781.6	1912.7	2040.5	2162.9
-60°	811.8	893.1	985.4	1089.4	1201.5	1328.7	1450.8	1574.2	1690.0	1794.9	1903.1
-62.5°	738.8	805.9	878.9	963.8	1059.7	1155.4	1262.6	1371.2	1476.7	1569.4	1655.0
-65°	659.6	715.4	775.5	843.6	918.9	999.7	1083.7	1170.4	1264.2	1342.8	1414.5
-67.5°	576.6	624.2	672.3	722.5	783.4	847.0	910.0	982.3	1056.2	1121.7	1180.3
-70°	481.2	530.5	571.3	611.1	651.8	699.3	752.6	805.0	859.0	917.9	974.7
-72.5°	383.6	428.5	467.4	500.4	530.3	562.1	597.6	636.4	684.8	738.2	786.9
-75°	292.2	327.4	362.3	392.7	414.0	429.8	444.5	468.2	514.0	567.5	614.1
-77.5°	205.6	237.7	265.5	289.3	302.0	313.3	322.5	329.5	364.5	410.4	455.9
-80°	129.6	148.7	173.9	196.3	206.0	211.0	213.3	212.9	240.2	276.4	314.6
-82.5°	72.8	87.8	102.1	115.7	119.3	119.3	118.2	118.5	140.1	164.7	190.0
-85°	23.4	26.8	37.3	47.3	52.2	55.2	56.5	56.3	65.5	76.1	87.6
-87.5°	11.7	13.4	15.2	17.1	17.3	17.3	17.2	16.9	17.6	18.3	19.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4D-730-U-VWR-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°	19.6	20.2	20.7	21.2	21.7	22.1	22.5	22.8	23.1	21.9	20.6
85°	99.9	107.0	113.6	119.9	126.0	131.6	137.0	141.9	146.5	133.8	119.7
82.5°	215.8	233.1	249.6	266.0	282.2	286.3	287.6	287.0	284.7	262.4	237.8
80°	352.3	381.6	409.3	436.7	463.7	466.8	463.7	458.1	450.2	420.9	387.8
77.5°	501.2	538.2	570.5	600.1	627.0	632.1	631.4	630.0	627.8	598.0	561.8
75°	653.9	690.0	724.8	754.5	779.2	790.5	796.1	800.0	802.2	780.7	752.7
72.5°	831.0	868.5	899.3	928.0	952.3	970.0	982.6	992.1	998.6	992.1	980.7
70°	1023.1	1063.4	1097.3	1129.8	1162.8	1189.2	1209.2	1223.7	1232.9	1238.9	1243.1
67.5°	1239.4	1293.5	1340.7	1381.0	1420.9	1458.3	1489.1	1514.2	1533.6	1550.1	1562.7
65°	1483.1	1552.2	1613.5	1669.9	1721.5	1775.7	1820.3	1857.7	1887.7	1912.6	1932.5
62.5°	1739.3	1824.1	1902.8	1979.2	2054.0	2127.8	2184.3	2235.8	2281.6	2321.0	2352.3
60°	2005.5	2101.9	2207.5	2308.3	2401.2	2485.9	2570.2	2643.1	2705.5	2757.3	2799.0
57.5°	2291.7	2416.4	2539.9	2665.2	2783.6	2894.3	2998.0	3089.4	3166.7	3230.1	3283.3
55°	2600.9	2756.9	2900.2	3058.2	3210.8	3349.8	3472.2	3579.7	3672.7	3750.6	3816.7
52.5°	2940.8	3130.4	3316.4	3496.2	3669.5	3830.7	3977.2	4102.4	4213.8	4309.3	4385.5
50°	3312.7	3529.6	3745.3	3945.3	4144.4	4330.1	4498.0	4643.4	4773.0	4885.2	4973.5
47.5°	3701.8	3948.6	4189.4	4418.3	4638.6	4845.2	5027.0	5192.7	5354.3	5486.1	5590.4
45°	4105.7	4382.6	4648.2	4909.9	5152.6	5384.1	5608.4	5814.7	5980.6	6125.8	6247.7
42.5°	4514.5	4823.4	5120.9	5406.4	5673.2	5940.9	6193.3	6418.8	6607.9	6773.0	6911.6
40°	4928.7	5266.8	5594.6	5905.9	6211.0	6502.8	6775.8	7013.6	7226.9	7423.0	7586.3
37.5°	5340.7	5712.8	6075.9	6424.7	6760.5	7076.7	7371.6	7640.4	7881.1	8104.4	8285.8
35°	5754.6	6162.8	6560.4	6944.1	7311.0	7659.9	7982.8	8288.6	8572.2	8798.5	8984.1
32.5°	6166.9	6605.8	7038.4	7460.8	7862.4	8238.6	8588.4	8926.3	9218.1	9466.8	9680.2
30°	6565.9	7041.3	7512.4	7970.5	8404.3	8811.9	9199.2	9556.5	9870.3	10142.3	10381.6
27.5°	6957.4	7468.1	7973.6	8463.0	8932.0	9374.9	9797.6	10185.1	10527.5	10823.1	11075.5
25°	7327.4	7876.4	8415.2	8934.0	9435.1	9923.6	10380.0	10802.8	11168.6	11493.1	11752.4
22.5°	7680.9	8266.4	8832.5	9378.4	9914.3	10440.8	10940.5	11382.0	11769.7	12108.9	12395.9
20°	8010.3	8637.6	9216.9	9794.1	10358.6	10920.8	11457.4	11923.2	12333.4	12694.5	13010.8
17.5°	8318.1	8961.6	9571.5	10186.1	10781.1	11370.8	11915.9	12415.2	12857.8	13241.3	13572.6
15°	8578.7	9228.6	9894.7	10550.8	11178.2	11775.5	12320.1	12841.6	13333.0	13747.8	14083.7
12.5°	8789.8	9465.6	10160.5	10857.0	11520.6	12117.0	12687.2	13216.2	13732.4	14198.2	14507.0
10°	8969.6	9665.5	10382.9	11093.3	11765.7	12396.8	13016.7	13576.0	14083.2	14500.4	14845.2
7.5°	9125.1	9842.0	10570.6	11282.1	11952.2	12604.4	13242.5	13836.5	14348.5	14741.5	15049.2
5°	9239.8	9973.7	10716.4	11434.4	12114.0	12768.2	13409.2	13995.8	14495.6	14895.5	15231.0
2.5°	9321.9	10062.6	10810.6	11529.7	12224.3	12880.1	13537.2	14130.4	14614.4	14980.8	15301.9
0°	9374.4	10116.3	10870.0	11605.9	12287.9	12922.0	13627.9	14184.3	14686.8	15051.8	15386.8
-2.5°	9321.9	10062.6	10810.6	11529.7	12224.3	12880.1	13537.2	14130.4	14614.4	14980.8	15301.9
-5°	9239.8	9973.7	10716.4	11434.4	12114.0	12768.2	13409.2	13995.8	14495.6	14895.5	15231.0
-7.5°	9125.1	9842.0	10570.6	11282.1	11952.2	12604.4	13242.5	13836.5	14348.5	14741.5	15049.2
-10°	8969.6	9665.5	10382.9	11093.3	11765.7	12396.8	13016.7	13576.0	14083.2	14500.4	14845.2
-12.5°	8789.8	9465.6	10160.5	10857.0	11520.6	12117.0	12687.2	13216.2	13732.4	14198.2	14507.0
-15°	8578.7	9228.6	9894.7	10550.8	11178.2	11775.5	12320.1	12841.6	13333.0	13747.8	14083.7
-17.5°	8318.1	8961.6	9571.5	10186.1	10781.1	11370.8	11915.9	12415.2	12857.8	13241.3	13572.6
-20°	8010.3	8637.6	9216.9	9794.1	10358.6	10920.8	11457.4	11923.2	12333.4	12694.5	13010.8



REPORT NUMBER: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7680.9	8266.4	8832.5	9378.4	9914.3	10440.8	10940.5	11382.0	11769.7	12108.9	12395.9
-25°	7327.4	7876.4	8415.2	8934.0	9435.1	9923.6	10380.0	10802.8	11168.6	11493.1	11752.4
-27.5°	6957.4	7468.1	7973.6	8463.0	8932.0	9374.9	9797.6	10185.1	10527.5	10823.1	11075.5
-30°	6565.9	7041.3	7512.4	7970.5	8404.3	8811.9	9199.2	9556.5	9870.3	10142.3	10381.6
-32.5°	6166.9	6605.8	7038.4	7460.8	7862.4	8238.6	8588.4	8926.3	9218.1	9466.8	9680.2
-35°	5754.6	6162.8	6560.4	6944.1	7311.0	7659.9	7982.8	8288.6	8572.2	8798.5	8984.1
-37.5°	5340.7	5712.8	6075.9	6424.7	6760.5	7076.7	7371.6	7640.4	7881.1	8104.4	8285.8
-40°	4928.7	5266.8	5594.6	5905.9	6211.0	6502.8	6775.8	7013.6	7226.9	7423.0	7586.3
-42.5°	4514.5	4823.4	5120.9	5406.4	5673.2	5940.9	6193.3	6418.8	6607.9	6773.0	6911.6
-45°	4105.7	4382.6	4648.2	4909.9	5152.6	5384.1	5608.4	5814.7	5980.6	6125.8	6247.7
-47.5°	3701.8	3948.6	4189.4	4418.3	4638.6	4845.2	5027.0	5192.7	5354.3	5486.1	5590.4
-50°	3312.7	3529.6	3745.3	3945.3	4144.4	4330.1	4498.0	4643.4	4773.0	4885.2	4973.5
-52.5°	2940.8	3130.4	3316.4	3496.2	3669.5	3830.7	3977.2	4102.4	4213.8	4309.3	4385.5
-55°	2600.9	2756.9	2900.2	3058.2	3210.8	3349.8	3472.2	3579.7	3672.7	3750.6	3816.7
-57.5°	2291.7	2416.4	2539.9	2665.2	2783.6	2894.3	2998.0	3089.4	3166.7	3230.1	3283.3
-60°	2005.5	2101.9	2207.5	2308.3	2401.2	2485.9	2570.2	2643.1	2705.5	2757.3	2799.0
-62.5°	1739.3	1824.1	1902.8	1979.2	2054.0	2127.8	2184.3	2235.8	2281.6	2321.0	2352.3
-65°	1483.1	1552.2	1613.5	1669.9	1721.5	1775.7	1820.3	1857.7	1887.7	1912.6	1932.5
-67.5°	1239.4	1293.5	1340.7	1381.0	1420.9	1458.3	1489.1	1514.2	1533.6	1550.1	1562.7
-70°	1023.1	1063.4	1097.3	1129.8	1162.8	1189.2	1209.2	1223.7	1232.9	1238.9	1243.1
-72.5°	831.0	868.5	899.3	928.0	952.3	970.0	982.6	992.1	998.6	992.1	980.7
-75°	653.9	690.0	724.8	754.5	779.2	790.5	796.1	800.0	802.2	780.7	752.7
-77.5°	501.2	538.2	570.5	600.1	627.0	632.1	631.4	630.0	627.8	598.0	561.8
-80°	352.3	381.6	409.3	436.7	463.7	466.8	463.7	458.1	450.2	420.9	387.8
-82.5°	215.8	233.1	249.6	266.0	282.2	286.3	287.6	287.0	284.7	262.4	237.8
-85°	99.9	107.0	113.6	119.9	126.0	131.6	137.0	141.9	146.5	133.8	119.7
-87.5°	19.6	20.2	20.7	21.2	21.7	22.1	22.5	22.8	23.1	21.9	20.6
-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: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-730-U-VWR-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°	19.2	17.8	17.9	17.9	17.9	17.8	19.2	20.6	21.9	23.1	22.8
85°	104.8	89.3	83.6	77.8	83.6	89.3	104.8	119.7	133.8	146.5	141.9
82.5°	211.8	184.9	176.3	167.5	176.3	184.9	211.8	237.8	262.4	284.7	287.0
80°	352.8	316.3	301.9	287.2	301.9	316.3	352.8	387.8	420.9	450.2	458.1
77.5°	523.6	483.5	466.3	448.7	466.3	483.5	523.6	561.8	598.0	627.8	630.0
75°	723.1	691.6	672.6	652.1	672.6	691.6	723.1	752.7	780.7	802.2	800.0
72.5°	967.5	952.2	938.3	921.3	938.3	952.2	967.5	980.7	992.1	998.6	992.1
70°	1244.5	1242.6	1245.1	1244.3	1245.1	1242.6	1244.5	1243.1	1238.9	1232.9	1223.7
67.5°	1569.3	1569.7	1576.4	1579.4	1576.4	1569.7	1569.3	1562.7	1550.1	1533.6	1514.2
65°	1944.8	1949.4	1947.7	1938.3	1947.7	1949.4	1944.8	1932.5	1912.6	1887.7	1857.7
62.5°	2374.6	2387.5	2394.6	2393.0	2394.6	2387.5	2374.6	2352.3	2321.0	2281.6	2235.8
60°	2830.2	2850.5	2860.7	2859.6	2860.7	2850.5	2830.2	2799.0	2757.3	2705.5	2643.1
57.5°	3323.0	3349.0	3355.0	3344.2	3355.0	3349.0	3323.0	3283.3	3230.1	3166.7	3089.4
55°	3866.6	3899.7	3912.6	3906.5	3912.6	3899.7	3866.6	3816.7	3750.6	3672.7	3579.7
52.5°	4441.4	4477.2	4490.0	4480.8	4490.0	4477.2	4441.4	4385.5	4309.3	4213.8	4102.4
50°	5038.3	5081.8	5099.3	5091.0	5099.3	5081.8	5038.3	4973.5	4885.2	4773.0	4643.4
47.5°	5672.0	5729.9	5752.4	5737.1	5752.4	5729.9	5672.0	5590.4	5486.1	5354.3	5192.7
45°	6338.8	6398.9	6422.1	6407.2	6422.1	6398.9	6338.8	6247.7	6125.8	5980.6	5814.7
42.5°	7017.6	7095.6	7128.6	7101.1	7128.6	7095.6	7017.6	6911.6	6773.0	6607.9	6418.8
40°	7708.3	7792.9	7832.0	7813.0	7832.0	7792.9	7708.3	7586.3	7423.0	7226.9	7013.6
37.5°	8416.7	8501.0	8542.3	8542.9	8542.3	8501.0	8416.7	8285.8	8104.4	7881.1	7640.4
35°	9127.8	9229.8	9287.5	9284.7	9287.5	9229.8	9127.8	8984.1	8798.5	8572.2	8288.6
32.5°	9848.9	9959.3	10018.2	10026.5	10018.2	9959.3	9848.9	9680.2	9466.8	9218.1	8926.3
30°	10568.6	10690.0	10758.3	10786.3	10758.3	10690.0	10568.6	10381.6	10142.3	9870.3	9556.5
27.5°	11266.7	11416.0	11519.1	11528.1	11519.1	11416.0	11266.7	11075.5	10823.1	10527.5	10185.1
25°	11942.7	12094.8	12200.5	12222.1	12200.5	12094.8	11942.7	11752.4	11493.1	11168.6	10802.8
22.5°	12609.1	12768.0	12865.6	12904.1	12865.6	12768.0	12609.1	12395.9	12108.9	11769.7	11382.0
20°	13245.1	13417.4	13521.0	13562.1	13521.0	13417.4	13245.1	13010.8	12694.5	12333.4	11923.2
17.5°	13820.6	14002.7	14130.4	14166.4	14130.4	14002.7	13820.6	13572.6	13241.3	12857.8	12415.2
15°	14327.0	14499.7	14621.0	14668.9	14621.0	14499.7	14327.0	14083.7	13747.8	13333.0	12841.6
12.5°	14739.2	14893.7	14988.7	15033.8	14988.7	14893.7	14739.2	14507.0	14198.2	13732.4	13216.2
10°	15061.3	15216.2	15306.9	15368.8	15306.9	15216.2	15061.3	14845.2	14500.4	14083.2	13576.0
7.5°	15340.8	15499.5	15610.5	15697.9	15610.5	15499.5	15340.8	15049.2	14741.5	14348.5	13836.5
5°	15495.0	15760.2	15800.0	15859.4	15800.0	15760.2	15495.0	15231.0	14895.5	14495.6	13995.8
2.5°	15612.7	15800.7	15913.7	15901.3	15913.7	15800.7	15612.7	15301.9	14980.8	14614.4	14130.4
0°	15697.9	15865.4	15907.2	15961.1	15907.2	15865.4	15697.9	15386.8	15051.8	14686.8	14184.3
-2.5°	15612.7	15800.7	15913.7	15901.3	15913.7	15800.7	15612.7	15301.9	14980.8	14614.4	14130.4
-5°	15495.0	15760.2	15800.0	15859.4	15800.0	15760.2	15495.0	15231.0	14895.5	14495.6	13995.8
-7.5°	15340.8	15499.5	15610.5	15697.9	15610.5	15499.5	15340.8	15049.2	14741.5	14348.5	13836.5
-10°	15061.3	15216.2	15306.9	15368.8	15306.9	15216.2	15061.3	14845.2	14500.4	14083.2	13576.0
-12.5°	14739.2	14893.7	14988.7	15033.8	14988.7	14893.7	14739.2	14507.0	14198.2	13732.4	13216.2
-15°	14327.0	14499.7	14621.0	14668.9	14621.0	14499.7	14327.0	14083.7	13747.8	13333.0	12841.6
-17.5°	13820.6	14002.7	14130.4	14166.4	14130.4	14002.7	13820.6	13572.6	13241.3	12857.8	12415.2
-20°	13245.1	13417.4	13521.0	13562.1	13521.0	13417.4	13245.1	13010.8	12694.5	12333.4	11923.2



REPORT NUMBER: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	12609.1	12768.0	12865.6	12904.1	12865.6	12768.0	12609.1	12395.9	12108.9	11769.7	11382.0
-25°	11942.7	12094.8	12200.5	12222.1	12200.5	12094.8	11942.7	11752.4	11493.1	11168.6	10802.8
-27.5°	11266.7	11416.0	11519.1	11528.1	11519.1	11416.0	11266.7	11075.5	10823.1	10527.5	10185.1
-30°	10568.6	10690.0	10758.3	10786.3	10758.3	10690.0	10568.6	10381.6	10142.3	9870.3	9556.5
-32.5°	9848.9	9959.3	10018.2	10026.5	10018.2	9959.3	9848.9	9680.2	9466.8	9218.1	8926.3
-35°	9127.8	9229.8	9287.5	9284.7	9287.5	9229.8	9127.8	8984.1	8798.5	8572.2	8288.6
-37.5°	8416.7	8501.0	8542.3	8542.9	8542.3	8501.0	8416.7	8285.8	8104.4	7881.1	7640.4
-40°	7708.3	7792.9	7832.0	7813.0	7832.0	7792.9	7708.3	7586.3	7423.0	7226.9	7013.6
-42.5°	7017.6	7095.6	7128.6	7101.1	7128.6	7095.6	7017.6	6911.6	6773.0	6607.9	6418.8
-45°	6338.8	6398.9	6422.1	6407.2	6422.1	6398.9	6338.8	6247.7	6125.8	5980.6	5814.7
-47.5°	5672.0	5729.9	5752.4	5737.1	5752.4	5729.9	5672.0	5590.4	5486.1	5354.3	5192.7
-50°	5038.3	5081.8	5099.3	5091.0	5099.3	5081.8	5038.3	4973.5	4885.2	4773.0	4643.4
-52.5°	4441.4	4477.2	4490.0	4480.8	4490.0	4477.2	4441.4	4385.5	4309.3	4213.8	4102.4
-55°	3866.6	3899.7	3912.6	3906.5	3912.6	3899.7	3866.6	3816.7	3750.6	3672.7	3579.7
-57.5°	3323.0	3349.0	3355.0	3344.2	3355.0	3349.0	3323.0	3283.3	3230.1	3166.7	3089.4
-60°	2830.2	2850.5	2860.7	2859.6	2860.7	2850.5	2830.2	2799.0	2757.3	2705.5	2643.1
-62.5°	2374.6	2387.5	2394.6	2393.0	2394.6	2387.5	2374.6	2352.3	2321.0	2281.6	2235.8
-65°	1944.8	1949.4	1947.7	1938.3	1947.7	1949.4	1944.8	1932.5	1912.6	1887.7	1857.7
-67.5°	1569.3	1569.7	1576.4	1579.4	1576.4	1569.7	1569.3	1562.7	1550.1	1533.6	1514.2
-70°	1244.5	1242.6	1245.1	1244.3	1245.1	1242.6	1244.5	1243.1	1238.9	1232.9	1223.7
-72.5°	967.5	952.2	938.3	921.3	938.3	952.2	967.5	980.7	992.1	998.6	992.1
-75°	723.1	691.6	672.6	652.1	672.6	691.6	723.1	752.7	780.7	802.2	800.0
-77.5°	523.6	483.5	466.3	448.7	466.3	483.5	523.6	561.8	598.0	627.8	630.0
-80°	352.8	316.3	301.9	287.2	301.9	316.3	352.8	387.8	420.9	450.2	458.1
-82.5°	211.8	184.9	176.3	167.5	176.3	184.9	211.8	237.8	262.4	284.7	287.0
-85°	104.8	89.3	83.6	77.8	83.6	89.3	104.8	119.7	133.8	146.5	141.9
-87.5°	19.2	17.8	17.9	17.9	17.9	17.8	19.2	20.6	21.9	23.1	22.8
-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: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-VWR-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°	22.5	22.1	21.7	21.2	20.7	20.2	19.6	19.0	18.3	17.6	16.9
85°	137.0	131.6	126.0	119.9	113.6	107.0	99.9	87.6	76.1	65.5	56.3
82.5°	287.6	286.3	282.2	266.0	249.6	233.1	215.8	190.0	164.7	140.1	118.5
80°	463.7	466.8	463.7	436.7	409.3	381.6	352.3	314.6	276.4	240.2	212.9
77.5°	631.4	632.1	627.0	600.1	570.5	538.2	501.2	455.9	410.4	364.5	329.5
75°	796.1	790.5	779.2	754.5	724.8	690.0	653.9	614.1	567.5	514.0	468.2
72.5°	982.6	970.0	952.3	928.0	899.3	868.5	831.0	786.9	738.2	684.8	636.4
70°	1209.2	1189.2	1162.8	1129.8	1097.3	1063.4	1023.1	974.7	917.9	859.0	805.0
67.5°	1489.1	1458.3	1420.9	1381.0	1340.7	1293.5	1239.4	1180.3	1121.7	1056.2	982.3
65°	1820.3	1775.7	1721.5	1669.9	1613.5	1552.2	1483.1	1414.5	1342.8	1264.2	1170.4
62.5°	2184.3	2127.8	2054.0	1979.2	1902.8	1824.1	1739.3	1655.0	1569.4	1476.7	1371.2
60°	2570.2	2485.9	2401.2	2308.3	2207.5	2101.9	2005.5	1903.1	1794.9	1690.0	1574.2
57.5°	2998.0	2894.3	2783.6	2665.2	2539.9	2416.4	2291.7	2162.9	2040.5	1912.7	1781.6
55°	3472.2	3349.8	3210.8	3058.2	2900.2	2756.9	2600.9	2444.7	2297.2	2142.1	1997.7
52.5°	3977.2	3830.7	3669.5	3496.2	3316.4	3130.4	2940.8	2761.3	2569.4	2393.8	2219.3
50°	4498.0	4330.1	4144.4	3945.3	3745.3	3529.6	3312.7	3097.1	2879.5	2664.2	2455.1
47.5°	5027.0	4845.2	4638.6	4418.3	4189.4	3948.6	3701.8	3442.3	3201.7	2952.0	2714.4
45°	5608.4	5384.1	5152.6	4909.9	4648.2	4382.6	4105.7	3821.6	3532.2	3257.5	2978.9
42.5°	6193.3	5940.9	5673.2	5406.4	5120.9	4823.4	4514.5	4201.5	3883.4	3566.7	3262.2
40°	6775.8	6502.8	6211.0	5905.9	5594.6	5266.8	4928.7	4580.5	4235.1	3886.8	3542.3
37.5°	7371.6	7076.7	6760.5	6424.7	6075.9	5712.8	5340.7	4963.8	4582.9	4208.1	3834.5
35°	7982.8	7659.9	7311.0	6944.1	6560.4	6162.8	5754.6	5341.8	4932.1	4526.7	4121.9
32.5°	8588.4	8238.6	7862.4	7460.8	7038.4	6605.8	6166.9	5721.1	5272.6	4839.8	4408.7
30°	9199.2	8811.9	8404.3	7970.5	7512.4	7041.3	6565.9	6093.6	5615.6	5139.3	4683.3
27.5°	9797.6	9374.9	8932.0	8463.0	7973.6	7468.1	6957.4	6453.4	5943.5	5437.0	4945.3
25°	10380.0	9923.6	9435.1	8934.0	8415.2	7876.4	7327.4	6794.1	6261.7	5719.8	5180.5
22.5°	10940.5	10440.8	9914.3	9378.4	8832.5	8266.4	7680.9	7106.2	6555.3	5973.3	5409.8
20°	11457.4	10920.8	10358.6	9794.1	9216.9	8637.6	8010.3	7398.9	6806.3	6208.8	5617.6
17.5°	11915.9	11370.8	10781.1	10186.1	9571.5	8961.6	8318.1	7665.3	7037.4	6418.0	5800.5
15°	12320.1	11775.5	11178.2	10550.8	9894.7	9228.6	8578.7	7900.8	7248.0	6603.0	5969.6
12.5°	12687.2	12117.0	11520.6	10857.0	10160.5	9465.6	8789.8	8107.0	7435.3	6772.3	6121.8
10°	13016.7	12396.8	11765.7	11093.3	10382.9	9665.5	8969.6	8280.4	7594.6	6917.2	6247.2
7.5°	13242.5	12604.4	11952.2	11282.1	10570.6	9842.0	9125.1	8419.8	7718.9	7032.7	6345.1
5°	13409.2	12768.2	12114.0	11434.4	10716.4	9973.7	9239.8	8520.8	7807.3	7117.1	6414.8
2.5°	13537.2	12880.1	12224.3	11529.7	10810.6	10062.6	9321.9	8596.8	7877.5	7179.0	6476.4
0°	13627.9	12922.0	12287.9	11605.9	10870.0	10116.3	9374.4	8644.6	7920.7	7208.8	6508.9
-2.5°	13537.2	12880.1	12224.3	11529.7	10810.6	10062.6	9321.9	8596.8	7877.5	7179.0	6476.4
-5°	13409.2	12768.2	12114.0	11434.4	10716.4	9973.7	9239.8	8520.8	7807.3	7117.1	6414.8
-7.5°	13242.5	12604.4	11952.2	11282.1	10570.6	9842.0	9125.1	8419.8	7718.9	7032.7	6345.1
-10°	13016.7	12396.8	11765.7	11093.3	10382.9	9665.5	8969.6	8280.4	7594.6	6917.2	6247.2
-12.5°	12687.2	12117.0	11520.6	10857.0	10160.5	9465.6	8789.8	8107.0	7435.3	6772.3	6121.8
-15°	12320.1	11775.5	11178.2	10550.8	9894.7	9228.6	8578.7	7900.8	7248.0	6603.0	5969.6
-17.5°	11915.9	11370.8	10781.1	10186.1	9571.5	8961.6	8318.1	7665.3	7037.4	6418.0	5800.5
-20°	11457.4	10920.8	10358.6	9794.1	9216.9	8637.6	8010.3	7398.9	6806.3	6208.8	5617.6



REPORT NUMBER: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	10940.5	10440.8	9914.3	9378.4	8832.5	8266.4	7680.9	7106.2	6555.3	5973.3	5409.8
-25°	10380.0	9923.6	9435.1	8934.0	8415.2	7876.4	7327.4	6794.1	6261.7	5719.8	5180.5
-27.5°	9797.6	9374.9	8932.0	8463.0	7973.6	7468.1	6957.4	6453.4	5943.5	5437.0	4945.3
-30°	9199.2	8811.9	8404.3	7970.5	7512.4	7041.3	6565.9	6093.6	5615.6	5139.3	4683.3
-32.5°	8588.4	8238.6	7862.4	7460.8	7038.4	6605.8	6166.9	5721.1	5272.6	4839.8	4408.7
-35°	7982.8	7659.9	7311.0	6944.1	6560.4	6162.8	5754.6	5341.8	4932.1	4526.7	4121.9
-37.5°	7371.6	7076.7	6760.5	6424.7	6075.9	5712.8	5340.7	4963.8	4582.9	4208.1	3834.5
-40°	6775.8	6502.8	6211.0	5905.9	5594.6	5266.8	4928.7	4580.5	4235.1	3886.8	3542.3
-42.5°	6193.3	5940.9	5673.2	5406.4	5120.9	4823.4	4514.5	4201.5	3883.4	3566.7	3262.2
-45°	5608.4	5384.1	5152.6	4909.9	4648.2	4382.6	4105.7	3821.6	3532.2	3257.5	2978.9
-47.5°	5027.0	4845.2	4638.6	4418.3	4189.4	3948.6	3701.8	3442.3	3201.7	2952.0	2714.4
-50°	4498.0	4330.1	4144.4	3945.3	3745.3	3529.6	3312.7	3097.1	2879.5	2664.2	2455.1
-52.5°	3977.2	3830.7	3669.5	3496.2	3316.4	3130.4	2940.8	2761.3	2569.4	2393.8	2219.3
-55°	3472.2	3349.8	3210.8	3058.2	2900.2	2756.9	2600.9	2444.7	2297.2	2142.1	1997.7
-57.5°	2998.0	2894.3	2783.6	2665.2	2539.9	2416.4	2291.7	2162.9	2040.5	1912.7	1781.6
-60°	2570.2	2485.9	2401.2	2308.3	2207.5	2101.9	2005.5	1903.1	1794.9	1690.0	1574.2
-62.5°	2184.3	2127.8	2054.0	1979.2	1902.8	1824.1	1739.3	1655.0	1569.4	1476.7	1371.2
-65°	1820.3	1775.7	1721.5	1669.9	1613.5	1552.2	1483.1	1414.5	1342.8	1264.2	1170.4
-67.5°	1489.1	1458.3	1420.9	1381.0	1340.7	1293.5	1239.4	1180.3	1121.7	1056.2	982.3
-70°	1209.2	1189.2	1162.8	1129.8	1097.3	1063.4	1023.1	974.7	917.9	859.0	805.0
-72.5°	982.6	970.0	952.3	928.0	899.3	868.5	831.0	786.9	738.2	684.8	636.4
-75°	796.1	790.5	779.2	754.5	724.8	690.0	653.9	614.1	567.5	514.0	468.2
-77.5°	631.4	632.1	627.0	600.1	570.5	538.2	501.2	455.9	410.4	364.5	329.5
-80°	463.7	466.8	463.7	436.7	409.3	381.6	352.3	314.6	276.4	240.2	212.9
-82.5°	287.6	286.3	282.2	266.0	249.6	233.1	215.8	190.0	164.7	140.1	118.5
-85°	137.0	131.6	126.0	119.9	113.6	107.0	99.9	87.6	76.1	65.5	56.3
-87.5°	22.5	22.1	21.7	21.2	20.7	20.2	19.6	19.0	18.3	17.6	16.9
-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: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4D-730-U-VWR-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°	17.2	17.3	17.3	17.1	15.2	13.4	11.7	10.1	9.1	8.2	7.2
85°	56.5	55.2	52.2	47.3	37.3	26.8	23.4	20.2	18.3	16.3	14.4
82.5°	118.2	119.3	119.3	115.7	102.1	87.8	72.8	57.2	42.4	26.9	21.5
80°	213.3	211.0	206.0	196.3	173.9	148.7	129.6	109.9	90.6	70.5	49.6
77.5°	322.5	313.3	302.0	289.3	265.5	237.7	205.6	169.4	138.7	113.9	88.1
75°	444.5	429.8	414.0	392.7	362.3	327.4	292.2	249.9	202.9	158.6	126.4
72.5°	597.6	562.1	530.3	500.4	467.4	428.5	383.6	329.1	272.0	218.1	167.5
70°	752.6	699.3	651.8	611.1	571.3	530.5	481.2	414.0	339.8	276.3	216.8
67.5°	910.0	847.0	783.4	722.5	672.3	624.2	576.6	498.5	413.5	333.3	264.9
65°	1083.7	999.7	918.9	843.6	775.5	715.4	659.6	577.6	484.9	394.8	311.8
62.5°	1262.6	1155.4	1059.7	963.8	878.9	805.9	738.8	648.4	553.2	454.3	360.7
60°	1450.8	1328.7	1201.5	1089.4	985.4	893.1	811.8	718.2	617.2	511.5	409.3
57.5°	1648.9	1505.4	1362.4	1220.8	1095.8	985.1	882.9	784.4	680.0	567.9	454.5
55°	1849.5	1695.0	1526.0	1366.3	1212.9	1081.2	958.0	847.9	740.7	623.4	493.6
52.5°	2050.5	1880.7	1699.3	1514.9	1343.2	1178.3	1040.6	909.7	796.6	677.7	534.3
50°	2260.7	2066.0	1871.6	1672.4	1472.8	1292.1	1120.4	980.7	850.8	729.1	572.9
47.5°	2479.5	2262.5	2046.2	1828.5	1614.5	1401.0	1213.6	1050.1	903.3	775.8	608.8
45°	2719.2	2465.5	2226.1	1990.6	1748.6	1518.6	1308.0	1116.6	962.7	812.1	641.9
42.5°	2958.8	2679.8	2412.3	2150.4	1889.0	1635.5	1397.4	1194.8	1019.4	846.8	672.3
40°	3213.7	2894.8	2598.3	2314.1	2026.2	1746.6	1496.5	1271.1	1072.6	882.9	701.1
37.5°	3461.5	3115.3	2789.4	2470.4	2160.5	1866.7	1591.7	1342.6	1123.1	923.4	728.5
35°	3723.8	3336.8	2966.0	2627.8	2298.8	1980.5	1680.9	1414.6	1181.3	962.8	754.2
32.5°	3977.2	3553.3	3155.8	2783.0	2430.9	2087.8	1772.7	1491.0	1237.2	1001.1	778.3
30°	4226.3	3770.7	3337.5	2929.8	2558.9	2200.4	1864.6	1562.3	1290.6	1038.1	802.4
27.5°	4455.8	3971.9	3511.7	3081.6	2684.6	2307.2	1951.5	1628.5	1341.3	1076.1	830.4
25°	4669.7	4165.6	3683.5	3227.6	2801.3	2408.3	2031.5	1689.7	1392.9	1115.8	856.4
22.5°	4870.4	4345.5	3839.1	3362.0	2909.4	2501.2	2109.5	1754.9	1441.7	1152.4	880.2
20°	5052.8	4507.4	3978.5	3483.9	3014.6	2589.7	2184.6	1813.4	1485.4	1185.5	901.6
17.5°	5217.1	4655.4	4111.6	3597.9	3112.5	2668.4	2251.3	1864.9	1523.7	1215.0	920.4
15°	5369.6	4790.0	4229.1	3697.4	3197.3	2736.8	2309.3	1909.4	1556.6	1240.7	938.4
12.5°	5500.7	4905.4	4328.9	3781.9	3268.7	2794.8	2358.3	1946.6	1583.8	1264.0	955.3
10°	5608.6	5000.8	4410.4	3851.0	3326.5	2842.0	2398.2	1977.9	1609.4	1284.0	968.3
7.5°	5692.6	5075.5	4473.2	3904.3	3372.3	2881.5	2432.2	2005.0	1630.0	1299.4	977.5
5°	5756.3	5133.8	4527.9	3948.9	3414.5	2913.3	2456.9	2024.4	1645.0	1310.0	982.6
2.5°	5812.9	5177.5	4570.8	3977.9	3443.1	2934.0	2471.7	2036.1	1654.0	1315.6	983.8
0°	5844.8	5198.7	4594.5	3990.3	3457.8	2943.3	2476.7	2040.0	1657.1	1316.1	981.1
-2.5°	5812.9	5177.5	4570.8	3977.9	3443.1	2934.0	2471.7	2036.1	1654.0	1315.6	983.8
-5°	5756.3	5133.8	4527.9	3948.9	3414.5	2913.3	2456.9	2024.4	1645.0	1310.0	982.6
-7.5°	5692.6	5075.5	4473.2	3904.3	3372.3	2881.5	2432.2	2005.0	1630.0	1299.4	977.5
-10°	5608.6	5000.8	4410.4	3851.0	3326.5	2842.0	2398.2	1977.9	1609.4	1284.0	968.3
-12.5°	5500.7	4905.4	4328.9	3781.9	3268.7	2794.8	2358.3	1946.6	1583.8	1264.0	955.3
-15°	5369.6	4790.0	4229.1	3697.4	3197.3	2736.8	2309.3	1909.4	1556.6	1240.7	938.4
-17.5°	5217.1	4655.4	4111.6	3597.9	3112.5	2668.4	2251.3	1864.9	1523.7	1215.0	920.4
-20°	5052.8	4507.4	3978.5	3483.9	3014.6	2589.7	2184.6	1813.4	1485.4	1185.5	901.6

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Cooper Lighting Solutions Photometric Lab
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Scaled Data Report



REPORT NUMBER: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4870.4	4345.5	3839.1	3362.0	2909.4	2501.2	2109.5	1754.9	1441.7	1152.4	880.2
-25°	4669.7	4165.6	3683.5	3227.6	2801.3	2408.3	2031.5	1689.7	1392.9	1115.8	856.4
-27.5°	4455.8	3971.9	3511.7	3081.6	2684.6	2307.2	1951.5	1628.5	1341.3	1076.1	830.4
-30°	4226.3	3770.7	3337.5	2929.8	2558.9	2200.4	1864.6	1562.3	1290.6	1038.1	802.4
-32.5°	3977.2	3553.3	3155.8	2783.0	2430.9	2087.8	1772.7	1491.0	1237.2	1001.1	778.3
-35°	3723.8	3336.8	2966.0	2627.8	2298.8	1980.5	1680.9	1414.6	1181.3	962.8	754.2
-37.5°	3461.5	3115.3	2789.4	2470.4	2160.5	1866.7	1591.7	1342.6	1123.1	923.4	728.5
-40°	3213.7	2894.8	2598.3	2314.1	2026.2	1746.6	1496.5	1271.1	1072.6	882.9	701.1
-42.5°	2958.8	2679.8	2412.3	2150.4	1889.0	1635.5	1397.4	1194.8	1019.4	846.8	672.3
-45°	2719.2	2465.5	2226.1	1990.6	1748.6	1518.6	1308.0	1116.6	962.7	812.1	641.9
-47.5°	2479.5	2262.5	2046.2	1828.5	1614.5	1401.0	1213.6	1050.1	903.3	775.8	608.8
-50°	2260.7	2066.0	1871.6	1672.4	1472.8	1292.1	1120.4	980.7	850.8	729.1	572.9
-52.5°	2050.5	1880.7	1699.3	1514.9	1343.2	1178.3	1040.6	909.7	796.6	677.7	534.3
-55°	1849.5	1695.0	1526.0	1366.3	1212.9	1081.2	958.0	847.9	740.7	623.4	493.6
-57.5°	1648.9	1505.4	1362.4	1220.8	1095.8	985.1	882.9	784.4	680.0	567.9	454.5
-60°	1450.8	1328.7	1201.5	1089.4	985.4	893.1	811.8	718.2	617.2	511.5	409.3
-62.5°	1262.6	1155.4	1059.7	963.8	878.9	805.9	738.8	648.4	553.2	454.3	360.7
-65°	1083.7	999.7	918.9	843.6	775.5	715.4	659.6	577.6	484.9	394.8	311.8
-67.5°	910.0	847.0	783.4	722.5	672.3	624.2	576.6	498.5	413.5	333.3	264.9
-70°	752.6	699.3	651.8	611.1	571.3	530.5	481.2	414.0	339.8	276.3	216.8
-72.5°	597.6	562.1	530.3	500.4	467.4	428.5	383.6	329.1	272.0	218.1	167.5
-75°	444.5	429.8	414.0	392.7	362.3	327.4	292.2	249.9	202.9	158.6	126.4
-77.5°	322.5	313.3	302.0	289.3	265.5	237.7	205.6	169.4	138.7	113.9	88.1
-80°	213.3	211.0	206.0	196.3	173.9	148.7	129.6	109.9	90.6	70.5	49.6
-82.5°	118.2	119.3	119.3	115.7	102.1	87.8	72.8	57.2	42.4	26.9	21.5
-85°	56.5	55.2	52.2	47.3	37.3	26.8	23.4	20.2	18.3	16.3	14.4
-87.5°	17.2	17.3	17.3	17.1	15.2	13.4	11.7	10.1	9.1	8.2	7.2
-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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Scaled Data Report



REPORT NUMBER: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-VWR-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°	6.2	5.2	4.1	3.1	2.1	0.9	0.0
85°	12.4	10.3	8.3	6.2	4.2	1.8	0.0
82.5°	18.5	15.5	12.4	9.3	6.2	2.7	0.0
80°	27.9	20.6	16.5	12.4	8.3	3.6	0.0
77.5°	60.7	32.3	20.6	15.5	10.3	4.5	0.0
75°	92.8	55.9	26.8	18.5	12.3	5.4	0.0
72.5°	123.8	78.8	42.8	21.5	14.2	6.2	0.0
70°	154.9	100.9	58.2	25.8	16.1	7.1	0.0
67.5°	192.2	122.1	73.1	35.3	17.9	7.9	0.0
65°	227.8	145.8	87.2	44.5	19.7	8.7	0.0
62.5°	261.7	171.8	100.6	53.2	21.4	9.5	0.0
60°	293.6	196.4	113.2	61.5	23.1	10.2	0.0
57.5°	327.2	219.5	130.1	69.3	27.7	11.0	0.0
55°	359.0	241.0	146.1	76.6	32.3	11.7	0.0
52.5°	388.5	261.4	161.0	83.3	36.7	12.3	0.0
50°	415.5	283.0	174.7	89.4	40.8	13.0	0.0
47.5°	440.7	302.8	187.2	95.8	44.8	13.6	0.0
45°	468.9	320.6	198.5	104.1	48.6	14.2	0.0
42.5°	494.7	336.5	208.5	111.6	52.2	14.7	0.0
40°	518.0	350.3	218.5	119.3	55.6	15.2	0.0
37.5°	539.0	362.1	228.4	126.9	58.8	15.6	0.0
35°	557.4	375.8	236.9	134.0	61.7	16.1	0.0
32.5°	574.5	389.5	244.1	140.5	64.4	16.5	0.0
30°	592.3	401.2	249.8	146.5	66.9	16.8	0.0
27.5°	608.3	410.8	258.3	151.9	69.1	17.1	0.0
25°	622.3	418.5	266.4	156.8	71.1	17.4	0.0
22.5°	634.4	426.2	273.4	161.1	72.9	17.6	0.0
20°	644.3	436.8	279.5	164.8	74.4	17.8	0.0
17.5°	656.8	445.4	284.6	167.9	75.7	17.9	0.0
15°	669.7	452.2	288.7	170.4	76.7	18.0	0.0
12.5°	680.2	457.0	291.9	172.4	77.5	18.1	0.0
10°	688.2	460.1	294.0	173.7	78.0	18.1	0.0
7.5°	693.7	461.3	295.2	174.5	78.3	18.1	0.0
5°	696.5	460.8	295.5	174.7	78.4	18.1	0.0
2.5°	696.6	458.5	294.8	174.4	78.2	18.0	0.0
0°	694.0	454.7	293.1	173.5	77.8	17.9	0.0
-2.5°	696.6	458.5	294.8	174.4	78.2	18.0	0.0
-5°	696.5	460.8	295.5	174.7	78.4	18.1	0.0
-7.5°	693.7	461.3	295.2	174.5	78.3	18.1	0.0
-10°	688.2	460.1	294.0	173.7	78.0	18.1	0.0
-12.5°	680.2	457.0	291.9	172.4	77.5	18.1	0.0
-15°	669.7	452.2	288.7	170.4	76.7	18.0	0.0
-17.5°	656.8	445.4	284.6	167.9	75.7	17.9	0.0
-20°	644.3	436.8	279.5	164.8	74.4	17.8	0.0

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REPORT NUMBER: P627451 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	634.4	426.2	273.4	161.1	72.9	17.6	0.0
-25°	622.3	418.5	266.4	156.8	71.1	17.4	0.0
-27.5°	608.3	410.8	258.3	151.9	69.1	17.1	0.0
-30°	592.3	401.2	249.8	146.5	66.9	16.8	0.0
-32.5°	574.5	389.5	244.1	140.5	64.4	16.5	0.0
-35°	557.4	375.8	236.9	134.0	61.7	16.1	0.0
-37.5°	539.0	362.1	228.4	126.9	58.8	15.6	0.0
-40°	518.0	350.3	218.5	119.3	55.6	15.2	0.0
-42.5°	494.7	336.5	208.5	111.6	52.2	14.7	0.0
-45°	468.9	320.6	198.5	104.1	48.6	14.2	0.0
-47.5°	440.7	302.8	187.2	95.8	44.8	13.6	0.0
-50°	415.5	283.0	174.7	89.4	40.8	13.0	0.0
-52.5°	388.5	261.4	161.0	83.3	36.7	12.3	0.0
-55°	359.0	241.0	146.1	76.6	32.3	11.7	0.0
-57.5°	327.2	219.5	130.1	69.3	27.7	11.0	0.0
-60°	293.6	196.4	113.2	61.5	23.1	10.2	0.0
-62.5°	261.7	171.8	100.6	53.2	21.4	9.5	0.0
-65°	227.8	145.8	87.2	44.5	19.7	8.7	0.0
-67.5°	192.2	122.1	73.1	35.3	17.9	7.9	0.0
-70°	154.9	100.9	58.2	25.8	16.1	7.1	0.0
-72.5°	123.8	78.8	42.8	21.5	14.2	6.2	0.0
-75°	92.8	55.9	26.8	18.5	12.3	5.4	0.0
-77.5°	60.7	32.3	20.6	15.5	10.3	4.5	0.0
-80°	27.9	20.6	16.5	12.4	8.3	3.6	0.0
-82.5°	18.5	15.5	12.4	9.3	6.2	2.7	0.0
-85°	12.4	10.3	8.3	6.2	4.2	1.8	0.0
-87.5°	6.2	5.2	4.1	3.1	2.1	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)