

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: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-80-5S-S**

Issue Date: 8/10/2023

Test Information

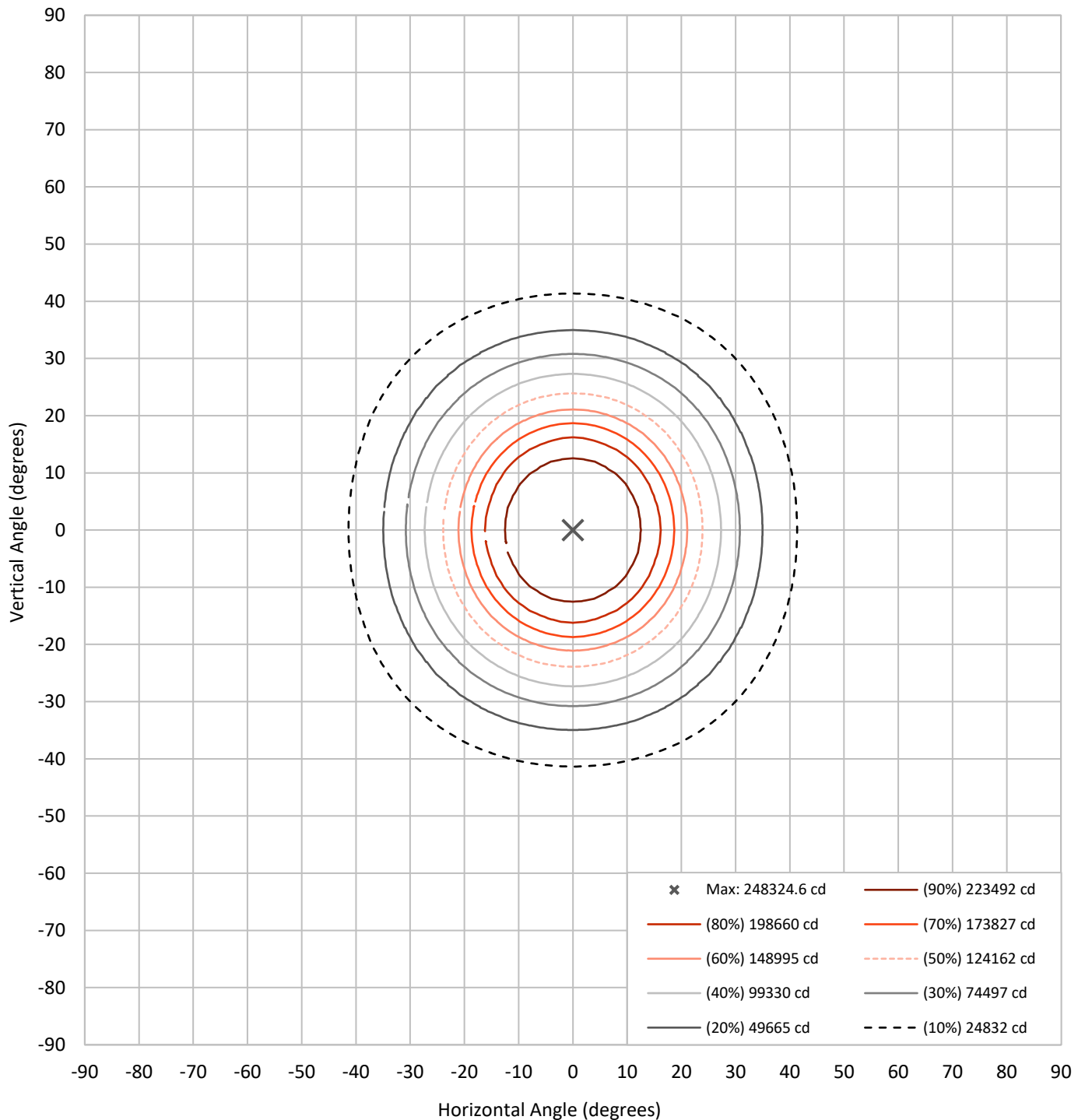
Test Method: LM-79-08
Report Number: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-57-80-5S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	181207.6 lumens	Max Intensity:	248324.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.3 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	47.8°H x 47.8°V	Field Angle (10%):	82.7°H x 82.7°V
Beam Lumens:	101002.4 lumens	Field Lumens:	166717.1 lumens
Beam Efficiency:	55.7%	Field Efficiency:	92.0%
Input Watts (W):	1214.1		
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





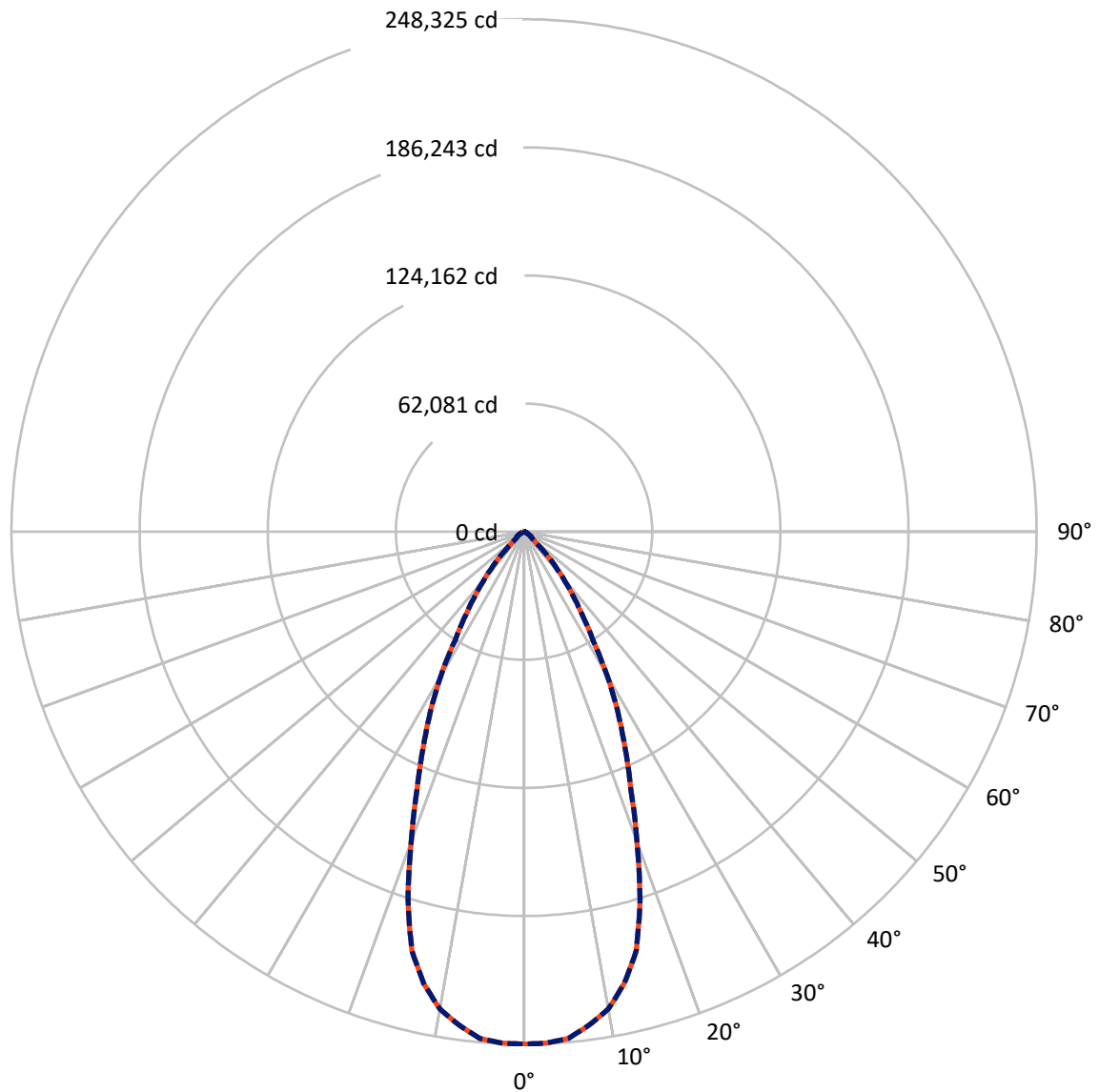
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Lumen Table

90																			
80	0.2	1.6		6.4		14.7		18.9		14.7		6.4		1.6		0.2			
70																			
60	0.8	1.1	3.7	9.8	19.4	30.5	40.6	46.4	46.4	40.6	30.5	19.4	9.8	3.7	1.1	0.8			
50		2.8	11.3	28.8	54.6	83.0	105.4	117.8	117.8	105.4	83.0	54.6	28.8	11.3	2.8				
40	2.2	6.0	23.5	57.7	101.1	172.1	314.2	431.1	431.1	314.2	172.1	101.1	57.7	23.5	6.0	2.2			
30		10.3	38.7	87.5	222.3	633.7	1133.3	1489.3	1489.3	1133.3	633.7	222.3	87.5	38.7	10.3				
20	4.2	14.7	53.2	135.7	576.0	1428.8	2568.0	3406.4	3406.4	2568.0	1428.8	576.0	135.7	53.2	14.7	4.2			
10		18.4	63.3	234.7	968.3	2416.5	4382.3	5946.9	5946.9	4382.3	2416.5	968.3	234.7	63.3	18.4				
0	5.2	20.4	68.6	313.0	1235.5	3111.5	5773.8	7247.5	7247.5	5773.8	3111.5	1235.5	313.0	68.6	20.4	5.2			
-10		20.4	68.6	313.0	1235.5	3111.5	5773.8	7247.5	7247.5	5773.8	3111.5	1235.5	313.0	68.6	20.4				
-20	4.2	18.4	63.3	234.7	968.3	2416.5	4382.3	5946.9	5946.9	4382.3	2416.5	968.3	234.7	63.3	18.4	4.2			
-30		14.7	53.2	135.7	576.0	1428.8	2568.0	3406.4	3406.4	2568.0	1428.8	576.0	135.7	53.2	14.7				
-40	2.2	10.3	38.7	87.5	222.3	633.7	1133.3	1489.3	1489.3	1133.3	633.7	222.3	87.5	38.7	10.3	2.2			
-50		6.0	23.5	57.7	101.1	172.1	314.2	431.1	431.1	314.2	172.1	101.1	57.7	23.5	6.0				
-60	0.8	2.8	11.3	28.8	54.6	83.0	105.4	117.8	117.8	105.4	83.0	54.6	28.8	11.3	2.8	0.8			
-70		1.1	3.7	9.8	19.4	30.5	40.6	46.4	46.4	40.6	30.5	19.4	9.8	3.7	1.1				
-80	0.2	1.6		6.4		14.7		18.9		14.7		6.4		1.6		0.2			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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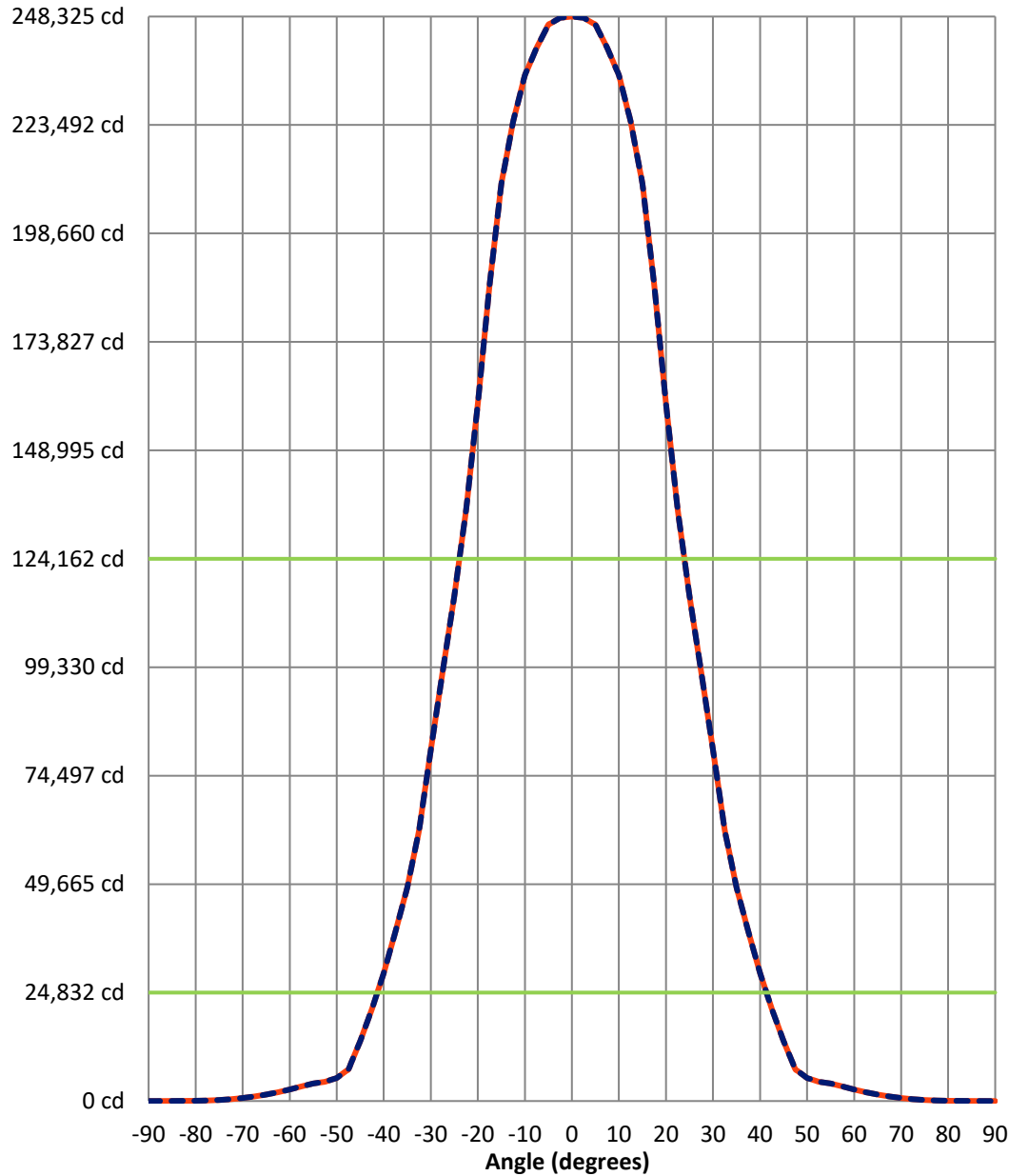
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 47.8°
 V Angle: 47.8°
 Lumens: 101002.4
 Efficiency: 55.7%

Field:
 H Angle: 82.7°
 V Angle: 82.7°
 Lumens: 166717.1
 Efficiency: 92.0%

Spill:
 Lumens: 14490.5
 Efficiency: 8.0%

— 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	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
85°	0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.5	5.0	5.6
82.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	7.0	8.8	10.6
80°	0.0	1.1	2.3	3.4	4.6	5.7	7.1	9.6	12.1	14.6	17.0
77.5°	0.0	1.4	2.9	4.3	5.7	7.7	10.9	14.1	17.2	20.3	23.7
75°	0.0	1.7	3.4	5.1	7.1	10.9	14.8	18.5	22.4	27.0	31.5
72.5°	0.0	2.0	4.0	5.9	9.6	14.1	18.5	23.2	28.6	34.0	39.2
70°	0.0	2.3	4.5	7.0	12.1	17.2	22.4	28.6	34.8	40.9	48.1
67.5°	0.0	2.5	5.0	8.8	14.6	20.3	27.0	34.0	40.9	49.1	57.1
65°	0.0	2.8	5.6	10.6	17.0	23.7	31.5	39.2	48.1	57.1	70.3
62.5°	0.0	3.0	6.1	12.4	19.4	27.4	35.9	45.1	55.1	67.6	93.3
60°	0.0	3.3	6.6	14.2	21.7	31.0	40.2	51.1	62.0	88.0	115.8
57.5°	0.0	3.5	7.7	15.9	24.5	34.5	45.2	57.0	77.4	107.9	151.8
55°	0.0	3.8	8.8	17.5	27.2	37.9	50.1	62.8	94.7	131.3	193.6
52.5°	0.0	4.0	9.9	19.1	29.9	41.3	54.9	76.5	111.5	167.8	234.2
50°	0.0	4.2	10.9	20.7	32.4	45.2	59.6	90.7	132.2	203.3	294.7
47.5°	0.0	4.5	11.9	22.2	34.9	48.9	65.1	104.4	162.7	237.6	355.7
45°	0.0	4.7	12.9	24.0	37.3	52.5	76.4	117.7	192.0	290.0	414.5
42.5°	0.0	4.9	13.8	25.7	39.6	56.0	87.3	137.3	220.2	340.8	494.7
40°	0.0	5.1	14.7	27.4	42.0	59.3	97.6	160.8	252.3	389.4	575.3
37.5°	0.0	5.2	15.5	28.9	44.5	62.4	107.5	183.1	293.3	441.9	652.2
35°	0.0	5.4	16.3	30.4	46.9	68.5	116.8	204.2	332.1	507.2	733.0
32.5°	0.0	5.6	17.0	31.8	49.1	75.7	128.0	224.2	368.6	568.7	821.2
30°	0.0	5.7	17.7	33.1	51.1	82.6	143.9	245.4	402.8	626.4	904.0
27.5°	0.0	5.9	18.4	34.3	53.1	88.9	158.6	273.0	440.4	680.0	981.0
25°	0.0	6.0	18.9	35.4	54.8	94.7	172.2	298.5	484.0	738.5	1052.8
22.5°	0.0	6.1	19.5	36.4	56.4	100.0	184.6	321.7	523.8	796.4	1133.8
20°	0.0	6.2	20.0	37.3	57.9	104.8	195.8	342.7	559.7	848.6	1206.9
17.5°	0.0	6.3	20.4	38.1	59.2	109.0	205.7	361.3	591.6	895.1	1272.0
15°	0.0	6.4	20.8	38.8	60.3	112.7	214.3	377.5	619.4	935.6	1328.8
12.5°	0.0	6.4	21.1	39.3	61.2	115.8	221.6	391.3	643.0	970.1	1377.1
10°	0.0	6.5	21.3	39.8	62.0	118.4	227.6	402.6	662.5	998.4	1416.9
7.5°	0.0	6.5	21.5	40.2	62.6	120.4	232.3	411.4	677.6	1020.5	1447.9
5°	0.0	6.6	21.7	40.5	63.1	121.8	235.7	417.7	688.5	1036.4	1470.2
2.5°	0.0	6.6	21.8	40.6	63.3	122.7	237.7	421.5	695.0	1045.9	1483.5
0°	0.0	6.6	21.8	40.7	63.4	123.0	238.4	422.8	697.2	1049.1	1488.0
-2.5°	0.0	6.6	21.8	40.6	63.3	122.7	237.7	421.5	695.0	1045.9	1483.5
-5°	0.0	6.6	21.7	40.5	63.1	121.8	235.7	417.7	688.5	1036.4	1470.2
-7.5°	0.0	6.5	21.5	40.2	62.6	120.4	232.3	411.4	677.6	1020.5	1447.9
-10°	0.0	6.5	21.3	39.8	62.0	118.4	227.6	402.6	662.5	998.4	1416.9
-12.5°	0.0	6.4	21.1	39.3	61.2	115.8	221.6	391.3	643.0	970.1	1377.1
-15°	0.0	6.4	20.8	38.8	60.3	112.7	214.3	377.5	619.4	935.6	1328.8
-17.5°	0.0	6.3	20.4	38.1	59.2	109.0	205.7	361.3	591.6	895.1	1272.0
-20°	0.0	6.2	20.0	37.3	57.9	104.8	195.8	342.7	559.7	848.6	1206.9



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 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.1	19.5	36.4	56.4	100.0	184.6	321.7	523.8	796.4	1133.8
-25°	0.0	6.0	18.9	35.4	54.8	94.7	172.2	298.5	484.0	738.5	1052.8
-27.5°	0.0	5.9	18.4	34.3	53.1	88.9	158.6	273.0	440.4	680.0	981.0
-30°	0.0	5.7	17.7	33.1	51.1	82.6	143.9	245.4	402.8	626.4	904.0
-32.5°	0.0	5.6	17.0	31.8	49.1	75.7	128.0	224.2	368.6	568.7	821.2
-35°	0.0	5.4	16.3	30.4	46.9	68.5	116.8	204.2	332.1	507.2	733.0
-37.5°	0.0	5.2	15.5	28.9	44.5	62.4	107.5	183.1	293.3	441.9	652.2
-40°	0.0	5.1	14.7	27.4	42.0	59.3	97.6	160.8	252.3	389.4	575.3
-42.5°	0.0	4.9	13.8	25.7	39.6	56.0	87.3	137.3	220.2	340.8	494.7
-45°	0.0	4.7	12.9	24.0	37.3	52.5	76.4	117.7	192.0	290.0	414.5
-47.5°	0.0	4.5	11.9	22.2	34.9	48.9	65.1	104.4	162.7	237.6	355.7
-50°	0.0	4.2	10.9	20.7	32.4	45.2	59.6	90.7	132.2	203.3	294.7
-52.5°	0.0	4.0	9.9	19.1	29.9	41.3	54.9	76.5	111.5	167.8	234.2
-55°	0.0	3.8	8.8	17.5	27.2	37.9	50.1	62.8	94.7	131.3	193.6
-57.5°	0.0	3.5	7.7	15.9	24.5	34.5	45.2	57.0	77.4	107.9	151.8
-60°	0.0	3.3	6.6	14.2	21.7	31.0	40.2	51.1	62.0	88.0	115.8
-62.5°	0.0	3.0	6.1	12.4	19.4	27.4	35.9	45.1	55.1	67.6	93.3
-65°	0.0	2.8	5.6	10.6	17.0	23.7	31.5	39.2	48.1	57.1	70.3
-67.5°	0.0	2.5	5.0	8.8	14.6	20.3	27.0	34.0	40.9	49.1	57.1
-70°	0.0	2.3	4.5	7.0	12.1	17.2	22.4	28.6	34.8	40.9	48.1
-72.5°	0.0	2.0	4.0	5.9	9.6	14.1	18.5	23.2	28.6	34.0	39.2
-75°	0.0	1.7	3.4	5.1	7.1	10.9	14.8	18.5	22.4	27.0	31.5
-77.5°	0.0	1.4	2.9	4.3	5.7	7.7	10.9	14.1	17.2	20.3	23.7
-80°	0.0	1.1	2.3	3.4	4.6	5.7	7.1	9.6	12.1	14.6	17.0
-82.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	7.0	8.8	10.6
-85°	0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.5	5.0	5.6
-87.5°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
-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: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

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°	3.0	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.2
85°	6.1	6.6	7.7	8.8	9.9	10.9	11.9	12.9	13.8	14.7	15.5
82.5°	12.4	14.2	15.9	17.5	19.1	20.7	22.2	24.0	25.7	27.4	28.9
80°	19.4	21.7	24.5	27.2	29.9	32.4	34.9	37.3	39.6	42.0	44.5
77.5°	27.4	31.0	34.5	37.9	41.3	45.2	48.9	52.5	56.0	59.3	62.4
75°	35.9	40.2	45.2	50.1	54.9	59.6	65.1	76.4	87.3	97.6	107.5
72.5°	45.1	51.1	57.0	62.8	76.5	90.7	104.4	117.7	137.3	160.8	183.1
70°	55.1	62.0	77.4	94.7	111.5	132.2	162.7	192.0	220.2	252.3	293.3
67.5°	67.6	88.0	107.9	131.3	167.8	203.3	237.6	290.0	340.8	389.4	441.9
65°	93.3	115.8	151.8	193.6	234.2	294.7	355.7	414.5	494.7	575.3	652.2
62.5°	118.5	162.2	209.1	264.8	336.2	405.5	497.1	593.7	686.6	797.8	906.9
60°	162.2	214.3	281.5	361.3	447.0	559.7	668.9	796.4	926.9	1052.8	1201.9
57.5°	209.1	281.5	369.7	472.2	597.5	726.0	878.0	1025.1	1196.0	1366.0	1536.5
55°	264.8	361.3	472.2	610.2	758.7	927.3	1101.6	1299.7	1491.5	1711.6	1922.3
52.5°	336.2	447.0	597.5	758.7	943.8	1143.1	1362.4	1592.3	1838.4	2087.9	2361.1
50°	405.5	559.7	726.0	927.3	1143.1	1383.5	1643.0	1915.1	2212.0	2517.5	2831.8
47.5°	497.1	668.9	878.0	1101.6	1362.4	1643.0	1940.9	2274.5	2612.2	2975.6	3329.0
45°	593.7	796.4	1025.1	1299.7	1592.3	1915.1	2274.5	2644.0	3048.0	3433.9	3788.2
42.5°	686.6	926.9	1196.0	1491.5	1838.4	2212.0	2612.2	3048.0	3468.6	3858.6	4146.8
40°	797.8	1052.8	1366.0	1711.6	2087.9	2517.5	2975.6	3433.9	3858.6	4167.8	4401.4
37.5°	906.9	1201.9	1536.5	1922.3	2361.1	2831.8	3329.0	3788.2	4146.8	4401.4	4938.0
35°	1010.4	1343.7	1721.6	2145.3	2621.8	3147.5	3648.6	4084.1	4358.6	4889.1	5709.8
32.5°	1122.7	1477.8	1896.7	2374.1	2897.5	3442.1	3951.5	4273.8	4743.5	5481.2	6881.8
30°	1237.1	1626.4	2071.2	2589.5	3160.2	3708.6	4148.6	4503.9	5172.7	6532.1	9605.5
27.5°	1343.7	1766.8	2256.1	2809.3	3403.1	3958.5	4306.1	4881.5	5957.3	8068.5	13038.3
25°	1442.2	1896.7	2427.2	3019.5	3617.6	4120.8	4501.9	5233.9	6825.9	11082.3	16620.7
22.5°	1540.9	2016.1	2584.0	3212.2	3814.8	4245.9	4803.5	5915.4	8405.3	13897.4	20047.6
20°	1638.2	2145.3	2736.2	3385.0	3993.7	4359.5	5078.1	6596.3	10782.4	16821.3	23428.9
17.5°	1724.9	2260.5	2878.7	3531.6	4099.1	4520.8	5376.0	7207.8	12921.7	19459.0	26596.7
15°	1800.5	2361.1	3003.4	3660.0	4181.1	4719.9	5872.4	8781.6	14958.9	21866.4	29418.7
12.5°	1865.0	2446.9	3109.7	3769.6	4251.1	4890.3	6297.6	10276.1	16810.2	24100.9	32236.2
10°	1918.0	2517.5	3197.3	3860.0	4309.0	5031.0	6649.3	11513.6	18345.6	25957.5	34582.5
7.5°	1959.5	2572.7	3265.8	3930.7	4354.3	5141.3	6925.2	12485.5	19553.1	27420.0	36434.1
5°	1989.2	2612.2	3315.0	3981.5	4386.8	5220.5	7123.5	13185.0	20423.0	28474.8	37771.6
2.5°	2007.0	2636.1	3344.5	4012.0	4406.4	5268.3	7243.1	13606.8	20947.9	29111.8	38580.2
0°	2013.0	2644.0	3354.4	4022.2	4412.9	5284.2	7283.0	13747.7	21123.4	29324.9	38850.8
-2.5°	2007.0	2636.1	3344.5	4012.0	4406.4	5268.3	7243.1	13606.8	20947.9	29111.8	38580.2
-5°	1989.2	2612.2	3315.0	3981.5	4386.8	5220.5	7123.5	13185.0	20423.0	28474.8	37771.6
-7.5°	1959.5	2572.7	3265.8	3930.7	4354.3	5141.3	6925.2	12485.5	19553.1	27420.0	36434.1
-10°	1918.0	2517.5	3197.3	3860.0	4309.0	5031.0	6649.3	11513.6	18345.6	25957.5	34582.5
-12.5°	1865.0	2446.9	3109.7	3769.6	4251.1	4890.3	6297.6	10276.1	16810.2	24100.9	32236.2
-15°	1800.5	2361.1	3003.4	3660.0	4181.1	4719.9	5872.4	8781.6	14958.9	21866.4	29418.7
-17.5°	1724.9	2260.5	2878.7	3531.6	4099.1	4520.8	5376.0	7207.8	12921.7	19459.0	26596.7
-20°	1638.2	2145.3	2736.2	3385.0	3993.7	4359.5	5078.1	6596.3	10782.4	16821.3	23428.9



REPORT NUMBER: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1540.9	2016.1	2584.0	3212.2	3814.8	4245.9	4803.5	5915.4	8405.3	13897.4	20047.6
-25°	1442.2	1896.7	2427.2	3019.5	3617.6	4120.8	4501.9	5233.9	6825.9	11082.3	16620.7
-27.5°	1343.7	1766.8	2256.1	2809.3	3403.1	3958.5	4306.1	4881.5	5957.3	8068.5	13038.3
-30°	1237.1	1626.4	2071.2	2589.5	3160.2	3708.6	4148.6	4503.9	5172.7	6532.1	9605.5
-32.5°	1122.7	1477.8	1896.7	2374.1	2897.5	3442.1	3951.5	4273.8	4743.5	5481.2	6881.8
-35°	1010.4	1343.7	1721.6	2145.3	2621.8	3147.5	3648.6	4084.1	4358.6	4889.1	5709.8
-37.5°	906.9	1201.9	1536.5	1922.3	2361.1	2831.8	3329.0	3788.2	4146.8	4401.4	4938.0
-40°	797.8	1052.8	1366.0	1711.6	2087.9	2517.5	2975.6	3433.9	3858.6	4167.8	4401.4
-42.5°	686.6	926.9	1196.0	1491.5	1838.4	2212.0	2612.2	3048.0	3468.6	3858.6	4146.8
-45°	593.7	796.4	1025.1	1299.7	1592.3	1915.1	2274.5	2644.0	3048.0	3433.9	3788.2
-47.5°	497.1	668.9	878.0	1101.6	1362.4	1643.0	1940.9	2274.5	2612.2	2975.6	3329.0
-50°	405.5	559.7	726.0	927.3	1143.1	1383.5	1643.0	1915.1	2212.0	2517.5	2831.8
-52.5°	336.2	447.0	597.5	758.7	943.8	1143.1	1362.4	1592.3	1838.4	2087.9	2361.1
-55°	264.8	361.3	472.2	610.2	758.7	927.3	1101.6	1299.7	1491.5	1711.6	1922.3
-57.5°	209.1	281.5	369.7	472.2	597.5	726.0	878.0	1025.1	1196.0	1366.0	1536.5
-60°	162.2	214.3	281.5	361.3	447.0	559.7	668.9	796.4	926.9	1052.8	1201.9
-62.5°	118.5	162.2	209.1	264.8	336.2	405.5	497.1	593.7	686.6	797.8	906.9
-65°	93.3	115.8	151.8	193.6	234.2	294.7	355.7	414.5	494.7	575.3	652.2
-67.5°	67.6	88.0	107.9	131.3	167.8	203.3	237.6	290.0	340.8	389.4	441.9
-70°	55.1	62.0	77.4	94.7	111.5	132.2	162.7	192.0	220.2	252.3	293.3
-72.5°	45.1	51.1	57.0	62.8	76.5	90.7	104.4	117.7	137.3	160.8	183.1
-75°	35.9	40.2	45.2	50.1	54.9	59.6	65.1	76.4	87.3	97.6	107.5
-77.5°	27.4	31.0	34.5	37.9	41.3	45.2	48.9	52.5	56.0	59.3	62.4
-80°	19.4	21.7	24.5	27.2	29.9	32.4	34.9	37.3	39.6	42.0	44.5
-82.5°	12.4	14.2	15.9	17.5	19.1	20.7	22.2	24.0	25.7	27.4	28.9
-85°	6.1	6.6	7.7	8.8	9.9	10.9	11.9	12.9	13.8	14.7	15.5
-87.5°	3.0	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	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



REPORT NUMBER: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

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°	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5
85°	16.3	17.0	17.7	18.4	18.9	19.5	20.0	20.4	20.8	21.1	21.3
82.5°	30.4	31.8	33.1	34.3	35.4	36.4	37.3	38.1	38.8	39.3	39.8
80°	46.9	49.1	51.1	53.1	54.8	56.4	57.9	59.2	60.3	61.2	62.0
77.5°	68.5	75.7	82.6	88.9	94.7	100.0	104.8	109.0	112.7	115.8	118.4
75°	116.8	128.0	143.9	158.6	172.2	184.6	195.8	205.7	214.3	221.6	227.6
72.5°	204.2	224.2	245.4	273.0	298.5	321.7	342.7	361.3	377.5	391.3	402.6
70°	332.1	368.6	402.8	440.4	484.0	523.8	559.7	591.6	619.4	643.0	662.5
67.5°	507.2	568.7	626.4	680.0	738.5	796.4	848.6	895.1	935.6	970.1	998.4
65°	733.0	821.2	904.0	981.0	1052.8	1133.8	1206.9	1272.0	1328.8	1377.1	1416.9
62.5°	1010.4	1122.7	1237.1	1343.7	1442.2	1540.9	1638.2	1724.9	1800.5	1865.0	1918.0
60°	1343.7	1477.8	1626.4	1766.8	1896.7	2016.1	2145.3	2260.5	2361.1	2446.9	2517.5
57.5°	1721.6	1896.7	2071.2	2256.1	2427.2	2584.0	2736.2	2878.7	3003.4	3109.7	3197.3
55°	2145.3	2374.1	2589.5	2809.3	3019.5	3212.2	3385.0	3531.6	3660.0	3769.6	3860.0
52.5°	2621.8	2897.5	3160.2	3403.1	3617.6	3814.8	3993.7	4099.1	4181.1	4251.1	4309.0
50°	3147.5	3442.1	3708.6	3958.5	4120.8	4245.9	4359.5	4520.8	4719.9	4890.3	5031.0
47.5°	3648.6	3951.5	4148.6	4306.1	4501.9	4803.5	5078.1	5376.0	5872.4	6297.6	6649.3
45°	4084.1	4273.8	4503.9	4881.5	5233.9	5915.4	6596.3	7207.8	8781.6	10276.1	11513.6
42.5°	4358.6	4743.5	5172.7	5957.3	6825.9	8405.3	10782.4	12921.7	14958.9	16810.2	18345.6
40°	4889.1	5481.2	6532.1	8068.5	11082.3	13897.4	16821.3	19459.0	21866.4	24100.9	25957.5
37.5°	5709.8	6881.8	9605.5	13038.3	16620.7	20047.6	23428.9	26596.7	29418.7	32236.2	34582.5
35°	6999.2	10382.7	14298.4	18473.6	22555.7	26643.7	30588.2	34561.0	38094.6	41284.1	43982.5
32.5°	10382.7	14755.3	19411.7	24160.7	28836.7	33846.5	38555.3	43068.0	47111.3	51140.3	54966.7
30°	14298.4	19411.7	24700.5	30049.6	35841.0	41425.6	46771.5	52487.8	58187.7	63642.7	69531.1
27.5°	18473.6	24160.7	30049.6	36512.7	42892.8	49086.5	56554.5	64006.4	72716.3	80356.1	86598.1
25°	22555.7	28836.7	35841.0	42892.8	50083.8	58627.3	68549.1	78990.0	88188.1	96264.2	103037.8
22.5°	26643.7	33846.5	41425.6	49086.5	58627.3	70085.0	82140.1	93044.9	102913.7	111604.1	119469.0
20°	30588.2	38555.3	46771.5	56554.5	68549.1	82140.1	94692.1	106316.4	117123.7	127873.0	137592.0
17.5°	34561.0	43068.0	52487.8	64006.4	78990.0	93044.9	106316.4	119178.3	132230.0	146140.9	158943.5
15°	38094.6	47111.3	58187.7	72716.3	88188.1	102913.7	117123.7	132230.0	149073.1	165862.4	181838.9
12.5°	41284.1	51140.3	63642.7	80356.1	96264.2	111604.1	127873.0	146140.9	165862.4	185719.2	201143.5
10°	43982.5	54966.7	69531.1	86598.1	103037.8	119469.0	137592.0	158943.5	181838.9	201143.5	216427.8
7.5°	46116.8	58001.7	74217.5	91585.9	108452.4	126244.9	146974.2	170648.4	193985.4	213261.3	224335.0
5°	47661.3	60202.8	77625.5	95225.7	112421.2	131240.4	153944.7	179502.3	202666.7	220025.3	230377.6
2.5°	48596.3	61537.2	79695.7	97442.1	114845.7	134305.0	158245.9	185010.6	208132.6	223311.6	233767.5
0°	48909.3	61984.4	80390.1	98186.5	115661.4	135338.4	159700.8	186882.2	210002.5	224246.9	234877.7
-2.5°	48596.3	61537.2	79695.7	97442.1	114845.7	134305.0	158245.9	185010.6	208132.6	223311.6	233767.5
-5°	47661.3	60202.8	77625.5	95225.7	112421.2	131240.4	153944.7	179502.3	202666.7	220025.3	230377.6
-7.5°	46116.8	58001.7	74217.5	91585.9	108452.4	126244.9	146974.2	170648.4	193985.4	213261.3	224335.0
-10°	43982.5	54966.7	69531.1	86598.1	103037.8	119469.0	137592.0	158943.5	181838.9	201143.5	216427.8
-12.5°	41284.1	51140.3	63642.7	80356.1	96264.2	111604.1	127873.0	146140.9	165862.4	185719.2	201143.5
-15°	38094.6	47111.3	58187.7	72716.3	88188.1	102913.7	117123.7	132230.0	149073.1	165862.4	181838.9
-17.5°	34561.0	43068.0	52487.8	64006.4	78990.0	93044.9	106316.4	119178.3	132230.0	146140.9	158943.5
-20°	30588.2	38555.3	46771.5	56554.5	68549.1	82140.1	94692.1	106316.4	117123.7	127873.0	137592.0



REPORT NUMBER: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	26643.7	33846.5	41425.6	49086.5	58627.3	70085.0	82140.1	93044.9	102913.7	111604.1	119469.0
-25°	22555.7	28836.7	35841.0	42892.8	50083.8	58627.3	68549.1	78990.0	88188.1	96264.2	103037.8
-27.5°	18473.6	24160.7	30049.6	36512.7	42892.8	49086.5	56554.5	64006.4	72716.3	80356.1	86598.1
-30°	14298.4	19411.7	24700.5	30049.6	35841.0	41425.6	46771.5	52487.8	58187.7	63642.7	69531.1
-32.5°	10382.7	14755.3	19411.7	24160.7	28836.7	33846.5	38555.3	43068.0	47111.3	51140.3	54966.7
-35°	6999.2	10382.7	14298.4	18473.6	22555.7	26643.7	30588.2	34561.0	38094.6	41284.1	43982.5
-37.5°	5709.8	6881.8	9605.5	13038.3	16620.7	20047.6	23428.9	26596.7	29418.7	32236.2	34582.5
-40°	4889.1	5481.2	6532.1	8068.5	11082.3	13897.4	16821.3	19459.0	21866.4	24100.9	25957.5
-42.5°	4358.6	4743.5	5172.7	5957.3	6825.9	8405.3	10782.4	12921.7	14958.9	16810.2	18345.6
-45°	4084.1	4273.8	4503.9	4881.5	5233.9	5915.4	6596.3	7207.8	8781.6	10276.1	11513.6
-47.5°	3648.6	3951.5	4148.6	4306.1	4501.9	4803.5	5078.1	5376.0	5872.4	6297.6	6649.3
-50°	3147.5	3442.1	3708.6	3958.5	4120.8	4245.9	4359.5	4520.8	4719.9	4890.3	5031.0
-52.5°	2621.8	2897.5	3160.2	3403.1	3617.6	3814.8	3993.7	4099.1	4181.1	4251.1	4309.0
-55°	2145.3	2374.1	2589.5	2809.3	3019.5	3212.2	3385.0	3531.6	3660.0	3769.6	3860.0
-57.5°	1721.6	1896.7	2071.2	2256.1	2427.2	2584.0	2736.2	2878.7	3003.4	3109.7	3197.3
-60°	1343.7	1477.8	1626.4	1766.8	1896.7	2016.1	2145.3	2260.5	2361.1	2446.9	2517.5
-62.5°	1010.4	1122.7	1237.1	1343.7	1442.2	1540.9	1638.2	1724.9	1800.5	1865.0	1918.0
-65°	733.0	821.2	904.0	981.0	1052.8	1133.8	1206.9	1272.0	1328.8	1377.1	1416.9
-67.5°	507.2	568.7	626.4	680.0	738.5	796.4	848.6	895.1	935.6	970.1	998.4
-70°	332.1	368.6	402.8	440.4	484.0	523.8	559.7	591.6	619.4	643.0	662.5
-72.5°	204.2	224.2	245.4	273.0	298.5	321.7	342.7	361.3	377.5	391.3	402.6
-75°	116.8	128.0	143.9	158.6	172.2	184.6	195.8	205.7	214.3	221.6	227.6
-77.5°	68.5	75.7	82.6	88.9	94.7	100.0	104.8	109.0	112.7	115.8	118.4
-80°	46.9	49.1	51.1	53.1	54.8	56.4	57.9	59.2	60.3	61.2	62.0
-82.5°	30.4	31.8	33.1	34.3	35.4	36.4	37.3	38.1	38.8	39.3	39.8
-85°	16.3	17.0	17.7	18.4	18.9	19.5	20.0	20.4	20.8	21.1	21.3
-87.5°	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5
-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: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

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°	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.3
85°	21.5	21.7	21.8	21.8	21.8	21.7	21.5	21.3	21.1	20.8	20.4
82.5°	40.2	40.5	40.6	40.7	40.6	40.5	40.2	39.8	39.3	38.8	38.1
80°	62.6	63.1	63.3	63.4	63.3	63.1	62.6	62.0	61.2	60.3	59.2
77.5°	120.4	121.8	122.7	123.0	122.7	121.8	120.4	118.4	115.8	112.7	109.0
75°	232.3	235.7	237.7	238.4	237.7	235.7	232.3	227.6	221.6	214.3	205.7
72.5°	411.4	417.7	421.5	422.8	421.5	417.7	411.4	402.6	391.3	377.5	361.3
70°	677.6	688.5	695.0	697.2	695.0	688.5	677.6	662.5	643.0	619.4	591.6
67.5°	1020.5	1036.4	1045.9	1049.1	1045.9	1036.4	1020.5	998.4	970.1	935.6	895.1
65°	1447.9	1470.2	1483.5	1488.0	1483.5	1470.2	1447.9	1416.9	1377.1	1328.8	1272.0
62.5°	1959.5	1989.2	2007.0	2013.0	2007.0	1989.2	1959.5	1918.0	1865.0	1800.5	1724.9
60°	2572.7	2612.2	2636.1	2644.0	2636.1	2612.2	2572.7	2517.5	2446.9	2361.1	2260.5
57.5°	3265.8	3315.0	3344.5	3354.4	3344.5	3315.0	3265.8	3197.3	3109.7	3003.4	2878.7
55°	3930.7	3981.5	4012.0	4022.2	4012.0	3981.5	3930.7	3860.0	3769.6	3660.0	3531.6
52.5°	4354.3	4386.8	4406.4	4412.9	4406.4	4386.8	4354.3	4309.0	4251.1	4181.1	4099.1
50°	5141.3	5220.5	5268.3	5284.2	5268.3	5220.5	5141.3	5031.0	4890.3	4719.9	4520.8
47.5°	6925.2	7123.5	7243.1	7283.0	7243.1	7123.5	6925.2	6649.3	6297.6	5872.4	5376.0
45°	12485.5	13185.0	13606.8	13747.7	13606.8	13185.0	12485.5	11513.6	10276.1	8781.6	7207.8
42.5°	19553.1	20423.0	20947.9	21123.4	20947.9	20423.0	19553.1	18345.6	16810.2	14958.9	12921.7
40°	27420.0	28474.8	29111.8	29324.9	29111.8	28474.8	27420.0	25957.5	24100.9	21866.4	19459.0
37.5°	36434.1	37771.6	38580.2	38850.8	38580.2	37771.6	36434.1	34582.5	32236.2	29418.7	26596.7
35°	46116.8	47661.3	48596.3	48909.3	48596.3	47661.3	46116.8	43982.5	41284.1	38094.6	34561.0
32.5°	58001.7	60202.8	61537.2	61984.4	61537.2	60202.8	58001.7	54966.7	51140.3	47111.3	43068.0
30°	74217.5	77625.5	79695.7	80390.1	79695.7	77625.5	74217.5	69531.1	63642.7	58187.7	52487.8
27.5°	91585.9	95225.7	97442.1	98186.5	97442.1	95225.7	91585.9	86598.1	80356.1	72716.3	64006.4
25°	108452.4	112421.2	114845.7	115661.4	114845.7	112421.2	108452.4	103037.8	96264.2	88188.1	78990.0
22.5°	126244.9	131240.4	134305.0	135338.4	134305.0	131240.4	126244.9	119469.0	111604.1	102913.7	93044.9
20°	146974.2	153944.7	158245.9	159700.8	158245.9	153944.7	146974.2	137592.0	127873.0	117123.7	106316.4
17.5°	170648.4	179502.3	185010.6	186882.2	185010.6	179502.3	170648.4	158943.5	146140.9	132230.0	119178.3
15°	193985.4	202666.7	208132.6	210002.5	208132.6	202666.7	193985.4	181838.9	165862.4	149073.1	132230.0
12.5°	213261.3	220025.3	223311.6	224246.9	223311.6	220025.3	213261.3	201143.5	185719.2	165862.4	146140.9
10°	224335.0	230377.6	233767.5	234877.7	233767.5	230377.6	224335.0	216427.8	201143.5	181838.9	158943.5
7.5°	232722.7	237253.9	240161.9	241162.2	240161.9	237253.9	232722.7	224335.0	213261.3	193985.4	170648.4
5°	237253.9	242236.8	245323.3	246460.1	245323.3	242236.8	237253.9	230377.6	220025.3	202666.7	179502.3
2.5°	240161.9	245323.3	247645.6	248028.5	247645.6	245323.3	240161.9	233767.5	223311.6	208132.6	185010.6
0°	241162.2	246460.1	248028.5	248324.6	248028.5	246460.1	241162.2	234877.7	224246.9	210002.5	186882.2
-2.5°	240161.9	245323.3	247645.6	248028.5	247645.6	245323.3	240161.9	233767.5	223311.6	208132.6	185010.6
-5°	237253.9	242236.8	245323.3	246460.1	245323.3	242236.8	237253.9	230377.6	220025.3	202666.7	179502.3
-7.5°	232722.7	237253.9	240161.9	241162.2	240161.9	237253.9	232722.7	224335.0	213261.3	193985.4	170648.4
-10°	224335.0	230377.6	233767.5	234877.7	233767.5	230377.6	224335.0	216427.8	201143.5	181838.9	158943.5
-12.5°	213261.3	220025.3	223311.6	224246.9	223311.6	220025.3	213261.3	201143.5	185719.2	165862.4	146140.9
-15°	193985.4	202666.7	208132.6	210002.5	208132.6	202666.7	193985.4	181838.9	165862.4	149073.1	132230.0
-17.5°	170648.4	179502.3	185010.6	186882.2	185010.6	179502.3	170648.4	158943.5	146140.9	132230.0	119178.3
-20°	146974.2	153944.7	158245.9	159700.8	158245.9	153944.7	146974.2	137592.0	127873.0	117123.7	106316.4



REPORT NUMBER: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	126244.9	131240.4	134305.0	135338.4	134305.0	131240.4	126244.9	119469.0	111604.1	102913.7	93044.9
-25°	108452.4	112421.2	114845.7	115661.4	114845.7	112421.2	108452.4	103037.8	96264.2	88188.1	78990.0
-27.5°	91585.9	95225.7	97442.1	98186.5	97442.1	95225.7	91585.9	86598.1	80356.1	72716.3	64006.4
-30°	74217.5	77625.5	79695.7	80390.1	79695.7	77625.5	74217.5	69531.1	63642.7	58187.7	52487.8
-32.5°	58001.7	60202.8	61537.2	61984.4	61537.2	60202.8	58001.7	54966.7	51140.3	47111.3	43068.0
-35°	46116.8	47661.3	48596.3	48909.3	48596.3	47661.3	46116.8	43982.5	41284.1	38094.6	34561.0
-37.5°	36434.1	37771.6	38580.2	38850.8	38580.2	37771.6	36434.1	34582.5	32236.2	29418.7	26596.7
-40°	27420.0	28474.8	29111.8	29324.9	29111.8	28474.8	27420.0	25957.5	24100.9	21866.4	19459.0
-42.5°	19553.1	20423.0	20947.9	21123.4	20947.9	20423.0	19553.1	18345.6	16810.2	14958.9	12921.7
-45°	12485.5	13185.0	13606.8	13747.7	13606.8	13185.0	12485.5	11513.6	10276.1	8781.6	7207.8
-47.5°	6925.2	7123.5	7243.1	7283.0	7243.1	7123.5	6925.2	6649.3	6297.6	5872.4	5376.0
-50°	5141.3	5220.5	5268.3	5284.2	5268.3	5220.5	5141.3	5031.0	4890.3	4719.9	4520.8
-52.5°	4354.3	4386.8	4406.4	4412.9	4406.4	4386.8	4354.3	4309.0	4251.1	4181.1	4099.1
-55°	3930.7	3981.5	4012.0	4022.2	4012.0	3981.5	3930.7	3860.0	3769.6	3660.0	3531.6
-57.5°	3265.8	3315.0	3344.5	3354.4	3344.5	3315.0	3265.8	3197.3	3109.7	3003.4	2878.7
-60°	2572.7	2612.2	2636.1	2644.0	2636.1	2612.2	2572.7	2517.5	2446.9	2361.1	2260.5
-62.5°	1959.5	1989.2	2007.0	2013.0	2007.0	1989.2	1959.5	1918.0	1865.0	1800.5	1724.9
-65°	1447.9	1470.2	1483.5	1488.0	1483.5	1470.2	1447.9	1416.9	1377.1	1328.8	1272.0
-67.5°	1020.5	1036.4	1045.9	1049.1	1045.9	1036.4	1020.5	998.4	970.1	935.6	895.1
-70°	677.6	688.5	695.0	697.2	695.0	688.5	677.6	662.5	643.0	619.4	591.6
-72.5°	411.4	417.7	421.5	422.8	421.5	417.7	411.4	402.6	391.3	377.5	361.3
-75°	232.3	235.7	237.7	238.4	237.7	235.7	232.3	227.6	221.6	214.3	205.7
-77.5°	120.4	121.8	122.7	123.0	122.7	121.8	120.4	118.4	115.8	112.7	109.0
-80°	62.6	63.1	63.3	63.4	63.3	63.1	62.6	62.0	61.2	60.3	59.2
-82.5°	40.2	40.5	40.6	40.7	40.6	40.5	40.2	39.8	39.3	38.8	38.1
-85°	21.5	21.7	21.8	21.8	21.8	21.7	21.5	21.3	21.1	20.8	20.4
-87.5°	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.3
-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: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

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°	6.2	6.1	6.0	5.9	5.7	5.6	5.4	5.2	5.1	4.9	4.7
85°	20.0	19.5	18.9	18.4	17.7	17.0	16.3	15.5	14.7	13.8	12.9
82.5°	37.3	36.4	35.4	34.3	33.1	31.8	30.4	28.9	27.4	25.7	24.0
80°	57.9	56.4	54.8	53.1	51.1	49.1	46.9	44.5	42.0	39.6	37.3
77.5°	104.8	100.0	94.7	88.9	82.6	75.7	68.5	62.4	59.3	56.0	52.5
75°	195.8	184.6	172.2	158.6	143.9	128.0	116.8	107.5	97.6	87.3	76.4
72.5°	342.7	321.7	298.5	273.0	245.4	224.2	204.2	183.1	160.8	137.3	117.7
70°	559.7	523.8	484.0	440.4	402.8	368.6	332.1	293.3	252.3	220.2	192.0
67.5°	848.6	796.4	738.5	680.0	626.4	568.7	507.2	441.9	389.4	340.8	290.0
65°	1206.9	1133.8	1052.8	981.0	904.0	821.2	733.0	652.2	575.3	494.7	414.5
62.5°	1638.2	1540.9	1442.2	1343.7	1237.1	1122.7	1010.4	906.9	797.8	686.6	593.7
60°	2145.3	2016.1	1896.7	1766.8	1626.4	1477.8	1343.7	1201.9	1052.8	926.9	796.4
57.5°	2736.2	2584.0	2427.2	2256.1	2071.2	1896.7	1721.6	1536.5	1366.0	1196.0	1025.1
55°	3385.0	3212.2	3019.5	2809.3	2589.5	2374.1	2145.3	1922.3	1711.6	1491.5	1299.7
52.5°	3993.7	3814.8	3617.6	3403.1	3160.2	2897.5	2621.8	2361.1	2087.9	1838.4	1592.3
50°	4359.5	4245.9	4120.8	3958.5	3708.6	3442.1	3147.5	2831.8	2517.5	2212.0	1915.1
47.5°	5078.1	4803.5	4501.9	4306.1	4148.6	3951.5	3648.6	3329.0	2975.6	2612.2	2274.5
45°	6596.3	5915.4	5233.9	4881.5	4503.9	4273.8	4084.1	3788.2	3433.9	3048.0	2644.0
42.5°	10782.4	8405.3	6825.9	5957.3	5172.7	4743.5	4358.6	4146.8	3858.6	3468.6	3048.0
40°	16821.3	13897.4	11082.3	8068.5	6532.1	5481.2	4889.1	4401.4	4167.8	3858.6	3433.9
37.5°	23428.9	20047.6	16620.7	13038.3	9605.5	6881.8	5709.8	4938.0	4401.4	4146.8	3788.2
35°	30588.2	26643.7	22555.7	18473.6	14298.4	10382.7	6999.2	5709.8	4889.1	4358.6	4084.1
32.5°	38555.3	33846.5	28836.7	24160.7	19411.7	14755.3	10382.7	6881.8	5481.2	4743.5	4273.8
30°	46771.5	41425.6	35841.0	30049.6	24700.5	19411.7	14298.4	9605.5	6532.1	5172.7	4503.9
27.5°	56554.5	49086.5	42892.8	36512.7	30049.6	24160.7	18473.6	13038.3	8068.5	5957.3	4881.5
25°	68549.1	58627.3	50083.8	42892.8	35841.0	28836.7	22555.7	16620.7	11082.3	6825.9	5233.9
22.5°	82140.1	70085.0	58627.3	49086.5	41425.6	33846.5	26643.7	20047.6	13897.4	8405.3	5915.4
20°	94692.1	82140.1	68549.1	56554.5	46771.5	38555.3	30588.2	23428.9	16821.3	10782.4	6596.3
17.5°	106316.4	93044.9	78990.0	64006.4	52487.8	43068.0	34561.0	26596.7	19459.0	12921.7	7207.8
15°	117123.7	102913.7	88188.1	72716.3	58187.7	47111.3	38094.6	29418.7	21866.4	14958.9	8781.6
12.5°	127873.0	111604.1	96264.2	80356.1	63642.7	51140.3	41284.1	32236.2	24100.9	16810.2	10276.1
10°	137592.0	119469.0	103037.8	86598.1	69531.1	54966.7	43982.5	34582.5	25957.5	18345.6	11513.6
7.5°	146974.2	126244.9	108452.4	91585.9	74217.5	58001.7	46116.8	36434.1	27420.0	19553.1	12485.5
5°	153944.7	131240.4	112421.2	95225.7	77625.5	60202.8	47661.3	37771.6	28474.8	20423.0	13185.0
2.5°	158245.9	134305.0	114845.7	97442.1	79695.7	61537.2	48596.3	38580.2	29111.8	20947.9	13606.8
0°	159700.8	135338.4	115661.4	98186.5	80390.1	61984.4	48909.3	38850.8	29324.9	21123.4	13747.7
-2.5°	158245.9	134305.0	114845.7	97442.1	79695.7	61537.2	48596.3	38580.2	29111.8	20947.9	13606.8
-5°	153944.7	131240.4	112421.2	95225.7	77625.5	60202.8	47661.3	37771.6	28474.8	20423.0	13185.0
-7.5°	146974.2	126244.9	108452.4	91585.9	74217.5	58001.7	46116.8	36434.1	27420.0	19553.1	12485.5
-10°	137592.0	119469.0	103037.8	86598.1	69531.1	54966.7	43982.5	34582.5	25957.5	18345.6	11513.6
-12.5°	127873.0	111604.1	96264.2	80356.1	63642.7	51140.3	41284.1	32236.2	24100.9	16810.2	10276.1
-15°	117123.7	102913.7	88188.1	72716.3	58187.7	47111.3	38094.6	29418.7	21866.4	14958.9	8781.6
-17.5°	106316.4	93044.9	78990.0	64006.4	52487.8	43068.0	34561.0	26596.7	19459.0	12921.7	7207.8
-20°	94692.1	82140.1	68549.1	56554.5	46771.5	38555.3	30588.2	23428.9	16821.3	10782.4	6596.3



REPORT NUMBER: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	82140.1	70085.0	58627.3	49086.5	41425.6	33846.5	26643.7	20047.6	13897.4	8405.3	5915.4
-25°	68549.1	58627.3	50083.8	42892.8	35841.0	28836.7	22555.7	16620.7	11082.3	6825.9	5233.9
-27.5°	56554.5	49086.5	42892.8	36512.7	30049.6	24160.7	18473.6	13038.3	8068.5	5957.3	4881.5
-30°	46771.5	41425.6	35841.0	30049.6	24700.5	19411.7	14298.4	9605.5	6532.1	5172.7	4503.9
-32.5°	38555.3	33846.5	28836.7	24160.7	19411.7	14755.3	10382.7	6881.8	5481.2	4743.5	4273.8
-35°	30588.2	26643.7	22555.7	18473.6	14298.4	10382.7	6999.2	5709.8	4889.1	4358.6	4084.1
-37.5°	23428.9	20047.6	16620.7	13038.3	9605.5	6881.8	5709.8	4938.0	4401.4	4146.8	3788.2
-40°	16821.3	13897.4	11082.3	8068.5	6532.1	5481.2	4889.1	4401.4	4167.8	3858.6	3433.9
-42.5°	10782.4	8405.3	6825.9	5957.3	5172.7	4743.5	4358.6	4146.8	3858.6	3468.6	3048.0
-45°	6596.3	5915.4	5233.9	4881.5	4503.9	4273.8	4084.1	3788.2	3433.9	3048.0	2644.0
-47.5°	5078.1	4803.5	4501.9	4306.1	4148.6	3951.5	3648.6	3329.0	2975.6	2612.2	2274.5
-50°	4359.5	4245.9	4120.8	3958.5	3708.6	3442.1	3147.5	2831.8	2517.5	2212.0	1915.1
-52.5°	3993.7	3814.8	3617.6	3403.1	3160.2	2897.5	2621.8	2361.1	2087.9	1838.4	1592.3
-55°	3385.0	3212.2	3019.5	2809.3	2589.5	2374.1	2145.3	1922.3	1711.6	1491.5	1299.7
-57.5°	2736.2	2584.0	2427.2	2256.1	2071.2	1896.7	1721.6	1536.5	1366.0	1196.0	1025.1
-60°	2145.3	2016.1	1896.7	1766.8	1626.4	1477.8	1343.7	1201.9	1052.8	926.9	796.4
-62.5°	1638.2	1540.9	1442.2	1343.7	1237.1	1122.7	1010.4	906.9	797.8	686.6	593.7
-65°	1206.9	1133.8	1052.8	981.0	904.0	821.2	733.0	652.2	575.3	494.7	414.5
-67.5°	848.6	796.4	738.5	680.0	626.4	568.7	507.2	441.9	389.4	340.8	290.0
-70°	559.7	523.8	484.0	440.4	402.8	368.6	332.1	293.3	252.3	220.2	192.0
-72.5°	342.7	321.7	298.5	273.0	245.4	224.2	204.2	183.1	160.8	137.3	117.7
-75°	195.8	184.6	172.2	158.6	143.9	128.0	116.8	107.5	97.6	87.3	76.4
-77.5°	104.8	100.0	94.7	88.9	82.6	75.7	68.5	62.4	59.3	56.0	52.5
-80°	57.9	56.4	54.8	53.1	51.1	49.1	46.9	44.5	42.0	39.6	37.3
-82.5°	37.3	36.4	35.4	34.3	33.1	31.8	30.4	28.9	27.4	25.7	24.0
-85°	20.0	19.5	18.9	18.4	17.7	17.0	16.3	15.5	14.7	13.8	12.9
-87.5°	6.2	6.1	6.0	5.9	5.7	5.6	5.4	5.2	5.1	4.9	4.7
-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: P699932 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5S-S

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°	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3	2.0
85°	11.9	10.9	9.9	8.8	7.7	6.6	6.1	5.6	5.0	4.5	4.0
82.5°	22.2	20.7	19.1	17.5	15.9	14.2	12.4	10.6	8.8	7.0	5.9
80°	34.9	32.4	29.9	27.2	24.5	21.7	19.4	17.0	14.6	12.1	9.6
77.5°	48.9	45.2	41.3	37.9	34.5	31.0	27.4	23.7	20.3	17.2	14.1
75°	65.1	59.6	54.9	50.1	45.2	40.2	35.9	31.5	27.0	22.4	18.5
72.5°	104.4	90.7	76.5	62.8	57.0	51.1	45.1	39.2	34.0	28.6	23.2
70°	162.7	132.2	111.5	94.7	77.4	62.0	55.1	48.1	40.9	34.8	28.6
67.5°	237.6	203.3	167.8	131.3	107.9	88.0	67.6	57.1	49.1	40.9	34.0
65°	355.7	294.7	234.2	193.6	151.8	115.8	93.3	70.3	57.1	48.1	39.2
62.5°	497.1	405.5	336.2	264.8	209.1	162.2	118.5	93.3	67.6	55.1	45.1
60°	668.9	559.7	447.0	361.3	281.5	214.3	162.2	115.8	88.0	62.0	51.1
57.5°	878.0	726.0	597.5	472.2	369.7	281.5	209.1	151.8	107.9	77.4	57.0
55°	1101.6	927.3	758.7	610.2	472.2	361.3	264.8	193.6	131.3	94.7	62.8
52.5°	1362.4	1143.1	943.8	758.7	597.5	447.0	336.2	234.2	167.8	111.5	76.5
50°	1643.0	1383.5	1143.1	927.3	726.0	559.7	405.5	294.7	203.3	132.2	90.7
47.5°	1940.9	1643.0	1362.4	1101.6	878.0	668.9	497.1	355.7	237.6	162.7	104.4
45°	2274.5	1915.1	1592.3	1299.7	1025.1	796.4	593.7	414.5	290.0	192.0	117.7
42.5°	2612.2	2212.0	1838.4	1491.5	1196.0	926.9	686.6	494.7	340.8	220.2	137.3
40°	2975.6	2517.5	2087.9	1711.6	1366.0	1052.8	797.8	575.3	389.4	252.3	160.8
37.5°	3329.0	2831.8	2361.1	1922.3	1536.5	1201.9	906.9	652.2	441.9	293.3	183.1
35°	3648.6	3147.5	2621.8	2145.3	1721.6	1343.7	1010.4	733.0	507.2	332.1	204.2
32.5°	3951.5	3442.1	2897.5	2374.1	1896.7	1477.8	1122.7	821.2	568.7	368.6	224.2
30°	4148.6	3708.6	3160.2	2589.5	2071.2	1626.4	1237.1	904.0	626.4	402.8	245.4
27.5°	4306.1	3958.5	3403.1	2809.3	2256.1	1766.8	1343.7	981.0	680.0	440.4	273.0
25°	4501.9	4120.8	3617.6	3019.5	2427.2	1896.7	1442.2	1052.8	738.5	484.0	298.5
22.5°	4803.5	4245.9	3814.8	3212.2	2584.0	2016.1	1540.9	1133.8	796.4	523.8	321.7
20°	5078.1	4359.5	3993.7	3385.0	2736.2	2145.3	1638.2	1206.9	848.6	559.7	342.7
17.5°	5376.0	4520.8	4099.1	3531.6	2878.7	2260.5	1724.9	1272.0	895.1	591.6	361.3
15°	5872.4	4719.9	4181.1	3660.0	3003.4	2361.1	1800.5	1328.8	935.6	619.4	377.5
12.5°	6297.6	4890.3	4251.1	3769.6	3109.7	2446.9	1865.0	1377.1	970.1	643.0	391.3
10°	6649.3	5031.0	4309.0	3860.0	3197.3	2517.5	1918.0	1416.9	998.4	662.5	402.6
7.5°	6925.2	5141.3	4354.3	3930.7	3265.8	2572.7	1959.5	1447.9	1020.5	677.6	411.4
5°	7123.5	5220.5	4386.8	3981.5	3315.0	2612.2	1989.2	1470.2	1036.4	688.5	417.7
2.5°	7243.1	5268.3	4406.4	4012.0	3344.5	2636.1	2007.0	1483.5	1045.9	695.0	421.5
0°	7283.0	5284.2	4412.9	4022.2	3354.4	2644.0	2013.0	1488.0	1049.1	697.2	422.8
-2.5°	7243.1	5268.3	4406.4	4012.0	3344.5	2636.1	2007.0	1483.5	1045.9	695.0	421.5
-5°	7123.5	5220.5	4386.8	3981.5	3315.0	2612.2	1989.2	1470.2	1036.4	688.5	417.7
-7.5°	6925.2	5141.3	4354.3	3930.7	3265.8	2572.7	1959.5	1447.9	1020.5	677.6	411.4
-10°	6649.3	5031.0	4309.0	3860.0	3197.3	2517.5	1918.0	1416.9	998.4	662.5	402.6
-12.5°	6297.6	4890.3	4251.1	3769.6	3109.7	2446.9	1865.0	1377.1	970.1	643.0	391.3
-15°	5872.4	4719.9	4181.1	3660.0	3003.4	2361.1	1800.5	1328.8	935.6	619.4	377.5
-17.5°	5376.0	4520.8	4099.1	3531.6	2878.7	2260.5	1724.9	1272.0	895.1	591.6	361.3
-20°	5078.1	4359.5	3993.7	3385.0	2736.2	2145.3	1638.2	1206.9	848.6	559.7	342.7



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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°	4803.5	4245.9	3814.8	3212.2	2584.0	2016.1	1540.9	1133.8	796.4	523.8	321.7
-25°	4501.9	4120.8	3617.6	3019.5	2427.2	1896.7	1442.2	1052.8	738.5	484.0	298.5
-27.5°	4306.1	3958.5	3403.1	2809.3	2256.1	1766.8	1343.7	981.0	680.0	440.4	273.0
-30°	4148.6	3708.6	3160.2	2589.5	2071.2	1626.4	1237.1	904.0	626.4	402.8	245.4
-32.5°	3951.5	3442.1	2897.5	2374.1	1896.7	1477.8	1122.7	821.2	568.7	368.6	224.2
-35°	3648.6	3147.5	2621.8	2145.3	1721.6	1343.7	1010.4	733.0	507.2	332.1	204.2
-37.5°	3329.0	2831.8	2361.1	1922.3	1536.5	1201.9	906.9	652.2	441.9	293.3	183.1
-40°	2975.6	2517.5	2087.9	1711.6	1366.0	1052.8	797.8	575.3	389.4	252.3	160.8
-42.5°	2612.2	2212.0	1838.4	1491.5	1196.0	926.9	686.6	494.7	340.8	220.2	137.3
-45°	2274.5	1915.1	1592.3	1299.7	1025.1	796.4	593.7	414.5	290.0	192.0	117.7
-47.5°	1940.9	1643.0	1362.4	1101.6	878.0	668.9	497.1	355.7	237.6	162.7	104.4
-50°	1643.0	1383.5	1143.1	927.3	726.0	559.7	405.5	294.7	203.3	132.2	90.7
-52.5°	1362.4	1143.1	943.8	758.7	597.5	447.0	336.2	234.2	167.8	111.5	76.5
-55°	1101.6	927.3	758.7	610.2	472.2	361.3	264.8	193.6	131.3	94.7	62.8
-57.5°	878.0	726.0	597.5	472.2	369.7	281.5	209.1	151.8	107.9	77.4	57.0
-60°	668.9	559.7	447.0	361.3	281.5	214.3	162.2	115.8	88.0	62.0	51.1
-62.5°	497.1	405.5	336.2	264.8	209.1	162.2	118.5	93.3	67.6	55.1	45.1
-65°	355.7	294.7	234.2	193.6	151.8	115.8	93.3	70.3	57.1	48.1	39.2
-67.5°	237.6	203.3	167.8	131.3	107.9	88.0	67.6	57.1	49.1	40.9	34.0
-70°	162.7	132.2	111.5	94.7	77.4	62.0	55.1	48.1	40.9	34.8	28.6
-72.5°	104.4	90.7	76.5	62.8	57.0	51.1	45.1	39.2	34.0	28.6	23.2
-75°	65.1	59.6	54.9	50.1	45.2	40.2	35.9	31.5	27.0	22.4	18.5
-77.5°	48.9	45.2	41.3	37.9	34.5	31.0	27.4	23.7	20.3	17.2	14.1
-80°	34.9	32.4	29.9	27.2	24.5	21.7	19.4	17.0	14.6	12.1	9.6
-82.5°	22.2	20.7	19.1	17.5	15.9	14.2	12.4	10.6	8.8	7.0	5.9
-85°	11.9	10.9	9.9	8.8	7.7	6.6	6.1	5.6	5.0	4.5	4.0
-87.5°	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3	2.0
-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°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
85°	3.4	2.9	2.3	1.7	1.1	0.6	0.0
82.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
80°	7.1	5.7	4.6	3.4	2.3	1.1	0.0
77.5°	10.9	7.7	5.7	4.3	2.9	1.4	0.0
75°	14.8	10.9	7.1	5.1	3.4	1.7	0.0
72.5°	18.5	14.1	9.6	5.9	4.0	2.0	0.0
70°	22.4	17.2	12.1	7.0	4.5	2.3	0.0
67.5°	27.0	20.3	14.6	8.8	5.0	2.5	0.0
65°	31.5	23.7	17.0	10.6	5.6	2.8	0.0
62.5°	35.9	27.4	19.4	12.4	6.1	3.0	0.0
60°	40.2	31.0	21.7	14.2	6.6	3.3	0.0
57.5°	45.2	34.5	24.5	15.9	7.7	3.5	0.0
55°	50.1	37.9	27.2	17.5	8.8	3.8	0.0
52.5°	54.9	41.3	29.9	19.1	9.9	4.0	0.0
50°	59.6	45.2	32.4	20.7	10.9	4.2	0.0
47.5°	65.1	48.9	34.9	22.2	11.9	4.5	0.0
45°	76.4	52.5	37.3	24.0	12.9	4.7	0.0
42.5°	87.3	56.0	39.6	25.7	13.8	4.9	0.0
40°	97.6	59.3	42.0	27.4	14.7	5.1	0.0
37.5°	107.5	62.4	44.5	28.9	15.5	5.2	0.0
35°	116.8	68.5	46.9	30.4	16.3	5.4	0.0
32.5°	128.0	75.7	49.1	31.8	17.0	5.6	0.0
30°	143.9	82.6	51.1	33.1	17.7	5.7	0.0
27.5°	158.6	88.9	53.1	34.3	18.4	5.9	0.0
25°	172.2	94.7	54.8	35.4	18.9	6.0	0.0
22.5°	184.6	100.0	56.4	36.4	19.5	6.1	0.0
20°	195.8	104.8	57.9	37.3	20.0	6.2	0.0
17.5°	205.7	109.0	59.2	38.1	20.4	6.3	0.0
15°	214.3	112.7	60.3	38.8	20.8	6.4	0.0
12.5°	221.6	115.8	61.2	39.3	21.1	6.4	0.0
10°	227.6	118.4	62.0	39.8	21.3	6.5	0.0
7.5°	232.3	120.4	62.6	40.2	21.5	6.5	0.0
5°	235.7	121.8	63.1	40.5	21.7	6.6	0.0
2.5°	237.7	122.7	63.3	40.6	21.8	6.6	0.0
0°	238.4	123.0	63.4	40.7	21.8	6.6	0.0
-2.5°	237.7	122.7	63.3	40.6	21.8	6.6	0.0
-5°	235.7	121.8	63.1	40.5	21.7	6.6	0.0
-7.5°	232.3	120.4	62.6	40.2	21.5	6.5	0.0
-10°	227.6	118.4	62.0	39.8	21.3	6.5	0.0
-12.5°	221.6	115.8	61.2	39.3	21.1	6.4	0.0
-15°	214.3	112.7	60.3	38.8	20.8	6.4	0.0
-17.5°	205.7	109.0	59.2	38.1	20.4	6.3	0.0
-20°	195.8	104.8	57.9	37.3	20.0	6.2	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	184.6	100.0	56.4	36.4	19.5	6.1	0.0
-25°	172.2	94.7	54.8	35.4	18.9	6.0	0.0
-27.5°	158.6	88.9	53.1	34.3	18.4	5.9	0.0
-30°	143.9	82.6	51.1	33.1	17.7	5.7	0.0
-32.5°	128.0	75.7	49.1	31.8	17.0	5.6	0.0
-35°	116.8	68.5	46.9	30.4	16.3	5.4	0.0
-37.5°	107.5	62.4	44.5	28.9	15.5	5.2	0.0
-40°	97.6	59.3	42.0	27.4	14.7	5.1	0.0
-42.5°	87.3	56.0	39.6	25.7	13.8	4.9	0.0
-45°	76.4	52.5	37.3	24.0	12.9	4.7	0.0
-47.5°	65.1	48.9	34.9	22.2	11.9	4.5	0.0
-50°	59.6	45.2	32.4	20.7	10.9	4.2	0.0
-52.5°	54.9	41.3	29.9	19.1	9.9	4.0	0.0
-55°	50.1	37.9	27.2	17.5	8.8	3.8	0.0
-57.5°	45.2	34.5	24.5	15.9	7.7	3.5	0.0
-60°	40.2	31.0	21.7	14.2	6.6	3.3	0.0
-62.5°	35.9	27.4	19.4	12.4	6.1	3.0	0.0
-65°	31.5	23.7	17.0	10.6	5.6	2.8	0.0
-67.5°	27.0	20.3	14.6	8.8	5.0	2.5	0.0
-70°	22.4	17.2	12.1	7.0	4.5	2.3	0.0
-72.5°	18.5	14.1	9.6	5.9	4.0	2.0	0.0
-75°	14.8	10.9	7.1	5.1	3.4	1.7	0.0
-77.5°	10.9	7.7	5.7	4.3	2.9	1.4	0.0
-80°	7.1	5.7	4.6	3.4	2.3	1.1	0.0
-82.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
-85°	3.4	2.9	2.3	1.7	1.1	0.6	0.0
-87.5°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)