

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

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: BKHDR150CLD2D-MID-3500K

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: BKHDR150CLD2D-MID-3500K
Description: BULK HEAD 2800LM SEL 5CCT UNV D2D BRONZE at 3500K CCT

Light Source:
Ballast/Driver: ELECTRONIC DRIVER

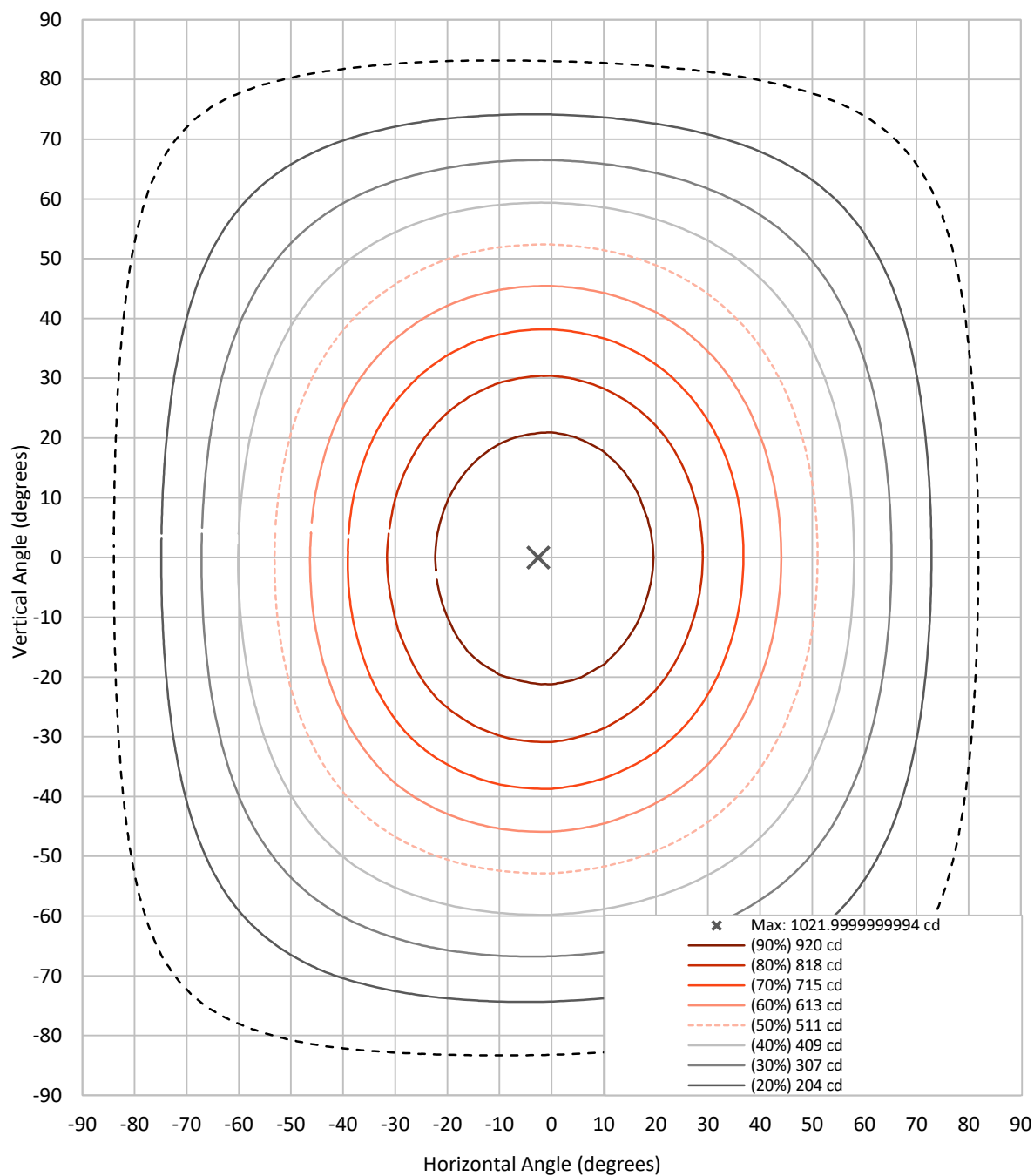
Summary

Lumens per Lamp:	2087.9 (1 lamp)	NEMA Type:	7H x 7V
Luminaire Lumens:	2768.6 lumens	Max Intensity:	1022 candela
Efficiency:	132.6%	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	115.4 lumens/watt		
Luminous Opening:	Circular (Dia: 0.76' x H: 0')		
Beam Angle (50%):	104.2°H x 105.3°V	Field Angle (10%):	165.8°H x 166.3°V
Beam Lumens:	1830.5 lumens	Field Lumens:	2712.8 lumens
Beam Efficiency:	66.1%	Field Efficiency:	98.0%
Input Watts (W):	24		
Input Voltage (V):	122		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	>0.9		
Total Harmonic Distortion (THDi):	<20		
Frequency (hertz):	60		
Stabilization Time:	HR		
Operation Time:	HR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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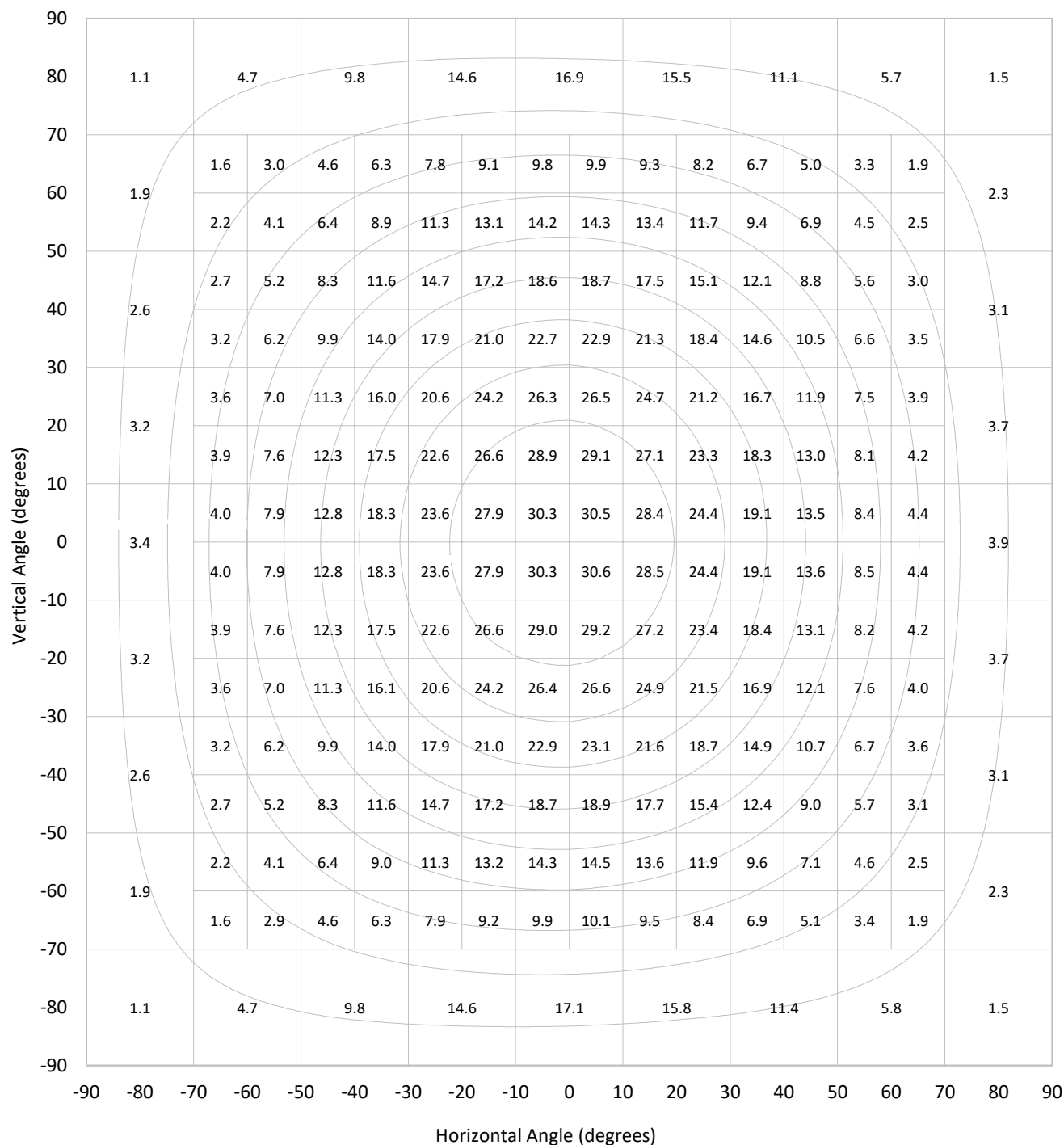
CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

Iso-Candela Plot



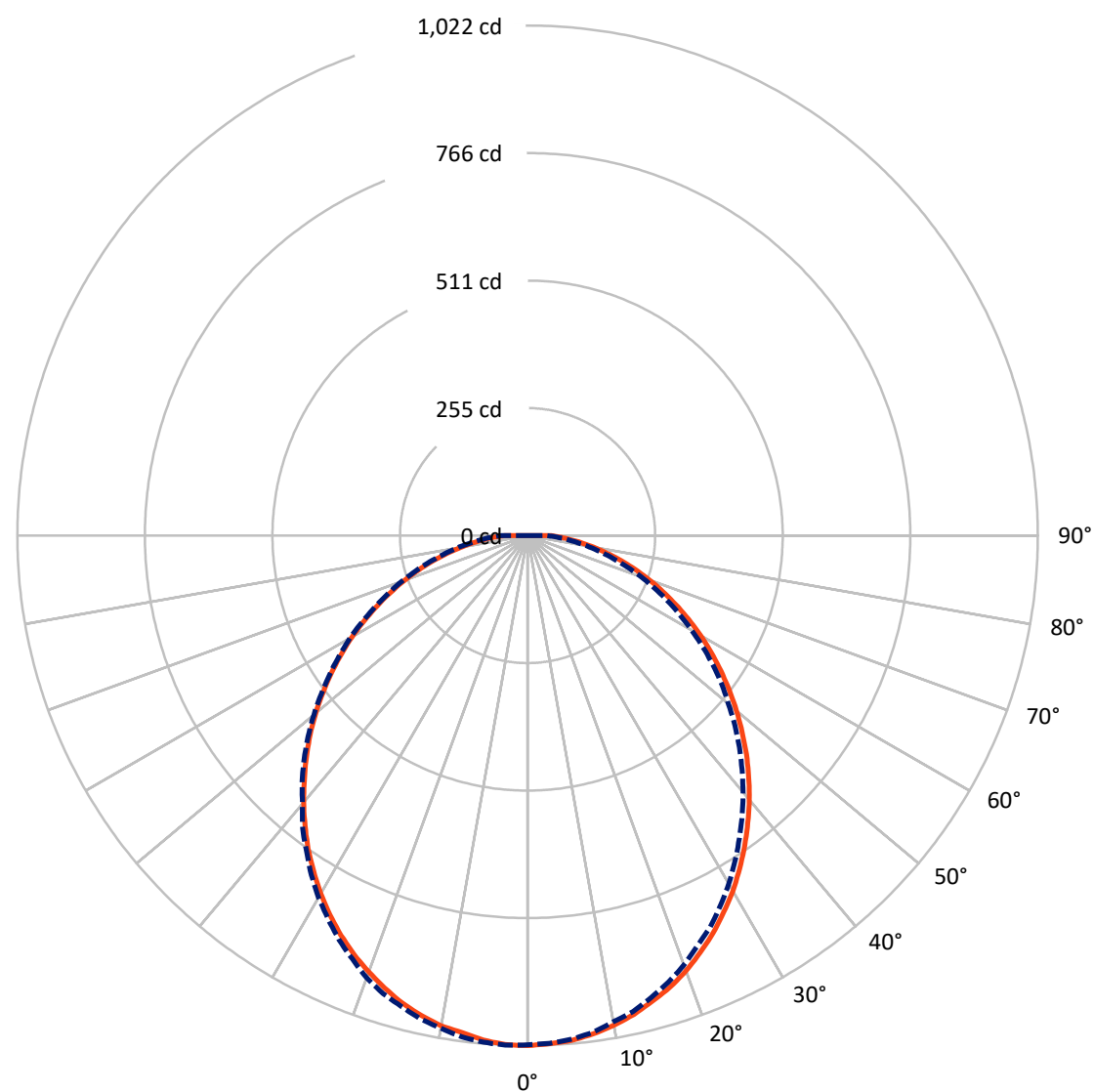
REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table



REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)
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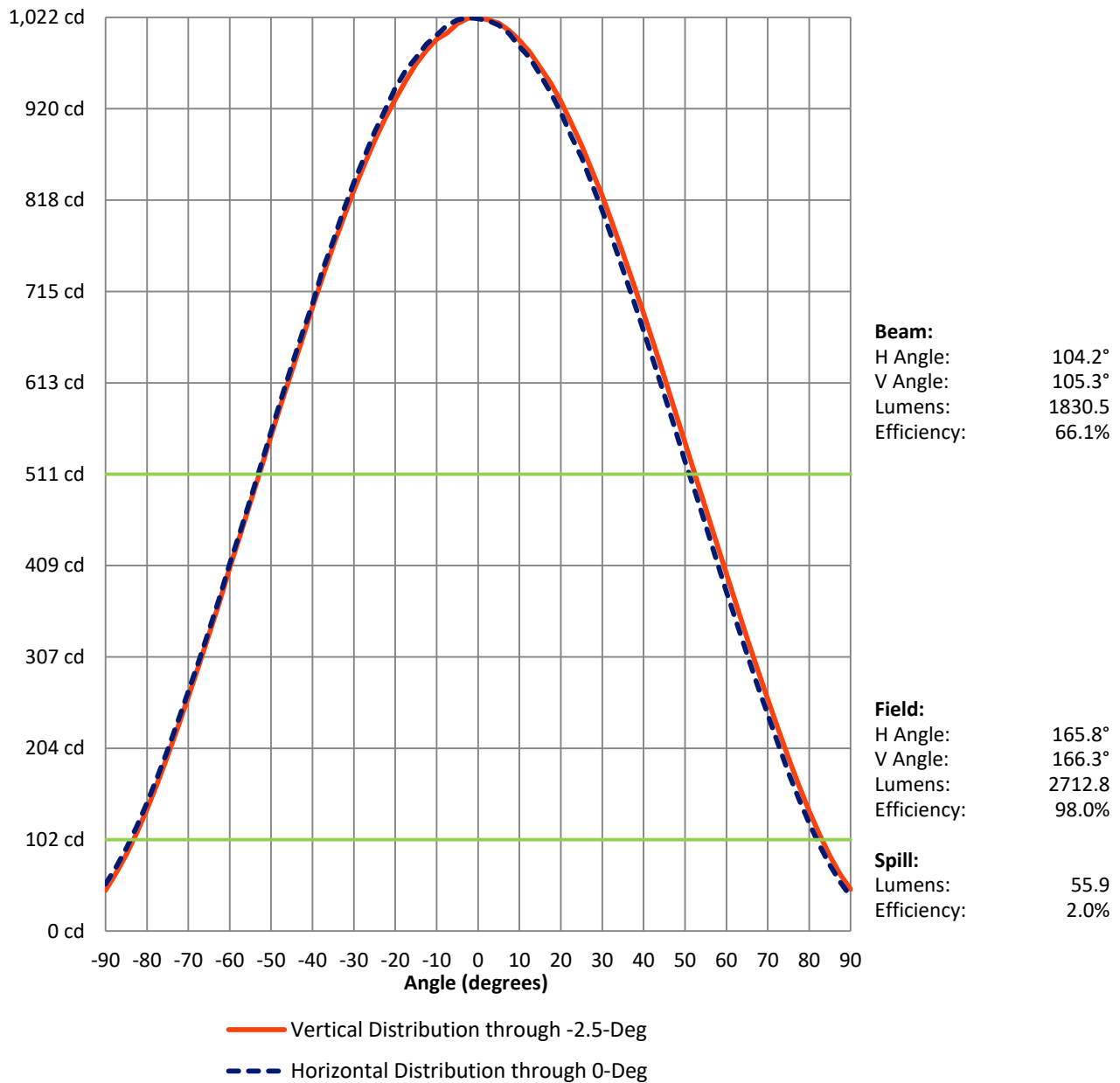
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



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CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	52.6	52.6	52.7	52.7	52.7	52.8	52.8	52.8	52.9	52.9	52.9
87.5°	52.6	53.4	54.1	54.9	55.7	56.4	57.1	57.9	58.6	59.3	59.8
85°	52.6	54.1	55.7	57.2	58.7	60.2	61.8	63.3	64.9	66.3	67.7
82.5°	52.6	54.9	57.2	59.5	61.9	64.3	66.6	69.0	71.5	73.9	76.1
80°	52.6	55.7	58.7	61.9	65.1	68.3	71.6	74.9	78.4	81.7	85.0
77.5°	52.6	56.4	60.3	64.3	68.3	72.5	76.8	81.1	85.5	90.1	94.4
75°	52.6	57.2	61.9	66.7	71.7	76.8	82.0	87.5	93.0	98.6	104.1
72.5°	52.6	57.9	63.4	69.1	74.9	81.1	87.5	94.0	100.7	107.4	114.1
70°	52.6	58.7	65.0	71.5	78.4	85.6	93.0	100.7	108.5	116.5	124.5
67.5°	52.6	59.4	66.5	73.9	81.8	90.1	98.7	107.5	116.5	125.8	135.2
65°	52.6	60.1	68.0	76.4	85.3	94.6	104.4	114.3	124.7	135.3	146.0
62.5°	52.6	60.8	69.6	78.8	88.7	99.2	110.0	121.2	132.9	144.8	156.9
60°	52.6	61.6	71.1	81.3	92.1	103.8	115.7	128.3	141.2	154.4	167.9
57.5°	52.6	62.3	72.5	83.6	95.6	108.3	121.4	135.3	149.5	164.1	178.8
55°	52.6	62.9	73.9	86.0	99.1	112.7	127.2	142.2	157.8	173.7	189.8
52.5°	52.6	63.6	75.4	88.4	102.4	117.2	132.8	149.1	165.9	183.1	200.7
50°	52.6	64.2	76.8	90.6	105.7	121.4	138.4	155.9	174.0	192.5	211.4
47.5°	52.6	64.9	78.2	92.9	108.9	125.8	143.8	162.6	181.9	201.8	222.0
45°	52.6	65.4	79.5	95.1	112.0	130.0	149.2	169.0	189.6	210.8	232.3
42.5°	52.6	66.0	80.8	97.3	115.0	134.1	154.3	175.4	197.2	219.6	242.2
40°	52.6	66.5	82.0	99.3	117.9	138.1	159.3	181.5	204.5	228.1	252.0
37.5°	52.6	67.1	83.2	101.3	120.7	141.8	164.1	187.3	211.4	236.2	261.5
35°	52.6	67.6	84.3	103.2	123.4	145.5	168.7	193.0	218.2	244.0	270.4
32.5°	52.6	68.0	85.4	104.9	126.0	149.0	173.1	198.4	224.7	251.5	278.9
30°	52.6	68.5	86.4	106.6	128.5	152.2	177.2	203.4	230.7	258.6	286.8
27.5°	52.6	68.9	87.3	108.1	130.7	155.2	181.1	208.1	236.3	265.2	294.2
25°	52.6	69.3	88.2	109.5	132.8	158.0	184.6	212.5	241.5	271.3	301.2
22.5°	52.6	69.6	88.9	110.8	134.8	160.6	187.9	216.6	246.3	276.9	307.7
20°	52.6	69.9	89.6	112.0	136.5	162.9	190.8	220.3	250.7	281.9	313.4
17.5°	52.6	70.2	90.3	113.1	138.1	164.9	193.5	223.7	254.6	286.4	318.5
15°	52.6	70.4	90.8	114.0	139.4	166.7	195.9	226.7	258.1	290.2	323.0
12.5°	52.6	70.6	91.3	114.8	140.6	168.3	197.9	229.2	261.1	293.5	327.0
10°	52.6	70.8	91.6	115.4	141.5	169.6	199.5	231.2	263.5	296.3	330.3
7.5°	52.6	70.9	91.9	115.9	142.2	170.7	200.8	232.7	265.5	298.6	333.0
5°	52.6	71.0	92.1	116.3	142.8	171.4	201.7	233.9	266.9	300.2	334.9
2.5°	52.6	71.1	92.3	116.5	143.1	171.8	202.3	234.6	267.8	301.2	336.1
0°	52.6	71.1	92.3	116.6	143.2	172.0	202.5	234.8	268.1	301.5	336.5
-2.5°	52.6	71.1	92.3	116.5	143.1	171.9	202.4	234.7	268.0	301.5	336.5
-5°	52.6	71.0	92.2	116.3	142.8	171.5	202.0	234.2	267.4	300.7	335.7
-7.5°	52.6	70.9	92.0	116.0	142.3	170.9	201.2	233.2	266.2	299.4	334.1
-10°	52.6	70.8	91.7	115.5	141.6	169.9	200.0	231.8	264.5	297.4	331.8
-12.5°	52.6	70.6	91.3	114.9	140.7	168.6	198.4	229.9	262.3	294.8	328.7
-15°	52.6	70.4	90.9	114.1	139.6	167.1	196.5	227.6	259.6	291.8	324.9
-17.5°	52.6	70.2	90.3	113.2	138.3	165.3	194.3	224.7	256.3	288.2	320.7
-20°	52.6	69.9	89.7	112.1	136.8	163.3	191.7	221.5	252.5	284.0	315.9

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	52.6	69.6	89.0	111.0	135.0	161.1	188.8	217.9	248.3	279.2	310.5
-25°	52.6	69.3	88.2	109.7	133.1	158.5	185.6	213.9	243.5	273.9	304.2
-27.5°	52.6	68.9	87.4	108.3	131.1	155.7	182.0	209.7	238.4	268.1	297.3
-30°	52.6	68.5	86.5	106.8	128.8	152.7	178.2	205.0	232.8	261.7	290.1
-32.5°	52.6	68.1	85.5	105.1	126.4	149.5	174.1	200.1	226.8	254.8	282.5
-35°	52.6	67.6	84.4	103.4	123.8	146.1	169.7	194.7	220.4	247.2	274.3
-37.5°	52.6	67.1	83.3	101.5	121.1	142.5	165.1	189.0	213.8	239.2	265.7
-40°	52.6	66.6	82.1	99.5	118.4	138.7	160.3	183.1	206.9	231.0	256.4
-42.5°	52.6	66.0	80.9	97.5	115.5	134.8	155.2	176.9	199.6	222.5	246.3
-45°	52.6	65.5	79.6	95.3	112.4	130.7	150.1	170.5	191.9	213.8	236.0
-47.5°	52.6	64.9	78.3	93.1	109.3	126.5	144.7	163.9	184.0	204.9	225.6
-50°	52.6	64.3	76.9	90.9	106.1	122.1	139.3	157.1	175.9	195.5	215.1
-52.5°	52.6	63.6	75.5	88.6	102.8	117.8	133.7	150.3	167.7	185.8	204.4
-55°	52.6	63.0	74.0	86.3	99.4	113.3	128.0	143.4	159.3	176.0	193.2
-57.5°	52.6	62.3	72.6	83.9	96.0	108.8	122.3	136.4	151.0	166.2	181.7
-60°	52.6	61.6	71.2	81.5	92.5	104.3	116.5	129.4	142.7	156.1	170.5
-62.5°	52.6	60.9	69.7	79.0	89.1	99.7	110.7	122.3	134.2	146.5	159.0
-65°	52.6	60.1	68.1	76.6	85.6	95.1	105.0	115.3	126.0	136.8	147.9
-67.5°	52.6	59.4	66.6	74.1	82.1	90.6	99.3	108.3	117.7	127.3	137.0
-70°	52.6	58.7	65.0	71.7	78.7	86.0	93.7	101.4	109.5	117.8	126.2
-72.5°	52.6	58.0	63.5	69.2	75.2	81.5	88.1	94.8	101.5	108.5	115.6
-75°	52.6	57.2	61.9	66.8	71.9	77.1	82.5	88.2	93.9	99.6	105.3
-77.5°	52.6	56.5	60.3	64.4	68.5	72.8	77.2	81.7	86.3	91.0	95.6
-80°	52.6	55.7	58.8	62.0	65.2	68.5	72.0	75.4	79.0	82.5	86.0
-82.5°	52.6	54.9	57.3	59.6	62.0	64.4	66.8	69.4	71.9	74.5	76.9
-85°	52.6	54.2	55.7	57.3	58.8	60.4	62.0	63.6	65.2	66.7	68.3
-87.5°	52.6	53.4	54.2	55.0	55.8	56.5	57.3	58.1	58.8	59.5	60.2
-90°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.4

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	52.8	52.8	52.7	52.7	52.6	52.6	52.5	52.5	52.2	51.8	51.5
87.5°	60.3	60.8	61.3	61.7	62.2	62.6	63.0	63.4	63.7	64.0	64.3
85°	69.0	70.3	71.6	72.8	74.0	75.2	76.4	77.5	78.5	79.5	80.4
82.5°	78.4	80.5	82.7	84.9	87.0	89.0	91.0	93.0	94.9	96.6	98.3
80°	88.3	91.5	94.7	97.8	100.9	103.9	106.9	109.8	112.6	115.3	117.9
77.5°	98.7	102.9	107.2	111.5	115.7	119.8	123.9	127.8	131.6	135.3	138.8
75°	109.5	115.0	120.4	125.9	131.3	136.6	141.7	146.8	151.7	156.5	161.1
72.5°	120.8	127.6	134.3	141.0	147.6	154.1	160.5	166.7	172.8	178.7	184.4
70°	132.5	140.5	148.6	156.6	164.4	172.2	179.9	187.3	195.0	202.3	209.2
67.5°	144.5	153.8	163.2	172.5	181.8	191.0	200.2	209.3	218.1	226.2	234.1
65°	156.7	167.4	178.1	188.8	199.7	210.5	221.0	231.2	241.1	250.3	259.5
62.5°	169.0	181.1	193.3	205.6	217.8	229.8	241.6	252.9	264.2	275.0	285.2
60°	181.3	195.0	208.7	222.3	235.9	249.1	262.3	275.2	287.6	299.5	311.0
57.5°	193.8	208.9	223.9	239.0	253.8	268.7	283.1	297.2	311.0	324.4	337.1
55°	206.2	222.6	239.1	255.5	271.9	288.0	303.8	319.4	334.5	349.2	363.4
52.5°	218.4	236.2	254.1	272.1	289.7	307.2	324.5	341.4	358.0	374.2	389.8
50°	230.5	249.7	269.1	288.3	307.3	326.3	344.9	363.3	381.5	398.9	415.6
47.5°	242.3	263.0	283.7	304.2	324.8	345.0	365.2	385.2	404.7	423.3	441.1
45°	254.0	276.0	297.9	319.9	341.8	363.5	385.4	406.9	427.3	447.1	466.3
42.5°	265.4	288.6	311.8	335.2	358.4	381.8	405.4	427.7	449.4	470.6	490.9
40°	276.4	300.8	325.4	349.9	374.6	400.1	424.3	447.9	471.0	493.4	515.3
37.5°	286.9	312.5	338.4	364.2	390.9	417.3	442.6	467.6	491.9	515.8	539.1
35°	296.9	323.8	350.8	378.0	406.8	433.7	460.3	486.4	512.3	537.5	562.0
32.5°	306.5	334.6	362.8	392.0	421.1	449.2	477.2	504.7	531.8	558.3	584.1
30°	315.5	344.8	374.1	405.3	434.8	464.3	493.1	522.0	550.4	578.1	605.0
27.5°	324.0	354.3	385.1	417.2	447.5	478.1	508.5	538.5	568.0	596.8	624.6
25°	332.0	363.4	395.8	428.1	459.6	491.0	522.6	553.7	584.4	614.3	643.3
22.5°	339.4	371.4	405.6	438.0	470.8	503.2	535.7	568.0	599.6	630.3	660.4
20°	346.0	378.6	414.2	447.0	480.6	514.4	547.7	580.9	613.6	645.2	676.4
17.5°	352.0	385.9	421.7	455.1	489.4	523.8	558.5	592.6	625.9	658.3	690.4
15°	357.3	392.2	428.1	462.7	497.3	532.6	568.1	603.0	636.7	670.1	702.6
12.5°	361.9	397.7	433.6	469.2	504.5	540.4	576.3	612.2	646.2	680.3	713.2
10°	365.7	402.3	438.0	474.1	510.5	546.8	583.1	619.8	653.8	688.9	722.4
7.5°	368.5	405.9	441.6	478.0	515.0	551.8	588.6	625.3	659.8	694.7	729.8
5°	370.5	408.5	444.1	480.8	518.1	555.4	592.6	629.3	664.3	698.6	735.3
2.5°	371.8	410.1	445.7	482.5	519.9	557.7	595.2	631.8	667.1	700.7	738.8
0°	372.2	410.8	446.3	483.2	520.6	558.7	596.2	632.8	668.1	701.3	740.2
-2.5°	372.2	410.5	446.2	483.0	520.5	558.4	596.0	632.4	667.8	701.3	739.4
-5°	371.4	409.2	445.0	481.8	519.2	556.7	594.2	630.6	665.9	699.9	736.5
-7.5°	369.7	407.0	442.9	479.4	516.6	553.7	591.2	627.2	662.2	696.7	731.7
-10°	367.3	403.7	439.8	476.0	512.7	549.4	586.4	622.2	656.7	691.7	724.9
-12.5°	363.9	399.6	435.7	471.3	507.4	543.6	579.8	615.3	649.3	683.9	716.3
-15°	359.8	394.6	430.5	465.4	501.0	536.4	572.0	606.9	640.7	674.8	706.3
-17.5°	355.0	389.0	424.3	458.5	493.5	528.2	563.3	598.3	630.5	664.0	695.4
-20°	349.5	382.8	417.3	450.9	484.8	518.9	553.2	587.6	618.6	650.5	682.6

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	343.2	375.6	409.1	442.3	475.0	508.6	541.7	574.2	606.0	636.8	667.7
-25°	336.0	367.5	399.7	432.3	464.4	497.2	529.0	560.8	593.4	621.3	650.3
-27.5°	327.8	359.3	390.4	421.7	453.2	484.1	515.1	546.1	575.8	605.4	633.3
-30°	319.6	350.3	380.3	410.3	440.6	470.1	500.9	530.0	558.9	587.7	614.5
-32.5°	310.9	340.4	368.6	397.6	426.6	456.2	484.7	513.1	540.9	567.8	594.9
-35°	301.2	329.0	357.6	386.1	412.9	440.8	467.9	495.5	521.7	547.6	572.5
-37.5°	291.3	318.0	345.7	371.1	397.7	424.2	450.9	476.2	502.1	526.5	550.2
-40°	281.1	306.2	332.0	357.6	383.0	407.3	432.4	457.1	481.0	504.6	527.1
-42.5°	270.5	293.9	318.3	343.1	365.9	390.3	413.4	437.0	459.5	481.8	503.2
-45°	259.5	281.6	304.0	326.6	349.8	371.2	394.1	415.7	437.7	458.2	478.4
-47.5°	247.2	269.0	289.6	310.9	332.2	353.2	373.4	394.6	414.4	434.6	453.2
-50°	234.8	255.6	275.2	294.6	314.5	334.1	353.3	371.8	391.3	409.5	427.5
-52.5°	222.7	241.3	260.4	278.4	296.4	314.6	332.6	350.0	366.7	384.1	400.7
-55°	210.4	227.2	244.5	262.0	278.5	295.0	311.4	327.6	343.5	358.0	372.6
-57.5°	197.8	213.4	228.8	244.6	260.4	275.5	290.4	305.0	319.4	333.4	346.1
-60°	184.8	199.3	213.5	227.5	241.7	255.7	269.3	282.6	295.6	307.8	319.3
-62.5°	172.0	184.9	198.0	210.7	223.2	235.8	248.0	260.0	271.6	282.6	293.0
-65°	159.1	170.8	182.1	193.7	205.1	216.1	227.0	237.7	247.9	257.3	266.4
-67.5°	146.8	156.6	166.8	176.8	186.7	196.6	206.2	215.4	224.6	232.9	240.6
-70°	134.6	143.1	151.6	160.3	169.0	177.3	185.5	193.6	201.3	208.3	215.0
-72.5°	122.7	129.9	137.1	144.2	151.4	158.5	165.6	172.5	178.7	184.4	189.8
-75°	111.1	117.0	122.9	128.8	134.7	140.4	146.0	151.6	156.7	161.4	165.8
-77.5°	100.1	104.7	109.3	113.8	118.5	123.0	127.6	132.0	135.9	139.3	142.6
-80°	89.5	93.0	96.5	100.0	103.4	106.8	110.0	113.1	115.9	118.4	120.8
-82.5°	79.4	81.8	84.2	86.6	89.0	91.3	93.6	95.9	97.8	99.4	101.0
-85°	69.9	71.4	72.9	74.3	75.7	77.1	78.5	79.8	80.7	81.5	82.3
-87.5°	60.9	61.6	62.3	63.0	63.6	64.2	64.8	65.4	65.6	65.8	65.9
-90°	52.2	52.0	51.8	51.5	51.3	51.1	50.9	50.7	50.5	50.3	50.1

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	51.2	50.8	50.5	50.2	49.8	49.5	49.2	48.8	48.5	48.1	47.8
87.5°	64.6	64.8	65.1	65.2	65.4	65.5	65.4	65.2	65.0	64.7	64.4
85°	81.3	82.2	82.9	83.6	84.3	84.8	85.0	85.1	85.1	85.0	84.9
82.5°	100.0	101.5	102.9	104.3	105.4	106.5	107.2	107.7	108.1	108.4	108.5
80°	120.3	122.7	124.8	126.8	128.6	130.3	131.5	132.5	133.2	133.8	134.2
77.5°	142.1	145.3	148.3	151.1	153.8	156.3	158.2	159.8	161.0	162.0	162.6
75°	165.6	169.7	173.6	177.3	180.7	183.8	186.3	188.3	190.1	191.5	192.6
72.5°	190.0	195.3	200.2	204.7	208.7	212.3	215.4	218.0	220.3	222.2	223.9
70°	215.6	221.5	227.2	232.5	237.5	242.0	246.0	249.5	252.4	254.8	256.7
67.5°	241.6	248.6	255.4	261.7	267.5	272.7	277.4	281.4	284.9	287.7	290.0
65°	268.1	276.3	284.0	291.1	297.8	303.9	309.3	313.9	317.9	321.2	323.9
62.5°	294.9	304.1	312.9	321.0	328.5	335.5	342.0	347.5	352.1	355.9	358.9
60°	322.0	332.3	342.3	351.6	360.1	367.8	374.8	381.2	386.7	391.2	394.8
57.5°	349.4	361.0	372.0	382.4	392.3	401.4	409.7	416.7	422.3	426.9	430.5
55°	376.9	389.9	402.2	413.9	424.6	434.1	442.7	450.2	456.5	461.9	466.3
52.5°	404.5	418.7	431.9	444.2	455.7	466.4	476.4	484.8	491.3	497.4	502.4
50°	431.5	446.7	461.1	474.8	487.4	499.2	510.0	519.0	527.0	533.9	539.1
47.5°	458.3	474.7	490.3	505.2	518.8	531.8	543.7	553.8	561.3	568.4	574.4
45°	484.6	502.4	519.3	535.5	550.5	563.3	575.4	586.7	596.3	604.0	610.4
42.5°	510.6	529.8	548.1	564.7	580.5	595.3	608.6	620.4	630.7	638.9	645.3
40°	536.4	556.6	575.8	594.0	611.0	626.4	640.7	652.9	663.7	672.6	679.8
37.5°	561.4	582.9	603.2	622.3	640.3	656.6	671.4	684.7	697.3	705.7	713.2
35°	585.6	608.2	629.4	649.8	668.7	686.0	701.9	715.6	728.6	739.1	746.0
32.5°	608.8	632.3	654.9	676.4	696.1	714.2	731.3	745.8	758.1	769.4	778.2
30°	630.7	655.6	679.5	701.3	722.2	741.9	758.8	774.6	788.7	801.0	809.1
27.5°	651.7	677.8	702.2	725.4	747.5	767.6	785.8	802.5	815.4	826.8	836.7
25°	671.6	698.3	723.9	748.4	771.1	791.6	810.5	826.8	841.5	854.3	863.3
22.5°	689.6	717.5	744.4	769.4	792.6	813.8	833.4	850.9	865.4	878.7	889.6
20°	706.4	735.3	762.6	788.5	812.3	834.6	854.7	872.1	888.1	901.4	911.5
17.5°	721.5	751.1	779.2	805.7	830.4	853.2	873.5	891.9	907.8	921.3	931.8
15°	734.9	765.1	794.0	821.0	846.3	869.7	890.6	909.1	925.7	939.4	950.2
12.5°	746.5	776.8	806.5	834.3	860.2	883.9	905.1	924.4	941.1	955.3	966.9
10°	756.1	786.7	817.0	845.0	871.8	895.7	917.6	937.1	954.2	968.6	979.7
7.5°	763.4	794.6	825.3	853.4	880.6	905.4	927.2	947.6	964.4	978.5	990.1
5°	768.1	800.5	831.5	859.6	887.2	913.0	934.7	954.5	971.7	986.2	998.0
2.5°	770.9	804.4	835.6	863.8	891.7	916.6	940.1	959.6	975.6	990.3	1001.9
0°	771.9	806.0	837.3	865.4	893.7	917.9	942.9	962.3	976.9	991.9	1002.1
-2.5°	771.5	805.0	836.1	864.4	892.3	916.9	940.6	960.1	976.0	990.3	1001.8
-5°	769.4	801.6	832.3	861.1	888.5	913.4	935.9	955.9	973.9	986.2	998.3
-7.5°	765.3	796.4	825.7	855.1	882.5	907.2	929.2	949.3	966.0	980.1	991.4
-10°	758.6	789.7	818.5	846.0	873.8	898.7	919.8	939.4	956.7	971.8	983.4
-12.5°	749.1	780.3	810.0	837.6	864.2	887.6	908.9	929.1	944.2	959.6	969.8
-15°	738.5	769.0	797.8	823.1	849.7	874.2	895.9	915.1	932.3	942.7	953.0
-17.5°	726.1	755.8	785.0	811.4	835.3	859.6	879.7	898.5	914.7	926.7	935.5
-20°	712.0	740.9	769.4	795.5	819.2	840.8	862.8	879.1	893.9	905.4	916.8

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	696.8	724.6	751.0	777.9	801.4	822.9	840.8	858.6	872.1	883.4	892.1
-25°	679.9	706.7	732.4	757.2	781.3	802.1	819.5	834.9	849.1	860.0	868.5
-27.5°	660.1	687.4	712.1	735.4	758.0	778.4	795.1	809.8	824.6	835.7	843.9
-30°	640.7	664.9	690.5	712.9	733.0	751.2	769.1	783.5	795.9	806.3	815.8
-32.5°	619.8	643.5	665.1	688.5	707.4	725.0	740.2	754.8	767.1	777.1	785.6
-35°	597.3	620.8	642.3	660.3	679.6	696.8	711.9	725.6	736.5	746.2	754.5
-37.5°	573.1	595.2	616.6	634.9	650.6	666.6	680.7	694.0	705.2	715.1	722.0
-40°	548.6	569.3	588.1	606.5	622.9	637.3	649.9	662.4	671.6	680.0	687.5
-42.5°	523.9	542.4	560.0	576.6	592.0	606.6	619.0	629.9	639.3	647.2	653.6
-45°	498.0	515.1	531.3	546.5	561.1	574.3	586.2	596.9	605.9	612.9	618.6
-47.5°	470.6	487.2	502.2	516.4	529.3	541.4	552.6	562.8	571.0	577.8	583.1
-50°	443.6	458.1	472.4	485.8	497.9	508.9	518.6	527.5	535.1	541.4	546.6
-52.5°	415.0	429.6	442.7	454.5	465.7	476.0	485.2	493.3	500.1	505.5	509.9
-55°	386.9	400.0	411.7	423.2	433.7	443.1	451.3	458.6	464.7	469.8	473.9
-57.5°	358.2	369.7	381.2	391.6	400.9	409.4	417.2	423.9	429.6	434.2	437.7
-60°	330.5	341.1	351.0	360.1	368.2	376.3	383.6	389.0	393.8	398.0	401.4
-62.5°	302.8	311.8	320.6	328.8	336.7	343.9	350.4	355.2	358.9	362.0	364.4
-65°	275.2	283.5	291.3	298.5	304.9	310.7	316.0	320.2	323.9	327.0	329.4
-67.5°	248.0	254.9	261.6	268.0	273.9	279.1	283.6	287.4	290.5	293.0	294.8
-70°	221.5	227.7	233.4	238.6	243.4	247.6	251.1	254.0	256.8	258.9	260.5
-72.5°	195.2	200.3	205.2	209.6	213.6	217.2	220.3	222.8	224.9	226.5	227.7
-75°	170.0	173.9	177.5	180.9	184.0	186.7	189.2	191.4	193.2	194.6	195.6
-77.5°	145.7	148.8	151.6	154.1	156.4	158.5	160.2	161.7	162.9	163.9	164.6
-80°	123.1	125.3	127.4	129.3	130.9	132.3	133.5	134.4	135.2	135.8	136.2
-82.5°	102.4	103.7	104.8	105.9	106.9	107.7	108.4	108.9	109.4	109.6	109.8
-85°	83.1	83.8	84.4	84.9	85.4	85.7	86.0	86.1	86.2	86.2	86.2
-87.5°	66.0	66.1	66.2	66.2	66.2	66.1	66.1	66.0	65.8	65.6	65.4
-90°	49.9	49.6	49.4	49.2	49.0	48.8	48.4	48.0	47.6	47.2	46.8

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	47.4	47.1	46.7	46.4	46.0	45.5	45.1	44.6	44.2	43.7	43.3
87.5°	64.1	63.7	63.3	62.9	62.5	62.1	61.7	61.2	60.7	60.2	59.6
85°	84.7	84.4	84.0	83.5	83.1	82.5	81.9	81.2	80.5	79.6	78.7
82.5°	108.4	108.2	107.9	107.5	106.9	106.2	105.4	104.4	103.3	102.0	100.7
80°	134.4	134.4	134.1	133.7	133.1	132.2	131.1	129.9	128.4	126.7	124.8
77.5°	163.0	163.1	163.0	162.5	161.8	160.7	159.4	157.9	156.0	154.0	151.6
75°	193.3	193.6	193.6	193.2	192.3	191.1	189.5	187.5	185.2	182.6	179.6
72.5°	225.0	225.7	226.0	225.8	224.7	223.2	221.2	218.8	215.9	212.7	209.2
70°	258.1	258.9	259.1	258.9	257.7	256.1	253.9	251.2	248.0	244.4	240.3
67.5°	291.6	292.7	293.1	293.0	291.8	290.0	287.6	284.6	281.0	276.8	271.9
65°	325.8	327.0	327.6	327.4	326.2	324.2	321.6	318.3	314.3	309.5	304.1
62.5°	361.2	362.7	363.5	363.4	362.0	359.8	356.7	352.9	348.3	343.0	336.8
60°	397.5	399.2	400.0	399.8	398.3	395.9	392.5	388.2	382.9	376.8	370.3
57.5°	433.3	435.1	436.0	435.8	434.5	432.1	428.8	424.5	419.1	412.7	405.3
55°	469.6	471.7	472.7	472.5	471.0	468.3	464.5	459.6	453.6	446.8	439.2
52.5°	506.0	508.3	509.3	509.2	507.6	504.8	500.8	495.4	488.8	481.1	472.8
50°	542.9	545.4	546.5	546.3	544.6	541.7	537.5	532.0	525.2	516.9	507.4
47.5°	578.8	581.6	582.8	582.7	581.1	578.2	573.9	567.7	559.8	550.7	540.8
45°	615.1	618.3	619.9	619.9	618.0	614.7	609.9	603.8	595.6	585.7	574.7
42.5°	650.0	653.7	655.7	655.9	653.6	649.6	644.0	637.5	629.6	619.4	607.9
40°	685.6	689.3	691.0	690.8	688.9	685.3	679.8	672.3	662.7	651.4	639.1
37.5°	719.0	722.9	724.8	724.7	722.4	717.9	711.7	704.6	695.9	685.0	671.1
35°	751.9	756.1	758.1	758.1	755.8	751.4	745.2	737.2	727.7	714.0	700.9
32.5°	784.7	788.8	790.7	790.3	788.0	783.4	776.7	768.1	757.1	744.4	730.4
30°	815.1	819.9	822.6	823.1	820.0	814.7	807.2	798.2	787.3	773.6	758.4
27.5°	844.1	849.0	850.8	850.6	848.1	843.2	835.9	826.6	814.1	800.3	785.4
25°	871.6	876.5	879.1	879.1	876.4	871.1	863.3	853.0	840.7	826.7	809.7
22.5°	897.4	901.6	903.9	903.9	901.2	896.0	888.3	878.0	865.5	849.9	833.2
20°	919.5	924.8	928.2	929.2	926.1	919.9	911.3	900.8	887.5	871.9	854.0
17.5°	941.4	945.7	948.9	949.2	946.2	940.2	931.8	922.0	907.9	892.1	872.6
15°	958.4	964.4	966.0	966.2	963.2	957.8	949.1	938.7	925.0	909.2	890.2
12.5°	974.3	979.9	983.1	983.6	980.1	974.6	965.9	954.0	940.0	922.8	904.5
10°	988.0	992.5	996.2	997.1	992.6	988.1	978.5	967.1	952.7	936.1	914.9
7.5°	998.7	1004.8	1007.2	1007.4	1002.9	998.3	989.5	977.4	963.0	945.1	923.7
5°	1006.7	1012.2	1015.5	1014.8	1009.7	1006.6	997.0	985.3	969.8	952.7	932.7
2.5°	1011.2	1016.7	1019.2	1017.9	1015.8	1009.1	1000.5	989.0	975.2	956.9	936.9
0°	1013.0	1019.1	1022.0	1020.5	1018.3	1013.2	1003.8	989.3	976.7	957.9	938.2
-2.5°	1011.4	1017.8	1020.8	1018.1	1015.4	1009.1	1000.5	987.8	974.4	956.0	936.4
-5°	1007.3	1012.7	1014.9	1015.0	1009.9	1004.6	995.3	983.4	968.7	951.4	931.8
-7.5°	1000.2	1004.6	1004.4	1007.2	1004.5	996.3	988.4	976.5	961.8	944.4	924.6
-10°	990.0	995.5	997.5	997.8	993.9	987.8	978.6	967.0	952.5	935.2	915.8
-12.5°	977.0	982.1	985.0	984.4	980.9	974.8	966.7	954.4	940.1	923.4	904.2
-15°	962.0	967.1	969.9	970.5	966.7	959.4	950.1	939.4	925.6	909.0	890.2
-17.5°	941.1	947.5	950.8	951.2	947.7	941.7	932.8	923.7	908.6	892.3	873.5
-20°	922.4	927.8	930.3	929.8	927.9	922.7	913.6	902.7	888.5	872.4	854.8

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	899.2	904.9	908.6	909.1	905.4	898.9	889.9	878.5	865.7	850.8	834.4
-25°	875.5	880.7	884.0	884.8	880.4	873.5	864.6	853.5	842.5	828.7	811.2
-27.5°	850.1	854.3	857.0	857.4	853.5	847.4	839.9	830.0	816.7	802.6	787.1
-30°	822.4	826.6	828.6	828.3	824.7	818.7	810.8	801.7	790.2	775.4	759.4
-32.5°	791.2	795.3	797.5	797.5	794.2	788.6	780.7	770.2	759.1	746.7	732.1
-35°	760.4	764.2	766.2	766.3	762.9	757.4	749.8	740.4	729.9	716.8	703.0
-37.5°	726.9	730.5	732.3	732.2	729.0	723.8	716.8	708.3	697.9	684.8	672.2
-40°	692.7	696.1	697.7	697.4	694.3	689.5	682.9	674.9	665.3	654.4	641.9
-42.5°	657.8	660.4	661.5	661.1	658.6	654.5	648.7	641.1	631.1	620.2	609.0
-45°	622.7	625.2	626.2	625.7	623.2	619.2	613.7	606.8	598.0	587.2	576.1
-47.5°	587.0	589.6	590.8	590.5	587.8	583.7	578.2	571.4	563.4	554.0	543.5
-50°	550.5	553.0	554.1	553.8	551.4	547.6	542.4	535.9	528.3	520.1	510.5
-52.5°	513.2	515.4	516.4	516.1	513.9	510.5	505.8	500.0	493.1	485.0	475.4
-55°	476.9	478.7	479.5	479.1	476.9	473.6	469.2	463.8	457.3	449.8	441.3
-57.5°	440.3	441.9	442.6	442.2	440.1	437.0	432.8	427.7	421.9	415.2	407.4
-60°	403.9	405.5	406.2	405.9	403.9	401.0	397.2	392.5	387.0	380.7	373.8
-62.5°	366.3	367.4	367.6	367.0	365.4	363.1	359.9	355.8	351.1	345.7	339.6
-65°	330.9	331.7	331.8	331.1	329.7	327.5	324.6	321.0	316.7	311.7	306.0
-67.5°	296.0	296.6	296.5	295.9	294.5	292.6	290.0	286.8	283.1	278.6	273.6
-70°	261.5	262.0	261.9	261.2	259.9	258.1	255.8	253.0	249.7	245.9	241.7
-72.5°	228.3	228.6	228.4	227.7	226.6	225.0	223.0	220.5	217.6	214.3	210.5
-75°	196.1	196.3	196.0	195.4	194.2	192.7	190.8	188.6	186.0	183.1	179.9
-77.5°	165.1	165.2	165.0	164.5	163.5	162.2	160.6	158.7	156.6	154.1	151.5
-80°	136.4	136.3	136.1	135.7	134.8	133.6	132.3	130.7	129.0	127.1	124.9
-82.5°	109.8	109.7	109.4	109.0	108.2	107.2	106.2	105.0	103.6	102.2	100.6
-85°	86.0	85.7	85.4	85.0	84.3	83.6	82.7	81.8	80.8	79.8	78.6
-87.5°	65.2	64.9	64.5	64.2	63.6	63.0	62.4	61.7	61.1	60.3	59.6
-90°	46.4	46.0	45.6	45.2	44.9	44.6	44.4	44.1	43.8	43.5	43.3

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	42.8	42.4	42.2	41.9	41.7	41.4	41.2	40.9	40.7	40.4	40.2
87.5°	59.0	58.3	57.7	57.0	56.2	55.5	54.7	54.0	53.2	52.4	51.6
85°	77.7	76.6	75.5	74.3	73.1	71.8	70.4	69.0	67.5	66.0	64.5
82.5°	99.2	97.6	95.8	94.0	92.0	90.0	87.8	85.6	83.5	81.2	78.9
80°	122.8	120.5	118.1	115.7	113.1	110.3	107.4	104.3	101.1	97.8	94.5
77.5°	149.0	146.2	143.0	139.6	136.0	132.3	128.4	124.3	120.2	115.9	111.7
75°	176.4	172.8	168.9	164.7	160.2	155.8	151.0	146.0	140.7	135.1	129.7
72.5°	205.3	201.1	196.6	191.6	186.2	180.6	174.7	168.5	162.0	155.4	149.1
70°	235.6	230.6	225.3	219.4	213.1	206.6	199.7	192.4	184.6	176.8	169.0
67.5°	266.4	260.5	254.2	247.7	240.7	233.3	225.5	217.2	208.4	199.3	190.0
65°	297.9	291.2	284.5	277.3	268.9	259.9	251.2	241.9	232.0	222.2	211.8
62.5°	330.0	323.1	315.3	306.6	297.3	287.5	277.8	266.9	255.6	244.8	233.0
60°	363.1	354.9	346.0	336.6	326.7	316.2	304.4	292.3	280.2	267.5	254.4
57.5°	396.7	387.3	377.3	367.0	355.8	343.9	331.8	318.9	304.7	290.5	276.5
55°	430.6	421.0	409.8	397.8	385.2	372.4	358.4	344.1	329.8	314.4	298.0
52.5°	463.1	452.3	440.7	428.4	415.3	400.3	385.4	370.4	353.6	337.3	320.4
50°	496.5	484.6	471.9	458.4	443.8	428.1	412.6	394.9	378.1	360.0	341.5
47.5°	529.7	517.3	503.4	488.0	472.4	456.0	438.5	420.6	401.7	382.3	362.8
45°	562.0	548.2	533.4	518.1	501.3	482.8	464.4	445.6	425.1	405.0	383.1
42.5°	595.2	579.7	563.7	546.9	528.3	510.1	489.7	469.5	448.7	426.3	404.4
40°	626.2	610.3	594.0	575.0	556.0	535.2	515.0	493.3	470.9	448.1	424.0
37.5°	655.9	639.3	622.8	603.0	582.3	560.7	539.0	516.2	492.7	468.3	443.6
35°	686.2	668.1	649.8	629.6	608.2	585.7	562.2	538.3	513.5	488.1	461.8
32.5°	713.1	696.2	676.3	654.8	632.4	609.4	584.8	559.5	533.4	506.6	479.6
30°	740.9	722.2	700.5	679.7	655.8	631.5	605.9	579.4	552.2	524.7	495.8
27.5°	767.2	746.9	725.5	701.6	678.6	652.2	626.1	598.1	569.8	540.5	511.4
25°	791.3	770.5	748.4	724.6	699.2	672.6	643.1	615.8	586.7	557.0	526.7
22.5°	813.9	792.3	769.3	744.7	718.6	692.1	662.6	632.0	601.0	570.4	538.7
20°	834.9	812.7	788.8	763.4	736.5	708.1	678.4	645.0	615.0	583.9	551.7
17.5°	852.5	831.4	805.9	780.1	752.2	723.3	693.6	661.5	628.6	595.3	562.9
15°	869.5	845.1	821.7	793.6	765.6	736.3	705.7	672.6	637.9	605.8	571.9
12.5°	882.4	859.8	835.5	806.5	777.9	747.5	716.0	683.5	648.5	614.8	580.1
10°	893.9	871.0	843.6	817.6	787.6	757.5	725.2	691.9	658.2	622.6	586.7
7.5°	903.2	878.8	853.6	826.4	795.5	764.5	731.9	698.4	664.1	628.6	592.3
5°	909.9	884.6	860.6	832.1	801.4	769.6	736.4	702.9	668.3	632.4	596.4
2.5°	914.0	888.3	864.5	835.0	804.8	772.6	739.1	705.5	670.7	634.8	598.9
0°	915.8	889.3	865.5	835.9	805.9	773.4	739.8	706.2	671.5	635.6	599.8
-2.5°	914.4	888.2	863.8	834.5	804.5	772.4	738.8	705.2	670.6	634.9	598.9
-5°	910.2	884.5	859.7	830.6	800.9	769.2	735.8	702.2	667.9	632.4	596.3
-7.5°	902.9	878.4	853.2	824.4	795.1	763.9	730.8	697.3	663.4	628.3	592.1
-10°	893.6	869.2	843.8	815.8	786.7	756.4	723.8	690.4	657.2	622.3	586.4
-12.5°	882.5	858.8	832.9	804.8	776.4	746.2	714.8	681.9	648.8	614.7	579.6
-15°	868.8	845.7	820.2	793.2	764.6	734.3	703.7	671.8	639.0	605.7	571.5
-17.5°	853.1	830.4	805.4	779.1	751.0	721.6	691.0	659.7	627.8	595.1	561.8
-20°	835.2	812.7	788.5	763.0	735.6	707.2	677.2	646.4	614.8	583.1	550.4

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CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	814.7	792.8	770.0	745.1	718.6	690.8	661.8	631.9	601.2	569.7	537.9
-25°	792.4	771.8	749.4	725.0	699.7	672.8	644.9	615.8	586.2	555.4	524.6
-27.5°	768.1	748.8	726.7	703.8	679.2	653.3	626.3	598.5	569.7	540.1	510.3
-30°	742.6	723.8	703.0	680.8	657.2	632.3	606.6	579.7	551.9	523.8	495.0
-32.5°	715.7	697.6	677.5	656.5	633.8	610.3	585.5	559.7	533.4	506.3	478.6
-35°	686.9	669.7	651.5	630.8	609.6	586.9	563.2	538.9	513.6	487.7	461.3
-37.5°	658.1	641.7	623.0	604.4	583.9	562.5	540.2	517.0	493.0	468.5	443.2
-40°	626.3	611.6	595.1	576.7	557.6	537.5	516.3	494.3	471.7	448.2	424.1
-42.5°	596.2	581.0	565.5	548.7	530.7	511.6	491.6	470.9	449.4	427.1	404.8
-45°	564.0	550.5	535.9	519.9	503.1	485.1	466.3	446.8	426.4	405.9	384.0
-47.5°	531.8	519.3	505.7	490.5	474.6	457.7	440.2	422.0	403.5	383.1	362.5
-50°	499.1	487.3	474.2	460.2	445.6	430.0	414.0	397.0	378.2	359.7	341.3
-52.5°	465.0	454.4	442.7	429.9	416.5	402.5	386.5	369.7	353.4	336.9	319.9
-55°	431.8	421.7	411.3	399.7	386.8	372.9	358.9	344.1	329.2	313.9	298.1
-57.5°	398.8	389.6	379.6	368.8	357.1	344.5	331.9	318.5	304.6	290.6	276.5
-60°	366.2	357.3	347.7	338.1	327.7	316.6	304.8	292.7	280.3	267.7	254.6
-62.5°	332.7	325.0	316.7	307.8	298.3	288.4	278.3	267.4	256.1	244.5	232.9
-65°	299.7	292.8	285.9	278.3	269.9	260.9	251.6	242.0	232.0	221.7	211.3
-67.5°	268.0	261.9	255.4	248.5	241.4	233.8	225.5	217.0	208.3	199.3	190.1
-70°	236.8	231.5	225.8	220.0	213.7	207.0	199.9	192.6	185.0	177.2	169.3
-72.5°	206.2	201.6	196.8	191.6	186.2	180.6	174.8	168.7	162.4	155.8	149.1
-75°	176.3	172.5	168.7	164.6	160.3	155.7	150.9	145.9	140.7	135.2	129.9
-77.5°	148.6	145.5	142.5	139.1	135.7	132.1	128.3	124.3	120.2	115.9	111.6
-80°	122.6	120.2	117.9	115.4	112.8	110.0	107.0	104.0	101.0	97.8	94.4
-82.5°	98.9	97.1	95.4	93.6	91.7	89.7	87.6	85.4	83.3	81.0	78.7
-85°	77.4	76.2	75.1	73.9	72.7	71.4	70.1	68.7	67.3	65.8	64.3
-87.5°	58.8	58.0	57.4	56.7	56.0	55.3	54.5	53.8	53.0	52.3	51.5
-90°	43.0	42.7	42.4	42.1	41.8	41.5	41.3	41.0	40.7	40.4	40.1

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	40.0	39.8	39.6	39.4	39.2	39.0	38.8	38.6	38.4	38.4	38.5
87.5°	50.9	50.3	49.6	48.9	48.2	47.4	46.7	45.9	45.1	44.4	43.8
85°	63.1	61.6	60.2	58.8	57.4	55.9	54.5	53.0	51.5	50.1	48.6
82.5°	76.7	74.5	72.2	69.9	67.5	65.2	62.8	60.5	58.1	55.9	53.7
80°	91.4	88.2	84.9	81.7	78.5	75.2	71.9	68.5	65.2	62.1	58.8
77.5°	107.5	103.2	98.8	94.4	90.0	85.6	81.3	77.0	72.8	68.6	64.4
75°	124.4	119.1	113.6	108.1	102.4	96.9	91.3	85.9	80.5	75.3	70.2
72.5°	142.6	135.7	129.0	122.2	115.5	108.7	101.9	95.2	88.6	82.2	76.1
70°	161.1	153.2	145.4	137.1	128.9	120.8	112.9	104.9	97.1	89.5	82.1
67.5°	180.6	171.4	161.9	152.4	143.1	133.4	123.9	114.8	105.8	97.0	88.4
65°	201.1	190.2	179.1	168.2	157.2	146.5	135.6	124.9	114.7	104.6	94.8
62.5°	221.5	209.3	196.9	184.4	172.0	159.6	147.5	135.3	123.5	112.3	101.2
60°	241.6	228.1	214.7	200.8	186.9	173.0	159.3	145.9	132.7	119.9	107.7
57.5°	261.6	247.1	232.0	217.2	201.8	186.5	171.3	156.4	142.0	127.8	114.2
55°	282.2	265.9	249.6	233.0	216.6	199.9	183.4	166.9	151.1	135.7	120.7
52.5°	302.4	284.8	266.9	249.0	231.0	213.2	195.3	177.7	160.2	143.5	127.2
50°	323.0	303.4	284.3	264.8	245.5	226.1	207.0	188.1	169.3	151.1	133.6
47.5°	342.5	322.2	301.0	280.5	259.6	238.9	218.6	198.3	178.3	158.7	140.0
45°	362.0	340.1	317.9	295.4	273.4	251.5	229.8	208.4	187.0	166.1	146.2
42.5°	380.5	357.5	334.2	310.3	287.1	263.7	240.9	218.3	195.5	173.5	152.1
40°	399.7	374.5	349.7	324.9	299.8	275.7	251.7	227.7	203.8	180.5	158.0
37.5°	418.2	391.2	365.0	338.9	312.7	287.3	261.9	236.8	212.0	187.2	163.6
35°	435.1	408.4	378.9	352.1	325.3	298.1	271.6	245.6	219.8	193.7	169.0
32.5°	451.5	423.0	394.0	365.2	336.9	308.6	281.1	254.0	227.0	199.9	174.2
30°	467.1	437.6	408.5	376.8	347.9	318.9	289.9	261.6	233.8	206.0	179.0
27.5°	482.0	451.2	420.6	388.9	358.5	328.3	298.1	268.7	240.1	211.7	183.5
25°	494.9	463.9	432.2	400.4	368.3	336.8	305.9	275.5	246.1	217.0	187.6
22.5°	507.6	475.7	443.1	410.8	376.6	344.8	313.1	281.8	251.6	221.7	191.5
20°	519.3	486.3	452.8	419.2	384.7	352.1	319.9	287.4	256.6	225.9	195.1
17.5°	529.3	495.6	461.4	427.0	392.4	358.9	325.7	292.5	260.8	229.7	198.3
15°	537.3	503.9	468.9	434.1	399.0	364.9	330.5	297.0	264.5	233.0	201.0
12.5°	545.1	511.2	475.5	440.1	404.6	369.5	334.6	300.8	267.6	235.8	203.5
10°	552.2	516.8	480.8	445.0	409.1	373.2	338.0	303.9	270.3	238.1	205.5
7.5°	557.6	520.9	485.0	448.9	412.5	376.0	340.8	306.4	272.4	239.9	207.1
5°	560.8	523.7	488.1	451.7	414.8	378.0	342.8	308.2	273.8	241.2	208.3
2.5°	562.6	525.1	489.9	453.3	416.2	379.2	344.1	309.2	274.7	241.9	209.0
0°	563.2	525.4	490.5	453.8	416.6	379.6	344.5	309.6	275.0	242.2	209.2
-2.5°	562.5	524.9	489.7	453.2	416.1	379.3	344.0	309.3	274.7	241.9	208.9
-5°	560.4	523.3	487.7	451.4	414.6	378.1	342.8	308.2	273.8	241.1	208.2
-7.5°	557.0	520.3	484.5	448.5	412.0	376.1	340.8	306.4	272.3	239.8	207.0
-10°	551.6	516.1	480.1	444.5	408.5	373.3	337.9	304.0	270.3	238.0	205.4
-12.5°	544.7	510.5	474.6	439.5	404.0	369.6	334.6	300.8	267.6	235.6	203.2
-15°	536.8	503.3	468.0	433.4	398.5	364.9	330.5	297.0	264.5	232.8	200.8
-17.5°	527.9	494.8	460.5	426.3	392.1	358.9	325.7	292.5	260.7	229.4	197.9
-20°	517.9	484.8	451.8	418.2	384.8	352.2	319.9	287.3	256.4	225.6	194.6

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CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	506.5	474.1	441.9	409.3	376.9	344.8	313.3	281.5	251.4	221.3	190.8
-25°	493.7	462.4	431.0	399.5	368.4	336.7	306.0	275.4	245.9	216.6	186.9
-27.5°	479.8	449.7	419.2	388.8	358.6	328.3	298.2	268.6	239.8	211.2	182.7
-30°	465.7	436.1	406.7	377.3	347.9	319.0	289.8	261.4	233.4	205.4	178.2
-32.5°	450.4	421.9	393.4	365.3	336.8	308.9	280.8	253.7	226.5	199.2	173.3
-35°	434.3	407.1	379.6	352.2	325.2	298.2	271.4	245.2	219.2	192.7	168.1
-37.5°	417.4	391.5	365.0	338.7	312.9	287.0	261.6	236.4	211.3	186.0	162.7
-40°	400.0	374.8	349.7	324.9	300.0	275.5	251.3	227.1	203.0	179.3	157.0
-42.5°	381.2	357.5	334.0	310.5	286.8	263.5	240.4	217.5	194.2	172.2	151.1
-45°	361.8	339.8	317.9	295.5	273.2	251.1	229.1	207.5	185.4	164.9	145.1
-47.5°	342.3	321.9	301.1	280.2	259.3	238.3	217.7	196.9	176.7	157.4	138.9
-50°	322.6	303.4	284.1	264.7	245.0	225.3	205.9	186.2	167.8	149.8	132.5
-52.5°	302.4	284.7	266.9	248.7	230.4	212.1	193.4	175.8	158.7	142.1	126.1
-55°	282.2	265.9	249.3	232.5	215.6	198.6	181.4	165.2	149.5	134.3	119.6
-57.5°	261.8	246.8	231.6	216.2	200.7	184.8	169.5	154.6	140.4	126.5	113.0
-60°	241.3	227.7	213.9	199.8	185.4	171.5	157.6	144.1	131.1	118.6	106.5
-62.5°	220.9	208.7	196.0	183.4	170.7	158.2	145.8	133.5	122.0	110.8	99.9
-65°	200.6	189.6	178.5	167.3	156.1	145.1	134.0	123.2	113.0	103.1	93.5
-67.5°	180.6	171.0	161.4	151.6	141.9	132.1	122.6	113.1	104.1	95.5	87.1
-70°	161.2	152.9	144.6	136.2	127.9	119.6	111.3	103.2	95.4	88.0	80.8
-72.5°	142.3	135.3	128.4	121.4	114.4	107.4	100.4	93.5	86.9	80.8	74.8
-75°	124.3	118.7	112.9	107.2	101.3	95.6	89.9	84.3	78.9	73.9	69.0
-77.5°	107.2	102.6	98.2	93.6	89.0	84.4	79.9	75.5	71.1	67.1	63.3
-80°	91.1	87.7	84.3	80.9	77.4	73.9	70.5	67.0	63.7	60.8	57.8
-82.5°	76.3	73.9	71.5	69.0	66.5	64.1	61.6	59.2	56.7	54.7	52.6
-85°	62.8	61.3	59.7	58.2	56.6	55.0	53.4	51.7	50.1	48.9	47.6
-87.5°	50.7	49.9	49.1	48.3	47.5	46.6	45.8	44.9	44.0	43.5	42.9
-90°	40.0	39.9	39.8	39.7	39.7	39.6	39.5	39.4	39.3	39.2	39.2

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CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	38.5	38.6	38.6	38.7	38.7	38.8	38.8
87.5°	43.1	42.4	41.6	40.9	40.2	39.5	38.8
85°	47.1	45.7	44.3	42.9	41.5	40.2	38.8
82.5°	51.4	49.2	47.0	44.9	42.8	40.8	38.8
80°	55.8	52.8	49.9	47.0	44.1	41.5	38.8
77.5°	60.4	56.5	52.7	49.1	45.5	42.1	38.8
75°	65.1	60.3	55.6	51.1	46.8	42.7	38.8
72.5°	70.1	64.2	58.5	53.3	48.2	43.4	38.8
70°	75.1	68.2	61.6	55.4	49.6	44.0	38.8
67.5°	80.1	72.3	64.7	57.5	50.9	44.6	38.8
65°	85.3	76.4	67.8	59.7	52.2	45.2	38.8
62.5°	90.6	80.4	70.9	61.9	53.6	45.9	38.8
60°	95.9	84.5	74.0	64.0	54.9	46.5	38.8
57.5°	101.1	88.7	77.1	66.2	56.2	47.1	38.8
55°	106.5	92.9	80.1	68.4	57.4	47.7	38.8
52.5°	111.7	97.0	83.0	70.5	58.7	48.3	38.8
50°	116.9	101.0	86.1	72.5	59.9	48.8	38.8
47.5°	121.9	105.0	89.1	74.5	61.2	49.3	38.8
45°	127.0	108.9	92.0	76.5	62.3	49.8	38.8
42.5°	131.8	112.7	94.8	78.3	63.5	50.3	38.8
40°	136.6	116.4	97.5	80.1	64.6	50.8	38.8
37.5°	141.1	119.9	100.1	81.8	65.6	51.2	38.8
35°	145.5	123.3	102.6	83.5	66.6	51.7	38.8
32.5°	149.6	126.5	104.9	85.2	67.6	52.1	38.8
30°	153.5	129.5	107.2	86.7	68.5	52.5	38.8
27.5°	157.2	132.3	109.2	88.1	69.3	52.8	38.8
25°	160.6	135.0	111.1	89.5	70.1	53.2	38.8
22.5°	163.7	137.4	112.9	90.7	70.8	53.5	38.8
20°	166.5	139.6	114.6	91.7	71.4	53.7	38.8
17.5°	169.0	141.5	116.0	92.7	72.0	54.0	38.8
15°	171.2	143.2	117.3	93.6	72.5	54.2	38.8
12.5°	173.0	144.6	118.3	94.3	72.9	54.4	38.8
10°	174.5	145.8	119.2	94.8	73.2	54.5	38.8
7.5°	175.7	146.7	119.9	95.3	73.5	54.6	38.8
5°	176.5	147.4	120.3	95.6	73.7	54.7	38.8
2.5°	177.0	147.8	120.6	95.8	73.8	54.7	38.8
0°	177.1	147.9	120.7	95.9	73.8	54.8	38.8
-2.5°	176.9	147.7	120.6	95.8	73.8	54.7	38.8
-5°	176.4	147.3	120.3	95.6	73.6	54.7	38.8
-7.5°	175.5	146.6	119.8	95.2	73.4	54.6	38.8
-10°	174.3	145.6	119.1	94.7	73.2	54.5	38.8
-12.5°	172.7	144.4	118.2	94.1	72.8	54.3	38.8
-15°	170.8	142.9	117.1	93.4	72.4	54.1	38.8
-17.5°	168.6	141.2	115.8	92.5	71.9	53.9	38.8
-20°	166.0	139.2	114.3	91.5	71.3	53.7	38.8

REPORT NUMBER: P1209899 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-3500K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	163.2	137.0	112.6	90.4	70.7	53.4	38.8
-25°	160.0	134.5	110.8	89.2	69.9	53.1	38.8
-27.5°	156.6	131.8	108.8	87.9	69.1	52.8	38.8
-30°	152.8	129.0	106.7	86.4	68.3	52.4	38.8
-32.5°	148.9	126.0	104.5	84.8	67.4	52.0	38.8
-35°	144.8	122.7	102.1	83.2	66.4	51.6	38.8
-37.5°	140.4	119.3	99.6	81.4	65.4	51.1	38.8
-40°	135.8	115.8	97.0	79.7	64.3	50.7	38.8
-42.5°	131.0	112.0	94.3	77.9	63.2	50.2	38.8
-45°	126.2	108.2	91.4	76.1	62.1	49.7	38.8
-47.5°	121.1	104.3	88.5	74.1	60.9	49.2	38.8
-50°	116.0	100.2	85.5	72.1	59.7	48.7	38.8
-52.5°	110.7	96.2	82.4	70.0	58.4	48.1	38.8
-55°	105.5	92.1	79.5	67.9	57.2	47.6	38.8
-57.5°	100.1	87.9	76.5	65.7	55.9	47.0	38.8
-60°	94.8	83.7	73.4	63.6	54.6	46.4	38.8
-62.5°	89.5	79.6	70.3	61.5	53.3	45.8	38.8
-65°	84.2	75.5	67.1	59.3	51.9	45.1	38.8
-67.5°	79.1	71.4	64.0	57.1	50.6	44.5	38.8
-70°	74.0	67.4	61.0	55.0	49.3	43.9	38.8
-72.5°	69.0	63.4	57.9	52.8	47.9	43.3	38.8
-75°	64.1	59.5	55.0	50.7	46.6	42.6	38.8
-77.5°	59.4	55.7	52.1	48.6	45.2	42.0	38.8
-80°	54.9	52.0	49.3	46.6	43.9	41.4	38.8
-82.5°	50.5	48.5	46.5	44.5	42.6	40.7	38.8
-85°	46.4	45.0	43.8	42.6	41.3	40.1	38.8
-87.5°	42.4	41.8	41.2	40.6	40.0	39.4	38.8
-90°	39.1	39.1	39.0	39.0	38.9	38.9	38.8

(END OF REPORT)