

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: P731402 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-1S-CV1**

Issue Date: 11/16/2023

Test Information

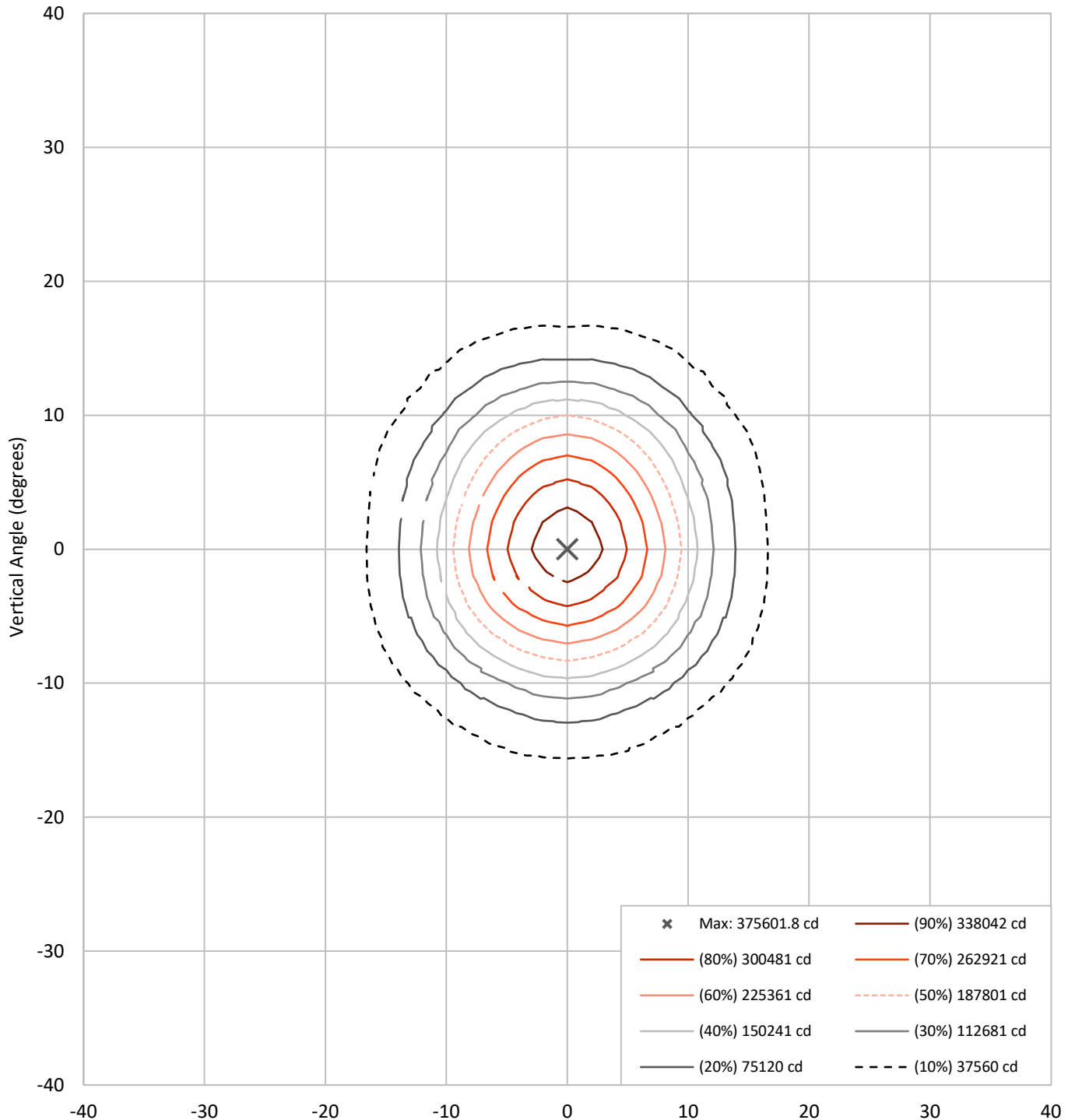
Test Method: LM-79-08
Report Number: P731402 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-1S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	45241.8 lumens	Max Intensity:	375601.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 18.3°V	Field Angle (10%):	33°H x 31.9°V
Beam Lumens:	21108.5 lumens	Field Lumens:	38338.8 lumens
Beam Efficiency:	46.7%	Field Efficiency:	84.7%
Input Watts (W):	343.2		
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





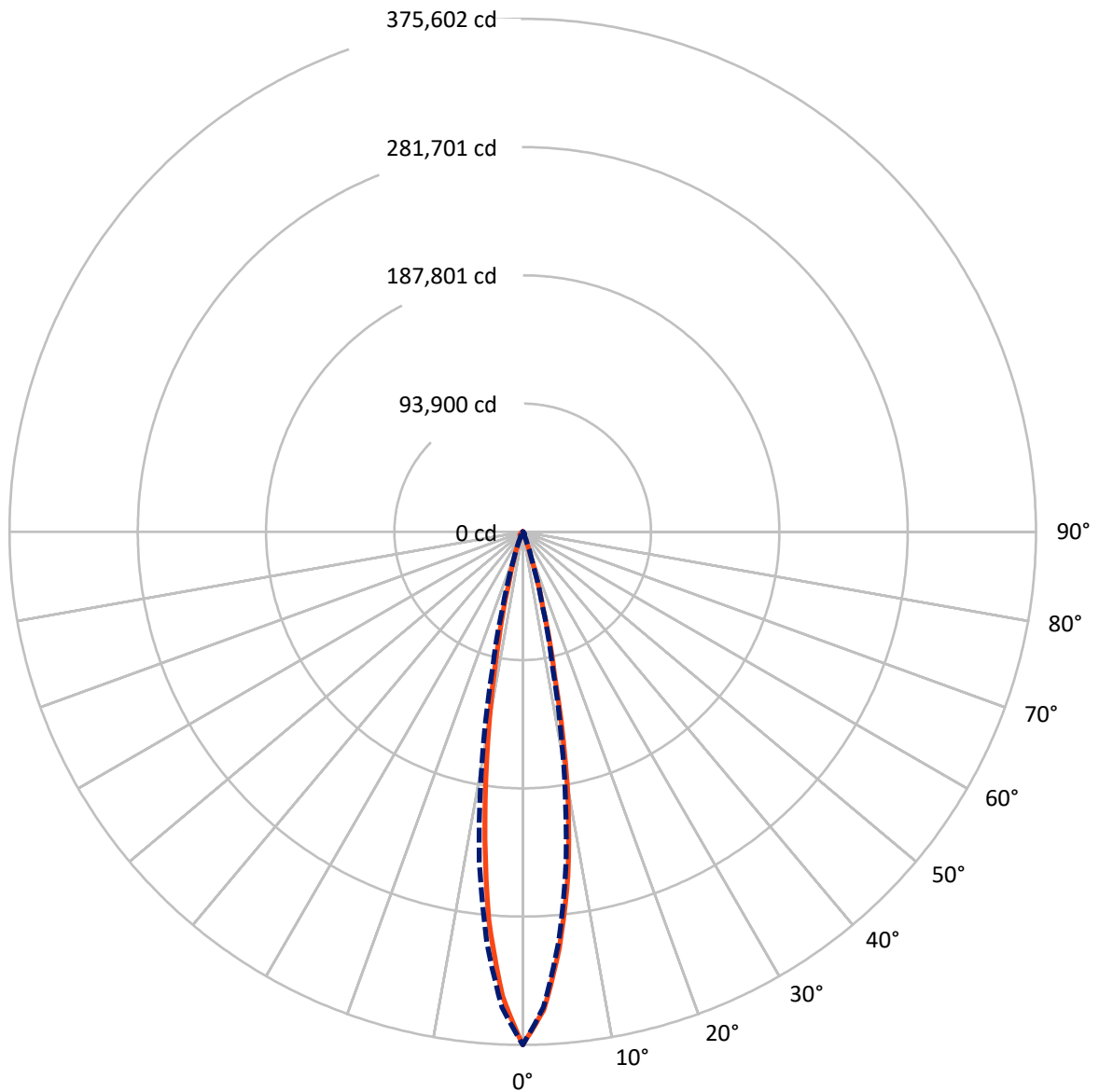
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Lumen Table

90	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1					
80	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1					
70	0.1	0.0	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.0	0.1
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1	
50	0.1	0.1	0.3	0.3	0.3	0.5	0.7	0.6	0.6	0.7	0.5	0.3	0.3	0.3	0.1	0.1
40		0.2	0.5	1.2	2.5	3.6	5.1	6.3	6.3	5.1	3.6	2.5	1.2	0.5	0.2	
30	0.2	0.3	2.5	7.8	18.5	25.1	40.2	71.7	71.7	40.2	25.1	18.5	7.8	2.5	0.3	0.2
20		0.8	5.3	22.6	45.4	60.2	440.0	1773.2	1773.2	440.0	60.2	45.4	22.6	5.3	0.8	
10	0.2	1.2	6.7	30.4	50.6	110.6	1648.5	7119.2	7119.2	1648.5	110.6	50.6	30.4	6.7	1.2	0.2
0		1.5	7.1	29.9	50.5	107.3	1577.1	6595.0	6595.0	1577.1	107.3	50.5	29.9	7.1	1.5	
-10	0.3	1.8	6.8	24.0	46.5	58.8	351.2	1316.7	1316.7	351.2	58.8	46.5	24.0	6.8	1.8	0.3
-20		1.8	6.7	16.6	46.1	57.8	65.5	113.0	113.0	65.5	57.8	46.1	16.6	6.7	1.8	
-30	0.3	1.6	6.1	11.7	32.7	67.8	79.4	81.8	81.8	79.4	67.8	32.7	11.7	6.1	1.6	0.3
-40		1.1	4.6	10.3	17.3	31.2	56.6	76.7	76.7	56.6	31.2	17.3	10.3	4.6	1.1	
-50	0.2	0.6	2.7	6.9	13.3	19.3	24.3	27.3	27.3	24.3	19.3	13.3	6.9	2.7	0.6	0.2
-60		0.3	0.9	2.7	5.7	9.3	12.9	15.0	15.0	12.9	9.3	5.7	2.7	0.9	0.3	
-70	0.1	0.7	2.0	4.7	6.4	4.7	2.0	0.7	0.1							0.1
-80		0.1	0.7	2.0	4.7	6.4	4.7	2.0	0.7	0.1						
-90	0.1	0.7	2.0	4.7	6.4	4.7	2.0	0.7	0.1							0.1

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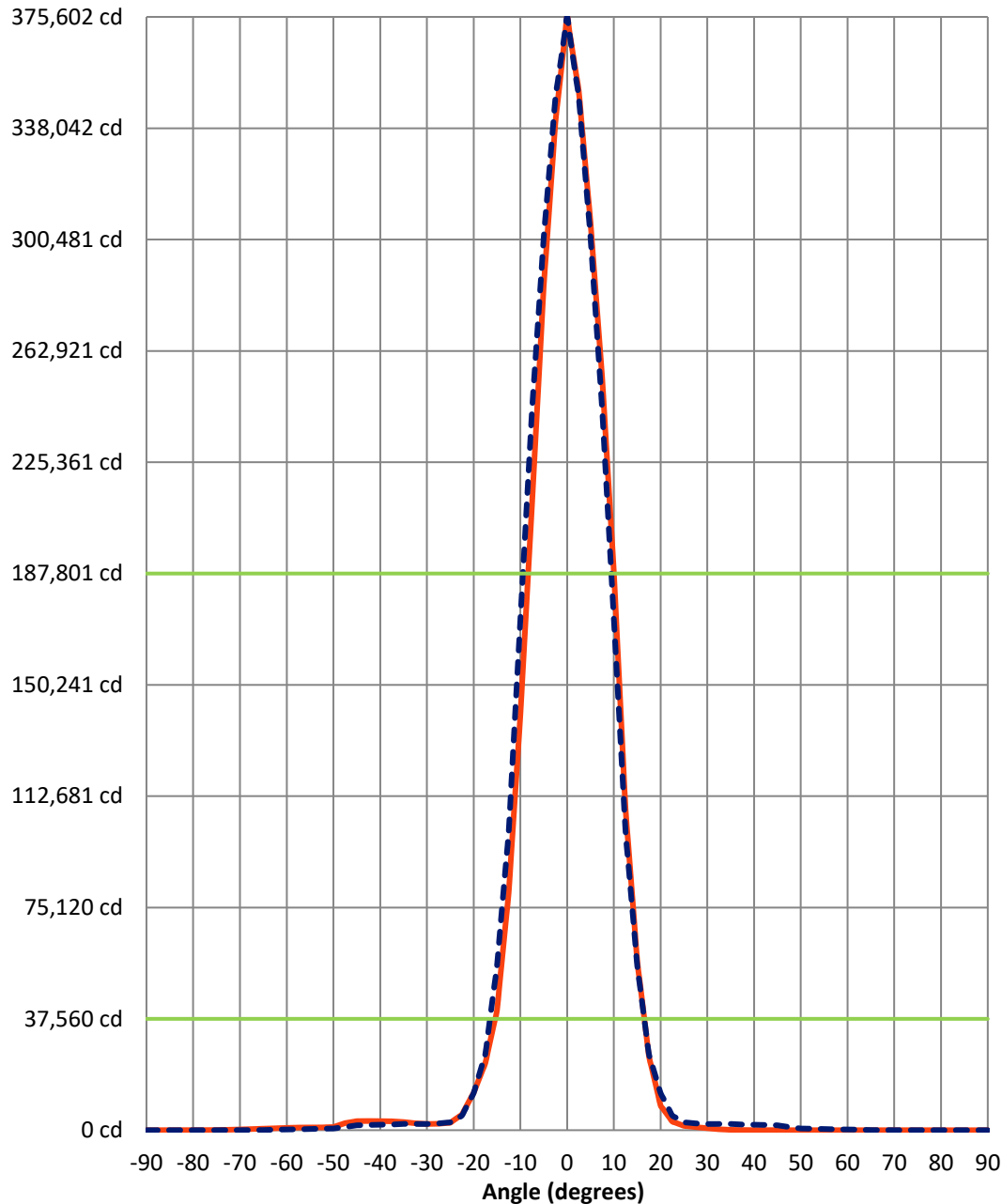
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 18.9°
V Angle: 18.3°
Lumens: 21108.5
Efficiency: 46.7%

Field:
H Angle: 33°
V Angle: 31.9°
Lumens: 38338.8
Efficiency: 84.7%

Spill:
Lumens: 6903
Efficiency: 15.3%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	2.7	2.7	2.7	3.2	3.6	4.1	4.5	5.0	5.4	5.9	6.3
87.5°	2.7	2.7	2.7	2.5	2.3	2.2	2.0	2.0	2.0	1.9	1.8
85°	2.7	2.7	2.7	2.5	2.4	2.3	2.3	2.2	2.1	2.0	1.8
82.5°	2.7	2.8	2.7	2.6	2.5	2.5	2.5	2.4	2.3	2.2	2.1
80°	2.7	2.8	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.5	2.4
77.5°	2.7	2.8	2.7	2.6	2.6	2.8	3.0	3.0	2.9	2.9	2.7
75°	2.7	2.8	2.7	2.7	2.7	3.0	3.2	3.2	3.2	3.0	2.8
72.5°	2.7	2.8	2.7	2.7	2.9	3.1	3.4	3.4	3.2	3.0	2.8
70°	2.7	2.9	2.7	2.7	3.0	3.3	3.6	3.5	3.3	3.0	3.1
67.5°	2.7	2.9	2.8	2.8	3.2	3.5	3.6	3.5	3.3	3.4	3.5
65°	2.7	2.9	2.8	2.9	3.3	3.6	3.7	3.5	3.6	3.7	3.8
62.5°	2.7	2.9	2.8	3.0	3.5	3.7	3.7	3.7	3.9	4.1	3.9
60°	2.7	3.0	2.8	3.1	3.6	3.8	3.8	4.0	4.2	4.3	4.1
57.5°	2.7	3.0	2.9	3.2	3.7	3.9	4.0	4.3	4.5	4.5	4.5
55°	2.7	3.0	3.0	3.3	3.8	4.0	4.2	4.5	4.8	4.8	4.9
52.5°	2.7	3.0	3.1	3.4	3.9	4.1	4.4	4.8	5.0	5.2	5.3
50°	2.7	3.1	3.2	3.5	4.0	4.3	4.7	5.1	5.4	5.6	6.2
47.5°	2.7	3.1	3.3	3.6	4.1	4.4	4.9	5.4	5.7	5.9	7.0
45°	2.7	3.1	3.3	3.7	4.2	4.6	5.2	5.7	6.0	6.6	7.8
42.5°	2.7	3.1	3.4	3.8	4.3	4.8	5.5	6.1	6.4	7.3	9.2
40°	2.7	3.2	3.5	3.9	4.4	5.0	5.8	6.3	6.8	7.9	10.6
37.5°	2.7	3.2	3.6	4.0	4.5	5.1	6.1	6.6	7.4	8.7	11.9
35°	2.7	3.2	3.7	4.1	4.7	5.3	6.4	6.9	8.0	10.0	13.0
32.5°	2.7	3.3	3.7	4.2	4.8	5.6	6.7	7.2	8.6	11.3	14.1
30°	2.7	3.3	3.8	4.4	4.9	5.8	6.9	7.5	9.2	12.4	15.4
27.5°	2.7	3.3	3.9	4.5	5.1	6.1	7.1	8.0	10.0	13.5	16.9
25°	2.7	3.3	3.9	4.6	5.2	6.3	7.4	8.5	10.9	14.7	18.6
22.5°	2.7	3.4	4.0	4.7	5.3	6.5	7.6	9.0	11.8	16.0	21.2
20°	2.7	3.4	4.1	4.8	5.5	6.7	7.8	9.5	12.6	17.4	24.0
17.5°	2.7	3.4	4.1	4.9	5.6	6.8	8.0	9.9	13.3	18.8	27.0
15°	2.7	3.5	4.2	5.0	5.7	6.9	8.1	10.3	14.0	20.2	30.0
12.5°	2.7	3.5	4.3	5.0	5.8	7.0	8.3	10.6	14.7	21.7	33.2
10°	2.7	3.5	4.3	5.1	5.9	7.1	8.5	10.9	15.3	23.0	36.3
7.5°	2.7	3.5	4.4	5.2	6.0	7.1	8.7	11.2	15.9	24.3	39.3
5°	2.7	3.6	4.4	5.3	6.1	7.2	8.8	11.4	16.4	25.4	42.2
2.5°	2.7	3.6	4.5	5.3	6.2	7.2	9.0	11.6	16.8	26.4	44.8
0°	2.7	3.6	4.5	5.4	6.3	7.2	9.1	11.8	17.2	27.2	47.1
-2.5°	2.7	3.6	4.5	5.5	6.5	7.6	9.9	14.1	22.1	35.9	60.6
-5°	2.7	3.6	4.6	5.5	6.6	8.0	10.7	16.2	26.8	44.2	73.4
-7.5°	2.7	3.7	4.6	5.6	6.8	8.4	11.5	18.2	31.1	52.0	85.3
-10°	2.7	3.7	4.6	5.6	6.9	8.7	12.2	20.0	35.0	59.0	96.0
-12.5°	2.7	3.7	4.7	5.6	7.0	9.0	12.8	21.6	38.4	65.1	104.9
-15°	2.7	3.7	4.7	5.7	7.1	9.3	13.3	22.8	41.6	70.6	112.3
-17.5°	2.7	3.7	4.7	5.7	7.2	9.5	13.7	24.2	44.7	75.1	117.9
-20°	2.7	3.7	4.7	5.7	7.2	9.7	14.1	25.6	47.0	78.5	121.8



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.7	3.7	4.7	5.7	7.3	9.8	14.6	26.3	48.4	80.7	123.8
-25°	2.7	3.7	4.7	5.7	7.3	9.9	14.8	26.5	48.9	81.6	123.7
-27.5°	2.7	3.7	4.7	5.7	7.2	9.9	14.8	26.0	48.3	81.5	124.3
-30°	2.7	3.7	4.7	5.7	7.2	9.9	14.5	24.7	47.4	80.7	123.3
-32.5°	2.7	3.7	4.7	5.7	7.2	9.8	13.9	24.1	46.0	78.5	120.5
-35°	2.7	3.6	4.7	5.7	7.1	9.7	13.5	23.3	43.5	74.8	115.8
-37.5°	2.7	3.6	4.7	5.7	7.1	9.5	13.4	22.1	40.0	69.6	108.5
-40°	2.7	3.6	4.7	5.6	7.0	9.4	13.1	20.5	35.3	64.2	99.9
-42.5°	2.7	3.6	4.6	5.6	6.9	9.3	12.7	18.3	31.9	57.2	89.8
-45°	2.7	3.6	4.6	5.6	6.9	9.1	12.2	16.6	28.9	49.1	78.4
-47.5°	2.7	3.5	4.6	5.6	6.8	8.8	11.7	15.9	25.2	40.0	68.0
-50°	2.7	3.5	4.5	5.5	6.8	8.6	11.3	15.1	20.9	35.0	56.5
-52.5°	2.7	3.5	4.5	5.5	6.7	8.2	10.8	14.2	18.7	29.4	44.4
-55°	2.7	3.4	4.5	5.4	6.6	8.1	10.3	13.2	17.5	23.2	37.3
-57.5°	2.7	3.4	4.4	5.3	6.5	7.9	9.8	12.5	16.1	20.5	29.6
-60°	2.7	3.3	4.4	5.2	6.4	7.7	9.2	11.8	14.7	18.8	23.3
-62.5°	2.7	3.3	4.3	5.1	6.2	7.5	9.0	11.0	13.8	16.8	21.1
-65°	2.7	3.3	4.1	5.0	6.0	7.3	8.7	10.4	12.9	15.6	18.7
-67.5°	2.7	3.2	4.0	4.9	5.8	7.0	8.4	9.9	12.0	14.5	17.1
-70°	2.7	3.2	3.9	4.7	5.5	6.6	8.0	9.5	11.3	13.4	15.8
-72.5°	2.7	3.1	3.8	4.5	5.3	6.2	7.4	9.0	10.6	12.5	14.6
-75°	2.7	3.0	3.6	4.3	5.0	5.8	6.8	8.3	9.9	11.5	13.3
-77.5°	2.7	3.0	3.5	4.1	4.7	5.3	6.1	7.5	9.0	10.5	12.0
-80°	2.7	2.9	3.3	4.0	4.5	5.0	5.5	6.8	8.1	9.5	10.8
-82.5°	2.7	2.9	3.2	3.8	4.3	4.8	5.2	6.1	7.3	8.5	9.7
-85°	2.7	2.8	3.0	3.6	4.1	4.5	5.0	5.8	6.6	7.6	8.6
-87.5°	2.7	2.8	2.9	3.4	3.8	4.3	4.7	5.4	6.0	6.7	7.5
-90°	2.7	2.7	2.7	2.5	2.3	2.0	1.8	1.8	1.8	1.8	1.8



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.3	6.3	6.3	6.3	6.5	6.8	7.0	7.2	7.5	7.7	8.0
87.5°	1.7	1.6	1.5	1.4	1.3	1.2	1.1	0.9	0.9	0.9	0.9
85°	1.8	1.8	1.8	1.8	1.6	1.5	1.4	1.3	1.2	1.1	1.0
82.5°	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.6	1.5	1.4
80°	2.4	2.3	2.2	2.1	2.1	2.1	2.0	1.8	1.8	1.9	2.0
77.5°	2.6	2.5	2.5	2.6	2.5	2.4	2.3	2.3	2.4	2.5	2.7
75°	2.7	2.7	2.8	2.7	2.6	2.6	2.7	2.9	3.0	3.0	2.9
72.5°	2.8	3.0	2.9	2.8	2.9	3.1	3.3	3.5	3.9	4.4	4.9
70°	3.2	3.3	3.2	3.2	3.4	3.8	4.6	5.6	6.6	7.7	9.4
67.5°	3.5	3.4	3.5	3.7	4.3	5.2	6.3	9.9	14.1	15.9	16.5
65°	3.6	3.6	3.9	4.6	5.3	8.2	12.2	17.1	21.8	22.3	21.5
62.5°	3.6	4.0	4.6	5.9	8.6	12.4	16.8	21.4	26.7	26.9	23.6
60°	4.0	4.4	5.8	8.4	11.6	15.0	19.8	23.5	27.9	29.9	22.9
57.5°	4.5	5.3	7.6	10.6	13.8	16.4	19.0	22.9	25.2	25.6	18.9
55°	5.2	6.4	9.3	12.9	15.2	14.6	16.7	18.8	19.8	18.4	13.1
52.5°	6.3	7.7	11.4	14.4	14.9	13.7	13.7	14.7	13.7	11.8	10.3
50°	7.3	10.0	13.4	15.3	14.9	13.0	11.1	10.9	10.5	9.8	8.9
47.5°	9.0	12.2	15.0	16.2	14.3	12.4	10.0	9.7	9.7	9.3	8.5
45°	10.8	13.8	16.8	15.7	14.0	12.1	11.2	10.0	10.0	10.1	10.6
42.5°	12.5	15.2	16.7	15.3	14.1	13.6	13.4	11.9	11.9	14.3	15.2
40°	13.7	16.4	16.7	16.4	15.2	16.4	16.8	17.0	17.7	20.3	21.6
37.5°	14.6	16.8	17.8	19.6	18.3	20.3	21.3	31.2	32.4	27.4	37.6
35°	15.4	17.6	22.2	27.1	28.7	25.5	38.5	52.1	56.8	53.7	65.3
32.5°	16.2	18.8	28.1	39.9	50.6	47.9	60.5	84.1	99.1	106.7	115.9
30°	17.8	24.3	37.3	56.1	83.9	100.6	101.6	126.6	154.2	203.2	247.5
27.5°	20.6	31.5	52.9	86.9	129.8	164.7	171.2	187.3	250.5	343.3	460.2
25°	23.9	49.0	70.8	128.8	192.0	231.2	242.6	270.0	379.7	592.6	708.0
22.5°	32.7	72.4	101.0	177.5	261.7	295.6	319.4	419.0	617.1	898.4	985.1
20°	49.5	99.3	138.7	219.4	332.1	359.1	395.0	608.7	926.2	1160.5	1278.3
17.5°	69.3	126.6	176.3	260.8	359.9	410.0	485.8	825.8	1245.4	1413.7	1536.3
15°	91.4	153.8	208.9	297.2	384.6	443.8	628.1	1078.2	1515.5	1654.8	1774.7
12.5°	115.1	180.9	237.0	328.9	408.9	475.2	757.6	1255.7	1645.4	1842.3	1996.8
10°	139.5	207.4	261.1	355.9	432.5	504.1	878.9	1407.8	1711.0	1874.1	2044.6
7.5°	154.6	224.3	279.6	378.7	455.0	530.4	988.8	1534.3	1756.2	1883.9	2010.3
5°	166.0	230.1	284.3	388.9	471.8	549.7	1071.6	1635.0	1784.9	1876.4	1950.6
2.5°	174.6	234.1	287.4	394.5	484.4	559.5	1079.5	1650.8	1776.1	1862.1	1913.3
0°	180.3	236.4	289.0	396.8	494.6	566.2	1063.6	1642.4	1756.6	1845.4	1905.2
-2.5°	186.7	243.3	302.0	403.8	495.5	566.4	1048.4	1626.1	1776.0	1895.2	1994.5
-5°	190.5	248.8	313.1	408.1	493.9	564.2	1014.3	1584.4	1773.6	1899.1	2020.8
-7.5°	192.3	253.1	321.8	409.4	486.8	553.3	956.3	1484.9	1698.9	1816.4	1967.0
-10°	192.9	258.5	325.8	403.0	473.1	536.4	879.0	1369.8	1621.8	1729.3	1887.7
-12.5°	194.7	265.1	328.3	396.6	459.1	517.7	784.5	1243.8	1544.2	1638.7	1800.0
-15°	194.7	270.3	330.2	391.1	445.5	497.3	673.6	1110.5	1501.8	1655.3	1787.9
-17.5°	193.1	274.3	331.5	387.3	433.0	475.5	551.0	991.5	1475.0	1691.0	1821.8
-20°	190.0	277.1	332.7	385.7	422.5	465.4	525.4	858.8	1338.9	1707.2	1866.9



REPORT NUMBER: P731402 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	185.6	278.7	333.8	384.5	425.9	466.5	517.0	708.5	1149.8	1705.2	1868.2
-25°	183.4	270.8	333.6	384.3	431.0	468.6	507.0	565.5	946.7	1462.5	1818.7
-27.5°	182.6	261.9	327.9	380.5	435.6	471.9	505.2	552.6	752.3	1172.0	1717.3
-30°	179.1	247.1	319.6	373.0	431.0	475.8	508.5	538.6	593.6	921.6	1375.4
-32.5°	170.8	231.6	303.8	361.9	420.0	479.4	509.7	535.6	576.2	673.2	1041.9
-35°	161.2	219.3	285.1	347.8	404.6	467.1	507.8	535.0	561.6	608.6	775.7
-37.5°	152.5	205.2	266.0	329.3	386.3	444.9	503.5	532.2	559.0	592.6	656.2
-40°	142.1	189.3	248.0	308.1	365.1	421.6	478.3	528.2	555.2	598.8	640.8
-42.5°	130.1	175.9	228.7	286.4	341.0	396.4	451.9	505.3	561.2	605.0	647.0
-45°	117.0	160.7	208.1	260.6	314.3	368.3	422.2	477.7	545.2	611.9	654.0
-47.5°	102.1	143.7	188.7	232.2	283.8	336.8	389.6	447.8	514.7	584.3	659.4
-50°	86.2	124.7	165.9	205.7	249.6	301.2	353.1	411.6	474.4	541.9	612.7
-52.5°	71.7	103.7	140.8	179.3	217.6	260.6	312.6	368.2	427.0	490.4	552.2
-55°	56.0	84.2	113.7	149.9	187.5	223.9	266.2	318.3	372.6	430.0	485.7
-57.5°	44.1	64.0	88.9	117.7	153.0	189.9	226.3	265.6	313.7	364.4	410.9
-60°	34.5	47.5	65.6	89.2	115.3	149.2	185.2	220.8	258.0	295.0	335.1
-62.5°	25.6	35.6	47.2	62.5	84.4	107.5	137.5	170.7	205.3	236.0	265.1
-65°	22.7	25.7	33.6	44.3	55.1	74.1	95.3	117.5	146.3	173.4	199.8
-67.5°	19.6	22.5	25.1	29.1	38.5	48.1	57.4	75.8	95.1	112.4	130.9
-70°	17.8	19.4	21.7	23.9	26.1	30.1	38.4	46.5	54.2	63.6	78.1
-72.5°	16.1	17.4	18.8	20.4	22.3	24.2	26.1	28.1	33.0	39.3	45.1
-75°	14.5	15.3	16.3	17.6	18.9	20.2	21.6	23.2	24.9	26.7	28.6
-77.5°	12.9	13.5	14.2	14.9	15.7	16.9	18.0	19.1	20.1	21.1	22.1
-80°	11.4	11.8	12.3	12.8	13.4	14.1	14.7	15.5	16.2	17.0	17.8
-82.5°	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.3	12.8	13.3	13.7
-85°	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.2	10.4	10.5	10.7
-87.5°	7.6	7.7	7.8	7.9	8.1	8.3	8.4	8.5	8.7	8.8	8.9
-90°	1.6	1.4	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.2	8.4	8.7	8.9	9.1	9.3	9.6	9.8	10.0	10.0	10.0
87.5°	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.7	0.4
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	1.3	1.3	1.2	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	2.0	1.9	1.8	1.6	1.5	1.4	1.3	1.1	0.9	0.9	0.9
77.5°	2.7	2.5	2.3	2.1	1.8	1.7	1.7	1.6	1.6	1.7	1.7
75°	2.8	2.7	2.8	2.8	2.7	2.6	2.4	2.2	1.9	1.8	1.8
72.5°	5.4	5.5	5.5	5.3	4.9	4.5	4.4	4.2	4.0	3.9	3.8
70°	10.2	10.4	9.9	9.0	7.7	6.7	6.4	5.9	5.4	5.3	5.6
67.5°	15.7	14.3	13.1	11.6	9.7	8.5	8.0	7.5	6.9	6.7	6.7
65°	19.3	15.2	13.0	11.5	10.6	9.5	8.5	7.5	6.5	5.8	5.6
62.5°	19.1	13.3	10.8	9.6	8.7	8.0	7.0	6.1	5.3	4.8	4.7
60°	16.6	11.1	8.3	7.4	6.8	6.3	5.8	5.2	4.8	4.5	4.5
57.5°	13.0	8.6	6.3	6.2	5.9	5.6	5.3	5.0	4.7	4.5	4.7
55°	9.4	7.5	6.4	6.2	6.0	5.7	5.3	5.3	5.2	5.1	5.4
52.5°	8.2	7.4	7.1	6.9	6.5	6.3	6.2	6.2	6.3	6.5	6.6
50°	8.1	7.7	7.5	7.1	7.1	7.1	7.1	7.4	7.7	7.8	7.9
47.5°	8.4	8.3	8.5	8.0	8.3	8.8	8.9	9.2	9.8	10.0	9.9
45°	9.9	11.2	11.5	11.5	11.2	14.6	15.2	14.0	19.2	18.4	14.3
42.5°	15.2	16.8	17.9	21.1	25.9	29.1	37.6	51.6	46.2	34.8	22.5
40°	26.1	25.6	30.5	36.5	40.1	46.7	57.1	70.5	65.0	55.2	59.0
37.5°	45.9	46.5	48.1	56.0	58.9	51.6	66.8	65.7	55.7	71.2	73.1
35°	84.2	93.1	79.1	96.3	100.3	94.1	99.7	110.3	95.4	115.4	121.9
32.5°	151.5	166.9	167.5	171.5	185.8	199.5	203.4	232.0	241.3	265.4	291.3
30°	241.9	270.4	294.6	301.2	320.3	354.2	382.3	437.4	496.4	540.7	598.9
27.5°	436.0	410.2	464.2	530.0	509.0	558.4	659.6	739.1	856.7	941.3	987.0
25°	705.2	663.3	761.7	861.9	862.2	870.6	1016.9	1144.5	1240.7	1317.0	1384.0
22.5°	1022.9	1075.2	1163.4	1279.8	1219.2	1274.5	1419.7	1523.4	1658.2	1790.3	2186.1
20°	1379.0	1484.7	1557.3	1540.0	1537.3	1631.3	1759.1	1959.1	2366.9	3804.2	5176.7
17.5°	1692.7	1821.2	1814.8	1741.7	1776.4	1934.2	2166.2	2942.6	5002.3	9670.4	14039.2
15°	1936.1	1993.3	1955.6	1911.9	1989.4	2225.8	2806.0	5316.6	11567.1	19042.5	27575.2
12.5°	2098.6	2076.1	1977.3	1984.5	2168.6	2500.7	4472.6	10348.7	19386.6	30002.8	51455.4
10°	2161.5	2099.9	2013.5	2093.5	2344.6	3144.0	6015.7	14368.8	28033.0	50104.4	79019.8
7.5°	2118.7	2066.2	2041.9	2183.2	2517.4	4163.8	9351.1	20323.5	40182.7	68645.5	109336.7
5°	2091.0	2056.0	2061.2	2242.1	2626.7	4913.7	11708.4	24069.6	49842.9	86575.8	138343.8
2.5°	2089.4	2068.5	2077.7	2283.0	2688.3	5297.5	13036.3	24693.5	53236.2	96328.8	162078.4
0°	2111.7	2098.1	2090.0	2291.1	2658.9	4921.9	12507.2	25695.7	55564.1	100729.1	172389.7
-2.5°	2216.0	2104.8	2100.2	2290.6	2691.4	5201.3	12816.9	25349.6	54723.9	96662.2	161328.4
-5°	2191.1	2065.3	2045.3	2205.2	2579.3	4683.8	11220.8	23411.0	48069.2	82192.4	132972.4
-7.5°	2092.1	2008.0	1972.4	2099.7	2425.0	3931.3	8701.9	18483.2	36197.0	61953.5	95820.6
-10°	2011.6	1956.1	1903.4	1991.5	2238.8	3004.4	5547.4	12399.9	24621.5	42129.7	61524.7
-12.5°	1969.3	1943.0	1848.0	1872.6	2045.3	2384.9	3881.6	8381.5	15419.3	22876.9	37371.1
-15°	1939.3	1919.4	1830.4	1824.5	1921.0	2121.7	2557.1	4347.5	8622.6	13991.4	19744.6
-17.5°	1912.2	1904.9	1857.8	1806.5	1818.6	1935.0	2174.7	2810.4	4409.6	7822.2	11540.8
-20°	1925.3	1929.5	1893.5	1840.0	1820.9	1836.0	1960.5	2179.5	2584.6	3964.3	5648.9



REPORT NUMBER: P731402 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1921.1	1933.4	1923.8	1927.6	1904.6	1869.6	1845.0	1940.6	2093.9	2339.2	2962.3
-25°	1920.7	1937.7	2009.6	2101.7	2092.1	2008.5	1921.0	1845.3	1933.0	2039.0	2193.6
-27.5°	1892.3	2002.3	2181.4	2317.2	2356.1	2264.6	2142.1	2014.8	2000.8	1997.4	2056.9
-30°	1883.0	2119.3	2330.5	2524.2	2551.4	2505.2	2448.6	2357.8	2260.4	2206.5	2177.7
-32.5°	1598.8	2170.9	2429.2	2603.4	2646.5	2644.4	2657.2	2614.1	2583.7	2548.9	2499.6
-35°	1213.8	1814.2	2446.7	2527.0	2597.1	2659.7	2743.4	2764.8	2781.6	2800.9	2818.2
-37.5°	847.6	1315.6	1841.1	2299.7	2445.4	2554.1	2702.4	2811.2	2901.7	2946.6	3000.5
-40°	702.2	831.5	1238.6	1626.2	2008.0	2360.2	2519.9	2705.3	2878.7	2975.0	3063.1
-42.5°	687.7	733.8	782.7	1053.0	1376.2	1708.5	2035.1	2331.2	2646.6	2856.9	3011.6
-45°	692.4	715.6	744.2	791.7	842.3	1096.0	1369.6	1648.9	1993.6	2330.4	2624.3
-47.5°	691.8	713.0	735.6	758.6	788.8	836.1	884.7	963.8	1208.2	1466.7	1716.8
-50°	667.8	710.9	732.0	753.5	775.5	798.9	823.4	858.1	899.5	938.2	969.6
-52.5°	607.4	658.1	707.0	747.9	768.1	788.6	810.4	839.3	866.4	891.9	905.1
-55°	538.9	589.5	639.0	682.9	724.4	764.4	801.5	827.9	855.0	882.6	893.9
-57.5°	460.3	511.4	560.5	601.5	642.8	684.3	722.7	759.5	796.3	831.2	850.6
-60°	376.7	419.3	463.2	505.3	545.5	583.7	619.5	654.4	687.9	717.1	735.6
-62.5°	294.4	328.0	365.1	401.6	436.9	471.1	504.1	535.5	565.2	590.2	607.5
-65°	225.4	250.4	276.0	302.3	329.2	358.6	386.2	412.5	437.0	457.3	472.5
-67.5°	153.1	174.8	195.4	215.0	234.7	255.4	276.4	296.2	314.6	329.5	341.3
-70°	92.0	105.6	118.7	132.7	148.5	163.6	178.5	192.5	205.6	215.9	223.6
-72.5°	50.2	55.1	61.6	72.3	82.3	91.5	99.9	107.6	114.4	120.1	124.8
-75°	30.5	33.0	37.0	40.8	44.5	48.0	51.3	54.4	57.2	59.6	61.5
-77.5°	23.3	24.7	26.0	27.2	28.3	29.5	30.7	31.8	32.8	33.7	34.5
-80°	18.6	19.4	20.1	20.8	21.5	22.2	23.0	23.8	24.5	25.0	25.4
-82.5°	14.2	15.0	15.6	16.2	16.8	17.2	17.6	18.0	18.4	18.8	19.2
-85°	10.8	11.3	11.8	12.4	12.9	13.1	13.2	13.3	13.4	13.7	14.0
-87.5°	8.9	9.2	9.4	9.7	9.9	10.2	10.4	10.6	10.9	11.1	11.3
-90°	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8
87.5°	0.2	0.0	0.4	0.9	0.4	0.0	0.2	0.4	0.7	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.6
75°	1.8	1.8	2.2	2.7	2.2	1.8	1.8	1.8	1.8	1.9	2.2
72.5°	3.7	3.6	3.6	3.6	3.6	3.6	3.7	3.8	3.9	4.0	4.2
70°	5.9	6.2	6.3	6.3	6.3	6.2	5.9	5.6	5.3	5.4	5.9
67.5°	6.5	6.3	5.5	4.5	5.5	6.3	6.5	6.7	6.7	6.9	7.5
65°	5.5	5.4	5.0	4.5	5.0	5.4	5.5	5.6	5.8	6.5	7.5
62.5°	4.6	4.5	4.5	4.5	4.5	4.5	4.6	4.7	4.8	5.3	6.1
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.8	5.2
57.5°	5.0	5.3	5.4	5.4	5.4	5.3	5.0	4.7	4.5	4.7	5.0
55°	5.8	6.1	6.3	6.3	6.3	6.1	5.8	5.4	5.1	5.2	5.3
52.5°	6.6	6.4	6.6	7.2	6.6	6.4	6.6	6.6	6.5	6.3	6.2
50°	8.0	8.1	8.2	8.2	8.2	8.1	8.0	7.9	7.8	7.7	7.4
47.5°	10.1	10.0	10.0	10.0	10.0	10.0	10.1	9.9	10.0	9.8	9.2
45°	14.8	15.1	15.5	16.3	15.5	15.1	14.8	14.3	18.4	19.2	14.0
42.5°	23.5	24.0	24.3	24.5	24.3	24.0	23.5	22.5	34.8	46.2	51.6
40°	55.9	44.5	33.3	33.5	33.3	44.5	55.9	59.0	55.2	65.0	70.5
37.5°	64.2	58.4	56.1	55.3	56.1	58.4	64.2	73.1	71.2	55.7	65.7
35°	121.7	123.8	121.0	122.3	121.0	123.8	121.7	121.9	115.4	95.4	110.3
32.5°	299.6	311.8	307.5	308.9	307.5	311.8	299.6	291.3	265.4	241.3	232.0
30°	622.4	659.8	668.3	665.9	668.3	659.8	622.4	598.9	540.7	496.4	437.4
27.5°	1005.4	1035.1	1041.1	1035.5	1041.1	1035.1	1005.4	987.0	941.3	856.7	739.1
25°	1421.1	1449.3	1465.3	1457.6	1465.3	1449.3	1421.1	1384.0	1317.0	1240.7	1144.5
22.5°	2644.5	2772.8	2835.4	2920.7	2835.4	2772.8	2644.5	2186.1	1790.3	1658.2	1523.4
20°	7799.0	8685.5	8517.5	8334.5	8517.5	8685.5	7799.0	5176.7	3804.2	2366.9	1959.1
17.5°	19467.3	23826.3	25902.0	25057.0	25902.0	23826.3	19467.3	14039.2	9670.4	5002.3	2942.6
15°	39816.3	51995.5	59116.6	57215.6	59116.6	51995.5	39816.3	27575.2	19042.5	11567.1	5316.6
12.5°	72127.5	91483.9	106312.7	108435.4	106312.7	91483.9	72127.5	51455.4	30002.8	19386.6	10348.7
10°	113431.9	149200.7	178677.9	188302.3	178677.9	149200.7	113431.9	79019.8	50104.4	28033.0	14368.8
7.5°	162664.7	210413.7	244409.1	253858.4	244409.1	210413.7	162664.7	109336.7	68645.5	40182.7	20323.5
5°	202150.0	257102.7	294748.8	306312.0	294748.8	257102.7	202150.0	138343.8	86575.8	49842.9	24069.6
2.5°	231725.7	289365.9	331345.4	350527.1	331345.4	289365.9	231725.7	162078.4	96328.8	53236.2	24693.5
0°	243182.9	301267.8	348341.5	375601.8	348341.5	301267.8	243182.9	172389.7	100729.1	55564.1	25695.7
-2.5°	231975.2	285977.9	322227.8	340103.5	322227.8	285977.9	231975.2	161328.4	96662.2	54723.9	25349.6
-5°	193126.9	240912.0	272172.7	284792.6	272172.7	240912.0	193126.9	132972.4	82192.4	48069.2	23411.0
-7.5°	138380.1	177606.0	200907.3	211540.7	200907.3	177606.0	138380.1	95820.6	61953.5	36197.0	18483.2
-10°	89904.2	111616.3	135110.3	140138.7	135110.3	111616.3	89904.2	61524.7	42129.7	24621.5	12399.9
-12.5°	50649.8	64350.5	76027.0	80241.1	76027.0	64350.5	50649.8	37371.1	22876.9	15419.3	8381.5
-15°	27403.2	35209.3	39415.2	40449.6	39415.2	35209.3	27403.2	19744.6	13991.4	8622.6	4347.5
-17.5°	15733.1	19482.9	21628.6	22613.7	21628.6	19482.9	15733.1	11540.8	7822.2	4409.6	2810.4
-20°	8407.3	10523.2	11731.3	12620.5	11731.3	10523.2	8407.3	5648.9	3964.3	2584.6	2179.5



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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°	3861.6	4513.8	4882.3	5298.8	4882.3	4513.8	3861.6	2962.3	2339.2	2093.9	1940.6
-25°	2327.9	2415.7	2468.6	2511.2	2468.6	2415.7	2327.9	2193.6	2039.0	1933.0	1845.3
-27.5°	2108.0	2136.7	2153.3	2170.6	2153.3	2136.7	2108.0	2056.9	1997.4	2000.8	2014.8
-30°	2152.9	2123.8	2113.8	2102.7	2113.8	2123.8	2152.9	2177.7	2206.5	2260.4	2357.8
-32.5°	2450.1	2393.5	2363.2	2334.6	2363.2	2393.5	2450.1	2499.6	2548.9	2583.7	2614.1
-35°	2811.5	2786.1	2772.7	2755.8	2772.7	2786.1	2811.5	2818.2	2800.9	2781.6	2764.8
-37.5°	3009.6	3005.2	3004.4	2995.9	3004.4	3005.2	3009.6	3000.5	2946.6	2901.7	2811.2
-40°	3073.4	3071.6	3067.2	3062.9	3067.2	3071.6	3073.4	3063.1	2975.0	2878.7	2705.3
-42.5°	3052.8	3080.1	3093.3	3093.7	3093.3	3080.1	3052.8	3011.6	2856.9	2646.6	2331.2
-45°	2811.6	2950.9	3032.0	3053.9	3032.0	2950.9	2811.6	2624.3	2330.4	1993.6	1648.9
-47.5°	1939.4	2135.9	2287.3	2382.6	2287.3	2135.9	1939.4	1716.8	1466.7	1208.2	963.8
-50°	996.9	1022.5	1048.3	1073.5	1048.3	1022.5	996.9	969.6	938.2	899.5	858.1
-52.5°	915.7	926.4	933.1	936.7	933.1	926.4	915.7	905.1	891.9	866.4	839.3
-55°	904.1	914.0	918.9	920.4	918.9	914.0	904.1	893.9	882.6	855.0	827.9
-57.5°	867.4	881.2	889.4	893.2	889.4	881.2	867.4	850.6	831.2	796.3	759.5
-60°	751.0	763.2	771.6	776.4	771.6	763.2	751.0	735.6	717.1	687.9	654.4
-62.5°	622.0	633.4	639.8	642.3	639.8	633.4	622.0	607.5	590.2	565.2	535.5
-65°	485.0	494.9	504.9	512.8	504.9	494.9	485.0	472.5	457.3	437.0	412.5
-67.5°	351.3	359.3	368.1	375.1	368.1	359.3	351.3	341.3	329.5	314.6	296.2
-70°	229.7	234.1	241.2	247.3	241.2	234.1	229.7	223.6	215.9	205.6	192.5
-72.5°	128.5	131.3	136.6	141.3	136.6	131.3	128.5	124.8	120.1	114.4	107.6
-75°	63.2	64.5	65.0	65.2	65.0	64.5	63.2	61.5	59.6	57.2	54.4
-77.5°	35.3	36.0	36.2	36.2	36.2	36.0	35.3	34.5	33.7	32.8	31.8
-80°	25.8	26.2	26.7	27.2	26.7	26.2	25.8	25.4	25.0	24.5	23.8
-82.5°	19.5	19.8	19.9	19.9	19.9	19.8	19.5	19.2	18.8	18.4	18.0
-85°	14.2	14.5	14.5	14.5	14.5	14.5	14.2	14.0	13.7	13.4	13.3
-87.5°	11.6	11.8	11.8	11.8	11.8	11.8	11.6	11.3	11.1	10.9	10.6
-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°	9.6	9.3	9.1	8.9	8.7	8.4	8.2	8.0	7.7	7.5	7.2
87.5°	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.3
82.5°	0.9	0.9	0.9	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.8
80°	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.0	1.9	1.8	1.8
77.5°	1.7	1.7	1.8	2.1	2.3	2.5	2.7	2.7	2.5	2.4	2.3
75°	2.4	2.6	2.7	2.8	2.8	2.7	2.8	2.9	3.0	3.0	2.9
72.5°	4.4	4.5	4.9	5.3	5.5	5.5	5.4	4.9	4.4	3.9	3.5
70°	6.4	6.7	7.7	9.0	9.9	10.4	10.2	9.4	7.7	6.6	5.6
67.5°	8.0	8.5	9.7	11.6	13.1	14.3	15.7	16.5	15.9	14.1	9.9
65°	8.5	9.5	10.6	11.5	13.0	15.2	19.3	21.5	22.3	21.8	17.1
62.5°	7.0	8.0	8.7	9.6	10.8	13.3	19.1	23.6	26.9	26.7	21.4
60°	5.8	6.3	6.8	7.4	8.3	11.1	16.6	22.9	29.9	27.9	23.5
57.5°	5.3	5.6	5.9	6.2	6.3	8.6	13.0	18.9	25.6	25.2	22.9
55°	5.3	5.7	6.0	6.2	6.4	7.5	9.4	13.1	18.4	19.8	18.8
52.5°	6.2	6.3	6.5	6.9	7.1	7.4	8.2	10.3	11.8	13.7	14.7
50°	7.1	7.1	7.1	7.1	7.5	7.7	8.1	8.9	9.8	10.5	10.9
47.5°	8.9	8.8	8.3	8.0	8.5	8.3	8.4	8.5	9.3	9.7	9.7
45°	15.2	14.6	11.2	11.5	11.5	11.2	9.9	10.6	10.1	10.0	10.0
42.5°	37.6	29.1	25.9	21.1	17.9	16.8	15.2	15.2	14.3	11.9	11.9
40°	57.1	46.7	40.1	36.5	30.5	25.6	26.1	21.6	20.3	17.7	17.0
37.5°	66.8	51.6	58.9	56.0	48.1	46.5	45.9	37.6	27.4	32.4	31.2
35°	99.7	94.1	100.3	96.3	79.1	93.1	84.2	65.3	53.7	56.8	52.1
32.5°	203.4	199.5	185.8	171.5	167.5	166.9	151.5	115.9	106.7	99.1	84.1
30°	382.3	354.2	320.3	301.2	294.6	270.4	241.9	247.5	203.2	154.2	126.6
27.5°	659.6	558.4	509.0	530.0	464.2	410.2	436.0	460.2	343.3	250.5	187.3
25°	1016.9	870.6	862.2	861.9	761.7	663.3	705.2	708.0	592.6	379.7	270.0
22.5°	1419.7	1274.5	1219.2	1279.8	1163.4	1075.2	1022.9	985.1	898.4	617.1	419.0
20°	1759.1	1631.3	1537.3	1540.0	1557.3	1484.7	1379.0	1278.3	1160.5	926.2	608.7
17.5°	2166.2	1934.2	1776.4	1741.7	1814.8	1821.2	1692.7	1536.3	1413.7	1245.4	825.8
15°	2806.0	2225.8	1989.4	1911.9	1955.6	1993.3	1936.1	1774.7	1654.8	1515.5	1078.2
12.5°	4472.6	2500.7	2168.6	1984.5	1977.3	2076.1	2098.6	1996.8	1842.3	1645.4	1255.7
10°	6015.7	3144.0	2344.6	2093.5	2013.5	2099.9	2161.5	2044.6	1874.1	1711.0	1407.8
7.5°	9351.1	4163.8	2517.4	2183.2	2041.9	2066.2	2118.7	2010.3	1883.9	1756.2	1534.3
5°	11708.4	4913.7	2626.7	2242.1	2061.2	2056.0	2091.0	1950.6	1876.4	1784.9	1635.0
2.5°	13036.3	5297.5	2688.3	2283.0	2077.7	2068.5	2089.4	1913.3	1862.1	1776.1	1650.8
0°	12507.2	4921.9	2658.9	2291.1	2090.0	2098.1	2111.7	1905.2	1845.4	1756.6	1642.4
-2.5°	12816.9	5201.3	2691.4	2290.6	2100.2	2104.8	2216.0	1994.5	1895.2	1776.0	1626.1
-5°	11220.8	4683.8	2579.3	2205.2	2045.3	2065.3	2191.1	2020.8	1899.1	1773.6	1584.4
-7.5°	8701.9	3931.3	2425.0	2099.7	1972.4	2008.0	2092.1	1967.0	1816.4	1698.9	1484.9
-10°	5547.4	3004.4	2238.8	1991.5	1903.4	1956.1	2011.6	1887.7	1729.3	1621.8	1369.8
-12.5°	3881.6	2384.9	2045.3	1872.6	1848.0	1943.0	1969.3	1800.0	1638.7	1544.2	1243.8
-15°	2557.1	2121.7	1921.0	1824.5	1830.4	1919.4	1939.3	1787.9	1655.3	1501.8	1110.5
-17.5°	2174.7	1935.0	1818.6	1806.5	1857.8	1904.9	1912.2	1821.8	1691.0	1475.0	991.5
-20°	1960.5	1836.0	1820.9	1840.0	1893.5	1929.5	1925.3	1866.9	1707.2	1338.9	858.8



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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°	1845.0	1869.6	1904.6	1927.6	1923.8	1933.4	1921.1	1868.2	1705.2	1149.8	708.5
-25°	1921.0	2008.5	2092.1	2101.7	2009.6	1937.7	1920.7	1818.7	1462.5	946.7	565.5
-27.5°	2142.1	2264.6	2356.1	2317.2	2181.4	2002.3	1892.3	1717.3	1172.0	752.3	552.6
-30°	2448.6	2505.2	2551.4	2524.2	2330.5	2119.3	1883.0	1375.4	921.6	593.6	538.6
-32.5°	2657.2	2644.4	2646.5	2603.4	2429.2	2170.9	1598.8	1041.9	673.2	576.2	535.6
-35°	2743.4	2659.7	2597.1	2527.0	2446.7	1814.2	1213.8	775.7	608.6	561.6	535.0
-37.5°	2702.4	2554.1	2445.4	2299.7	1841.1	1315.6	847.6	656.2	592.6	559.0	532.2
-40°	2519.9	2360.2	2008.0	1626.2	1238.6	831.5	702.2	640.8	598.8	555.2	528.2
-42.5°	2035.1	1708.5	1376.2	1053.0	782.7	733.8	687.7	647.0	605.0	561.2	505.3
-45°	1369.6	1096.0	842.3	791.7	744.2	715.6	692.4	654.0	611.9	545.2	477.7
-47.5°	884.7	836.1	788.8	758.6	735.6	713.0	691.8	659.4	584.3	514.7	447.8
-50°	823.4	798.9	775.5	753.5	732.0	710.9	667.8	612.7	541.9	474.4	411.6
-52.5°	810.4	788.6	768.1	747.9	707.0	658.1	607.4	552.2	490.4	427.0	368.2
-55°	801.5	764.4	724.4	682.9	639.0	589.5	538.9	485.7	430.0	372.6	318.3
-57.5°	722.7	684.3	642.8	601.5	560.5	511.4	460.3	410.9	364.4	313.7	265.6
-60°	619.5	583.7	545.5	505.3	463.2	419.3	376.7	335.1	295.0	258.0	220.8
-62.5°	504.1	471.1	436.9	401.6	365.1	328.0	294.4	265.1	236.0	205.3	170.7
-65°	386.2	358.6	329.2	302.3	276.0	250.4	225.4	199.8	173.4	146.3	117.5
-67.5°	276.4	255.4	234.7	215.0	195.4	174.8	153.1	130.9	112.4	95.1	75.8
-70°	178.5	163.6	148.5	132.7	118.7	105.6	92.0	78.1	63.6	54.2	46.5
-72.5°	99.9	91.5	82.3	72.3	61.6	55.1	50.2	45.1	39.3	33.0	28.1
-75°	51.3	48.0	44.5	40.8	37.0	33.0	30.5	28.6	26.7	24.9	23.2
-77.5°	30.7	29.5	28.3	27.2	26.0	24.7	23.3	22.1	21.1	20.1	19.1
-80°	23.0	22.2	21.5	20.8	20.1	19.4	18.6	17.8	17.0	16.2	15.5
-82.5°	17.6	17.2	16.8	16.2	15.6	15.0	14.2	13.7	13.3	12.8	12.3
-85°	13.2	13.1	12.9	12.4	11.8	11.3	10.8	10.7	10.5	10.4	10.2
-87.5°	10.4	10.2	9.9	9.7	9.4	9.2	8.9	8.9	8.8	8.7	8.5
-90°	0.0	0.0	0.0	0.2	0.5	0.7	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	7.0	6.8	6.5	6.3	6.3	6.3	6.3	6.3	5.9	5.4	5.0
87.5°	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0
85°	1.4	1.5	1.6	1.8	1.8	1.8	1.8	1.8	2.0	2.1	2.2
82.5°	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4
80°	2.0	2.1	2.1	2.1	2.2	2.3	2.4	2.4	2.5	2.6	2.7
77.5°	2.3	2.4	2.5	2.6	2.5	2.5	2.6	2.7	2.9	2.9	3.0
75°	2.7	2.6	2.6	2.7	2.8	2.7	2.7	2.8	3.0	3.2	3.2
72.5°	3.3	3.1	2.9	2.8	2.9	3.0	2.8	2.8	3.0	3.2	3.4
70°	4.6	3.8	3.4	3.2	3.2	3.3	3.2	3.1	3.0	3.3	3.5
67.5°	6.3	5.2	4.3	3.7	3.5	3.4	3.5	3.5	3.4	3.3	3.5
65°	12.2	8.2	5.3	4.6	3.9	3.6	3.6	3.8	3.7	3.6	3.5
62.5°	16.8	12.4	8.6	5.9	4.6	4.0	3.6	3.9	4.1	3.9	3.7
60°	19.8	15.0	11.6	8.4	5.8	4.4	4.0	4.1	4.3	4.2	4.0
57.5°	19.0	16.4	13.8	10.6	7.6	5.3	4.5	4.5	4.5	4.5	4.3
55°	16.7	14.6	15.2	12.9	9.3	6.4	5.2	4.9	4.8	4.8	4.5
52.5°	13.7	13.7	14.9	14.4	11.4	7.7	6.3	5.3	5.2	5.0	4.8
50°	11.1	13.0	14.9	15.3	13.4	10.0	7.3	6.2	5.6	5.4	5.1
47.5°	10.0	12.4	14.3	16.2	15.0	12.2	9.0	7.0	5.9	5.7	5.4
45°	11.2	12.1	14.0	15.7	16.8	13.8	10.8	7.8	6.6	6.0	5.7
42.5°	13.4	13.6	14.1	15.3	16.7	15.2	12.5	9.2	7.3	6.4	6.1
40°	16.8	16.4	15.2	16.4	16.7	16.4	13.7	10.6	7.9	6.8	6.3
37.5°	21.3	20.3	18.3	19.6	17.8	16.8	14.6	11.9	8.7	7.4	6.6
35°	38.5	25.5	28.7	27.1	22.2	17.6	15.4	13.0	10.0	8.0	6.9
32.5°	60.5	47.9	50.6	39.9	28.1	18.8	16.2	14.1	11.3	8.6	7.2
30°	101.6	100.6	83.9	56.1	37.3	24.3	17.8	15.4	12.4	9.2	7.5
27.5°	171.2	164.7	129.8	86.9	52.9	31.5	20.6	16.9	13.5	10.0	8.0
25°	242.6	231.2	192.0	128.8	70.8	49.0	23.9	18.6	14.7	10.9	8.5
22.5°	319.4	295.6	261.7	177.5	101.0	72.4	32.7	21.2	16.0	11.8	9.0
20°	395.0	359.1	332.1	219.4	138.7	99.3	49.5	24.0	17.4	12.6	9.5
17.5°	485.8	410.0	359.9	260.8	176.3	126.6	69.3	27.0	18.8	13.3	9.9
15°	628.1	443.8	384.6	297.2	208.9	153.8	91.4	30.0	20.2	14.0	10.3
12.5°	757.6	475.2	408.9	328.9	237.0	180.9	115.1	33.2	21.7	14.7	10.6
10°	878.9	504.1	432.5	355.9	261.1	207.4	139.5	36.3	23.0	15.3	10.9
7.5°	988.8	530.4	455.0	378.7	279.6	224.3	154.6	39.3	24.3	15.9	11.2
5°	1071.6	549.7	471.8	388.9	284.3	230.1	166.0	42.2	25.4	16.4	11.4
2.5°	1079.5	559.5	484.4	394.5	287.4	234.1	174.6	44.8	26.4	16.8	11.6
0°	1063.6	566.2	494.6	396.8	289.0	236.4	180.3	47.1	27.2	17.2	11.8
-2.5°	1048.4	566.4	495.5	403.8	302.0	243.3	186.7	60.6	35.9	22.1	14.1
-5°	1014.3	564.2	493.9	408.1	313.1	248.8	190.5	73.4	44.2	26.8	16.2
-7.5°	956.3	553.3	486.8	409.4	321.8	253.1	192.3	85.3	52.0	31.1	18.2
-10°	879.0	536.4	473.1	403.0	325.8	258.5	192.9	96.0	59.0	35.0	20.0
-12.5°	784.5	517.7	459.1	396.6	328.3	265.1	194.7	104.9	65.1	38.4	21.6
-15°	673.6	497.3	445.5	391.1	330.2	270.3	194.7	112.3	70.6	41.6	22.8
-17.5°	551.0	475.5	433.0	387.3	331.5	274.3	193.1	117.9	75.1	44.7	24.2
-20°	525.4	465.4	422.5	385.7	332.7	277.1	190.0	121.8	78.5	47.0	25.6



REPORT NUMBER: P731402 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	517.0	466.5	425.9	384.5	333.8	278.7	185.6	123.8	80.7	48.4	26.3
-25°	507.0	468.6	431.0	384.3	333.6	270.8	183.4	123.7	81.6	48.9	26.5
-27.5°	505.2	471.9	435.6	380.5	327.9	261.9	182.6	124.3	81.5	48.3	26.0
-30°	508.5	475.8	431.0	373.0	319.6	247.1	179.1	123.3	80.7	47.4	24.7
-32.5°	509.7	479.4	420.0	361.9	303.8	231.6	170.8	120.5	78.5	46.0	24.1
-35°	507.8	467.1	404.6	347.8	285.1	219.3	161.2	115.8	74.8	43.5	23.3
-37.5°	503.5	444.9	386.3	329.3	266.0	205.2	152.5	108.5	69.6	40.0	22.1
-40°	478.3	421.6	365.1	308.1	248.0	189.3	142.1	99.9	64.2	35.3	20.5
-42.5°	451.9	396.4	341.0	286.4	228.7	175.9	130.1	89.8	57.2	31.9	18.3
-45°	422.2	368.3	314.3	260.6	208.1	160.7	117.0	78.4	49.1	28.9	16.6
-47.5°	389.6	336.8	283.8	232.2	188.7	143.7	102.1	68.0	40.0	25.2	15.9
-50°	353.1	301.2	249.6	205.7	165.9	124.7	86.2	56.5	35.0	20.9	15.1
-52.5°	312.6	260.6	217.6	179.3	140.8	103.7	71.7	44.4	29.4	18.7	14.2
-55°	266.2	223.9	187.5	149.9	113.7	84.2	56.0	37.3	23.2	17.5	13.2
-57.5°	226.3	189.9	153.0	117.7	88.9	64.0	44.1	29.6	20.5	16.1	12.5
-60°	185.2	149.2	115.3	89.2	65.6	47.5	34.5	23.3	18.8	14.7	11.8
-62.5°	137.5	107.5	84.4	62.5	47.2	35.6	25.6	21.1	16.8	13.8	11.0
-65°	95.3	74.1	55.1	44.3	33.6	25.7	22.7	18.7	15.6	12.9	10.4
-67.5°	57.4	48.1	38.5	29.1	25.1	22.5	19.6	17.1	14.5	12.0	9.9
-70°	38.4	30.1	26.1	23.9	21.7	19.4	17.8	15.8	13.4	11.3	9.5
-72.5°	26.1	24.2	22.3	20.4	18.8	17.4	16.1	14.6	12.5	10.6	9.0
-75°	21.6	20.2	18.9	17.6	16.3	15.3	14.5	13.3	11.5	9.9	8.3
-77.5°	18.0	16.9	15.7	14.9	14.2	13.5	12.9	12.0	10.5	9.0	7.5
-80°	14.7	14.1	13.4	12.8	12.3	11.8	11.4	10.8	9.5	8.1	6.8
-82.5°	11.9	11.6	11.3	11.0	10.7	10.4	10.1	9.7	8.5	7.3	6.1
-85°	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.6	7.6	6.6	5.8
-87.5°	8.4	8.3	8.1	7.9	7.8	7.7	7.6	7.5	6.7	6.0	5.4
-90°	0.9	0.9	0.9	0.9	1.1	1.4	1.6	1.8	1.8	1.8	1.8



REPORT NUMBER: P731402 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.5	4.1	3.6	3.2	2.7	2.7	2.7
87.5°	2.0	2.2	2.3	2.5	2.7	2.7	2.7
85°	2.3	2.3	2.4	2.5	2.7	2.7	2.7
82.5°	2.5	2.5	2.5	2.6	2.7	2.8	2.7
80°	2.7	2.6	2.6	2.6	2.7	2.8	2.7
77.5°	3.0	2.8	2.6	2.6	2.7	2.8	2.7
75°	3.2	3.0	2.7	2.7	2.7	2.8	2.7
72.5°	3.4	3.1	2.9	2.7	2.7	2.8	2.7
70°	3.6	3.3	3.0	2.7	2.7	2.9	2.7
67.5°	3.6	3.5	3.2	2.8	2.8	2.9	2.7
65°	3.7	3.6	3.3	2.9	2.8	2.9	2.7
62.5°	3.7	3.7	3.5	3.0	2.8	2.9	2.7
60°	3.8	3.8	3.6	3.1	2.8	3.0	2.7
57.5°	4.0	3.9	3.7	3.2	2.9	3.0	2.7
55°	4.2	4.0	3.8	3.3	3.0	3.0	2.7
52.5°	4.4	4.1	3.9	3.4	3.1	3.0	2.7
50°	4.7	4.3	4.0	3.5	3.2	3.1	2.7
47.5°	4.9	4.4	4.1	3.6	3.3	3.1	2.7
45°	5.2	4.6	4.2	3.7	3.3	3.1	2.7
42.5°	5.5	4.8	4.3	3.8	3.4	3.1	2.7
40°	5.8	5.0	4.4	3.9	3.5	3.2	2.7
37.5°	6.1	5.1	4.5	4.0	3.6	3.2	2.7
35°	6.4	5.3	4.7	4.1	3.7	3.2	2.7
32.5°	6.7	5.6	4.8	4.2	3.7	3.3	2.7
30°	6.9	5.8	4.9	4.4	3.8	3.3	2.7
27.5°	7.1	6.1	5.1	4.5	3.9	3.3	2.7
25°	7.4	6.3	5.2	4.6	3.9	3.3	2.7
22.5°	7.6	6.5	5.3	4.7	4.0	3.4	2.7
20°	7.8	6.7	5.5	4.8	4.1	3.4	2.7
17.5°	8.0	6.8	5.6	4.9	4.1	3.4	2.7
15°	8.1	6.9	5.7	5.0	4.2	3.5	2.7
12.5°	8.3	7.0	5.8	5.0	4.3	3.5	2.7
10°	8.5	7.1	5.9	5.1	4.3	3.5	2.7
7.5°	8.7	7.1	6.0	5.2	4.4	3.5	2.7
5°	8.8	7.2	6.1	5.3	4.4	3.6	2.7
2.5°	9.0	7.2	6.2	5.3	4.5	3.6	2.7
0°	9.1	7.2	6.3	5.4	4.5	3.6	2.7
-2.5°	9.9	7.6	6.5	5.5	4.5	3.6	2.7
-5°	10.7	8.0	6.6	5.5	4.6	3.6	2.7
-7.5°	11.5	8.4	6.8	5.6	4.6	3.7	2.7
-10°	12.2	8.7	6.9	5.6	4.6	3.7	2.7
-12.5°	12.8	9.0	7.0	5.6	4.7	3.7	2.7
-15°	13.3	9.3	7.1	5.7	4.7	3.7	2.7
-17.5°	13.7	9.5	7.2	5.7	4.7	3.7	2.7
-20°	14.1	9.7	7.2	5.7	4.7	3.7	2.7



REPORT NUMBER: P731402 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.6	9.8	7.3	5.7	4.7	3.7	2.7
-25°	14.8	9.9	7.3	5.7	4.7	3.7	2.7
-27.5°	14.8	9.9	7.2	5.7	4.7	3.7	2.7
-30°	14.5	9.9	7.2	5.7	4.7	3.7	2.7
-32.5°	13.9	9.8	7.2	5.7	4.7	3.7	2.7
-35°	13.5	9.7	7.1	5.7	4.7	3.6	2.7
-37.5°	13.4	9.5	7.1	5.7	4.7	3.6	2.7
-40°	13.1	9.4	7.0	5.6	4.7	3.6	2.7
-42.5°	12.7	9.3	6.9	5.6	4.6	3.6	2.7
-45°	12.2	9.1	6.9	5.6	4.6	3.6	2.7
-47.5°	11.7	8.8	6.8	5.6	4.6	3.5	2.7
-50°	11.3	8.6	6.8	5.5	4.5	3.5	2.7
-52.5°	10.8	8.2	6.7	5.5	4.5	3.5	2.7
-55°	10.3	8.1	6.6	5.4	4.5	3.4	2.7
-57.5°	9.8	7.9	6.5	5.3	4.4	3.4	2.7
-60°	9.2	7.7	6.4	5.2	4.4	3.3	2.7
-62.5°	9.0	7.5	6.2	5.1	4.3	3.3	2.7
-65°	8.7	7.3	6.0	5.0	4.1	3.3	2.7
-67.5°	8.4	7.0	5.8	4.9	4.0	3.2	2.7
-70°	8.0	6.6	5.5	4.7	3.9	3.2	2.7
-72.5°	7.4	6.2	5.3	4.5	3.8	3.1	2.7
-75°	6.8	5.8	5.0	4.3	3.6	3.0	2.7
-77.5°	6.1	5.3	4.7	4.1	3.5	3.0	2.7
-80°	5.5	5.0	4.5	4.0	3.3	2.9	2.7
-82.5°	5.2	4.8	4.3	3.8	3.2	2.9	2.7
-85°	5.0	4.5	4.1	3.6	3.0	2.8	2.7
-87.5°	4.7	4.3	3.8	3.4	2.9	2.8	2.7
-90°	1.8	2.0	2.3	2.5	2.7	2.7	2.7

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

