

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA5C-727-U-VWR-XX

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-2019
Report Number: P627621 (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: 5/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA5C-727-U-VWR-XX
Description: GALLEON FLOOD, FIVE LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N114
Light Source: (80) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

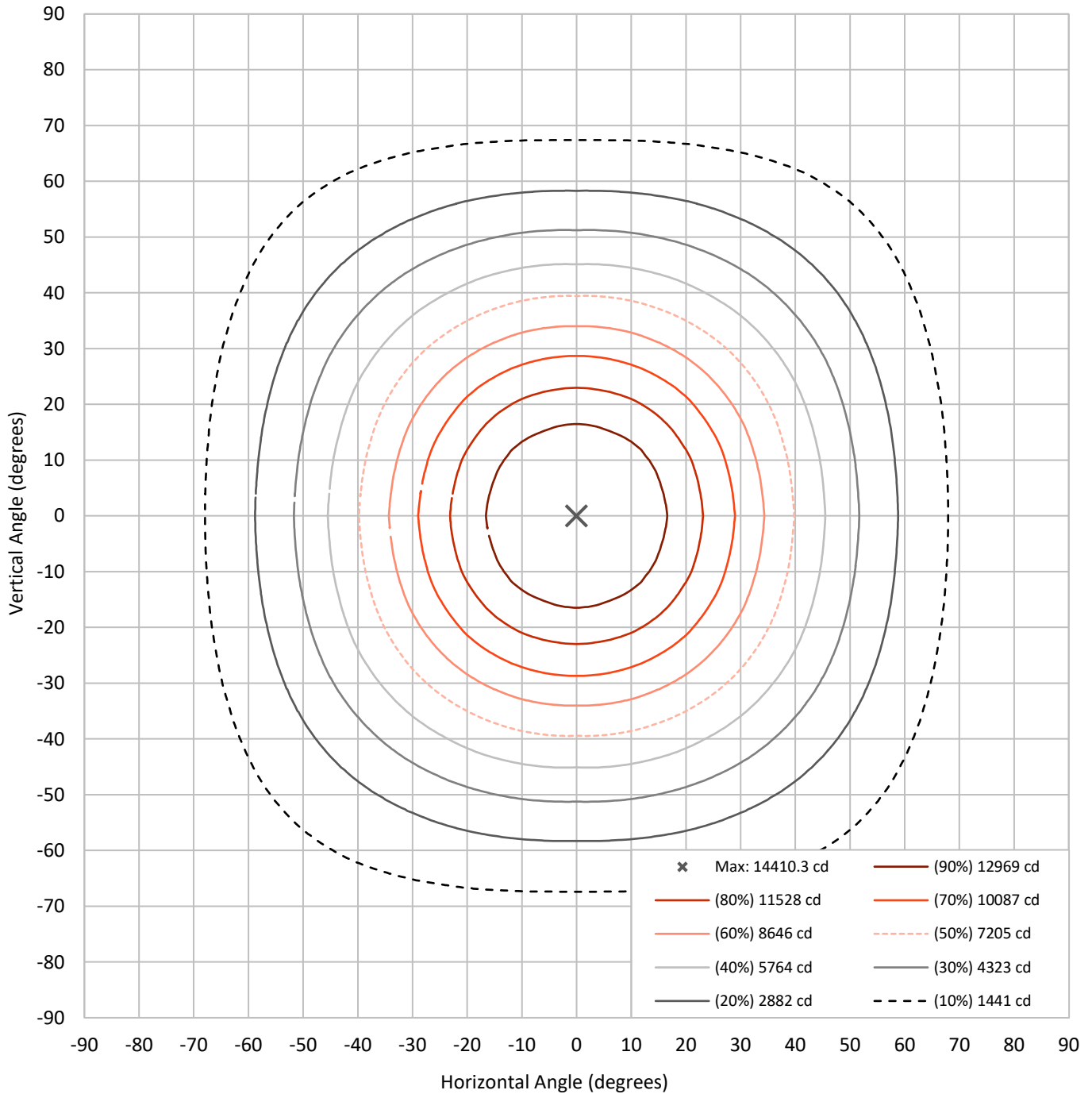
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26045.4 lumens	Max Intensity:	14410.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	15275.8 lumens	Field Lumens:	24829.8 lumens
Beam Efficiency:	58.7%	Field Efficiency:	95.3%
Input Watts (W):	206.13		
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





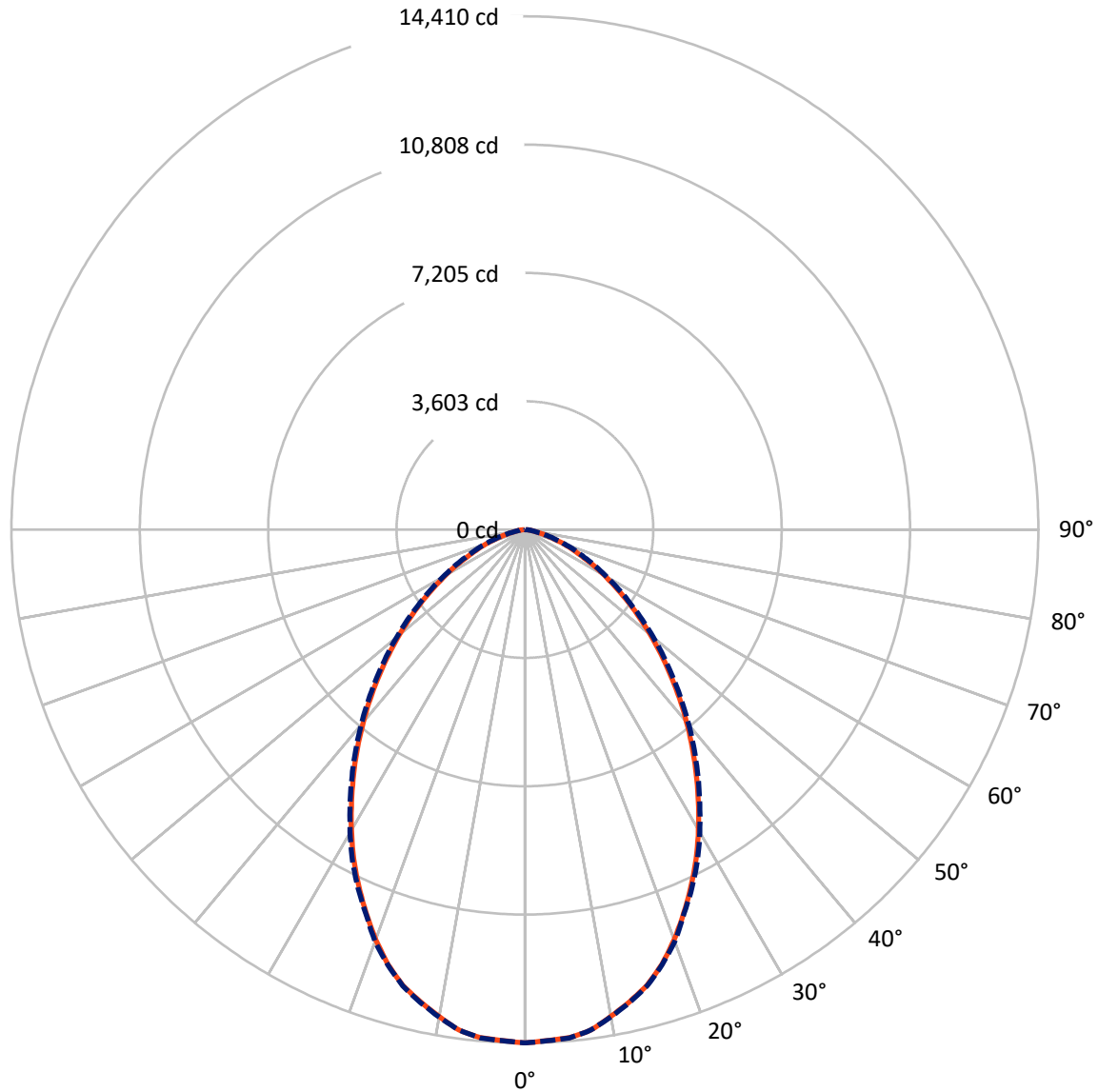
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Lumen Table

90																			
80	0.9	10.7	29.1	49.3	46.5	49.3	29.1	10.7	0.9										
70																			
60	4.8	6.7	13.5	23.0	33.6	43.4	50.8	54.3	54.3	50.8	43.4	33.6	23.0	13.5	6.7	4.8			
50		10.0	21.9	39.1	59.2	80.4	97.9	106.9	106.9	97.9	80.4	59.2	39.1	21.9	10.0				
40	8.5	13.5	31.7	58.5	92.6	128.4	158.4	174.8	174.8	158.4	128.4	92.6	58.5	31.7	13.5	8.5			
30		17.0	42.0	80.5	129.7	181.8	226.4	251.7	251.7	226.4	181.8	129.7	80.5	42.0	17.0				
20	10.9	20.4	51.6	101.2	165.1	234.4	294.8	329.5	329.5	294.8	234.4	165.1	101.2	51.6	20.4	10.9			
10		23.0	59.1	116.7	192.8	277.0	351.3	393.6	393.6	351.3	277.0	192.8	116.7	59.1	23.0				
0	11.9	24.4	63.2	125.5	208.1	300.6	381.9	426.3	426.3	381.9	300.6	208.1	125.5	63.2	24.4	11.9			
-10		24.4	63.2	125.5	208.1	300.6	381.9	426.3	426.3	381.9	300.6	208.1	125.5	63.2	24.4				
-20	10.9	23.0	59.1	116.7	192.8	277.0	351.3	393.6	393.6	351.3	277.0	192.8	116.7	59.1	23.0	10.9			
-30		20.4	51.6	101.2	165.1	234.4	294.8	329.5	329.5	294.8	234.4	165.1	101.2	51.6	20.4				
-40	8.5	17.0	42.0	80.5	129.7	181.8	226.4	251.7	251.7	226.4	181.8	129.7	80.5	42.0	17.0	8.5			
-50		13.5	31.7	58.5	92.6	128.4	158.4	174.8	174.8	158.4	128.4	92.6	58.5	31.7	13.5				
-60	4.8	10.0	21.9	39.1	59.2	80.4	97.9	106.9	106.9	97.9	80.4	59.2	39.1	21.9	10.0	4.8			
-70		6.7	13.5	23.0	33.6	43.4	50.8	54.3	54.3	50.8	43.4	33.6	23.0	13.5	6.7				
-80	0.9	10.7	29.1	49.3	46.5	49.3	29.1	10.7	0.9										
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
	Horizontal Angle (degrees)																		

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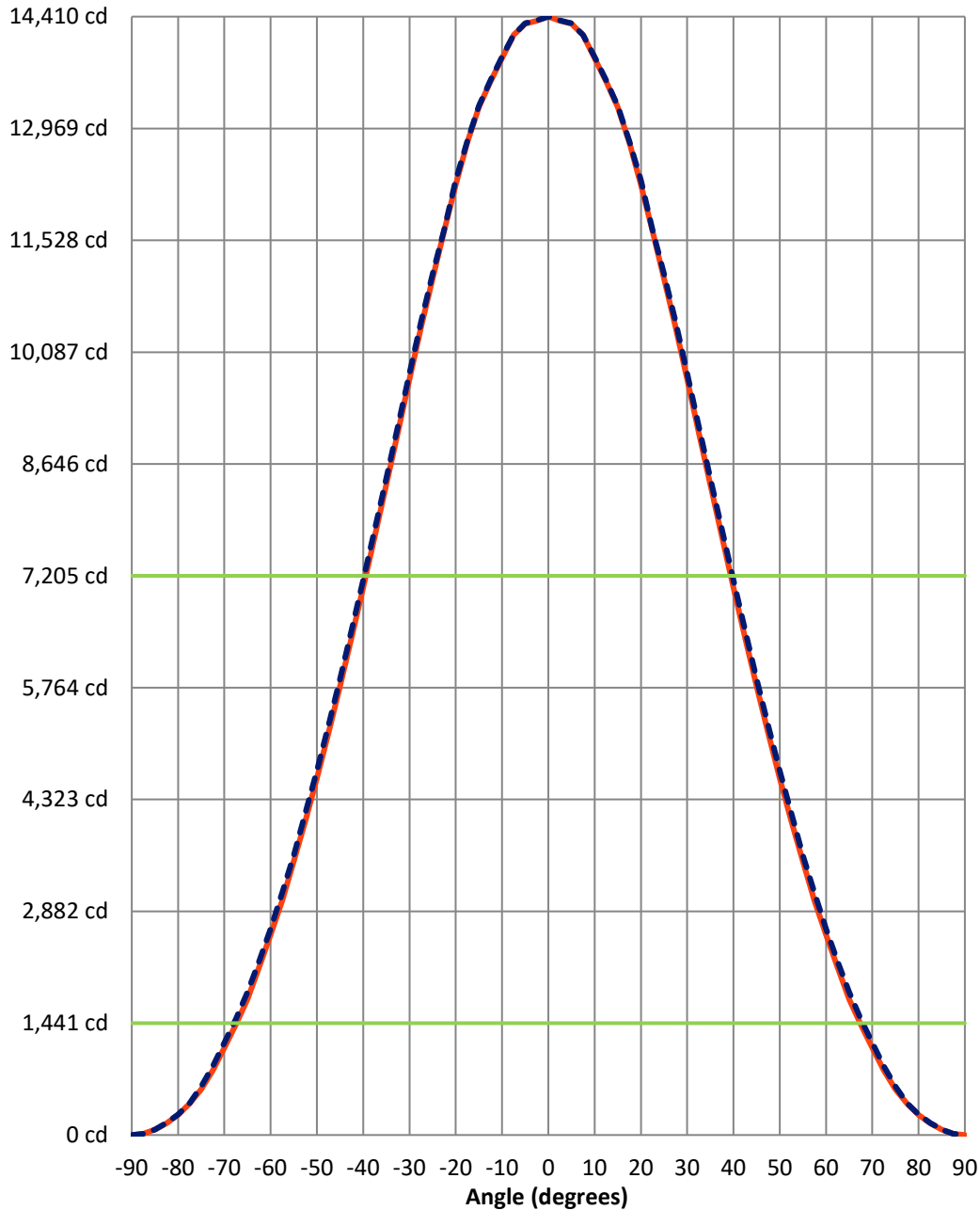
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 79.6°
 V Angle: 78.9°
 Lumens: 15275.8
 Efficiency: 58.7%

Field:
 H Angle: 135.9°
 V Angle: 134.8°
 Lumens: 24829.8
 Efficiency: 95.3%

Spill:
 Lumens: 1215.6
 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	0.8	1.9	2.8	3.7	4.7	5.6	6.5	7.4	8.3	9.1
85°	0.0	1.6	3.8	5.6	7.5	9.3	11.2	13.0	14.8	16.5	18.2
82.5°	0.0	2.5	5.6	8.4	11.2	14.0	16.7	19.4	24.3	38.3	51.7
80°	0.0	3.3	7.5	11.2	14.9	18.6	25.2	44.8	63.7	81.8	99.2
77.5°	0.0	4.1	9.3	14.0	18.6	29.2	54.8	79.6	102.8	125.2	152.8
75°	0.0	4.9	11.1	16.7	24.2	50.5	83.8	114.1	143.2	183.2	225.6
72.5°	0.0	5.6	12.8	19.4	38.6	71.2	111.8	151.2	196.9	245.6	297.1
70°	0.0	6.4	14.5	23.3	52.6	91.1	139.8	195.7	249.5	306.8	373.8
67.5°	0.0	7.2	16.2	31.9	66.0	110.3	173.5	239.2	300.9	373.3	450.1
65°	0.0	7.9	17.8	40.2	78.8	131.7	205.7	281.5	356.5	437.8	521.5
62.5°	0.0	8.6	19.4	48.1	90.9	155.1	236.3	325.7	410.1	499.5	585.4
60°	0.0	9.3	20.9	55.5	102.3	177.3	265.1	369.5	461.8	557.2	648.4
57.5°	0.0	9.9	25.1	62.6	117.4	198.2	295.4	410.4	512.7	613.9	708.1
55°	0.0	10.6	29.2	69.1	131.9	217.6	324.1	445.7	562.8	668.7	765.5
52.5°	0.0	11.2	33.1	75.2	145.4	236.0	350.7	482.4	611.8	719.2	821.3
50°	0.0	11.7	36.9	80.7	157.7	255.5	375.1	517.2	658.3	768.1	885.4
47.5°	0.0	12.3	40.5	86.5	169.0	273.3	397.9	549.6	700.4	815.5	948.1
45°	0.0	12.8	43.9	94.0	179.2	289.4	423.3	579.5	733.1	869.1	1008.1
42.5°	0.0	13.3	47.2	100.8	188.2	303.8	446.6	607.0	764.5	920.4	1078.7
40°	0.0	13.7	50.2	107.7	197.2	316.3	467.7	633.0	797.1	968.4	1147.6
37.5°	0.0	14.2	53.1	114.6	206.2	327.0	486.6	657.7	833.6	1014.0	1212.2
35°	0.0	14.5	55.7	121.0	213.9	339.3	503.3	680.9	869.3	1066.5	1277.2
32.5°	0.0	14.9	58.2	126.9	220.4	351.6	518.7	702.6	903.9	1117.0	1346.1
30°	0.0	15.2	60.4	132.3	225.5	362.2	534.8	724.4	937.2	1165.2	1410.5
27.5°	0.0	15.5	62.4	137.2	233.2	370.9	549.2	749.7	971.6	1211.0	1470.3
25°	0.0	15.7	64.2	141.5	240.5	377.8	561.9	773.1	1007.4	1257.6	1525.5
22.5°	0.0	15.9	65.8	145.4	246.9	384.8	572.7	794.6	1040.4	1301.7	1584.4
20°	0.0	16.1	67.2	148.7	252.4	394.4	581.7	814.0	1070.4	1341.1	1637.2
17.5°	0.0	16.2	68.3	151.5	257.0	402.2	592.9	831.0	1097.0	1375.7	1683.7
15°	0.0	16.3	69.2	153.8	260.7	408.3	604.6	847.3	1120.2	1405.3	1723.9
12.5°	0.0	16.4	69.9	155.6	263.6	412.6	614.1	862.5	1141.2	1429.9	1757.4
10°	0.0	16.4	70.4	156.8	265.5	415.4	621.3	874.3	1159.3	1453.0	1785.8
7.5°	0.0	16.4	70.7	157.5	266.6	416.5	626.2	882.5	1173.2	1471.7	1810.2
5°	0.0	16.4	70.7	157.7	266.8	416.0	628.7	887.2	1182.8	1485.1	1827.7
2.5°	0.0	16.3	70.6	157.4	266.2	414.0	628.9	888.3	1187.9	1493.3	1838.3
0°	0.0	16.2	70.2	156.6	264.7	410.5	626.5	885.8	1188.3	1496.1	1841.8
-2.5°	0.0	16.3	70.6	157.4	266.2	414.0	628.9	888.3	1187.9	1493.3	1838.3
-5°	0.0	16.4	70.7	157.7	266.8	416.0	628.7	887.2	1182.8	1485.1	1827.7
-7.5°	0.0	16.4	70.7	157.5	266.6	416.5	626.2	882.5	1173.2	1471.7	1810.2
-10°	0.0	16.4	70.4	156.8	265.5	415.4	621.3	874.3	1159.3	1453.0	1785.8
-12.5°	0.0	16.4	69.9	155.6	263.6	412.6	614.1	862.5	1141.2	1429.9	1757.4
-15°	0.0	16.3	69.2	153.8	260.7	408.3	604.6	847.3	1120.2	1405.3	1723.9
-17.5°	0.0	16.2	68.3	151.5	257.0	402.2	592.9	831.0	1097.0	1375.7	1683.7
-20°	0.0	16.1	67.2	148.7	252.4	394.4	581.7	814.0	1070.4	1341.1	1637.2

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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	15.9	65.8	145.4	246.9	384.8	572.7	794.6	1040.4	1301.7	1584.4
-25°	0.0	15.7	64.2	141.5	240.5	377.8	561.9	773.1	1007.4	1257.6	1525.5
-27.5°	0.0	15.5	62.4	137.2	233.2	370.9	549.2	749.7	971.6	1211.0	1470.3
-30°	0.0	15.2	60.4	132.3	225.5	362.2	534.8	724.4	937.2	1165.2	1410.5
-32.5°	0.0	14.9	58.2	126.9	220.4	351.6	518.7	702.6	903.9	1117.0	1346.1
-35°	0.0	14.5	55.7	121.0	213.9	339.3	503.3	680.9	869.3	1066.5	1277.2
-37.5°	0.0	14.2	53.1	114.6	206.2	327.0	486.6	657.7	833.6	1014.0	1212.2
-40°	0.0	13.7	50.2	107.7	197.2	316.3	467.7	633.0	797.1	968.4	1147.6
-42.5°	0.0	13.3	47.2	100.8	188.2	303.8	446.6	607.0	764.5	920.4	1078.7
-45°	0.0	12.8	43.9	94.0	179.2	289.4	423.3	579.5	733.1	869.1	1008.1
-47.5°	0.0	12.3	40.5	86.5	169.0	273.3	397.9	549.6	700.4	815.5	948.1
-50°	0.0	11.7	36.9	80.7	157.7	255.5	375.1	517.2	658.3	768.1	885.4
-52.5°	0.0	11.2	33.1	75.2	145.4	236.0	350.7	482.4	611.8	719.2	821.3
-55°	0.0	10.6	29.2	69.1	131.9	217.6	324.1	445.7	562.8	668.7	765.5
-57.5°	0.0	9.9	25.1	62.6	117.4	198.2	295.4	410.4	512.7	613.9	708.1
-60°	0.0	9.3	20.9	55.5	102.3	177.3	265.1	369.5	461.8	557.2	648.4
-62.5°	0.0	8.6	19.4	48.1	90.9	155.1	236.3	325.7	410.1	499.5	585.4
-65°	0.0	7.9	17.8	40.2	78.8	131.7	205.7	281.5	356.5	437.8	521.5
-67.5°	0.0	7.2	16.2	31.9	66.0	110.3	173.5	239.2	300.9	373.3	450.1
-70°	0.0	6.4	14.5	23.3	52.6	91.1	139.8	195.7	249.5	306.8	373.8
-72.5°	0.0	5.6	12.8	19.4	38.6	71.2	111.8	151.2	196.9	245.6	297.1
-75°	0.0	4.9	11.1	16.7	24.2	50.5	83.8	114.1	143.2	183.2	225.6
-77.5°	0.0	4.1	9.3	14.0	18.6	29.2	54.8	79.6	102.8	125.2	152.8
-80°	0.0	3.3	7.5	11.2	14.9	18.6	25.2	44.8	63.7	81.8	99.2
-82.5°	0.0	2.5	5.6	8.4	11.2	14.0	16.7	19.4	24.3	38.3	51.7
-85°	0.0	1.6	3.8	5.6	7.5	9.3	11.2	13.0	14.8	16.5	18.2
-87.5°	0.0	0.8	1.9	2.8	3.7	4.7	5.6	6.5	7.4	8.3	9.1
-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°	10.6	12.1	13.8	15.5	15.6	15.6	15.5	15.3	15.9	16.5	17.1
85°	21.1	24.2	33.7	42.7	47.1	49.8	51.0	50.8	59.1	68.7	79.1
82.5°	65.7	79.2	92.2	104.4	107.6	107.7	106.6	107.0	126.4	148.7	171.5
80°	117.0	134.2	157.0	177.2	186.0	190.5	192.6	192.2	216.8	249.6	284.0
77.5°	185.6	214.6	239.7	261.2	272.7	282.9	291.1	297.5	329.1	370.5	411.6
75°	263.8	295.6	327.1	354.6	373.8	388.1	401.3	422.7	464.1	512.4	554.4
72.5°	346.3	386.9	422.0	451.8	478.8	507.4	539.5	574.6	618.3	666.5	710.4
70°	434.5	479.0	515.8	551.7	588.4	631.3	679.4	726.8	775.5	828.7	879.9
67.5°	520.6	563.6	606.9	652.2	707.3	764.7	821.6	886.8	953.6	1012.7	1065.5
65°	595.5	645.9	700.1	761.6	829.6	902.5	978.4	1056.6	1141.4	1212.3	1277.1
62.5°	667.0	727.6	793.5	870.2	956.8	1043.2	1140.0	1238.0	1333.3	1416.9	1494.2
60°	732.9	806.3	889.6	983.6	1084.7	1199.6	1309.8	1421.2	1525.8	1620.4	1718.2
57.5°	797.0	889.4	989.3	1102.1	1230.1	1359.1	1488.6	1608.5	1726.8	1842.2	1952.7
55°	864.9	976.1	1095.1	1233.5	1377.7	1530.3	1669.8	1803.6	1934.0	2074.0	2207.2
52.5°	939.5	1063.8	1212.7	1367.7	1534.2	1698.0	1851.2	2003.6	2161.2	2319.7	2493.1
50°	1011.5	1166.5	1329.7	1509.9	1689.8	1865.2	2041.0	2216.5	2405.4	2599.8	2796.2
47.5°	1095.7	1264.8	1457.6	1650.8	1847.4	2042.6	2238.5	2450.7	2665.2	2890.6	3107.9
45°	1180.9	1371.0	1578.6	1797.2	2009.8	2226.0	2455.0	2689.5	2941.1	3189.0	3450.3
42.5°	1261.7	1476.5	1705.4	1941.4	2177.9	2419.5	2671.3	2945.3	3220.1	3506.1	3793.3
40°	1351.1	1576.9	1829.3	2089.3	2345.9	2613.6	2901.5	3198.2	3509.1	3823.6	4135.4
37.5°	1437.0	1685.3	1950.6	2230.4	2518.4	2812.6	3125.2	3461.9	3799.2	4137.6	4481.5
35°	1517.5	1788.1	2075.5	2372.5	2677.9	3012.6	3362.0	3721.4	4086.9	4452.9	4822.8
32.5°	1600.4	1885.0	2194.7	2512.7	2849.2	3208.1	3590.8	3980.3	4369.5	4760.3	5165.2
30°	1683.4	1986.6	2310.3	2645.2	3013.3	3404.3	3815.7	4228.2	4640.0	5070.0	5501.6
27.5°	1761.9	2083.0	2423.8	2782.2	3170.6	3586.1	4022.9	4464.9	4908.8	5366.0	5826.3
25°	1834.1	2174.4	2529.2	2914.0	3325.6	3760.9	4216.0	4677.2	5164.0	5653.3	6134.0
22.5°	1904.5	2258.2	2626.8	3035.4	3466.1	3923.3	4397.2	4884.2	5392.9	5918.4	6415.8
20°	1972.3	2338.2	2721.7	3145.5	3592.0	4069.5	4561.9	5071.8	5605.6	6145.0	6680.0
17.5°	2032.5	2409.2	2810.2	3248.4	3712.1	4203.1	4710.2	5236.9	5794.5	6353.7	6920.5
15°	2084.9	2471.0	2886.7	3338.2	3818.3	4324.6	4847.9	5389.6	5961.5	6543.8	7133.1
12.5°	2129.2	2523.3	2951.2	3414.5	3908.4	4428.8	4966.2	5527.0	6114.3	6712.8	7319.3
10°	2165.3	2565.9	3003.4	3476.8	3981.9	4514.9	5063.7	5640.3	6245.2	6856.7	7475.9
7.5°	2195.9	2601.5	3044.7	3525.0	4038.6	4582.3	5139.5	5728.6	6349.4	6968.9	7601.7
5°	2218.2	2630.3	3082.8	3565.3	4087.9	4635.0	5197.0	5791.6	6425.6	7048.8	7692.9
2.5°	2231.6	2649.0	3108.6	3591.4	4126.7	4674.5	5248.1	5847.2	6481.5	7112.2	7761.5
0°	2236.1	2657.4	3121.9	3602.6	4148.1	4693.6	5276.9	5876.5	6508.4	7151.1	7804.7
-2.5°	2231.6	2649.0	3108.6	3591.4	4126.7	4674.5	5248.1	5847.2	6481.5	7112.2	7761.5
-5°	2218.2	2630.3	3082.8	3565.3	4087.9	4635.0	5197.0	5791.6	6425.6	7048.8	7692.9
-7.5°	2195.9	2601.5	3044.7	3525.0	4038.6	4582.3	5139.5	5728.6	6349.4	6968.9	7601.7
-10°	2165.3	2565.9	3003.4	3476.8	3981.9	4514.9	5063.7	5640.3	6245.2	6856.7	7475.9
-12.5°	2129.2	2523.3	2951.2	3414.5	3908.4	4428.8	4966.2	5527.0	6114.3	6712.8	7319.3
-15°	2084.9	2471.0	2886.7	3338.2	3818.3	4324.6	4847.9	5389.6	5961.5	6543.8	7133.1
-17.5°	2032.5	2409.2	2810.2	3248.4	3712.1	4203.1	4710.2	5236.9	5794.5	6353.7	6920.5
-20°	1972.3	2338.2	2721.7	3145.5	3592.0	4069.5	4561.9	5071.8	5605.6	6145.0	6680.0

Classified

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

Scaled Data Report



REPORT NUMBER: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA5C-727-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°	1904.5	2258.2	2626.8	3035.4	3466.1	3923.3	4397.2	4884.2	5392.9	5918.4	6415.8
-25°	1834.1	2174.4	2529.2	2914.0	3325.6	3760.9	4216.0	4677.2	5164.0	5653.3	6134.0
-27.5°	1761.9	2083.0	2423.8	2782.2	3170.6	3586.1	4022.9	4464.9	4908.8	5366.0	5826.3
-30°	1683.4	1986.6	2310.3	2645.2	3013.3	3404.3	3815.7	4228.2	4640.0	5070.0	5501.6
-32.5°	1600.4	1885.0	2194.7	2512.7	2849.2	3208.1	3590.8	3980.3	4369.5	4760.3	5165.2
-35°	1517.5	1788.1	2075.5	2372.5	2677.9	3012.6	3362.0	3721.4	4086.9	4452.9	4822.8
-37.5°	1437.0	1685.3	1950.6	2230.4	2518.4	2812.6	3125.2	3461.9	3799.2	4137.6	4481.5
-40°	1351.1	1576.9	1829.3	2089.3	2345.9	2613.6	2901.5	3198.2	3509.1	3823.6	4135.4
-42.5°	1261.7	1476.5	1705.4	1941.4	2177.9	2419.5	2671.3	2945.3	3220.1	3506.1	3793.3
-45°	1180.9	1371.0	1578.6	1797.2	2009.8	2226.0	2455.0	2689.5	2941.1	3189.0	3450.3
-47.5°	1095.7	1264.8	1457.6	1650.8	1847.4	2042.6	2238.5	2450.7	2665.2	2890.6	3107.9
-50°	1011.5	1166.5	1329.7	1509.9	1689.8	1865.2	2041.0	2216.5	2405.4	2599.8	2796.2
-52.5°	939.5	1063.8	1212.7	1367.7	1534.2	1698.0	1851.2	2003.6	2161.2	2319.7	2493.1
-55°	864.9	976.1	1095.1	1233.5	1377.7	1530.3	1669.8	1803.6	1934.0	2074.0	2207.2
-57.5°	797.0	889.4	989.3	1102.1	1230.1	1359.1	1488.6	1608.5	1726.8	1842.2	1952.7
-60°	732.9	806.3	889.6	983.6	1084.7	1199.6	1309.8	1421.2	1525.8	1620.4	1718.2
-62.5°	667.0	727.6	793.5	870.2	956.8	1043.2	1140.0	1238.0	1333.3	1416.9	1494.2
-65°	595.5	645.9	700.1	761.6	829.6	902.5	978.4	1056.6	1141.4	1212.3	1277.1
-67.5°	520.6	563.6	606.9	652.2	707.3	764.7	821.6	886.8	953.6	1012.7	1065.5
-70°	434.5	479.0	515.8	551.7	588.4	631.3	679.4	726.8	775.5	828.7	879.9
-72.5°	346.3	386.9	422.0	451.8	478.8	507.4	539.5	574.6	618.3	666.5	710.4
-75°	263.8	295.6	327.1	354.6	373.8	388.1	401.3	422.7	464.1	512.4	554.4
-77.5°	185.6	214.6	239.7	261.2	272.7	282.9	291.1	297.5	329.1	370.5	411.6
-80°	117.0	134.2	157.0	177.2	186.0	190.5	192.6	192.2	216.8	249.6	284.0
-82.5°	65.7	79.2	92.2	104.4	107.6	107.7	106.6	107.0	126.4	148.7	171.5
-85°	21.1	24.2	33.7	42.7	47.1	49.8	51.0	50.8	59.1	68.7	79.1
-87.5°	10.6	12.1	13.8	15.5	15.6	15.6	15.5	15.3	15.9	16.5	17.1
-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: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-727-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°	17.7	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	19.8	18.6
85°	90.2	96.6	102.5	108.2	113.7	118.8	123.6	128.1	132.3	120.8	108.1
82.5°	194.8	210.5	225.3	240.1	254.8	258.5	259.7	259.2	257.1	237.0	214.6
80°	318.1	344.5	369.5	394.3	418.7	421.4	418.6	413.6	406.5	380.1	350.1
77.5°	452.5	485.9	515.0	541.7	566.1	570.7	570.0	568.8	566.8	539.8	507.2
75°	590.4	623.0	654.4	681.2	703.5	713.7	718.8	722.3	724.3	704.9	679.5
72.5°	750.2	784.2	811.9	837.9	859.8	875.7	887.1	895.8	901.6	895.8	885.4
70°	923.7	960.0	990.6	1020.0	1049.8	1073.7	1091.7	1104.8	1113.1	1118.5	1122.4
67.5°	1118.9	1167.8	1210.4	1246.8	1282.9	1316.6	1344.4	1367.1	1384.6	1399.4	1410.9
65°	1339.0	1401.4	1456.8	1507.6	1554.2	1603.2	1643.4	1677.1	1704.3	1726.8	1744.8
62.5°	1570.3	1646.8	1717.9	1786.8	1854.4	1921.0	1972.1	2018.6	2059.9	2095.5	2123.8
60°	1810.7	1897.6	1993.0	2084.1	2167.9	2244.4	2320.5	2386.3	2442.6	2489.4	2527.1
57.5°	2069.1	2181.7	2293.2	2406.3	2513.1	2613.1	2706.7	2789.3	2859.0	2916.3	2964.4
55°	2348.2	2489.1	2618.4	2761.0	2898.8	3024.3	3134.8	3231.9	3315.8	3386.2	3445.9
52.5°	2655.1	2826.2	2994.2	3156.5	3313.0	3458.5	3590.8	3703.9	3804.4	3890.7	3959.5
50°	2990.9	3186.7	3381.4	3561.9	3741.7	3909.5	4061.1	4192.3	4309.3	4410.6	4490.3
47.5°	3342.1	3565.0	3782.4	3989.1	4188.0	4374.4	4538.6	4688.2	4834.1	4953.1	5047.2
45°	3706.8	3956.8	4196.6	4432.9	4652.0	4861.0	5063.5	5249.7	5399.5	5530.6	5640.7
42.5°	4075.9	4354.8	4623.4	4881.1	5122.0	5363.7	5591.5	5795.2	5965.9	6115.0	6240.1
40°	4449.8	4755.1	5051.0	5332.1	5607.5	5871.0	6117.5	6332.1	6524.7	6701.7	6849.2
37.5°	4821.8	5157.7	5485.6	5800.5	6103.7	6389.1	6655.4	6898.0	7115.3	7317.0	7480.7
35°	5195.5	5564.0	5923.0	6269.4	6600.7	6915.6	7207.2	7483.2	7739.4	7943.6	8111.2
32.5°	5567.7	5964.0	6354.6	6736.0	7098.5	7438.1	7754.0	8059.0	8322.5	8547.0	8739.7
30°	5928.0	6357.2	6782.5	7196.0	7587.7	7955.7	8305.4	8628.0	8911.3	9156.9	9372.9
27.5°	6281.4	6742.5	7198.9	7640.7	8064.2	8464.0	8845.7	9195.5	9504.7	9771.5	9999.4
25°	6615.4	7111.1	7597.5	8066.0	8518.3	8959.4	9371.5	9753.2	10083.5	10376.5	10610.6
22.5°	6934.6	7463.2	7974.3	8467.1	8951.0	9426.4	9877.5	10276.2	10626.2	10932.4	11191.5
20°	7231.9	7798.4	8321.3	8842.5	9352.2	9859.8	10344.2	10764.7	11135.1	11461.1	11746.7
17.5°	7509.9	8090.9	8641.5	9196.4	9733.6	10266.1	10758.2	11209.0	11608.5	11954.8	12253.9
15°	7745.3	8331.9	8933.3	9525.7	10092.2	10631.5	11123.1	11593.9	12037.6	12412.1	12715.3
12.5°	7935.8	8545.9	9173.3	9802.2	10401.3	10939.8	11454.5	11932.1	12398.1	12818.8	13097.6
10°	8098.1	8726.4	9374.1	10015.5	10622.6	11192.4	11752.0	12257.0	12714.9	13091.6	13402.9
7.5°	8238.5	8885.8	9543.5	10186.0	10791.0	11379.7	11955.8	12492.2	12954.5	13309.3	13587.0
5°	8342.1	9004.7	9675.1	10323.5	10937.0	11527.6	12106.3	12636.0	13087.2	13448.2	13751.1
2.5°	8416.1	9085.0	9760.2	10409.6	11036.6	11628.7	12221.9	12757.5	13194.5	13525.2	13815.2
0°	8463.6	9133.4	9813.9	10478.3	11094.0	11666.5	12303.9	12806.2	13259.9	13589.3	13891.8
-2.5°	8416.1	9085.0	9760.2	10409.6	11036.6	11628.7	12221.9	12757.5	13194.5	13525.2	13815.2
-5°	8342.1	9004.7	9675.1	10323.5	10937.0	11527.6	12106.3	12636.0	13087.2	13448.2	13751.1
-7.5°	8238.5	8885.8	9543.5	10186.0	10791.0	11379.7	11955.8	12492.2	12954.5	13309.3	13587.0
-10°	8098.1	8726.4	9374.1	10015.5	10622.6	11192.4	11752.0	12257.0	12714.9	13091.6	13402.9
-12.5°	7935.8	8545.9	9173.3	9802.2	10401.3	10939.8	11454.5	11932.1	12398.1	12818.8	13097.6
-15°	7745.3	8331.9	8933.3	9525.7	10092.2	10631.5	11123.1	11593.9	12037.6	12412.1	12715.3
-17.5°	7509.9	8090.9	8641.5	9196.4	9733.6	10266.1	10758.2	11209.0	11608.5	11954.8	12253.9
-20°	7231.9	7798.4	8321.3	8842.5	9352.2	9859.8	10344.2	10764.7	11135.1	11461.1	11746.7



REPORT NUMBER: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-727-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6934.6	7463.2	7974.3	8467.1	8951.0	9426.4	9877.5	10276.2	10626.2	10932.4	11191.5
-25°	6615.4	7111.1	7597.5	8066.0	8518.3	8959.4	9371.5	9753.2	10083.5	10376.5	10610.6
-27.5°	6281.4	6742.5	7198.9	7640.7	8064.2	8464.0	8845.7	9195.5	9504.7	9771.5	9999.4
-30°	5928.0	6357.2	6782.5	7196.0	7587.7	7955.7	8305.4	8628.0	8911.3	9156.9	9372.9
-32.5°	5567.7	5964.0	6354.6	6736.0	7098.5	7438.1	7754.0	8059.0	8322.5	8547.0	8739.7
-35°	5195.5	5564.0	5923.0	6269.4	6600.7	6915.6	7207.2	7483.2	7739.4	7943.6	8111.2
-37.5°	4821.8	5157.7	5485.6	5800.5	6103.7	6389.1	6655.4	6898.0	7115.3	7317.0	7480.7
-40°	4449.8	4755.1	5051.0	5332.1	5607.5	5871.0	6117.5	6332.1	6524.7	6701.7	6849.2
-42.5°	4075.9	4354.8	4623.4	4881.1	5122.0	5363.7	5591.5	5795.2	5965.9	6115.0	6240.1
-45°	3706.8	3956.8	4196.6	4432.9	4652.0	4861.0	5063.5	5249.7	5399.5	5530.6	5640.7
-47.5°	3342.1	3565.0	3782.4	3989.1	4188.0	4374.4	4538.6	4688.2	4834.1	4953.1	5047.2
-50°	2990.9	3186.7	3381.4	3561.9	3741.7	3909.5	4061.1	4192.3	4309.3	4410.6	4490.3
-52.5°	2655.1	2826.2	2994.2	3156.5	3313.0	3458.5	3590.8	3703.9	3804.4	3890.7	3959.5
-55°	2348.2	2489.1	2618.4	2761.0	2898.8	3024.3	3134.8	3231.9	3315.8	3386.2	3445.9
-57.5°	2069.1	2181.7	2293.2	2406.3	2513.1	2613.1	2706.7	2789.3	2859.0	2916.3	2964.4
-60°	1810.7	1897.6	1993.0	2084.1	2167.9	2244.4	2320.5	2386.3	2442.6	2489.4	2527.1
-62.5°	1570.3	1646.8	1717.9	1786.8	1854.4	1921.0	1972.1	2018.6	2059.9	2095.5	2123.8
-65°	1339.0	1401.4	1456.8	1507.6	1554.2	1603.2	1643.4	1677.1	1704.3	1726.8	1744.8
-67.5°	1118.9	1167.8	1210.4	1246.8	1282.9	1316.6	1344.4	1367.1	1384.6	1399.4	1410.9
-70°	923.7	960.0	990.6	1020.0	1049.8	1073.7	1091.7	1104.8	1113.1	1118.5	1122.4
-72.5°	750.2	784.2	811.9	837.9	859.8	875.7	887.1	895.8	901.6	895.8	885.4
-75°	590.4	623.0	654.4	681.2	703.5	713.7	718.8	722.3	724.3	704.9	679.5
-77.5°	452.5	485.9	515.0	541.7	566.1	570.7	570.0	568.8	566.8	539.8	507.2
-80°	318.1	344.5	369.5	394.3	418.7	421.4	418.6	413.6	406.5	380.1	350.1
-82.5°	194.8	210.5	225.3	240.1	254.8	258.5	259.7	259.2	257.1	237.0	214.6
-85°	90.2	96.6	102.5	108.2	113.7	118.8	123.6	128.1	132.3	120.8	108.1
-87.5°	17.7	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	19.8	18.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-727-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°	17.4	16.1	16.2	16.2	16.2	16.1	17.4	18.6	19.8	20.9	20.6
85°	94.7	80.6	75.5	70.2	75.5	80.6	94.7	108.1	120.8	132.3	128.1
82.5°	191.2	166.8	159.1	151.2	159.1	166.8	191.2	214.6	237.0	257.1	259.2
80°	318.6	285.5	272.6	259.3	272.6	285.5	318.6	350.1	380.1	406.5	413.6
77.5°	472.7	436.5	421.0	405.1	421.0	436.5	472.7	507.2	539.8	566.8	568.8
75°	652.8	624.4	607.2	588.7	607.2	624.4	652.8	679.5	704.9	724.3	722.3
72.5°	873.5	859.7	847.1	831.8	847.1	859.7	873.5	885.4	895.8	901.6	895.8
70°	1123.6	1121.8	1124.1	1123.4	1124.1	1121.8	1123.6	1122.4	1118.5	1113.1	1104.8
67.5°	1416.8	1417.2	1423.2	1425.9	1423.2	1417.2	1416.8	1410.9	1399.4	1384.6	1367.1
65°	1755.9	1760.0	1758.5	1750.0	1758.5	1760.0	1755.9	1744.8	1726.8	1704.3	1677.1
62.5°	2143.9	2155.6	2162.0	2160.5	2162.0	2155.6	2143.9	2123.8	2095.5	2059.9	2018.6
60°	2555.3	2573.5	2582.7	2581.8	2582.7	2573.5	2555.3	2527.1	2489.4	2442.6	2386.3
57.5°	3000.2	3023.6	3029.1	3019.3	3029.1	3023.6	3000.2	2964.4	2916.3	2859.0	2789.3
55°	3490.9	3520.9	3532.5	3527.0	3532.5	3520.9	3490.9	3445.9	3386.2	3315.8	3231.9
52.5°	4009.9	4042.3	4053.8	4045.5	4053.8	4042.3	4009.9	3959.5	3890.7	3804.4	3703.9
50°	4548.9	4588.1	4603.9	4596.4	4603.9	4588.1	4548.9	4490.3	4410.6	4309.3	4192.3
47.5°	5120.9	5173.2	5193.5	5179.7	5193.5	5173.2	5120.9	5047.2	4953.1	4834.1	4688.2
45°	5723.0	5777.2	5798.2	5784.6	5798.2	5777.2	5723.0	5640.7	5530.6	5399.5	5249.7
42.5°	6335.8	6406.2	6435.9	6411.2	6435.9	6406.2	6335.8	6240.1	6115.0	5965.9	5795.2
40°	6959.3	7035.7	7071.0	7053.9	7071.0	7035.7	6959.3	6849.2	6701.7	6524.7	6332.1
37.5°	7599.0	7675.0	7712.4	7712.9	7712.4	7675.0	7599.0	7480.7	7317.0	7115.3	6898.0
35°	8241.0	8333.0	8385.1	8382.6	8385.1	8333.0	8241.0	8111.2	7943.6	7739.4	7483.2
32.5°	8892.0	8991.6	9044.9	9052.4	9044.9	8991.6	8892.0	8739.7	8547.0	8322.5	8059.0
30°	9541.8	9651.4	9713.0	9738.3	9713.0	9651.4	9541.8	9372.9	9156.9	8911.3	8628.0
27.5°	10172.0	10306.9	10400.0	10408.0	10400.0	10306.9	10172.0	9999.4	9771.5	9504.7	9195.5
25°	10782.4	10919.7	11015.2	11034.6	11015.2	10919.7	10782.4	10610.6	10376.5	10083.5	9753.2
22.5°	11384.0	11527.5	11615.6	11650.3	11615.6	11527.5	11384.0	11191.5	10932.4	10626.2	10276.2
20°	11958.2	12113.8	12207.2	12244.4	12207.2	12113.8	11958.2	11746.7	11461.1	11135.1	10764.7
17.5°	12477.8	12642.2	12757.6	12790.0	12757.6	12642.2	12477.8	12253.9	11954.8	11608.5	11209.0
15°	12935.1	13090.9	13200.5	13243.7	13200.5	13090.9	12935.1	12715.3	12412.1	12037.6	11593.9
12.5°	13307.2	13446.6	13532.4	13573.1	13532.4	13446.6	13307.2	13097.6	12818.8	12398.1	11932.1
10°	13597.9	13737.8	13819.7	13875.6	13819.7	13737.8	13597.9	13402.9	13091.6	12714.9	12257.0
7.5°	13850.2	13993.6	14093.9	14172.7	14093.9	13993.6	13850.2	13587.0	13309.3	12954.5	12492.2
5°	13989.6	14228.9	14264.9	14318.5	14264.9	14228.9	13989.6	13751.1	13448.2	13087.2	12636.0
2.5°	14095.8	14265.5	14367.5	14356.3	14367.5	14265.5	14095.8	13815.2	13525.2	13194.5	12757.5
0°	14172.7	14323.9	14361.7	14410.3	14361.7	14323.9	14172.7	13891.8	13589.3	13259.9	12806.2
-2.5°	14095.8	14265.5	14367.5	14356.3	14367.5	14265.5	14095.8	13815.2	13525.2	13194.5	12757.5
-5°	13989.6	14228.9	14264.9	14318.5	14264.9	14228.9	13989.6	13751.1	13448.2	13087.2	12636.0
-7.5°	13850.2	13993.6	14093.9	14172.7	14093.9	13993.6	13850.2	13587.0	13309.3	12954.5	12492.2
-10°	13597.9	13737.8	13819.7	13875.6	13819.7	13737.8	13597.9	13402.9	13091.6	12714.9	12257.0
-12.5°	13307.2	13446.6	13532.4	13573.1	13532.4	13446.6	13307.2	13097.6	12818.8	12398.1	11932.1
-15°	12935.1	13090.9	13200.5	13243.7	13200.5	13090.9	12935.1	12715.3	12412.1	12037.6	11593.9
-17.5°	12477.8	12642.2	12757.6	12790.0	12757.6	12642.2	12477.8	12253.9	11954.8	11608.5	11209.0
-20°	11958.2	12113.8	12207.2	12244.4	12207.2	12113.8	11958.2	11746.7	11461.1	11135.1	10764.7



REPORT NUMBER: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-727-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°	11384.0	11527.5	11615.6	11650.3	11615.6	11527.5	11384.0	11191.5	10932.4	10626.2	10276.2
-25°	10782.4	10919.7	11015.2	11034.6	11015.2	10919.7	10782.4	10610.6	10376.5	10083.5	9753.2
-27.5°	10172.0	10306.9	10400.0	10408.0	10400.0	10306.9	10172.0	9999.4	9771.5	9504.7	9195.5
-30°	9541.8	9651.4	9713.0	9738.3	9713.0	9651.4	9541.8	9372.9	9156.9	8911.3	8628.0
-32.5°	8892.0	8991.6	9044.9	9052.4	9044.9	8991.6	8892.0	8739.7	8547.0	8322.5	8059.0
-35°	8241.0	8333.0	8385.1	8382.6	8385.1	8333.0	8241.0	8111.2	7943.6	7739.4	7483.2
-37.5°	7599.0	7675.0	7712.4	7712.9	7712.4	7675.0	7599.0	7480.7	7317.0	7115.3	6898.0
-40°	6959.3	7035.7	7071.0	7053.9	7071.0	7035.7	6959.3	6849.2	6701.7	6524.7	6332.1
-42.5°	6335.8	6406.2	6435.9	6411.2	6435.9	6406.2	6335.8	6240.1	6115.0	5965.9	5795.2
-45°	5723.0	5777.2	5798.2	5784.6	5798.2	5777.2	5723.0	5640.7	5530.6	5399.5	5249.7
-47.5°	5120.9	5173.2	5193.5	5179.7	5193.5	5173.2	5120.9	5047.2	4953.1	4834.1	4688.2
-50°	4548.9	4588.1	4603.9	4596.4	4603.9	4588.1	4548.9	4490.3	4410.6	4309.3	4192.3
-52.5°	4009.9	4042.3	4053.8	4045.5	4053.8	4042.3	4009.9	3959.5	3890.7	3804.4	3703.9
-55°	3490.9	3520.9	3532.5	3527.0	3532.5	3520.9	3490.9	3445.9	3386.2	3315.8	3231.9
-57.5°	3000.2	3023.6	3029.1	3019.3	3029.1	3023.6	3000.2	2964.4	2916.3	2859.0	2789.3
-60°	2555.3	2573.5	2582.7	2581.8	2582.7	2573.5	2555.3	2527.1	2489.4	2442.6	2386.3
-62.5°	2143.9	2155.6	2162.0	2160.5	2162.0	2155.6	2143.9	2123.8	2095.5	2059.9	2018.6
-65°	1755.9	1760.0	1758.5	1750.0	1758.5	1760.0	1755.9	1744.8	1726.8	1704.3	1677.1
-67.5°	1416.8	1417.2	1423.2	1425.9	1423.2	1417.2	1416.8	1410.9	1399.4	1384.6	1367.1
-70°	1123.6	1121.8	1124.1	1123.4	1124.1	1121.8	1123.6	1122.4	1118.5	1113.1	1104.8
-72.5°	873.5	859.7	847.1	831.8	847.1	859.7	873.5	885.4	895.8	901.6	895.8
-75°	652.8	624.4	607.2	588.7	607.2	624.4	652.8	679.5	704.9	724.3	722.3
-77.5°	472.7	436.5	421.0	405.1	421.0	436.5	472.7	507.2	539.8	566.8	568.8
-80°	318.6	285.5	272.6	259.3	272.6	285.5	318.6	350.1	380.1	406.5	413.6
-82.5°	191.2	166.8	159.1	151.2	159.1	166.8	191.2	214.6	237.0	257.1	259.2
-85°	94.7	80.6	75.5	70.2	75.5	80.6	94.7	108.1	120.8	132.3	128.1
-87.5°	17.4	16.1	16.2	16.2	16.2	16.1	17.4	18.6	19.8	20.9	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



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	20.0	19.6	19.2	18.7	18.2	17.7	17.1	16.5	15.9	15.3
85°	123.6	118.8	113.7	108.2	102.5	96.6	90.2	79.1	68.7	59.1	50.8
82.5°	259.7	258.5	254.8	240.1	225.3	210.5	194.8	171.5	148.7	126.4	107.0
80°	418.6	421.4	418.7	394.3	369.5	344.5	318.1	284.0	249.6	216.8	192.2
77.5°	570.0	570.7	566.1	541.7	515.0	485.9	452.5	411.6	370.5	329.1	297.5
75°	718.8	713.7	703.5	681.2	654.4	623.0	590.4	554.4	512.4	464.1	422.7
72.5°	887.1	875.7	859.8	837.9	811.9	784.2	750.2	710.4	666.5	618.3	574.6
70°	1091.7	1073.7	1049.8	1020.0	990.6	960.0	923.7	879.9	828.7	775.5	726.8
67.5°	1344.4	1316.6	1282.9	1246.8	1210.4	1167.8	1118.9	1065.5	1012.7	953.6	886.8
65°	1643.4	1603.2	1554.2	1507.6	1456.8	1401.4	1339.0	1277.1	1212.3	1141.4	1056.6
62.5°	1972.1	1921.0	1854.4	1786.8	1717.9	1646.8	1570.3	1494.2	1416.9	1333.3	1238.0
60°	2320.5	2244.4	2167.9	2084.1	1993.0	1897.6	1810.7	1718.2	1620.4	1525.8	1421.2
57.5°	2706.7	2613.1	2513.1	2406.3	2293.2	2181.7	2069.1	1952.7	1842.2	1726.8	1608.5
55°	3134.8	3024.3	2898.8	2761.0	2618.4	2489.1	2348.2	2207.2	2074.0	1934.0	1803.6
52.5°	3590.8	3458.5	3313.0	3156.5	2994.2	2826.2	2655.1	2493.1	2319.7	2161.2	2003.6
50°	4061.1	3909.5	3741.7	3561.9	3381.4	3186.7	2990.9	2796.2	2599.8	2405.4	2216.5
47.5°	4538.6	4374.4	4188.0	3989.1	3782.4	3565.0	3342.1	3107.9	2890.6	2665.2	2450.7
45°	5063.5	4861.0	4652.0	4432.9	4196.6	3956.8	3706.8	3450.3	3189.0	2941.1	2689.5
42.5°	5591.5	5363.7	5122.0	4881.1	4623.4	4354.8	4075.9	3793.3	3506.1	3220.1	2945.3
40°	6117.5	5871.0	5607.5	5332.1	5051.0	4755.1	4449.8	4135.4	3823.6	3509.1	3198.2
37.5°	6655.4	6389.1	6103.7	5800.5	5485.6	5157.7	4821.8	4481.5	4137.6	3799.2	3461.9
35°	7207.2	6915.6	6600.7	6269.4	5923.0	5564.0	5195.5	4822.8	4452.9	4086.9	3721.4
32.5°	7754.0	7438.1	7098.5	6736.0	6354.6	5964.0	5567.7	5165.2	4760.3	4369.5	3980.3
30°	8305.4	7955.7	7587.7	7196.0	6782.5	6357.2	5928.0	5501.6	5070.0	4640.0	4228.2
27.5°	8845.7	8464.0	8064.2	7640.7	7198.9	6742.5	6281.4	5826.3	5366.0	4908.8	4464.9
25°	9371.5	8959.4	8518.3	8066.0	7597.5	7111.1	6615.4	6134.0	5653.3	5164.0	4677.2
22.5°	9877.5	9426.4	8951.0	8467.1	7974.3	7463.2	6934.6	6415.8	5918.4	5392.9	4884.2
20°	10344.2	9859.8	9352.2	8842.5	8321.3	7798.4	7231.9	6680.0	6145.0	5605.6	5071.8
17.5°	10758.2	10266.1	9733.6	9196.4	8641.5	8090.9	7509.9	6920.5	6353.7	5794.5	5236.9
15°	11123.1	10631.5	10092.2	9525.7	8933.3	8331.9	7745.3	7133.1	6543.8	5961.5	5389.6
12.5°	11454.5	10939.8	10401.3	9802.2	9173.3	8545.9	7935.8	7319.3	6712.8	6114.3	5527.0
10°	11752.0	11192.4	10622.6	10015.5	9374.1	8726.4	8098.1	7475.9	6856.7	6245.2	5640.3
7.5°	11955.8	11379.7	10791.0	10186.0	9543.5	8885.8	8238.5	7601.7	6968.9	6349.4	5728.6
5°	12106.3	11527.6	10937.0	10323.5	9675.1	9004.7	8342.1	7692.9	7048.8	6425.6	5791.6
2.5°	12221.9	11628.7	11036.6	10409.6	9760.2	9085.0	8416.1	7761.5	7112.2	6481.5	5847.2
0°	12303.9	11666.5	11094.0	10478.3	9813.9	9133.4	8463.6	7804.7	7151.1	6508.4	5876.5
-2.5°	12221.9	11628.7	11036.6	10409.6	9760.2	9085.0	8416.1	7761.5	7112.2	6481.5	5847.2
-5°	12106.3	11527.6	10937.0	10323.5	9675.1	9004.7	8342.1	7692.9	7048.8	6425.6	5791.6
-7.5°	11955.8	11379.7	10791.0	10186.0	9543.5	8885.8	8238.5	7601.7	6968.9	6349.4	5728.6
-10°	11752.0	11192.4	10622.6	10015.5	9374.1	8726.4	8098.1	7475.9	6856.7	6245.2	5640.3
-12.5°	11454.5	10939.8	10401.3	9802.2	9173.3	8545.9	7935.8	7319.3	6712.8	6114.3	5527.0
-15°	11123.1	10631.5	10092.2	9525.7	8933.3	8331.9	7745.3	7133.1	6543.8	5961.5	5389.6
-17.5°	10758.2	10266.1	9733.6	9196.4	8641.5	8090.9	7509.9	6920.5	6353.7	5794.5	5236.9
-20°	10344.2	9859.8	9352.2	8842.5	8321.3	7798.4	7231.9	6680.0	6145.0	5605.6	5071.8



REPORT NUMBER: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-727-U-VWR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	9877.5	9426.4	8951.0	8467.1	7974.3	7463.2	6934.6	6415.8	5918.4	5392.9	4884.2
-25°	9371.5	8959.4	8518.3	8066.0	7597.5	7111.1	6615.4	6134.0	5653.3	5164.0	4677.2
-27.5°	8845.7	8464.0	8064.2	7640.7	7198.9	6742.5	6281.4	5826.3	5366.0	4908.8	4464.9
-30°	8305.4	7955.7	7587.7	7196.0	6782.5	6357.2	5928.0	5501.6	5070.0	4640.0	4228.2
-32.5°	7754.0	7438.1	7098.5	6736.0	6354.6	5964.0	5567.7	5165.2	4760.3	4369.5	3980.3
-35°	7207.2	6915.6	6600.7	6269.4	5923.0	5564.0	5195.5	4822.8	4452.9	4086.9	3721.4
-37.5°	6655.4	6389.1	6103.7	5800.5	5485.6	5157.7	4821.8	4481.5	4137.6	3799.2	3461.9
-40°	6117.5	5871.0	5607.5	5332.1	5051.0	4755.1	4449.8	4135.4	3823.6	3509.1	3198.2
-42.5°	5591.5	5363.7	5122.0	4881.1	4623.4	4354.8	4075.9	3793.3	3506.1	3220.1	2945.3
-45°	5063.5	4861.0	4652.0	4432.9	4196.6	3956.8	3706.8	3450.3	3189.0	2941.1	2689.5
-47.5°	4538.6	4374.4	4188.0	3989.1	3782.4	3565.0	3342.1	3107.9	2890.6	2665.2	2450.7
-50°	4061.1	3909.5	3741.7	3561.9	3381.4	3186.7	2990.9	2796.2	2599.8	2405.4	2216.5
-52.5°	3590.8	3458.5	3313.0	3156.5	2994.2	2826.2	2655.1	2493.1	2319.7	2161.2	2003.6
-55°	3134.8	3024.3	2898.8	2761.0	2618.4	2489.1	2348.2	2207.2	2074.0	1934.0	1803.6
-57.5°	2706.7	2613.1	2513.1	2406.3	2293.2	2181.7	2069.1	1952.7	1842.2	1726.8	1608.5
-60°	2320.5	2244.4	2167.9	2084.1	1993.0	1897.6	1810.7	1718.2	1620.4	1525.8	1421.2
-62.5°	1972.1	1921.0	1854.4	1786.8	1717.9	1646.8	1570.3	1494.2	1416.9	1333.3	1238.0
-65°	1643.4	1603.2	1554.2	1507.6	1456.8	1401.4	1339.0	1277.1	1212.3	1141.4	1056.6
-67.5°	1344.4	1316.6	1282.9	1246.8	1210.4	1167.8	1118.9	1065.5	1012.7	953.6	886.8
-70°	1091.7	1073.7	1049.8	1020.0	990.6	960.0	923.7	879.9	828.7	775.5	726.8
-72.5°	887.1	875.7	859.8	837.9	811.9	784.2	750.2	710.4	666.5	618.3	574.6
-75°	718.8	713.7	703.5	681.2	654.4	623.0	590.4	554.4	512.4	464.1	422.7
-77.5°	570.0	570.7	566.1	541.7	515.0	485.9	452.5	411.6	370.5	329.1	297.5
-80°	418.6	421.4	418.7	394.3	369.5	344.5	318.1	284.0	249.6	216.8	192.2
-82.5°	259.7	258.5	254.8	240.1	225.3	210.5	194.8	171.5	148.7	126.4	107.0
-85°	123.6	118.8	113.7	108.2	102.5	96.6	90.2	79.1	68.7	59.1	50.8
-87.5°	20.3	20.0	19.6	19.2	18.7	18.2	17.7	17.1	16.5	15.9	15.3
-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: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-727-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°	15.5	15.6	15.6	15.5	13.8	12.1	10.6	9.1	8.3	7.4	6.5
85°	51.0	49.8	47.1	42.7	33.7	24.2	21.1	18.2	16.5	14.8	13.0
82.5°	106.6	107.7	107.6	104.4	92.2	79.2	65.7	51.7	38.3	24.3	19.4
80°	192.6	190.5	186.0	177.2	157.0	134.2	117.0	99.2	81.8	63.7	44.8
77.5°	291.1	282.9	272.7	261.2	239.7	214.6	185.6	152.8	125.2	102.8	79.6
75°	401.3	388.1	373.8	354.6	327.1	295.6	263.8	225.6	183.2	143.2	114.1
72.5°	539.5	507.4	478.8	451.8	422.0	386.9	346.3	297.1	245.6	196.9	151.2
70°	679.4	631.3	588.4	551.7	515.8	479.0	434.5	373.8	306.8	249.5	195.7
67.5°	821.6	764.7	707.3	652.2	606.9	563.6	520.6	450.1	373.3	300.9	239.2
65°	978.4	902.5	829.6	761.6	700.1	645.9	595.5	521.5	437.8	356.5	281.5
62.5°	1140.0	1043.2	956.8	870.2	793.5	727.6	667.0	585.4	499.5	410.1	325.7
60°	1309.8	1199.6	1084.7	983.6	889.6	806.3	732.9	648.4	557.2	461.8	369.5
57.5°	1488.6	1359.1	1230.1	1102.1	989.3	889.4	797.0	708.1	613.9	512.7	410.4
55°	1669.8	1530.3	1377.7	1233.5	1095.1	976.1	864.9	765.5	668.7	562.8	445.7
52.5°	1851.2	1698.0	1534.2	1367.7	1212.7	1063.8	939.5	821.3	719.2	611.8	482.4
50°	2041.0	1865.2	1689.8	1509.9	1329.7	1166.5	1011.5	885.4	768.1	658.3	517.2
47.5°	2238.5	2042.6	1847.4	1650.8	1457.6	1264.8	1095.7	948.1	815.5	700.4	549.6
45°	2455.0	2226.0	2009.8	1797.2	1578.6	1371.0	1180.9	1008.1	869.1	733.1	579.5
42.5°	2671.3	2419.5	2177.9	1941.4	1705.4	1476.5	1261.7	1078.7	920.4	764.5	607.0
40°	2901.5	2613.6	2345.9	2089.3	1829.3	1576.9	1351.1	1147.6	968.4	797.1	633.0
37.5°	3125.2	2812.6	2518.4	2230.4	1950.6	1685.3	1437.0	1212.2	1014.0	833.6	657.7
35°	3362.0	3012.6	2677.9	2372.5	2075.5	1788.1	1517.5	1277.2	1066.5	869.3	680.9
32.5°	3590.8	3208.1	2849.2	2512.7	2194.7	1885.0	1600.4	1346.1	1117.0	903.9	702.6
30°	3815.7	3404.3	3013.3	2645.2	2310.3	1986.6	1683.4	1410.5	1165.2	937.2	724.4
27.5°	4022.9	3586.1	3170.6	2782.2	2423.8	2083.0	1761.9	1470.3	1211.0	971.6	749.7
25°	4216.0	3760.9	3325.6	2914.0	2529.2	2174.4	1834.1	1525.5	1257.6	1007.4	773.1
22.5°	4397.2	3923.3	3466.1	3035.4	2626.8	2258.2	1904.5	1584.4	1301.7	1040.4	794.6
20°	4561.9	4069.5	3592.0	3145.5	2721.7	2338.2	1972.3	1637.2	1341.1	1070.4	814.0
17.5°	4710.2	4203.1	3712.1	3248.4	2810.2	2409.2	2032.5	1683.7	1375.7	1097.0	831.0
15°	4847.9	4324.6	3818.3	3338.2	2886.7	2471.0	2084.9	1723.9	1405.3	1120.2	847.3
12.5°	4966.2	4428.8	3908.4	3414.5	2951.2	2523.3	2129.2	1757.4	1429.9	1141.2	862.5
10°	5063.7	4514.9	3981.9	3476.8	3003.4	2565.9	2165.3	1785.8	1453.0	1159.3	874.3
7.5°	5139.5	4582.3	4038.6	3525.0	3044.7	2601.5	2195.9	1810.2	1471.7	1173.2	882.5
5°	5197.0	4635.0	4087.9	3565.3	3082.8	2630.3	2218.2	1827.7	1485.1	1182.8	887.2
2.5°	5248.1	4674.5	4126.7	3591.4	3108.6	2649.0	2231.6	1838.3	1493.3	1187.9	888.3
0°	5276.9	4693.6	4148.1	3602.6	3121.9	2657.4	2236.1	1841.8	1496.1	1188.3	885.8
-2.5°	5248.1	4674.5	4126.7	3591.4	3108.6	2649.0	2231.6	1838.3	1493.3	1187.9	888.3
-5°	5197.0	4635.0	4087.9	3565.3	3082.8	2630.3	2218.2	1827.7	1485.1	1182.8	887.2
-7.5°	5139.5	4582.3	4038.6	3525.0	3044.7	2601.5	2195.9	1810.2	1471.7	1173.2	882.5
-10°	5063.7	4514.9	3981.9	3476.8	3003.4	2565.9	2165.3	1785.8	1453.0	1159.3	874.3
-12.5°	4966.2	4428.8	3908.4	3414.5	2951.2	2523.3	2129.2	1757.4	1429.9	1141.2	862.5
-15°	4847.9	4324.6	3818.3	3338.2	2886.7	2471.0	2084.9	1723.9	1405.3	1120.2	847.3
-17.5°	4710.2	4203.1	3712.1	3248.4	2810.2	2409.2	2032.5	1683.7	1375.7	1097.0	831.0
-20°	4561.9	4069.5	3592.0	3145.5	2721.7	2338.2	1972.3	1637.2	1341.1	1070.4	814.0



REPORT NUMBER: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5C-727-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°	4397.2	3923.3	3466.1	3035.4	2626.8	2258.2	1904.5	1584.4	1301.7	1040.4	794.6
-25°	4216.0	3760.9	3325.6	2914.0	2529.2	2174.4	1834.1	1525.5	1257.6	1007.4	773.1
-27.5°	4022.9	3586.1	3170.6	2782.2	2423.8	2083.0	1761.9	1470.3	1211.0	971.6	749.7
-30°	3815.7	3404.3	3013.3	2645.2	2310.3	1986.6	1683.4	1410.5	1165.2	937.2	724.4
-32.5°	3590.8	3208.1	2849.2	2512.7	2194.7	1885.0	1600.4	1346.1	1117.0	903.9	702.6
-35°	3362.0	3012.6	2677.9	2372.5	2075.5	1788.1	1517.5	1277.2	1066.5	869.3	680.9
-37.5°	3125.2	2812.6	2518.4	2230.4	1950.6	1685.3	1437.0	1212.2	1014.0	833.6	657.7
-40°	2901.5	2613.6	2345.9	2089.3	1829.3	1576.9	1351.1	1147.6	968.4	797.1	633.0
-42.5°	2671.3	2419.5	2177.9	1941.4	1705.4	1476.5	1261.7	1078.7	920.4	764.5	607.0
-45°	2455.0	2226.0	2009.8	1797.2	1578.6	1371.0	1180.9	1008.1	869.1	733.1	579.5
-47.5°	2238.5	2042.6	1847.4	1650.8	1457.6	1264.8	1095.7	948.1	815.5	700.4	549.6
-50°	2041.0	1865.2	1689.8	1509.9	1329.7	1166.5	1011.5	885.4	768.1	658.3	517.2
-52.5°	1851.2	1698.0	1534.2	1367.7	1212.7	1063.8	939.5	821.3	719.2	611.8	482.4
-55°	1669.8	1530.3	1377.7	1233.5	1095.1	976.1	864.9	765.5	668.7	562.8	445.7
-57.5°	1488.6	1359.1	1230.1	1102.1	989.3	889.4	797.0	708.1	613.9	512.7	410.4
-60°	1309.8	1199.6	1084.7	983.6	889.6	806.3	732.9	648.4	557.2	461.8	369.5
-62.5°	1140.0	1043.2	956.8	870.2	793.5	727.6	667.0	585.4	499.5	410.1	325.7
-65°	978.4	902.5	829.6	761.6	700.1	645.9	595.5	521.5	437.8	356.5	281.5
-67.5°	821.6	764.7	707.3	652.2	606.9	563.6	520.6	450.1	373.3	300.9	239.2
-70°	679.4	631.3	588.4	551.7	515.8	479.0	434.5	373.8	306.8	249.5	195.7
-72.5°	539.5	507.4	478.8	451.8	422.0	386.9	346.3	297.1	245.6	196.9	151.2
-75°	401.3	388.1	373.8	354.6	327.1	295.6	263.8	225.6	183.2	143.2	114.1
-77.5°	291.1	282.9	272.7	261.2	239.7	214.6	185.6	152.8	125.2	102.8	79.6
-80°	192.6	190.5	186.0	177.2	157.0	134.2	117.0	99.2	81.8	63.7	44.8
-82.5°	106.6	107.7	107.6	104.4	92.2	79.2	65.7	51.7	38.3	24.3	19.4
-85°	51.0	49.8	47.1	42.7	33.7	24.2	21.1	18.2	16.5	14.8	13.0
-87.5°	15.5	15.6	15.6	15.5	13.8	12.1	10.6	9.1	8.3	7.4	6.5
-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
Peachtree City, GA 30269

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REPORT NUMBER: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	5.6	4.7	3.7	2.8	1.9	0.8	0.0
85°	11.2	9.3	7.5	5.6	3.8	1.6	0.0
82.5°	16.7	14.0	11.2	8.4	5.6	2.5	0.0
80°	25.2	18.6	14.9	11.2	7.5	3.3	0.0
77.5°	54.8	29.2	18.6	14.0	9.3	4.1	0.0
75°	83.8	50.5	24.2	16.7	11.1	4.9	0.0
72.5°	111.8	71.2	38.6	19.4	12.8	5.6	0.0
70°	139.8	91.1	52.6	23.3	14.5	6.4	0.0
67.5°	173.5	110.3	66.0	31.9	16.2	7.2	0.0
65°	205.7	131.7	78.8	40.2	17.8	7.9	0.0
62.5°	236.3	155.1	90.9	48.1	19.4	8.6	0.0
60°	265.1	177.3	102.3	55.5	20.9	9.3	0.0
57.5°	295.4	198.2	117.4	62.6	25.1	9.9	0.0
55°	324.1	217.6	131.9	69.1	29.2	10.6	0.0
52.5°	350.7	236.0	145.4	75.2	33.1	11.2	0.0
50°	375.1	255.5	157.7	80.7	36.9	11.7	0.0
47.5°	397.9	273.3	169.0	86.5	40.5	12.3	0.0
45°	423.3	289.4	179.2	94.0	43.9	12.8	0.0
42.5°	446.6	303.8	188.2	100.8	47.2	13.3	0.0
40°	467.7	316.3	197.2	107.7	50.2	13.7	0.0
37.5°	486.6	327.0	206.2	114.6	53.1	14.2	0.0
35°	503.3	339.3	213.9	121.0	55.7	14.5	0.0
32.5°	518.7	351.6	220.4	126.9	58.2	14.9	0.0
30°	534.8	362.2	225.5	132.3	60.4	15.2	0.0
27.5°	549.2	370.9	233.2	137.2	62.4	15.5	0.0
25°	561.9	377.8	240.5	141.5	64.2	15.7	0.0
22.5°	572.7	384.8	246.9	145.4	65.8	15.9	0.0
20°	581.7	394.4	252.4	148.7	67.2	16.1	0.0
17.5°	592.9	402.2	257.0	151.5	68.3	16.2	0.0
15°	604.6	408.3	260.7	153.8	69.2	16.3	0.0
12.5°	614.1	412.6	263.6	155.6	69.9	16.4	0.0
10°	621.3	415.4	265.5	156.8	70.4	16.4	0.0
7.5°	626.2	416.5	266.6	157.5	70.7	16.4	0.0
5°	628.7	416.0	266.8	157.7	70.7	16.4	0.0
2.5°	628.9	414.0	266.2	157.4	70.6	16.3	0.0
0°	626.5	410.5	264.7	156.6	70.2	16.2	0.0
-2.5°	628.9	414.0	266.2	157.4	70.6	16.3	0.0
-5°	628.7	416.0	266.8	157.7	70.7	16.4	0.0
-7.5°	626.2	416.5	266.6	157.5	70.7	16.4	0.0
-10°	621.3	415.4	265.5	156.8	70.4	16.4	0.0
-12.5°	614.1	412.6	263.6	155.6	69.9	16.4	0.0
-15°	604.6	408.3	260.7	153.8	69.2	16.3	0.0
-17.5°	592.9	402.2	257.0	151.5	68.3	16.2	0.0
-20°	581.7	394.4	252.4	148.7	67.2	16.1	0.0

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REPORT NUMBER: P627621 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	572.7	384.8	246.9	145.4	65.8	15.9	0.0
-25°	561.9	377.8	240.5	141.5	64.2	15.7	0.0
-27.5°	549.2	370.9	233.2	137.2	62.4	15.5	0.0
-30°	534.8	362.2	225.5	132.3	60.4	15.2	0.0
-32.5°	518.7	351.6	220.4	126.9	58.2	14.9	0.0
-35°	503.3	339.3	213.9	121.0	55.7	14.5	0.0
-37.5°	486.6	327.0	206.2	114.6	53.1	14.2	0.0
-40°	467.7	316.3	197.2	107.7	50.2	13.7	0.0
-42.5°	446.6	303.8	188.2	100.8	47.2	13.3	0.0
-45°	423.3	289.4	179.2	94.0	43.9	12.8	0.0
-47.5°	397.9	273.3	169.0	86.5	40.5	12.3	0.0
-50°	375.1	255.5	157.7	80.7	36.9	11.7	0.0
-52.5°	350.7	236.0	145.4	75.2	33.1	11.2	0.0
-55°	324.1	217.6	131.9	69.1	29.2	10.6	0.0
-57.5°	295.4	198.2	117.4	62.6	25.1	9.9	0.0
-60°	265.1	177.3	102.3	55.5	20.9	9.3	0.0
-62.5°	236.3	155.1	90.9	48.1	19.4	8.6	0.0
-65°	205.7	131.7	78.8	40.2	17.8	7.9	0.0
-67.5°	173.5	110.3	66.0	31.9	16.2	7.2	0.0
-70°	139.8	91.1	52.6	23.3	14.5	6.4	0.0
-72.5°	111.8	71.2	38.6	19.4	12.8	5.6	0.0
-75°	83.8	50.5	24.2	16.7	11.1	4.9	0.0
-77.5°	54.8	29.2	18.6	14.0	9.3	4.1	0.0
-80°	25.2	18.6	14.9	11.2	7.5	3.3	0.0
-82.5°	16.7	14.0	11.2	8.4	5.6	2.5	0.0
-85°	11.2	9.3	7.5	5.6	3.8	1.6	0.0
-87.5°	5.6	4.7	3.7	2.8	1.9	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)