

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: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: BKHDR150CLD2D-MID-4000K

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1209900 (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-4000K
Description: BULK HEAD 2800LM SEL 5CCT UNV D2D BRONZE at 4000K CCT

Light Source:
Ballast/Driver: ELECTRONIC DRIVER

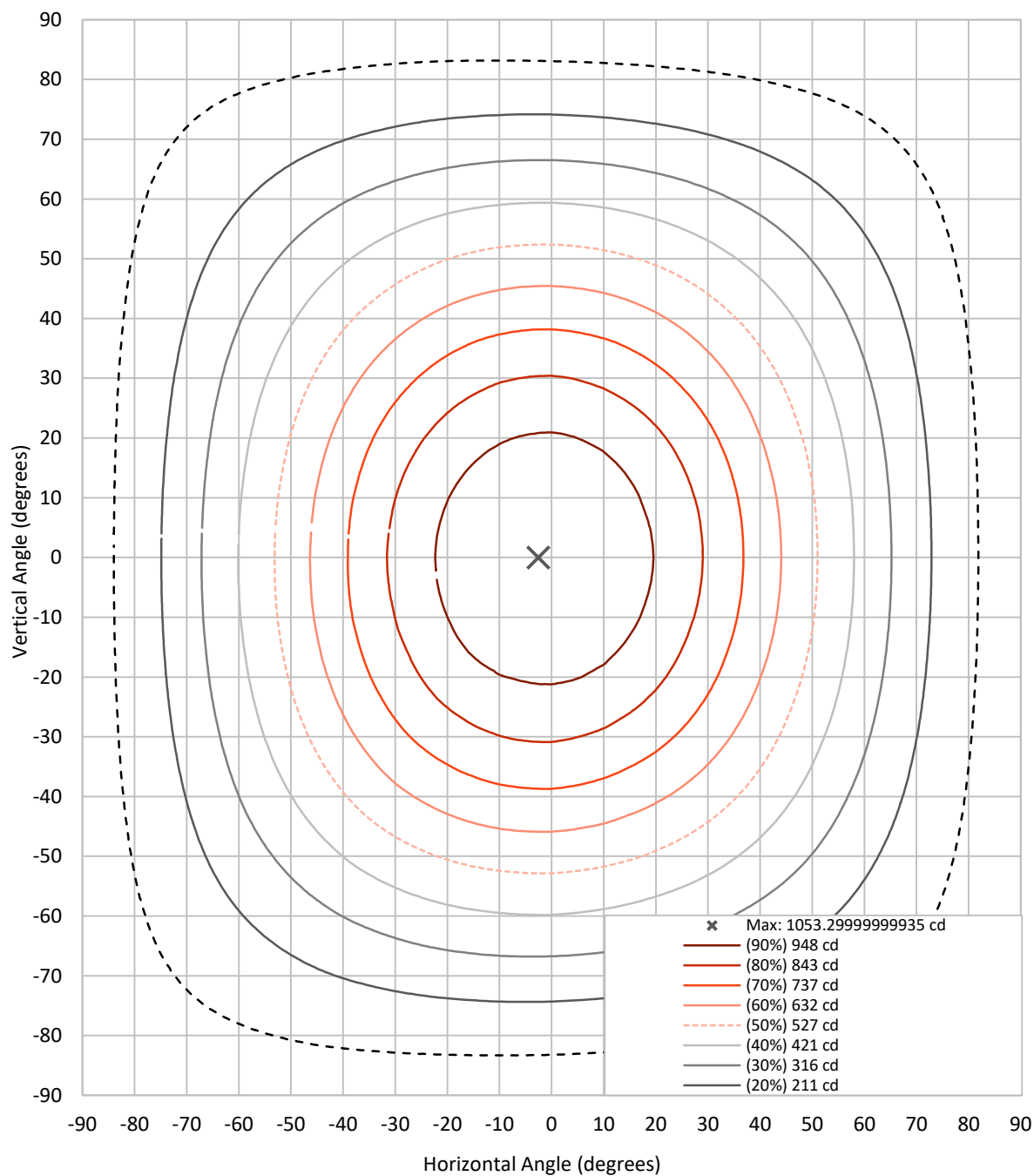
Summary

Lumens per Lamp:	2087.9 (1 lamp)	NEMA Type:	7H x 7V
Luminaire Lumens:	2853.3 lumens	Max Intensity:	1053.3 candela
Efficiency:	136.7%	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	124.1 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:	1886.5 lumens	Field Lumens:	2795.7 lumens
Beam Efficiency:	66.1%	Field Efficiency:	98.0%
Input Watts (W):	23		
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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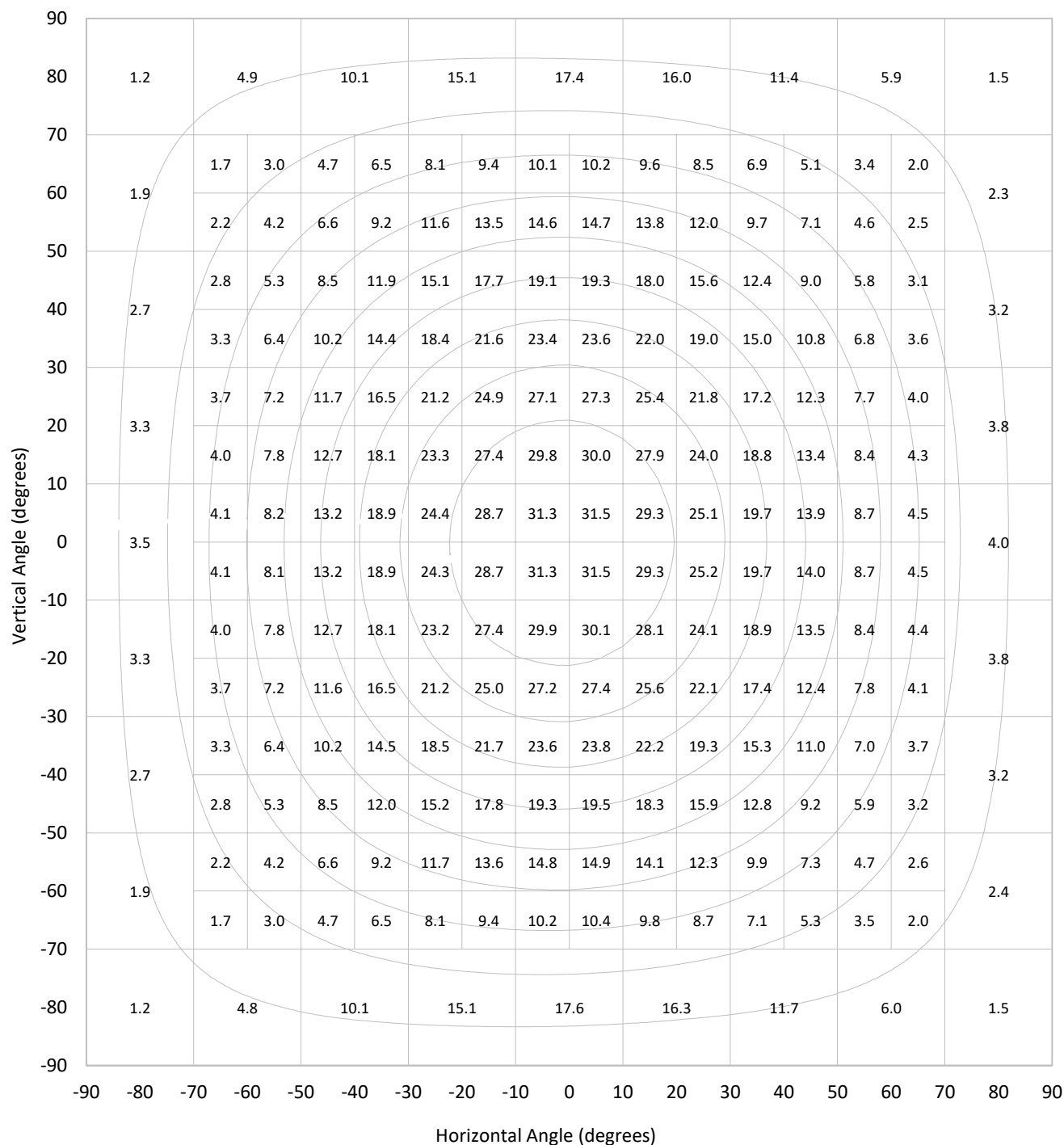
CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

Iso-Candela Plot



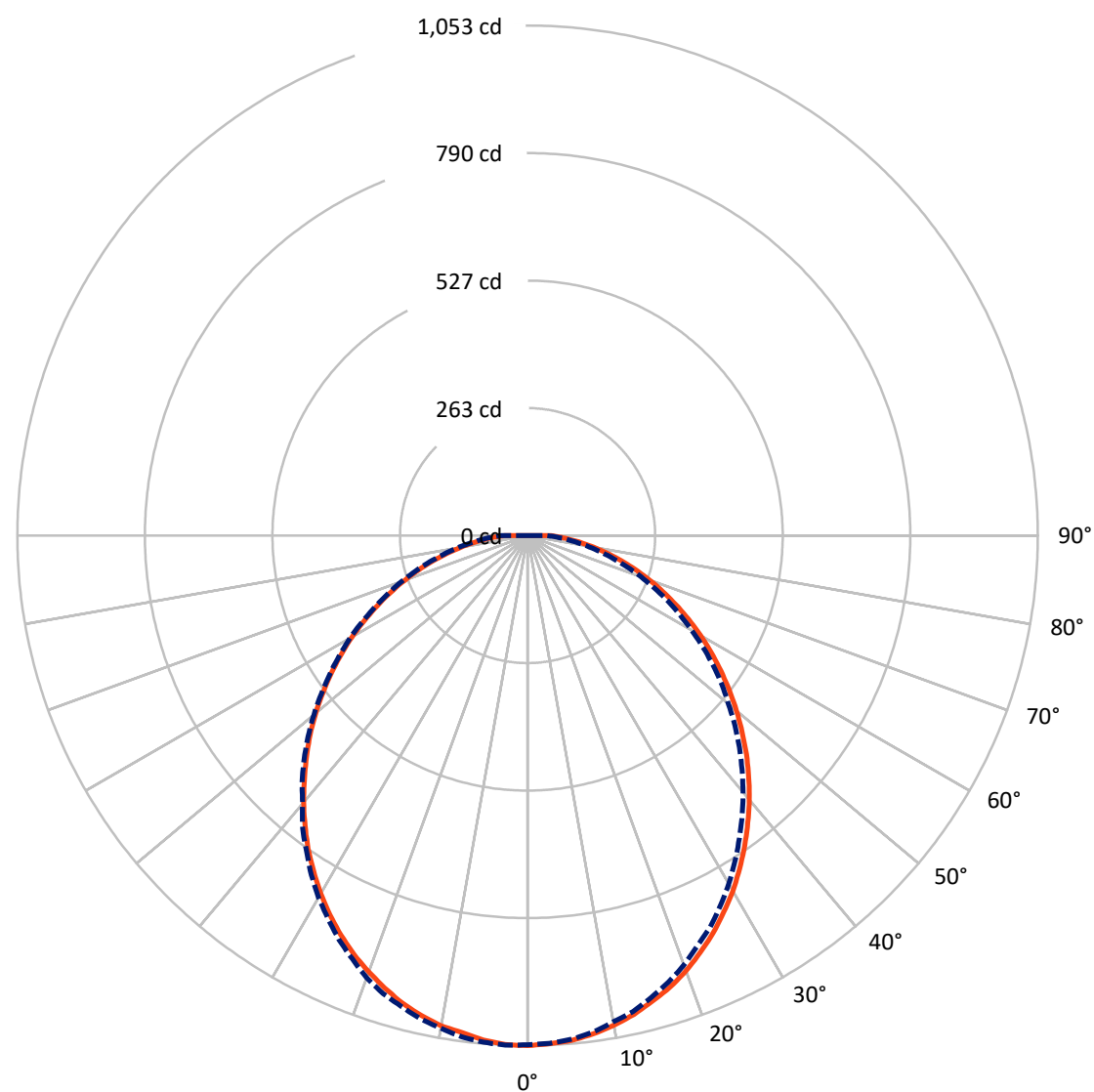
REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table



REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)
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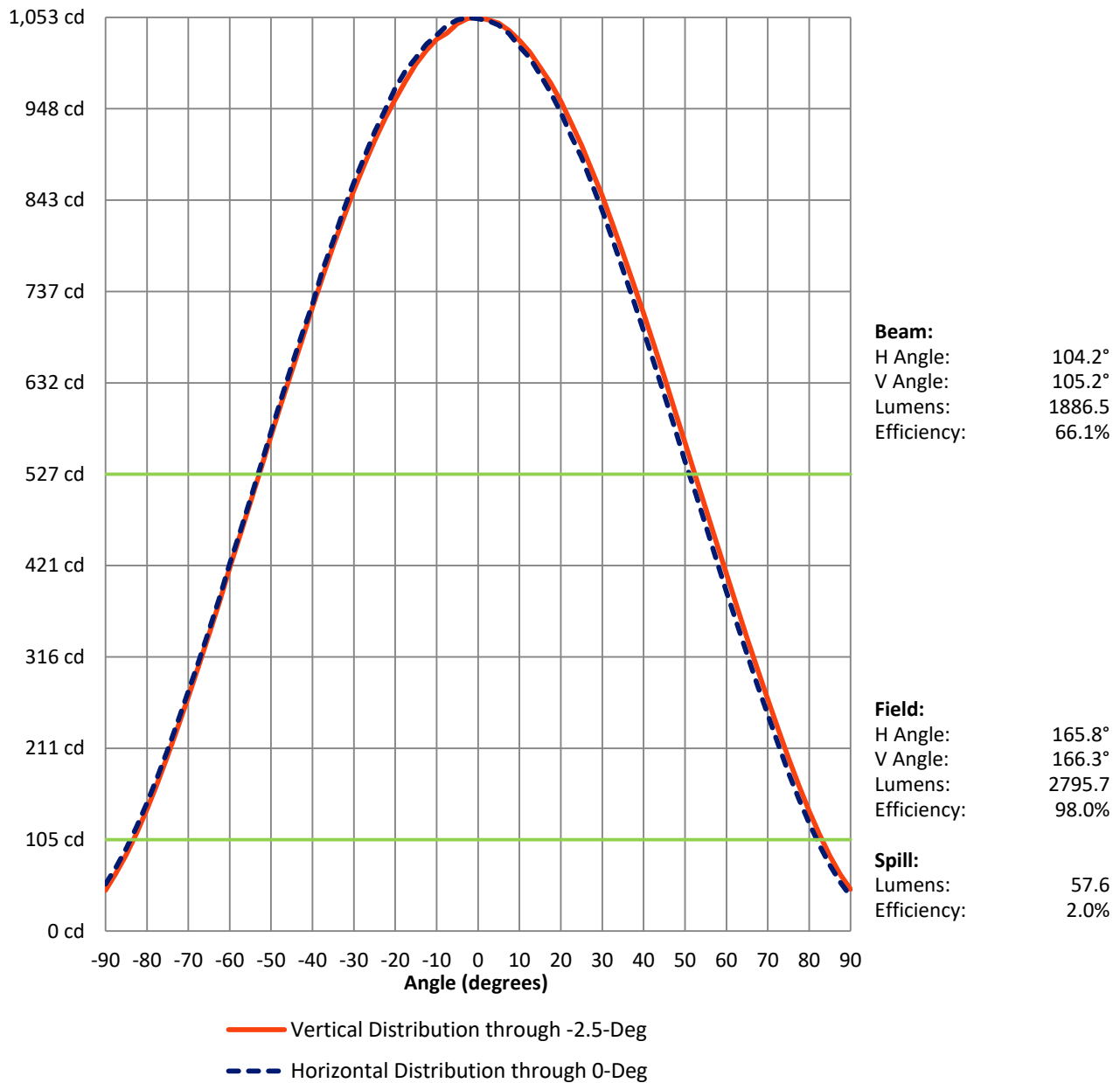
Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Plot



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CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	54.2	54.2	54.3	54.3	54.3	54.4	54.4	54.4	54.5	54.5	54.5
87.5°	54.2	55.0	55.8	56.6	57.3	58.1	58.9	59.6	60.4	61.1	61.6
85°	54.2	55.8	57.4	58.9	60.5	62.1	63.7	65.3	66.9	68.4	69.8
82.5°	54.2	56.6	58.9	61.3	63.8	66.2	68.6	71.2	73.7	76.2	78.5
80°	54.2	57.4	60.5	63.8	67.1	70.4	73.8	77.2	80.8	84.3	87.6
77.5°	54.2	58.1	62.1	66.2	70.4	74.7	79.1	83.6	88.2	92.8	97.3
75°	54.2	58.9	63.7	68.7	73.8	79.1	84.6	90.2	95.9	101.7	107.3
72.5°	54.2	59.7	65.3	71.2	77.2	83.6	90.2	96.9	103.8	110.7	117.6
70°	54.2	60.4	66.9	73.7	80.8	88.2	95.9	103.8	111.9	120.0	128.3
67.5°	54.2	61.2	68.5	76.2	84.3	92.8	101.7	110.8	120.1	129.6	139.3
65°	54.2	61.9	70.1	78.7	87.9	97.5	107.6	117.8	128.5	139.4	150.5
62.5°	54.2	62.7	71.7	81.2	91.4	102.3	113.4	124.9	137.0	149.3	161.7
60°	54.2	63.4	73.2	83.7	94.9	107.0	119.3	132.2	145.5	159.1	173.0
57.5°	54.2	64.1	74.7	86.2	98.6	111.6	125.1	139.4	154.1	169.1	184.4
55°	54.2	64.8	76.2	88.7	102.1	116.2	131.0	146.5	162.6	179.0	195.6
52.5°	54.2	65.5	77.7	91.1	105.6	120.7	136.8	153.7	171.0	188.8	206.9
50°	54.2	66.2	79.1	93.4	109.0	125.1	142.6	160.7	179.3	198.4	217.9
47.5°	54.2	66.8	80.6	95.7	112.2	129.6	148.2	167.5	187.5	208.0	228.8
45°	54.2	67.4	81.9	98.0	115.4	134.0	153.7	174.2	195.4	217.2	239.4
42.5°	54.2	68.0	83.2	100.2	118.6	138.2	159.0	180.7	203.2	226.3	249.6
40°	54.2	68.5	84.5	102.4	121.5	142.3	164.2	187.0	210.7	235.1	259.7
37.5°	54.2	69.1	85.7	104.4	124.4	146.1	169.1	193.1	217.9	243.4	269.4
35°	54.2	69.6	86.8	106.3	127.2	149.9	173.9	198.9	224.9	251.4	278.7
32.5°	54.2	70.1	88.0	108.1	129.9	153.5	178.4	204.4	231.6	259.1	287.5
30°	54.2	70.5	89.0	109.8	132.4	156.8	182.6	209.7	237.8	266.4	295.6
27.5°	54.2	71.0	89.9	111.4	134.7	160.0	186.6	214.5	243.5	273.3	303.2
25°	54.2	71.3	90.8	112.9	136.8	162.9	190.2	219.0	248.8	279.6	310.5
22.5°	54.2	71.7	91.6	114.2	138.8	165.5	193.6	223.2	253.9	285.4	317.1
20°	54.2	72.0	92.3	115.4	140.6	167.9	196.6	227.1	258.4	290.6	323.0
17.5°	54.2	72.3	93.0	116.5	142.2	170.0	199.4	230.5	262.4	295.1	328.2
15°	54.2	72.6	93.5	117.5	143.6	171.9	201.8	233.6	266.0	299.1	332.9
12.5°	54.2	72.8	94.0	118.3	144.8	173.5	203.9	236.1	269.1	302.5	337.0
10°	54.2	72.9	94.4	118.9	145.8	174.8	205.6	238.2	271.6	305.4	340.5
7.5°	54.2	73.1	94.7	119.5	146.5	175.9	206.9	239.8	273.6	307.7	343.2
5°	54.2	73.2	94.9	119.8	147.1	176.6	207.9	241.0	275.1	309.4	345.1
2.5°	54.2	73.2	95.1	120.1	147.4	177.1	208.5	241.7	276.0	310.4	346.3
0°	54.2	73.2	95.1	120.1	147.4	177.2	208.7	242.0	276.3	310.7	346.8
-2.5°	54.2	73.2	95.1	120.1	147.4	177.2	208.6	241.9	276.2	310.7	346.8
-5°	54.2	73.2	94.9	119.9	147.1	176.8	208.2	241.3	275.5	309.9	345.9
-7.5°	54.2	73.1	94.7	119.5	146.6	176.1	207.3	240.3	274.3	308.5	344.3
-10°	54.2	72.9	94.4	119.0	145.9	175.1	206.1	238.8	272.6	306.5	342.0
-12.5°	54.2	72.8	94.1	118.4	145.0	173.8	204.5	236.9	270.3	303.8	338.8
-15°	54.2	72.6	93.6	117.6	143.8	172.2	202.5	234.5	267.5	300.7	334.9
-17.5°	54.2	72.3	93.1	116.6	142.5	170.4	200.2	231.6	264.2	297.0	330.5
-20°	54.2	72.0	92.4	115.6	140.9	168.3	197.5	228.3	260.3	292.6	325.6

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	54.2	71.7	91.7	114.4	139.1	166.0	194.5	224.5	255.9	287.7	320.0
-25°	54.2	71.4	90.9	113.0	137.2	163.4	191.2	220.5	250.9	282.3	313.5
-27.5°	54.2	71.0	90.0	111.6	135.0	160.5	187.6	216.1	245.6	276.2	306.3
-30°	54.2	70.6	89.1	110.0	132.7	157.4	183.6	211.3	239.9	269.7	299.0
-32.5°	54.2	70.1	88.1	108.3	130.3	154.0	179.4	206.2	233.7	262.6	291.1
-35°	54.2	69.6	86.9	106.5	127.6	150.5	174.9	200.6	227.2	254.7	282.7
-37.5°	54.2	69.1	85.8	104.6	124.8	146.8	170.1	194.8	220.3	246.6	273.8
-40°	54.2	68.6	84.6	102.6	122.0	142.9	165.2	188.7	213.2	238.0	264.3
-42.5°	54.2	68.0	83.4	100.5	119.0	138.9	159.9	182.3	205.7	229.3	253.9
-45°	54.2	67.4	82.0	98.2	115.8	134.7	154.6	175.7	197.8	220.3	243.2
-47.5°	54.2	66.8	80.7	95.9	112.6	130.4	149.1	168.9	189.6	211.1	232.5
-50°	54.2	66.2	79.2	93.6	109.3	125.9	143.5	161.9	181.3	201.5	221.7
-52.5°	54.2	65.5	77.8	91.3	105.9	121.4	137.7	154.9	172.8	191.5	210.7
-55°	54.2	64.9	76.3	88.9	102.5	116.8	132.0	147.8	164.1	181.3	199.1
-57.5°	54.2	64.2	74.8	86.4	98.9	112.1	126.0	140.6	155.5	171.2	187.2
-60°	54.2	63.4	73.3	83.9	95.3	107.5	120.1	133.3	147.0	160.8	175.6
-62.5°	54.2	62.7	71.7	81.5	91.8	102.8	114.1	126.1	138.3	151.0	163.8
-65°	54.2	62.0	70.1	78.9	88.2	98.0	108.2	118.8	129.8	141.0	152.4
-67.5°	54.2	61.2	68.6	76.4	84.6	93.3	102.4	111.6	121.3	131.2	141.2
-70°	54.2	60.5	67.0	73.9	81.1	88.6	96.5	104.6	112.8	121.4	130.1
-72.5°	54.2	59.7	65.4	71.3	77.5	84.0	90.8	97.7	104.7	111.8	119.1
-75°	54.2	58.9	63.8	68.8	74.0	79.5	85.1	90.9	96.7	102.6	108.5
-77.5°	54.2	58.2	62.2	66.3	70.6	75.0	79.5	84.2	88.9	93.7	98.5
-80°	54.2	57.4	60.6	63.9	67.2	70.6	74.1	77.7	81.4	85.0	88.6
-82.5°	54.2	56.6	59.0	61.4	63.9	66.4	68.8	71.5	74.1	76.7	79.3
-85°	54.2	55.8	57.4	59.0	60.6	62.2	63.9	65.5	67.1	68.7	70.3
-87.5°	54.2	55.0	55.9	56.7	57.5	58.3	59.1	59.9	60.6	61.4	62.1
-90°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.0

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	54.4	54.4	54.3	54.3	54.2	54.2	54.1	54.1	53.8	53.4	53.1
87.5°	62.1	62.7	63.2	63.6	64.1	64.5	64.9	65.3	65.7	66.0	66.3
85°	71.2	72.5	73.8	75.0	76.3	77.5	78.7	79.8	80.9	81.9	82.8
82.5°	80.8	83.0	85.2	87.5	89.7	91.8	93.8	95.8	97.8	99.6	101.3
80°	91.0	94.3	97.6	100.8	104.0	107.1	110.1	113.1	116.1	118.9	121.5
77.5°	101.7	106.1	110.5	114.9	119.2	123.5	127.7	131.7	135.7	139.4	143.0
75°	112.9	118.5	124.1	129.8	135.3	140.8	146.1	151.3	156.3	161.3	166.1
72.5°	124.5	131.5	138.4	145.3	152.1	158.8	165.4	171.8	178.1	184.2	190.0
70°	136.5	144.9	153.1	161.3	169.5	177.5	185.4	193.0	200.9	208.4	215.6
67.5°	148.9	158.5	168.2	177.8	187.3	196.8	206.4	215.7	224.7	233.2	241.3
65°	161.4	172.5	183.6	194.6	205.8	216.9	227.7	238.3	248.5	258.0	267.4
62.5°	174.2	186.7	199.2	211.9	224.5	236.9	249.0	260.7	272.3	283.4	293.9
60°	186.9	200.9	215.1	229.2	243.1	256.7	270.3	283.6	296.4	308.7	320.5
57.5°	199.8	215.3	230.8	246.2	261.6	276.9	291.8	306.3	320.5	334.3	347.4
55°	212.6	229.5	246.4	263.3	280.2	296.9	313.1	329.2	344.7	359.9	374.5
52.5°	225.2	243.4	261.9	280.4	298.6	316.6	334.4	351.8	368.9	385.6	401.7
50°	237.6	257.3	277.3	297.1	316.7	336.3	355.5	374.4	393.1	411.2	428.3
47.5°	249.7	271.0	292.4	313.5	334.7	355.6	376.3	397.0	417.1	436.2	454.6
45°	261.7	284.4	307.1	329.7	352.2	374.6	397.2	419.4	440.4	460.8	480.6
42.5°	273.5	297.4	321.4	345.4	369.3	393.5	417.8	440.8	463.2	485.0	506.0
40°	284.8	310.0	335.3	360.6	386.0	412.4	437.3	461.6	485.5	508.5	531.1
37.5°	295.6	322.1	348.7	375.3	402.9	430.1	456.2	482.0	507.0	531.6	555.5
35°	306.0	333.7	361.6	389.5	419.3	447.0	474.4	501.4	527.9	554.0	579.2
32.5°	315.9	344.8	373.9	404.1	433.9	463.0	491.8	520.1	548.1	575.3	601.9
30°	325.1	355.3	385.5	417.7	448.1	478.5	508.2	538.0	567.2	595.8	623.4
27.5°	333.9	365.2	396.9	430.0	461.2	492.8	524.1	555.0	585.4	615.0	643.7
25°	342.1	374.5	407.9	441.2	473.6	506.1	538.6	570.7	602.3	633.0	662.9
22.5°	349.7	382.7	418.0	451.5	485.2	518.6	552.1	585.3	617.9	649.6	680.7
20°	356.6	390.2	426.8	460.6	495.3	530.1	564.5	598.7	632.3	665.0	697.1
17.5°	362.8	397.7	434.5	469.0	504.4	539.9	575.6	610.7	645.0	678.5	711.5
15°	368.3	404.3	441.2	476.8	512.5	548.9	585.4	621.4	656.2	690.6	724.1
12.5°	373.0	409.9	446.9	483.5	519.9	556.9	593.9	630.9	665.9	701.1	735.0
10°	376.9	414.6	451.5	488.6	526.1	563.5	601.0	638.8	673.8	709.9	744.5
7.5°	379.8	418.3	455.1	492.6	530.8	568.6	606.6	644.5	680.0	716.0	752.1
5°	381.9	421.0	457.7	495.5	533.9	572.4	610.8	648.6	684.6	719.9	757.8
2.5°	383.1	422.7	459.4	497.3	535.8	574.8	613.4	651.1	687.5	722.1	761.4
0°	383.6	423.4	460.0	498.0	536.5	575.8	614.5	652.2	688.5	722.7	762.9
-2.5°	383.6	423.1	459.8	497.8	536.4	575.5	614.2	651.8	688.2	722.7	762.0
-5°	382.7	421.8	458.7	496.6	535.0	573.8	612.4	649.9	686.2	721.2	759.0
-7.5°	381.1	419.4	456.5	494.1	532.4	570.7	609.3	646.4	682.4	718.0	754.1
-10°	378.5	416.1	453.3	490.6	528.3	566.2	604.3	641.3	676.8	712.9	747.1
-12.5°	375.1	411.8	449.0	485.8	522.9	560.2	597.6	634.1	669.2	704.9	738.3
-15°	370.9	406.7	443.7	479.7	516.3	552.8	589.6	625.5	660.3	695.4	727.9
-17.5°	365.9	400.9	437.3	472.5	508.6	544.3	580.6	616.6	649.8	684.4	716.7
-20°	360.2	394.5	430.1	464.7	499.7	534.8	570.1	605.5	637.5	670.4	703.6

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	353.7	387.1	421.7	455.9	489.6	524.2	558.3	591.8	624.6	656.2	688.1
-25°	346.3	378.8	411.9	445.6	478.7	512.4	545.2	578.0	611.5	640.3	670.2
-27.5°	337.9	370.3	402.3	434.6	467.0	499.0	530.8	562.8	593.5	623.9	652.7
-30°	329.3	361.0	391.9	422.9	454.1	484.5	516.3	546.2	576.1	605.7	633.4
-32.5°	320.4	350.9	379.8	409.7	439.6	470.2	499.6	528.8	557.4	585.2	613.1
-35°	310.3	339.1	368.5	397.9	425.6	454.3	482.2	510.6	537.6	564.4	590.1
-37.5°	300.1	327.7	356.2	382.5	409.8	437.2	464.7	490.8	517.4	542.6	567.1
-40°	289.7	315.5	342.1	368.5	394.7	419.8	445.6	471.1	495.7	520.0	543.2
-42.5°	278.8	302.8	328.0	353.6	377.1	402.3	426.1	450.3	473.6	496.5	518.6
-45°	267.4	290.2	313.3	336.6	360.5	382.6	406.2	428.5	451.0	472.3	493.1
-47.5°	254.8	277.2	298.4	320.4	342.3	364.1	384.9	406.6	427.1	447.9	467.1
-50°	242.0	263.4	283.6	303.5	324.1	344.4	364.1	383.2	403.3	422.0	440.6
-52.5°	229.5	248.7	268.4	286.9	305.4	324.2	342.7	360.8	378.0	395.9	412.9
-55°	216.9	234.2	252.0	270.0	287.0	304.0	320.9	337.6	354.0	369.1	384.0
-57.5°	203.9	219.9	235.8	252.1	268.4	283.9	299.3	314.3	329.1	343.6	356.7
-60°	190.4	205.4	220.0	234.5	249.1	263.6	277.5	291.2	304.6	317.2	329.1
-62.5°	177.2	190.5	204.0	217.2	230.1	243.0	255.6	268.0	279.8	291.3	302.0
-65°	163.9	176.0	187.7	199.7	211.4	222.7	233.9	244.9	255.4	265.2	274.6
-67.5°	151.3	161.3	171.9	182.2	192.5	202.6	212.5	222.1	231.4	240.0	248.0
-70°	138.7	147.5	156.3	165.2	174.1	182.7	191.2	199.6	207.5	214.8	221.6
-72.5°	126.5	133.9	141.3	148.7	156.0	163.3	170.7	177.7	184.1	190.0	195.7
-75°	114.5	120.6	126.7	132.8	138.8	144.7	150.5	156.4	161.6	166.4	170.9
-77.5°	103.2	107.9	112.6	117.3	122.2	126.8	131.5	136.0	140.0	143.6	147.0
-80°	92.3	95.9	99.5	103.1	106.6	110.0	113.3	116.6	119.5	122.1	124.5
-82.5°	81.8	84.3	86.8	89.3	91.8	94.2	96.5	98.9	100.8	102.5	104.0
-85°	71.9	73.5	75.1	76.6	78.0	79.5	80.9	82.2	83.2	84.1	84.9
-87.5°	62.8	63.5	64.2	64.9	65.5	66.2	66.8	67.4	67.6	67.7	67.9
-90°	53.8	53.5	53.3	53.1	52.9	52.6	52.4	52.2	52.0	51.8	51.6

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	52.7	52.4	52.0	51.7	51.3	51.0	50.6	50.3	49.9	49.6	49.2
87.5°	66.6	66.8	67.0	67.2	67.4	67.5	67.4	67.2	67.0	66.7	66.4
85°	83.8	84.7	85.5	86.2	86.8	87.4	87.6	87.7	87.7	87.7	87.5
82.5°	103.0	104.6	106.1	107.4	108.7	109.8	110.5	111.0	111.4	111.7	111.8
80°	124.1	126.5	128.7	130.7	132.6	134.3	135.6	136.6	137.4	138.0	138.4
77.5°	146.5	149.8	152.9	155.7	158.6	161.1	163.1	164.7	166.0	166.9	167.6
75°	170.6	174.9	178.9	182.7	186.2	189.4	191.9	194.0	195.8	197.3	198.4
72.5°	195.7	201.2	206.3	210.9	215.1	218.9	222.0	224.8	227.1	229.1	230.7
70°	222.2	228.4	234.2	239.7	244.7	249.4	253.5	257.1	260.1	262.6	264.6
67.5°	249.0	256.2	263.2	269.7	275.7	281.1	285.9	290.0	293.6	296.5	298.8
65°	276.3	284.8	292.7	300.0	306.9	313.2	318.7	323.5	327.6	331.0	333.8
62.5°	303.9	313.4	322.4	330.8	338.6	345.8	352.5	358.1	362.8	366.7	369.9
60°	331.8	342.5	352.8	362.4	371.1	379.0	386.2	392.9	398.5	403.2	406.9
57.5°	360.1	372.0	383.3	394.1	404.3	413.7	422.3	429.5	435.2	439.9	443.7
55°	388.4	401.9	414.6	426.6	437.7	447.4	456.3	463.9	470.5	476.1	480.6
52.5°	416.8	431.6	445.1	457.8	469.7	480.7	490.9	499.6	506.4	512.7	517.8
50°	444.7	460.4	475.2	489.3	502.3	514.5	525.6	534.8	543.0	550.2	555.6
47.5°	472.3	489.2	505.3	520.7	534.7	548.0	560.3	570.8	578.5	585.8	592.0
45°	499.4	517.7	535.2	551.8	567.3	580.5	593.0	604.6	614.5	622.4	629.0
42.5°	526.2	546.0	564.8	582.0	598.3	613.5	627.2	639.4	650.0	658.4	665.0
40°	552.8	573.7	593.4	612.2	629.6	645.5	660.2	672.9	684.0	693.2	700.6
37.5°	578.6	600.7	621.6	641.3	659.9	676.7	692.0	705.6	718.6	727.3	735.0
35°	603.5	626.7	648.6	669.6	689.2	707.0	723.4	737.5	750.8	761.6	768.9
32.5°	627.4	651.6	675.0	697.1	717.3	736.0	753.6	768.6	781.4	792.9	802.0
30°	650.0	675.7	700.2	722.7	744.3	764.6	782.0	798.3	812.8	825.5	833.8
27.5°	671.6	698.5	723.7	747.6	770.3	791.1	809.9	827.0	840.4	852.0	862.2
25°	692.1	719.7	746.1	771.2	794.7	815.9	835.2	852.0	867.3	880.4	889.7
22.5°	710.7	739.5	767.2	793.0	816.9	838.6	858.9	877.0	891.9	905.6	916.8
20°	728.0	757.8	785.9	812.6	837.1	860.1	880.9	898.8	915.3	929.0	939.4
17.5°	743.5	774.1	803.1	830.3	855.8	879.3	900.2	919.2	935.6	949.5	960.3
15°	757.3	788.4	818.3	846.1	872.2	896.3	917.9	937.0	954.0	968.2	979.3
12.5°	769.4	800.6	831.2	859.8	886.6	910.9	932.8	952.7	969.9	984.5	996.5
10°	779.2	810.8	842.0	870.9	898.5	923.2	945.6	965.9	983.3	998.3	1009.6
7.5°	786.7	819.0	850.6	879.6	907.5	933.1	955.6	976.6	993.9	1008.4	1020.4
5°	791.7	825.1	857.0	885.9	914.4	941.0	963.3	983.7	1001.5	1016.3	1028.6
2.5°	794.6	829.1	861.1	890.2	919.0	944.7	968.9	989.0	1005.4	1020.6	1032.6
0°	795.6	830.7	862.9	891.9	921.0	946.1	971.7	991.8	1006.8	1022.2	1032.8
-2.5°	795.2	829.7	861.7	890.9	919.6	945.0	969.3	989.5	1005.9	1020.6	1032.5
-5°	793.0	826.1	857.8	887.5	915.6	941.4	964.5	985.1	1003.7	1016.3	1028.9
-7.5°	788.7	820.7	851.0	881.2	909.5	935.0	957.6	978.4	995.5	1010.1	1021.7
-10°	781.8	813.8	843.6	871.9	900.5	926.2	947.9	968.0	985.9	1001.5	1013.4
-12.5°	772.0	804.1	834.7	863.2	890.7	914.7	936.7	957.5	973.1	988.9	999.5
-15°	761.1	792.5	822.2	848.3	875.7	901.0	923.3	943.1	960.8	971.5	982.2
-17.5°	748.3	778.9	809.0	836.3	860.9	885.9	906.6	926.0	942.7	955.1	964.1
-20°	733.8	763.5	792.9	819.8	844.3	866.5	889.2	906.0	921.2	933.2	944.9

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	718.1	746.8	773.9	801.7	825.9	848.1	866.6	884.9	898.8	910.4	919.5
-25°	700.7	728.2	754.8	780.3	805.2	826.7	844.6	860.5	875.1	886.3	895.0
-27.5°	680.3	708.5	733.8	757.9	781.1	802.3	819.4	834.7	849.8	861.3	869.6
-30°	660.3	685.2	711.7	734.7	755.5	774.2	792.6	807.5	820.3	831.0	840.7
-32.5°	638.8	663.2	685.4	709.5	729.0	747.2	762.9	777.9	790.6	800.9	809.6
-35°	615.5	639.9	662.0	680.5	700.4	718.1	733.7	747.8	759.0	769.0	777.6
-37.5°	590.6	613.4	635.5	654.4	670.6	686.9	701.6	715.2	726.7	737.0	744.1
-40°	565.4	586.7	606.1	625.1	642.0	656.8	669.8	682.7	692.1	700.8	708.5
-42.5°	539.9	559.0	577.1	594.2	610.1	625.2	637.9	649.2	658.8	667.0	673.5
-45°	513.2	530.9	547.5	563.2	578.3	591.9	604.1	615.1	624.4	631.7	637.5
-47.5°	485.0	502.1	517.5	532.1	545.5	558.0	569.6	580.1	588.5	595.4	601.0
-50°	457.2	472.2	486.8	500.7	513.2	524.4	534.4	543.6	551.5	558.0	563.3
-52.5°	427.7	442.7	456.2	468.4	480.0	490.6	500.1	508.4	515.5	521.0	525.4
-55°	398.7	412.2	424.3	436.1	446.9	456.6	465.1	472.6	479.0	484.2	488.4
-57.5°	369.2	381.1	392.9	403.6	413.2	421.9	429.9	436.8	442.7	447.4	451.1
-60°	340.5	351.5	361.8	371.2	379.5	387.8	395.3	401.0	405.9	410.2	413.7
-62.5°	312.0	321.4	330.4	338.9	347.0	354.4	361.1	366.1	369.9	373.1	375.6
-65°	283.6	292.2	300.2	307.7	314.3	320.2	325.7	330.1	333.9	337.1	339.5
-67.5°	255.6	262.7	269.6	276.2	282.3	287.7	292.4	296.2	299.4	302.0	303.8
-70°	228.3	234.6	240.5	245.9	250.8	255.1	258.7	261.7	264.6	266.8	268.4
-72.5°	201.2	206.5	211.5	216.0	220.1	223.9	227.1	229.7	231.8	233.5	234.6
-75°	175.2	179.2	183.0	186.4	189.6	192.4	194.9	197.2	199.1	200.5	201.5
-77.5°	150.2	153.3	156.2	158.8	161.2	163.3	165.1	166.6	167.9	169.0	169.7
-80°	126.9	129.2	131.3	133.3	135.0	136.4	137.6	138.5	139.3	139.9	140.3
-82.5°	105.5	106.9	108.1	109.2	110.2	111.1	111.8	112.3	112.8	113.1	113.2
-85°	85.6	86.4	87.0	87.5	88.0	88.3	88.6	88.8	88.9	88.9	88.8
-87.5°	68.0	68.1	68.2	68.2	68.2	68.1	68.1	68.0	67.8	67.6	67.4
-90°	51.4	51.1	50.9	50.7	50.5	50.3	49.9	49.5	49.1	48.7	48.2

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	48.9	48.5	48.2	47.8	47.3	46.9	46.4	46.0	45.5	45.1	44.6
87.5°	66.1	65.7	65.3	64.9	64.5	64.1	63.6	63.1	62.6	62.0	61.4
85°	87.3	87.0	86.6	86.1	85.6	85.1	84.4	83.7	82.9	82.1	81.1
82.5°	111.7	111.5	111.2	110.7	110.1	109.4	108.6	107.6	106.5	105.2	103.8
80°	138.5	138.5	138.3	137.8	137.1	136.3	135.2	133.9	132.3	130.6	128.7
77.5°	168.0	168.1	167.9	167.5	166.7	165.7	164.3	162.7	160.9	158.7	156.3
75°	199.1	199.5	199.5	199.1	198.2	196.9	195.3	193.2	190.9	188.2	185.1
72.5°	231.9	232.7	232.9	232.7	231.6	230.0	228.0	225.5	222.5	219.2	215.6
70°	266.0	266.8	267.1	266.9	265.7	264.0	261.7	258.9	255.7	251.9	247.6
67.5°	300.5	301.6	302.0	301.9	300.6	298.8	296.3	293.3	289.6	285.2	280.2
65°	335.7	337.0	337.6	337.4	336.1	334.2	331.5	328.0	323.9	319.0	313.4
62.5°	372.2	373.8	374.6	374.5	373.1	370.8	367.6	363.7	359.0	353.5	347.1
60°	409.6	411.4	412.2	412.0	410.5	408.0	404.5	400.0	394.6	388.3	381.6
57.5°	446.6	448.5	449.3	449.2	447.8	445.3	441.9	437.4	431.9	425.3	417.6
55°	484.0	486.2	487.2	487.0	485.4	482.7	478.8	473.7	467.5	460.5	452.6
52.5°	521.5	523.8	524.9	524.8	523.1	520.2	516.0	510.5	503.7	495.9	487.3
50°	559.5	562.1	563.2	563.0	561.3	558.2	553.9	548.2	541.2	532.7	522.9
47.5°	596.5	599.4	600.6	600.5	598.9	595.9	591.4	585.0	577.0	567.6	557.3
45°	633.9	637.2	638.9	638.9	637.0	633.5	628.5	622.2	613.8	603.6	592.3
42.5°	669.9	673.6	675.7	675.9	673.6	669.5	663.7	657.0	648.8	638.4	626.6
40°	706.5	710.3	712.1	711.9	710.0	706.2	700.6	692.9	683.0	671.3	658.6
37.5°	741.0	745.0	747.0	746.9	744.5	739.9	733.4	726.1	717.3	706.0	691.7
35°	775.0	779.2	781.3	781.3	778.9	774.4	768.0	759.7	749.9	735.9	722.4
32.5°	808.6	812.9	814.9	814.5	812.1	807.3	800.5	791.6	780.2	767.2	752.8
30°	840.0	844.9	847.8	848.3	845.1	839.6	832.0	822.6	811.4	797.3	781.6
27.5°	869.9	875.0	876.9	876.7	874.0	869.0	861.4	851.9	839.0	824.8	809.4
25°	898.3	903.4	906.0	906.0	903.2	897.8	889.7	879.1	866.4	851.9	834.5
22.5°	924.8	929.2	931.6	931.6	928.8	923.4	915.4	904.9	891.9	875.9	858.7
20°	947.6	953.1	956.6	957.7	954.4	948.1	939.2	928.4	914.7	898.6	880.1
17.5°	970.2	974.7	978.0	978.3	975.1	969.0	960.4	950.2	935.6	919.4	899.3
15°	987.7	993.9	995.6	995.8	992.7	987.0	978.2	967.4	953.3	937.0	917.5
12.5°	1004.2	1010.0	1013.2	1013.6	1010.1	1004.4	995.5	983.1	968.8	951.0	932.2
10°	1018.3	1022.8	1026.7	1027.6	1023.0	1018.3	1008.4	996.7	981.8	964.8	942.9
7.5°	1029.2	1035.5	1038.1	1038.2	1033.6	1028.8	1019.7	1007.3	992.5	973.9	951.9
5°	1037.5	1043.2	1046.6	1045.8	1040.6	1037.3	1027.5	1015.4	999.5	981.9	961.2
2.5°	1042.1	1047.8	1050.4	1049.0	1046.8	1040.0	1031.1	1019.3	1005.0	986.2	965.6
0°	1044.0	1050.3	1053.3	1051.7	1049.5	1044.2	1034.4	1019.6	1006.6	987.2	967.0
-2.5°	1042.3	1049.0	1052.0	1049.3	1046.5	1040.0	1031.1	1018.0	1004.2	985.3	965.1
-5°	1038.2	1043.7	1046.0	1046.1	1040.8	1035.3	1025.8	1013.5	998.3	980.5	960.3
-7.5°	1030.8	1035.3	1035.2	1038.0	1035.3	1026.8	1018.6	1006.4	991.2	973.3	952.9
-10°	1020.2	1025.9	1028.0	1028.3	1024.2	1017.9	1008.5	996.6	981.6	963.8	943.8
-12.5°	1006.9	1012.2	1015.1	1014.5	1010.9	1004.7	996.3	983.6	968.9	951.6	931.9
-15°	991.5	996.7	999.6	1000.2	996.3	988.7	979.2	968.1	953.9	936.9	917.4
-17.5°	969.9	976.4	979.9	980.3	976.6	970.5	961.3	951.9	936.4	919.5	900.2
-20°	950.7	956.2	958.8	958.3	956.3	950.9	941.5	930.3	915.6	899.1	880.9

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	926.7	932.5	936.4	937.0	933.1	926.4	917.2	905.5	892.2	876.8	860.0
-25°	902.3	907.6	911.0	911.8	907.4	900.3	891.0	879.6	868.3	854.1	836.0
-27.5°	876.1	880.5	883.3	883.7	879.6	873.4	865.6	855.4	841.6	827.2	811.2
-30°	847.6	851.9	854.0	853.6	849.9	843.8	835.6	826.2	814.4	799.1	782.6
-32.5°	815.5	819.6	821.9	821.9	818.5	812.8	804.6	793.8	782.2	769.5	754.5
-35°	783.6	787.6	789.7	789.7	786.2	780.5	772.7	763.1	752.2	738.8	724.5
-37.5°	749.2	752.8	754.7	754.6	751.3	746.0	738.7	730.0	719.2	705.8	692.9
-40°	713.9	717.4	719.1	718.8	715.6	710.6	703.9	695.6	685.7	674.4	661.5
-42.5°	678.0	680.6	681.7	681.3	678.7	674.5	668.6	660.7	650.4	639.2	627.6
-45°	641.8	644.4	645.4	644.8	642.2	638.1	632.5	625.4	616.2	605.1	593.6
-47.5°	605.0	607.7	608.9	608.6	605.8	601.6	595.9	588.9	580.6	571.0	560.2
-50°	567.3	569.9	571.0	570.7	568.2	564.3	559.0	552.3	544.5	536.0	526.1
-52.5°	528.8	531.1	532.2	531.9	529.7	526.1	521.3	515.2	508.1	499.9	489.9
-55°	491.4	493.4	494.1	493.7	491.5	488.1	483.5	477.9	471.2	463.5	454.7
-57.5°	453.8	455.5	456.1	455.7	453.6	450.4	446.1	440.8	434.8	427.8	419.8
-60°	416.3	417.9	418.6	418.3	416.3	413.2	409.3	404.5	398.8	392.4	385.2
-62.5°	377.6	378.7	378.9	378.2	376.6	374.2	370.9	366.7	361.8	356.3	350.0
-65°	341.1	341.9	341.9	341.2	339.7	337.5	334.5	330.8	326.4	321.2	315.4
-67.5°	305.1	305.7	305.7	305.0	303.6	301.5	298.9	295.6	291.8	287.2	282.0
-70°	269.5	269.9	269.8	269.1	267.8	265.9	263.6	260.7	257.3	253.4	249.0
-72.5°	235.4	235.6	235.4	234.7	233.5	231.9	229.8	227.3	224.3	220.9	216.9
-75°	202.1	202.3	202.0	201.4	200.2	198.6	196.7	194.4	191.7	188.7	185.4
-77.5°	170.1	170.2	170.0	169.6	168.5	167.1	165.5	163.6	161.4	158.9	156.1
-80°	140.5	140.5	140.2	139.8	138.9	137.7	136.3	134.8	133.0	131.0	128.8
-82.5°	113.2	113.1	112.8	112.3	111.5	110.5	109.4	108.2	106.8	105.3	103.6
-85°	88.6	88.4	88.0	87.6	86.9	86.1	85.2	84.3	83.3	82.2	81.0
-87.5°	67.2	66.9	66.5	66.2	65.6	65.0	64.3	63.7	62.9	62.2	61.4
-90°	47.8	47.4	47.0	46.6	46.3	46.0	45.7	45.4	45.2	44.9	44.6

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	44.2	43.7	43.5	43.2	43.0	42.7	42.5	42.2	42.0	41.7	41.5
87.5°	60.8	60.1	59.4	58.7	58.0	57.2	56.4	55.6	54.8	54.0	53.1
85°	80.1	79.0	77.8	76.6	75.3	74.0	72.6	71.1	69.6	68.0	66.4
82.5°	102.2	100.5	98.7	96.8	94.8	92.7	90.5	88.3	86.0	83.7	81.3
80°	126.6	124.2	121.7	119.2	116.5	113.7	110.7	107.5	104.3	100.9	97.4
77.5°	153.6	150.6	147.4	143.8	140.2	136.3	132.3	128.1	123.9	119.4	115.0
75°	181.8	178.1	174.1	169.8	165.2	160.6	155.7	150.5	145.0	139.2	133.7
72.5°	211.6	207.3	202.6	197.4	191.8	186.1	180.0	173.7	167.0	160.2	153.7
70°	242.8	237.7	232.2	226.1	219.7	212.9	205.8	198.3	190.2	182.1	174.2
67.5°	274.6	268.5	262.0	255.2	248.1	240.4	232.4	223.8	214.8	205.5	195.9
65°	307.0	300.2	293.3	285.7	277.0	267.9	258.8	249.2	239.0	228.9	218.3
62.5°	340.2	333.0	324.9	316.0	306.4	296.4	286.3	275.0	263.4	252.3	240.1
60°	374.2	365.7	356.6	347.0	336.8	325.8	313.7	301.2	288.7	275.6	262.2
57.5°	408.8	399.1	388.8	378.2	366.6	354.4	341.9	328.6	314.0	299.4	284.9
55°	443.7	433.9	422.3	409.9	397.0	383.7	369.3	354.7	339.9	324.0	307.1
52.5°	477.4	466.1	454.2	441.4	428.0	412.5	397.2	381.6	364.4	347.6	330.2
50°	511.7	499.4	486.3	472.4	457.4	441.2	425.2	407.0	389.6	371.0	352.0
47.5°	545.9	533.0	518.8	503.0	486.8	470.0	451.9	433.4	413.9	394.0	373.9
45°	579.2	565.0	549.7	533.9	516.6	497.5	478.6	459.3	438.1	417.4	394.8
42.5°	613.4	597.5	581.0	563.7	544.4	525.7	504.7	483.8	462.5	439.3	416.7
40°	645.4	629.0	612.1	592.6	573.0	551.5	530.7	508.4	485.2	461.7	436.9
37.5°	676.0	658.9	641.8	621.4	600.1	577.9	555.5	532.0	507.8	482.6	457.1
35°	707.3	688.6	669.6	648.8	626.8	603.6	579.5	554.7	529.2	503.0	475.9
32.5°	734.9	717.5	697.1	674.9	651.8	628.0	602.7	576.7	549.7	522.1	494.3
30°	763.5	744.3	721.9	700.5	675.8	650.8	624.4	597.1	569.2	540.7	511.0
27.5°	790.7	769.7	747.7	723.2	699.5	672.1	645.2	616.4	587.3	557.1	527.0
25°	815.5	794.1	771.3	746.8	720.6	693.2	662.8	634.7	604.6	574.0	542.8
22.5°	838.8	816.5	792.9	767.4	740.6	713.2	682.9	651.4	619.5	587.9	555.2
20°	860.5	837.6	812.9	786.8	759.0	729.7	699.1	664.7	633.9	601.7	568.6
17.5°	878.6	856.9	830.6	803.9	775.2	745.4	714.8	681.8	647.9	613.5	580.2
15°	896.1	871.0	846.9	817.9	789.0	758.8	727.3	693.2	657.5	624.3	589.4
12.5°	909.4	886.1	861.0	831.2	801.7	770.4	737.9	704.4	668.3	633.7	597.8
10°	921.2	897.6	869.5	842.6	811.7	780.6	747.4	713.1	678.4	641.7	604.7
7.5°	930.8	905.6	879.7	851.7	819.8	787.9	754.3	719.8	684.4	647.9	610.4
5°	937.8	911.6	886.9	857.6	825.9	793.1	759.0	724.4	688.7	651.8	614.7
2.5°	942.0	915.5	890.9	860.5	829.5	796.3	761.7	727.1	691.2	654.2	617.3
0°	943.8	916.5	892.0	861.5	830.6	797.1	762.4	727.8	692.0	655.0	618.2
-2.5°	942.3	915.4	890.3	860.0	829.2	796.0	761.4	726.8	691.1	654.2	617.3
-5°	938.0	911.6	886.0	856.0	825.4	792.7	758.3	723.7	688.3	651.7	614.6
-7.5°	930.5	905.3	879.3	849.6	819.3	787.2	753.1	718.6	683.8	647.5	610.3
-10°	920.9	895.8	869.6	840.7	810.8	779.5	745.9	711.5	677.3	641.3	604.3
-12.5°	909.5	885.0	858.3	829.4	800.1	769.0	736.7	702.8	668.7	633.5	597.3
-15°	895.4	871.6	845.3	817.4	787.9	756.8	725.2	692.3	658.6	624.2	588.9
-17.5°	879.2	855.8	830.0	802.9	774.0	743.7	712.2	679.9	646.9	613.3	579.0
-20°	860.8	837.6	812.7	786.3	758.1	728.8	697.9	666.2	633.5	600.9	567.3

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	839.6	817.1	793.6	767.9	740.6	711.9	682.0	651.2	619.5	587.0	554.4
-25°	816.6	795.4	772.3	747.2	721.1	693.3	664.6	634.6	604.1	572.4	540.6
-27.5°	791.6	771.6	748.9	725.3	699.9	673.3	645.4	616.8	587.1	556.7	525.9
-30°	765.3	746.0	724.5	701.6	677.3	651.7	625.2	597.5	568.8	539.8	510.2
-32.5°	737.6	718.9	698.2	676.6	653.2	629.0	603.4	576.8	549.7	521.8	493.2
-35°	708.0	690.2	671.4	650.2	628.3	604.8	580.4	555.4	529.3	502.7	475.4
-37.5°	678.2	661.4	642.1	622.9	601.8	579.6	556.8	532.8	508.1	482.8	456.7
-40°	645.5	630.3	613.3	594.4	574.6	553.9	532.0	509.5	486.1	461.9	437.1
-42.5°	614.4	598.8	582.8	565.5	546.9	527.2	506.7	485.3	463.1	440.2	417.1
-45°	581.2	567.4	552.3	535.7	518.5	499.9	480.5	460.4	439.4	418.3	395.7
-47.5°	548.1	535.2	521.2	505.5	489.2	471.7	453.7	434.9	415.8	394.8	373.6
-50°	514.4	502.2	488.7	474.2	459.2	443.2	426.6	409.1	389.8	370.7	351.7
-52.5°	479.2	468.3	456.2	443.1	429.2	414.8	398.3	381.0	364.3	347.2	329.7
-55°	445.0	434.6	423.9	411.9	398.6	384.3	369.9	354.6	339.2	323.5	307.2
-57.5°	410.9	401.5	391.2	380.1	368.0	355.1	342.0	328.3	313.9	299.6	284.9
-60°	377.4	368.2	358.4	348.5	337.7	326.2	314.1	301.7	288.9	275.8	262.4
-62.5°	342.9	335.0	326.4	317.2	307.5	297.3	286.8	275.6	263.9	252.0	240.1
-65°	308.8	301.8	294.6	286.8	278.1	268.9	259.3	249.4	239.2	228.5	217.8
-67.5°	276.2	269.9	263.2	256.1	248.8	240.9	232.5	223.7	214.7	205.3	195.9
-70°	244.0	238.5	232.7	226.7	220.3	213.4	206.0	198.5	190.7	182.7	174.4
-72.5°	212.5	207.8	202.8	197.6	191.9	186.2	180.2	173.9	167.3	160.6	153.7
-75°	181.7	177.8	173.9	169.7	165.2	160.5	155.5	150.4	145.0	139.4	133.9
-77.5°	153.1	150.0	146.8	143.4	139.8	136.1	132.2	128.1	123.9	119.5	115.0
-80°	126.5	124.0	121.6	119.0	116.2	113.3	110.3	107.2	104.1	100.8	97.4
-82.5°	101.9	100.0	98.3	96.5	94.5	92.4	90.3	88.0	85.8	83.5	81.1
-85°	79.7	78.4	77.3	76.2	74.9	73.6	72.2	70.8	69.3	67.8	66.3
-87.5°	60.6	59.8	59.1	58.4	57.7	57.0	56.2	55.4	54.6	53.8	53.0
-90°	44.3	44.0	43.7	43.4	43.1	42.8	42.6	42.3	42.0	41.7	41.4

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	41.3	41.1	40.8	40.6	40.4	40.2	39.9	39.7	39.5	39.6	39.6
87.5°	52.5	51.8	51.1	50.4	49.6	48.9	48.1	47.3	46.5	45.8	45.1
85°	65.0	63.5	62.0	60.5	59.1	57.6	56.1	54.6	53.1	51.6	50.1
82.5°	79.0	76.8	74.4	72.1	69.6	67.2	64.8	62.3	59.9	57.6	55.3
80°	94.2	90.9	87.5	84.2	80.9	77.4	74.1	70.7	67.3	64.0	60.6
77.5°	110.8	106.3	101.9	97.3	92.8	88.3	83.8	79.4	75.0	70.7	66.4
75°	128.2	122.7	117.0	111.4	105.6	99.9	94.1	88.5	83.0	77.6	72.4
72.5°	147.0	139.9	132.9	125.9	119.0	112.0	105.0	98.1	91.3	84.8	78.4
70°	166.1	158.0	149.8	141.3	132.8	124.4	116.3	108.1	100.0	92.2	84.6
67.5°	186.1	176.6	166.9	157.2	147.4	137.4	127.7	118.3	109.0	99.9	91.1
65°	207.3	196.0	184.6	173.3	162.1	151.0	139.7	128.6	118.2	107.8	97.6
62.5°	228.2	215.8	203.0	190.1	177.2	164.5	152.0	139.4	127.3	115.7	104.3
60°	249.0	235.1	221.3	207.0	192.6	178.3	164.2	150.4	136.7	123.6	111.0
57.5°	269.6	254.6	239.1	223.8	208.0	192.2	176.6	161.2	146.3	131.7	117.7
55°	290.8	274.0	257.2	240.2	223.2	206.0	189.0	172.0	155.8	139.8	124.3
52.5°	311.7	293.5	275.1	256.7	238.1	219.7	201.2	183.1	165.2	147.9	131.1
50°	332.9	312.7	293.0	272.9	253.0	233.0	213.3	193.8	174.5	155.8	137.7
47.5°	353.0	332.0	310.2	289.1	267.5	246.2	225.3	204.3	183.8	163.6	144.3
45°	373.0	350.4	327.7	304.4	281.8	259.2	236.9	214.8	192.7	171.2	150.7
42.5°	392.1	368.4	344.4	319.9	295.8	271.8	248.2	225.0	201.4	178.8	156.8
40°	412.0	385.9	360.4	334.9	309.0	284.2	259.4	234.7	210.0	186.0	162.8
37.5°	431.0	403.2	376.2	349.2	322.3	296.0	269.9	244.0	218.5	192.9	168.6
35°	448.4	420.9	390.6	362.8	335.2	307.2	279.9	253.1	226.5	199.6	174.2
32.5°	465.3	436.0	406.0	376.3	347.2	318.1	289.7	261.8	233.9	206.0	179.5
30°	481.4	450.9	421.0	388.4	358.5	328.7	298.7	269.6	240.9	212.2	184.5
27.5°	496.8	465.0	433.4	400.8	369.4	338.4	307.2	276.9	247.4	218.2	189.1
25°	510.1	478.1	445.3	412.6	379.6	347.1	315.3	283.9	253.6	223.6	193.4
22.5°	523.1	490.3	456.6	423.4	388.2	355.3	322.7	290.4	259.4	228.5	197.3
20°	535.2	501.3	466.7	432.0	396.5	362.8	329.7	296.2	264.5	232.8	201.0
17.5°	545.5	510.7	475.5	440.0	404.4	369.9	335.7	301.5	268.8	236.7	204.3
15°	553.8	519.3	483.2	447.3	411.2	376.1	340.6	306.1	272.6	240.1	207.1
12.5°	561.9	526.8	490.0	453.5	417.0	380.9	344.8	310.0	275.8	243.0	209.6
10°	569.1	532.6	495.6	458.6	421.7	384.7	348.3	313.3	278.5	245.3	211.8
7.5°	574.6	536.8	499.9	462.6	425.1	387.6	351.2	315.8	280.7	247.2	213.4
5°	577.9	539.7	503.0	465.5	427.5	389.7	353.3	317.6	282.2	248.5	214.6
2.5°	579.8	541.2	504.9	467.2	429.0	390.9	354.5	318.7	283.1	249.3	215.3
0°	580.4	541.5	505.5	467.7	429.4	391.3	355.0	319.1	283.4	249.6	215.6
-2.5°	579.7	541.0	504.7	467.1	428.8	390.9	354.5	318.7	283.1	249.3	215.3
-5°	577.6	539.3	502.7	465.2	427.3	389.7	353.3	317.7	282.2	248.5	214.5
-7.5°	574.0	536.3	499.3	462.2	424.7	387.7	351.2	315.8	280.7	247.1	213.3
-10°	568.4	532.0	494.8	458.1	421.1	384.8	348.2	313.3	278.5	245.2	211.6
-12.5°	561.4	526.1	489.1	452.9	416.4	381.0	344.8	310.1	275.8	242.8	209.4
-15°	553.2	518.7	482.3	446.6	410.7	376.1	340.6	306.1	272.6	239.9	206.8
-17.5°	544.0	509.9	474.6	439.3	404.2	369.9	335.7	301.4	268.7	236.5	203.9
-20°	533.7	499.7	465.6	431.0	396.6	362.9	329.7	296.1	264.3	232.5	200.5

REPORT NUMBER: P1209900 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	522.0	488.6	455.4	421.8	388.4	355.3	322.9	290.1	259.2	228.1	196.7
-25°	508.8	476.6	444.2	411.7	379.7	347.0	315.4	283.8	253.4	223.2	192.6
-27.5°	494.5	463.5	432.0	400.7	369.6	338.3	307.3	276.8	247.2	217.7	188.3
-30°	480.0	449.4	419.1	388.9	358.6	328.7	298.6	269.4	240.5	211.7	183.6
-32.5°	464.2	434.8	405.5	376.4	347.1	318.3	289.4	261.5	233.4	205.3	178.6
-35°	447.6	419.5	391.2	363.0	335.2	307.3	279.7	252.7	225.9	198.6	173.3
-37.5°	430.1	403.5	376.2	349.0	322.5	295.8	269.6	243.6	217.8	191.7	167.7
-40°	412.2	386.2	360.4	334.8	309.1	283.9	259.0	234.1	209.2	184.7	161.8
-42.5°	392.8	368.4	344.2	320.0	295.5	271.5	247.8	224.2	200.2	177.5	155.7
-45°	372.9	350.2	327.6	304.5	281.6	258.7	236.2	213.8	191.1	170.0	149.5
-47.5°	352.8	331.7	310.3	288.8	267.3	245.6	224.3	203.0	182.1	162.2	143.1
-50°	332.5	312.7	292.8	272.7	252.5	232.2	212.2	191.9	172.9	154.4	136.6
-52.5°	311.7	293.4	275.0	256.3	237.5	218.6	199.3	181.2	163.5	146.4	130.0
-55°	290.8	274.0	257.0	239.7	222.3	204.7	186.9	170.3	154.1	138.4	123.2
-57.5°	269.8	254.4	238.7	222.9	206.8	190.4	174.7	159.2	144.6	130.3	116.5
-60°	248.7	234.7	220.5	205.9	191.1	176.7	162.3	148.4	135.1	122.2	109.7
-62.5°	227.7	215.1	202.0	189.0	176.0	163.0	150.2	137.6	125.7	114.1	103.0
-65°	206.7	195.3	184.0	172.5	160.9	149.5	138.1	127.0	116.4	106.3	96.4
-67.5°	186.2	176.3	166.3	156.2	146.2	136.1	126.3	116.5	107.3	98.4	89.8
-70°	166.1	157.6	149.0	140.4	131.8	123.2	114.7	106.3	98.3	90.7	83.3
-72.5°	146.7	139.5	132.4	125.1	117.9	110.7	103.5	96.4	89.6	83.2	77.1
-75°	128.1	122.3	116.4	110.5	104.5	98.6	92.6	86.8	81.3	76.1	71.1
-77.5°	110.5	105.8	101.2	96.4	91.7	87.0	82.4	77.7	73.3	69.2	65.2
-80°	93.9	90.4	86.8	83.3	79.8	76.2	72.6	69.1	65.7	62.6	59.5
-82.5°	78.6	76.2	73.7	71.1	68.5	66.1	63.5	61.0	58.5	56.4	54.2
-85°	64.8	63.2	61.5	59.9	58.3	56.7	55.0	53.3	51.7	50.4	49.1
-87.5°	52.2	51.4	50.6	49.8	48.9	48.1	47.2	46.3	45.4	44.9	44.3
-90°	41.3	41.2	41.1	41.0	40.9	40.8	40.7	40.6	40.5	40.4	40.4

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CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	39.7	39.7	39.8	39.8	39.9	39.9	40.0
87.5°	44.4	43.7	42.9	42.2	41.5	40.7	40.0
85°	48.6	47.1	45.6	44.2	42.8	41.4	40.0
82.5°	53.0	50.7	48.5	46.2	44.2	42.1	40.0
80°	57.5	54.4	51.4	48.4	45.5	42.8	40.0
77.5°	62.2	58.2	54.3	50.6	46.9	43.4	40.0
75°	67.2	62.1	57.3	52.7	48.3	44.1	40.0
72.5°	72.2	66.2	60.3	54.9	49.7	44.7	40.0
70°	77.4	70.3	63.5	57.1	51.1	45.4	40.0
67.5°	82.6	74.5	66.7	59.2	52.5	46.0	40.0
65°	87.9	78.7	69.9	61.5	53.8	46.6	40.0
62.5°	93.3	82.9	73.1	63.8	55.2	47.3	40.0
60°	98.8	87.1	76.3	66.0	56.6	47.9	40.0
57.5°	104.2	91.5	79.4	68.2	57.9	48.6	40.0
55°	109.7	95.7	82.5	70.4	59.1	49.2	40.0
52.5°	115.1	100.0	85.6	72.6	60.4	49.8	40.0
50°	120.5	104.1	88.8	74.7	61.7	50.3	40.0
47.5°	125.7	108.3	91.9	76.8	63.0	50.9	40.0
45°	130.9	112.3	94.8	78.8	64.2	51.4	40.0
42.5°	135.9	116.2	97.7	80.7	65.4	51.9	40.0
40°	140.8	119.9	100.5	82.5	66.5	52.4	40.0
37.5°	145.5	123.6	103.1	84.3	67.6	52.8	40.0
35°	150.0	127.1	105.7	86.1	68.6	53.3	40.0
32.5°	154.2	130.4	108.2	87.8	69.6	53.7	40.0
30°	158.2	133.5	110.5	89.4	70.6	54.1	40.0
27.5°	162.0	136.4	112.6	90.8	71.4	54.5	40.0
25°	165.5	139.1	114.5	92.2	72.2	54.8	40.0
22.5°	168.6	141.6	116.4	93.4	72.9	55.1	40.0
20°	171.5	143.9	118.1	94.6	73.6	55.4	40.0
17.5°	174.1	145.9	119.6	95.6	74.1	55.6	40.0
15°	176.4	147.6	120.9	96.4	74.6	55.8	40.0
12.5°	178.3	149.1	121.9	97.2	75.1	56.0	40.0
10°	179.9	150.3	122.8	97.8	75.4	56.2	40.0
7.5°	181.1	151.3	123.5	98.2	75.7	56.3	40.0
5°	181.9	151.9	124.0	98.6	75.9	56.3	40.0
2.5°	182.4	152.3	124.3	98.7	76.0	56.4	40.0
0°	182.5	152.4	124.4	98.8	76.0	56.4	40.0
-2.5°	182.3	152.2	124.3	98.7	76.0	56.4	40.0
-5°	181.8	151.8	124.0	98.5	75.8	56.3	40.0
-7.5°	180.9	151.1	123.4	98.1	75.6	56.2	40.0
-10°	179.6	150.1	122.7	97.7	75.3	56.1	40.0
-12.5°	178.0	148.8	121.8	97.0	75.0	56.0	40.0
-15°	176.0	147.3	120.6	96.3	74.5	55.8	40.0
-17.5°	173.7	145.5	119.3	95.4	74.0	55.6	40.0
-20°	171.1	143.5	117.8	94.3	73.4	55.3	40.0

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CATALOG NUMBER: BKHDR150CLD2D-MID-4000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	168.1	141.2	116.1	93.2	72.8	55.0	40.0
-25°	164.9	138.7	114.2	91.9	72.0	54.7	40.0
-27.5°	161.3	135.9	112.2	90.6	71.2	54.4	40.0
-30°	157.5	133.0	110.0	89.1	70.4	54.0	40.0
-32.5°	153.5	129.8	107.7	87.4	69.4	53.6	40.0
-35°	149.2	126.5	105.2	85.7	68.4	53.2	40.0
-37.5°	144.7	123.0	102.6	83.9	67.3	52.7	40.0
-40°	140.0	119.3	100.0	82.2	66.3	52.3	40.0
-42.5°	135.0	115.4	97.2	80.3	65.2	51.8	40.0
-45°	130.0	111.5	94.3	78.4	64.0	51.3	40.0
-47.5°	124.8	107.5	91.3	76.3	62.8	50.8	40.0
-50°	119.5	103.3	88.2	74.3	61.5	50.2	40.0
-52.5°	114.1	99.2	85.0	72.2	60.2	49.6	40.0
-55°	108.7	94.9	81.9	70.0	58.9	49.1	40.0
-57.5°	103.2	90.6	78.8	67.7	57.6	48.4	40.0
-60°	97.8	86.2	75.6	65.5	56.3	47.8	40.0
-62.5°	92.3	82.0	72.4	63.3	54.9	47.2	40.0
-65°	86.8	77.8	69.2	61.0	53.6	46.5	40.0
-67.5°	81.5	73.6	66.0	58.8	52.2	45.9	40.0
-70°	76.2	69.4	62.9	56.7	50.8	45.2	40.0
-72.5°	71.1	65.3	59.7	54.5	49.4	44.6	40.0
-75°	66.1	61.3	56.7	52.3	48.0	44.0	40.0
-77.5°	61.3	57.4	53.7	50.2	46.6	43.3	40.0
-80°	56.6	53.7	50.8	48.0	45.3	42.6	40.0
-82.5°	52.1	50.0	48.0	45.9	43.9	42.0	40.0
-85°	47.8	46.5	45.2	43.9	42.6	41.3	40.0
-87.5°	43.7	43.1	42.5	41.9	41.2	40.6	40.0
-90°	40.3	40.3	40.2	40.2	40.1	40.1	40.0

(END OF REPORT)