

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: P1305383 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-640L-40-80-1S-HEG-A**

Issue Date: 2/3/2026

Test Information

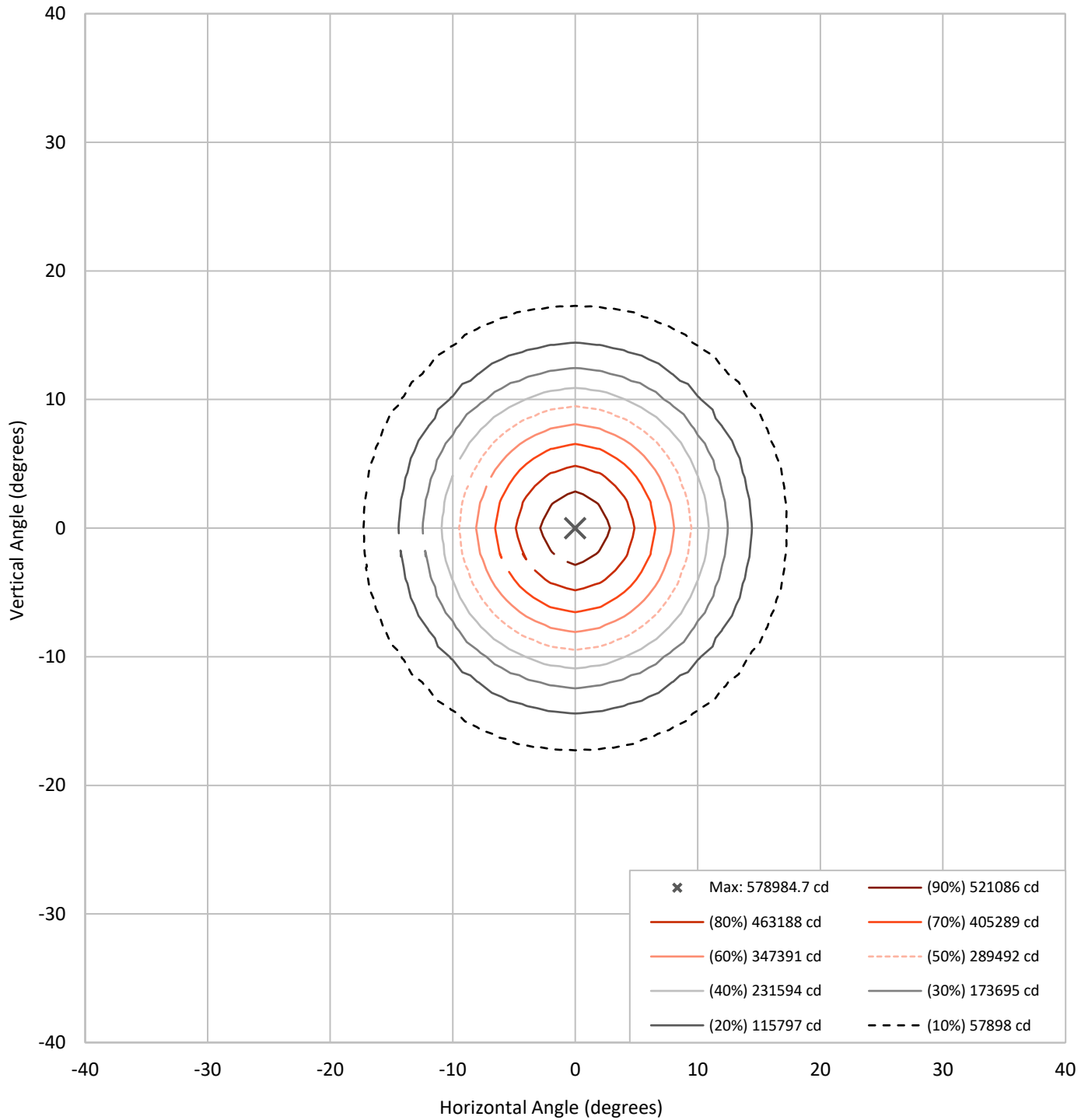
Test Method: LM-79-08
Report Number: P1305383 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)
Test Lab: INNOVATION CENTER
Issue Date: 2/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-08-640L-40-80-1S-HEG-A
Description: EPHEBUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	78432.5 lumens	Max Intensity:	578984.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	115.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	33805.4 lumens	Field Lumens:	62276.9 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%
Input Watts (W):	677		
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



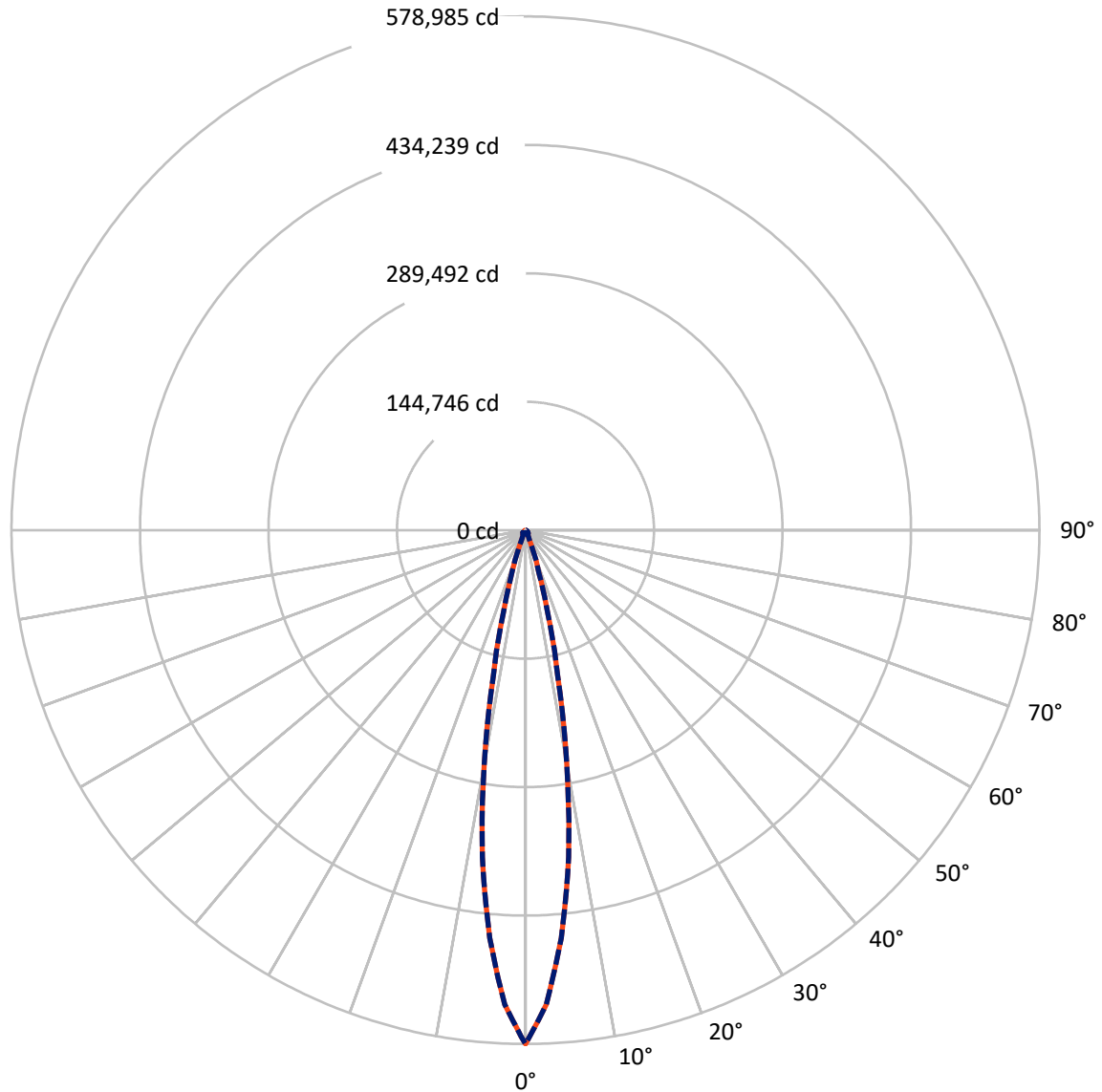
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Lumen Table

90	0.1	0.7		2.7		6.8		9.0		6.8		2.7		0.7		0.1			
80	0.1	0.7		2.7		6.8		9.0		6.8		2.7		0.7		0.1			
70	0.3	0.4	1.6	4.9	9.9	15.3	19.8	22.3	22.3	19.8	15.3	9.9	4.9	1.6	0.4	0.3			
60		1.2	5.8	14.2	24.4	33.0	38.7	41.7	41.7	38.7	33.0	24.4	14.2	5.8	1.2				
50	0.9	3.0	11.6	24.2	35.4	59.9	94.4	113.4	113.4	94.4	59.9	35.4	24.2	11.6	3.0	0.9			
40		5.3	17.3	30.6	72.4	123.8	136.8	137.1	137.1	136.8	123.8	72.4	30.6	17.3	5.3				
30	2.0	7.4	21.1	47.3	112.0	124.1	136.3	236.3	236.3	136.3	124.1	112.0	47.3	21.1	7.4	2.0			
20		8.9	23.1	70.1	116.0	128.1	749.0	2796.8	2796.8	749.0	128.1	116.0	70.1	23.1	8.9				
10	2.5	9.8	24.1	81.4	112.5	217.4	2729.0	10739.9	10739.9	2729.0	217.4	112.5	81.4	24.1	9.8	2.5			
0		9.8	24.1	81.4	112.5	217.4	2729.0	10739.9	10739.9	2729.0	217.4	112.5	81.4	24.1	9.8				
-10	2.0	8.9	23.1	70.1	116.0	128.1	749.0	2796.8	2796.8	749.0	128.1	116.0	70.1	23.1	8.9	2.0			
-20		7.4	21.1	47.3	112.0	124.1	136.3	236.3	236.3	136.3	124.1	112.0	47.3	21.1	7.4				
-30	0.9	5.3	17.3	30.6	72.4	123.8	136.8	137.1	137.1	136.8	123.8	72.4	30.6	17.3	5.3	0.9			
-40		3.0	11.6	24.2	35.4	59.9	94.4	113.4	113.4	94.4	59.9	35.4	24.2	11.6	3.0				
-50	0.3	1.2	5.8	14.2	24.4	33.0	38.7	41.7	41.7	38.7	33.0	24.4	14.2	5.8	1.2	0.3			
-60		0.4	1.6	4.9	9.9	15.3	19.8	22.3	22.3	19.8	15.3	9.9	4.9	1.6	0.4				
-70	0.1	0.7		2.7		6.8		9.0		6.8		2.7		0.7		0.1			
-80		0.7		2.7		6.8		9.0		6.8		2.7		0.7					
-90	0.1	0.7		2.7		6.8		9.0		6.8		2.7		0.7		0.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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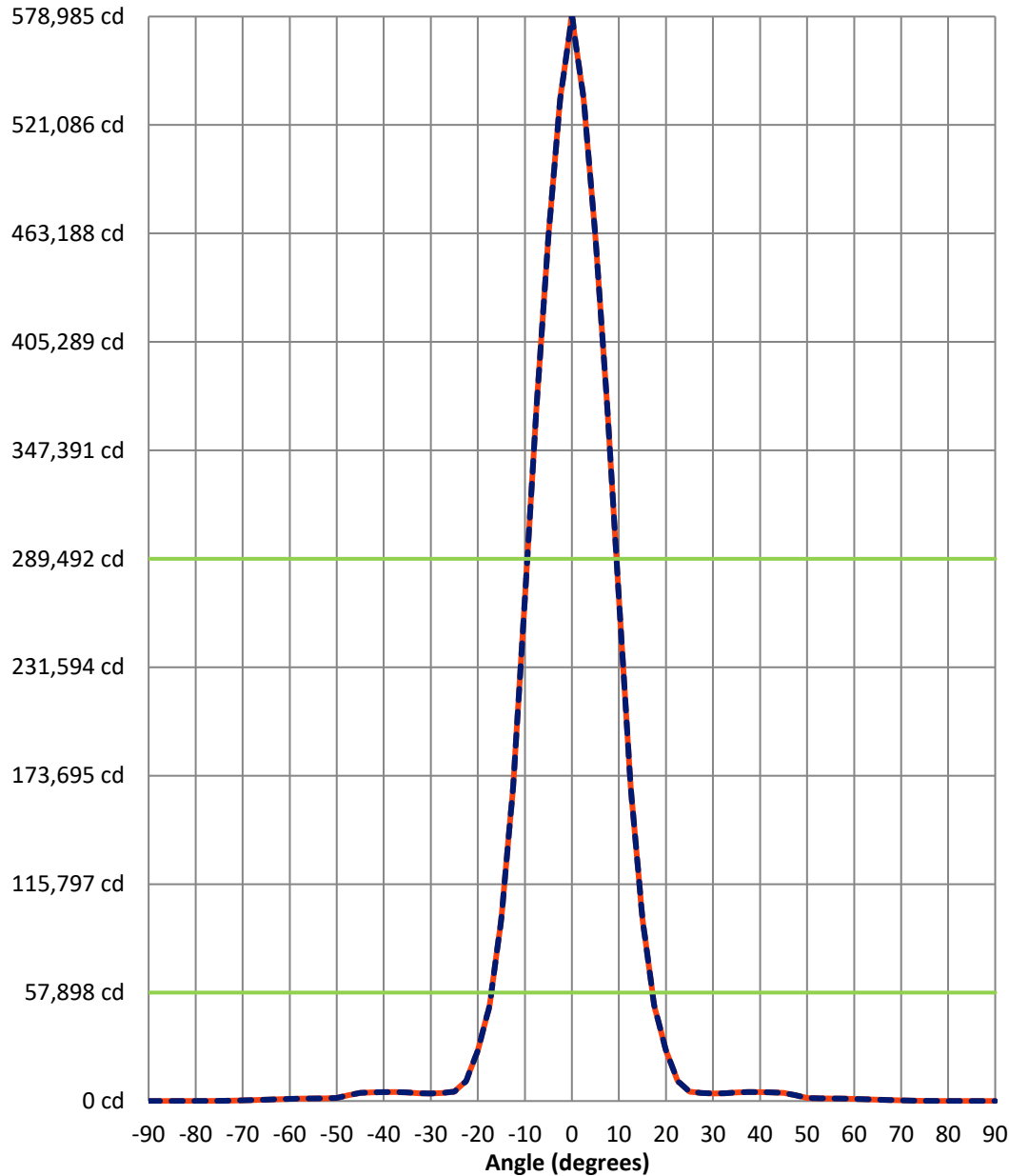
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 19°
 Lumens: 33805.4
 Efficiency: 43.1%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 62276.9
 Efficiency: 79.4%

Spill:
 Lumens: 16155.5
 Efficiency: 20.6%

- 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	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.3
85°	0.0	0.5	1.0	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.6
82.5°	0.0	0.7	1.4	2.1	2.9	3.6	4.3	4.9	5.6	6.1	6.6
80°	0.0	1.0	1.9	2.9	3.8	4.7	5.6	6.3	7.0	7.7	8.4
77.5°	0.0	1.2	2.4	3.6	4.7	5.8	6.7	7.6	8.4	9.3	10.5
75°	0.0	1.4	2.8	4.3	5.6	6.7	7.8	8.8	10.0	12.0	13.9
72.5°	0.0	1.7	3.3	4.9	6.3	7.6	8.8	10.3	12.7	15.0	17.3
70°	0.0	1.9	3.8	5.6	7.0	8.4	10.0	12.7	15.4	18.1	21.1
67.5°	0.0	2.1	4.2	6.1	7.7	9.3	12.0	15.0	18.1	21.6	25.0
65°	0.0	2.3	4.6	6.6	8.4	10.5	13.9	17.3	21.1	25.0	29.6
62.5°	0.0	2.5	5.1	7.1	9.0	12.1	15.9	19.9	24.2	28.9	36.1
60°	0.0	2.7	5.5	7.6	9.7	13.7	17.8	22.5	27.1	34.6	42.4
57.5°	0.0	3.0	5.8	8.1	10.9	15.3	19.9	25.0	31.6	40.2	58.2
55°	0.0	3.2	6.1	8.5	12.1	16.8	22.0	27.4	36.5	48.4	78.3
52.5°	0.0	3.3	6.4	9.0	13.2	18.3	24.1	31.4	41.2	65.9	97.8
50°	0.0	3.5	6.7	9.4	14.4	19.9	26.1	35.3	48.8	83.0	134.5
47.5°	0.0	3.7	7.0	9.9	15.5	21.5	28.2	39.2	63.5	99.4	172.1
45°	0.0	3.9	7.2	10.7	16.5	23.1	31.3	42.9	77.5	131.6	208.4
42.5°	0.0	4.1	7.5	11.4	17.5	24.5	34.4	51.2	91.1	162.9	253.8
40°	0.0	4.2	7.7	12.2	18.6	25.9	37.3	62.5	108.4	192.9	299.0
37.5°	0.0	4.4	8.0	12.8	19.6	27.3	40.1	73.3	133.6	224.2	342.2
35°	0.0	4.5	8.2	13.5	20.6	29.1	42.7	83.4	157.6	260.8	384.6
32.5°	0.0	4.6	8.4	14.1	21.6	31.2	46.8	93.0	180.1	295.3	427.0
30°	0.0	4.8	8.6	14.6	22.5	33.1	54.4	104.1	201.2	327.7	466.8
27.5°	0.0	4.9	8.7	15.2	23.3	34.8	61.5	121.2	223.4	357.7	503.8
25°	0.0	5.0	8.9	15.7	24.0	36.5	68.0	136.9	247.8	387.3	538.3
22.5°	0.0	5.1	9.1	16.1	24.7	38.0	74.0	151.2	270.2	415.1	575.9
20°	0.0	5.2	9.2	16.5	25.3	39.3	79.3	164.1	290.3	440.2	609.9
17.5°	0.0	5.2	9.3	16.8	25.9	40.5	84.1	175.6	308.2	462.5	640.1
15°	0.0	5.3	9.4	17.1	26.4	41.5	88.2	185.6	323.8	482.0	666.5
12.5°	0.0	5.4	9.5	17.4	26.8	42.4	91.7	194.0	337.0	498.6	688.9
10°	0.0	5.4	9.6	17.6	27.1	43.1	94.6	201.0	347.9	512.2	707.4
7.5°	0.0	5.5	9.6	17.8	27.4	43.7	96.9	206.5	356.4	522.9	721.8
5°	0.0	5.5	9.7	17.9	27.6	44.1	98.5	210.4	362.5	530.5	732.1
2.5°	0.0	5.5	9.7	18.0	27.7	44.3	99.5	212.7	366.2	535.1	738.3
0°	0.0	5.5	9.7	18.0	27.7	44.4	99.8	213.5	367.4	536.6	740.4
-2.5°	0.0	5.5	9.7	18.0	27.7	44.3	99.5	212.7	366.2	535.1	738.3
-5°	0.0	5.5	9.7	17.9	27.6	44.1	98.5	210.4	362.5	530.5	732.1
-7.5°	0.0	5.5	9.6	17.8	27.4	43.7	96.9	206.5	356.4	522.9	721.8
-10°	0.0	5.4	9.6	17.6	27.1	43.1	94.6	201.0	347.9	512.2	707.4
-12.5°	0.0	5.4	9.5	17.4	26.8	42.4	91.7	194.0	337.0	498.6	688.9
-15°	0.0	5.3	9.4	17.1	26.4	41.5	88.2	185.6	323.8	482.0	666.5
-17.5°	0.0	5.2	9.3	16.8	25.9	40.5	84.1	175.6	308.2	462.5	640.1
-20°	0.0	5.2	9.2	16.5	25.3	39.3	79.3	164.1	290.3	440.2	609.9



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 CATALOG NUMBER: EPH-08-640L-40-80-1S-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	5.1	9.1	16.1	24.7	38.0	74.0	151.2	270.2	415.1	575.9
-25°	0.0	5.0	8.9	15.7	24.0	36.5	68.0	136.9	247.8	387.3	538.3
-27.5°	0.0	4.9	8.7	15.2	23.3	34.8	61.5	121.2	223.4	357.7	503.8
-30°	0.0	4.8	8.6	14.6	22.5	33.1	54.4	104.1	201.2	327.7	466.8
-32.5°	0.0	4.6	8.4	14.1	21.6	31.2	46.8	93.0	180.1	295.3	427.0
-35°	0.0	4.5	8.2	13.5	20.6	29.1	42.7	83.4	157.6	260.8	384.6
-37.5°	0.0	4.4	8.0	12.8	19.6	27.3	40.1	73.3	133.6	224.2	342.2
-40°	0.0	4.2	7.7	12.2	18.6	25.9	37.3	62.5	108.4	192.9	299.0
-42.5°	0.0	4.1	7.5	11.4	17.5	24.5	34.4	51.2	91.1	162.9	253.8
-45°	0.0	3.9	7.2	10.7	16.5	23.1	31.3	42.9	77.5	131.6	208.4
-47.5°	0.0	3.7	7.0	9.9	15.5	21.5	28.2	39.2	63.5	99.4	172.1
-50°	0.0	3.5	6.7	9.4	14.4	19.9	26.1	35.3	48.8	83.0	134.5
-52.5°	0.0	3.3	6.4	9.0	13.2	18.3	24.1	31.4	41.2	65.9	97.8
-55°	0.0	3.2	6.1	8.5	12.1	16.8	22.0	27.4	36.5	48.4	78.3
-57.5°	0.0	3.0	5.8	8.1	10.9	15.3	19.9	25.0	31.6	40.2	58.2
-60°	0.0	2.7	5.5	7.6	9.7	13.7	17.8	22.5	27.1	34.6	42.4
-62.5°	0.0	2.5	5.1	7.1	9.0	12.1	15.9	19.9	24.2	28.9	36.1
-65°	0.0	2.3	4.6	6.6	8.4	10.5	13.9	17.3	21.1	25.0	29.6
-67.5°	0.0	2.1	4.2	6.1	7.7	9.3	12.0	15.0	18.1	21.6	25.0
-70°	0.0	1.9	3.8	5.6	7.0	8.4	10.0	12.7	15.4	18.1	21.1
-72.5°	0.0	1.7	3.3	4.9	6.3	7.6	8.8	10.3	12.7	15.0	17.3
-75°	0.0	1.4	2.8	4.3	5.6	6.7	7.8	8.8	10.0	12.0	13.9
-77.5°	0.0	1.2	2.4	3.6	4.7	5.8	6.7	7.6	8.4	9.3	10.5
-80°	0.0	1.0	1.9	2.9	3.8	4.7	5.6	6.3	7.0	7.7	8.4
-82.5°	0.0	0.7	1.4	2.1	2.9	3.6	4.3	4.9	5.6	6.1	6.6
-85°	0.0	0.5	1.0	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.6
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.3
-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°	2.5	2.7	3.0	3.2	3.3	3.5	3.7	3.9	4.1	4.2	4.4
85°	5.1	5.5	5.8	6.1	6.4	6.7	7.0	7.2	7.5	7.7	8.0
82.5°	7.1	7.6	8.1	8.5	9.0	9.4	9.9	10.7	11.4	12.2	12.8
80°	9.0	9.7	10.9	12.1	13.2	14.4	15.5	16.5	17.5	18.6	19.6
77.5°	12.1	13.7	15.3	16.8	18.3	19.9	21.5	23.1	24.5	25.9	27.3
75°	15.9	17.8	19.9	22.0	24.1	26.1	28.2	31.3	34.4	37.3	40.1
72.5°	19.9	22.5	25.0	27.4	31.4	35.3	39.2	42.9	51.2	62.5	73.3
70°	24.2	27.1	31.6	36.5	41.2	48.8	63.5	77.5	91.1	108.4	133.6
67.5°	28.9	34.6	40.2	48.4	65.9	83.0	99.4	131.6	162.9	192.9	224.2
65°	36.1	42.4	58.2	78.3	97.8	134.5	172.1	208.4	253.8	299.0	342.2
62.5°	43.1	63.2	85.7	116.1	160.1	202.9	255.2	309.3	361.5	415.8	468.2
60°	63.2	88.2	126.4	175.6	227.1	290.3	351.6	415.1	477.8	538.3	607.6
57.5°	85.7	126.4	180.7	241.2	311.5	381.2	454.3	525.0	604.8	683.8	759.9
55°	116.1	175.6	241.2	318.6	397.0	478.0	561.0	653.0	741.8	830.1	914.7
52.5°	160.1	227.1	311.5	397.0	486.0	580.3	682.1	782.3	881.0	974.3	1058.9
50°	202.9	290.3	381.2	478.0	580.3	691.9	802.6	911.8	1012.8	1107.4	1191.7
47.5°	252.2	351.6	454.3	561.0	682.1	802.6	922.1	1032.1	1136.8	1226.2	1311.1
45°	309.3	415.1	525.0	653.0	782.3	911.8	1032.1	1146.6	1243.6	1323.8	1353.2
42.5°	361.5	477.8	604.8	741.8	881.0	1012.8	1136.8	1243.6	1326.7	1359.0	1396.5
40°	415.8	538.3	683.8	830.1	974.3	1107.4	1226.2	1323.8	1359.0	1400.5	1445.3
37.5°	468.2	607.6	759.9	914.7	1058.9	1191.7	1311.1	1353.2	1396.5	1445.3	1579.5
35°	518.0	673.4	834.1	992.1	1139.7	1267.5	1341.6	1384.5	1437.1	1567.3	1977.2
32.5°	570.8	735.6	904.4	1063.0	1207.5	1324.5	1366.7	1420.8	1530.6	1810.3	2832.4
30°	623.9	795.9	969.1	1129.7	1270.6	1346.6	1396.8	1470.4	1638.6	2577.1	3568.9
27.5°	673.4	852.3	1026.4	1186.3	1321.2	1367.3	1427.0	1565.3	2157.7	3275.2	4224.9
25°	719.1	904.4	1079.4	1236.8	1339.0	1391.5	1469.9	1654.0	2791.6	3851.1	4461.0
22.5°	761.6	952.1	1128.0	1283.1	1355.4	1415.5	1545.7	2127.2	3339.6	4365.7	4580.8
20°	800.7	992.1	1168.7	1319.7	1370.2	1437.3	1614.8	2624.0	3793.8	4468.0	4662.1
17.5°	835.5	1027.8	1203.0	1331.9	1387.3	1474.6	1733.6	3070.3	4202.7	4560.2	4722.0
15°	865.8	1058.9	1232.9	1342.6	1403.1	1524.7	2095.8	3411.5	4402.9	4632.5	4774.2
12.5°	891.7	1085.5	1258.4	1351.6	1416.5	1567.5	2406.1	3697.1	4467.6	4674.8	4788.5
10°	913.0	1107.4	1279.5	1359.1	1427.6	1602.9	2662.7	3933.6	4521.3	4709.9	4800.5
7.5°	929.6	1124.5	1295.9	1365.0	1436.3	1630.7	2864.0	4119.3	4563.5	4737.6	4809.9
5°	941.5	1136.8	1307.7	1369.2	1442.5	1650.6	3008.7	4253.0	4593.9	4757.6	4816.7
2.5°	948.7	1144.1	1314.8	1371.8	1446.2	1662.6	3096.0	4333.6	4612.3	4769.7	4820.8
0°	951.1	1146.6	1317.2	1372.6	1447.5	1666.6	3125.1	4360.5	4618.4	4773.7	4822.2
-2.5°	948.7	1144.1	1314.8	1371.8	1446.2	1662.6	3096.0	4333.6	4612.3	4769.7	4820.8
-5°	941.5	1136.8	1307.7	1369.2	1442.5	1650.6	3008.7	4253.0	4593.9	4757.6	4816.7
-7.5°	929.6	1124.5	1295.9	1365.0	1436.3	1630.7	2864.0	4119.3	4563.5	4737.6	4809.9
-10°	913.0	1107.4	1279.5	1359.1	1427.6	1602.9	2662.7	3933.6	4521.3	4709.9	4800.5
-12.5°	891.7	1085.5	1258.4	1351.6	1416.5	1567.5	2406.1	3697.1	4467.6	4674.8	4788.5
-15°	865.8	1058.9	1232.9	1342.6	1403.1	1524.7	2095.8	3411.5	4402.9	4632.5	4774.2
-17.5°	835.5	1027.8	1203.0	1331.9	1387.3	1474.6	1733.6	3070.3	4202.7	4560.2	4722.0
-20°	800.7	992.1	1168.7	1319.7	1370.2	1437.3	1614.8	2624.0	3793.8	4468.0	4662.1



REPORT NUMBER: P1305383 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-1S-HEG-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	761.6	952.1	1128.0	1283.1	1355.4	1415.5	1545.7	2127.2	3339.6	4365.7	4580.8
-25°	719.1	904.4	1079.4	1236.8	1339.0	1391.5	1469.9	1654.0	2791.6	3851.1	4461.0
-27.5°	673.4	852.3	1026.4	1186.3	1321.2	1367.3	1427.0	1565.3	2157.7	3275.2	4224.9
-30°	623.9	795.9	969.1	1129.7	1270.6	1346.6	1396.8	1470.4	1638.6	2577.1	3568.9
-32.5°	570.8	735.6	904.4	1063.0	1207.5	1324.5	1366.7	1420.8	1530.6	1810.3	2832.4
-35°	518.0	673.4	834.1	992.1	1139.7	1267.5	1341.6	1384.5	1437.1	1567.3	1977.2
-37.5°	468.2	607.6	759.9	914.7	1058.9	1191.7	1311.1	1353.2	1396.5	1445.3	1579.5
-40°	415.8	538.3	683.8	830.1	974.3	1107.4	1226.2	1323.8	1359.0	1400.5	1445.3
-42.5°	361.5	477.8	604.8	741.8	881.0	1012.8	1136.8	1243.6	1326.7	1359.0	1396.5
-45°	309.3	415.1	525.0	653.0	782.3	911.8	1032.1	1146.6	1243.6	1323.8	1353.2
-47.5°	255.2	351.6	454.3	561.0	682.1	802.6	922.1	1032.1	1136.8	1226.2	1311.1
-50°	202.9	290.3	381.2	478.0	580.3	691.9	802.6	911.8	1012.8	1107.4	1191.7
-52.5°	160.1	227.1	311.5	397.0	486.0	580.3	682.1	782.3	881.0	974.3	1058.9
-55°	116.1	175.6	241.2	318.6	397.0	478.0	561.0	653.0	741.8	830.1	914.7
-57.5°	85.7	126.4	180.7	241.2	311.5	381.2	454.3	525.0	604.8	683.8	759.9
-60°	63.2	88.2	126.4	175.6	227.1	290.3	351.6	415.1	477.8	538.3	607.6
-62.5°	43.1	63.2	85.7	116.1	160.1	202.9	255.2	309.3	361.5	415.8	468.2
-65°	36.1	42.4	58.2	78.3	97.8	134.5	172.1	208.4	253.8	299.0	342.2
-67.5°	28.9	34.6	40.2	48.4	65.9	83.0	99.4	131.6	162.9	192.9	224.2
-70°	24.2	27.1	31.6	36.5	41.2	48.8	63.5	77.5	91.1	108.4	133.6
-72.5°	19.9	22.5	25.0	27.4	31.4	35.3	39.2	42.9	51.2	62.5	73.3
-75°	15.9	17.8	19.9	22.0	24.1	26.1	28.2	31.3	34.4	37.3	40.1
-77.5°	12.1	13.7	15.3	16.8	18.3	19.9	21.5	23.1	24.5	25.9	27.3
-80°	9.0	9.7	10.9	12.1	13.2	14.4	15.5	16.5	17.5	18.6	19.6
-82.5°	7.1	7.6	8.1	8.5	9.0	9.4	9.9	10.7	11.4	12.2	12.8
-85°	5.1	5.5	5.8	6.1	6.4	6.7	7.0	7.2	7.5	7.7	8.0
-87.5°	2.5	2.7	3.0	3.2	3.3	3.5	3.7	3.9	4.1	4.2	4.4
-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°	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.4
85°	8.2	8.4	8.6	8.7	8.9	9.1	9.2	9.3	9.4	9.5	9.6
82.5°	13.5	14.1	14.6	15.2	15.7	16.1	16.5	16.8	17.1	17.4	17.6
80°	20.6	21.6	22.5	23.3	24.0	24.7	25.3	25.9	26.4	26.8	27.1
77.5°	29.1	31.2	33.1	34.8	36.5	38.0	39.3	40.5	41.5	42.4	43.1
75°	42.7	46.8	54.4	61.5	68.0	74.0	79.3	84.1	88.2	91.7	94.6
72.5°	83.4	93.0	104.1	121.2	136.9	151.2	164.1	175.6	185.6	194.0	201.0
70°	157.6	180.1	201.2	223.4	247.8	270.2	290.3	308.2	323.8	337.0	347.9
67.5°	260.8	295.3	327.7	357.7	387.3	415.1	440.2	462.5	482.0	498.6	512.2
65°	384.6	427.0	466.8	503.8	538.3	575.9	609.9	640.1	666.5	688.9	707.4
62.5°	518.0	570.8	623.9	673.4	719.1	761.6	800.7	835.5	865.8	891.7	913.0
60°	673.4	735.6	795.9	852.3	904.4	952.1	992.1	1027.8	1058.9	1085.5	1107.4
57.5°	834.1	904.4	969.1	1026.4	1079.4	1128.0	1168.7	1203.0	1232.9	1258.4	1279.5
55°	992.1	1063.0	1129.7	1186.3	1236.8	1283.1	1319.7	1331.9	1342.6	1351.6	1359.1
52.5°	1139.7	1207.5	1270.6	1321.2	1339.0	1355.4	1370.2	1387.3	1403.1	1416.5	1427.6
50°	1267.5	1324.5	1346.6	1367.3	1391.5	1415.5	1437.3	1474.6	1524.7	1567.5	1602.9
47.5°	1341.6	1366.7	1396.8	1427.0	1469.9	1545.7	1614.8	1733.6	2095.8	2406.1	2662.7
45°	1384.5	1420.8	1470.4	1565.3	1654.0	2127.2	2624.0	3070.3	3411.5	3697.1	3933.6
42.5°	1437.1	1530.6	1638.6	2157.7	2791.6	3339.6	3793.8	4202.7	4402.9	4467.6	4521.3
40°	1567.3	1810.3	2577.1	3275.2	3851.1	4365.7	4468.0	4560.2	4632.5	4674.8	4709.9
37.5°	1977.2	2832.4	3568.9	4224.9	4461.0	4580.8	4662.1	4722.0	4774.2	4788.5	4800.5
35°	2918.0	3717.4	4379.8	4525.7	4645.5	4722.9	4780.1	4800.4	4818.4	4766.8	4705.5
32.5°	3717.4	4395.7	4558.5	4675.9	4764.5	4796.7	4820.7	4726.3	4634.3	4518.2	4389.1
30°	4379.8	4558.5	4686.1	4777.4	4806.9	4763.6	4642.0	4472.7	4280.5	4142.4	4106.5
27.5°	4525.7	4675.9	4777.4	4810.3	4730.3	4587.4	4335.6	4140.2	4087.0	4040.4	4136.0
25°	4645.5	4764.5	4806.9	4730.3	4553.8	4265.7	4112.4	4048.7	4160.5	4285.0	4517.9
22.5°	4722.9	4796.7	4763.6	4587.4	4265.7	4103.1	4067.2	4235.4	4512.7	4876.8	6141.2
20°	4780.1	4820.7	4642.0	4335.6	4112.4	4067.2	4260.8	4655.3	5467.1	8556.6	12212.4
17.5°	4800.4	4726.3	4472.7	4140.2	4048.7	4235.4	4655.3	6057.6	9808.8	17941.2	26520.6
15°	4818.4	4634.3	4280.5	4087.0	4160.5	4512.7	5467.1	9808.8	19906.2	32467.9	46572.8
12.5°	4766.8	4518.2	4142.4	4040.4	4285.0	4876.8	8556.6	17941.2	32467.9	49998.5	79692.5
10°	4705.5	4389.1	4106.5	4136.0	4517.9	6141.2	12212.4	26520.6	46572.8	79692.5	120007.3
7.5°	4656.9	4286.8	4077.9	4212.9	4744.8	8088.6	18499.7	36693.2	65303.6	108915.3	168508.7
5°	4621.8	4212.6	4057.1	4269.0	4911.1	9524.4	23170.8	44510.0	82754.1	138412.2	217901.2
2.5°	4600.5	4167.6	4044.4	4303.2	5012.6	10405.2	26053.2	49373.0	93741.4	159679.3	254853.2
0°	4593.4	4152.5	4040.2	4314.7	5046.8	10702.2	27028.1	51025.3	97500.1	167749.0	268052.5
-2.5°	4600.5	4167.6	4044.4	4303.2	5012.6	10405.2	26053.2	49373.0	93741.4	159679.3	254853.2
-5°	4621.8	4212.6	4057.1	4269.0	4911.1	9524.4	23170.8	44510.0	82754.1	138412.2	217901.2
-7.5°	4656.9	4286.8	4077.9	4212.9	4744.8	8088.6	18499.7	36693.2	65303.6	108915.3	168508.7
-10°	4705.5	4389.1	4106.5	4136.0	4517.9	6141.2	12212.4	26520.6	46572.8	79692.5	120007.3
-12.5°	4766.8	4518.2	4142.4	4040.4	4285.0	4876.8	8556.6	17941.2	32467.9	49998.5	79692.5
-15°	4818.4	4634.3	4280.5	4087.0	4160.5	4512.7	5467.1	9808.8	19906.2	32467.9	46572.8
-17.5°	4800.4	4726.3	4472.7	4140.2	4048.7	4235.4	4655.3	6057.6	9808.8	17941.2	26520.6
-20°	4780.1	4820.7	4642.0	4335.6	4112.4	4067.2	4260.8	4655.3	5467.1	8556.6	12212.4



REPORT NUMBER: P1305383 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-1S-HEG-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4722.9	4796.7	4763.6	4587.4	4265.7	4103.1	4067.2	4235.4	4512.7	4876.8	6141.2
-25°	4645.5	4764.5	4806.9	4730.3	4553.8	4265.7	4112.4	4048.7	4160.5	4285.0	4517.9
-27.5°	4525.7	4675.9	4777.4	4810.3	4730.3	4587.4	4335.6	4140.2	4087.0	4040.4	4136.0
-30°	4379.8	4558.5	4686.1	4777.4	4806.9	4763.6	4642.0	4472.7	4280.5	4142.4	4106.5
-32.5°	3717.4	4395.7	4558.5	4675.9	4764.5	4796.7	4820.7	4726.3	4634.3	4518.2	4389.1
-35°	2918.0	3717.4	4379.8	4525.7	4645.5	4722.9	4780.1	4800.4	4818.4	4766.8	4705.5
-37.5°	1977.2	2832.4	3568.9	4224.9	4461.0	4580.8	4662.1	4722.0	4774.2	4788.5	4800.5
-40°	1567.3	1810.3	2577.1	3275.2	3851.1	4365.7	4468.0	4560.2	4632.5	4674.8	4709.9
-42.5°	1437.1	1530.6	1638.6	2157.7	2791.6	3339.6	3793.8	4202.7	4402.9	4467.6	4521.3
-45°	1384.5	1420.8	1470.4	1565.3	1654.0	2127.2	2624.0	3070.3	3411.5	3697.1	3933.6
-47.5°	1341.6	1366.7	1396.8	1427.0	1469.9	1545.7	1614.8	1733.6	2095.8	2406.1	2662.7
-50°	1267.5	1324.5	1346.6	1367.3	1391.5	1415.5	1437.3	1474.6	1524.7	1567.5	1602.9
-52.5°	1139.7	1207.5	1270.6	1321.2	1339.0	1355.4	1370.2	1387.3	1403.1	1416.5	1427.6
-55°	992.1	1063.0	1129.7	1186.3	1236.8	1283.1	1319.7	1331.9	1342.6	1351.6	1359.1
-57.5°	834.1	904.4	969.1	1026.4	1079.4	1128.0	1168.7	1203.0	1232.9	1258.4	1279.5
-60°	673.4	735.6	795.9	852.3	904.4	952.1	992.1	1027.8	1058.9	1085.5	1107.4
-62.5°	518.0	570.8	623.9	673.4	719.1	761.6	800.7	835.5	865.8	891.7	913.0
-65°	384.6	427.0	466.8	503.8	538.3	575.9	609.9	640.1	666.5	688.9	707.4
-67.5°	260.8	295.3	327.7	357.7	387.3	415.1	440.2	462.5	482.0	498.6	512.2
-70°	157.6	180.1	201.2	223.4	247.8	270.2	290.3	308.2	323.8	337.0	347.9
-72.5°	83.4	93.0	104.1	121.2	136.9	151.2	164.1	175.6	185.6	194.0	201.0
-75°	42.7	46.8	54.4	61.5	68.0	74.0	79.3	84.1	88.2	91.7	94.6
-77.5°	29.1	31.2	33.1	34.8	36.5	38.0	39.3	40.5	41.5	42.4	43.1
-80°	20.6	21.6	22.5	23.3	24.0	24.7	25.3	25.9	26.4	26.8	27.1
-82.5°	13.5	14.1	14.6	15.2	15.7	16.1	16.5	16.8	17.1	17.4	17.6
-85°	8.2	8.4	8.6	8.7	8.9	9.1	9.2	9.3	9.4	9.5	9.6
-87.5°	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.4
-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: P1305383 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-1S-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°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.3	5.2
85°	9.6	9.7	9.7	9.7	9.7	9.7	9.6	9.6	9.5	9.4	9.3
82.5°	17.8	17.9	18.0	18.0	18.0	17.9	17.8	17.6	17.4	17.1	16.8
80°	27.4	27.6	27.7	27.7	27.7	27.6	27.4	27.1	26.8	26.4	25.9
77.5°	43.7	44.1	44.3	44.4	44.3	44.1	43.7	43.1	42.4	41.5	40.5
75°	96.9	98.5	99.5	99.8	99.5	98.5	96.9	94.6	91.7	88.2	84.1
72.5°	206.5	210.4	212.7	213.5	212.7	210.4	206.5	201.0	194.0	185.6	175.6
70°	356.4	362.5	366.2	367.4	366.2	362.5	356.4	347.9	337.0	323.8	308.2
67.5°	522.9	530.5	535.1	536.6	535.1	530.5	522.9	512.2	498.6	482.0	462.5
65°	721.8	732.1	738.3	740.4	738.3	732.1	721.8	707.4	688.9	666.5	640.1
62.5°	929.6	941.5	948.7	951.1	948.7	941.5	929.6	913.0	891.7	865.8	835.5
60°	1124.5	1136.8	1144.1	1146.6	1144.1	1136.8	1124.5	1107.4	1085.5	1058.9	1027.8
57.5°	1295.9	1307.7	1314.8	1317.2	1314.8	1307.7	1295.9	1279.5	1258.4	1232.9	1203.0
55°	1365.0	1369.2	1371.8	1372.6	1371.8	1369.2	1365.0	1359.1	1351.6	1342.6	1331.9
52.5°	1436.3	1442.5	1446.2	1447.5	1446.2	1442.5	1436.3	1427.6	1416.5	1403.1	1387.3
50°	1630.7	1650.6	1662.6	1666.6	1662.6	1650.6	1630.7	1602.9	1567.5	1524.7	1474.6
47.5°	2864.0	3008.7	3096.0	3125.1	3096.0	3008.7	2864.0	2662.7	2406.1	2095.8	1733.6
45°	4119.3	4253.0	4333.6	4360.5	4333.6	4253.0	4119.3	3933.6	3697.1	3411.5	3070.3
42.5°	4563.5	4593.9	4612.3	4618.4	4612.3	4593.9	4563.5	4521.3	4467.6	4402.9	4202.7
40°	4737.6	4757.6	4769.7	4773.7	4769.7	4757.6	4737.6	4709.9	4674.8	4632.5	4560.2
37.5°	4809.9	4816.7	4820.8	4822.2	4820.8	4816.7	4809.9	4800.5	4788.5	4774.2	4722.0
35°	4656.9	4621.8	4600.5	4593.4	4600.5	4621.8	4656.9	4705.5	4766.8	4818.4	4800.4
32.5°	4286.8	4212.6	4167.6	4152.5	4167.6	4212.6	4286.8	4389.1	4518.2	4634.3	4726.3
30°	4077.9	4057.1	4044.4	4040.2	4044.4	4057.1	4077.9	4106.5	4142.4	4280.5	4472.7
27.5°	4212.9	4269.0	4303.2	4314.7	4303.2	4269.0	4212.9	4136.0	4040.4	4087.0	4140.2
25°	4744.8	4911.1	5012.6	5046.8	5012.6	4911.1	4744.8	4517.9	4285.0	4160.5	4048.7
22.5°	8088.6	9524.4	10405.2	10702.2	10405.2	9524.4	8088.6	6141.2	4876.8	4512.7	4235.4
20°	18499.7	23170.8	26053.2	27028.1	26053.2	23170.8	18499.7	12212.4	8556.6	5467.1	4655.3
17.5°	36693.2	44510.0	49373.0	51025.3	49373.0	44510.0	36693.2	26520.6	17941.2	9808.8	6057.6
15°	65303.6	82754.1	93741.4	97500.1	93741.4	82754.1	65303.6	46572.8	32467.9	19906.2	9808.8
12.5°	108915.3	138412.2	159679.3	167749.0	159679.3	138412.2	108915.3	79692.5	49998.5	32467.9	17941.2
10°	168508.7	217901.2	254853.2	268052.5	254853.2	217901.2	168508.7	120007.3	79692.5	46572.8	26520.6
7.5°	242431.4	308816.9	355463.0	371344.7	355463.0	308816.9	242431.4	168508.7	108915.3	65303.6	36693.2
5°	308816.9	388407.0	441641.9	461334.9	441641.9	388407.0	308816.9	217901.2	138412.2	82754.1	44510.0
2.5°	355463.0	441641.9	504809.2	534760.9	504809.2	441641.9	355463.0	254853.2	159679.3	93741.4	49373.0
0°	371344.7	461334.9	534760.9	578984.7	534760.9	461334.9	371344.7	268052.5	167749.0	97500.1	51025.3
-2.5°	355463.0	441641.9	504809.2	534760.9	504809.2	441641.9	355463.0	254853.2	159679.3	93741.4	49373.0
-5°	308816.9	388407.0	441641.9	461334.9	441641.9	388407.0	308816.9	217901.2	138412.2	82754.1	44510.0
-7.5°	242431.4	308816.9	355463.0	371344.7	355463.0	308816.9	242431.4	168508.7	108915.3	65303.6	36693.2
-10°	168508.7	217901.2	254853.2	268052.5	254853.2	217901.2	168508.7	120007.3	79692.5	46572.8	26520.6
-12.5°	108915.3	138412.2	159679.3	167749.0	159679.3	138412.2	108915.3	79692.5	49998.5	32467.9	17941.2
-15°	65303.6	82754.1	93741.4	97500.1	93741.4	82754.1	65303.6	46572.8	32467.9	19906.2	9808.8
-17.5°	36693.2	44510.0	49373.0	51025.3	49373.0	44510.0	36693.2	26520.6	17941.2	9808.8	6057.6
-20°	18499.7	23170.8	26053.2	27028.1	26053.2	23170.8	18499.7	12212.4	8556.6	5467.1	4655.3



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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°	8088.6	9524.4	10405.2	10702.2	10405.2	9524.4	8088.6	6141.2	4876.8	4512.7	4235.4
-25°	4744.8	4911.1	5012.6	5046.8	5012.6	4911.1	4744.8	4517.9	4285.0	4160.5	4048.7
-27.5°	4212.9	4269.0	4303.2	4314.7	4303.2	4269.0	4212.9	4136.0	4040.4	4087.0	4140.2
-30°	4077.9	4057.1	4044.4	4040.2	4044.4	4057.1	4077.9	4106.5	4142.4	4280.5	4472.7
-32.5°	4286.8	4212.6	4167.6	4152.5	4167.6	4212.6	4286.8	4389.1	4518.2	4634.3	4726.3
-35°	4656.9	4621.8	4600.5	4593.4	4600.5	4621.8	4656.9	4705.5	4766.8	4818.4	4800.4
-37.5°	4809.9	4816.7	4820.8	4822.2	4820.8	4816.7	4809.9	4800.5	4788.5	4774.2	4722.0
-40°	4737.6	4757.6	4769.7	4773.7	4769.7	4757.6	4737.6	4709.9	4674.8	4632.5	4560.2
-42.5°	4563.5	4593.9	4612.3	4618.4	4612.3	4593.9	4563.5	4521.3	4467.6	4402.9	4202.7
-45°	4119.3	4253.0	4333.6	4360.5	4333.6	4253.0	4119.3	3933.6	3697.1	3411.5	3070.3
-47.5°	2864.0	3008.7	3096.0	3125.1	3096.0	3008.7	2864.0	2662.7	2406.1	2095.8	1733.6
-50°	1630.7	1650.6	1662.6	1666.6	1662.6	1650.6	1630.7	1602.9	1567.5	1524.7	1474.6
-52.5°	1436.3	1442.5	1446.2	1447.5	1446.2	1442.5	1436.3	1427.6	1416.5	1403.1	1387.3
-55°	1365.0	1369.2	1371.8	1372.6	1371.8	1369.2	1365.0	1359.1	1351.6	1342.6	1331.9
-57.5°	1295.9	1307.7	1314.8	1317.2	1314.8	1307.7	1295.9	1279.5	1258.4	1232.9	1203.0
-60°	1124.5	1136.8	1144.1	1146.6	1144.1	1136.8	1124.5	1107.4	1085.5	1058.9	1027.8
-62.5°	929.6	941.5	948.7	951.1	948.7	941.5	929.6	913.0	891.7	865.8	835.5
-65°	721.8	732.1	738.3	740.4	738.3	732.1	721.8	707.4	688.9	666.5	640.1
-67.5°	522.9	530.5	535.1	536.6	535.1	530.5	522.9	512.2	498.6	482.0	462.5
-70°	356.4	362.5	366.2	367.4	366.2	362.5	356.4	347.9	337.0	323.8	308.2
-72.5°	206.5	210.4	212.7	213.5	212.7	210.4	206.5	201.0	194.0	185.6	175.6
-75°	96.9	98.5	99.5	99.8	99.5	98.5	96.9	94.6	91.7	88.2	84.1
-77.5°	43.7	44.1	44.3	44.4	44.3	44.1	43.7	43.1	42.4	41.5	40.5
-80°	27.4	27.6	27.7	27.7	27.7	27.6	27.4	27.1	26.8	26.4	25.9
-82.5°	17.8	17.9	18.0	18.0	18.0	17.9	17.8	17.6	17.4	17.1	16.8
-85°	9.6	9.7	9.7	9.7	9.7	9.7	9.6	9.6	9.5	9.4	9.3
-87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.3	5.2
-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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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°	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.4	4.2	4.1	3.9
85°	9.2	9.1	8.9	8.7	8.6	8.4	8.2	8.0	7.7	7.5	7.2
82.5°	16.5	16.1	15.7	15.2	14.6	14.1	13.5	12.8	12.2	11.4	10.7
80°	25.3	24.7	24.0	23.3	22.5	21.6	20.6	19.6	18.6	17.5	16.5
77.5°	39.3	38.0	36.5	34.8	33.1	31.2	29.1	27.3	25.9	24.5	23.1
75°	79.3	74.0	68.0	61.5	54.4	46.8	42.7	40.1	37.3	34.4	31.3
72.5°	164.1	151.2	136.9	121.2	104.1	93.0	83.4	73.3	62.5	51.2	42.9
70°	290.3	270.2	247.8	223.4	201.2	180.1	157.6	133.6	108.4	91.1	77.5
67.5°	440.2	415.1	387.3	357.7	327.7	295.3	260.8	224.2	192.9	162.9	131.6
65°	609.9	575.9	538.3	503.8	466.8	427.0	384.6	342.2	299.0	253.8	208.4
62.5°	800.7	761.6	719.1	673.4	623.9	570.8	518.0	468.2	415.8	361.5	309.3
60°	992.1	952.1	904.4	852.3	795.9	735.6	673.4	607.6	538.3	477.8	415.1
57.5°	1168.7	1128.0	1079.4	1026.4	969.1	904.4	834.1	759.9	683.8	604.8	525.0
55°	1319.7	1283.1	1236.8	1186.3	1129.7	1063.0	992.1	914.7	830.1	741.8	653.0
52.5°	1370.2	1355.4	1339.0	1321.2	1270.6	1207.5	1139.7	1058.9	974.3	881.0	782.3
50°	1437.3	1415.5	1391.5	1367.3	1346.6	1324.5	1267.5	1191.7	1107.4	1012.8	911.8
47.5°	1614.8	1545.7	1469.9	1427.0	1396.8	1366.7	1341.6	1311.1	1226.2	1136.8	1032.1
45°	2624.0	2127.2	1654.0	1565.3	1470.4	1420.8	1384.5	1353.2	1323.8	1243.6	1146.6
42.5°	3793.8	3339.6	2791.6	2157.7	1638.6	1530.6	1437.1	1396.5	1359.0	1326.7	1243.6
40°	4468.0	4365.7	3851.1	3275.2	2577.1	1810.3	1567.3	1445.3	1400.5	1359.0	1323.8
37.5°	4662.1	4580.8	4461.0	4224.9	3568.9	2832.4	1977.2	1579.5	1445.3	1396.5	1353.2
35°	4780.1	4722.9	4645.5	4525.7	4379.8	3717.4	2918.0	1977.2	1567.3	1437.1	1384.5
32.5°	4820.7	4796.7	4764.5	4675.9	4558.5	4395.7	3717.4	2832.4	1810.3	1530.6	1420.8
30°	4642.0	4763.6	4806.9	4777.4	4686.1	4558.5	4379.8	3568.9	2577.1	1638.6	1470.4
27.5°	4335.6	4587.4	4730.3	4810.3	4777.4	4675.9	4525.7	4224.9	3275.2	2157.7	1565.3
25°	4112.4	4265.7	4553.8	4730.3	4806.9	4764.5	4645.5	4461.0	3851.1	2791.6	1654.0
22.5°	4067.2	4103.1	4265.7	4587.4	4763.6	4796.7	4722.9	4580.8	4365.7	3339.6	2127.2
20°	4260.8	4067.2	4112.4	4335.6	4642.0	4820.7	4780.1	4662.1	4468.0	3793.8	2624.0
17.5°	4655.3	4235.4	4048.7	4140.2	4472.7	4726.3	4800.4	4722.0	4560.2	4202.7	3070.3
15°	5467.1	4512.7	4160.5	4087.0	4280.5	4634.3	4818.4	4774.2	4632.5	4402.9	3411.5
12.5°	8556.6	4876.8	4285.0	4040.4	4142.4	4518.2	4766.8	4788.5	4674.8	4467.6	3697.1
10°	12212.4	6141.2	4517.9	4136.0	4106.5	4389.1	4705.5	4800.5	4709.9	4521.3	3933.6
7.5°	18499.7	8088.6	4744.8	4212.9	4077.9	4286.8	4656.9	4809.9	4737.6	4563.5	4119.3
5°	23170.8	9524.4	4911.1	4269.0	4057.1	4212.6	4621.8	4816.7	4757.6	4593.9	4253.0
2.5°	26053.2	10405.2	5012.6	4303.2	4044.4	4167.6	4600.5	4820.8	4769.7	4612.3	4333.6
0°	27028.1	10702.2	5046.8	4314.7	4040.2	4152.5	4593.4	4822.2	4773.7	4618.4	4360.5
-2.5°	26053.2	10405.2	5012.6	4303.2	4044.4	4167.6	4600.5	4820.8	4769.7	4612.3	4333.6
-5°	23170.8	9524.4	4911.1	4269.0	4057.1	4212.6	4621.8	4816.7	4757.6	4593.9	4253.0
-7.5°	18499.7	8088.6	4744.8	4212.9	4077.9	4286.8	4656.9	4809.9	4737.6	4563.5	4119.3
-10°	12212.4	6141.2	4517.9	4136.0	4106.5	4389.1	4705.5	4800.5	4709.9	4521.3	3933.6
-12.5°	8556.6	4876.8	4285.0	4040.4	4142.4	4518.2	4766.8	4788.5	4674.8	4467.6	3697.1
-15°	5467.1	4512.7	4160.5	4087.0	4280.5	4634.3	4818.4	4774.2	4632.5	4402.9	3411.5
-17.5°	4655.3	4235.4	4048.7	4140.2	4472.7	4726.3	4800.4	4722.0	4560.2	4202.7	3070.3
-20°	4260.8	4067.2	4112.4	4335.6	4642.0	4820.7	4780.1	4662.1	4468.0	3793.8	2624.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4067.2	4103.1	4265.7	4587.4	4763.6	4796.7	4722.9	4580.8	4365.7	3339.6	2127.2
-25°	4112.4	4265.7	4553.8	4730.3	4806.9	4764.5	4645.5	4461.0	3851.1	2791.6	1654.0
-27.5°	4335.6	4587.4	4730.3	4810.3	4777.4	4675.9	4525.7	4224.9	3275.2	2157.7	1565.3
-30°	4642.0	4763.6	4806.9	4777.4	4686.1	4558.5	4379.8	3568.9	2577.1	1638.6	1470.4
-32.5°	4820.7	4796.7	4764.5	4675.9	4558.5	4395.7	3717.4	2832.4	1810.3	1530.6	1420.8
-35°	4780.1	4722.9	4645.5	4525.7	4379.8	3717.4	2918.0	1977.2	1567.3	1437.1	1384.5
-37.5°	4662.1	4580.8	4461.0	4224.9	3568.9	2832.4	1977.2	1579.5	1445.3	1396.5	1353.2
-40°	4468.0	4365.7	3851.1	3275.2	2577.1	1810.3	1567.3	1445.3	1400.5	1359.0	1323.8
-42.5°	3793.8	3339.6	2791.6	2157.7	1638.6	1530.6	1437.1	1396.5	1359.0	1326.7	1243.6
-45°	2624.0	2127.2	1654.0	1565.3	1470.4	1420.8	1384.5	1353.2	1323.8	1243.6	1146.6
-47.5°	1614.8	1545.7	1469.9	1427.0	1396.8	1366.7	1341.6	1311.1	1226.2	1136.8	1032.1
-50°	1437.3	1415.5	1391.5	1367.3	1346.6	1324.5	1267.5	1191.7	1107.4	1012.8	911.8
-52.5°	1370.2	1355.4	1339.0	1321.2	1270.6	1207.5	1139.7	1058.9	974.3	881.0	782.3
-55°	1319.7	1283.1	1236.8	1186.3	1129.7	1063.0	992.1	914.7	830.1	741.8	653.0
-57.5°	1168.7	1128.0	1079.4	1026.4	969.1	904.4	834.1	759.9	683.8	604.8	525.0
-60°	992.1	952.1	904.4	852.3	795.9	735.6	673.4	607.6	538.3	477.8	415.1
-62.5°	800.7	761.6	719.1	673.4	623.9	570.8	518.0	468.2	415.8	361.5	309.3
-65°	609.9	575.9	538.3	503.8	466.8	427.0	384.6	342.2	299.0	253.8	208.4
-67.5°	440.2	415.1	387.3	357.7	327.7	295.3	260.8	224.2	192.9	162.9	131.6
-70°	290.3	270.2	247.8	223.4	201.2	180.1	157.6	133.6	108.4	91.1	77.5
-72.5°	164.1	151.2	136.9	121.2	104.1	93.0	83.4	73.3	62.5	51.2	42.9
-75°	79.3	74.0	68.0	61.5	54.4	46.8	42.7	40.1	37.3	34.4	31.3
-77.5°	39.3	38.0	36.5	34.8	33.1	31.2	29.1	27.3	25.9	24.5	23.1
-80°	25.3	24.7	24.0	23.3	22.5	21.6	20.6	19.6	18.6	17.5	16.5
-82.5°	16.5	16.1	15.7	15.2	14.6	14.1	13.5	12.8	12.2	11.4	10.7
-85°	9.2	9.1	8.9	8.7	8.6	8.4	8.2	8.0	7.7	7.5	7.2
-87.5°	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.4	4.2	4.1	3.9
-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: P1305383 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-1S-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°	3.7	3.5	3.3	3.2	3.0	2.7	2.5	2.3	2.1	1.9	1.7
85°	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.6	4.2	3.8	3.3
82.5°	9.9	9.4	9.0	8.5	8.1	7.6	7.1	6.6	6.1	5.6	4.9
80°	15.5	14.4	13.2	12.1	10.9	9.7	9.0	8.4	7.7	7.0	6.3
77.5°	21.5	19.9	18.3	16.8	15.3	13.7	12.1	10.5	9.3	8.4	7.6
75°	28.2	26.1	24.1	22.0	19.9	17.8	15.9	13.9	12.0	10.0	8.8
72.5°	39.2	35.3	31.4	27.4	25.0	22.5	19.9	17.3	15.0	12.7	10.3
70°	63.5	48.8	41.2	36.5	31.6	27.1	24.2	21.1	18.1	15.4	12.7
67.5°	99.4	83.0	65.9	48.4	40.2	34.6	28.9	25.0	21.6	18.1	15.0
65°	172.1	134.5	97.8	78.3	58.2	42.4	36.1	29.6	25.0	21.1	17.3
62.5°	255.2	202.9	160.1	116.1	85.7	63.2	43.1	36.1	28.9	24.2	19.9
60°	351.6	290.3	227.1	175.6	126.4	88.2	63.2	42.4	34.6	27.1	22.5
57.5°	454.3	381.2	311.5	241.2	180.7	126.4	85.7	58.2	40.2	31.6	25.0
55°	561.0	478.0	397.0	318.6	241.2	175.6	116.1	78.3	48.4	36.5	27.4
52.5°	682.1	580.3	486.0	397.0	311.5	227.1	160.1	97.8	65.9	41.2	31.4
50°	802.6	691.9	580.3	478.0	381.2	290.3	202.9	134.5	83.0	48.8	35.3
47.5°	922.1	802.6	682.1	561.0	454.3	351.6	255.2	172.1	99.4	63.5	39.2
45°	1032.1	911.8	782.3	653.0	525.0	415.1	309.3	208.4	131.6	77.5	42.9
42.5°	1136.8	1012.8	881.0	741.8	604.8	477.8	361.5	253.8	162.9	91.1	51.2
40°	1226.2	1107.4	974.3	830.1	683.8	538.3	415.8	299.0	192.9	108.4	62.5
37.5°	1311.1	1191.7	1058.9	914.7	759.9	607.6	468.2	342.2	224.2	133.6	73.3
35°	1341.6	1267.5	1139.7	992.1	834.1	673.4	518.0	384.6	260.8	157.6	83.4
32.5°	1366.7	1324.5	1207.5	1063.0	904.4	735.6	570.8	427.0	295.3	180.1	93.0
30°	1396.8	1346.6	1270.6	1129.7	969.1	795.9	623.9	466.8	327.7	201.2	104.1
27.5°	1427.0	1367.3	1321.2	1186.3	1026.4	852.3	673.4	503.8	357.7	223.4	121.2
25°	1469.9	1391.5	1339.0	1236.8	1079.4	904.4	719.1	538.3	387.3	247.8	136.9
22.5°	1545.7	1415.5	1355.4	1283.1	1128.0	952.1	761.6	575.9	415.1	270.2	151.2
20°	1614.8	1437.3	1370.2	1319.7	1168.7	992.1	800.7	609.9	440.2	290.3	164.1
17.5°	1733.6	1474.6	1387.3	1331.9	1203.0	1027.8	835.5	640.1	462.5	308.2	175.6
15°	2095.8	1524.7	1403.1	1342.6	1232.9	1058.9	865.8	666.5	482.0	323.8	185.6
12.5°	2406.1	1567.5	1416.5	1351.6	1258.4	1085.5	891.7	688.9	498.6	337.0	194.0
10°	2662.7	1602.9	1427.6	1359.1	1279.5	1107.4	913.0	707.4	512.2	347.9	201.0
7.5°	2864.0	1630.7	1436.3	1365.0	1295.9	1124.5	929.6	721.8	522.9	356.4	206.5
5°	3008.7	1650.6	1442.5	1369.2	1307.7	1136.8	941.5	732.1	530.5	362.5	210.4
2.5°	3096.0	1662.6	1446.2	1371.8	1314.8	1144.1	948.7	738.3	535.1	366.2	212.7
0°	3125.1	1666.6	1447.5	1372.6	1317.2	1146.6	951.1	740.4	536.6	367.4	213.5
-2.5°	3096.0	1662.6	1446.2	1371.8	1314.8	1144.1	948.7	738.3	535.1	366.2	212.7
-5°	3008.7	1650.6	1442.5	1369.2	1307.7	1136.8	941.5	732.1	530.5	362.5	210.4
-7.5°	2864.0	1630.7	1436.3	1365.0	1295.9	1124.5	929.6	721.8	522.9	356.4	206.5
-10°	2662.7	1602.9	1427.6	1359.1	1279.5	1107.4	913.0	707.4	512.2	347.9	201.0
-12.5°	2406.1	1567.5	1416.5	1351.6	1258.4	1085.5	891.7	688.9	498.6	337.0	194.0
-15°	2095.8	1524.7	1403.1	1342.6	1232.9	1058.9	865.8	666.5	482.0	323.8	185.6
-17.5°	1733.6	1474.6	1387.3	1331.9	1203.0	1027.8	835.5	640.1	462.5	308.2	175.6
-20°	1614.8	1437.3	1370.2	1319.7	1168.7	992.1	800.7	609.9	440.2	290.3	164.1



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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°	1545.7	1415.5	1355.4	1283.1	1128.0	952.1	761.6	575.9	415.1	270.2	151.2
-25°	1469.9	1391.5	1339.0	1236.8	1079.4	904.4	719.1	538.3	387.3	247.8	136.9
-27.5°	1427.0	1367.3	1321.2	1186.3	1026.4	852.3	673.4	503.8	357.7	223.4	121.2
-30°	1396.8	1346.6	1270.6	1129.7	969.1	795.9	623.9	466.8	327.7	201.2	104.1
-32.5°	1366.7	1324.5	1207.5	1063.0	904.4	735.6	570.8	427.0	295.3	180.1	93.0
-35°	1341.6	1267.5	1139.7	992.1	834.1	673.4	518.0	384.6	260.8	157.6	83.4
-37.5°	1311.1	1191.7	1058.9	914.7	759.9	607.6	468.2	342.2	224.2	133.6	73.3
-40°	1226.2	1107.4	974.3	830.1	683.8	538.3	415.8	299.0	192.9	108.4	62.5
-42.5°	1136.8	1012.8	881.0	741.8	604.8	477.8	361.5	253.8	162.9	91.1	51.2
-45°	1032.1	911.8	782.3	653.0	525.0	415.1	309.3	208.4	131.6	77.5	42.9
-47.5°	922.1	802.6	682.1	561.0	454.3	351.6	255.2	172.1	99.4	63.5	39.2
-50°	802.6	691.9	580.3	478.0	381.2	290.3	202.9	134.5	83.0	48.8	35.3
-52.5°	682.1	580.3	486.0	397.0	311.5	227.1	160.1	97.8	65.9	41.2	31.4
-55°	561.0	478.0	397.0	318.6	241.2	175.6	116.1	78.3	48.4	36.5	27.4
-57.5°	454.3	381.2	311.5	241.2	180.7	126.4	85.7	58.2	40.2	31.6	25.0
-60°	351.6	290.3	227.1	175.6	126.4	88.2	63.2	42.4	34.6	27.1	22.5
-62.5°	255.2	202.9	160.1	116.1	85.7	63.2	43.1	36.1	28.9	24.2	19.9
-65°	172.1	134.5	97.8	78.3	58.2	42.4	36.1	29.6	25.0	21.1	17.3
-67.5°	99.4	83.0	65.9	48.4	40.2	34.6	28.9	25.0	21.6	18.1	15.0
-70°	63.5	48.8	41.2	36.5	31.6	27.1	24.2	21.1	18.1	15.4	12.7
-72.5°	39.2	35.3	31.4	27.4	25.0	22.5	19.9	17.3	15.0	12.7	10.3
-75°	28.2	26.1	24.1	22.0	19.9	17.8	15.9	13.9	12.0	10.0	8.8
-77.5°	21.5	19.9	18.3	16.8	15.3	13.7	12.1	10.5	9.3	8.4	7.6
-80°	15.5	14.4	13.2	12.1	10.9	9.7	9.0	8.4	7.7	7.0	6.3
-82.5°	9.9	9.4	9.0	8.5	8.1	7.6	7.1	6.6	6.1	5.6	4.9
-85°	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.6	4.2	3.8	3.3
-87.5°	3.7	3.5	3.3	3.2	3.0	2.7	2.5	2.3	2.1	1.9	1.7
-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):

	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°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.8	2.4	1.9	1.4	1.0	0.5	0.0
82.5°	4.3	3.6	2.9	2.1	1.4	0.7	0.0
80°	5.6	4.7	3.8	2.9	1.9	1.0	0.0
77.5°	6.7	5.8	4.7	3.6	2.4	1.2	0.0
75°	7.8	6.7	5.6	4.3	2.8	1.4	0.0
72.5°	8.8	7.6	6.3	4.9	3.3	1.7	0.0
70°	10.0	8.4	7.0	5.6	3.8	1.9	0.0
67.5°	12.0	9.3	7.7	6.1	4.2	2.1	0.0
65°	13.9	10.5	8.4	6.6	4.6	2.3	0.0
62.5°	15.9	12.1	9.0	7.1	5.1	2.5	0.0
60°	17.8	13.7	9.7	7.6	5.5	2.7	0.0
57.5°	19.9	15.3	10.9	8.1	5.8	3.0	0.0
55°	22.0	16.8	12.1	8.5	6.1	3.2	0.0
52.5°	24.1	18.3	13.2	9.0	6.4	3.3	0.0
50°	26.1	19.9	14.4	9.4	6.7	3.5	0.0
47.5°	28.2	21.5	15.5	9.9	7.0	3.7	0.0
45°	31.3	23.1	16.5	10.7	7.2	3.9	0.0
42.5°	34.4	24.5	17.5	11.4	7.5	4.1	0.0
40°	37.3	25.9	18.6	12.2	7.7	4.2	0.0
37.5°	40.1	27.3	19.6	12.8	8.0	4.4	0.0
35°	42.7	29.1	20.6	13.5	8.2	4.5	0.0
32.5°	46.8	31.2	21.6	14.1	8.4	4.6	0.0
30°	54.4	33.1	22.5	14.6	8.6	4.8	0.0
27.5°	61.5	34.8	23.3	15.2	8.7	4.9	0.0
25°	68.0	36.5	24.0	15.7	8.9	5.0	0.0
22.5°	74.0	38.0	24.7	16.1	9.1	5.1	0.0
20°	79.3	39.3	25.3	16.5	9.2	5.2	0.0
17.5°	84.1	40.5	25.9	16.8	9.3	5.2	0.0
15°	88.2	41.5	26.4	17.1	9.4	5.3	0.0
12.5°	91.7	42.4	26.8	17.4	9.5	5.4	0.0
10°	94.6	43.1	27.1	17.6	9.6	5.4	0.0
7.5°	96.9	43.7	27.4	17.8	9.6	5.5	0.0
5°	98.5	44.1	27.6	17.9	9.7	5.5	0.0
2.5°	99.5	44.3	27.7	18.0	9.7	5.5	0.0
0°	99.8	44.4	27.7	18.0	9.7	5.5	0.0
-2.5°	99.5	44.3	27.7	18.0	9.7	5.5	0.0
-5°	98.5	44.1	27.6	17.9	9.7	5.5	0.0
-7.5°	96.9	43.7	27.4	17.8	9.6	5.5	0.0
-10°	94.6	43.1	27.1	17.6	9.6	5.4	0.0
-12.5°	91.7	42.4	26.8	17.4	9.5	5.4	0.0
-15°	88.2	41.5	26.4	17.1	9.4	5.3	0.0
-17.5°	84.1	40.5	25.9	16.8	9.3	5.2	0.0
-20°	79.3	39.3	25.3	16.5	9.2	5.2	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	74.0	38.0	24.7	16.1	9.1	5.1	0.0
-25°	68.0	36.5	24.0	15.7	8.9	5.0	0.0
-27.5°	61.5	34.8	23.3	15.2	8.7	4.9	0.0
-30°	54.4	33.1	22.5	14.6	8.6	4.8	0.0
-32.5°	46.8	31.2	21.6	14.1	8.4	4.6	0.0
-35°	42.7	29.1	20.6	13.5	8.2	4.5	0.0
-37.5°	40.1	27.3	19.6	12.8	8.0	4.4	0.0
-40°	37.3	25.9	18.6	12.2	7.7	4.2	0.0
-42.5°	34.4	24.5	17.5	11.4	7.5	4.1	0.0
-45°	31.3	23.1	16.5	10.7	7.2	3.9	0.0
-47.5°	28.2	21.5	15.5	9.9	7.0	3.7	0.0
-50°	26.1	19.9	14.4	9.4	6.7	3.5	0.0
-52.5°	24.1	18.3	13.2	9.0	6.4	3.3	0.0
-55°	22.0	16.8	12.1	8.5	6.1	3.2	0.0
-57.5°	19.9	15.3	10.9	8.1	5.8	3.0	0.0
-60°	17.8	13.7	9.7	7.6	5.5	2.7	0.0
-62.5°	15.9	12.1	9.0	7.1	5.1	2.5	0.0
-65°	13.9	10.5	8.4	6.6	4.6	2.3	0.0
-67.5°	12.0	9.3	7.7	6.1	4.2	2.1	0.0
-70°	10.0	8.4	7.0	5.6	3.8	1.9	0.0
-72.5°	8.8	7.6	6.3	4.9	3.3	1.7	0.0
-75°	7.8	6.7	5.6	4.3	2.8	1.4	0.0
-77.5°	6.7	5.8	4.7	3.6	2.4	1.2	0.0
-80°	5.6	4.7	3.8	2.9	1.9	1.0	0.0
-82.5°	4.3	3.6	2.9	2.1	1.4	0.7	0.0
-85°	2.8	2.4	1.9	1.4	1.0	0.5	0.0
-87.5°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)