

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: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0640L-57-80-2S-HEG**

Issue Date: 10/30/2020

Test Information

Test Method: LM-79-08
Report Number: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1912-617-11)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-08-0640L-57-80-2S-HEG
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	85517.9 lumens	Max Intensity:	473603.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

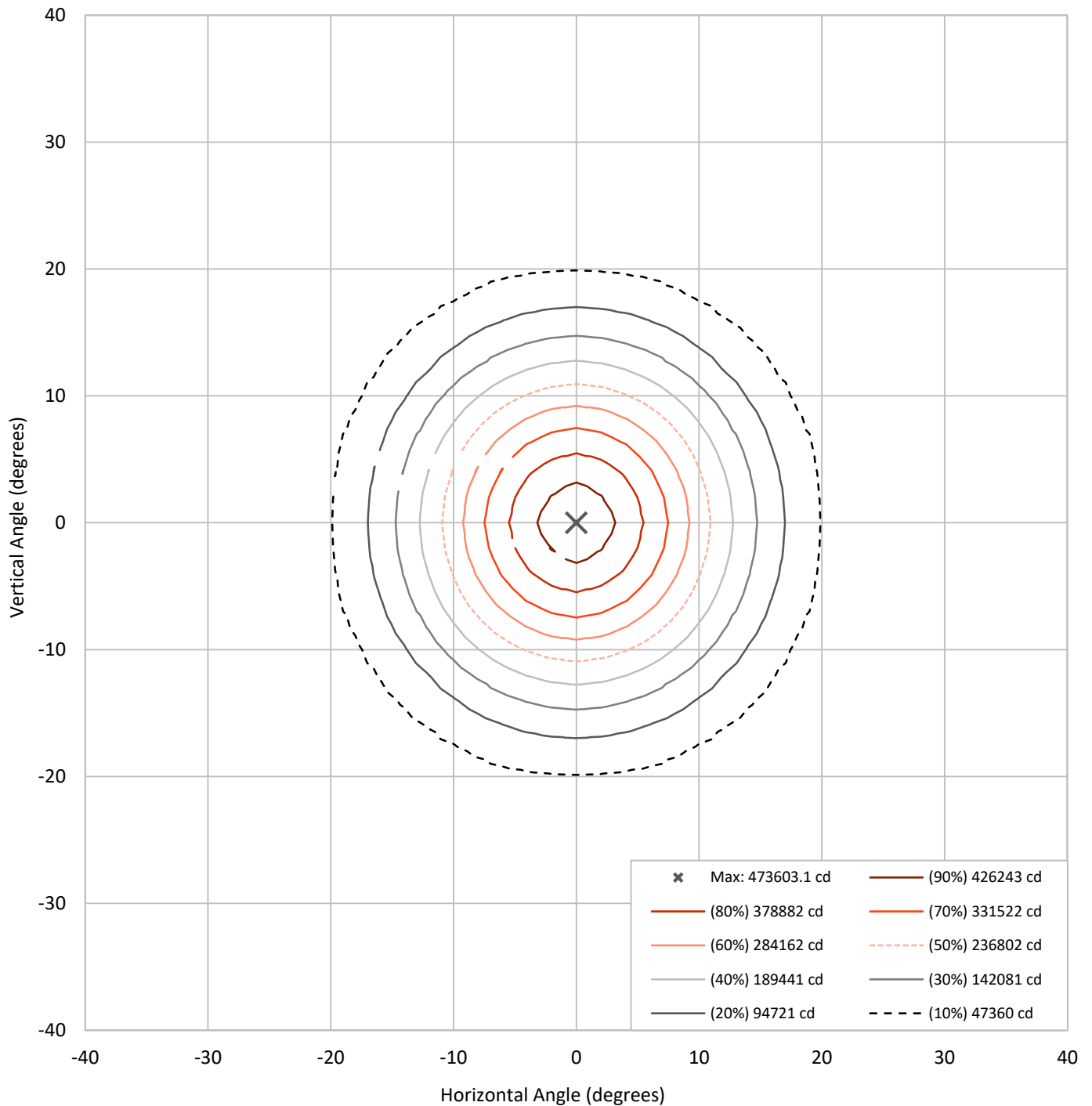
Beam Angle (50%):	21.9°H x 21.9°V	Field Angle (10%):	39.8°H x 39.8°V
Beam Lumens:	37365.2 lumens	Field Lumens:	70130.7 lumens
Beam Efficiency:	43.7%	Field Efficiency:	82.0%

Input Watts (W): 667
Input Voltage (V): NR
Input Current (A_{in}): 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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CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

Iso-Candela Plot





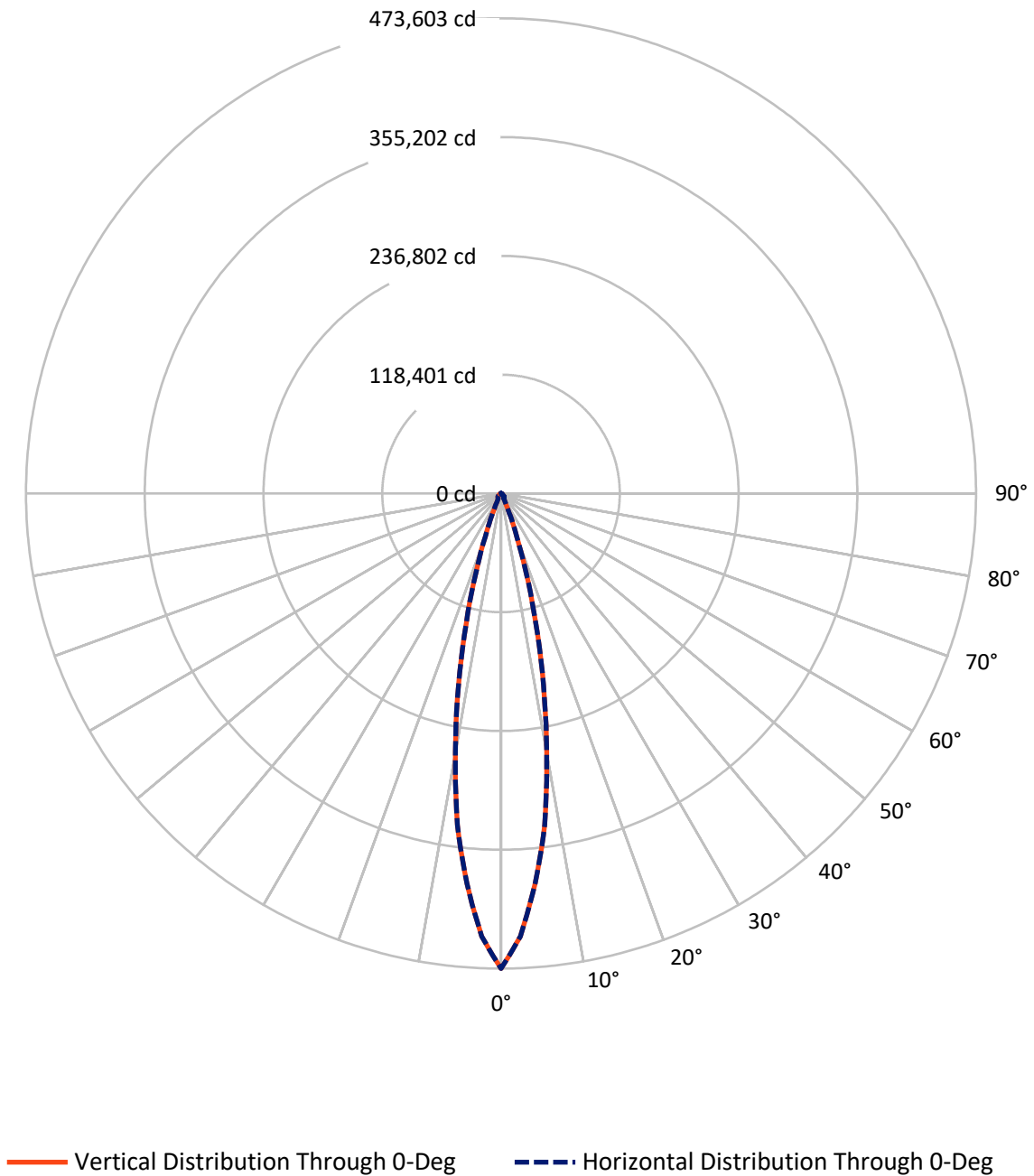
REPORT NUMBER: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90	0.0	0.6	2.5	6.7	9.0	6.7	2.5	0.6	0.0										
80	0.0	0.6	2.5	6.7	9.0	6.7	2.5	0.6	0.0										
70	0.3	0.4	1.6	5.1	10.2	15.8	20.4	22.9	22.9	20.4	15.8	10.2	5.1	1.6	0.4	0.3			
60		1.2	6.0	14.6	25.4	35.5	42.4	45.8	45.8	42.4	35.5	25.4	14.6	6.0	1.2				
50	0.9	3.1	11.9	25.5	39.1	63.1	96.9	116.4	116.4	96.9	63.1	39.1	25.5	11.9	3.1	0.9			
40		5.5	17.9	33.8	74.5	129.2	151.7	160.0	160.0	151.7	129.2	74.5	33.8	17.9	5.5				
30	2.0	7.6	22.7	49.8	116.9	146.5	210.1	432.6	432.6	210.1	146.5	116.9	49.8	22.7	7.6	2.0			
20		9.2	25.3	71.9	128.7	197.9	1247.0	3622.8	3622.8	1247.0	197.9	128.7	71.9	25.3	9.2				
10	2.6	10.0	26.6	83.6	131.6	398.7	3530.4	9714.6	9714.6	3530.4	398.7	131.6	83.6	26.6	10.0	2.6			
0		10.0	26.6	83.6	131.6	398.7	3530.4	9714.6	9714.6	3530.4	398.7	131.6	83.6	26.6	10.0				
-10	2.0	9.2	25.3	71.9	128.7	197.9	1247.0	3622.8	3622.8	1247.0	197.9	128.7	71.9	25.3	9.2	2.0			
-20		7.6	22.7	49.8	116.9	146.5	210.1	432.6	432.6	210.1	146.5	116.9	49.8	22.7	7.6				
-30	0.9	5.5	17.9	33.8	74.5	129.2	151.7	160.0	160.0	151.7	129.2	74.5	33.8	17.9	5.5	0.9			
-40		3.1	11.9	25.5	39.1	63.1	96.9	116.4	116.4	96.9	63.1	39.1	25.5	11.9	3.1				
-50	0.3	1.2	6.0	14.6	25.4	35.5	42.4	45.8	45.8	42.4	35.5	25.4	14.6	6.0	1.2	0.3			
-60		0.4	1.6	5.1	10.2	15.8	20.4	22.9	22.9	20.4	15.8	10.2	5.1	1.6	0.4				
-70	0.0	0.6	2.5	6.7	9.0	6.7	2.5	0.6	0.0										
-80		0.0	0.6	2.5	6.7	9.0	6.7	2.5	0.6	0.0									
-90	0.0	0.6	2.5	6.7	9.0	6.7	2.5	0.6	0.0										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

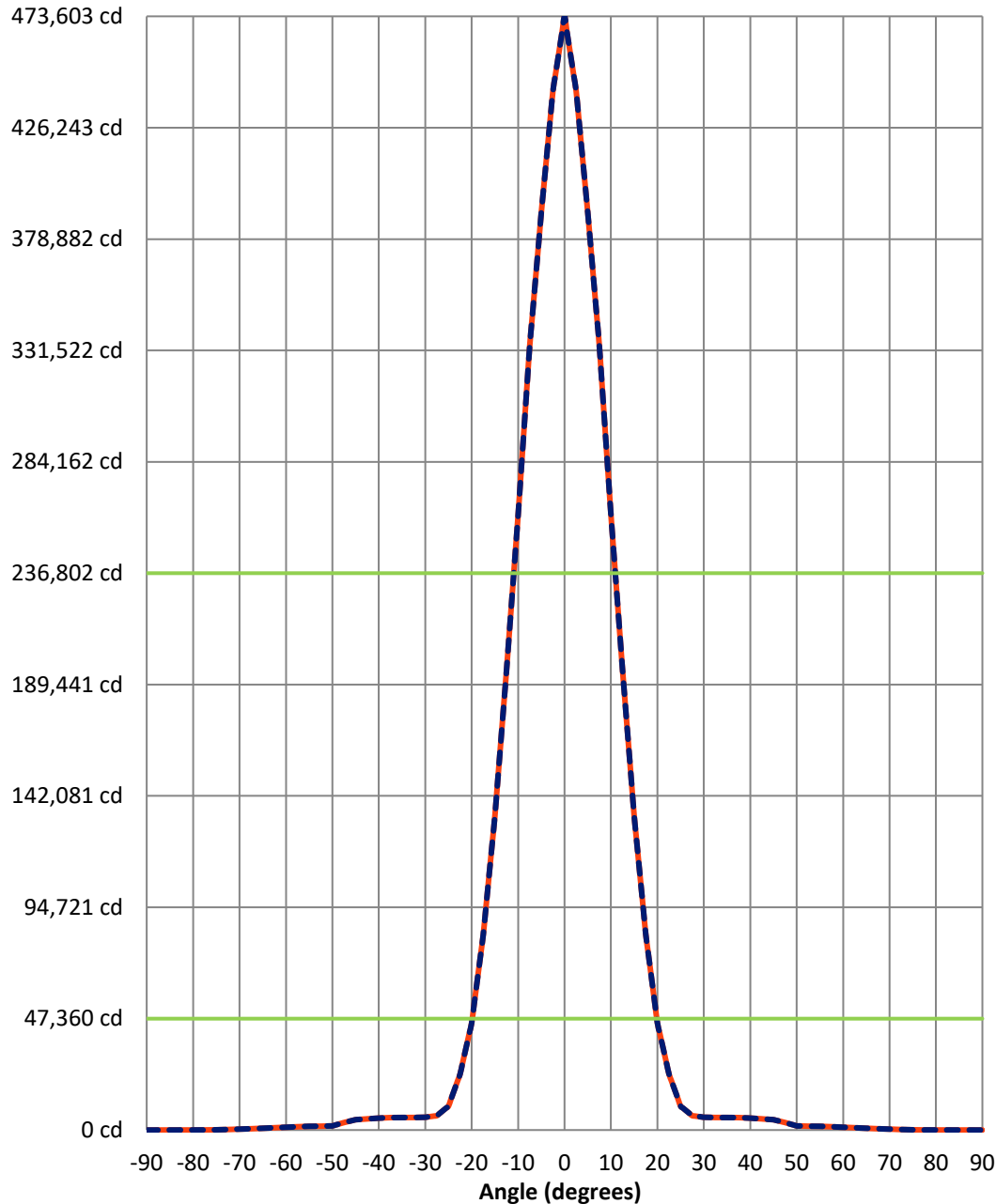
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 21.9°
 V Angle: 21.9°
 Lumens: 37365.2
 Efficiency: 43.7%

Field:
 H Angle: 39.8°
 V Angle: 39.8°
 Lumens: 70130.7
 Efficiency: 82.0%

Spill:
 Lumens: 15387.2
 Efficiency: 18.0%

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

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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
85°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.4
82.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.7	2.3	2.8
80°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.5	3.3	4.1	4.8
77.5°	0.0	0.3	0.7	1.0	1.4	1.9	2.9	3.9	4.9	5.8	7.1
75°	0.0	0.4	0.8	1.2	1.7	2.9	4.1	5.3	6.5	8.5	10.3
72.5°	0.0	0.5	1.0	1.4	2.5	3.9	5.3	6.9	9.2	11.4	13.6
70°	0.0	0.5	1.1	1.7	3.3	4.9	6.5	9.2	11.7	14.3	17.8
67.5°	0.0	0.6	1.2	2.3	4.1	5.8	8.5	11.4	14.3	18.3	22.2
65°	0.0	0.7	1.4	2.8	4.8	7.1	10.3	13.6	17.8	22.2	27.2
62.5°	0.0	0.7	1.5	3.4	5.5	8.6	12.2	16.3	21.2	26.4	33.9
60°	0.0	0.8	1.6	3.9	6.3	10.1	14.0	19.2	24.5	32.4	40.5
57.5°	0.0	0.9	1.9	4.5	7.4	11.6	16.4	22.1	29.3	38.2	56.8
55°	0.0	0.9	2.3	5.0	8.6	13.0	18.8	24.9	34.3	46.7	77.3
52.5°	0.0	1.0	2.6	5.5	9.7	14.5	21.1	29.0	39.2	64.7	97.3
50°	0.0	1.0	2.9	5.9	10.8	16.4	23.3	33.2	47.1	82.1	137.0
47.5°	0.0	1.1	3.2	6.5	11.8	18.2	25.7	37.2	62.1	99.0	177.7
45°	0.0	1.1	3.5	7.2	12.8	19.9	29.0	41.0	76.6	133.9	217.0
42.5°	0.0	1.2	3.8	8.0	13.7	21.6	32.2	49.6	90.4	167.8	265.5
40°	0.0	1.2	4.1	8.6	14.8	23.2	35.2	61.2	108.7	200.2	313.7
37.5°	0.0	1.3	4.4	9.3	16.0	24.7	38.1	72.2	136.0	233.9	359.7
35°	0.0	1.3	4.6	9.9	17.2	26.7	40.8	82.6	161.9	273.0	403.4
32.5°	0.0	1.3	4.8	10.5	18.3	28.8	45.1	92.4	186.3	309.8	445.0
30°	0.0	1.4	5.0	11.0	19.3	30.8	52.9	104.1	209.2	344.2	483.9
27.5°	0.0	1.4	5.2	11.5	20.2	32.6	60.1	122.5	233.0	376.3	520.1
25°	0.0	1.5	5.4	12.0	21.0	34.3	66.8	139.5	259.1	406.0	553.9
22.5°	0.0	1.5	5.6	12.4	21.8	35.9	72.9	155.0	282.9	433.3	592.1
20°	0.0	1.5	5.7	12.8	22.5	37.3	78.4	169.0	304.4	457.9	626.5
17.5°	0.0	1.5	5.9	13.1	23.1	38.5	83.3	181.4	323.4	479.7	657.2
15°	0.0	1.5	6.0	13.4	23.7	39.6	87.5	192.2	340.1	498.8	683.9
12.5°	0.0	1.6	6.1	13.6	24.1	40.5	91.1	201.4	354.2	515.0	706.7
10°	0.0	1.6	6.2	13.8	24.5	41.3	94.1	209.0	365.8	528.3	725.4
7.5°	0.0	1.6	6.2	14.0	24.8	41.8	96.4	214.9	374.9	538.8	740.0
5°	0.0	1.6	6.3	14.1	25.0	42.3	98.1	219.1	381.4	546.2	750.5
2.5°	0.0	1.6	6.3	14.2	25.2	42.5	99.1	221.7	385.3	550.7	756.8
0°	0.0	1.6	6.3	14.2	25.2	42.5	99.1	221.7	385.3	550.7	756.8
-2.5°	0.0	1.6	6.3	14.2	25.2	42.5	99.1	221.7	385.3	550.7	756.8
-5°	0.0	1.6	6.3	14.1	25.0	42.3	98.1	219.1	381.4	546.2	750.5
-7.5°	0.0	1.6	6.2	14.0	24.8	41.8	96.4	214.9	374.9	538.8	740.0
-10°	0.0	1.6	6.2	13.8	24.5	41.3	94.1	209.0	365.8	528.3	725.4
-12.5°	0.0	1.6	6.1	13.6	24.1	40.5	91.1	201.4	354.2	515.0	706.7
-15°	0.0	1.5	6.0	13.4	23.7	39.6	87.5	192.2	340.1	498.8	683.9
-17.5°	0.0	1.5	5.9	13.1	23.1	38.5	83.3	181.4	323.4	479.7	657.2
-20°	0.0	1.5	5.7	12.8	22.5	37.3	78.4	169.0	304.4	457.9	626.5



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 CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	1.5	5.6	12.4	21.8	35.9	72.9	155.0	282.9	433.3	592.1
-25°	0.0	1.5	5.4	12.0	21.0	34.3	66.8	139.5	259.1	406.0	553.9
-27.5°	0.0	1.4	5.2	11.5	20.2	32.6	60.1	122.5	233.0	376.3	520.1
-30°	0.0	1.4	5.0	11.0	19.3	30.8	52.9	104.1	209.2	344.2	483.9
-32.5°	0.0	1.3	4.8	10.5	18.3	28.8	45.1	92.4	186.3	309.8	445.0
-35°	0.0	1.3	4.6	9.9	17.2	26.7	40.8	82.6	161.9	273.0	403.4
-37.5°	0.0	1.3	4.4	9.3	16.0	24.7	38.1	72.2	136.0	233.9	359.7
-40°	0.0	1.2	4.1	8.6	14.8	23.2	35.2	61.2	108.7	200.2	313.7
-42.5°	0.0	1.2	3.8	8.0	13.7	21.6	32.2	49.6	90.4	167.8	265.5
-45°	0.0	1.1	3.5	7.2	12.8	19.9	29.0	41.0	76.6	133.9	217.0
-47.5°	0.0	1.1	3.2	6.5	11.8	18.2	25.7	37.2	62.1	99.0	177.7
-50°	0.0	1.0	2.9	5.9	10.8	16.4	23.3	33.2	47.1	82.1	137.0
-52.5°	0.0	1.0	2.6	5.5	9.7	14.5	21.1	29.0	39.2	64.7	97.3
-55°	0.0	0.9	2.3	5.0	8.6	13.0	18.8	24.9	34.3	46.7	77.3
-57.5°	0.0	0.9	1.9	4.5	7.4	11.6	16.4	22.1	29.3	38.2	56.8
-60°	0.0	0.8	1.6	3.9	6.3	10.1	14.0	19.2	24.5	32.4	40.5
-62.5°	0.0	0.7	1.5	3.4	5.5	8.6	12.2	16.3	21.2	26.4	33.9
-65°	0.0	0.7	1.4	2.8	4.8	7.1	10.3	13.6	17.8	22.2	27.2
-67.5°	0.0	0.6	1.2	2.3	4.1	5.8	8.5	11.4	14.3	18.3	22.2
-70°	0.0	0.5	1.1	1.7	3.3	4.9	6.5	9.2	11.7	14.3	17.8
-72.5°	0.0	0.5	1.0	1.4	2.5	3.9	5.3	6.9	9.2	11.4	13.6
-75°	0.0	0.4	0.8	1.2	1.7	2.9	4.1	5.3	6.5	8.5	10.3
-77.5°	0.0	0.3	0.7	1.0	1.4	1.9	2.9	3.9	4.9	5.8	7.1
-80°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.5	3.3	4.1	4.8
-82.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.7	2.3	2.8
-85°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.4
-87.5°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
85°	1.5	1.6	1.9	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4
82.5°	3.4	3.9	4.5	5.0	5.5	5.9	6.5	7.2	8.0	8.6	9.3
80°	5.5	6.3	7.4	8.6	9.7	10.8	11.8	12.8	13.7	14.8	16.0
77.5°	8.6	10.1	11.6	13.0	14.5	16.4	18.2	19.9	21.6	23.2	24.7
75°	12.2	14.0	16.4	18.8	21.1	23.3	25.7	29.0	32.2	35.2	38.1
72.5°	16.3	19.2	22.1	24.9	29.0	33.2	37.2	41.0	49.6	61.2	72.2
70°	21.2	24.5	29.3	34.3	39.2	47.1	62.1	76.6	90.4	108.7	136.0
67.5°	26.4	32.4	38.2	46.7	64.7	82.1	99.0	133.9	167.8	200.2	233.9
65°	33.9	40.5	56.8	77.3	97.3	137.0	177.7	217.0	265.5	313.7	359.7
62.5°	41.3	61.9	85.0	117.0	164.7	211.0	266.9	324.7	380.3	434.0	485.3
60°	61.9	87.5	128.2	181.4	237.0	304.4	369.7	433.3	494.7	553.9	624.2
57.5°	85.0	128.2	187.0	252.0	327.0	400.1	471.7	540.9	621.4	701.4	778.9
55°	117.0	181.4	252.0	334.6	415.5	494.9	576.9	670.2	760.4	851.0	937.7
52.5°	164.7	237.0	327.0	415.5	502.7	596.5	699.8	801.9	903.2	1000.0	1090.8
50°	211.0	304.4	400.1	494.9	596.5	709.7	822.7	934.8	1041.3	1142.8	1244.6
47.5°	266.9	369.7	471.7	576.9	699.8	822.7	945.4	1062.1	1174.3	1290.2	1402.5
45°	324.7	433.3	540.9	670.2	801.9	934.8	1062.1	1184.9	1313.3	1431.6	1525.4
42.5°	380.3	494.7	621.4	760.4	903.2	1041.3	1174.3	1313.3	1440.8	1544.0	1599.4
40°	434.0	553.9	701.4	851.0	1000.0	1142.8	1290.2	1431.6	1544.0	1601.4	1624.1
37.5°	485.3	624.2	778.9	937.7	1090.8	1244.6	1402.5	1525.4	1599.4	1624.1	1709.8
35°	534.0	691.0	855.1	1019.1	1177.5	1344.9	1488.4	1593.3	1619.9	1701.9	2067.6
32.5°	586.9	754.1	927.2	1095.2	1265.4	1433.8	1568.6	1611.7	1678.5	1905.4	2899.3
30°	640.8	815.9	994.5	1166.8	1348.9	1504.3	1599.6	1639.9	1747.6	2651.1	3618.8
27.5°	691.0	873.7	1055.9	1237.4	1423.5	1570.4	1614.8	1700.7	2243.2	3331.1	4261.4
25°	737.3	927.2	1112.8	1304.2	1480.3	1596.9	1639.5	1757.5	2859.6	3895.2	4529.4
22.5°	780.7	976.1	1164.9	1365.4	1532.4	1609.0	1688.1	2213.5	3394.1	4401.2	4690.7
20°	820.8	1019.1	1214.2	1418.7	1579.8	1620.0	1732.4	2696.7	3839.1	4538.8	4833.6
17.5°	856.4	1057.4	1259.5	1457.5	1594.8	1642.6	1830.8	3130.7	4239.6	4663.0	4960.3
15°	887.6	1090.8	1299.1	1491.5	1602.7	1674.7	2183.0	3464.5	4451.2	4771.0	5071.7
12.5°	914.2	1119.4	1332.9	1520.5	1609.5	1702.1	2484.8	3744.3	4538.3	4860.4	5137.0
10°	936.0	1142.8	1360.7	1544.4	1615.1	1724.8	2734.3	3976.0	4610.6	4934.7	5191.4
7.5°	953.1	1161.2	1382.5	1563.1	1619.5	1742.6	2930.1	4157.9	4667.4	4993.3	5234.4
5°	965.3	1174.3	1398.1	1576.5	1622.7	1755.3	3070.8	4288.9	4708.3	5035.5	5265.4
2.5°	972.6	1182.3	1407.5	1584.6	1624.6	1763.0	3155.7	4367.8	4733.0	5061.0	5284.1
0°	975.1	1184.9	1410.6	1587.3	1625.2	1765.6	3184.0	4394.2	4741.3	5069.5	5290.4
-2.5°	972.6	1182.3	1407.5	1584.6	1624.6	1763.0	3155.7	4367.8	4733.0	5061.0	5284.1
-5°	965.3	1174.3	1398.1	1576.5	1622.7	1755.3	3070.8	4288.9	4708.3	5035.5	5265.4
-7.5°	953.1	1161.2	1382.5	1563.1	1619.5	1742.6	2930.1	4157.9	4667.4	4993.3	5234.4
-10°	936.0	1142.8	1360.7	1544.4	1615.1	1724.8	2734.3	3976.0	4610.6	4934.7	5191.4
-12.5°	914.2	1119.4	1332.9	1520.5	1609.5	1702.1	2484.8	3744.3	4538.3	4860.4	5137.0
-15°	887.6	1090.8	1299.1	1491.5	1602.7	1674.7	2183.0	3464.5	4451.2	4771.0	5071.7
-17.5°	856.4	1057.4	1259.5	1457.5	1594.8	1642.6	1830.8	3130.7	4239.6	4663.0	4960.3
-20°	820.8	1019.1	1214.2	1418.7	1579.8	1620.0	1732.4	2696.7	3839.1	4538.8	4833.6



REPORT NUMBER: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	780.7	976.1	1164.9	1365.4	1532.4	1609.0	1688.1	2213.5	3394.1	4401.2	4690.7
-25°	737.3	927.2	1112.8	1304.2	1480.3	1596.9	1639.5	1757.5	2859.6	3895.2	4529.4
-27.5°	691.0	873.7	1055.9	1237.4	1423.5	1570.4	1614.8	1700.7	2243.2	3331.1	4261.4
-30°	640.8	815.9	994.5	1166.8	1348.9	1504.3	1599.6	1639.9	1747.6	2651.1	3618.8
-32.5°	586.9	754.1	927.2	1095.2	1265.4	1433.8	1568.6	1611.7	1678.5	1905.4	2899.3
-35°	534.0	691.0	855.1	1019.1	1177.5	1344.9	1488.4	1593.3	1619.9	1701.9	2067.6
-37.5°	485.3	624.2	778.9	937.7	1090.8	1244.6	1402.5	1525.4	1599.4	1624.1	1709.8
-40°	434.0	553.9	701.4	851.0	1000.0	1142.8	1290.2	1431.6	1544.0	1601.4	1624.1
-42.5°	380.3	494.7	621.4	760.4	903.2	1041.3	1174.3	1313.3	1440.8	1544.0	1599.4
-45°	324.7	433.3	540.9	670.2	801.9	934.8	1062.1	1184.9	1313.3	1431.6	1525.4
-47.5°	266.9	369.7	471.7	576.9	699.8	822.7	945.4	1062.1	1174.3	1290.2	1402.5
-50°	211.0	304.4	400.1	494.9	596.5	709.7	822.7	934.8	1041.3	1142.8	1244.6
-52.5°	164.7	237.0	327.0	415.5	502.7	596.5	699.8	801.9	903.2	1000.0	1090.8
-55°	117.0	181.4	252.0	334.6	415.5	494.9	576.9	670.2	760.4	851.0	937.7
-57.5°	85.0	128.2	187.0	252.0	327.0	400.1	471.7	540.9	621.4	701.4	778.9
-60°	61.9	87.5	128.2	181.4	237.0	304.4	369.7	433.3	494.7	553.9	624.2
-62.5°	41.3	61.9	85.0	117.0	164.7	211.0	266.9	324.7	380.3	434.0	485.3
-65°	33.9	40.5	56.8	77.3	97.3	137.0	177.7	217.0	265.5	313.7	359.7
-67.5°	26.4	32.4	38.2	46.7	64.7	82.1	99.0	133.9	167.8	200.2	233.9
-70°	21.2	24.5	29.3	34.3	39.2	47.1	62.1	76.6	90.4	108.7	136.0
-72.5°	16.3	19.2	22.1	24.9	29.0	33.2	37.2	41.0	49.6	61.2	72.2
-75°	12.2	14.0	16.4	18.8	21.1	23.3	25.7	29.0	32.2	35.2	38.1
-77.5°	8.6	10.1	11.6	13.0	14.5	16.4	18.2	19.9	21.6	23.2	24.7
-80°	5.5	6.3	7.4	8.6	9.7	10.8	11.8	12.8	13.7	14.8	16.0
-82.5°	3.4	3.9	4.5	5.0	5.5	5.9	6.5	7.2	8.0	8.6	9.3
-85°	1.5	1.6	1.9	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4
-87.5°	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

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°	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6
85°	4.6	4.8	5.0	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2
82.5°	9.9	10.5	11.0	11.5	12.0	12.4	12.8	13.1	13.4	13.6	13.8
80°	17.2	18.3	19.3	20.2	21.0	21.8	22.5	23.1	23.7	24.1	24.5
77.5°	26.7	28.8	30.8	32.6	34.3	35.9	37.3	38.5	39.6	40.5	41.3
75°	40.8	45.1	52.9	60.1	66.8	72.9	78.4	83.3	87.5	91.1	94.1
72.5°	82.6	92.4	104.1	122.5	139.5	155.0	169.0	181.4	192.2	201.4	209.0
70°	161.9	186.3	209.2	233.0	259.1	282.9	304.4	323.4	340.1	354.2	365.8
67.5°	273.0	309.8	344.2	376.3	406.0	433.3	457.9	479.7	498.8	515.0	528.3
65°	403.4	445.0	483.9	520.1	553.9	592.1	626.5	657.2	683.9	706.7	725.4
62.5°	534.0	586.9	640.8	691.0	737.3	780.7	820.8	856.4	887.6	914.2	936.0
60°	691.0	754.1	815.9	873.7	927.2	976.1	1019.1	1057.4	1090.8	1119.4	1142.8
57.5°	855.1	927.2	994.5	1055.9	1112.8	1164.9	1214.2	1259.5	1299.1	1332.9	1360.7
55°	1019.1	1095.2	1166.8	1237.4	1304.2	1365.4	1418.7	1457.5	1491.5	1520.5	1544.4
52.5°	1177.5	1265.4	1348.9	1423.5	1480.3	1532.4	1579.8	1594.8	1602.7	1609.5	1615.1
50°	1344.9	1433.8	1504.3	1570.4	1596.9	1609.0	1620.0	1642.6	1674.7	1702.1	1724.8
47.5°	1488.4	1568.6	1599.6	1614.8	1639.5	1688.1	1732.4	1830.8	2183.0	2484.8	2734.3
45°	1593.3	1611.7	1639.9	1700.7	1757.5	2213.5	2696.7	3130.7	3464.5	3744.3	3976.0
42.5°	1619.9	1678.5	1747.6	2243.2	2859.6	3394.1	3839.1	4239.6	4451.2	4538.3	4610.6
40°	1701.9	1905.4	2651.1	3331.1	3895.2	4401.2	4538.8	4663.0	4771.0	4860.4	4934.7
37.5°	2067.6	2899.3	3618.8	4261.4	4529.4	4690.7	4833.6	4960.3	5071.7	5137.0	5191.4
35°	2982.6	3764.3	4420.1	4616.6	4798.6	4962.2	5098.8	5190.9	5272.9	5296.9	5304.1
32.5°	3764.3	4441.6	4660.7	4862.8	5050.0	5174.4	5283.5	5301.7	5312.5	5320.0	5324.6
30°	4420.1	4660.7	4884.4	5086.3	5220.6	5297.3	5311.6	5321.6	5328.4	5342.5	5376.3
27.5°	4616.6	4862.8	5086.3	5236.2	5301.2	5317.5	5326.5	5344.6	5394.6	5438.5	5670.4
25°	4798.6	5050.0	5220.6	5301.2	5318.7	5329.0	5370.7	5430.7	5729.8	6031.2	7228.3
22.5°	4962.2	5174.4	5297.3	5317.5	5329.0	5379.5	5504.0	5911.1	7199.5	9215.3	12794.3
20°	5098.8	5283.5	5311.6	5326.5	5370.7	5504.0	5972.6	7988.8	11169.5	18616.7	25802.4
17.5°	5190.9	5301.7	5321.6	5344.6	5430.7	5911.1	7988.8	12592.9	21635.3	33440.7	44879.7
15°	5272.9	5312.5	5328.4	5394.6	5729.8	7199.5	11169.5	21635.3	36060.7	54080.4	76182.1
12.5°	5296.9	5320.0	5342.5	5438.5	6031.2	9215.3	18616.7	33440.7	54080.4	81550.1	114253.3
10°	5304.1	5324.6	5376.3	5670.4	7228.3	12794.3	25802.4	44879.7	76182.1	114253.3	155683.7
7.5°	5309.8	5328.2	5403.3	5856.6	8484.2	17488.8	34185.3	60701.2	98646.2	144784.9	196020.5
5°	5314.0	5330.9	5422.8	5992.5	9404.8	20949.7	40413.4	72949.7	117574.2	171959.6	230574.4
2.5°	5316.5	5332.5	5434.7	6075.2	9967.2	23072.9	44256.5	80569.9	129491.8	189387.1	253404.4
0°	5317.3	5333.0	5438.7	6103.0	10156.4	23788.8	45556.4	83159.0	133568.7	195414.5	261452.6
-2.5°	5316.5	5332.5	5434.7	6075.2	9967.2	23072.9	44256.5	80569.9	129491.8	189387.1	253404.4
-5°	5314.0	5330.9	5422.8	5992.5	9404.8	20949.7	40413.4	72949.7	117574.2	171959.6	230574.4
-7.5°	5309.8	5328.2	5403.3	5856.6	8484.2	17488.8	34185.3	60701.2	98646.2	144784.9	196020.5
-10°	5304.1	5324.6	5376.3	5670.4	7228.3	12794.3	25802.4	44879.7	76182.1	114253.3	155683.7
-12.5°	5296.9	5320.0	5342.5	5438.5	6031.2	9215.3	18616.7	33440.7	54080.4	81550.1	114253.3
-15°	5272.9	5312.5	5328.4	5394.6	5729.8	7199.5	11169.5	21635.3	36060.7	54080.4	76182.1
-17.5°	5190.9	5301.7	5321.6	5344.6	5430.7	5911.1	7988.8	12592.9	21635.3	33440.7	44879.7
-20°	5098.8	5283.5	5311.6	5326.5	5370.7	5504.0	5972.6	7988.8	11169.5	18616.7	25802.4



REPORT NUMBER: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4962.2	5174.4	5297.3	5317.5	5329.0	5379.5	5504.0	5911.1	7199.5	9215.3	12794.3
-25°	4798.6	5050.0	5220.6	5301.2	5318.7	5329.0	5370.7	5430.7	5729.8	6031.2	7228.3
-27.5°	4616.6	4862.8	5086.3	5236.2	5301.2	5317.5	5326.5	5344.6	5394.6	5438.5	5670.4
-30°	4420.1	4660.7	4884.4	5086.3	5220.6	5297.3	5311.6	5321.6	5328.4	5342.5	5376.3
-32.5°	3764.3	4441.6	4660.7	4862.8	5050.0	5174.4	5283.5	5301.7	5312.5	5320.0	5324.6
-35°	2982.6	3764.3	4420.1	4616.6	4798.6	4962.2	5098.8	5190.9	5272.9	5296.9	5304.1
-37.5°	2067.6	2899.3	3618.8	4261.4	4529.4	4690.7	4833.6	4960.3	5071.7	5137.0	5191.4
-40°	1701.9	1905.4	2651.1	3331.1	3895.2	4401.2	4538.8	4663.0	4771.0	4860.4	4934.7
-42.5°	1619.9	1678.5	1747.6	2243.2	2859.6	3394.1	3839.1	4239.6	4451.2	4538.3	4610.6
-45°	1593.3	1611.7	1639.9	1700.7	1757.5	2213.5	2696.7	3130.7	3464.5	3744.3	3976.0
-47.5°	1488.4	1568.6	1599.6	1614.8	1639.5	1688.1	1732.4	1830.8	2183.0	2484.8	2734.3
-50°	1344.9	1433.8	1504.3	1570.4	1596.9	1609.0	1620.0	1642.6	1674.7	1702.1	1724.8
-52.5°	1177.5	1265.4	1348.9	1423.5	1480.3	1532.4	1579.8	1594.8	1602.7	1609.5	1615.1
-55°	1019.1	1095.2	1166.8	1237.4	1304.2	1365.4	1418.7	1457.5	1491.5	1520.5	1544.4
-57.5°	855.1	927.2	994.5	1055.9	1112.8	1164.9	1214.2	1259.5	1299.1	1332.9	1360.7
-60°	691.0	754.1	815.9	873.7	927.2	976.1	1019.1	1057.4	1090.8	1119.4	1142.8
-62.5°	534.0	586.9	640.8	691.0	737.3	780.7	820.8	856.4	887.6	914.2	936.0
-65°	403.4	445.0	483.9	520.1	553.9	592.1	626.5	657.2	683.9	706.7	725.4
-67.5°	273.0	309.8	344.2	376.3	406.0	433.3	457.9	479.7	498.8	515.0	528.3
-70°	161.9	186.3	209.2	233.0	259.1	282.9	304.4	323.4	340.1	354.2	365.8
-72.5°	82.6	92.4	104.1	122.5	139.5	155.0	169.0	181.4	192.2	201.4	209.0
-75°	40.8	45.1	52.9	60.1	66.8	72.9	78.4	83.3	87.5	91.1	94.1
-77.5°	26.7	28.8	30.8	32.6	34.3	35.9	37.3	38.5	39.6	40.5	41.3
-80°	17.2	18.3	19.3	20.2	21.0	21.8	22.5	23.1	23.7	24.1	24.5
-82.5°	9.9	10.5	11.0	11.5	12.0	12.4	12.8	13.1	13.4	13.6	13.8
-85°	4.6	4.8	5.0	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2
-87.5°	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5
85°	6.2	6.3	6.3	6.3	6.3	6.3	6.2	6.2	6.1	6.0	5.9
82.5°	14.0	14.1	14.2	14.2	14.2	14.1	14.0	13.8	13.6	13.4	13.1
80°	24.8	25.0	25.2	25.2	25.2	25.0	24.8	24.5	24.1	23.7	23.1
77.5°	41.8	42.3	42.5	42.6	42.5	42.3	41.8	41.3	40.5	39.6	38.5
75°	96.4	98.1	99.1	99.4	99.1	98.1	96.4	94.1	91.1	87.5	83.3
72.5°	214.9	219.1	221.7	222.5	221.7	219.1	214.9	209.0	201.4	192.2	181.4
70°	374.9	381.4	385.3	386.6	385.3	381.4	374.9	365.8	354.2	340.1	323.4
67.5°	538.8	546.2	550.7	552.2	550.7	546.2	538.8	528.3	515.0	498.8	479.7
65°	740.0	750.5	756.8	758.9	756.8	750.5	740.0	725.4	706.7	683.9	657.2
62.5°	953.1	965.3	972.6	975.1	972.6	965.3	953.1	936.0	914.2	887.6	856.4
60°	1161.2	1174.3	1182.3	1184.9	1182.3	1174.3	1161.2	1142.8	1119.4	1090.8	1057.4
57.5°	1382.5	1398.1	1407.5	1410.6	1407.5	1398.1	1382.5	1360.7	1332.9	1299.1	1259.5
55°	1563.1	1576.5	1584.6	1587.3	1584.6	1576.5	1563.1	1544.4	1520.5	1491.5	1457.5
52.5°	1619.5	1622.7	1624.6	1625.2	1624.6	1622.7	1619.5	1615.1	1609.5	1602.7	1594.8
50°	1742.6	1755.3	1763.0	1765.6	1763.0	1755.3	1742.6	1724.8	1702.1	1674.7	1642.6
47.5°	2930.1	3070.8	3155.7	3184.0	3155.7	3070.8	2930.1	2734.3	2484.8	2183.0	1830.8
45°	4157.9	4288.9	4367.8	4394.2	4367.8	4288.9	4157.9	3976.0	3744.3	3464.5	3130.7
42.5°	4667.4	4708.3	4733.0	4741.3	4733.0	4708.3	4667.4	4610.6	4538.3	4451.2	4239.6
40°	4993.3	5035.5	5061.0	5069.5	5061.0	5035.5	4993.3	4934.7	4860.4	4771.0	4663.0
37.5°	5234.4	5265.4	5284.1	5290.4	5284.1	5265.4	5234.4	5191.4	5137.0	5071.7	4960.3
35°	5309.8	5314.0	5316.5	5317.3	5316.5	5314.0	5309.8	5304.1	5296.9	5272.9	5190.9
32.5°	5328.2	5330.9	5332.5	5333.0	5332.5	5330.9	5328.2	5324.6	5320.0	5312.5	5301.7
30°	5403.3	5422.8	5434.7	5438.7	5434.7	5422.8	5403.3	5376.3	5342.5	5328.4	5321.6
27.5°	5856.6	5992.5	6075.2	6103.0	6075.2	5992.5	5856.6	5670.4	5438.5	5394.6	5344.6
25°	8484.2	9404.8	9967.2	10156.4	9967.2	9404.8	8484.2	7228.3	6031.2	5729.8	5430.7
22.5°	17488.8	20949.7	23072.9	23788.8	23072.9	20949.7	17488.8	12794.3	9215.3	7199.5	5911.1
20°	34185.3	40413.4	44256.5	45556.4	44256.5	40413.4	34185.3	25802.4	18616.7	11169.5	7988.8
17.5°	60701.2	72949.7	80569.9	83159.0	80569.9	72949.7	60701.2	44879.7	33440.7	21635.3	12592.9
15°	98646.2	117574.2	129491.8	133568.7	129491.8	117574.2	98646.2	76182.1	54080.4	36060.7	21635.3
12.5°	144784.9	171959.6	189387.1	195414.5	189387.1	171959.6	144784.9	114253.3	81550.1	54080.4	33440.7
10°	196020.5	230574.4	253404.4	261452.6	253404.4	230574.4	196020.5	155683.7	114253.3	76182.1	44879.7
7.5°	245830.3	289563.9	322341.3	333450.9	322341.3	289563.9	245830.3	196020.5	144784.9	98646.2	60701.2
5°	289563.9	345386.4	378659.2	390242.1	378659.2	345386.4	289563.9	230574.4	171959.6	117574.2	72949.7
2.5°	322341.3	378659.2	419316.1	441900.8	419316.1	378659.2	322341.3	253404.4	189387.1	129491.8	80569.9
0°	333450.9	390242.1	441900.8	473603.1	441900.8	390242.1	333450.9	261452.6	195414.5	133568.7	83159.0
-2.5°	322341.3	378659.2	419316.1	441900.8	419316.1	378659.2	322341.3	253404.4	189387.1	129491.8	80569.9
-5°	289563.9	345386.4	378659.2	390242.1	378659.2	345386.4	289563.9	230574.4	171959.6	117574.2	72949.7
-7.5°	245830.3	289563.9	322341.3	333450.9	322341.3	289563.9	245830.3	196020.5	144784.9	98646.2	60701.2
-10°	196020.5	230574.4	253404.4	261452.6	253404.4	230574.4	196020.5	155683.7	114253.3	76182.1	44879.7
-12.5°	144784.9	171959.6	189387.1	195414.5	189387.1	171959.6	144784.9	114253.3	81550.1	54080.4	33440.7
-15°	98646.2	117574.2	129491.8	133568.7	129491.8	117574.2	98646.2	76182.1	54080.4	36060.7	21635.3
-17.5°	60701.2	72949.7	80569.9	83159.0	80569.9	72949.7	60701.2	44879.7	33440.7	21635.3	12592.9
-20°	34185.3	40413.4	44256.5	45556.4	44256.5	40413.4	34185.3	25802.4	18616.7	11169.5	7988.8



REPORT NUMBER: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	17488.8	20949.7	23072.9	23788.8	23072.9	20949.7	17488.8	12794.3	9215.3	7199.5	5911.1
-25°	8484.2	9404.8	9967.2	10156.4	9967.2	9404.8	8484.2	7228.3	6031.2	5729.8	5430.7
-27.5°	5856.6	5992.5	6075.2	6103.0	6075.2	5992.5	5856.6	5670.4	5438.5	5394.6	5344.6
-30°	5403.3	5422.8	5434.7	5438.7	5434.7	5422.8	5403.3	5376.3	5342.5	5328.4	5321.6
-32.5°	5328.2	5330.9	5332.5	5333.0	5332.5	5330.9	5328.2	5324.6	5320.0	5312.5	5301.7
-35°	5309.8	5314.0	5316.5	5317.3	5316.5	5314.0	5309.8	5304.1	5296.9	5272.9	5190.9
-37.5°	5234.4	5265.4	5284.1	5290.4	5284.1	5265.4	5234.4	5191.4	5137.0	5071.7	4960.3
-40°	4993.3	5035.5	5061.0	5069.5	5061.0	5035.5	4993.3	4934.7	4860.4	4771.0	4663.0
-42.5°	4667.4	4708.3	4733.0	4741.3	4733.0	4708.3	4667.4	4610.6	4538.3	4451.2	4239.6
-45°	4157.9	4288.9	4367.8	4394.2	4367.8	4288.9	4157.9	3976.0	3744.3	3464.5	3130.7
-47.5°	2930.1	3070.8	3155.7	3184.0	3155.7	3070.8	2930.1	2734.3	2484.8	2183.0	1830.8
-50°	1742.6	1755.3	1763.0	1765.6	1763.0	1755.3	1742.6	1724.8	1702.1	1674.7	1642.6
-52.5°	1619.5	1622.7	1624.6	1625.2	1624.6	1622.7	1619.5	1615.1	1609.5	1602.7	1594.8
-55°	1563.1	1576.5	1584.6	1587.3	1584.6	1576.5	1563.1	1544.4	1520.5	1491.5	1457.5
-57.5°	1382.5	1398.1	1407.5	1410.6	1407.5	1398.1	1382.5	1360.7	1332.9	1299.1	1259.5
-60°	1161.2	1174.3	1182.3	1184.9	1182.3	1174.3	1161.2	1142.8	1119.4	1090.8	1057.4
-62.5°	953.1	965.3	972.6	975.1	972.6	965.3	953.1	936.0	914.2	887.6	856.4
-65°	740.0	750.5	756.8	758.9	756.8	750.5	740.0	725.4	706.7	683.9	657.2
-67.5°	538.8	546.2	550.7	552.2	550.7	546.2	538.8	528.3	515.0	498.8	479.7
-70°	374.9	381.4	385.3	386.6	385.3	381.4	374.9	365.8	354.2	340.1	323.4
-72.5°	214.9	219.1	221.7	222.5	221.7	219.1	214.9	209.0	201.4	192.2	181.4
-75°	96.4	98.1	99.1	99.4	99.1	98.1	96.4	94.1	91.1	87.5	83.3
-77.5°	41.8	42.3	42.5	42.6	42.5	42.3	41.8	41.3	40.5	39.6	38.5
-80°	24.8	25.0	25.2	25.2	25.2	25.0	24.8	24.5	24.1	23.7	23.1
-82.5°	14.0	14.1	14.2	14.2	14.2	14.1	14.0	13.8	13.6	13.4	13.1
-85°	6.2	6.3	6.3	6.3	6.3	6.3	6.2	6.2	6.1	6.0	5.9
-87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5
-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: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

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°	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1
85°	5.7	5.6	5.4	5.2	5.0	4.8	4.6	4.4	4.1	3.8	3.5
82.5°	12.8	12.4	12.0	11.5	11.0	10.5	9.9	9.3	8.6	8.0	7.2
80°	22.5	21.8	21.0	20.2	19.3	18.3	17.2	16.0	14.8	13.7	12.8
77.5°	37.3	35.9	34.3	32.6	30.8	28.8	26.7	24.7	23.2	21.6	19.9
75°	78.4	72.9	66.8	60.1	52.9	45.1	40.8	38.1	35.2	32.2	29.0
72.5°	169.0	155.0	139.5	122.5	104.1	92.4	82.6	72.2	61.2	49.6	41.0
70°	304.4	282.9	259.1	233.0	209.2	186.3	161.9	136.0	108.7	90.4	76.6
67.5°	457.9	433.3	406.0	376.3	344.2	309.8	273.0	233.9	200.2	167.8	133.9
65°	626.5	592.1	553.9	520.1	483.9	445.0	403.4	359.7	313.7	265.5	217.0
62.5°	820.8	780.7	737.3	691.0	640.8	586.9	534.0	485.3	434.0	380.3	324.7
60°	1019.1	976.1	927.2	873.7	815.9	754.1	691.0	624.2	553.9	494.7	433.3
57.5°	1214.2	1164.9	1112.8	1055.9	994.5	927.2	855.1	778.9	701.4	621.4	540.9
55°	1418.7	1365.4	1304.2	1237.4	1166.8	1095.2	1019.1	937.7	851.0	760.4	670.2
52.5°	1579.8	1532.4	1480.3	1423.5	1348.9	1265.4	1177.5	1090.8	1000.0	903.2	801.9
50°	1620.0	1609.0	1596.9	1570.4	1504.3	1433.8	1344.9	1244.6	1142.8	1041.3	934.8
47.5°	1732.4	1688.1	1639.5	1614.8	1599.6	1568.6	1488.4	1402.5	1290.2	1174.3	1062.1
45°	2696.7	2213.5	1757.5	1700.7	1639.9	1611.7	1593.3	1525.4	1431.6	1313.3	1184.9
42.5°	3839.1	3394.1	2859.6	2243.2	1747.6	1678.5	1619.9	1599.4	1544.0	1440.8	1313.3
40°	4538.8	4401.2	3895.2	3331.1	2651.1	1905.4	1701.9	1624.1	1601.4	1544.0	1431.6
37.5°	4833.6	4690.7	4529.4	4261.4	3618.8	2899.3	2067.6	1709.8	1624.1	1599.4	1525.4
35°	5098.8	4962.2	4798.6	4616.6	4420.1	3764.3	2982.6	2067.6	1701.9	1619.9	1593.3
32.5°	5283.5	5174.4	5050.0	4862.8	4660.7	4441.6	3764.3	2899.3	1905.4	1678.5	1611.7
30°	5311.6	5297.3	5220.6	5086.3	4884.4	4660.7	4420.1	3618.8	2651.1	1747.6	1639.9
27.5°	5326.5	5317.5	5301.2	5236.2	5086.3	4862.8	4616.6	4261.4	3331.1	2243.2	1700.7
25°	5370.7	5329.0	5318.7	5301.2	5220.6	5050.0	4798.6	4529.4	3895.2	2859.6	1757.5
22.5°	5504.0	5379.5	5329.0	5317.5	5297.3	5174.4	4962.2	4690.7	4401.2	3394.1	2213.5
20°	5972.6	5504.0	5370.7	5326.5	5311.6	5283.5	5098.8	4833.6	4538.8	3839.1	2696.7
17.5°	7988.8	5911.1	5430.7	5344.6	5321.6	5301.7	5190.9	4960.3	4663.0	4239.6	3130.7
15°	11169.5	7199.5	5729.8	5394.6	5328.4	5312.5	5272.9	5071.7	4771.0	4451.2	3464.5
12.5°	18616.7	9215.3	6031.2	5438.5	5342.5	5320.0	5296.9	5137.0	4860.4	4538.3	3744.3
10°	25802.4	12794.3	7228.3	5670.4	5376.3	5324.6	5304.1	5191.4	4934.7	4610.6	3976.0
7.5°	34185.3	17488.8	8484.2	5856.6	5403.3	5328.2	5309.8	5234.4	4993.3	4667.4	4157.9
5°	40413.4	20949.7	9404.8	5992.5	5422.8	5330.9	5314.0	5265.4	5035.5	4708.3	4288.9
2.5°	44256.5	23072.9	9967.2	6075.2	5434.7	5332.5	5316.5	5284.1	5061.0	4733.0	4367.8
0°	45556.4	23788.8	10156.4	6103.0	5438.7	5333.0	5317.3	5290.4	5069.5	4741.3	4394.2
-2.5°	44256.5	23072.9	9967.2	6075.2	5434.7	5332.5	5316.5	5284.1	5061.0	4733.0	4367.8
-5°	40413.4	20949.7	9404.8	5992.5	5422.8	5330.9	5314.0	5265.4	5035.5	4708.3	4288.9
-7.5°	34185.3	17488.8	8484.2	5856.6	5403.3	5328.2	5309.8	5234.4	4993.3	4667.4	4157.9
-10°	25802.4	12794.3	7228.3	5670.4	5376.3	5324.6	5304.1	5191.4	4934.7	4610.6	3976.0
-12.5°	18616.7	9215.3	6031.2	5438.5	5342.5	5320.0	5296.9	5137.0	4860.4	4538.3	3744.3
-15°	11169.5	7199.5	5729.8	5394.6	5328.4	5312.5	5272.9	5071.7	4771.0	4451.2	3464.5
-17.5°	7988.8	5911.1	5430.7	5344.6	5321.6	5301.7	5190.9	4960.3	4663.0	4239.6	3130.7
-20°	5972.6	5504.0	5370.7	5326.5	5311.6	5283.5	5098.8	4833.6	4538.8	3839.1	2696.7



REPORT NUMBER: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5504.0	5379.5	5329.0	5317.5	5297.3	5174.4	4962.2	4690.7	4401.2	3394.1	2213.5
-25°	5370.7	5329.0	5318.7	5301.2	5220.6	5050.0	4798.6	4529.4	3895.2	2859.6	1757.5
-27.5°	5326.5	5317.5	5301.2	5236.2	5086.3	4862.8	4616.6	4261.4	3331.1	2243.2	1700.7
-30°	5311.6	5297.3	5220.6	5086.3	4884.4	4660.7	4420.1	3618.8	2651.1	1747.6	1639.9
-32.5°	5283.5	5174.4	5050.0	4862.8	4660.7	4441.6	3764.3	2899.3	1905.4	1678.5	1611.7
-35°	5098.8	4962.2	4798.6	4616.6	4420.1	3764.3	2982.6	2067.6	1701.9	1619.9	1593.3
-37.5°	4833.6	4690.7	4529.4	4261.4	3618.8	2899.3	2067.6	1709.8	1624.1	1599.4	1525.4
-40°	4538.8	4401.2	3895.2	3331.1	2651.1	1905.4	1701.9	1624.1	1601.4	1544.0	1431.6
-42.5°	3839.1	3394.1	2859.6	2243.2	1747.6	1678.5	1619.9	1599.4	1544.0	1440.8	1313.3
-45°	2696.7	2213.5	1757.5	1700.7	1639.9	1611.7	1593.3	1525.4	1431.6	1313.3	1184.9
-47.5°	1732.4	1688.1	1639.5	1614.8	1599.6	1568.6	1488.4	1402.5	1290.2	1174.3	1062.1
-50°	1620.0	1609.0	1596.9	1570.4	1504.3	1433.8	1344.9	1244.6	1142.8	1041.3	934.8
-52.5°	1579.8	1532.4	1480.3	1423.5	1348.9	1265.4	1177.5	1090.8	1000.0	903.2	801.9
-55°	1418.7	1365.4	1304.2	1237.4	1166.8	1095.2	1019.1	937.7	851.0	760.4	670.2
-57.5°	1214.2	1164.9	1112.8	1055.9	994.5	927.2	855.1	778.9	701.4	621.4	540.9
-60°	1019.1	976.1	927.2	873.7	815.9	754.1	691.0	624.2	553.9	494.7	433.3
-62.5°	820.8	780.7	737.3	691.0	640.8	586.9	534.0	485.3	434.0	380.3	324.7
-65°	626.5	592.1	553.9	520.1	483.9	445.0	403.4	359.7	313.7	265.5	217.0
-67.5°	457.9	433.3	406.0	376.3	344.2	309.8	273.0	233.9	200.2	167.8	133.9
-70°	304.4	282.9	259.1	233.0	209.2	186.3	161.9	136.0	108.7	90.4	76.6
-72.5°	169.0	155.0	139.5	122.5	104.1	92.4	82.6	72.2	61.2	49.6	41.0
-75°	78.4	72.9	66.8	60.1	52.9	45.1	40.8	38.1	35.2	32.2	29.0
-77.5°	37.3	35.9	34.3	32.6	30.8	28.8	26.7	24.7	23.2	21.6	19.9
-80°	22.5	21.8	21.0	20.2	19.3	18.3	17.2	16.0	14.8	13.7	12.8
-82.5°	12.8	12.4	12.0	11.5	11.0	10.5	9.9	9.3	8.6	8.0	7.2
-85°	5.7	5.6	5.4	5.2	5.0	4.8	4.6	4.4	4.1	3.8	3.5
-87.5°	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1
-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: P413466 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-57-80-2S-HEG

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°	1.1	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.5
85°	3.2	2.9	2.6	2.3	1.9	1.6	1.5	1.4	1.2	1.1	1.0
82.5°	6.5	5.9	5.5	5.0	4.5	3.9	3.4	2.8	2.3	1.7	1.4
80°	11.8	10.8	9.7	8.6	7.4	6.3	5.5	4.8	4.1	3.3	2.5
77.5°	18.2	16.4	14.5	13.0	11.6	10.1	8.6	7.1	5.8	4.9	3.9
75°	25.7	23.3	21.1	18.8	16.4	14.0	12.2	10.3	8.5	6.5	5.3
72.5°	37.2	33.2	29.0	24.9	22.1	19.2	16.3	13.6	11.4	9.2	6.9
70°	62.1	47.1	39.2	34.3	29.3	24.5	21.2	17.8	14.3	11.7	9.2
67.5°	99.0	82.1	64.7	46.7	38.2	32.4	26.4	22.2	18.3	14.3	11.4
65°	177.7	137.0	97.3	77.3	56.8	40.5	33.9	27.2	22.2	17.8	13.6
62.5°	266.9	211.0	164.7	117.0	85.0	61.9	41.3	33.9	26.4	21.2	16.3
60°	369.7	304.4	237.0	181.4	128.2	87.5	61.9	40.5	32.4	24.5	19.2
57.5°	471.7	400.1	327.0	252.0	187.0	128.2	85.0	56.8	38.2	29.3	22.1
55°	576.9	494.9	415.5	334.6	252.0	181.4	117.0	77.3	46.7	34.3	24.9
52.5°	699.8	596.5	502.7	415.5	327.0	237.0	164.7	97.3	64.7	39.2	29.0
50°	822.7	709.7	596.5	494.9	400.1	304.4	211.0	137.0	82.1	47.1	33.2
47.5°	945.4	822.7	699.8	576.9	471.7	369.7	266.9	177.7	99.0	62.1	37.2
45°	1062.1	934.8	801.9	670.2	540.9	433.3	324.7	217.0	133.9	76.6	41.0
42.5°	1174.3	1041.3	903.2	760.4	621.4	494.7	380.3	265.5	167.8	90.4	49.6
40°	1290.2	1142.8	1000.0	851.0	701.4	553.9	434.0	313.7	200.2	108.7	61.2
37.5°	1402.5	1244.6	1090.8	937.7	778.9	624.2	485.3	359.7	233.9	136.0	72.2
35°	1488.4	1344.9	1177.5	1019.1	855.1	691.0	534.0	403.4	273.0	161.9	82.6
32.5°	1568.6	1433.8	1265.4	1095.2	927.2	754.1	586.9	445.0	309.8	186.3	92.4
30°	1599.6	1504.3	1348.9	1166.8	994.5	815.9	640.8	483.9	344.2	209.2	104.1
27.5°	1614.8	1570.4	1423.5	1237.4	1055.9	873.7	691.0	520.1	376.3	233.0	122.5
25°	1639.5	1596.9	1480.3	1304.2	1112.8	927.2	737.3	553.9	406.0	259.1	139.5
22.5°	1688.1	1609.0	1532.4	1365.4	1164.9	976.1	780.7	592.1	433.3	282.9	155.0
20°	1732.4	1620.0	1579.8	1418.7	1214.2	1019.1	820.8	626.5	457.9	304.4	169.0
17.5°	1830.8	1642.6	1594.8	1457.5	1259.5	1057.4	856.4	657.2	479.7	323.4	181.4
15°	2183.0	1674.7	1602.7	1491.5	1299.1	1090.8	887.6	683.9	498.8	340.1	192.2
12.5°	2484.8	1702.1	1609.5	1520.5	1332.9	1119.4	914.2	706.7	515.0	354.2	201.4
10°	2734.3	1724.8	1615.1	1544.4	1360.7	1142.8	936.0	725.4	528.3	365.8	209.0
7.5°	2930.1	1742.6	1619.5	1563.1	1382.5	1161.2	953.1	740.0	538.8	374.9	214.9
5°	3070.8	1755.3	1622.7	1576.5	1398.1	1174.3	965.3	750.5	546.2	381.4	219.1
2.5°	3155.7	1763.0	1624.6	1584.6	1407.5	1182.3	972.6	756.8	550.7	385.3	221.7
0°	3184.0	1765.6	1625.2	1587.3	1410.6	1184.9	975.1	758.9	552.2	386.6	222.5
-2.5°	3155.7	1763.0	1624.6	1584.6	1407.5	1182.3	972.6	756.8	550.7	385.3	221.7
-5°	3070.8	1755.3	1622.7	1576.5	1398.1	1174.3	965.3	750.5	546.2	381.4	219.1
-7.5°	2930.1	1742.6	1619.5	1563.1	1382.5	1161.2	953.1	740.0	538.8	374.9	214.9
-10°	2734.3	1724.8	1615.1	1544.4	1360.7	1142.8	936.0	725.4	528.3	365.8	209.0
-12.5°	2484.8	1702.1	1609.5	1520.5	1332.9	1119.4	914.2	706.7	515.0	354.2	201.4
-15°	2183.0	1674.7	1602.7	1491.5	1299.1	1090.8	887.6	683.9	498.8	340.1	192.2
-17.5°	1830.8	1642.6	1594.8	1457.5	1259.5	1057.4	856.4	657.2	479.7	323.4	181.4
-20°	1732.4	1620.0	1579.8	1418.7	1214.2	1019.1	820.8	626.5	457.9	304.4	169.0



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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°	1688.1	1609.0	1532.4	1365.4	1164.9	976.1	780.7	592.1	433.3	282.9	155.0
-25°	1639.5	1596.9	1480.3	1304.2	1112.8	927.2	737.3	553.9	406.0	259.1	139.5
-27.5°	1614.8	1570.4	1423.5	1237.4	1055.9	873.7	691.0	520.1	376.3	233.0	122.5
-30°	1599.6	1504.3	1348.9	1166.8	994.5	815.9	640.8	483.9	344.2	209.2	104.1
-32.5°	1568.6	1433.8	1265.4	1095.2	927.2	754.1	586.9	445.0	309.8	186.3	92.4
-35°	1488.4	1344.9	1177.5	1019.1	855.1	691.0	534.0	403.4	273.0	161.9	82.6
-37.5°	1402.5	1244.6	1090.8	937.7	778.9	624.2	485.3	359.7	233.9	136.0	72.2
-40°	1290.2	1142.8	1000.0	851.0	701.4	553.9	434.0	313.7	200.2	108.7	61.2
-42.5°	1174.3	1041.3	903.2	760.4	621.4	494.7	380.3	265.5	167.8	90.4	49.6
-45°	1062.1	934.8	801.9	670.2	540.9	433.3	324.7	217.0	133.9	76.6	41.0
-47.5°	945.4	822.7	699.8	576.9	471.7	369.7	266.9	177.7	99.0	62.1	37.2
-50°	822.7	709.7	596.5	494.9	400.1	304.4	211.0	137.0	82.1	47.1	33.2
-52.5°	699.8	596.5	502.7	415.5	327.0	237.0	164.7	97.3	64.7	39.2	29.0
-55°	576.9	494.9	415.5	334.6	252.0	181.4	117.0	77.3	46.7	34.3	24.9
-57.5°	471.7	400.1	327.0	252.0	187.0	128.2	85.0	56.8	38.2	29.3	22.1
-60°	369.7	304.4	237.0	181.4	128.2	87.5	61.9	40.5	32.4	24.5	19.2
-62.5°	266.9	211.0	164.7	117.0	85.0	61.9	41.3	33.9	26.4	21.2	16.3
-65°	177.7	137.0	97.3	77.3	56.8	40.5	33.9	27.2	22.2	17.8	13.6
-67.5°	99.0	82.1	64.7	46.7	38.2	32.4	26.4	22.2	18.3	14.3	11.4
-70°	62.1	47.1	39.2	34.3	29.3	24.5	21.2	17.8	14.3	11.7	9.2
-72.5°	37.2	33.2	29.0	24.9	22.1	19.2	16.3	13.6	11.4	9.2	6.9
-75°	25.7	23.3	21.1	18.8	16.4	14.0	12.2	10.3	8.5	6.5	5.3
-77.5°	18.2	16.4	14.5	13.0	11.6	10.1	8.6	7.1	5.8	4.9	3.9
-80°	11.8	10.8	9.7	8.6	7.4	6.3	5.5	4.8	4.1	3.3	2.5
-82.5°	6.5	5.9	5.5	5.0	4.5	3.9	3.4	2.8	2.3	1.7	1.4
-85°	3.2	2.9	2.6	2.3	1.9	1.6	1.5	1.4	1.2	1.1	1.0
-87.5°	1.1	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.5
-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°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
85°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
82.5°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
80°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
77.5°	2.9	1.9	1.4	1.0	0.7	0.3	0.0
75°	4.1	2.9	1.7	1.2	0.8	0.4	0.0
72.5°	5.3	3.9	2.5	1.4	1.0	0.5	0.0
70°	6.5	4.9	3.3	1.7	1.1	0.5	0.0
67.5°	8.5	5.8	4.1	2.3	1.2	0.6	0.0
65°	10.3	7.1	4.8	2.8	1.4	0.7	0.0
62.5°	12.2	8.6	5.5	3.4	1.5	0.7	0.0
60°	14.0	10.1	6.3	3.9	1.6	0.8	0.0
57.5°	16.4	11.6	7.4	4.5	1.9	0.9	0.0
55°	18.8	13.0	8.6	5.0	2.3	0.9	0.0
52.5°	21.1	14.5	9.7	5.5	2.6	1.0	0.0
50°	23.3	16.4	10.8	5.9	2.9	1.0	0.0
47.5°	25.7	18.2	11.8	6.5	3.2	1.1	0.0
45°	29.0	19.9	12.8	7.2	3.5	1.1	0.0
42.5°	32.2	21.6	13.7	8.0	3.8	1.2	0.0
40°	35.2	23.2	14.8	8.6	4.1	1.2	0.0
37.5°	38.1	24.7	16.0	9.3	4.4	1.3	0.0
35°	40.8	26.7	17.2	9.9	4.6	1.3	0.0
32.5°	45.1	28.8	18.3	10.5	4.8	1.3	0.0
30°	52.9	30.8	19.3	11.0	5.0	1.4	0.0
27.5°	60.1	32.6	20.2	11.5	5.2	1.4	0.0
25°	66.8	34.3	21.0	12.0	5.4	1.5	0.0
22.5°	72.9	35.9	21.8	12.4	5.6	1.5	0.0
20°	78.4	37.3	22.5	12.8	5.7	1.5	0.0
17.5°	83.3	38.5	23.1	13.1	5.9	1.5	0.0
15°	87.5	39.6	23.7	13.4	6.0	1.5	0.0
12.5°	91.1	40.5	24.1	13.6	6.1	1.6	0.0
10°	94.1	41.3	24.5	13.8	6.2	1.6	0.0
7.5°	96.4	41.8	24.8	14.0	6.2	1.6	0.0
5°	98.1	42.3	25.0	14.1	6.3	1.6	0.0
2.5°	99.1	42.5	25.2	14.2	6.3	1.6	0.0
0°	99.4	42.6	25.2	14.2	6.3	1.6	0.0
-2.5°	99.1	42.5	25.2	14.2	6.3	1.6	0.0
-5°	98.1	42.3	25.0	14.1	6.3	1.6	0.0
-7.5°	96.4	41.8	24.8	14.0	6.2	1.6	0.0
-10°	94.1	41.3	24.5	13.8	6.2	1.6	0.0
-12.5°	91.1	40.5	24.1	13.6	6.1	1.6	0.0
-15°	87.5	39.6	23.7	13.4	6.0	1.5	0.0
-17.5°	83.3	38.5	23.1	13.1	5.9	1.5	0.0
-20°	78.4	37.3	22.5	12.8	5.7	1.5	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	72.9	35.9	21.8	12.4	5.6	1.5	0.0
-25°	66.8	34.3	21.0	12.0	5.4	1.5	0.0
-27.5°	60.1	32.6	20.2	11.5	5.2	1.4	0.0
-30°	52.9	30.8	19.3	11.0	5.0	1.4	0.0
-32.5°	45.1	28.8	18.3	10.5	4.8	1.3	0.0
-35°	40.8	26.7	17.2	9.9	4.6	1.3	0.0
-37.5°	38.1	24.7	16.0	9.3	4.4	1.3	0.0
-40°	35.2	23.2	14.8	8.6	4.1	1.2	0.0
-42.5°	32.2	21.6	13.7	8.0	3.8	1.2	0.0
-45°	29.0	19.9	12.8	7.2	3.5	1.1	0.0
-47.5°	25.7	18.2	11.8	6.5	3.2	1.1	0.0
-50°	23.3	16.4	10.8	5.9	2.9	1.0	0.0
-52.5°	21.1	14.5	9.7	5.5	2.6	1.0	0.0
-55°	18.8	13.0	8.6	5.0	2.3	0.9	0.0
-57.5°	16.4	11.6	7.4	4.5	1.9	0.9	0.0
-60°	14.0	10.1	6.3	3.9	1.6	0.8	0.0
-62.5°	12.2	8.6	5.5	3.4	1.5	0.7	0.0
-65°	10.3	7.1	4.8	2.8	1.4	0.7	0.0
-67.5°	8.5	5.8	4.1	2.3	1.2	0.6	0.0
-70°	6.5	4.9	3.3	1.7	1.1	0.5	0.0
-72.5°	5.3	3.9	2.5	1.4	1.0	0.5	0.0
-75°	4.1	2.9	1.7	1.2	0.8	0.4	0.0
-77.5°	2.9	1.9	1.4	1.0	0.7	0.3	0.0
-80°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
-82.5°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
-85°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
-87.5°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)