

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: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: BKHDR150CLD2D-LO-4000K

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1209895 (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-LO-4000K
Description: BULK HEAD 2100LM SEL 5CCT UNV D2D BRONZE at 4000K CCT

Light Source:
Ballast/Driver: ELECTRONIC DRIVER

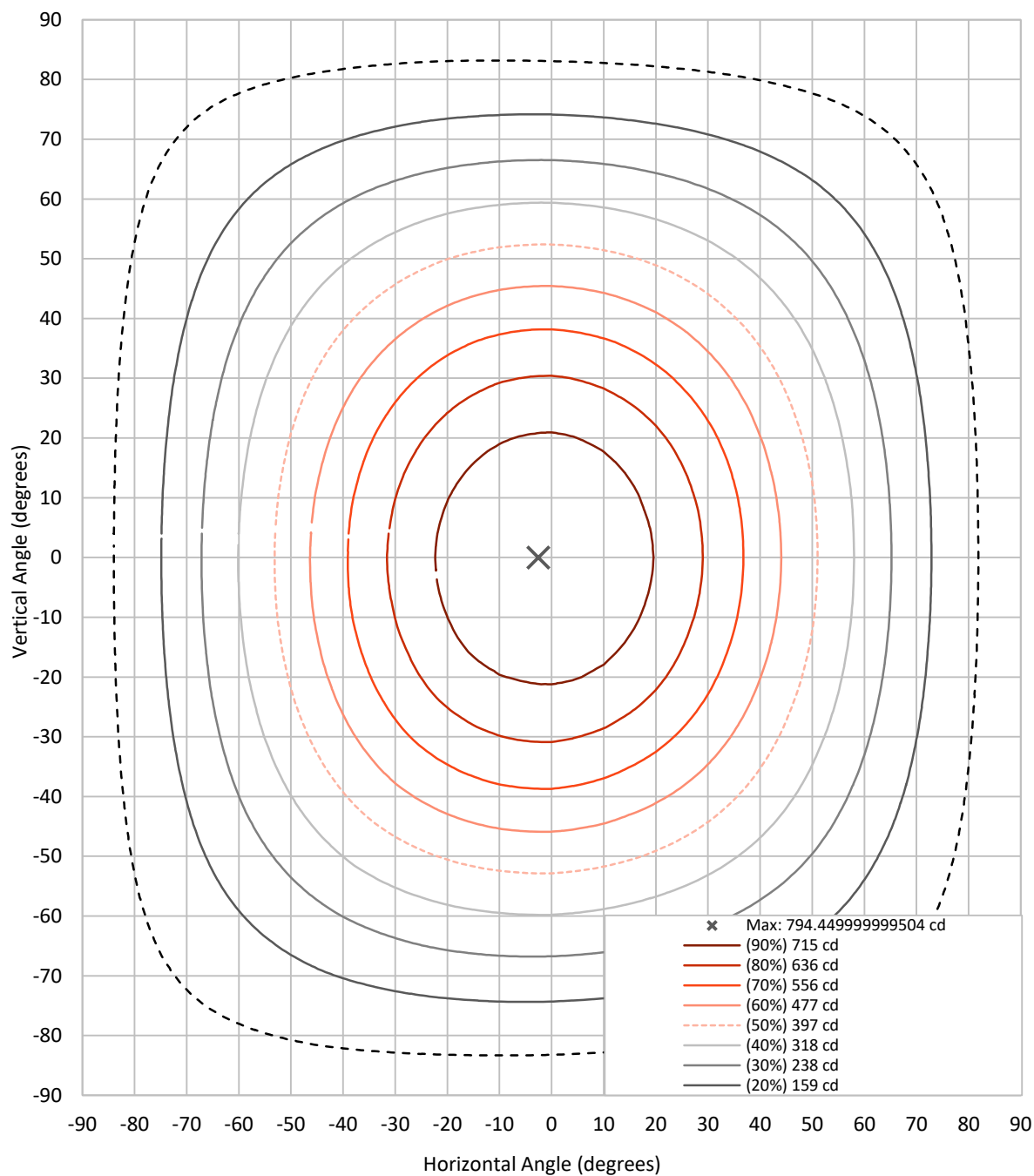
Summary

Lumens per Lamp:	2087.9 (1 lamp)	NEMA Type:	7H x 7V
Luminaire Lumens:	2152.1 lumens	Max Intensity:	794.4 candela
Efficiency:	103.1%	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	126.6 lumens/watt		
Luminous Opening:	Circular (Dia: 0.76' x H: 0')		
Beam Angle (50%):	104.2°H x 105.2°V	Field Angle (10%):	165.8°H x 166.3°V
Beam Lumens:	1422.8 lumens	Field Lumens:	2108.6 lumens
Beam Efficiency:	66.1%	Field Efficiency:	98.0%
Input Watts (W):	17		
Input Voltage (V):	120		
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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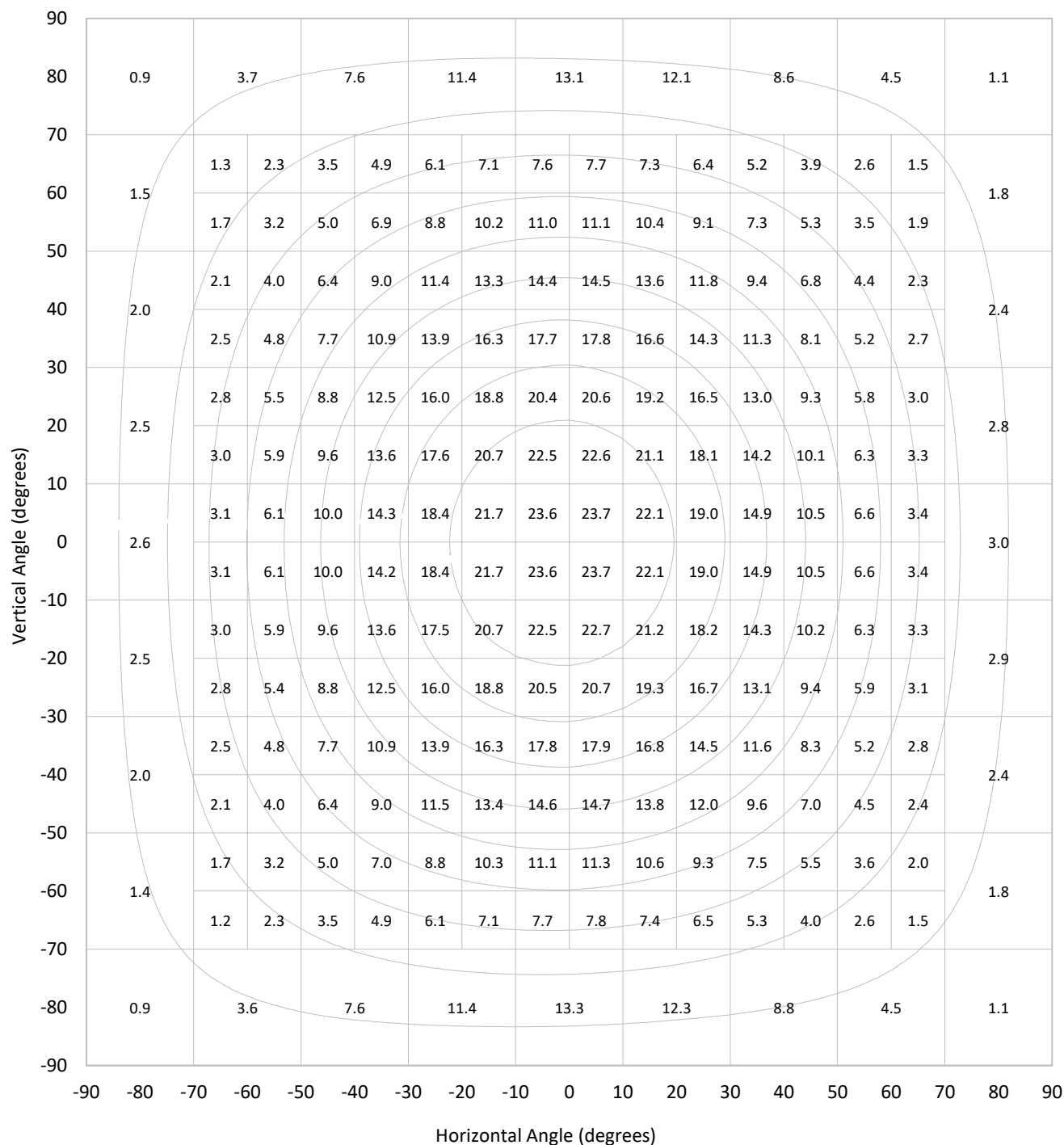
CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

Iso-Candela Plot



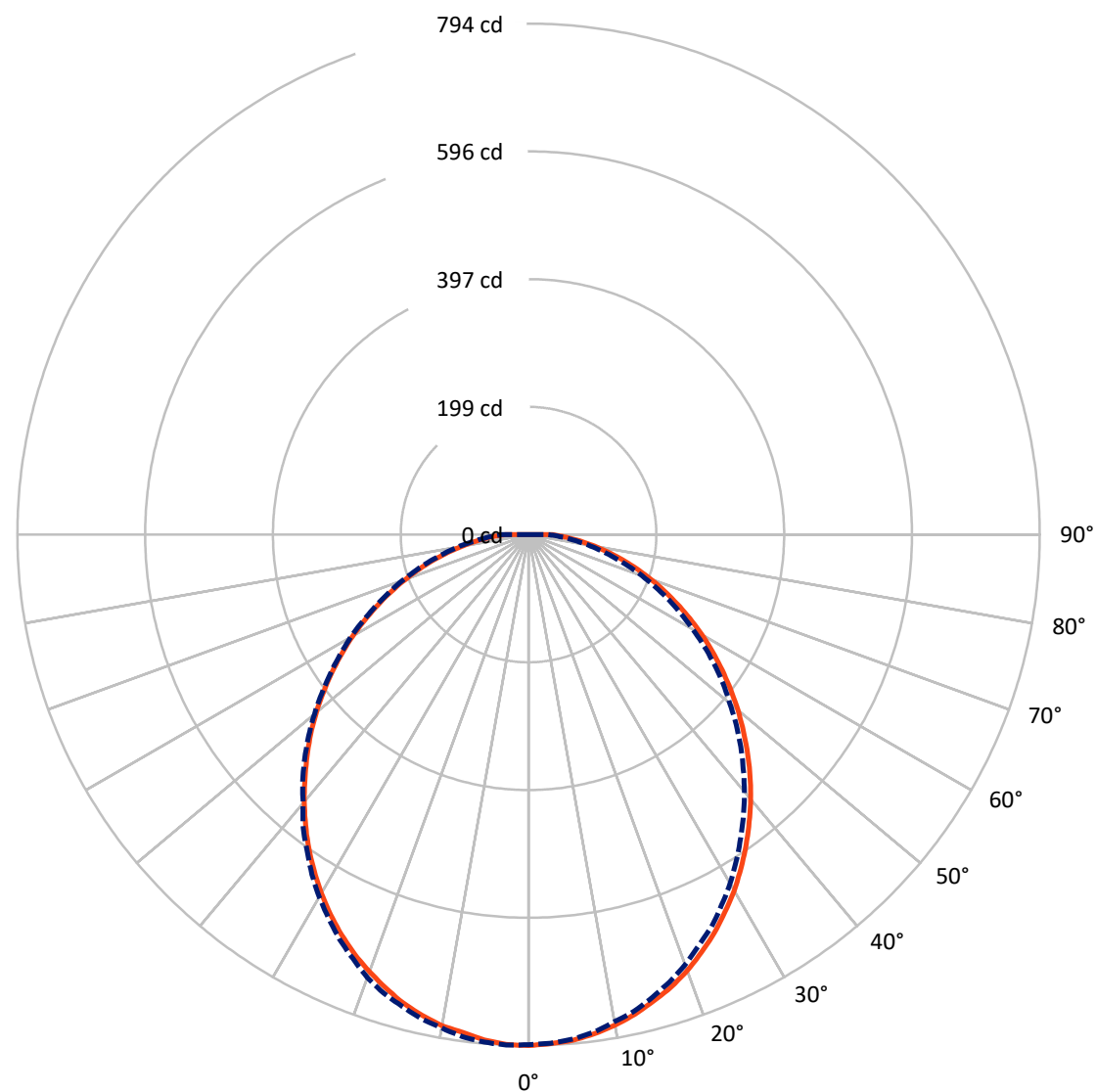
REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table



REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

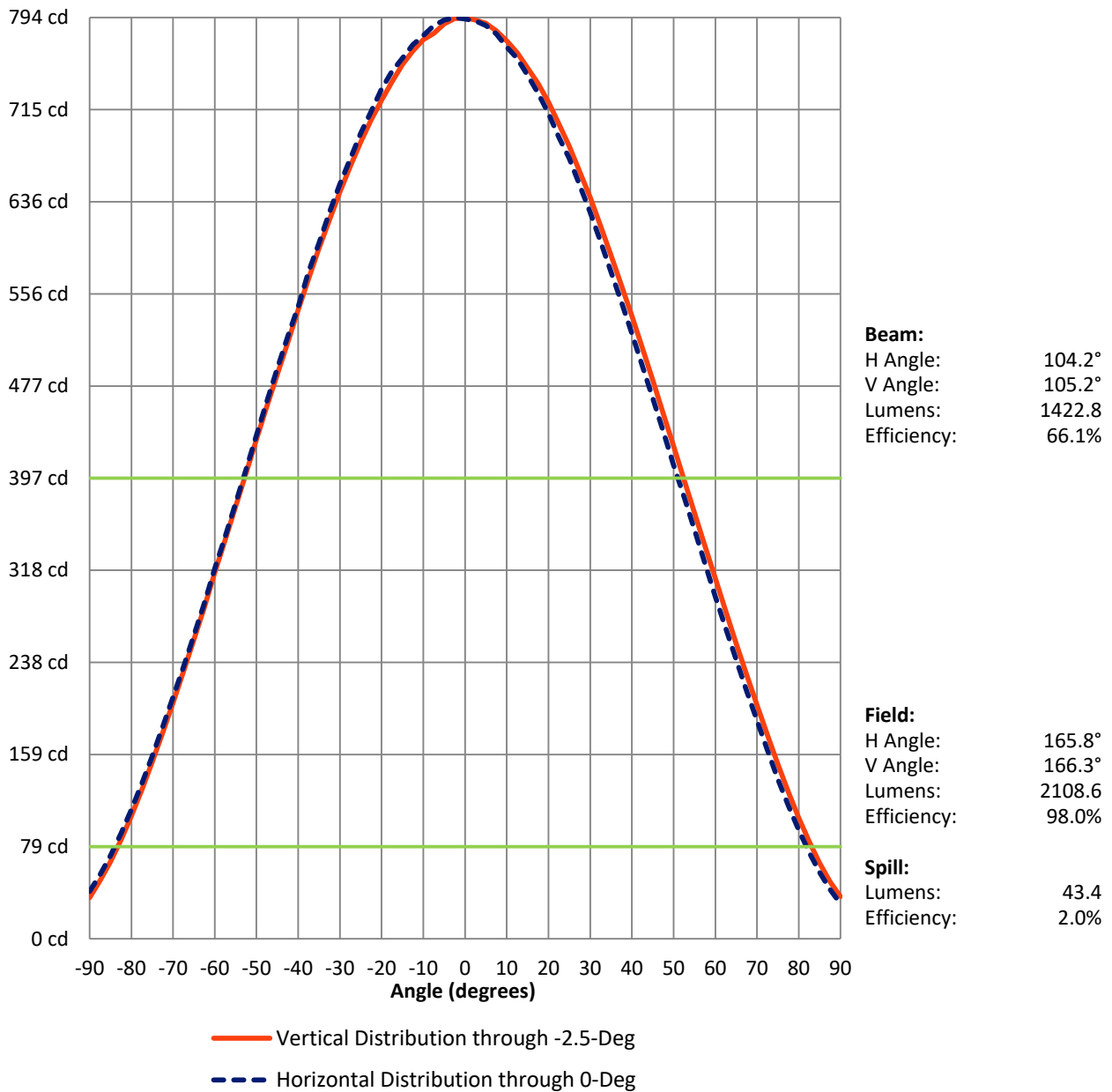
Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

Luminous Intensity Plot



REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	40.9	40.9	40.9	41.0	41.0	41.0	41.0	41.1	41.1	41.1	41.1
87.5°	40.9	41.5	42.1	42.7	43.3	43.8	44.4	45.0	45.5	46.1	46.5
85°	40.9	42.1	43.3	44.5	45.6	46.8	48.0	49.2	50.4	51.6	52.6
82.5°	40.9	42.7	44.5	46.2	48.1	49.9	51.8	53.7	55.6	57.5	59.2
80°	40.9	43.3	45.7	48.1	50.6	53.1	55.7	58.3	60.9	63.6	66.1
77.5°	40.9	43.9	46.8	50.0	53.1	56.4	59.7	63.1	66.5	70.0	73.3
75°	40.9	44.5	48.1	51.8	55.7	59.7	63.8	68.0	72.3	76.6	80.9
72.5°	40.9	45.0	49.3	53.7	58.3	63.1	68.0	73.1	78.2	83.5	88.7
70°	40.9	45.6	50.5	55.6	61.0	66.5	72.3	78.3	84.4	90.6	96.8
67.5°	40.9	46.2	51.7	57.5	63.6	70.0	76.7	83.6	90.6	97.8	105.1
65°	40.9	46.7	52.9	59.4	66.3	73.5	81.1	88.9	96.9	105.1	113.5
62.5°	40.9	47.3	54.1	61.3	69.0	77.1	85.6	94.2	103.3	112.6	122.0
60°	40.9	47.8	55.2	63.2	71.6	80.7	90.0	99.7	109.8	120.0	130.5
57.5°	40.9	48.4	56.4	65.0	74.3	84.2	94.3	105.1	116.2	127.5	139.1
55°	40.9	48.9	57.5	66.9	77.0	87.7	98.8	110.5	122.6	135.0	147.6
52.5°	40.9	49.4	58.6	68.7	79.6	91.1	103.2	115.9	128.9	142.4	156.0
50°	40.9	49.9	59.7	70.4	82.2	94.4	107.5	121.2	135.3	149.7	164.4
47.5°	40.9	50.4	60.8	72.1	84.7	97.8	111.8	126.3	141.4	156.8	172.6
45°	40.9	50.8	61.8	73.9	87.1	101.1	116.0	131.4	147.4	163.8	180.6
42.5°	40.9	51.3	62.8	75.6	89.5	104.2	120.0	136.3	153.3	170.7	188.3
40°	40.9	51.7	63.8	77.2	91.7	107.3	123.9	141.1	158.9	177.3	195.9
37.5°	40.9	52.1	64.7	78.7	93.8	110.2	127.5	145.6	164.4	183.6	203.2
35°	40.9	52.5	65.5	80.2	95.9	113.1	131.1	150.0	169.6	189.7	210.2
32.5°	40.9	52.9	66.4	81.6	97.9	115.8	134.5	154.2	174.7	195.4	216.8
30°	40.9	53.2	67.1	82.9	99.8	118.3	137.7	158.1	179.4	200.9	223.0
27.5°	40.9	53.5	67.8	84.1	101.6	120.7	140.7	161.8	183.7	206.1	228.7
25°	40.9	53.8	68.5	85.2	103.2	122.8	143.5	165.2	187.7	210.9	234.2
22.5°	40.9	54.1	69.1	86.2	104.7	124.8	146.0	168.3	191.5	215.2	239.2
20°	40.9	54.3	69.6	87.1	106.1	126.6	148.3	171.3	194.9	219.2	243.6
17.5°	40.9	54.5	70.1	87.9	107.3	128.2	150.4	173.9	197.9	222.6	247.6
15°	40.9	54.7	70.5	88.6	108.3	129.6	152.2	176.2	200.6	225.6	251.1
12.5°	40.9	54.9	70.9	89.3	109.2	130.8	153.8	178.1	202.9	228.2	254.2
10°	40.9	55.0	71.2	89.8	110.0	131.8	155.1	179.7	204.8	230.4	256.8
7.5°	40.9	55.1	71.4	90.1	110.5	132.6	156.1	180.9	206.4	232.1	258.8
5°	40.9	55.2	71.6	90.4	111.0	133.2	156.8	181.8	207.5	233.3	260.3
2.5°	40.9	55.2	71.7	90.6	111.2	133.5	157.2	182.3	208.1	234.1	261.3
0°	40.9	55.2	71.7	90.6	111.2	133.5	157.2	182.3	208.1	234.1	261.3
-2.5°	40.9	55.2	71.7	90.6	111.2	133.5	157.2	182.3	208.1	234.1	261.3
-5°	40.9	55.2	71.6	90.5	111.0	133.3	157.0	182.0	207.8	233.8	260.9
-7.5°	40.9	55.1	71.4	90.2	110.6	132.8	156.4	181.3	206.9	232.7	259.7
-10°	40.9	55.0	71.2	89.8	110.1	132.0	155.5	180.2	205.6	231.2	257.9
-12.5°	40.9	54.9	70.9	89.3	109.4	131.1	154.3	178.7	203.9	229.2	255.5
-15°	40.9	54.7	70.6	88.7	108.5	129.9	152.8	176.9	201.7	226.8	252.6
-17.5°	40.9	54.6	70.2	88.0	107.5	128.5	151.0	174.7	199.2	224.0	249.3
-20°	40.9	54.3	69.7	87.2	106.3	127.0	149.0	172.2	196.3	220.7	245.6

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	40.9	54.1	69.2	86.3	105.0	125.2	146.7	169.4	193.0	217.0	241.4
-25°	40.9	53.8	68.6	85.3	103.5	123.2	144.2	166.3	189.2	212.9	236.5
-27.5°	40.9	53.5	67.9	84.2	101.8	121.1	141.5	163.0	185.3	208.4	231.1
-30°	40.9	53.2	67.2	83.0	100.1	118.7	138.5	159.4	181.0	203.4	225.5
-32.5°	40.9	52.9	66.4	81.7	98.2	116.2	135.3	155.5	176.3	198.0	219.6
-35°	40.9	52.5	65.6	80.3	96.2	113.6	131.9	151.4	171.4	192.1	213.2
-37.5°	40.9	52.1	64.7	78.9	94.1	110.7	128.3	146.9	166.2	186.0	206.5
-40°	40.9	51.7	63.8	77.4	92.0	107.8	124.6	142.3	160.8	179.5	199.3
-42.5°	40.9	51.3	62.9	75.8	89.8	104.7	120.7	137.5	155.2	173.0	191.4
-45°	40.9	50.9	61.9	74.1	87.4	101.6	116.7	132.5	149.2	166.2	183.4
-47.5°	40.9	50.4	60.9	72.3	85.0	98.3	112.5	127.4	143.0	159.3	175.4
-50°	40.9	49.9	59.8	70.6	82.5	94.9	108.3	122.1	136.7	152.0	167.2
-52.5°	40.9	49.4	58.6	68.9	79.9	91.6	103.9	116.9	130.4	144.4	158.9
-55°	40.9	48.9	57.5	67.1	77.3	88.1	99.5	111.5	123.9	136.8	150.2
-57.5°	40.9	48.4	56.4	65.2	74.6	84.6	95.0	106.0	117.4	129.2	141.3
-60°	40.9	47.9	55.3	63.3	71.9	81.1	90.6	100.6	110.9	121.4	132.5
-62.5°	40.9	47.3	54.1	61.4	69.2	77.5	86.1	95.0	104.3	113.9	123.6
-65°	40.9	46.7	52.9	59.5	66.5	73.9	81.6	89.6	97.9	106.4	115.0
-67.5°	40.9	46.2	51.7	57.6	63.8	70.4	77.2	84.2	91.5	98.9	106.5
-70°	40.9	45.6	50.5	55.7	61.2	66.9	72.8	78.9	85.1	91.6	98.1
-72.5°	40.9	45.0	49.3	53.8	58.4	63.4	68.5	73.7	78.9	84.4	89.8
-75°	40.9	44.5	48.1	51.9	55.8	59.9	64.2	68.5	73.0	77.4	81.9
-77.5°	40.9	43.9	46.9	50.0	53.2	56.6	60.0	63.5	67.1	70.7	74.3
-80°	40.9	43.3	45.7	48.2	50.7	53.3	55.9	58.6	61.4	64.1	66.9
-82.5°	40.9	42.7	44.5	46.3	48.2	50.1	52.0	53.9	55.9	57.8	59.8
-85°	40.9	42.1	43.3	44.5	45.7	46.9	48.2	49.4	50.7	51.9	53.1
-87.5°	40.9	41.5	42.1	42.7	43.4	44.0	44.5	45.1	45.7	46.3	46.8
-90°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.7

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	41.0	41.0	41.0	40.9	40.9	40.9	40.8	40.8	40.5	40.3	40.0
87.5°	46.9	47.2	47.6	48.0	48.3	48.7	49.0	49.3	49.5	49.8	50.0
85°	53.7	54.7	55.7	56.6	57.5	58.4	59.3	60.2	61.0	61.8	62.5
82.5°	60.9	62.6	64.3	66.0	67.6	69.2	70.7	72.2	73.7	75.1	76.4
80°	68.6	71.1	73.6	76.0	78.4	80.8	83.0	85.3	87.5	89.6	91.7
77.5°	76.7	80.0	83.4	86.6	89.9	93.2	96.3	99.4	102.3	105.2	107.9
75°	85.2	89.4	93.6	97.9	102.1	106.2	110.2	114.1	117.9	121.6	125.2
72.5°	93.9	99.2	104.4	109.6	114.7	119.8	124.7	129.6	134.3	138.9	143.3
70°	103.0	109.2	115.5	121.7	127.8	133.9	139.8	145.6	151.6	157.3	162.6
67.5°	112.3	119.6	126.9	134.1	141.3	148.5	155.7	162.7	169.5	175.8	182.0
65°	121.8	130.1	138.5	146.8	155.2	163.6	171.7	179.7	187.4	194.6	201.7
62.5°	131.4	140.8	150.3	159.8	169.3	178.6	187.8	196.6	205.4	213.7	221.6
60°	141.0	151.6	162.2	172.8	183.3	193.7	203.9	213.9	223.6	232.8	241.7
57.5°	150.7	162.4	174.1	185.7	197.3	208.8	220.1	231.1	241.8	252.2	262.0
55°	160.3	173.1	185.8	198.6	211.4	223.9	236.2	248.3	260.0	271.4	282.5
52.5°	169.8	183.6	197.5	211.5	225.3	238.8	252.3	265.4	278.3	290.9	303.0
50°	179.2	194.1	209.1	224.1	238.9	253.7	268.1	282.4	296.5	310.1	323.0
47.5°	188.4	204.4	220.5	236.5	252.5	268.2	283.8	299.4	314.6	329.0	342.8
45°	197.4	214.5	231.6	248.7	265.7	282.5	299.5	316.3	332.2	347.6	362.5
42.5°	206.3	224.3	242.4	260.6	278.6	296.8	315.2	332.4	349.4	365.8	381.6
40°	214.8	233.8	252.9	272.0	291.2	311.0	329.8	348.2	366.2	383.5	400.5
37.5°	223.0	242.9	263.1	283.1	303.9	324.4	344.1	363.5	382.3	400.9	419.0
35°	230.8	251.7	272.7	293.8	316.2	337.1	357.8	378.1	398.2	417.8	436.8
32.5°	238.2	260.1	282.0	304.7	327.3	349.2	370.9	392.3	413.3	433.9	453.9
30°	245.2	268.0	290.7	315.1	338.0	360.9	383.3	405.8	427.8	449.4	470.2
27.5°	251.8	275.5	299.3	324.3	347.9	371.7	395.3	418.5	441.5	463.9	485.5
25°	258.1	282.4	307.6	332.8	357.2	381.7	406.2	430.4	454.2	477.5	500.0
22.5°	263.8	288.7	315.3	340.5	365.9	391.1	416.4	441.5	466.0	489.9	513.3
20°	269.0	294.3	321.9	347.4	373.6	399.8	425.8	451.5	476.9	501.5	525.7
17.5°	273.6	299.9	327.8	353.7	380.5	407.2	434.1	460.6	486.5	511.7	536.6
15°	277.8	304.9	332.8	359.6	386.6	414.0	441.5	468.7	494.9	520.9	546.1
12.5°	281.3	309.1	337.0	364.7	392.1	420.0	447.9	475.9	502.2	528.7	554.4
10°	284.3	312.7	340.5	368.5	396.8	425.0	453.3	481.8	508.2	535.4	561.5
7.5°	286.4	315.5	343.2	371.6	400.3	428.9	457.5	486.1	512.9	540.0	567.3
5°	288.0	317.5	345.2	373.7	402.7	431.7	460.7	489.2	516.4	543.0	571.5
2.5°	289.0	318.8	346.4	375.1	404.1	433.6	462.7	491.1	518.5	544.7	574.3
0°	289.3	319.3	346.9	375.6	404.7	434.3	463.5	491.9	519.3	545.1	575.4
-2.5°	289.3	319.1	346.8	375.5	404.6	434.1	463.3	491.6	519.1	545.1	574.7
-5°	288.7	318.1	345.9	374.5	403.5	432.8	461.9	490.2	517.6	544.0	572.5
-7.5°	287.4	316.3	344.3	372.7	401.6	430.4	459.5	487.5	514.7	541.5	568.7
-10°	285.5	313.8	341.9	370.0	398.5	427.0	455.8	483.7	510.5	537.7	563.5
-12.5°	282.9	310.6	338.7	366.4	394.4	422.6	450.7	478.3	504.7	531.6	556.8
-15°	279.7	306.7	334.7	361.8	389.4	417.0	444.7	471.8	498.0	524.5	548.9
-17.5°	275.9	302.4	329.9	356.4	383.6	410.5	437.9	465.1	490.1	516.2	540.6
-20°	271.7	297.5	324.4	350.5	376.8	403.3	430.0	456.8	480.8	505.7	530.6

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	266.8	292.0	318.0	343.8	369.2	395.4	421.1	446.4	471.1	495.0	519.0
-25°	261.2	285.7	310.7	336.1	361.0	386.5	411.2	436.0	461.2	482.9	505.5
-27.5°	254.8	279.2	303.4	327.8	352.3	376.3	400.4	424.5	447.6	470.6	492.3
-30°	248.4	272.3	295.6	318.9	342.5	365.4	389.4	412.0	434.5	456.8	477.7
-32.5°	241.6	264.7	286.5	309.0	331.6	354.6	376.8	398.8	420.4	441.4	462.4
-35°	234.1	255.8	277.9	300.1	321.0	342.7	363.7	385.1	405.5	425.7	445.0
-37.5°	226.4	247.1	268.7	288.5	309.1	329.8	350.5	370.2	390.3	409.2	427.7
-40°	218.5	238.0	258.0	277.9	297.7	316.6	336.1	355.3	373.9	392.3	409.7
-42.5°	210.3	228.5	247.3	266.7	284.4	303.4	321.4	339.7	357.2	374.5	391.1
-45°	201.7	218.9	236.3	253.9	271.9	288.6	306.4	323.2	340.2	356.2	371.9
-47.5°	192.2	209.1	225.1	241.6	258.2	274.6	290.3	306.7	322.1	337.8	352.3
-50°	182.5	198.7	213.9	229.0	244.4	259.7	274.6	289.0	304.2	318.3	332.3
-52.5°	173.1	187.5	202.4	216.4	230.4	244.5	258.5	272.1	285.1	298.6	311.5
-55°	163.6	176.6	190.0	203.6	216.5	229.3	242.0	254.6	266.9	278.3	289.7
-57.5°	153.8	165.9	177.9	190.1	202.5	214.1	225.7	237.1	248.2	259.1	269.0
-60°	143.6	155.0	166.0	176.9	187.8	198.8	209.3	219.6	229.7	239.3	248.2
-62.5°	133.7	143.7	153.9	163.8	173.6	183.2	192.8	202.1	211.1	219.7	227.7
-65°	123.7	132.7	141.6	150.6	159.4	168.0	176.5	184.7	192.7	200.0	207.1
-67.5°	114.1	121.7	129.7	137.4	145.2	152.8	160.2	167.5	174.6	181.0	187.1
-70°	104.6	111.3	117.9	124.6	131.3	137.8	144.2	150.5	156.5	161.9	167.2
-72.5°	95.4	101.0	106.6	112.2	117.7	123.2	128.7	134.0	138.8	143.3	147.6
-75°	86.4	91.0	95.5	100.1	104.7	109.2	113.6	117.9	121.8	125.5	128.9
-77.5°	77.8	81.4	85.0	88.5	92.1	95.6	99.2	102.6	105.6	108.3	110.9
-80°	69.6	72.3	75.0	77.7	80.4	83.0	85.5	87.9	90.1	92.1	93.9
-82.5°	61.7	63.6	65.5	67.4	69.2	71.0	72.8	74.6	76.0	77.3	78.5
-85°	54.3	55.5	56.6	57.7	58.8	60.0	61.0	62.1	62.8	63.4	64.0
-87.5°	47.4	47.9	48.4	48.9	49.4	49.9	50.4	50.8	51.0	51.1	51.2
-90°	40.6	40.4	40.2	40.1	39.9	39.7	39.6	39.4	39.2	39.1	38.9

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	39.8	39.5	39.3	39.0	38.8	38.5	38.2	38.0	37.7	37.4	37.2
87.5°	50.2	50.4	50.5	50.7	50.8	50.9	50.8	50.6	50.5	50.3	50.1
85°	63.2	63.8	64.5	65.0	65.5	65.9	66.1	66.1	66.2	66.1	66.0
82.5°	77.7	78.9	80.0	81.0	81.9	82.8	83.3	83.7	84.0	84.2	84.3
80°	93.6	95.4	97.0	98.6	100.0	101.3	102.2	103.0	103.6	104.1	104.3
77.5°	110.5	113.0	115.3	117.4	119.6	121.5	123.0	124.2	125.2	125.9	126.4
75°	128.7	132.0	135.0	137.8	140.5	142.9	144.8	146.4	147.7	148.8	149.7
72.5°	147.7	151.8	155.6	159.1	162.2	165.0	167.4	169.5	171.3	172.8	174.0
70°	167.6	172.2	176.6	180.7	184.6	188.1	191.2	193.9	196.2	198.1	199.6
67.5°	187.8	193.3	198.5	203.4	207.9	212.0	215.6	218.7	221.4	223.7	225.4
65°	208.4	214.7	220.7	226.3	231.5	236.2	240.3	243.9	247.0	249.7	251.7
62.5°	229.2	236.4	243.2	249.5	255.4	260.9	265.9	270.1	273.7	276.6	279.0
60°	250.3	258.3	266.1	273.3	279.9	285.9	291.3	296.3	300.5	304.1	306.9
57.5°	271.6	280.6	289.1	297.2	304.9	312.0	318.5	324.0	328.3	331.8	334.7
55°	293.0	303.1	312.7	321.8	330.1	337.4	344.1	349.9	354.9	359.1	362.5
52.5°	314.4	325.5	335.7	345.3	354.3	362.6	370.3	376.8	382.0	386.7	390.5
50°	335.4	347.3	358.5	369.1	378.9	388.0	396.5	403.4	409.6	415.0	419.1
47.5°	356.3	369.0	381.1	392.7	403.3	413.3	422.6	430.5	436.4	441.8	446.5
45°	376.6	390.5	403.7	416.2	427.9	437.9	447.3	456.0	463.4	469.5	474.5
42.5°	396.9	411.8	426.0	439.0	451.2	462.7	473.1	482.3	490.3	496.7	501.6
40°	416.9	432.6	447.6	461.7	474.9	486.9	498.0	507.5	515.8	522.8	528.4
37.5°	436.4	453.0	468.8	483.7	497.7	510.4	521.9	532.2	542.0	548.6	554.4
35°	455.2	472.7	489.2	505.1	519.8	533.2	545.6	556.3	566.3	574.5	579.9
32.5°	473.2	491.5	509.1	525.8	541.0	555.1	568.4	579.7	589.3	598.0	604.9
30°	490.2	509.6	528.2	545.1	561.3	576.7	589.8	602.1	613.1	622.6	628.9
27.5°	506.6	526.9	545.8	563.9	581.0	596.6	610.8	623.8	633.9	642.7	650.3
25°	522.0	542.8	562.7	581.7	599.3	615.4	629.9	642.7	654.1	664.0	671.1
22.5°	536.0	557.8	578.6	598.1	616.1	632.5	647.8	661.4	672.7	683.0	691.5
20°	549.1	571.5	592.8	612.9	631.4	648.7	664.4	677.9	690.3	700.7	708.6
17.5°	560.8	583.8	605.7	626.3	645.5	663.2	679.0	693.3	705.6	716.2	724.3
15°	571.2	594.6	617.1	638.1	657.8	676.0	692.3	706.7	719.6	730.2	738.6
12.5°	580.2	603.8	626.9	648.5	668.7	687.0	703.5	718.5	731.5	742.6	751.6
10°	587.7	611.5	635.1	656.9	677.7	696.3	713.2	728.5	741.7	752.9	761.5
7.5°	593.3	617.6	641.5	663.4	684.4	703.8	720.7	736.5	749.6	760.6	769.6
5°	597.1	622.3	646.3	668.1	689.6	709.7	726.6	742.0	755.3	766.6	775.7
2.5°	599.2	625.3	649.5	671.4	693.1	712.5	730.8	745.9	758.3	769.8	778.8
0°	600.0	626.5	650.8	672.7	694.7	713.5	732.9	748.0	759.4	771.0	778.9
-2.5°	599.7	625.7	649.9	671.9	693.6	712.7	731.1	746.3	758.7	769.8	778.7
-5°	598.0	623.1	647.0	669.4	690.6	710.1	727.5	743.0	757.0	766.6	776.0
-7.5°	594.8	619.0	641.8	664.7	686.0	705.2	722.3	737.8	750.8	761.9	770.6
-10°	589.7	613.8	636.3	657.6	679.2	698.5	714.9	730.1	743.6	755.4	764.4
-12.5°	582.3	606.5	629.6	651.0	671.8	689.9	706.4	722.2	733.9	745.9	753.9
-15°	574.1	597.8	620.1	639.8	660.5	679.6	696.4	711.3	724.6	732.8	740.8
-17.5°	564.4	587.5	610.2	630.7	649.3	668.2	683.8	698.4	710.9	720.4	727.2
-20°	553.4	575.9	598.0	618.3	636.8	653.5	670.7	683.4	694.8	703.8	712.7

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	541.6	563.2	583.8	604.7	622.9	639.6	653.6	667.5	677.9	686.7	693.5
-25°	528.4	549.3	569.3	588.5	607.3	623.5	637.0	649.0	660.0	668.5	675.1
-27.5°	513.1	534.3	553.5	571.6	589.2	605.1	618.0	629.5	640.9	649.6	655.9
-30°	498.0	516.9	536.7	554.2	569.8	583.9	597.8	609.0	618.7	626.7	634.1
-32.5°	481.8	500.2	517.0	535.1	549.9	563.6	575.4	586.7	596.3	604.0	610.6
-35°	464.2	482.6	499.3	513.3	528.3	541.6	553.4	564.0	572.5	580.1	586.4
-37.5°	445.4	462.6	479.3	493.5	505.8	518.1	529.1	539.4	548.1	555.8	561.2
-40°	426.4	442.5	457.1	471.4	484.2	495.4	505.2	514.9	522.0	528.5	534.4
-42.5°	407.2	421.6	435.3	448.2	460.2	471.5	481.1	489.6	497.0	503.2	508.0
-45°	387.0	400.4	412.9	424.8	436.1	446.4	455.7	463.9	470.9	476.4	480.8
-47.5°	365.8	378.7	390.3	401.3	411.5	420.8	429.6	437.5	443.9	449.1	453.3
-50°	344.8	356.1	367.2	377.6	387.0	395.5	403.1	410.0	416.0	420.8	424.8
-52.5°	322.6	333.9	344.1	353.3	362.0	370.0	377.1	383.4	388.8	392.9	396.3
-55°	300.7	310.9	320.1	329.0	337.1	344.3	350.8	356.4	361.2	365.2	368.3
-57.5°	278.4	287.4	296.4	304.4	311.6	318.2	324.2	329.5	333.9	337.4	340.2
-60°	256.9	265.1	272.8	279.9	286.2	292.5	298.2	302.4	306.1	309.3	312.0
-62.5°	235.3	242.4	249.2	255.6	261.7	267.3	272.3	276.1	279.0	281.4	283.3
-65°	213.9	220.4	226.4	232.0	237.0	241.5	245.6	248.9	251.8	254.2	256.0
-67.5°	192.8	198.1	203.3	208.3	212.9	217.0	220.5	223.4	225.8	227.7	229.1
-70°	172.2	177.0	181.4	185.5	189.2	192.4	195.1	197.4	199.5	201.2	202.5
-72.5°	151.7	155.7	159.5	162.9	166.0	168.9	171.3	173.2	174.8	176.1	176.9
-75°	132.1	135.1	138.0	140.6	143.0	145.1	147.0	148.8	150.2	151.3	152.0
-77.5°	113.3	115.7	117.8	119.8	121.6	123.2	124.5	125.6	126.6	127.4	128.0
-80°	95.7	97.4	99.0	100.5	101.8	102.8	103.7	104.5	105.1	105.5	105.8
-82.5°	79.6	80.6	81.5	82.4	83.1	83.8	84.3	84.7	85.0	85.3	85.4
-85°	64.6	65.2	65.6	66.0	66.4	66.7	66.9	67.0	67.1	67.1	67.0
-87.5°	51.3	51.4	51.4	51.5	51.5	51.4	51.4	51.3	51.2	51.0	50.9
-90°	38.7	38.6	38.4	38.2	38.1	37.9	37.6	37.3	37.0	36.7	36.3

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	36.9	36.6	36.4	36.1	35.8	35.4	35.1	34.7	34.4	34.0	33.7
87.5°	49.8	49.5	49.2	48.9	48.6	48.3	48.0	47.6	47.2	46.8	46.3
85°	65.8	65.6	65.3	64.9	64.6	64.1	63.7	63.1	62.5	61.9	61.2
82.5°	84.3	84.1	83.9	83.5	83.1	82.5	81.9	81.2	80.3	79.3	78.3
80°	104.5	104.5	104.3	103.9	103.4	102.7	101.9	100.9	99.8	98.5	97.0
77.5°	126.7	126.8	126.7	126.3	125.7	124.9	123.9	122.7	121.3	119.7	117.9
75°	150.2	150.5	150.5	150.2	149.5	148.6	147.3	145.8	144.0	141.9	139.6
72.5°	174.9	175.5	175.7	175.5	174.7	173.5	172.0	170.1	167.8	165.3	162.6
70°	200.6	201.2	201.5	201.3	200.4	199.1	197.4	195.3	192.8	190.0	186.8
67.5°	226.7	227.5	227.8	227.7	226.8	225.4	223.5	221.2	218.5	215.2	211.3
65°	253.3	254.2	254.6	254.5	253.5	252.0	250.0	247.4	244.3	240.6	236.3
62.5°	280.8	282.0	282.5	282.5	281.4	279.6	277.3	274.3	270.7	266.6	261.8
60°	309.0	310.3	310.9	310.8	309.6	307.7	305.1	301.7	297.6	292.9	287.8
57.5°	336.8	338.2	338.9	338.8	337.7	335.9	333.3	329.9	325.7	320.8	315.0
55°	365.0	366.7	367.4	367.3	366.1	364.0	361.1	357.2	352.5	347.3	341.4
52.5°	393.3	395.1	395.9	395.8	394.6	392.4	389.2	385.1	379.9	374.0	367.5
50°	422.0	424.0	424.8	424.7	423.4	421.1	417.8	413.5	408.2	401.7	394.3
47.5°	450.0	452.1	453.1	453.0	451.7	449.5	446.1	441.3	435.2	428.1	420.4
45°	478.1	480.6	481.8	481.8	480.4	477.8	474.1	469.3	462.9	455.2	446.7
42.5°	505.3	508.1	509.6	509.8	508.0	504.9	500.6	495.5	489.4	481.5	472.6
40°	532.9	535.8	537.1	537.0	535.5	532.7	528.4	522.6	515.2	506.3	496.7
37.5°	558.9	561.9	563.4	563.3	561.5	558.0	553.2	547.7	541.0	532.4	521.7
35°	584.5	587.7	589.3	589.3	587.5	584.1	579.3	573.0	565.6	555.0	544.9
32.5°	609.9	613.1	614.6	614.3	612.5	608.9	603.8	597.0	588.5	578.6	567.8
30°	633.6	637.3	639.4	639.8	637.4	633.3	627.5	620.4	612.0	601.4	589.5
27.5°	656.1	660.0	661.4	661.2	659.2	655.4	649.7	642.5	632.7	622.1	610.5
25°	677.5	681.3	683.3	683.4	681.3	677.1	671.0	663.0	653.4	642.6	629.4
22.5°	697.6	700.8	702.6	702.7	700.5	696.5	690.5	682.5	672.7	660.6	647.7
20°	714.8	718.8	721.5	722.3	719.9	715.0	708.4	700.2	689.9	677.7	663.8
17.5°	731.7	735.2	737.6	737.9	735.5	730.9	724.4	716.7	705.7	693.4	678.3
15°	745.0	749.6	750.9	751.0	748.7	744.5	737.8	729.6	719.0	706.8	692.0
12.5°	757.4	761.7	764.1	764.5	761.8	757.5	750.8	741.5	730.6	717.3	703.1
10°	768.0	771.5	774.3	775.0	771.5	768.0	760.5	751.8	740.5	727.7	711.2
7.5°	776.3	781.0	783.0	783.1	779.6	776.0	769.1	759.7	748.6	734.6	718.0
5°	782.5	786.7	789.4	788.8	784.8	782.3	775.0	765.8	753.8	740.5	724.9
2.5°	786.0	790.3	792.2	791.2	789.6	784.4	777.7	768.8	758.0	743.8	728.2
0°	787.4	792.2	794.4	793.2	791.6	787.5	780.2	769.0	759.1	744.6	729.3
-2.5°	786.1	791.2	793.5	791.4	789.3	784.4	777.7	767.8	757.4	743.1	727.9
-5°	783.0	787.2	788.9	789.0	785.0	780.9	773.7	764.5	752.9	739.5	724.3
-7.5°	777.5	780.9	780.7	782.9	780.9	774.4	768.3	759.1	747.6	734.1	718.6
-10°	769.5	773.7	775.3	775.6	772.5	767.8	760.6	751.6	740.3	727.0	711.8
-12.5°	759.4	763.4	765.6	765.2	762.4	757.7	751.4	741.8	730.8	717.7	702.8
-15°	747.8	751.8	753.9	754.4	751.4	745.7	738.5	730.2	719.4	706.6	692.0
-17.5°	731.5	736.5	739.1	739.4	736.6	732.0	725.1	718.0	706.3	693.6	679.0
-20°	717.0	721.2	723.2	722.8	721.3	717.3	710.2	701.7	690.6	678.2	664.5

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	698.9	703.4	706.2	706.7	703.8	698.7	691.8	682.9	673.0	661.3	648.6
-25°	680.5	684.6	687.1	687.7	684.4	679.0	672.0	663.4	654.9	644.2	630.5
-27.5°	660.8	664.1	666.2	666.5	663.4	658.7	652.9	645.2	634.8	623.9	611.8
-30°	639.2	642.5	644.1	643.8	641.0	636.4	630.2	623.1	614.2	602.7	590.3
-32.5°	615.1	618.2	619.9	619.9	617.4	613.0	606.9	598.7	590.0	580.4	569.1
-35°	591.0	594.0	595.6	595.6	593.0	588.7	582.8	575.6	567.4	557.2	546.5
-37.5°	565.1	567.8	569.2	569.1	566.7	562.6	557.2	550.6	542.4	532.3	522.6
-40°	538.5	541.1	542.3	542.1	539.7	535.9	530.9	524.6	517.2	508.7	498.9
-42.5°	511.3	513.3	514.2	513.9	511.9	508.7	504.3	498.3	490.5	482.1	473.4
-45°	484.0	486.0	486.7	486.3	484.3	481.2	477.0	471.7	464.8	456.5	447.8
-47.5°	456.3	458.4	459.3	459.0	456.9	453.7	449.4	444.2	437.9	430.6	422.5
-50°	427.9	429.8	430.7	430.4	428.5	425.6	421.6	416.6	410.7	404.3	396.8
-52.5°	398.9	400.6	401.4	401.2	399.5	396.8	393.2	388.6	383.3	377.0	369.5
-55°	370.7	372.1	372.7	372.4	370.7	368.1	364.7	360.4	355.4	349.6	343.0
-57.5°	342.2	343.5	344.0	343.7	342.1	339.7	336.4	332.5	327.9	322.7	316.6
-60°	314.0	315.2	315.7	315.5	314.0	311.7	308.7	305.1	300.8	296.0	290.6
-62.5°	284.7	285.6	285.7	285.2	284.0	282.2	279.7	276.5	272.9	268.7	264.0
-65°	257.3	257.9	257.9	257.4	256.3	254.6	252.4	249.6	246.2	242.3	237.9
-67.5°	230.0	230.5	230.5	230.0	228.9	227.4	225.4	222.9	220.0	216.6	212.7
-70°	203.3	203.6	203.5	203.0	202.0	200.6	198.8	196.6	194.0	191.1	187.8
-72.5°	177.5	177.7	177.5	177.0	176.1	174.9	173.3	171.4	169.2	166.6	163.6
-75°	152.4	152.6	152.4	151.9	151.0	149.8	148.4	146.6	144.6	142.3	139.8
-77.5°	128.3	128.4	128.2	127.9	127.1	126.0	124.8	123.3	121.6	119.8	117.7
-80°	106.0	106.0	105.8	105.5	104.8	103.9	102.8	101.6	100.3	98.8	97.1
-82.5°	85.4	85.3	85.0	84.7	84.1	83.4	82.5	81.6	80.5	79.4	78.2
-85°	66.9	66.7	66.4	66.1	65.6	65.0	64.3	63.6	62.9	62.0	61.1
-87.5°	50.7	50.4	50.2	49.9	49.5	49.0	48.5	48.0	47.5	46.9	46.3
-90°	36.0	35.7	35.4	35.1	34.9	34.7	34.5	34.3	34.0	33.8	33.6

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	33.3	33.0	32.8	32.6	32.4	32.2	32.1	31.9	31.7	31.5	31.3
87.5°	45.8	45.3	44.8	44.3	43.7	43.1	42.5	41.9	41.3	40.6	40.0
85°	60.4	59.6	58.7	57.8	56.8	55.8	54.7	53.6	52.5	51.3	50.1
82.5°	77.1	75.8	74.5	73.1	71.6	70.0	68.3	66.6	64.9	63.1	61.3
80°	95.4	93.7	91.8	89.9	87.9	85.7	83.5	81.1	78.6	76.1	73.5
77.5°	115.9	113.6	111.1	108.5	105.7	102.8	99.8	96.6	93.4	90.1	86.7
75°	137.1	134.3	131.3	128.0	124.6	121.1	117.4	113.5	109.3	105.0	100.8
72.5°	159.6	156.4	152.8	148.9	144.7	140.3	135.8	130.9	125.9	120.8	115.9
70°	183.2	179.2	175.1	170.5	165.7	160.6	155.3	149.5	143.5	137.4	131.4
67.5°	207.0	202.4	197.6	192.6	187.1	181.3	175.3	168.8	162.0	155.0	147.7
65°	231.6	226.4	221.2	215.6	209.0	202.0	195.3	188.0	180.3	172.7	164.7
62.5°	256.5	251.1	245.1	238.3	231.1	223.5	216.0	207.4	198.7	190.4	181.2
60°	282.2	275.8	268.9	261.7	254.0	245.7	236.6	227.2	217.8	207.9	197.8
57.5°	308.3	301.0	293.2	285.2	276.5	267.3	257.9	247.8	236.8	225.8	214.9
55°	334.7	327.2	318.5	309.2	299.4	289.4	278.5	267.5	256.4	244.4	231.6
52.5°	360.0	351.6	342.6	333.0	322.8	311.1	299.5	287.8	274.8	262.2	249.0
50°	385.9	376.7	366.8	356.3	345.0	332.8	320.7	307.0	293.9	279.8	265.5
47.5°	411.7	402.0	391.3	379.4	367.2	354.5	340.9	326.9	312.2	297.1	282.0
45°	436.9	426.2	414.6	402.7	389.7	375.3	361.0	346.4	330.5	314.8	297.8
42.5°	462.6	450.5	438.2	425.2	410.7	396.5	380.7	364.9	348.8	331.4	314.3
40°	486.8	474.4	461.7	446.9	432.2	416.0	400.3	383.5	366.0	348.3	329.6
37.5°	509.8	496.9	484.1	468.7	452.6	435.8	419.0	401.3	383.0	364.0	344.8
35°	533.4	519.3	505.0	489.4	472.8	455.2	437.0	418.4	399.1	379.4	359.0
32.5°	554.3	541.2	525.7	509.0	491.6	473.7	454.5	434.9	414.6	393.8	372.8
30°	575.9	561.4	544.5	528.3	509.7	490.9	471.0	450.3	429.3	407.8	385.4
27.5°	596.4	580.5	563.9	545.5	527.5	506.9	486.7	465.0	442.9	420.1	397.5
25°	615.1	598.9	581.7	563.3	543.5	522.8	499.9	478.7	456.0	432.9	409.4
22.5°	632.6	615.8	598.0	578.8	558.6	537.9	515.0	491.3	467.3	443.4	418.7
20°	649.0	631.7	613.1	593.4	572.5	550.4	527.3	501.3	478.1	453.8	428.9
17.5°	662.7	646.3	626.4	606.4	584.7	562.3	539.1	514.2	488.6	462.8	437.6
15°	675.9	656.9	638.7	616.8	595.1	572.4	548.6	522.9	495.9	470.9	444.6
12.5°	685.9	668.4	649.4	626.9	604.7	581.0	556.6	531.3	504.0	477.9	450.9
10°	694.8	677.1	655.8	635.5	612.2	588.8	563.8	537.9	511.6	483.9	456.1
7.5°	702.0	683.1	663.5	642.4	618.3	594.2	568.9	542.9	516.2	488.6	460.4
5°	707.3	687.6	669.0	646.8	622.9	598.2	572.4	546.4	519.5	491.6	463.6
2.5°	710.4	690.5	672.0	649.0	625.6	600.5	574.5	548.4	521.4	493.4	465.5
0°	711.8	691.2	672.8	649.7	626.4	601.2	575.0	549.0	522.0	494.0	466.2
-2.5°	710.7	690.4	671.5	648.6	625.3	600.3	574.3	548.2	521.3	493.4	465.5
-5°	707.4	687.6	668.3	645.6	622.5	597.8	571.9	545.9	519.2	491.5	463.5
-7.5°	701.7	682.8	663.2	640.8	618.0	593.7	568.0	542.0	515.7	488.3	460.2
-10°	694.6	675.6	655.8	634.1	611.5	587.9	562.6	536.7	510.8	483.7	455.8
-12.5°	686.0	667.5	647.3	625.6	603.4	580.0	555.6	530.1	504.3	477.8	450.5
-15°	675.3	657.4	637.6	616.5	594.3	570.7	547.0	522.2	496.7	470.8	444.2
-17.5°	663.1	645.5	626.0	605.6	583.8	560.9	537.2	512.8	488.0	462.5	436.7
-20°	649.2	631.7	612.9	593.1	571.7	549.7	526.4	502.4	477.9	453.2	427.9

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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	633.2	616.2	598.5	579.1	558.5	537.0	514.4	491.2	467.3	442.8	418.1
-25°	615.9	599.9	582.5	563.6	543.9	523.0	501.3	478.7	455.6	431.7	407.8
-27.5°	597.1	582.0	564.8	547.1	527.9	507.8	486.8	465.2	442.8	419.8	396.6
-30°	577.2	562.6	546.5	529.2	510.8	491.5	471.5	450.6	429.0	407.2	384.8
-32.5°	556.3	542.2	526.6	510.3	492.7	474.4	455.1	435.0	414.6	393.6	372.0
-35°	534.0	520.6	506.4	490.4	473.8	456.2	437.8	418.9	399.2	379.1	358.6
-37.5°	511.5	498.8	484.3	469.8	453.9	437.2	419.9	401.8	383.3	364.1	344.5
-40°	486.9	475.4	462.6	448.3	433.4	417.8	401.3	384.3	366.6	348.4	329.6
-42.5°	463.4	451.7	439.6	426.5	412.5	397.7	382.2	366.1	349.3	332.0	314.6
-45°	438.4	427.9	416.6	404.1	391.1	377.1	362.4	347.3	331.4	315.5	298.5
-47.5°	413.4	403.7	393.1	381.3	368.9	355.8	342.2	328.0	313.6	297.8	281.8
-50°	388.0	378.7	368.6	357.7	346.4	334.3	321.8	308.6	294.0	279.6	265.2
-52.5°	361.4	353.2	344.1	334.2	323.7	312.8	300.5	287.3	274.7	261.8	248.7
-55°	335.6	327.8	319.7	310.7	300.7	289.9	278.9	267.4	255.8	244.0	231.6
-57.5°	310.0	302.9	295.1	286.7	277.5	267.8	258.0	247.6	236.7	225.9	214.9
-60°	284.7	277.7	270.3	262.8	254.7	246.1	236.9	227.5	217.9	208.0	197.9
-62.5°	258.6	252.7	246.2	239.2	231.9	224.2	216.3	207.8	199.0	190.1	181.0
-65°	232.9	227.6	222.2	216.3	209.8	202.8	195.5	188.1	180.4	172.3	164.3
-67.5°	208.3	203.6	198.5	193.2	187.7	181.7	175.3	168.7	161.9	154.9	147.7
-70°	184.1	180.0	175.5	171.0	166.2	160.9	155.4	149.7	143.8	137.8	131.6
-72.5°	160.3	156.7	153.0	149.0	144.7	140.4	135.9	131.1	126.2	121.1	115.9
-75°	137.0	134.1	131.2	128.0	124.6	121.0	117.3	113.4	109.4	105.1	100.9
-77.5°	115.5	113.1	110.7	108.1	105.5	102.6	99.7	96.6	93.4	90.1	86.8
-80°	95.3	93.5	91.6	89.7	87.7	85.5	83.2	80.8	78.5	76.0	73.4
-82.5°	76.8	75.4	74.1	72.8	71.3	69.7	68.1	66.5	64.8	63.0	61.2
-85°	60.2	59.2	58.4	57.5	56.5	55.5	54.5	53.4	52.3	51.2	50.0
-87.5°	45.7	45.1	44.6	44.1	43.5	43.0	42.4	41.8	41.2	40.6	40.0
-90°	33.4	33.2	33.0	32.8	32.5	32.3	32.1	31.9	31.6	31.4	31.2

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	31.1	31.0	30.8	30.6	30.5	30.3	30.1	30.0	29.8	29.8	29.9
87.5°	39.5	39.0	38.5	38.0	37.4	36.9	36.3	35.7	35.1	34.6	34.0
85°	49.0	47.9	46.7	45.7	44.6	43.5	42.3	41.2	40.0	38.9	37.8
82.5°	59.6	57.9	56.2	54.4	52.5	50.7	48.8	47.0	45.2	43.4	41.7
80°	71.1	68.6	66.0	63.5	61.0	58.4	55.9	53.3	50.8	48.2	45.7
77.5°	83.5	80.2	76.9	73.4	70.0	66.6	63.2	59.9	56.5	53.3	50.1
75°	96.7	92.5	88.3	84.0	79.7	75.3	71.0	66.8	62.6	58.5	54.6
72.5°	110.8	105.5	100.3	95.0	89.7	84.5	79.2	74.0	68.9	63.9	59.1
70°	125.2	119.1	113.0	106.6	100.2	93.9	87.7	81.6	75.5	69.6	63.8
67.5°	140.4	133.2	125.8	118.5	111.2	103.7	96.3	89.3	82.3	75.4	68.7
65°	156.3	147.8	139.2	130.7	122.2	113.9	105.4	97.1	89.1	81.3	73.7
62.5°	172.2	162.7	153.1	143.3	133.7	124.0	114.6	105.2	96.0	87.3	78.7
60°	187.9	177.4	166.9	156.1	145.3	134.5	123.8	113.4	103.1	93.2	83.8
57.5°	203.4	192.1	180.4	168.8	156.9	145.0	133.2	121.6	110.4	99.3	88.8
55°	219.4	206.7	194.0	181.2	168.4	155.4	142.6	129.8	117.5	105.5	93.8
52.5°	235.1	221.4	207.5	193.6	179.6	165.7	151.8	138.1	124.6	111.5	98.9
50°	251.0	235.9	221.0	205.8	190.8	175.8	160.9	146.2	131.6	117.5	103.9
47.5°	266.2	250.4	234.0	218.1	201.8	185.7	169.9	154.1	138.6	123.4	108.8
45°	281.4	264.4	247.1	229.7	212.6	195.5	178.7	162.0	145.3	129.1	113.6
42.5°	295.7	277.9	259.8	241.2	223.1	205.0	187.2	169.7	151.9	134.8	118.3
40°	310.7	291.1	271.9	252.5	233.1	214.3	195.7	177.0	158.4	140.3	122.8
37.5°	325.1	304.1	283.7	263.4	243.1	223.3	203.6	184.1	164.8	145.5	127.2
35°	338.2	317.5	294.5	273.7	252.8	231.7	211.1	190.9	170.8	150.5	131.4
32.5°	350.9	328.9	306.3	283.9	261.9	239.9	218.5	197.4	176.4	155.4	135.4
30°	363.1	340.1	317.5	292.9	270.5	247.9	225.3	203.4	181.7	160.1	139.1
27.5°	374.7	350.7	327.0	302.3	278.7	255.2	231.8	208.8	186.6	164.6	142.6
25°	384.7	360.6	335.9	311.2	286.3	261.8	237.8	214.2	191.3	168.7	145.8
22.5°	394.5	369.8	344.4	319.3	292.7	268.0	243.4	219.0	195.6	172.4	148.8
20°	403.7	378.1	352.0	325.9	299.0	273.7	248.6	223.4	199.5	175.6	151.6
17.5°	411.4	385.2	358.7	331.9	305.0	279.0	253.2	227.4	202.8	178.6	154.1
15°	417.7	391.7	364.4	337.4	310.2	283.6	256.9	230.9	205.6	181.1	156.2
12.5°	423.8	397.3	369.6	342.1	314.5	287.3	260.1	233.8	208.0	183.3	158.1
10°	429.3	401.7	373.7	345.9	318.1	290.1	262.7	236.3	210.1	185.0	159.7
7.5°	433.4	404.9	377.0	348.9	320.7	292.3	264.9	238.2	211.7	186.4	161.0
5°	435.9	407.0	379.4	351.1	322.5	293.9	266.4	239.6	212.9	187.4	161.9
2.5°	437.3	408.2	380.8	352.4	323.6	294.8	267.4	240.4	213.5	188.0	162.4
0°	437.8	408.4	381.2	352.8	323.9	295.1	267.7	240.7	213.8	188.2	162.6
-2.5°	437.2	408.0	380.7	352.3	323.5	294.8	267.4	240.4	213.5	188.0	162.4
-5°	435.6	406.7	379.1	350.9	322.3	293.9	266.4	239.6	212.8	187.4	161.8
-7.5°	433.0	404.5	376.6	348.7	320.3	292.4	264.9	238.2	211.7	186.4	160.9
-10°	428.8	401.2	373.1	345.5	317.6	290.2	262.6	236.3	210.0	185.0	159.6
-12.5°	423.4	396.8	368.9	341.6	314.1	287.3	260.0	233.9	208.0	183.2	157.9
-15°	417.2	391.2	363.7	336.9	309.8	283.7	256.9	230.9	205.5	181.0	156.0
-17.5°	410.4	384.6	357.9	331.3	304.8	279.0	253.2	227.4	202.7	178.4	153.8
-20°	402.6	376.8	351.2	325.1	299.2	273.7	248.7	223.3	199.3	175.4	151.2

REPORT NUMBER: P1209895 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-LO-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	393.7	368.5	343.5	318.2	293.0	268.0	243.5	218.9	195.5	172.1	148.4
-25°	383.8	359.5	335.0	310.5	286.4	261.7	237.9	214.0	191.1	168.4	145.3
-27.5°	373.0	349.5	325.8	302.2	278.7	255.2	231.8	208.8	186.4	164.2	142.0
-30°	362.0	339.0	316.1	293.3	270.5	248.0	225.2	203.2	181.4	159.7	138.5
-32.5°	350.1	327.9	305.8	284.0	261.8	240.1	218.3	197.2	176.1	154.8	134.7
-35°	337.6	316.4	295.1	273.8	252.9	231.8	211.0	190.6	170.4	149.8	130.7
-37.5°	324.4	304.3	283.8	263.3	243.2	223.1	203.4	183.7	164.3	144.6	126.5
-40°	310.9	291.3	271.9	252.6	233.1	214.1	195.3	176.6	157.8	139.3	122.0
-42.5°	296.3	277.9	259.6	241.3	222.9	204.8	186.9	169.1	151.0	133.9	117.5
-45°	281.2	264.1	247.1	229.6	212.4	195.1	178.2	161.3	144.1	128.2	112.8
-47.5°	266.0	250.2	234.0	217.8	201.6	185.2	169.2	153.1	137.4	122.4	108.0
-50°	250.8	235.8	220.8	205.7	190.5	175.2	160.1	144.7	130.4	116.5	103.0
-52.5°	235.0	221.3	207.4	193.3	179.1	164.9	150.3	136.7	123.3	110.5	98.0
-55°	219.3	206.7	193.8	180.8	167.7	154.3	141.0	128.4	116.2	104.4	92.9
-57.5°	203.5	191.9	180.1	168.1	156.0	143.6	131.7	120.1	109.1	98.3	87.9
-60°	187.6	177.0	166.3	155.3	144.1	133.3	122.5	112.0	101.9	92.2	82.8
-62.5°	171.7	162.2	152.3	142.5	132.7	122.9	113.3	103.8	94.8	86.1	77.7
-65°	155.9	147.3	138.8	130.0	121.3	112.8	104.2	95.8	87.8	80.1	72.7
-67.5°	140.4	133.0	125.4	117.8	110.3	102.7	95.2	87.9	80.9	74.2	67.7
-70°	125.2	118.9	112.4	105.9	99.4	92.9	86.5	80.2	74.2	68.4	62.8
-72.5°	110.7	105.2	99.8	94.3	88.9	83.5	78.0	72.7	67.6	62.8	58.2
-75°	96.6	92.2	87.8	83.3	78.8	74.3	69.9	65.5	61.3	57.4	53.6
-77.5°	83.3	79.8	76.3	72.7	69.2	65.7	62.2	58.7	55.3	52.2	49.2
-80°	70.9	68.3	65.6	62.9	60.2	57.4	54.8	52.1	49.5	47.2	44.9
-82.5°	59.3	57.5	55.6	53.7	51.7	49.8	47.9	46.0	44.1	42.5	40.9
-85°	48.9	47.7	46.4	45.2	44.0	42.7	41.5	40.2	39.0	38.0	37.0
-87.5°	39.4	38.8	38.2	37.5	36.9	36.2	35.5	34.9	34.2	33.8	33.3
-90°	31.1	31.1	31.0	30.9	30.9	30.8	30.7	30.7	30.6	30.6	30.5

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	29.9	30.0	30.0	30.1	30.1	30.2	30.2
87.5°	33.5	32.9	32.4	31.8	31.3	30.7	30.2
85°	36.6	35.5	34.4	33.4	32.3	31.2	30.2
82.5°	40.0	38.3	36.6	34.9	33.3	31.7	30.2
80°	43.4	41.1	38.8	36.5	34.3	32.2	30.2
77.5°	46.9	43.9	41.0	38.1	35.3	32.7	30.2
75°	50.7	46.8	43.2	39.8	36.4	33.2	30.2
72.5°	54.5	49.9	45.5	41.4	37.5	33.7	30.2
70°	58.3	53.0	47.9	43.1	38.5	34.2	30.2
67.5°	62.3	56.2	50.3	44.7	39.6	34.7	30.2
65°	66.3	59.3	52.7	46.4	40.6	35.1	30.2
62.5°	70.4	62.5	55.1	48.1	41.6	35.6	30.2
60°	74.6	65.7	57.5	49.8	42.7	36.1	30.2
57.5°	78.6	69.0	59.9	51.5	43.7	36.6	30.2
55°	82.8	72.2	62.2	53.1	44.6	37.1	30.2
52.5°	86.8	75.4	64.5	54.8	45.6	37.5	30.2
50°	90.9	78.5	67.0	56.3	46.6	37.9	30.2
47.5°	94.8	81.7	69.3	57.9	47.5	38.4	30.2
45°	98.7	84.7	71.5	59.4	48.5	38.8	30.2
42.5°	102.5	87.6	73.7	60.8	49.4	39.1	30.2
40°	106.2	90.5	75.8	62.2	50.2	39.5	30.2
37.5°	109.7	93.2	77.8	63.5	51.0	39.9	30.2
35°	113.1	95.8	79.7	64.9	51.8	40.2	30.2
32.5°	116.3	98.3	81.6	66.2	52.5	40.5	30.2
30°	119.3	100.7	83.3	67.4	53.2	40.8	30.2
27.5°	122.2	102.9	84.9	68.5	53.9	41.1	30.2
25°	124.8	104.9	86.4	69.5	54.5	41.3	30.2
22.5°	127.2	106.8	87.8	70.5	55.0	41.6	30.2
20°	129.4	108.5	89.1	71.3	55.5	41.8	30.2
17.5°	131.3	110.0	90.2	72.1	55.9	42.0	30.2
15°	133.0	111.3	91.1	72.7	56.3	42.1	30.2
12.5°	134.5	112.5	92.0	73.3	56.6	42.3	30.2
10°	135.6	113.4	92.6	73.7	56.9	42.4	30.2
7.5°	136.5	114.1	93.2	74.1	57.1	42.4	30.2
5°	137.2	114.6	93.5	74.3	57.2	42.5	30.2
2.5°	137.5	114.9	93.7	74.5	57.3	42.5	30.2
0°	137.6	115.0	93.8	74.5	57.3	42.6	30.2
-2.5°	137.5	114.8	93.7	74.4	57.3	42.5	30.2
-5°	137.1	114.5	93.5	74.3	57.2	42.5	30.2
-7.5°	136.4	114.0	93.1	74.0	57.0	42.4	30.2
-10°	135.4	113.2	92.5	73.6	56.8	42.3	30.2
-12.5°	134.2	112.3	91.8	73.2	56.5	42.2	30.2
-15°	132.8	111.1	91.0	72.6	56.2	42.1	30.2
-17.5°	131.0	109.8	90.0	71.9	55.8	41.9	30.2
-20°	129.0	108.2	88.9	71.2	55.4	41.7	30.2

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	126.8	106.5	87.6	70.3	54.9	41.5	30.2
-25°	124.4	104.6	86.1	69.3	54.3	41.3	30.2
-27.5°	121.7	102.5	84.6	68.3	53.7	41.0	30.2
-30°	118.8	100.3	83.0	67.2	53.1	40.7	30.2
-32.5°	115.8	97.9	81.2	65.9	52.4	40.4	30.2
-35°	112.5	95.4	79.4	64.6	51.6	40.1	30.2
-37.5°	109.1	92.7	77.4	63.3	50.8	39.8	30.2
-40°	105.6	90.0	75.4	62.0	50.0	39.4	30.2
-42.5°	101.8	87.1	73.3	60.6	49.2	39.1	30.2
-45°	98.1	84.1	71.1	59.1	48.3	38.7	30.2
-47.5°	94.1	81.1	68.8	57.6	47.3	38.3	30.2
-50°	90.2	77.9	66.5	56.0	46.4	37.9	30.2
-52.5°	86.1	74.8	64.1	54.4	45.4	37.4	30.2
-55°	82.0	71.6	61.8	52.8	44.4	37.0	30.2
-57.5°	77.8	68.3	59.4	51.1	43.4	36.5	30.2
-60°	73.7	65.1	57.0	49.4	42.5	36.0	30.2
-62.5°	69.6	61.8	54.6	47.8	41.4	35.5	30.2
-65°	65.5	58.7	52.2	46.0	40.4	35.0	30.2
-67.5°	61.5	55.5	49.8	44.3	39.3	34.6	30.2
-70°	57.5	52.4	47.4	42.7	38.3	34.1	30.2
-72.5°	53.7	49.3	45.0	41.1	37.3	33.6	30.2
-75°	49.8	46.2	42.8	39.4	36.2	33.1	30.2
-77.5°	46.2	43.3	40.5	37.8	35.1	32.6	30.2
-80°	42.7	40.5	38.3	36.2	34.1	32.2	30.2
-82.5°	39.2	37.7	36.1	34.6	33.1	31.7	30.2
-85°	36.0	35.0	34.0	33.1	32.1	31.2	30.2
-87.5°	32.9	32.5	32.0	31.6	31.1	30.7	30.2
-90°	30.5	30.4	30.4	30.3	30.3	30.2	30.2

(END OF REPORT)