

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: P1305388 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-640L-40-80-7F-HEG-A**

Issue Date: 2/3/2026

Test Information

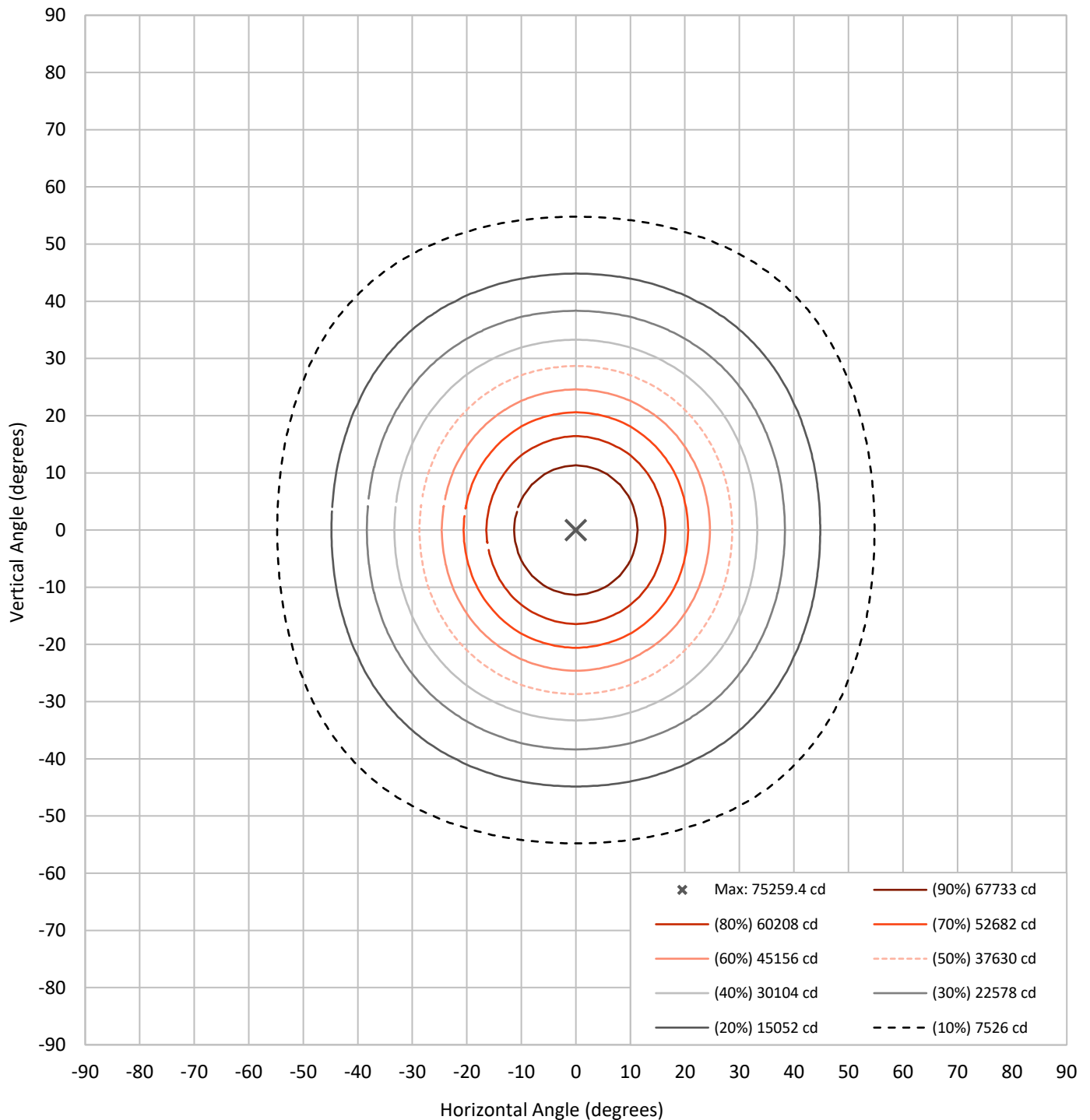
Test Method: LM-79-08
Report Number: P1305388 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)
Test Lab: INNOVATION CENTER
Issue Date: 2/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-08-640L-40-80-7F-HEG-A
Description: EPHEBUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	84915.5 lumens	Max Intensity:	75259.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.4°H x 57.4°V	Field Angle (10%):	109.4°H x 109.4°V
Beam Lumens:	41820.9 lumens	Field Lumens:	77036.7 lumens
Beam Efficiency:	49.2%	Field Efficiency:	90.7%
Input Watts (W):	648		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





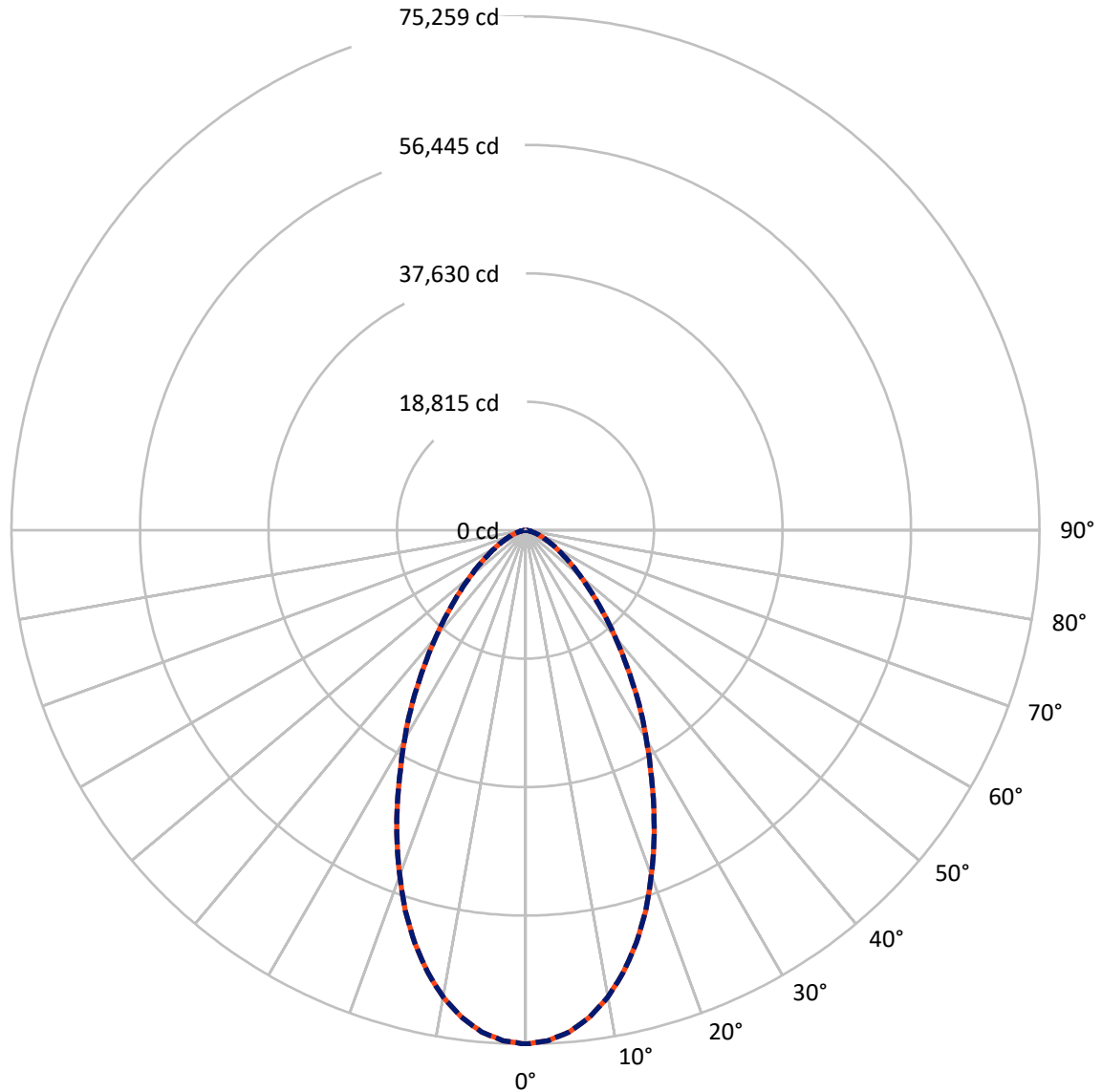
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Lumen Table

90																			
80	1.0	11.5		38.9		71.3		85.5		71.3		38.9		11.5		1.0			
70																			
60	5.5	7.5	18.8	35.5	55.8	76.6	94.1	103.8	103.8	94.1	76.6	55.8	35.5	18.8	7.5	5.5			
50		14.0	35.2	67.6	109.9	157.3	199.9	225.1	225.1	199.9	157.3	109.9	67.6	35.2	14.0				
40	12.9	21.6	55.1	110.9	192.4	292.4	388.6	448.5	448.5	388.6	292.4	192.4	110.9	55.1	21.6	12.9			
30		29.4	77.7	166.7	309.6	499.4	692.6	817.0	817.0	692.6	499.4	309.6	166.7	77.7	29.4				
20	19.5	36.5	100.7	229.5	452.6	766.1	1094.0	1312.5	1312.5	1094.0	766.1	452.6	229.5	100.7	36.5	19.5			
10		42.1	120.3	286.7	589.8	1028.1	1509.5	1834.1	1834.1	1509.5	1028.1	589.8	286.7	120.3	42.1				
0	22.1	45.1	131.4	321.1	675.3	1197.1	1779.8	2159.4	2159.4	1779.8	1197.1	675.3	321.1	131.4	45.1	22.1			
-10		45.1	131.4	321.1	675.3	1197.1	1779.8	2159.4	2159.4	1779.8	1197.1	675.3	321.1	131.4	45.1				
-20	19.5	42.1	120.3	286.7	589.8	1028.1	1509.5	1834.1	1834.1	1509.5	1028.1	589.8	286.7	120.3	42.1	19.5			
-30		36.5	100.7	229.5	452.6	766.1	1094.0	1312.5	1312.5	1094.0	766.1	452.6	229.5	100.7	36.5				
-40	12.9	29.4	77.7	166.7	309.6	499.4	692.6	817.0	817.0	692.6	499.4	309.6	166.7	77.7	29.4	12.9			
-50		21.6	55.1	110.9	192.4	292.4	388.6	448.5	448.5	388.6	292.4	192.4	110.9	55.1	21.6				
-60	5.5	14.0	35.2	67.6	109.9	157.3	199.9	225.1	225.1	199.9	157.3	109.9	67.6	35.2	14.0	5.5			
-70		7.5	18.8	35.5	55.8	76.6	94.1	103.8	103.8	94.1	76.6	55.8	35.5	18.8	7.5				
-80	1.0	11.5		38.9		71.3		85.5		71.3		38.9		11.5		1.0			
-90																			

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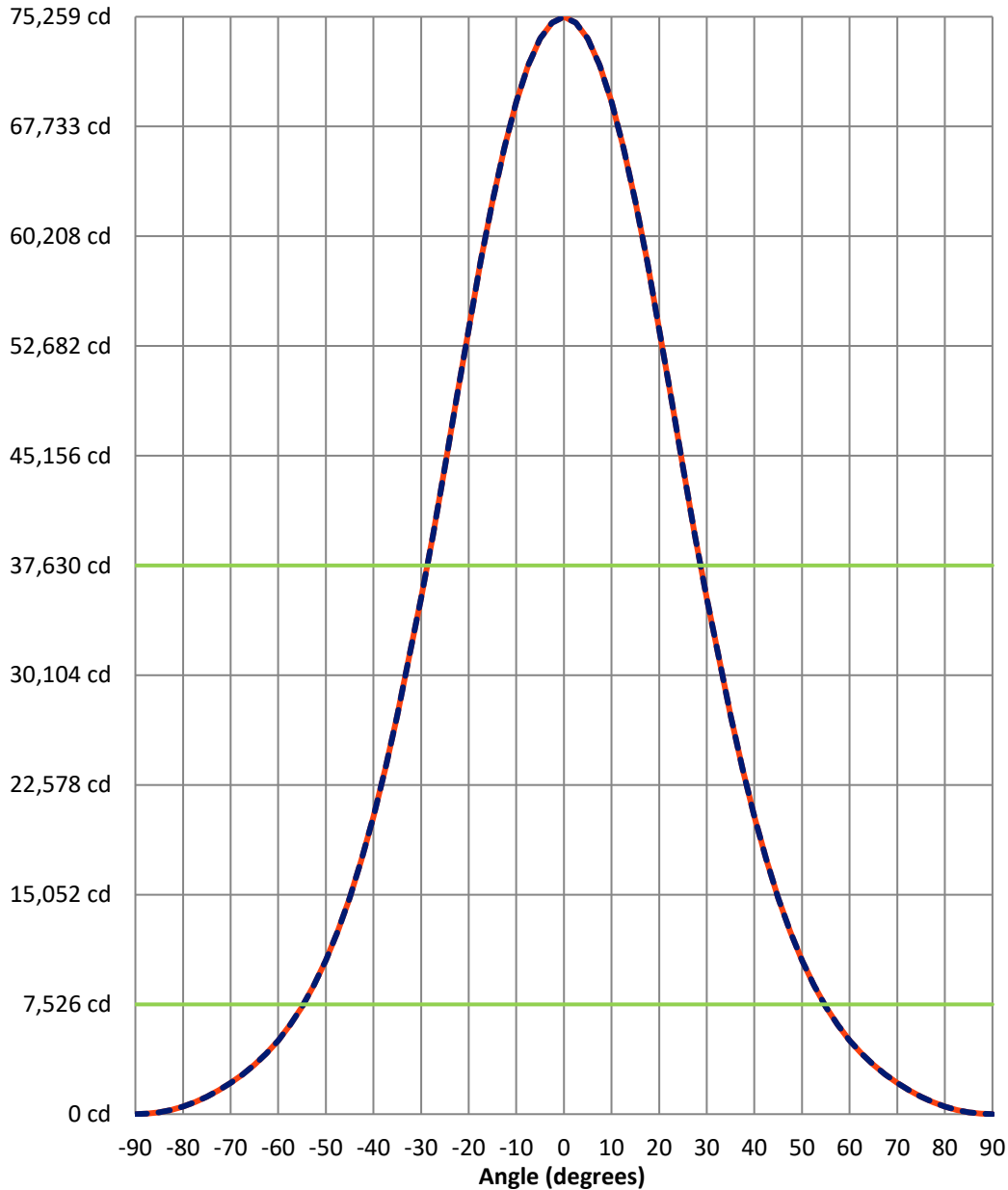
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 57.4°
V Angle: 57.4°
Lumens: 41820.9
Efficiency: 49.2%

Field:
H Angle: 109.4°
V Angle: 109.4°
Lumens: 77036.7
Efficiency: 90.7%

Spill:
Lumens: 7878.8
Efficiency: 9.3%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	1.7	3.3	5.0	6.6	8.3	9.9	11.5	13.1	14.7	16.2
85°	0.0	3.3	6.7	10.0	13.3	16.6	19.8	23.0	26.2	29.3	32.3
82.5°	0.0	5.0	10.0	15.0	19.9	24.8	29.7	34.5	40.3	51.0	61.4
80°	0.0	6.6	13.3	19.9	26.5	33.0	40.9	55.5	69.9	84.0	97.9
77.5°	0.0	8.3	16.6	24.8	33.0	44.8	63.1	81.3	99.2	116.8	141.3
75°	0.0	9.9	19.8	29.7	40.9	63.1	85.1	106.8	130.5	169.1	207.0
72.5°	0.0	11.5	23.0	34.5	55.5	81.3	106.8	137.5	183.0	227.9	272.0
70°	0.0	13.1	26.2	40.3	69.9	99.2	130.5	183.0	234.9	286.7	361.1
67.5°	0.0	14.7	29.3	51.0	84.0	116.8	169.1	227.9	286.7	371.5	455.1
65°	0.0	16.2	32.3	61.4	97.9	141.3	207.0	272.0	361.1	455.1	555.4
62.5°	0.0	17.7	35.3	71.6	111.5	172.4	244.2	330.1	434.3	542.0	672.3
60°	0.0	19.1	38.3	81.6	124.8	202.7	280.6	392.9	505.9	645.4	786.9
57.5°	0.0	20.6	44.7	91.4	148.0	232.4	331.2	454.2	591.8	746.5	916.0
55°	0.0	22.0	51.0	100.9	171.1	261.2	382.5	514.0	679.6	850.0	1049.9
52.5°	0.0	23.3	57.2	110.1	193.5	291.4	432.3	586.8	764.9	967.3	1180.2
50°	0.0	24.6	63.1	119.0	215.2	331.6	480.5	659.2	853.0	1081.2	1329.2
47.5°	0.0	25.9	68.8	129.3	236.1	370.3	528.9	729.0	950.8	1191.3	1476.1
45°	0.0	27.1	74.3	144.3	256.2	407.6	586.5	796.3	1045.0	1318.1	1617.8
42.5°	0.0	28.2	79.6	158.8	275.5	443.3	641.7	869.2	1135.4	1440.3	1770.0
40°	0.0	29.3	84.6	172.5	298.3	477.4	694.4	944.6	1227.3	1557.2	1918.4
37.5°	0.0	30.4	89.4	185.6	324.2	509.8	744.5	1016.3	1325.9	1672.9	2059.9
35°	0.0	31.4	93.9	198.0	348.6	546.1	791.9	1084.2	1419.3	1793.0	2201.2
32.5°	0.0	32.3	98.1	209.6	371.6	583.2	839.5	1148.1	1507.3	1906.3	2345.1
30°	0.0	33.2	102.1	220.4	393.0	617.8	890.4	1210.7	1589.7	2012.4	2480.1
27.5°	0.0	34.0	105.8	230.5	413.0	649.9	937.8	1277.2	1670.1	2111.1	2605.7
25°	0.0	34.7	109.1	239.7	431.3	679.5	981.4	1338.5	1750.4	2210.2	2722.4
22.5°	0.0	35.4	112.2	248.2	448.0	706.4	1021.1	1394.4	1823.6	2304.6	2845.9
20°	0.0	36.0	115.0	255.7	463.0	730.7	1056.9	1444.8	1889.7	2389.8	2957.3
17.5°	0.0	36.5	117.4	262.5	476.3	752.2	1088.7	1489.6	1948.4	2465.6	3056.4
15°	0.0	37.0	119.5	268.3	488.0	771.0	1116.4	1528.6	1999.6	2531.7	3142.9
12.5°	0.0	37.4	121.4	273.3	497.8	786.9	1139.9	1561.8	2043.1	2587.9	3216.6
10°	0.0	37.7	122.8	277.4	505.9	800.0	1159.3	1589.0	2078.9	2634.1	3277.2
7.5°	0.0	38.0	124.0	280.6	512.3	810.2	1174.3	1610.3	2106.8	2670.2	3324.5
5°	0.0	38.2	124.8	282.9	516.8	817.5	1185.1	1625.5	2126.8	2696.1	3358.4
2.5°	0.0	38.3	125.3	284.2	519.5	821.9	1191.6	1634.6	2138.8	2711.6	3378.8
0°	0.0	38.3	125.5	284.7	520.4	823.4	1193.8	1637.7	2142.8	2716.8	3385.6
-2.5°	0.0	38.3	125.3	284.2	519.5	821.9	1191.6	1634.6	2138.8	2711.6	3378.8
-5°	0.0	38.2	124.8	282.9	516.8	817.5	1185.1	1625.5	2126.8	2696.1	3358.4
-7.5°	0.0	38.0	124.0	280.6	512.3	810.2	1174.3	1610.3	2106.8	2670.2	3324.5
-10°	0.0	37.7	122.8	277.4	505.9	800.0	1159.3	1589.0	2078.9	2634.1	3277.2
-12.5°	0.0	37.4	121.4	273.3	497.8	786.9	1139.9	1561.8	2043.1	2587.9	3216.6
-15°	0.0	37.0	119.5	268.3	488.0	771.0	1116.4	1528.6	1999.6	2531.7	3142.9
-17.5°	0.0	36.5	117.4	262.5	476.3	752.2	1088.7	1489.6	1948.4	2465.6	3056.4
-20°	0.0	36.0	115.0	255.7	463.0	730.7	1056.9	1444.8	1889.7	2389.8	2957.3



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 CATALOG NUMBER: EPH-08-640L-40-80-7F-HEG-A

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	35.4	112.2	248.2	448.0	706.4	1021.1	1394.4	1823.6	2304.6	2845.9
-25°	0.0	34.7	109.1	239.7	431.3	679.5	981.4	1338.5	1750.4	2210.2	2722.4
-27.5°	0.0	34.0	105.8	230.5	413.0	649.9	937.8	1277.2	1670.1	2111.1	2605.7
-30°	0.0	33.2	102.1	220.4	393.0	617.8	890.4	1210.7	1589.7	2012.4	2480.1
-32.5°	0.0	32.3	98.1	209.6	371.6	583.2	839.5	1148.1	1507.3	1906.3	2345.1
-35°	0.0	31.4	93.9	198.0	348.6	546.1	791.9	1084.2	1419.3	1793.0	2201.2
-37.5°	0.0	30.4	89.4	185.6	324.2	509.8	744.5	1016.3	1325.9	1672.9	2059.9
-40°	0.0	29.3	84.6	172.5	298.3	477.4	694.4	944.6	1227.3	1557.2	1918.4
-42.5°	0.0	28.2	79.6	158.8	275.5	443.3	641.7	869.2	1135.4	1440.3	1770.0
-45°	0.0	27.1	74.3	144.3	256.2	407.6	586.5	796.3	1045.0	1318.1	1617.8
-47.5°	0.0	25.9	68.8	129.3	236.1	370.3	528.9	729.0	950.8	1191.3	1476.1
-50°	0.0	24.6	63.1	119.0	215.2	331.6	480.5	659.2	853.0	1081.2	1329.2
-52.5°	0.0	23.3	57.2	110.1	193.5	291.4	432.3	586.8	764.9	967.3	1180.2
-55°	0.0	22.0	51.0	100.9	171.1	261.2	382.5	514.0	679.6	850.0	1049.9
-57.5°	0.0	20.6	44.7	91.4	148.0	232.4	331.2	454.2	591.8	746.5	916.0
-60°	0.0	19.1	38.3	81.6	124.8	202.7	280.6	392.9	505.9	645.4	786.9
-62.5°	0.0	17.7	35.3	71.6	111.5	172.4	244.2	330.1	434.3	542.0	672.3
-65°	0.0	16.2	32.3	61.4	97.9	141.3	207.0	272.0	361.1	455.1	555.4
-67.5°	0.0	14.7	29.3	51.0	84.0	116.8	169.1	227.9	286.7	371.5	455.1
-70°	0.0	13.1	26.2	40.3	69.9	99.2	130.5	183.0	234.9	286.7	361.1
-72.5°	0.0	11.5	23.0	34.5	55.5	81.3	106.8	137.5	183.0	227.9	272.0
-75°	0.0	9.9	19.8	29.7	40.9	63.1	85.1	106.8	130.5	169.1	207.0
-77.5°	0.0	8.3	16.6	24.8	33.0	44.8	63.1	81.3	99.2	116.8	141.3
-80°	0.0	6.6	13.3	19.9	26.5	33.0	40.9	55.5	69.9	84.0	97.9
-82.5°	0.0	5.0	10.0	15.0	19.9	24.8	29.7	34.5	40.3	51.0	61.4
-85°	0.0	3.3	6.7	10.0	13.3	16.6	19.8	23.0	26.2	29.3	32.3
-87.5°	0.0	1.7	3.3	5.0	6.6	8.3	9.9	11.5	13.1	14.7	16.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-08-640L-40-80-7F-HEG-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	19.1	20.6	22.0	23.3	24.6	25.9	27.1	28.2	29.3	30.4
85°	35.3	38.3	44.7	51.0	57.2	63.1	68.8	74.3	79.6	84.6	89.4
82.5°	71.6	81.6	91.4	100.9	110.1	119.0	129.3	144.3	158.8	172.5	185.6
80°	111.5	124.8	148.0	171.1	193.5	215.2	236.1	256.2	275.5	298.3	324.2
77.5°	172.4	202.7	232.4	261.2	291.4	331.6	370.3	407.6	443.3	477.4	509.8
75°	244.2	280.6	331.2	382.5	432.3	480.5	528.9	586.5	641.7	694.4	744.5
72.5°	330.1	392.9	454.2	514.0	586.8	659.2	729.0	796.3	869.2	944.6	1016.3
70°	434.3	505.9	591.8	679.6	764.9	853.0	950.8	1045.0	1135.4	1227.3	1325.9
67.5°	542.0	645.4	746.5	850.0	967.3	1081.2	1191.3	1318.1	1440.3	1557.2	1672.9
65°	672.3	786.9	916.0	1049.9	1180.2	1329.2	1476.1	1617.8	1770.0	1918.4	2059.9
62.5°	800.4	949.1	1099.7	1257.4	1429.2	1596.1	1774.5	1952.2	2123.3	2307.0	2484.8
60°	949.1	1116.4	1297.5	1489.6	1682.3	1889.7	2090.8	2304.6	2517.4	2722.4	2949.7
57.5°	1099.7	1297.5	1509.8	1728.6	1959.4	2189.7	2437.7	2677.6	2940.7	3199.7	3457.0
55°	1257.4	1489.6	1728.6	1982.7	2243.1	2518.1	2796.8	3098.7	3390.8	3714.7	4025.0
52.5°	1429.2	1682.3	1959.4	2243.1	2545.1	2860.1	3194.3	3539.2	3901.4	4264.1	4649.1
50°	1596.1	1889.7	2189.7	2518.1	2860.1	3226.3	3613.8	4014.4	4439.0	4869.5	5333.5
47.5°	1774.5	2090.8	2437.7	2796.8	3194.3	3613.8	4052.3	4527.1	5003.1	5552.2	6089.7
45°	1952.2	2304.6	2677.6	3098.7	3539.2	4014.4	4527.1	5047.8	5662.3	6275.3	6929.7
42.5°	2123.3	2517.4	2940.7	3390.8	3901.4	4439.0	5003.1	5662.3	6339.4	7059.8	7836.5
40°	2307.0	2722.4	3199.7	3714.7	4264.1	4869.5	5552.2	6275.3	7059.8	7916.6	8806.0
37.5°	2484.8	2949.7	3457.0	4025.0	4649.1	5333.5	6089.7	6929.7	7836.5	8806.0	9874.5
35°	2653.6	3165.8	3729.4	4345.0	5016.5	5813.7	6671.8	7597.8	8643.1	9779.1	10974.5
32.5°	2829.0	3370.0	3987.3	4667.4	5433.4	6290.3	7231.4	8320.2	9495.0	10746.6	12143.0
30°	3003.3	3589.3	4240.5	4971.0	5833.0	6782.6	7843.1	9027.4	10332.6	11794.3	13361.8
27.5°	3165.8	3796.1	4501.0	5299.3	6218.3	7244.2	8443.0	9764.4	11221.2	12819.9	14571.9
25°	3315.8	3987.3	4742.2	5618.9	6614.7	7737.5	9023.5	10452.1	12087.3	13882.4	15854.0
22.5°	3463.5	4162.9	4963.2	5912.2	6978.8	8213.7	9612.1	11179.5	12938.6	14875.8	17085.0
20°	3606.8	4345.0	5188.1	6185.0	7309.3	8646.5	10148.0	11858.4	13776.7	15926.1	18294.9
17.5°	3734.3	4507.3	5404.8	6455.8	7654.6	9060.2	10641.7	12468.1	14530.8	16873.5	19426.4
15°	3845.7	4649.1	5594.4	6692.9	7966.9	9448.8	11136.6	13071.3	15257.1	17736.8	20433.4
12.5°	3940.6	4770.0	5756.2	6895.4	8233.8	9781.3	11560.6	13598.1	15922.1	18534.9	21410.4
10°	4018.7	4869.5	5889.4	7062.4	8454.0	10056.0	11911.2	14034.4	16473.6	19198.1	22223.9
7.5°	4079.7	4947.3	5993.7	7193.0	8626.4	10271.3	12186.2	14377.0	16907.4	19720.5	22865.9
5°	4123.4	5003.1	6068.4	7286.7	8750.3	10425.9	12384.0	14623.6	17219.8	20097.2	23329.7
2.5°	4149.7	5036.6	6113.4	7343.2	8824.8	10519.1	12503.2	14772.3	17408.4	20324.8	23610.1
0°	4158.5	5047.8	6128.4	7362.0	8849.7	10550.2	12543.0	14822.0	17471.4	20400.9	23703.9
-2.5°	4149.7	5036.6	6113.4	7343.2	8824.8	10519.1	12503.2	14772.3	17408.4	20324.8	23610.1
-5°	4123.4	5003.1	6068.4	7286.7	8750.3	10425.9	12384.0	14623.6	17219.8	20097.2	23329.7
-7.5°	4079.7	4947.3	5993.7	7193.0	8626.4	10271.3	12186.2	14377.0	16907.4	19720.5	22865.9
-10°	4018.7	4869.5	5889.4	7062.4	8454.0	10056.0	11911.2	14034.4	16473.6	19198.1	22223.9
-12.5°	3940.6	4770.0	5756.2	6895.4	8233.8	9781.3	11560.6	13598.1	15922.1	18534.9	21410.4
-15°	3845.7	4649.1	5594.4	6692.9	7966.9	9448.8	11136.6	13071.3	15257.1	17736.8	20433.4
-17.5°	3734.3	4507.3	5404.8	6455.8	7654.6	9060.2	10641.7	12468.1	14530.8	16873.5	19426.4
-20°	3606.8	4345.0	5188.1	6185.0	7309.3	8646.5	10148.0	11858.4	13776.7	15926.1	18294.9



REPORT NUMBER: P1305388 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-7F-HEG-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	3463.5	4162.9	4963.2	5912.2	6978.8	8213.7	9612.1	11179.5	12938.6	14875.8	17085.0
-25°	3315.8	3987.3	4742.2	5618.9	6614.7	7737.5	9023.5	10452.1	12087.3	13882.4	15854.0
-27.5°	3165.8	3796.1	4501.0	5299.3	6218.3	7244.2	8443.0	9764.4	11221.2	12819.9	14571.9
-30°	3003.3	3589.3	4240.5	4971.0	5833.0	6782.6	7843.1	9027.4	10332.6	11794.3	13361.8
-32.5°	2829.0	3370.0	3987.3	4667.4	5433.4	6290.3	7231.4	8320.2	9495.0	10746.6	12143.0
-35°	2653.6	3165.8	3729.4	4345.0	5016.5	5813.7	6671.8	7597.8	8643.1	9779.1	10974.5
-37.5°	2484.8	2949.7	3457.0	4025.0	4649.1	5333.5	6089.7	6929.7	7836.5	8806.0	9874.5
-40°	2307.0	2722.4	3199.7	3714.7	4264.1	4869.5	5552.2	6275.3	7059.8	7916.6	8806.0
-42.5°	2123.3	2517.4	2940.7	3390.8	3901.4	4439.0	5003.1	5662.3	6339.4	7059.8	7836.5
-45°	1952.2	2304.6	2677.6	3098.7	3539.2	4014.4	4527.1	5047.8	5662.3	6275.3	6929.7
-47.5°	1774.5	2090.8	2437.7	2796.8	3194.3	3613.8	4052.3	4527.1	5003.1	5552.2	6089.7
-50°	1596.1	1889.7	2189.7	2518.1	2860.1	3226.3	3613.8	4014.4	4439.0	4869.5	5333.5
-52.5°	1429.2	1682.3	1959.4	2243.1	2545.1	2860.1	3194.3	3539.2	3901.4	4264.1	4649.1
-55°	1257.4	1489.6	1728.6	1982.7	2243.1	2518.1	2796.8	3098.7	3390.8	3714.7	4025.0
-57.5°	1099.7	1297.5	1509.8	1728.6	1959.4	2189.7	2437.7	2677.6	2940.7	3199.7	3457.0
-60°	949.1	1116.4	1297.5	1489.6	1682.3	1889.7	2090.8	2304.6	2517.4	2722.4	2949.7
-62.5°	800.4	949.1	1099.7	1257.4	1429.2	1596.1	1774.5	1952.2	2123.3	2307.0	2484.8
-65°	672.3	786.9	916.0	1049.9	1180.2	1329.2	1476.1	1617.8	1770.0	1918.4	2059.9
-67.5°	542.0	645.4	746.5	850.0	967.3	1081.2	1191.3	1318.1	1440.3	1557.2	1672.9
-70°	434.3	505.9	591.8	679.6	764.9	853.0	950.8	1045.0	1135.4	1227.3	1325.9
-72.5°	330.1	392.9	454.2	514.0	586.8	659.2	729.0	796.3	869.2	944.6	1016.3
-75°	244.2	280.6	331.2	382.5	432.3	480.5	528.9	586.5	641.7	694.4	744.5
-77.5°	172.4	202.7	232.4	261.2	291.4	331.6	370.3	407.6	443.3	477.4	509.8
-80°	111.5	124.8	148.0	171.1	193.5	215.2	236.1	256.2	275.5	298.3	324.2
-82.5°	71.6	81.6	91.4	100.9	110.1	119.0	129.3	144.3	158.8	172.5	185.6
-85°	35.3	38.3	44.7	51.0	57.2	63.1	68.8	74.3	79.6	84.6	89.4
-87.5°	17.7	19.1	20.6	22.0	23.3	24.6	25.9	27.1	28.2	29.3	30.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.4	32.3	33.2	34.0	34.7	35.4	36.0	36.5	37.0	37.4	37.7
85°	93.9	98.1	102.1	105.8	109.1	112.2	115.0	117.4	119.5	121.4	122.8
82.5°	198.0	209.6	220.4	230.5	239.7	248.2	255.7	262.5	268.3	273.3	277.4
80°	348.6	371.6	393.0	413.0	431.3	448.0	463.0	476.3	488.0	497.8	505.9
77.5°	546.1	583.2	617.8	649.9	679.5	706.4	730.7	752.2	771.0	786.9	800.0
75°	791.9	839.5	890.4	937.8	981.4	1021.1	1056.9	1088.7	1116.4	1139.9	1159.3
72.5°	1084.2	1148.1	1210.7	1277.2	1338.5	1394.4	1444.8	1489.6	1528.6	1561.8	1589.0
70°	1419.3	1507.3	1589.7	1670.1	1750.4	1823.6	1889.7	1948.4	1999.6	2043.1	2078.9
67.5°	1793.0	1906.3	2012.4	2111.1	2210.2	2304.6	2389.8	2465.6	2531.7	2587.9	2634.1
65°	2201.2	2345.1	2480.1	2605.7	2722.4	2845.9	2957.3	3056.4	3142.9	3216.6	3277.2
62.5°	2653.6	2829.0	3003.3	3165.8	3315.8	3463.5	3606.8	3734.3	3845.7	3940.6	4018.7
60°	3165.8	3370.0	3589.3	3796.1	3987.3	4162.9	4345.0	4507.3	4649.1	4770.0	4869.5
57.5°	3729.4	3987.3	4240.5	4501.0	4742.2	4963.2	5188.1	5404.8	5594.4	5756.2	5889.4
55°	4345.0	4667.4	4971.0	5299.3	5618.9	5912.2	6185.0	6455.8	6692.9	6895.4	7062.4
52.5°	5016.5	5433.4	5833.0	6218.3	6614.7	6978.8	7309.3	7654.6	7966.9	8233.8	8454.0
50°	5813.7	6290.3	6782.6	7244.2	7737.5	8213.7	8646.5	9060.2	9448.8	9781.3	10056.0
47.5°	6671.8	7231.4	7843.1	8443.0	9023.5	9612.1	10148.0	10641.7	11136.6	11560.6	11911.2
45°	7597.8	8320.2	9027.4	9764.4	10452.1	11179.5	11858.4	12468.1	13071.3	13598.1	14034.4
42.5°	8643.1	9495.0	10332.6	11221.2	12087.3	12938.6	13776.7	14530.8	15257.1	15922.1	16473.6
40°	9779.1	10746.6	11794.3	12819.9	13882.4	14875.8	15926.1	16873.5	17736.8	18534.9	19198.1
37.5°	10974.5	12143.0	13361.8	14571.9	15854.0	17085.0	18294.9	19426.4	20433.4	21410.4	22223.9
35°	12260.1	13635.7	15019.8	16519.6	17983.0	19443.2	20838.9	22216.5	23441.7	24585.5	25563.1
32.5°	13635.7	15183.9	16856.5	18556.3	20226.5	21968.7	23601.4	25231.8	26696.7	28035.0	29213.0
30°	15019.8	16856.5	18749.1	20652.2	22660.3	24636.7	26573.6	28449.8	30204.6	31734.7	33017.1
27.5°	16519.6	18556.3	20652.2	22893.2	25168.3	27402.7	29701.8	31813.9	33710.8	35374.7	36887.7
25°	17983.0	20226.5	22660.3	25168.3	27709.7	30340.0	32803.2	35077.2	37273.4	39232.1	40998.9
22.5°	19443.2	21968.7	24636.7	27402.7	30340.0	33137.7	35806.5	38451.3	40965.7	43295.5	45310.3
20°	20838.9	23601.4	26573.6	29701.8	32803.2	35806.5	38850.8	41877.9	44739.3	47356.4	49603.6
17.5°	22216.5	25231.8	28449.8	31813.9	35077.2	38451.3	41877.9	45239.5	48417.2	51233.1	53673.3
15°	23441.7	26696.7	30204.6	33710.8	37273.4	40965.7	44739.3	48417.2	51792.0	54872.8	57608.6
12.5°	24585.5	28035.0	31734.7	35374.7	39232.1	43295.5	47356.4	51233.1	54872.8	58273.0	61015.6
10°	25563.1	29213.0	33017.1	36887.7	40998.9	45310.3	49603.6	53673.3	57608.6	61015.6	64006.2
7.5°	26336.4	30147.4	34037.8	38097.4	42450.6	46960.0	51391.9	55692.3	59739.0	63311.0	66311.8
5°	26896.0	30825.0	34780.0	38980.2	43514.6	48176.3	52720.5	57208.5	61287.2	64967.5	68036.3
2.5°	27234.7	31235.8	35230.9	39517.8	44164.6	48922.4	53540.4	58151.7	62262.0	65955.2	69068.1
0°	27348.1	31373.5	35382.1	39698.3	44383.3	49174.0	53817.7	58472.2	62595.5	66281.2	69423.4
-2.5°	27234.7	31235.8	35230.9	39517.8	44164.6	48922.4	53540.4	58151.7	62262.0	65955.2	69068.1
-5°	26896.0	30825.0	34780.0	38980.2	43514.6	48176.3	52720.5	57208.5	61287.2	64967.5	68036.3
-7.5°	26336.4	30147.4	34037.8	38097.4	42450.6	46960.0	51391.9	55692.3	59739.0	63311.0	66311.8
-10°	25563.1	29213.0	33017.1	36887.7	40998.9	45310.3	49603.6	53673.3	57608.6	61015.6	64006.2
-12.5°	24585.5	28035.0	31734.7	35374.7	39232.1	43295.5	47356.4	51233.1	54872.8	58273.0	61015.6
-15°	23441.7	26696.7	30204.6	33710.8	37273.4	40965.7	44739.3	48417.2	51792.0	54872.8	57608.6
-17.5°	22216.5	25231.8	28449.8	31813.9	35077.2	38451.3	41877.9	45239.5	48417.2	51233.1	53673.3
-20°	20838.9	23601.4	26573.6	29701.8	32803.2	35806.5	38850.8	41877.9	44739.3	47356.4	49603.6



REPORT NUMBER: P1305388 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-7F-HEG-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	19443.2	21968.7	24636.7	27402.7	30340.0	33137.7	35806.5	38451.3	40965.7	43295.5	45310.3
-25°	17983.0	20226.5	22660.3	25168.3	27709.7	30340.0	32803.2	35077.2	37273.4	39232.1	40998.9
-27.5°	16519.6	18556.3	20652.2	22893.2	25168.3	27402.7	29701.8	31813.9	33710.8	35374.7	36887.7
-30°	15019.8	16856.5	18749.1	20652.2	22660.3	24636.7	26573.6	28449.8	30204.6	31734.7	33017.1
-32.5°	13635.7	15183.9	16856.5	18556.3	20226.5	21968.7	23601.4	25231.8	26696.7	28035.0	29213.0
-35°	12260.1	13635.7	15019.8	16519.6	17983.0	19443.2	20838.9	22216.5	23441.7	24585.5	25563.1
-37.5°	10974.5	12143.0	13361.8	14571.9	15854.0	17085.0	18294.9	19426.4	20433.4	21410.4	22223.9
-40°	9779.1	10746.6	11794.3	12819.9	13882.4	14875.8	15926.1	16873.5	17736.8	18534.9	19198.1
-42.5°	8643.1	9495.0	10332.6	11221.2	12087.3	12938.6	13776.7	14530.8	15257.1	15922.1	16473.6
-45°	7597.8	8320.2	9027.4	9764.4	10452.1	11179.5	11858.4	12468.1	13071.3	13598.1	14034.4
-47.5°	6671.8	7231.4	7843.1	8443.0	9023.5	9612.1	10148.0	10641.7	11136.6	11560.6	11911.2
-50°	5813.7	6290.3	6782.6	7244.2	7737.5	8213.7	8646.5	9060.2	9448.8	9781.3	10056.0
-52.5°	5016.5	5433.4	5833.0	6218.3	6614.7	6978.8	7309.3	7654.6	7966.9	8233.8	8454.0
-55°	4345.0	4667.4	4971.0	5299.3	5618.9	5912.2	6185.0	6455.8	6692.9	6895.4	7062.4
-57.5°	3729.4	3987.3	4240.5	4501.0	4742.2	4963.2	5188.1	5404.8	5594.4	5756.2	5889.4
-60°	3165.8	3370.0	3589.3	3796.1	3987.3	4162.9	4345.0	4507.3	4649.1	4770.0	4869.5
-62.5°	2653.6	2829.0	3003.3	3165.8	3315.8	3463.5	3606.8	3734.3	3845.7	3940.6	4018.7
-65°	2201.2	2345.1	2480.1	2605.7	2722.4	2845.9	2957.3	3056.4	3142.9	3216.6	3277.2
-67.5°	1793.0	1906.3	2012.4	2111.1	2210.2	2304.6	2389.8	2465.6	2531.7	2587.9	2634.1
-70°	1419.3	1507.3	1589.7	1670.1	1750.4	1823.6	1889.7	1948.4	1999.6	2043.1	2078.9
-72.5°	1084.2	1148.1	1210.7	1277.2	1338.5	1394.4	1444.8	1489.6	1528.6	1561.8	1589.0
-75°	791.9	839.5	890.4	937.8	981.4	1021.1	1056.9	1088.7	1116.4	1139.9	1159.3
-77.5°	546.1	583.2	617.8	649.9	679.5	706.4	730.7	752.2	771.0	786.9	800.0
-80°	348.6	371.6	393.0	413.0	431.3	448.0	463.0	476.3	488.0	497.8	505.9
-82.5°	198.0	209.6	220.4	230.5	239.7	248.2	255.7	262.5	268.3	273.3	277.4
-85°	93.9	98.1	102.1	105.8	109.1	112.2	115.0	117.4	119.5	121.4	122.8
-87.5°	31.4	32.3	33.2	34.0	34.7	35.4	36.0	36.5	37.0	37.4	37.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1305388 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-7F-HEG-A

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.0	38.2	38.3	38.3	38.3	38.2	38.0	37.7	37.4	37.0	36.5
85°	124.0	124.8	125.3	125.5	125.3	124.8	124.0	122.8	121.4	119.5	117.4
82.5°	280.6	282.9	284.2	284.7	284.2	282.9	280.6	277.4	273.3	268.3	262.5
80°	512.3	516.8	519.5	520.4	519.5	516.8	512.3	505.9	497.8	488.0	476.3
77.5°	810.2	817.5	821.9	823.4	821.9	817.5	810.2	800.0	786.9	771.0	752.2
75°	1174.3	1185.1	1191.6	1193.8	1191.6	1185.1	1174.3	1159.3	1139.9	1116.4	1088.7
72.5°	1610.3	1625.5	1634.6	1637.7	1634.6	1625.5	1610.3	1589.0	1561.8	1528.6	1489.6
70°	2106.8	2126.8	2138.8	2142.8	2138.8	2126.8	2106.8	2078.9	2043.1	1999.6	1948.4
67.5°	2670.2	2696.1	2711.6	2716.8	2711.6	2696.1	2670.2	2634.1	2587.9	2531.7	2465.6
65°	3324.5	3358.4	3378.8	3385.6	3378.8	3358.4	3324.5	3277.2	3216.6	3142.9	3056.4
62.5°	4079.7	4123.4	4149.7	4158.5	4149.7	4123.4	4079.7	4018.7	3940.6	3845.7	3734.3
60°	4947.3	5003.1	5036.6	5047.8	5036.6	5003.1	4947.3	4869.5	4770.0	4649.1	4507.3
57.5°	5993.7	6068.4	6113.4	6128.4	6113.4	6068.4	5993.7	5889.4	5756.2	5594.4	5404.8
55°	7193.0	7286.7	7343.2	7362.0	7343.2	7286.7	7193.0	7062.4	6895.4	6692.9	6455.8
52.5°	8626.4	8750.3	8824.8	8849.7	8824.8	8750.3	8626.4	8454.0	8233.8	7966.9	7654.6
50°	10271.3	10425.9	10519.1	10550.2	10519.1	10425.9	10271.3	10056.0	9781.3	9448.8	9060.2
47.5°	12186.2	12384.0	12503.2	12543.0	12503.2	12384.0	12186.2	11911.2	11560.6	11136.6	10641.7
45°	14377.0	14623.6	14772.3	14822.0	14772.3	14623.6	14377.0	14034.4	13598.1	13071.3	12468.1
42.5°	16907.4	17219.8	17408.4	17471.4	17408.4	17219.8	16907.4	16473.6	15922.1	15257.1	14530.8
40°	19720.5	20097.2	20324.8	20400.9	20324.8	20097.2	19720.5	19198.1	18534.9	17736.8	16873.5
37.5°	22865.9	23329.7	23610.1	23703.9	23610.1	23329.7	22865.9	22223.9	21410.4	20433.4	19426.4
35°	26336.4	26896.0	27234.7	27348.1	27234.7	26896.0	26336.4	25563.1	24585.5	23441.7	22216.5
32.5°	30147.4	30825.0	31235.8	31373.5	31235.8	30825.0	30147.4	29213.0	28035.0	26696.7	25231.8
30°	34037.8	34780.0	35230.9	35382.1	35230.9	34780.0	34037.8	33017.1	31734.7	30204.6	28449.8
27.5°	38097.4	38980.2	39517.8	39698.3	39517.8	38980.2	38097.4	36887.7	35374.7	33710.8	31813.9
25°	42450.6	43514.6	44164.6	44383.3	44164.6	43514.6	42450.6	40998.9	39232.1	37273.4	35077.2
22.5°	46960.0	48176.3	48922.4	49174.0	48922.4	48176.3	46960.0	45310.3	43295.5	40965.7	38451.3
20°	51391.9	52720.5	53540.4	53817.7	53540.4	52720.5	51391.9	49603.6	47356.4	44739.3	41877.9
17.5°	55692.3	57208.5	58151.7	58472.2	58151.7	57208.5	55692.3	53673.3	51233.1	48417.2	45239.5
15°	59739.0	61287.2	62262.0	62595.5	62262.0	61287.2	59739.0	57608.6	54872.8	51792.0	48417.2
12.5°	63311.0	64967.5	65955.2	66281.2	65955.2	64967.5	63311.0	61015.6	58273.0	54872.8	51233.1
10°	66311.8	68036.3	69068.1	69423.4	69068.1	68036.3	66311.8	64006.2	61015.6	57608.6	53673.3
7.5°	68733.6	70489.9	71581.4	71932.8	71581.4	70489.9	68733.6	66311.8	63311.0	59739.0	55692.3
5°	70489.9	72310.2	73366.9	73757.9	73366.9	72310.2	70489.9	68036.3	64967.5	61287.2	57208.5
2.5°	71581.4	73366.9	74467.2	74840.8	74467.2	73366.9	71581.4	69068.1	65955.2	62262.0	58151.7
0°	71932.8	73757.9	74840.8	75259.4	74840.8	73757.9	71932.8	69423.4	66281.2	62595.5	58472.2
-2.5°	71581.4	73366.9	74467.2	74840.8	74467.2	73366.9	71581.4	69068.1	65955.2	62262.0	58151.7
-5°	70489.9	72310.2	73366.9	73757.9	73366.9	72310.2	70489.9	68036.3	64967.5	61287.2	57208.5
-7.5°	68733.6	70489.9	71581.4	71932.8	71581.4	70489.9	68733.6	66311.8	63311.0	59739.0	55692.3
-10°	66311.8	68036.3	69068.1	69423.4	69068.1	68036.3	66311.8	64006.2	61015.6	57608.6	53673.3
-12.5°	63311.0	64967.5	65955.2	66281.2	65955.2	64967.5	63311.0	61015.6	58273.0	54872.8	51233.1
-15°	59739.0	61287.2	62262.0	62595.5	62262.0	61287.2	59739.0	57608.6	54872.8	51792.0	48417.2
-17.5°	55692.3	57208.5	58151.7	58472.2	58151.7	57208.5	55692.3	53673.3	51233.1	48417.2	45239.5
-20°	51391.9	52720.5	53540.4	53817.7	53540.4	52720.5	51391.9	49603.6	47356.4	44739.3	41877.9



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	46960.0	48176.3	48922.4	49174.0	48922.4	48176.3	46960.0	45310.3	43295.5	40965.7	38451.3
-25°	42450.6	43514.6	44164.6	44383.3	44164.6	43514.6	42450.6	40998.9	39232.1	37273.4	35077.2
-27.5°	38097.4	38980.2	39517.8	39698.3	39517.8	38980.2	38097.4	36887.7	35374.7	33710.8	31813.9
-30°	34037.8	34780.0	35230.9	35382.1	35230.9	34780.0	34037.8	33017.1	31734.7	30204.6	28449.8
-32.5°	30147.4	30825.0	31235.8	31373.5	31235.8	30825.0	30147.4	29213.0	28035.0	26696.7	25231.8
-35°	26336.4	26896.0	27234.7	27348.1	27234.7	26896.0	26336.4	25563.1	24585.5	23441.7	22216.5
-37.5°	22865.9	23329.7	23610.1	23703.9	23610.1	23329.7	22865.9	22223.9	21410.4	20433.4	19426.4
-40°	19720.5	20097.2	20324.8	20400.9	20324.8	20097.2	19720.5	19198.1	18534.9	17736.8	16873.5
-42.5°	16907.4	17219.8	17408.4	17471.4	17408.4	17219.8	16907.4	16473.6	15922.1	15257.1	14530.8
-45°	14377.0	14623.6	14772.3	14822.0	14772.3	14623.6	14377.0	14034.4	13598.1	13071.3	12468.1
-47.5°	12186.2	12384.0	12503.2	12543.0	12503.2	12384.0	12186.2	11911.2	11560.6	11136.6	10641.7
-50°	10271.3	10425.9	10519.1	10550.2	10519.1	10425.9	10271.3	10056.0	9781.3	9448.8	9060.2
-52.5°	8626.4	8750.3	8824.8	8849.7	8824.8	8750.3	8626.4	8454.0	8233.8	7966.9	7654.6
-55°	7193.0	7286.7	7343.2	7362.0	7343.2	7286.7	7193.0	7062.4	6895.4	6692.9	6455.8
-57.5°	5993.7	6068.4	6113.4	6128.4	6113.4	6068.4	5993.7	5889.4	5756.2	5594.4	5404.8
-60°	4947.3	5003.1	5036.6	5047.8	5036.6	5003.1	4947.3	4869.5	4770.0	4649.1	4507.3
-62.5°	4079.7	4123.4	4149.7	4158.5	4149.7	4123.4	4079.7	4018.7	3940.6	3845.7	3734.3
-65°	3324.5	3358.4	3378.8	3385.6	3378.8	3358.4	3324.5	3277.2	3216.6	3142.9	3056.4
-67.5°	2670.2	2696.1	2711.6	2716.8	2711.6	2696.1	2670.2	2634.1	2587.9	2531.7	2465.6
-70°	2106.8	2126.8	2138.8	2142.8	2138.8	2126.8	2106.8	2078.9	2043.1	1999.6	1948.4
-72.5°	1610.3	1625.5	1634.6	1637.7	1634.6	1625.5	1610.3	1589.0	1561.8	1528.6	1489.6
-75°	1174.3	1185.1	1191.6	1193.8	1191.6	1185.1	1174.3	1159.3	1139.9	1116.4	1088.7
-77.5°	810.2	817.5	821.9	823.4	821.9	817.5	810.2	800.0	786.9	771.0	752.2
-80°	512.3	516.8	519.5	520.4	519.5	516.8	512.3	505.9	497.8	488.0	476.3
-82.5°	280.6	282.9	284.2	284.7	284.2	282.9	280.6	277.4	273.3	268.3	262.5
-85°	124.0	124.8	125.3	125.5	125.3	124.8	124.0	122.8	121.4	119.5	117.4
-87.5°	38.0	38.2	38.3	38.3	38.3	38.2	38.0	37.7	37.4	37.0	36.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.0	35.4	34.7	34.0	33.2	32.3	31.4	30.4	29.3	28.2	27.1
85°	115.0	112.2	109.1	105.8	102.1	98.1	93.9	89.4	84.6	79.6	74.3
82.5°	255.7	248.2	239.7	230.5	220.4	209.6	198.0	185.6	172.5	158.8	144.3
80°	463.0	448.0	431.3	413.0	393.0	371.6	348.6	324.2	298.3	275.5	256.2
77.5°	730.7	706.4	679.5	649.9	617.8	583.2	546.1	509.8	477.4	443.3	407.6
75°	1056.9	1021.1	981.4	937.8	890.4	839.5	791.9	744.5	694.4	641.7	586.5
72.5°	1444.8	1394.4	1338.5	1277.2	1210.7	1148.1	1084.2	1016.3	944.6	869.2	796.3
70°	1889.7	1823.6	1750.4	1670.1	1589.7	1507.3	1419.3	1325.9	1227.3	1135.4	1045.0
67.5°	2389.8	2304.6	2210.2	2111.1	2012.4	1906.3	1793.0	1672.9	1557.2	1440.3	1318.1
65°	2957.3	2845.9	2722.4	2605.7	2480.1	2345.1	2201.2	2059.9	1918.4	1770.0	1617.8
62.5°	3606.8	3463.5	3315.8	3165.8	3003.3	2829.0	2653.6	2484.8	2307.0	2123.3	1952.2
60°	4345.0	4162.9	3987.3	3796.1	3589.3	3370.0	3165.8	2949.7	2722.4	2517.4	2304.6
57.5°	5188.1	4963.2	4742.2	4501.0	4240.5	3987.3	3729.4	3457.0	3199.7	2940.7	2677.6
55°	6185.0	5912.2	5618.9	5299.3	4971.0	4667.4	4345.0	4025.0	3714.7	3390.8	3098.7
52.5°	7309.3	6978.8	6614.7	6218.3	5833.0	5433.4	5016.5	4649.1	4264.1	3901.4	3539.2
50°	8646.5	8213.7	7737.5	7244.2	6782.6	6290.3	5813.7	5333.5	4869.5	4439.0	4014.4
47.5°	10148.0	9612.1	9023.5	8443.0	7843.1	7231.4	6671.8	6089.7	5552.2	5003.1	4527.1
45°	11858.4	11179.5	10452.1	9764.4	9027.4	8320.2	7597.8	6929.7	6275.3	5662.3	5047.8
42.5°	13776.7	12938.6	12087.3	11221.2	10332.6	9495.0	8643.1	7836.5	7059.8	6339.4	5662.3
40°	15926.1	14875.8	13882.4	12819.9	11794.3	10746.6	9779.1	8806.0	7916.6	7059.8	6275.3
37.5°	18294.9	17085.0	15854.0	14571.9	13361.8	12143.0	10974.5	9874.5	8806.0	7836.5	6929.7
35°	20838.9	19443.2	17983.0	16519.6	15019.8	13635.7	12260.1	10974.5	9779.1	8643.1	7597.8
32.5°	23601.4	21968.7	20226.5	18556.3	16856.5	15183.9	13635.7	12143.0	10746.6	9495.0	8320.2
30°	26573.6	24636.7	22660.3	20652.2	18749.1	16856.5	15019.8	13361.8	11794.3	10332.6	9027.4
27.5°	29701.8	27402.7	25168.3	22893.2	20652.2	18556.3	16519.6	14571.9	12819.9	11221.2	9764.4
25°	32803.2	30340.0	27709.7	25168.3	22660.3	20226.5	17983.0	15854.0	13882.4	12087.3	10452.1
22.5°	35806.5	33137.7	30340.0	27402.7	24636.7	21968.7	19443.2	17085.0	14875.8	12938.6	11179.5
20°	38850.8	35806.5	32803.2	29701.8	26573.6	23601.4	20838.9	18294.9	15926.1	13776.7	11858.4
17.5°	41877.9	38451.3	35077.2	31813.9	28449.8	25231.8	22216.5	19426.4	16873.5	14530.8	12468.1
15°	44739.3	40965.7	37273.4	33710.8	30204.6	26696.7	23441.7	20433.4	17736.8	15257.1	13071.3
12.5°	47356.4	43295.5	39232.1	35374.7	31734.7	28035.0	24585.5	21410.4	18534.9	15922.1	13598.1
10°	49603.6	45310.3	40998.9	36887.7	33017.1	29213.0	25563.1	22223.9	19198.1	16473.6	14034.4
7.5°	51391.9	46960.0	42450.6	38097.4	34037.8	30147.4	26336.4	22865.9	19720.5	16907.4	14377.0
5°	52720.5	48176.3	43514.6	38980.2	34780.0	30825.0	26896.0	23329.7	20097.2	17219.8	14623.6
2.5°	53540.4	48922.4	44164.6	39517.8	35230.9	31235.8	27234.7	23610.1	20324.8	17408.4	14772.3
0°	53817.7	49174.0	44383.3	39698.3	35382.1	31373.5	27348.1	23703.9	20400.9	17471.4	14822.0
-2.5°	53540.4	48922.4	44164.6	39517.8	35230.9	31235.8	27234.7	23610.1	20324.8	17408.4	14772.3
-5°	52720.5	48176.3	43514.6	38980.2	34780.0	30825.0	26896.0	23329.7	20097.2	17219.8	14623.6
-7.5°	51391.9	46960.0	42450.6	38097.4	34037.8	30147.4	26336.4	22865.9	19720.5	16907.4	14377.0
-10°	49603.6	45310.3	40998.9	36887.7	33017.1	29213.0	25563.1	22223.9	19198.1	16473.6	14034.4
-12.5°	47356.4	43295.5	39232.1	35374.7	31734.7	28035.0	24585.5	21410.4	18534.9	15922.1	13598.1
-15°	44739.3	40965.7	37273.4	33710.8	30204.6	26696.7	23441.7	20433.4	17736.8	15257.1	13071.3
-17.5°	41877.9	38451.3	35077.2	31813.9	28449.8	25231.8	22216.5	19426.4	16873.5	14530.8	12468.1
-20°	38850.8	35806.5	32803.2	29701.8	26573.6	23601.4	20838.9	18294.9	15926.1	13776.7	11858.4



REPORT NUMBER: P1305388 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-7F-HEG-A

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	35806.5	33137.7	30340.0	27402.7	24636.7	21968.7	19443.2	17085.0	14875.8	12938.6	11179.5
-25°	32803.2	30340.0	27709.7	25168.3	22660.3	20226.5	17983.0	15854.0	13882.4	12087.3	10452.1
-27.5°	29701.8	27402.7	25168.3	22893.2	20652.2	18556.3	16519.6	14571.9	12819.9	11221.2	9764.4
-30°	26573.6	24636.7	22660.3	20652.2	18749.1	16856.5	15019.8	13361.8	11794.3	10332.6	9027.4
-32.5°	23601.4	21968.7	20226.5	18556.3	16856.5	15183.9	13635.7	12143.0	10746.6	9495.0	8320.2
-35°	20838.9	19443.2	17983.0	16519.6	15019.8	13635.7	12260.1	10974.5	9779.1	8643.1	7597.8
-37.5°	18294.9	17085.0	15854.0	14571.9	13361.8	12143.0	10974.5	9874.5	8806.0	7836.5	6929.7
-40°	15926.1	14875.8	13882.4	12819.9	11794.3	10746.6	9779.1	8806.0	7916.6	7059.8	6275.3
-42.5°	13776.7	12938.6	12087.3	11221.2	10332.6	9495.0	8643.1	7836.5	7059.8	6339.4	5662.3
-45°	11858.4	11179.5	10452.1	9764.4	9027.4	8320.2	7597.8	6929.7	6275.3	5662.3	5047.8
-47.5°	10148.0	9612.1	9023.5	8443.0	7843.1	7231.4	6671.8	6089.7	5552.2	5003.1	4527.1
-50°	8646.5	8213.7	7737.5	7244.2	6782.6	6290.3	5813.7	5333.5	4869.5	4439.0	4014.4
-52.5°	7309.3	6978.8	6614.7	6218.3	5833.0	5433.4	5016.5	4649.1	4264.1	3901.4	3539.2
-55°	6185.0	5912.2	5618.9	5299.3	4971.0	4667.4	4345.0	4025.0	3714.7	3390.8	3098.7
-57.5°	5188.1	4963.2	4742.2	4501.0	4240.5	3987.3	3729.4	3457.0	3199.7	2940.7	2677.6
-60°	4345.0	4162.9	3987.3	3796.1	3589.3	3370.0	3165.8	2949.7	2722.4	2517.4	2304.6
-62.5°	3606.8	3463.5	3315.8	3165.8	3003.3	2829.0	2653.6	2484.8	2307.0	2123.3	1952.2
-65°	2957.3	2845.9	2722.4	2605.7	2480.1	2345.1	2201.2	2059.9	1918.4	1770.0	1617.8
-67.5°	2389.8	2304.6	2210.2	2111.1	2012.4	1906.3	1793.0	1672.9	1557.2	1440.3	1318.1
-70°	1889.7	1823.6	1750.4	1670.1	1589.7	1507.3	1419.3	1325.9	1227.3	1135.4	1045.0
-72.5°	1444.8	1394.4	1338.5	1277.2	1210.7	1148.1	1084.2	1016.3	944.6	869.2	796.3
-75°	1056.9	1021.1	981.4	937.8	890.4	839.5	791.9	744.5	694.4	641.7	586.5
-77.5°	730.7	706.4	679.5	649.9	617.8	583.2	546.1	509.8	477.4	443.3	407.6
-80°	463.0	448.0	431.3	413.0	393.0	371.6	348.6	324.2	298.3	275.5	256.2
-82.5°	255.7	248.2	239.7	230.5	220.4	209.6	198.0	185.6	172.5	158.8	144.3
-85°	115.0	112.2	109.1	105.8	102.1	98.1	93.9	89.4	84.6	79.6	74.3
-87.5°	36.0	35.4	34.7	34.0	33.2	32.3	31.4	30.4	29.3	28.2	27.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1305388 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-7F-HEG-A

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	24.6	23.3	22.0	20.6	19.1	17.7	16.2	14.7	13.1	11.5
85°	68.8	63.1	57.2	51.0	44.7	38.3	35.3	32.3	29.3	26.2	23.0
82.5°	129.3	119.0	110.1	100.9	91.4	81.6	71.6	61.4	51.0	40.3	34.5
80°	236.1	215.2	193.5	171.1	148.0	124.8	111.5	97.9	84.0	69.9	55.5
77.5°	370.3	331.6	291.4	261.2	232.4	202.7	172.4	141.3	116.8	99.2	81.3
75°	528.9	480.5	432.3	382.5	331.2	280.6	244.2	207.0	169.1	130.5	106.8
72.5°	729.0	659.2	586.8	514.0	454.2	392.9	330.1	272.0	227.9	183.0	137.5
70°	950.8	853.0	764.9	679.6	591.8	505.9	434.3	361.1	286.7	234.9	183.0
67.5°	1191.3	1081.2	967.3	850.0	746.5	645.4	542.0	455.1	371.5	286.7	227.9
65°	1476.1	1329.2	1180.2	1049.9	916.0	786.9	672.3	555.4	455.1	361.1	272.0
62.5°	1774.5	1596.1	1429.2	1257.4	1099.7	949.1	800.4	672.3	542.0	434.3	330.1
60°	2090.8	1889.7	1682.3	1489.6	1297.5	1116.4	949.1	786.9	645.4	505.9	392.9
57.5°	2437.7	2189.7	1959.4	1728.6	1509.8	1297.5	1099.7	916.0	746.5	591.8	454.2
55°	2796.8	2518.1	2243.1	1982.7	1728.6	1489.6	1257.4	1049.9	850.0	679.6	514.0
52.5°	3194.3	2860.1	2545.1	2243.1	1959.4	1682.3	1429.2	1180.2	967.3	764.9	586.8
50°	3613.8	3226.3	2860.1	2518.1	2189.7	1889.7	1596.1	1329.2	1081.2	853.0	659.2
47.5°	4052.3	3613.8	3194.3	2796.8	2437.7	2090.8	1774.5	1476.1	1191.3	950.8	729.0
45°	4527.1	4014.4	3539.2	3098.7	2677.6	2304.6	1952.2	1617.8	1318.1	1045.0	796.3
42.5°	5003.1	4439.0	3901.4	3390.8	2940.7	2517.4	2123.3	1770.0	1440.3	1135.4	869.2
40°	5552.2	4869.5	4264.1	3714.7	3199.7	2722.4	2307.0	1918.4	1557.2	1227.3	944.6
37.5°	6089.7	5333.5	4649.1	4025.0	3457.0	2949.7	2484.8	2059.9	1672.9	1325.9	1016.3
35°	6671.8	5813.7	5016.5	4345.0	3729.4	3165.8	2653.6	2201.2	1793.0	1419.3	1084.2
32.5°	7231.4	6290.3	5433.4	4667.4	3987.3	3370.0	2829.0	2345.1	1906.3	1507.3	1148.1
30°	7843.1	6782.6	5833.0	4971.0	4240.5	3589.3	3003.3	2480.1	2012.4	1589.7	1210.7
27.5°	8443.0	7244.2	6218.3	5299.3	4501.0	3796.1	3165.8	2605.7	2111.1	1670.1	1277.2
25°	9023.5	7737.5	6614.7	5618.9	4742.2	3987.3	3315.8	2722.4	2210.2	1750.4	1338.5
22.5°	9612.1	8213.7	6978.8	5912.2	4963.2	4162.9	3463.5	2845.9	2304.6	1823.6	1394.4
20°	10148.0	8646.5	7309.3	6185.0	5188.1	4345.0	3606.8	2957.3	2389.8	1889.7	1444.8
17.5°	10641.7	9060.2	7654.6	6455.8	5404.8	4507.3	3734.3	3056.4	2465.6	1948.4	1489.6
15°	11136.6	9448.8	7966.9	6692.9	5594.4	4649.1	3845.7	3142.9	2531.7	1999.6	1528.6
12.5°	11560.6	9781.3	8233.8	6895.4	5756.2	4770.0	3940.6	3216.6	2587.9	2043.1	1561.8
10°	11911.2	10056.0	8454.0	7062.4	5889.4	4869.5	4018.7	3277.2	2634.1	2078.9	1589.0
7.5°	12186.2	10271.3	8626.4	7193.0	5993.7	4947.3	4079.7	3324.5	2670.2	2106.8	1610.3
5°	12384.0	10425.9	8750.3	7286.7	6068.4	5003.1	4123.4	3358.4	2696.1	2126.8	1625.5
2.5°	12503.2	10519.1	8824.8	7343.2	6113.4	5036.6	4149.7	3378.8	2711.6	2138.8	1634.6
0°	12543.0	10550.2	8849.7	7362.0	6128.4	5047.8	4158.5	3385.6	2716.8	2142.8	1637.7
-2.5°	12503.2	10519.1	8824.8	7343.2	6113.4	5036.6	4149.7	3378.8	2711.6	2138.8	1634.6
-5°	12384.0	10425.9	8750.3	7286.7	6068.4	5003.1	4123.4	3358.4	2696.1	2126.8	1625.5
-7.5°	12186.2	10271.3	8626.4	7193.0	5993.7	4947.3	4079.7	3324.5	2670.2	2106.8	1610.3
-10°	11911.2	10056.0	8454.0	7062.4	5889.4	4869.5	4018.7	3277.2	2634.1	2078.9	1589.0
-12.5°	11560.6	9781.3	8233.8	6895.4	5756.2	4770.0	3940.6	3216.6	2587.9	2043.1	1561.8
-15°	11136.6	9448.8	7966.9	6692.9	5594.4	4649.1	3845.7	3142.9	2531.7	1999.6	1528.6
-17.5°	10641.7	9060.2	7654.6	6455.8	5404.8	4507.3	3734.3	3056.4	2465.6	1948.4	1489.6
-20°	10148.0	8646.5	7309.3	6185.0	5188.1	4345.0	3606.8	2957.3	2389.8	1889.7	1444.8



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	9612.1	8213.7	6978.8	5912.2	4963.2	4162.9	3463.5	2845.9	2304.6	1823.6	1394.4
-25°	9023.5	7737.5	6614.7	5618.9	4742.2	3987.3	3315.8	2722.4	2210.2	1750.4	1338.5
-27.5°	8443.0	7244.2	6218.3	5299.3	4501.0	3796.1	3165.8	2605.7	2111.1	1670.1	1277.2
-30°	7843.1	6782.6	5833.0	4971.0	4240.5	3589.3	3003.3	2480.1	2012.4	1589.7	1210.7
-32.5°	7231.4	6290.3	5433.4	4667.4	3987.3	3370.0	2829.0	2345.1	1906.3	1507.3	1148.1
-35°	6671.8	5813.7	5016.5	4345.0	3729.4	3165.8	2653.6	2201.2	1793.0	1419.3	1084.2
-37.5°	6089.7	5333.5	4649.1	4025.0	3457.0	2949.7	2484.8	2059.9	1672.9	1325.9	1016.3
-40°	5552.2	4869.5	4264.1	3714.7	3199.7	2722.4	2307.0	1918.4	1557.2	1227.3	944.6
-42.5°	5003.1	4439.0	3901.4	3390.8	2940.7	2517.4	2123.3	1770.0	1440.3	1135.4	869.2
-45°	4527.1	4014.4	3539.2	3098.7	2677.6	2304.6	1952.2	1617.8	1318.1	1045.0	796.3
-47.5°	4052.3	3613.8	3194.3	2796.8	2437.7	2090.8	1774.5	1476.1	1191.3	950.8	729.0
-50°	3613.8	3226.3	2860.1	2518.1	2189.7	1889.7	1596.1	1329.2	1081.2	853.0	659.2
-52.5°	3194.3	2860.1	2545.1	2243.1	1959.4	1682.3	1429.2	1180.2	967.3	764.9	586.8
-55°	2796.8	2518.1	2243.1	1982.7	1728.6	1489.6	1257.4	1049.9	850.0	679.6	514.0
-57.5°	2437.7	2189.7	1959.4	1728.6	1509.8	1297.5	1099.7	916.0	746.5	591.8	454.2
-60°	2090.8	1889.7	1682.3	1489.6	1297.5	1116.4	949.1	786.9	645.4	505.9	392.9
-62.5°	1774.5	1596.1	1429.2	1257.4	1099.7	949.1	800.4	672.3	542.0	434.3	330.1
-65°	1476.1	1329.2	1180.2	1049.9	916.0	786.9	672.3	555.4	455.1	361.1	272.0
-67.5°	1191.3	1081.2	967.3	850.0	746.5	645.4	542.0	455.1	371.5	286.7	227.9
-70°	950.8	853.0	764.9	679.6	591.8	505.9	434.3	361.1	286.7	234.9	183.0
-72.5°	729.0	659.2	586.8	514.0	454.2	392.9	330.1	272.0	227.9	183.0	137.5
-75°	528.9	480.5	432.3	382.5	331.2	280.6	244.2	207.0	169.1	130.5	106.8
-77.5°	370.3	331.6	291.4	261.2	232.4	202.7	172.4	141.3	116.8	99.2	81.3
-80°	236.1	215.2	193.5	171.1	148.0	124.8	111.5	97.9	84.0	69.9	55.5
-82.5°	129.3	119.0	110.1	100.9	91.4	81.6	71.6	61.4	51.0	40.3	34.5
-85°	68.8	63.1	57.2	51.0	44.7	38.3	35.3	32.3	29.3	26.2	23.0
-87.5°	25.9	24.6	23.3	22.0	20.6	19.1	17.7	16.2	14.7	13.1	11.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	8.3	6.6	5.0	3.3	1.7	0.0
85°	19.8	16.6	13.3	10.0	6.7	3.3	0.0
82.5°	29.7	24.8	19.9	15.0	10.0	5.0	0.0
80°	40.9	33.0	26.5	19.9	13.3	6.6	0.0
77.5°	63.1	44.8	33.0	24.8	16.6	8.3	0.0
75°	85.1	63.1	40.9	29.7	19.8	9.9	0.0
72.5°	106.8	81.3	55.5	34.5	23.0	11.5	0.0
70°	130.5	99.2	69.9	40.3	26.2	13.1	0.0
67.5°	169.1	116.8	84.0	51.0	29.3	14.7	0.0
65°	207.0	141.3	97.9	61.4	32.3	16.2	0.0
62.5°	244.2	172.4	111.5	71.6	35.3	17.7	0.0
60°	280.6	202.7	124.8	81.6	38.3	19.1	0.0
57.5°	331.2	232.4	148.0	91.4	44.7	20.6	0.0
55°	382.5	261.2	171.1	100.9	51.0	22.0	0.0
52.5°	432.3	291.4	193.5	110.1	57.2	23.3	0.0
50°	480.5	331.6	215.2	119.0	63.1	24.6	0.0
47.5°	528.9	370.3	236.1	129.3	68.8	25.9	0.0
45°	586.5	407.6	256.2	144.3	74.3	27.1	0.0
42.5°	641.7	443.3	275.5	158.8	79.6	28.2	0.0
40°	694.4	477.4	298.3	172.5	84.6	29.3	0.0
37.5°	744.5	509.8	324.2	185.6	89.4	30.4	0.0
35°	791.9	546.1	348.6	198.0	93.9	31.4	0.0
32.5°	839.5	583.2	371.6	209.6	98.1	32.3	0.0
30°	890.4	617.8	393.0	220.4	102.1	33.2	0.0
27.5°	937.8	649.9	413.0	230.5	105.8	34.0	0.0
25°	981.4	679.5	431.3	239.7	109.1	34.7	0.0
22.5°	1021.1	706.4	448.0	248.2	112.2	35.4	0.0
20°	1056.9	730.7	463.0	255.7	115.0	36.0	0.0
17.5°	1088.7	752.2	476.3	262.5	117.4	36.5	0.0
15°	1116.4	771.0	488.0	268.3	119.5	37.0	0.0
12.5°	1139.9	786.9	497.8	273.3	121.4	37.4	0.0
10°	1159.3	800.0	505.9	277.4	122.8	37.7	0.0
7.5°	1174.3	810.2	512.3	280.6	124.0	38.0	0.0
5°	1185.1	817.5	516.8	282.9	124.8	38.2	0.0
2.5°	1191.6	821.9	519.5	284.2	125.3	38.3	0.0
0°	1193.8	823.4	520.4	284.7	125.5	38.3	0.0
-2.5°	1191.6	821.9	519.5	284.2	125.3	38.3	0.0
-5°	1185.1	817.5	516.8	282.9	124.8	38.2	0.0
-7.5°	1174.3	810.2	512.3	280.6	124.0	38.0	0.0
-10°	1159.3	800.0	505.9	277.4	122.8	37.7	0.0
-12.5°	1139.9	786.9	497.8	273.3	121.4	37.4	0.0
-15°	1116.4	771.0	488.0	268.3	119.5	37.0	0.0
-17.5°	1088.7	752.2	476.3	262.5	117.4	36.5	0.0
-20°	1056.9	730.7	463.0	255.7	115.0	36.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1021.1	706.4	448.0	248.2	112.2	35.4	0.0
-25°	981.4	679.5	431.3	239.7	109.1	34.7	0.0
-27.5°	937.8	649.9	413.0	230.5	105.8	34.0	0.0
-30°	890.4	617.8	393.0	220.4	102.1	33.2	0.0
-32.5°	839.5	583.2	371.6	209.6	98.1	32.3	0.0
-35°	791.9	546.1	348.6	198.0	93.9	31.4	0.0
-37.5°	744.5	509.8	324.2	185.6	89.4	30.4	0.0
-40°	694.4	477.4	298.3	172.5	84.6	29.3	0.0
-42.5°	641.7	443.3	275.5	158.8	79.6	28.2	0.0
-45°	586.5	407.6	256.2	144.3	74.3	27.1	0.0
-47.5°	528.9	370.3	236.1	129.3	68.8	25.9	0.0
-50°	480.5	331.6	215.2	119.0	63.1	24.6	0.0
-52.5°	432.3	291.4	193.5	110.1	57.2	23.3	0.0
-55°	382.5	261.2	171.1	100.9	51.0	22.0	0.0
-57.5°	331.2	232.4	148.0	91.4	44.7	20.6	0.0
-60°	280.6	202.7	124.8	81.6	38.3	19.1	0.0
-62.5°	244.2	172.4	111.5	71.6	35.3	17.7	0.0
-65°	207.0	141.3	97.9	61.4	32.3	16.2	0.0
-67.5°	169.1	116.8	84.0	51.0	29.3	14.7	0.0
-70°	130.5	99.2	69.9	40.3	26.2	13.1	0.0
-72.5°	106.8	81.3	55.5	34.5	23.0	11.5	0.0
-75°	85.1	63.1	40.9	29.7	19.8	9.9	0.0
-77.5°	63.1	44.8	33.0	24.8	16.6	8.3	0.0
-80°	40.9	33.0	26.5	19.9	13.3	6.6	0.0
-82.5°	29.7	24.8	19.9	15.0	10.0	5.0	0.0
-85°	19.8	16.6	13.3	10.0	6.7	3.3	0.0
-87.5°	9.9	8.3	6.6	5.0	3.3	1.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)