

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: P731439 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-4S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731439 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-25)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-4S-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

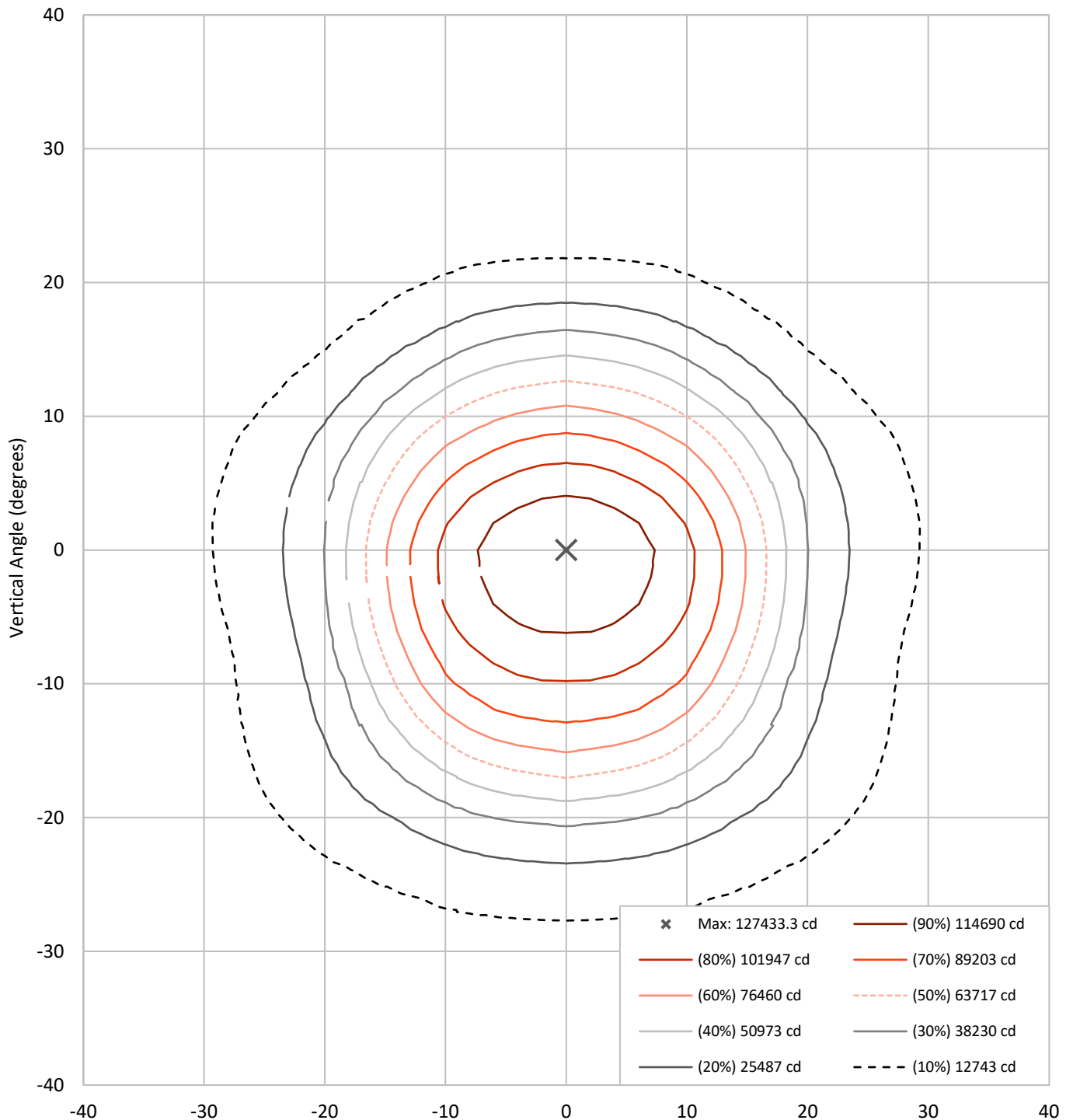
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	40784.4 lumens	Max Intensity:	127433.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	117.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.2°H x 29.7°V	Field Angle (10%):	58.6°H x 49.3°V
Beam Lumens:	22379.7 lumens	Field Lumens:	35857.2 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

Input Watts (W): 345.8
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





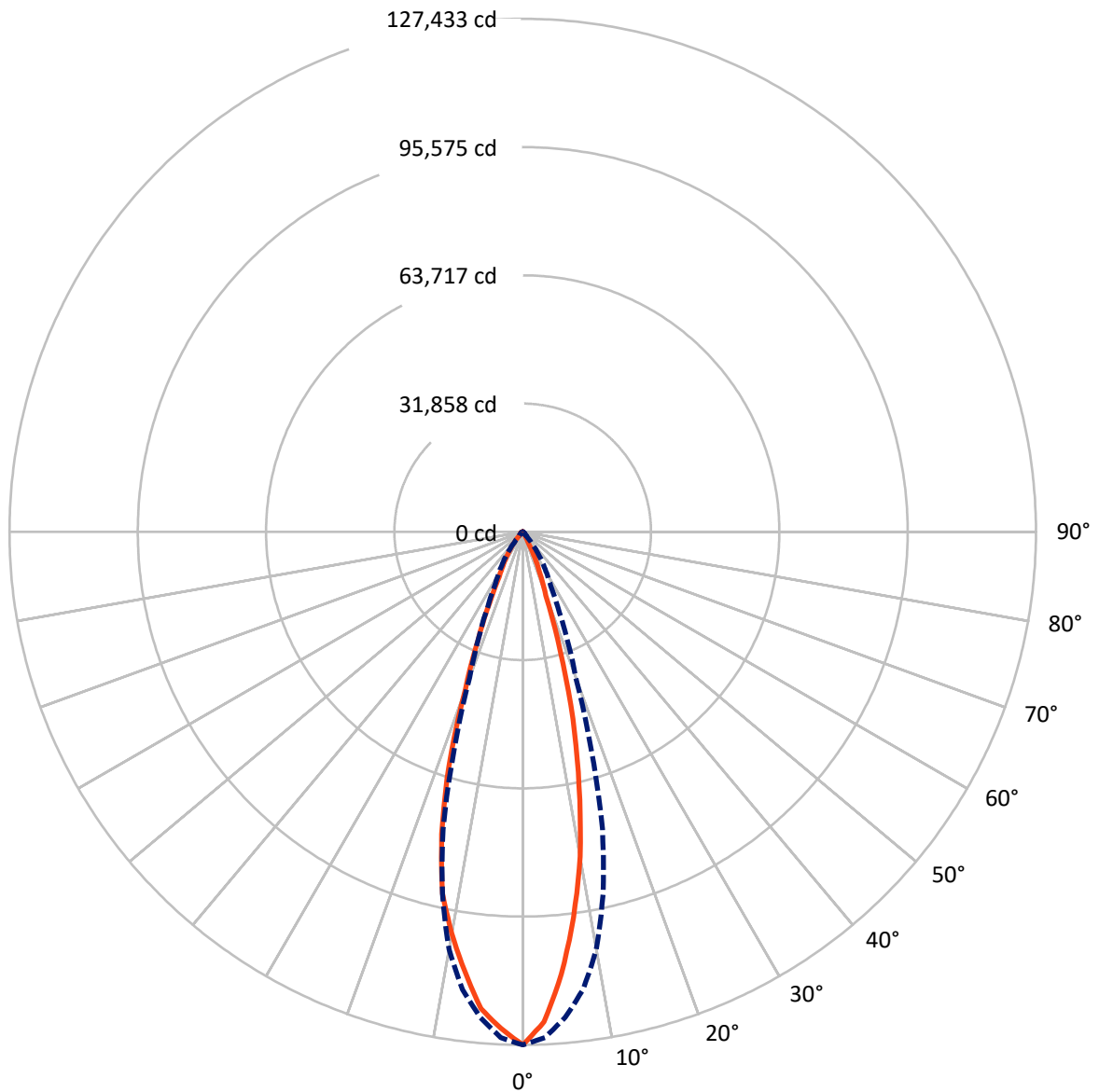
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Lumen Table

90	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1		
80	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1		
70	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1
60		0.1	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.2	0.1
40		0.1	0.5	1.0	1.7	3.8	7.7	10.6	10.6	7.7	3.8	1.7	1.0	0.5	
30	0.1	0.2	1.5	4.0	14.9	54.4	128.8	217.9	217.9	128.8	54.4	14.9	4.0	1.5	0.1
20		0.5	3.3	10.7	66.0	228.6	701.5	1325.4	1325.4	701.5	228.6	66.0	10.7	3.3	
10	0.2	0.9	5.7	20.3	153.8	547.7	1817.0	3070.0	3070.0	1817.0	547.7	153.8	20.3	5.7	0.2
0		1.6	7.6	24.0	160.3	564.9	2039.3	3370.5	3370.5	2039.3	564.9	160.3	24.0	7.6	
-10	0.3	1.8	7.7	20.7	125.1	416.4	1217.9	2127.8	2127.8	1217.9	416.4	125.1	20.7	7.7	0.3
-20		1.7	6.6	14.2	54.0	197.6	411.3	615.6	615.6	411.3	197.6	54.0	14.2	6.6	
-30	0.2	1.3	5.1	9.9	18.6	53.4	121.2	171.2	171.2	121.2	53.4	18.6	9.9	5.1	0.2
-40		0.8	3.4	7.5	12.2	18.5	27.2	35.6	35.6	27.2	18.5	12.2	7.5	3.4	
-50	0.1	0.4	1.8	4.9	9.0	13.0	16.7	18.9	18.9	16.7	13.0	9.0	4.9	1.8	0.1
-60		0.2	0.7	2.0	4.4	7.5	10.8	12.7	12.7	10.8	7.5	4.4	2.0	0.7	
-70	0.1	0.2	0.7	2.0	4.4	7.5	10.8	12.7	12.7	10.8	7.5	4.4	2.0	0.7	0.1
-80		0.1	0.5	1.6	4.3	6.0	4.3	1.6	0.5	0.1					
-90	0.1	0.5	1.6	4.3	6.0	4.3	1.6	0.5	0.1						

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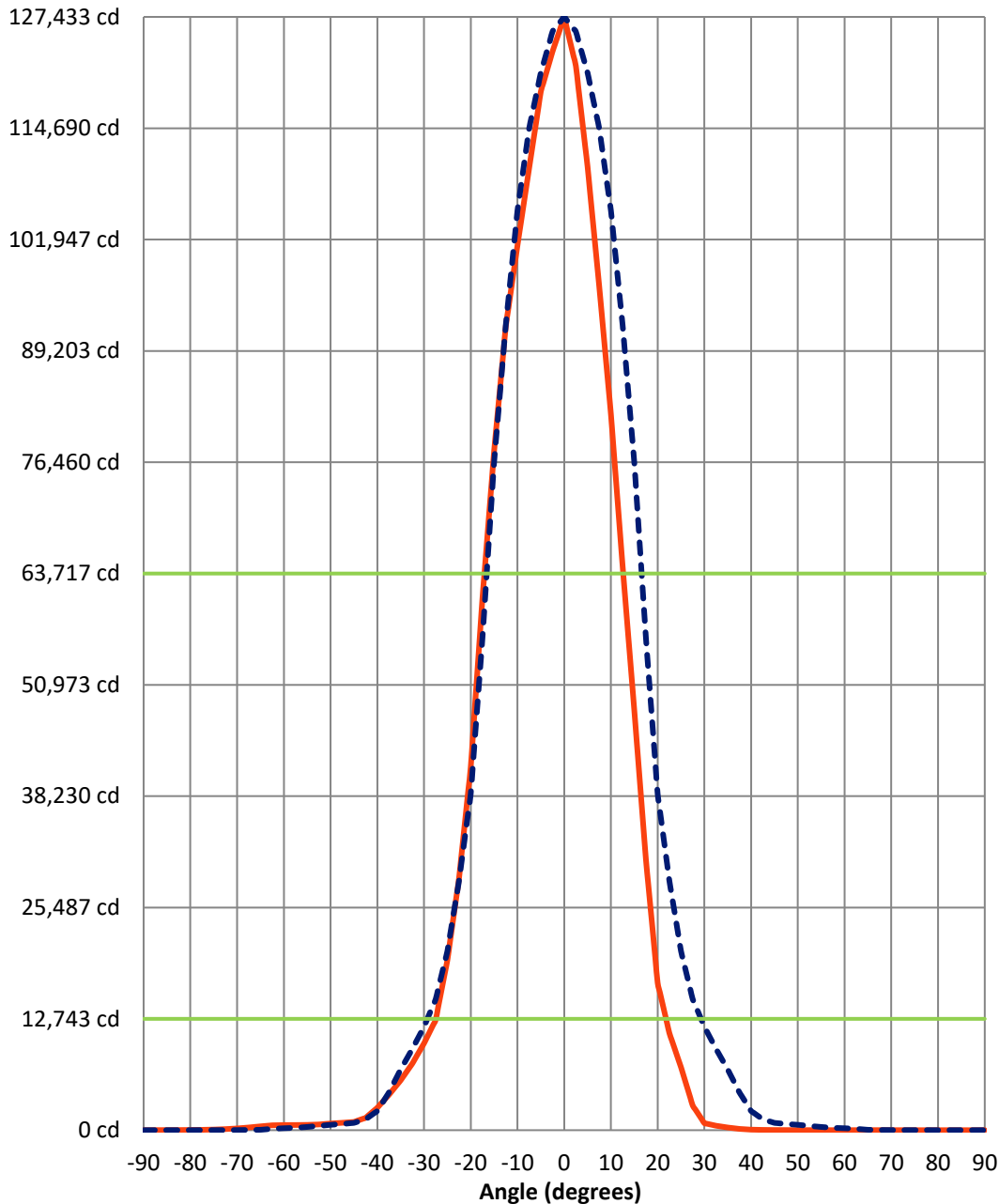
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 33.2°
V Angle: 29.7°
Lumens: 22379.7
Efficiency: 54.9%

Field:
H Angle: 58.6°
V Angle: 49.3°
Lumens: 35857.2
Efficiency: 87.9%

Spill:
Lumens: 4927.2
Efficiency: 12.1%

— 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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	4.7	4.7	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.6	4.8	4.9	4.9	4.8	4.6
75°	4.5	4.5	4.5	4.5	4.5	4.8	5.1	5.2	5.1	4.9	4.6
72.5°	4.5	4.5	4.5	4.5	4.7	5.0	5.4	5.4	5.1	4.9	4.6
70°	4.5	4.5	4.5	4.5	4.9	5.3	5.6	5.4	5.2	4.9	5.0
67.5°	4.5	4.5	4.5	4.7	5.1	5.5	5.6	5.5	5.2	5.2	5.3
65°	4.5	4.5	4.5	4.8	5.3	5.6	5.6	5.5	5.4	5.4	5.6
62.5°	4.5	4.5	4.5	4.9	5.4	5.6	5.6	5.5	5.5	5.6	5.6
60°	4.5	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6
57.5°	4.5	4.5	4.6	5.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6
55°	4.5	4.5	4.7	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6
52.5°	4.5	4.5	4.7	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6
50°	4.5	4.5	4.8	5.5	5.6	5.6	5.6	5.6	5.6	5.6	6.1
47.5°	4.5	4.5	4.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.6
45°	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.6	6.0	7.0
42.5°	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.7	6.3	7.3
40°	4.5	4.5	5.1	5.6	5.6	5.6	5.6	5.7	5.9	6.5	7.6
37.5°	4.5	4.5	5.1	5.6	5.6	5.6	5.6	5.8	6.2	6.9	7.8
35°	4.5	4.5	5.2	5.6	5.6	5.6	5.6	6.0	6.5	7.3	8.0
32.5°	4.5	4.5	5.3	5.6	5.6	5.6	5.6	6.1	6.8	7.6	8.5
30°	4.5	4.5	5.3	5.6	5.6	5.6	5.7	6.3	7.1	8.0	9.2
27.5°	4.5	4.5	5.4	5.6	5.6	5.6	5.9	6.6	7.4	8.3	10.1
25°	4.5	4.5	5.4	5.6	5.6	5.6	6.0	6.8	7.7	8.9	11.2
22.5°	4.5	4.5	5.4	5.6	5.6	5.6	6.1	7.0	8.0	9.6	13.6
20°	4.5	4.5	5.5	5.6	5.6	5.7	6.3	7.2	8.2	10.5	16.0
17.5°	4.5	4.5	5.5	5.6	5.6	5.8	6.4	7.5	8.4	11.4	18.4
15°	4.5	4.5	5.5	5.6	5.6	5.9	6.5	7.7	8.6	12.3	20.8
12.5°	4.5	4.5	5.5	5.6	5.6	6.0	6.6	7.9	9.2	13.3	23.1
10°	4.5	4.5	5.6	5.6	5.6	6.2	6.6	8.1	10.3	15.5	26.4
7.5°	4.5	4.5	5.6	5.6	5.6	6.3	6.7	8.4	11.3	17.9	31.7
5°	4.5	4.5	5.6	5.6	5.6	6.4	6.7	8.6	12.4	20.2	37.1
2.5°	4.5	4.5	5.6	5.6	5.6	6.6	6.7	8.8	13.5	22.5	42.3
0°	4.5	4.5	5.6	5.6	5.6	6.7	6.7	9.0	14.6	24.7	47.2
-2.5°	4.5	4.5	5.6	5.6	5.6	6.7	7.3	10.7	18.8	32.7	61.1
-5°	4.5	4.5	5.6	5.6	5.6	6.7	7.9	12.4	22.9	40.4	74.1
-7.5°	4.5	4.5	5.6	5.6	5.6	6.7	8.4	13.9	26.6	47.5	86.1
-10°	4.5	4.5	5.6	5.6	5.6	6.6	8.9	15.3	29.8	53.8	96.6
-12.5°	4.5	4.5	5.5	5.6	5.6	6.6	9.3	16.5	32.5	59.1	103.5
-15°	4.5	4.5	5.5	5.6	5.6	6.5	9.5	17.3	34.8	63.2	108.0
-17.5°	4.5	4.5	5.5	5.6	5.6	6.4	9.7	18.3	36.7	66.3	111.0
-20°	4.5	4.5	5.5	5.6	5.6	6.4	9.9	19.2	37.8	68.1	112.4



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	4.5	5.4	5.6	5.6	6.3	10.3	19.8	38.0	68.7	112.1
-25°	4.5	4.5	5.4	5.6	5.6	6.4	10.5	20.0	37.4	68.0	110.1
-27.5°	4.5	4.5	5.4	5.6	5.6	6.5	10.4	19.9	35.8	66.4	109.0
-30°	4.5	4.5	5.3	5.6	5.6	6.5	10.1	19.3	34.7	64.5	106.1
-32.5°	4.5	4.5	5.3	5.6	5.7	6.4	9.6	18.8	34.0	61.3	101.4
-35°	4.5	4.5	5.2	5.6	5.7	6.3	9.3	18.2	32.6	56.6	94.7
-37.5°	4.5	4.5	5.1	5.6	5.7	6.2	9.2	17.1	30.7	50.6	84.3
-40°	4.5	4.5	5.1	5.6	5.8	6.2	8.9	15.6	28.2	46.7	74.2
-42.5°	4.5	4.5	5.0	5.6	5.8	6.3	8.4	13.8	25.8	42.2	63.6
-45°	4.5	4.5	5.0	5.6	5.8	6.3	7.9	12.2	23.2	37.3	53.3
-47.5°	4.5	4.5	4.9	5.7	5.9	6.3	7.1	11.3	20.0	32.0	47.3
-50°	4.5	4.5	4.8	5.6	5.9	6.2	7.0	10.3	16.1	27.5	41.0
-52.5°	4.5	4.5	4.7	5.5	5.9	6.2	6.9	9.0	13.7	22.7	34.4
-55°	4.5	4.5	4.7	5.4	6.0	6.2	6.8	7.7	11.9	17.5	28.5
-57.5°	4.5	4.5	4.6	5.3	6.0	6.2	6.6	7.5	9.9	14.4	22.2
-60°	4.5	4.5	4.5	5.2	6.0	6.2	6.5	7.3	8.1	11.8	16.7
-62.5°	4.5	4.5	4.5	5.1	5.9	6.3	6.5	7.0	7.8	9.1	13.4
-65°	4.5	4.5	4.5	5.0	5.7	6.3	6.6	6.8	7.5	8.2	9.9
-67.5°	4.5	4.5	4.5	4.9	5.5	6.2	6.6	6.8	7.1	7.8	8.5
-70°	4.5	4.5	4.5	4.8	5.4	6.0	6.6	6.8	7.0	7.5	8.1
-72.5°	4.5	4.5	4.5	4.7	5.2	5.8	6.4	6.7	6.9	7.2	7.7
-75°	4.5	4.5	4.5	4.7	5.0	5.6	6.1	6.5	6.7	6.9	7.3
-77.5°	4.5	4.5	4.5	4.7	5.0	5.4	5.9	6.1	6.4	6.6	6.8
-80°	4.5	4.5	4.5	4.6	4.9	5.2	5.6	5.8	6.0	6.2	6.4
-82.5°	4.5	4.5	4.5	4.6	4.8	5.0	5.3	5.5	5.6	5.8	5.9
-85°	4.5	4.5	4.5	4.6	4.7	4.9	5.1	5.2	5.3	5.3	5.4
-87.5°	4.5	4.5	4.5	4.5	4.6	4.7	4.8	4.8	4.9	4.9	5.0
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	4.0	3.7
87.5°	4.2	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.1	2.8	2.5
85°	4.2	4.0	3.7	3.6	3.6	3.6	3.5	3.4	3.2	3.1	3.0
82.5°	4.3	4.2	4.2	4.2	4.1	3.9	3.7	3.4	3.4	3.4	3.4
80°	4.5	4.5	4.5	4.5	4.3	4.0	3.7	3.4	3.4	3.4	3.5
77.5°	4.5	4.5	4.5	4.5	4.3	4.1	4.0	4.0	4.0	3.9	3.7
75°	4.5	4.5	4.6	4.5	4.4	4.4	4.5	4.5	4.3	4.1	3.8
72.5°	4.7	4.8	4.8	4.6	4.5	4.5	4.5	4.5	4.6	4.7	4.6
70°	5.1	5.2	5.0	4.7	4.5	4.7	5.3	5.8	6.2	6.2	6.4
67.5°	5.5	5.3	5.0	4.9	5.4	6.0	6.7	7.6	8.5	8.9	9.4
65°	5.6	5.3	5.3	5.8	6.6	7.5	8.5	9.7	12.1	13.6	14.3
62.5°	5.6	5.5	5.8	6.7	7.8	9.0	10.7	13.4	17.1	19.6	19.8
60°	5.6	5.7	6.6	7.8	9.0	10.5	13.1	17.3	22.8	26.9	24.5
57.5°	5.6	6.2	7.6	8.8	10.0	11.7	15.7	21.1	26.7	32.6	27.9
55°	5.9	7.2	8.4	9.5	11.1	13.2	17.4	22.4	28.6	30.4	25.0
52.5°	6.7	8.0	8.9	10.2	12.2	14.3	17.2	21.6	23.6	24.1	20.8
50°	7.3	8.3	9.3	10.9	12.9	14.6	15.5	18.2	18.9	18.0	16.2
47.5°	7.7	8.7	9.6	11.4	13.4	14.8	14.9	15.0	14.8	14.5	11.9
45°	8.0	9.0	9.9	11.9	14.1	15.3	14.6	12.5	14.2	13.7	13.1
42.5°	8.3	9.3	10.9	12.5	15.3	16.1	14.9	15.5	15.9	16.6	16.9
40°	8.6	9.6	12.3	15.3	16.9	17.3	19.1	20.5	20.0	21.8	22.9
37.5°	8.8	11.1	14.9	20.5	18.7	21.1	24.7	30.3	30.5	28.6	33.0
35°	9.1	12.9	21.2	27.2	25.7	27.3	36.5	43.9	46.0	43.6	46.4
32.5°	10.1	14.8	29.1	35.4	39.0	40.9	51.3	62.4	70.8	72.4	65.6
30°	12.2	22.1	38.2	45.3	55.7	65.8	73.1	86.5	103.7	117.1	122.6
27.5°	14.9	30.9	47.7	60.5	76.4	93.6	106.2	123.0	150.9	174.9	194.7
25°	17.8	42.9	58.3	79.1	102.7	125.0	144.4	172.4	209.3	249.2	318.5
22.5°	24.2	56.5	74.3	99.6	130.8	158.7	191.0	230.7	278.1	332.8	461.3
20°	34.6	70.0	93.5	122.5	161.0	194.0	239.6	290.3	354.9	471.6	689.7
17.5°	45.8	84.5	113.2	149.5	197.3	239.1	290.2	349.4	435.1	621.7	1051.2
15°	57.4	99.7	132.0	178.2	237.0	296.7	358.4	422.9	545.4	834.1	1511.6
12.5°	69.1	115.3	149.8	207.8	279.1	356.8	430.4	512.4	689.7	1199.2	2193.7
10°	80.6	131.0	166.7	237.7	322.6	418.2	501.8	598.4	839.6	1529.9	2803.6
7.5°	99.6	151.4	184.7	267.2	366.3	479.7	571.8	680.3	986.0	1818.2	3365.4
5°	119.6	176.6	213.5	303.3	409.4	534.4	635.2	757.5	1124.7	2060.7	3892.4
2.5°	138.7	200.8	241.5	337.9	449.8	577.0	675.4	800.8	1198.8	2174.0	4217.8
0°	156.2	223.6	268.6	369.7	486.6	614.7	711.4	838.4	1244.0	2195.9	4322.1
-2.5°	177.4	248.7	296.6	395.0	506.7	636.9	734.2	867.0	1290.8	2318.7	4341.0
-5°	195.6	271.9	323.2	417.5	523.6	654.2	753.2	889.2	1312.7	2374.6	4249.7
-7.5°	210.3	293.1	348.5	435.3	532.3	657.7	760.2	892.9	1297.4	2345.8	4063.0
-10°	219.2	302.1	354.6	435.0	529.5	650.3	760.3	889.7	1253.6	2226.4	3800.7
-12.5°	212.7	299.6	355.7	431.7	524.1	638.0	754.9	879.5	1179.0	2005.9	3493.8
-15°	204.8	295.6	354.9	425.4	516.4	620.8	743.7	862.1	1062.7	1664.0	3114.7
-17.5°	195.7	290.1	352.2	416.1	506.6	598.5	720.8	816.9	942.3	1417.8	2677.8
-20°	185.8	283.2	347.5	403.6	494.5	566.5	667.1	766.0	880.5	1205.7	2090.1



REPORT NUMBER: P731439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	175.5	274.9	339.5	395.6	463.9	529.6	610.5	707.5	812.4	942.1	1464.9
-25°	169.4	259.4	328.1	376.8	430.8	491.9	552.5	642.0	741.3	845.8	1120.9
-27.5°	166.3	244.4	309.5	358.1	398.9	454.3	505.7	577.2	669.3	758.6	845.7
-30°	160.9	223.1	290.5	338.7	375.7	419.3	463.7	521.6	603.4	681.8	754.1
-32.5°	149.3	201.5	267.1	317.1	355.2	387.0	430.9	482.6	545.4	613.6	671.7
-35°	135.0	184.4	242.0	295.6	335.0	365.1	404.6	448.1	494.2	553.3	622.9
-37.5°	121.8	165.9	216.9	271.5	311.8	348.4	378.8	417.9	457.8	501.5	571.1
-40°	107.6	146.0	194.2	244.4	291.0	329.0	360.6	389.9	424.7	468.4	514.9
-42.5°	92.8	129.2	171.0	217.9	264.7	305.6	341.4	368.5	398.2	435.8	477.2
-45°	80.5	111.5	147.2	191.6	235.7	278.9	315.3	349.4	377.9	405.6	441.4
-47.5°	67.8	94.1	126.9	164.8	206.7	247.2	286.7	324.3	360.6	386.5	408.4
-50°	56.1	79.6	106.4	141.1	177.7	215.7	252.7	296.7	335.1	367.8	393.3
-52.5°	48.6	64.7	89.3	117.9	150.8	184.8	221.4	261.9	303.5	342.4	372.2
-55°	40.7	54.6	72.0	96.7	124.6	155.5	189.7	226.9	264.7	303.7	341.9
-57.5°	33.2	45.5	58.7	75.9	100.1	126.6	157.9	190.9	225.7	261.2	296.4
-60°	25.5	36.3	48.3	60.8	75.6	99.4	125.3	154.3	185.3	217.1	248.9
-62.5°	18.2	27.1	37.6	48.9	60.6	73.5	94.5	118.6	143.6	170.0	197.7
-65°	14.2	18.8	26.5	36.5	47.2	58.5	70.9	84.5	105.4	125.8	145.3
-67.5°	10.0	14.2	18.4	23.6	32.7	42.4	52.8	64.1	76.2	88.2	102.1
-70°	8.9	10.1	13.4	17.1	20.7	25.5	34.0	43.1	52.5	61.5	71.5
-72.5°	8.3	9.2	10.4	11.9	14.9	17.8	20.7	23.5	29.0	36.5	43.8
-75°	7.7	8.3	9.1	10.2	11.4	12.6	14.1	16.6	18.9	21.1	23.4
-77.5°	7.1	7.5	8.0	8.6	9.3	10.2	11.3	12.3	13.3	14.2	15.1
-80°	6.5	6.7	7.0	7.3	7.8	8.3	8.8	9.5	9.9	10.4	11.0
-82.5°	6.0	6.1	6.3	6.4	6.5	6.6	6.8	7.1	7.4	7.7	8.0
-85°	5.5	5.6	5.7	5.8	5.6	5.5	5.5	5.4	5.5	5.7	5.8
-87.5°	5.0	5.0	5.1	5.1	5.0	4.9	4.7	4.5	4.4	4.4	4.3
-90°	4.2	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.1	2.8	2.5



REPORT NUMBER: P731439 (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°
90°	3.4	3.4	3.4	3.4	3.4	4.0	4.5	5.1	5.6	6.2	6.8
87.5°	2.2	2.2	2.2	2.2	2.2	1.9	1.7	1.4	1.1	1.1	1.1
85°	3.0	2.8	2.6	2.4	2.2	2.2	2.1	2.1	2.1	1.9	1.6
82.5°	3.4	3.1	2.8	2.5	2.2	2.2	2.2	2.2	2.2	1.9	1.7
80°	3.4	3.1	2.8	2.5	2.2	2.2	2.2	2.2	2.2	1.9	1.7
77.5°	3.5	3.2	3.0	2.9	2.9	2.8	2.7	2.5	2.2	2.0	1.7
75°	3.5	3.4	3.5	3.5	3.4	3.2	2.9	2.6	2.3	2.2	2.2
72.5°	4.4	4.2	4.2	4.3	4.3	4.1	3.9	3.6	3.2	3.2	3.3
70°	6.6	6.7	6.8	6.7	6.3	5.7	5.3	4.9	4.4	4.3	4.4
67.5°	10.0	10.1	9.8	9.0	7.9	6.8	6.4	6.0	5.5	5.4	5.4
65°	14.3	13.3	12.1	10.8	9.4	7.8	7.3	6.9	6.5	6.5	6.9
62.5°	18.5	15.1	12.1	10.3	8.9	7.8	7.2	6.7	6.3	6.0	6.2
60°	20.3	14.4	10.5	9.3	8.1	6.9	6.2	5.7	5.2	4.9	5.1
57.5°	20.4	14.1	9.7	8.3	7.0	6.0	5.4	5.1	4.8	4.5	4.9
55°	18.2	12.6	8.3	7.1	6.4	5.8	5.5	5.5	5.3	5.2	5.4
52.5°	14.6	10.5	7.7	6.6	6.7	6.7	6.6	6.6	6.8	7.0	7.3
50°	11.6	8.9	8.1	7.7	7.9	8.0	7.8	8.3	8.8	9.2	9.5
47.5°	10.6	9.8	9.9	9.6	10.0	10.8	10.9	11.2	12.1	12.7	13.1
45°	11.8	12.7	13.2	14.1	14.7	16.0	16.4	16.5	18.3	19.6	20.2
42.5°	16.5	18.0	19.7	21.5	22.4	24.1	25.8	26.7	29.5	31.7	32.5
40°	25.0	25.8	29.5	31.8	33.5	35.6	40.8	44.2	49.6	59.7	67.0
37.5°	36.7	39.4	41.6	44.8	51.9	55.4	72.0	87.1	97.5	122.6	136.7
35°	53.8	61.2	58.6	73.0	90.8	113.2	137.5	173.7	202.4	236.4	267.7
32.5°	84.3	102.4	119.8	136.5	176.5	240.7	242.4	310.2	355.6	410.6	459.0
30°	133.5	197.3	277.6	304.2	416.8	542.6	507.7	611.7	714.8	776.1	987.7
27.5°	263.3	407.2	566.8	769.6	979.3	1195.6	1338.8	1389.0	1910.5	2293.9	2793.0
25°	450.6	703.0	1148.8	1477.2	1845.5	2325.8	2603.3	2976.9	3846.7	4930.6	5772.6
22.5°	718.1	1159.1	1748.0	2245.0	2797.1	3444.4	4029.9	4925.4	6278.1	7757.7	9016.4
20°	1017.8	1586.4	2332.7	3077.2	3800.9	4644.6	5663.3	7492.0	9582.0	11901.3	13998.0
17.5°	1570.9	2130.0	3085.7	4103.5	5131.7	6147.9	8388.1	11096.4	14368.2	17804.8	20857.2
15°	2361.2	3266.1	4214.0	5559.9	7271.3	9224.1	12061.2	16811.4	21892.7	27256.2	33650.2
12.5°	3392.6	4704.5	6126.5	7684.8	10005.1	13569.9	18276.3	24074.3	31347.6	39394.1	48492.6
10°	4445.1	6337.1	8295.4	10521.0	13579.2	18170.9	24248.8	31508.5	42946.8	54220.8	63716.6
7.5°	5300.9	7505.9	9976.6	12932.9	16918.9	22513.8	30024.7	40516.7	54157.6	67571.6	78194.7
5°	6103.8	8526.0	11098.1	14118.6	18924.1	25671.0	34716.3	47806.7	64125.6	78391.6	89774.9
2.5°	6686.2	9230.6	11891.5	14964.9	20443.6	27590.3	37521.0	53758.7	72541.7	87158.1	100210.3
0°	6944.0	9298.3	11843.7	14997.1	20493.6	28569.2	38493.5	56272.0	76437.5	92151.0	105261.8
-2.5°	6624.4	8910.1	11536.7	14617.4	20127.2	27885.0	38136.5	55989.0	76223.8	92159.8	105085.9
-5°	6286.2	8453.1	10891.4	13739.0	18763.2	25976.6	36435.9	53493.4	72910.9	88932.1	101541.3
-7.5°	5925.6	7908.9	10090.4	12645.3	17102.5	24043.9	33756.0	48152.6	66302.7	82615.1	94474.1
-10°	5513.5	7318.9	9613.1	12320.8	16201.1	22235.0	30266.8	41800.3	58800.2	73956.1	86976.6
-12.5°	5271.5	7197.2	9489.7	11976.8	15106.9	20424.3	27732.2	37570.4	49207.4	63285.6	74871.2
-15°	4960.5	6909.8	9183.2	11516.7	14413.9	18565.7	24335.6	31561.7	40416.4	49903.4	60186.8
-17.5°	4449.1	6397.3	8228.1	10418.1	13169.9	16450.1	20596.5	26204.5	32079.6	38801.6	44954.0
-20°	3606.9	5180.6	6912.1	8975.6	11341.2	13826.8	16595.8	20416.8	24143.7	28849.7	32627.7



REPORT NUMBER: P731439 (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°	2595.0	3925.2	5425.3	7130.7	9004.0	11132.1	13218.0	15234.4	17788.5	20767.4	23802.9
-25°	1690.1	2674.2	3973.1	5370.8	6679.1	8379.9	9878.5	11082.7	12805.0	14152.9	15992.5
-27.5°	1170.3	1809.9	2777.6	3891.2	4923.2	6011.7	7231.7	8053.9	9395.6	10124.8	11252.4
-30°	856.3	1215.3	1911.2	2744.1	3643.2	4569.8	5440.8	6344.8	7278.1	8103.4	8729.2
-32.5°	759.4	900.4	1243.6	1843.1	2546.6	3323.6	4061.1	4849.2	5592.7	6232.4	6748.7
-35°	693.6	772.7	880.5	1197.5	1617.3	2223.9	2804.1	3442.1	4039.2	4533.7	4948.2
-37.5°	641.5	704.8	772.7	842.2	1077.9	1343.3	1755.8	2199.1	2582.4	3020.2	3358.3
-40°	582.3	649.9	704.3	759.8	822.3	888.9	1112.1	1310.6	1527.1	1822.7	2064.2
-42.5°	521.2	580.1	641.3	692.9	740.1	789.9	840.1	884.5	994.4	1124.8	1223.7
-45°	478.9	520.6	565.4	620.2	670.9	714.1	754.7	793.6	833.5	870.3	900.9
-47.5°	441.7	475.4	512.3	550.0	588.1	632.5	674.1	713.6	748.2	779.6	804.9
-50°	414.5	437.8	468.6	498.2	530.9	561.8	589.5	621.8	657.3	689.5	715.2
-52.5°	400.8	421.1	438.8	460.1	489.5	515.5	538.2	563.9	588.5	611.1	627.6
-55°	373.8	400.4	426.1	450.1	470.4	488.9	508.6	533.8	555.5	574.1	584.3
-57.5°	331.4	365.6	398.0	428.4	457.0	483.9	506.2	526.2	546.2	565.2	574.0
-60°	281.3	314.0	347.8	384.4	421.3	458.0	485.1	510.9	535.2	555.6	566.4
-62.5°	227.5	257.2	287.5	320.5	355.6	389.9	419.4	450.2	481.7	508.9	526.3
-65°	166.3	191.7	218.8	245.8	272.5	300.0	326.3	352.2	377.3	397.7	411.9
-67.5°	119.2	135.6	152.4	169.7	190.4	211.6	231.1	249.9	267.9	282.3	292.9
-70°	82.0	92.5	102.4	113.5	126.7	139.6	151.6	163.0	173.6	182.7	190.2
-72.5°	51.0	57.9	64.8	72.5	80.1	87.3	94.1	100.4	106.3	111.6	116.5
-75°	25.6	28.9	34.3	39.5	44.3	49.4	54.1	58.2	61.8	64.8	67.3
-77.5°	16.6	18.6	20.7	22.5	24.3	26.6	29.2	31.9	34.5	36.6	38.6
-80°	11.6	12.7	14.0	15.2	16.5	17.9	19.5	20.9	22.4	23.4	24.2
-82.5°	8.2	8.9	9.6	10.3	11.1	12.1	13.2	14.2	15.2	15.9	16.6
-85°	5.9	6.2	6.5	6.9	7.3	8.2	9.1	10.0	11.0	11.6	12.2
-87.5°	4.3	4.3	4.4	4.4	4.4	5.2	6.1	7.0	7.8	8.1	8.4
-90°	2.2	2.2	2.2	2.2	2.2	1.9	1.7	1.4	1.1	1.1	1.1



REPORT NUMBER: P731439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	7.3	7.9	7.9	7.9	7.9	7.9	7.3	6.8	6.2	5.6	5.1
87.5°	1.1	1.1	0.6	0.0	0.6	1.1	1.1	1.1	1.1	1.1	1.4
85°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.6	1.9	2.1	2.1
82.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2
80°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2
77.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	2.0	2.2	2.5
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.6
72.5°	3.3	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.2	3.6
70°	4.4	4.5	4.0	3.4	4.0	4.5	4.4	4.4	4.3	4.4	4.9
67.5°	5.5	5.6	6.1	6.7	6.1	5.6	5.5	5.4	5.4	5.5	6.0
65°	7.3	7.7	7.3	6.7	7.3	7.7	7.3	6.9	6.5	6.5	6.9
62.5°	6.4	6.7	6.2	5.6	6.2	6.7	6.4	6.2	6.0	6.3	6.7
60°	5.3	5.6	5.6	5.6	5.6	5.6	5.3	5.1	4.9	5.2	5.7
57.5°	5.2	5.5	5.6	5.6	5.6	5.5	5.2	4.9	4.5	4.8	5.1
55°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.4	5.2	5.3	5.5
52.5°	7.6	7.7	7.9	7.9	7.9	7.7	7.6	7.3	7.0	6.8	6.6
50°	9.7	9.9	10.1	10.1	10.1	9.9	9.7	9.5	9.2	8.8	8.3
47.5°	13.4	13.4	13.4	13.5	13.4	13.4	13.4	13.1	12.7	12.1	11.2
45°	20.5	20.3	20.1	20.2	20.1	20.3	20.5	20.2	19.6	18.3	16.5
42.5°	33.4	33.5	33.4	33.7	33.4	33.5	33.4	32.5	31.7	29.5	26.7
40°	69.0	66.6	63.0	62.9	63.0	66.6	69.0	67.0	59.7	49.6	44.2
37.5°	143.7	146.2	145.9	148.3	145.9	146.2	143.7	136.7	122.6	97.5	87.1
35°	291.5	304.6	307.5	306.8	307.5	304.6	291.5	267.7	236.4	202.4	173.7
32.5°	480.1	497.5	502.4	509.1	502.4	497.5	480.1	459.0	410.6	355.6	310.2
30°	844.2	867.6	845.3	800.1	845.3	867.6	844.2	987.7	776.1	714.8	611.7
27.5°	3058.8	3171.0	2918.5	2826.4	2918.5	3171.0	3058.8	2793.0	2293.9	1910.5	1389.0
25°	6233.8	6729.9	7238.5	7193.4	7238.5	6729.9	6233.8	5772.6	4930.6	3846.7	2976.9
22.5°	10060.6	10563.3	10982.4	11126.7	10982.4	10563.3	10060.6	9016.4	7757.7	6278.1	4925.4
20°	15935.1	16914.3	17615.4	16868.2	17615.4	16914.3	15935.1	13998.0	11901.3	9582.0	7492.0
17.5°	25471.3	28420.0	29951.8	30919.1	29951.8	28420.0	25471.3	20857.2	17804.8	14368.2	11096.4
15°	39539.8	43986.7	46450.4	48081.8	46450.4	43986.7	39539.8	33650.2	27256.2	21892.7	16811.4
12.5°	55764.3	60612.8	62790.2	64567.3	62790.2	60612.8	55764.3	48492.6	39394.1	31347.6	24074.3
10°	71187.8	76425.9	80052.5	81937.4	80052.5	76425.9	71187.8	63716.6	54220.8	42946.8	31508.5
7.5°	85319.6	91727.2	95407.3	96578.8	95407.3	91727.2	85319.6	78194.7	67571.6	54157.6	40516.7
5°	99142.2	104859.3	109285.1	110288.6	109285.1	104859.3	99142.2	89774.9	78391.6	64125.6	47806.7
2.5°	109785.1	116636.8	120610.3	121811.5	120610.3	116636.8	109785.1	100210.3	87158.1	72541.7	53758.7
0°	114662.4	121041.1	125745.9	127433.3	125745.9	121041.1	114662.4	105261.8	92151.0	76437.5	56272.0
-2.5°	113642.2	119520.6	122888.3	123468.5	122888.3	119520.6	113642.2	105085.9	92159.8	76223.8	55989.0
-5°	110054.3	115455.3	118781.5	118876.7	118781.5	115455.3	110054.3	101541.3	88932.1	72910.9	53493.4
-7.5°	102173.3	107223.8	109542.7	110125.1	109542.7	107223.8	102173.3	94474.1	82615.1	66302.7	48152.6
-10°	94151.8	98837.4	101028.7	101271.2	101028.7	98837.4	94151.8	86976.6	73956.1	58800.2	41800.3
-12.5°	83761.5	88775.2	90963.0	91992.0	90963.0	88775.2	83761.5	74871.2	63285.6	49207.4	37570.4
-15°	68299.6	73147.7	75772.5	77710.7	75772.5	73147.7	68299.6	60186.8	49903.4	40416.4	31561.7
-17.5°	51732.2	55887.7	58474.4	60829.0	58474.4	55887.7	51732.2	44954.0	38801.6	32079.6	26204.5
-20°	36831.1	39477.5	40290.4	41559.2	40290.4	39477.5	36831.1	32627.7	28849.7	24143.7	20416.8



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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°	25868.4	27373.0	28326.1	28864.8	28326.1	27373.0	25868.4	23802.9	20767.4	17788.5	15234.4
-25°	17536.9	18580.5	18986.3	19454.1	18986.3	18580.5	17536.9	15992.5	14152.9	12805.0	11082.7
-27.5°	11747.0	12175.5	12468.1	12627.0	12468.1	12175.5	11747.0	11252.4	10124.8	9395.6	8053.9
-30°	9233.0	9624.8	9859.8	9934.4	9859.8	9624.8	9233.0	8729.2	8103.4	7278.1	6344.8
-32.5°	7148.3	7444.6	7602.9	7623.9	7602.9	7444.6	7148.3	6748.7	6232.4	5592.7	4849.2
-35°	5295.7	5565.5	5714.9	5704.4	5714.9	5565.5	5295.7	4948.2	4533.7	4039.2	3442.1
-37.5°	3649.2	3877.9	4018.2	4054.7	4018.2	3877.9	3649.2	3358.3	3020.2	2582.4	2199.1
-40°	2282.9	2450.9	2551.2	2564.5	2551.2	2450.9	2282.9	2064.2	1822.7	1527.1	1310.6
-42.5°	1310.5	1378.5	1416.7	1414.9	1416.7	1378.5	1310.5	1223.7	1124.8	994.4	884.5
-45°	921.0	936.3	944.9	946.2	944.9	936.3	921.0	900.9	870.3	833.5	793.6
-47.5°	823.2	837.6	845.3	846.2	845.3	837.6	823.2	804.9	779.6	748.2	713.6
-50°	735.8	752.9	762.2	764.2	762.2	752.9	735.8	715.2	689.5	657.3	621.8
-52.5°	641.0	652.2	656.0	654.1	656.0	652.2	641.0	627.6	611.1	588.5	563.9
-55°	593.9	603.1	607.1	608.0	607.1	603.1	593.9	584.3	574.1	555.5	533.8
-57.5°	582.5	590.8	593.3	593.4	593.3	590.8	582.5	574.0	565.2	546.2	526.2
-60°	577.0	587.3	589.3	587.7	589.3	587.3	577.0	566.4	555.6	535.2	510.9
-62.5°	541.7	554.9	559.0	558.5	559.0	554.9	541.7	526.3	508.9	481.7	450.2
-65°	423.9	433.6	438.6	440.5	438.6	433.6	423.9	411.9	397.7	377.3	352.2
-67.5°	301.5	308.2	310.4	310.2	310.4	308.2	301.5	292.9	282.3	267.9	249.9
-70°	196.6	201.8	202.3	201.2	202.3	201.8	196.6	190.2	182.7	173.6	163.0
-72.5°	120.7	124.3	123.9	122.5	123.9	124.3	120.7	116.5	111.6	106.3	100.4
-75°	69.4	71.2	70.7	69.7	70.7	71.2	69.4	67.3	64.8	61.8	58.2
-77.5°	40.5	42.3	42.6	42.7	42.6	42.3	40.5	38.6	36.6	34.5	31.9
-80°	25.0	25.7	25.8	25.8	25.8	25.7	25.0	24.2	23.4	22.4	20.9
-82.5°	17.3	17.9	18.0	18.0	18.0	17.9	17.3	16.6	15.9	15.2	14.2
-85°	12.8	13.5	13.5	13.5	13.5	13.5	12.8	12.2	11.6	11.0	10.0
-87.5°	8.7	9.0	9.0	9.0	9.0	9.0	8.7	8.4	8.1	7.8	7.0
-90°	1.1	1.1	0.5	0.0	0.5	1.1	1.1	1.1	1.1	1.1	1.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.5	4.0	3.4	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.5
87.5°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.1	3.4
85°	2.1	2.2	2.2	2.4	2.6	2.8	3.0	3.0	3.1	3.2	3.4
82.5°	2.2	2.2	2.2	2.5	2.8	3.1	3.4	3.4	3.4	3.4	3.4
80°	2.2	2.2	2.2	2.5	2.8	3.1	3.4	3.5	3.4	3.4	3.4
77.5°	2.7	2.8	2.9	2.9	3.0	3.2	3.5	3.7	3.9	4.0	4.0
75°	2.9	3.2	3.4	3.5	3.5	3.4	3.5	3.8	4.1	4.3	4.5
72.5°	3.9	4.1	4.3	4.3	4.2	4.2	4.4	4.6	4.7	4.6	4.5
70°	5.3	5.7	6.3	6.7	6.8	6.7	6.6	6.4	6.2	6.2	5.8
67.5°	6.4	6.8	7.9	9.0	9.8	10.1	10.0	9.4	8.9	8.5	7.6
65°	7.3	7.8	9.4	10.8	12.1	13.3	14.3	14.3	13.6	12.1	9.7
62.5°	7.2	7.8	8.9	10.3	12.1	15.1	18.5	19.8	19.6	17.1	13.4
60°	6.2	6.9	8.1	9.3	10.5	14.4	20.3	24.5	26.9	22.8	17.3
57.5°	5.4	6.0	7.0	8.3	9.7	14.1	20.4	27.9	32.6	26.7	21.1
55°	5.5	5.8	6.4	7.1	8.3	12.6	18.2	25.0	30.4	28.6	22.4
52.5°	6.6	6.7	6.7	6.6	7.7	10.5	14.6	20.8	24.1	23.6	21.6
50°	7.8	8.0	7.9	7.7	8.1	8.9	11.6	16.2	18.0	18.9	18.2
47.5°	10.9	10.8	10.0	9.6	9.9	9.8	10.6	11.9	14.5	14.8	15.0
45°	16.4	16.0	14.7	14.1	13.2	12.7	11.8	13.1	13.7	14.2	12.5
42.5°	25.8	24.1	22.4	21.5	19.7	18.0	16.5	16.9	16.6	15.9	15.5
40°	40.8	35.6	33.5	31.8	29.5	25.8	25.0	22.9	21.8	20.0	20.5
37.5°	72.0	55.4	51.9	44.8	41.6	39.4	36.7	33.0	28.6	30.5	30.3
35°	137.5	113.2	90.8	73.0	58.6	61.2	53.8	46.4	43.6	46.0	43.9
32.5°	242.4	240.7	176.5	136.5	119.8	102.4	84.3	65.6	72.4	70.8	62.4
30°	507.7	542.6	416.8	304.2	277.6	197.3	133.5	122.6	117.1	103.7	86.5
27.5°	1338.8	1195.6	979.3	769.6	566.8	407.2	263.3	194.7	174.9	150.9	123.0
25°	2603.3	2325.8	1845.5	1477.2	1148.8	703.0	450.6	318.5	249.2	209.3	172.4
22.5°	4029.9	3444.4	2797.1	2245.0	1748.0	1159.1	718.1	461.3	332.8	278.1	230.7
20°	5663.3	4644.6	3800.9	3077.2	2332.7	1586.4	1017.8	689.7	471.6	354.9	290.3
17.5°	8388.1	6147.9	5131.7	4103.5	3085.7	2130.0	1570.9	1051.2	621.7	435.1	349.4
15°	12061.2	9224.1	7271.3	5559.9	4214.0	3266.1	2361.2	1511.6	834.1	545.4	422.9
12.5°	18276.3	13569.9	10005.1	7684.8	6126.5	4704.5	3392.6	2193.7	1199.2	689.7	512.4
10°	24248.8	18170.9	13579.2	10521.0	8295.4	6337.1	4445.1	2803.6	1529.9	839.6	598.4
7.5°	30024.7	22513.8	16918.9	12932.9	9976.6	7505.9	5300.9	3365.4	1818.2	986.0	680.3
5°	34716.3	25671.0	18924.1	14118.6	11098.1	8526.0	6103.8	3892.4	2060.7	1124.7	757.5
2.5°	37521.0	27590.3	20443.6	14964.9	11891.5	9230.6	6686.2	4217.8	2174.0	1198.8	800.8
0°	38493.5	28569.2	20493.6	14997.1	11843.7	9298.3	6944.0	4322.1	2195.9	1244.0	838.4
-2.5°	38136.5	27885.0	20127.2	14617.4	11536.7	8910.1	6624.4	4341.0	2318.7	1290.8	867.0
-5°	36435.9	25976.6	18763.2	13739.0	10891.4	8453.1	6286.2	4249.7	2374.6	1312.7	889.2
-7.5°	33756.0	24043.9	17102.5	12645.3	10090.4	7908.9	5925.6	4063.0	2345.8	1297.4	892.9
-10°	30266.8	22235.0	16201.1	12320.8	9613.1	7318.9	5513.5	3800.7	2226.4	1253.6	889.7
-12.5°	27732.2	20424.3	15106.9	11976.8	9489.7	7197.2	5271.5	3493.8	2005.9	1179.0	879.5
-15°	24335.6	18565.7	14413.9	11516.7	9183.2	6909.8	4960.5	3114.7	1664.0	1062.7	862.1
-17.5°	20596.5	16450.1	13169.9	10418.1	8228.1	6397.3	4449.1	2677.8	1417.8	942.3	816.9
-20°	16595.8	13826.8	11341.2	8975.6	6912.1	5180.6	3606.9	2090.1	1205.7	880.5	766.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	13218.0	11132.1	9004.0	7130.7	5425.3	3925.2	2595.0	1464.9	942.1	812.4	707.5
-25°	9878.5	8379.9	6679.1	5370.8	3973.1	2674.2	1690.1	1120.9	845.8	741.3	642.0
-27.5°	7231.7	6011.7	4923.2	3891.2	2777.6	1809.9	1170.3	845.7	758.6	669.3	577.2
-30°	5440.8	4569.8	3643.2	2744.1	1911.2	1215.3	856.3	754.1	681.8	603.4	521.6
-32.5°	4061.1	3323.6	2546.6	1843.1	1243.6	900.4	759.4	671.7	613.6	545.4	482.6
-35°	2804.1	2223.9	1617.3	1197.5	880.5	772.7	693.6	622.9	553.3	494.2	448.1
-37.5°	1755.8	1343.3	1077.9	842.2	772.7	704.8	641.5	571.1	501.5	457.8	417.9
-40°	1112.1	888.9	822.3	759.8	704.3	649.9	582.3	514.9	468.4	424.7	389.9
-42.5°	840.1	789.9	740.1	692.9	641.3	580.1	521.2	477.2	435.8	398.2	368.5
-45°	754.7	714.1	670.9	620.2	565.4	520.6	478.9	441.4	405.6	377.9	349.4
-47.5°	674.1	632.5	588.1	550.0	512.3	475.4	441.7	408.4	386.5	360.6	324.3
-50°	589.5	561.8	530.9	498.2	468.6	437.8	414.5	393.3	367.8	335.1	296.7
-52.5°	538.2	515.5	489.5	460.1	438.8	421.1	400.8	372.2	342.4	303.5	261.9
-55°	508.6	488.9	470.4	450.1	426.1	400.4	373.8	341.9	303.7	264.7	226.9
-57.5°	506.2	483.9	457.0	428.4	398.0	365.6	331.4	296.4	261.2	225.7	190.9
-60°	485.1	458.0	421.3	384.4	347.8	314.0	281.3	248.9	217.1	185.3	154.3
-62.5°	419.4	389.9	355.6	320.5	287.5	257.2	227.5	197.7	170.0	143.6	118.6
-65°	326.3	300.0	272.5	245.8	218.8	191.7	166.3	145.3	125.8	105.4	84.5
-67.5°	231.1	211.6	190.4	169.7	152.4	135.6	119.2	102.1	88.2	76.2	64.1
-70°	151.6	139.6	126.7	113.5	102.4	92.5	82.0	71.5	61.5	52.5	43.1
-72.5°	94.1	87.3	80.1	72.5	64.8	57.9	51.0	43.8	36.5	29.0	23.5
-75°	54.1	49.4	44.3	39.5	34.3	28.9	25.6	23.4	21.1	18.9	16.6
-77.5°	29.2	26.6	24.3	22.5	20.7	18.6	16.6	15.1	14.2	13.3	12.3
-80°	19.5	17.9	16.5	15.2	14.0	12.7	11.6	11.0	10.4	9.9	9.5
-82.5°	13.2	12.1	11.1	10.3	9.6	8.9	8.2	8.0	7.7	7.4	7.1
-85°	9.1	8.2	7.3	6.9	6.5	6.2	5.9	5.8	5.7	5.5	5.4
-87.5°	6.1	5.2	4.4	4.4	4.4	4.3	4.3	4.3	4.4	4.4	4.5
-90°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.1	3.4



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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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.5	4.5	4.5	4.5
85°	3.5	3.6	3.6	3.6	3.7	4.0	4.2	4.5	4.5	4.5	4.5
82.5°	3.7	3.9	4.1	4.2	4.2	4.2	4.3	4.5	4.5	4.5	4.5
80°	3.7	4.0	4.3	4.5	4.5	4.5	4.5	4.5	4.7	4.7	4.7
77.5°	4.0	4.1	4.3	4.5	4.5	4.5	4.5	4.6	4.8	4.9	4.9
75°	4.5	4.4	4.4	4.5	4.6	4.5	4.5	4.6	4.9	5.1	5.2
72.5°	4.5	4.5	4.5	4.6	4.8	4.8	4.7	4.6	4.9	5.1	5.4
70°	5.3	4.7	4.5	4.7	5.0	5.2	5.1	5.0	4.9	5.2	5.4
67.5°	6.7	6.0	5.4	4.9	5.0	5.3	5.5	5.3	5.2	5.2	5.5
65°	8.5	7.5	6.6	5.8	5.3	5.3	5.6	5.6	5.4	5.4	5.5
62.5°	10.7	9.0	7.8	6.7	5.8	5.5	5.6	5.6	5.6	5.5	5.5
60°	13.1	10.5	9.0	7.8	6.6	5.7	5.6	5.6	5.6	5.6	5.6
57.5°	15.7	11.7	10.0	8.8	7.6	6.2	5.6	5.6	5.6	5.6	5.6
55°	17.4	13.2	11.1	9.5	8.4	7.2	5.9	5.6	5.6	5.6	5.6
52.5°	17.2	14.3	12.2	10.2	8.9	8.0	6.7	5.6	5.6	5.6	5.6
50°	15.5	14.6	12.9	10.9	9.3	8.3	7.3	6.1	5.6	5.6	5.6
47.5°	14.9	14.8	13.4	11.4	9.6	8.7	7.7	6.6	5.6	5.6	5.6
45°	14.6	15.3	14.1	11.9	9.9	9.0	8.0	7.0	6.0	5.6	5.6
42.5°	14.9	16.1	15.3	12.5	10.9	9.3	8.3	7.3	6.3	5.7	5.6
40°	19.1	17.3	16.9	15.3	12.3	9.6	8.6	7.6	6.5	5.9	5.7
37.5°	24.7	21.1	18.7	20.5	14.9	11.1	8.8	7.8	6.9	6.2	5.8
35°	36.5	27.3	25.7	27.2	21.2	12.9	9.1	8.0	7.3	6.5	6.0
32.5°	51.3	40.9	39.0	35.4	29.1	14.8	10.1	8.5	7.6	6.8	6.1
30°	73.1	65.8	55.7	45.3	38.2	22.1	12.2	9.2	8.0	7.1	6.3
27.5°	106.2	93.6	76.4	60.5	47.7	30.9	14.9	10.1	8.3	7.4	6.6
25°	144.4	125.0	102.7	79.1	58.3	42.9	17.8	11.2	8.9	7.7	6.8
22.5°	191.0	158.7	130.8	99.6	74.3	56.5	24.2	13.6	9.6	8.0	7.0
20°	239.6	194.0	161.0	122.5	93.5	70.0	34.6	16.0	10.5	8.2	7.2
17.5°	290.2	239.1	197.3	149.5	113.2	84.5	45.8	18.4	11.4	8.4	7.5
15°	358.4	296.7	237.0	178.2	132.0	99.7	57.4	20.8	12.3	8.6	7.7
12.5°	430.4	356.8	279.1	207.8	149.8	115.3	69.1	23.1	13.3	9.2	7.9
10°	501.8	418.2	322.6	237.7	166.7	131.0	80.6	26.4	15.5	10.3	8.1
7.5°	571.8	479.7	366.3	267.2	184.7	151.4	99.6	31.7	17.9	11.3	8.4
5°	635.2	534.4	409.4	303.3	213.5	176.6	119.6	37.1	20.2	12.4	8.6
2.5°	675.4	577.0	449.8	337.9	241.5	200.8	138.7	42.3	22.5	13.5	8.8
0°	711.4	614.7	486.6	369.7	268.6	223.6	156.2	47.2	24.7	14.6	9.0
-2.5°	734.2	636.9	506.7	395.0	296.6	248.7	177.4	61.1	32.7	18.8	10.7
-5°	753.2	654.2	523.6	417.5	323.2	271.9	195.6	74.1	40.4	22.9	12.4
-7.5°	760.2	657.7	532.3	435.3	348.5	293.1	210.3	86.1	47.5	26.6	13.9
-10°	760.3	650.3	529.5	435.0	354.6	302.1	219.2	96.6	53.8	29.8	15.3
-12.5°	754.9	638.0	524.1	431.7	355.7	299.6	212.7	103.5	59.1	32.5	16.5
-15°	743.7	620.8	516.4	425.4	354.9	295.6	204.8	108.0	63.2	34.8	17.3
-17.5°	720.8	598.5	506.6	416.1	352.2	290.1	195.7	111.0	66.3	36.7	18.3
-20°	667.1	566.5	494.5	403.6	347.5	283.2	185.8	112.4	68.1	37.8	19.2



REPORT NUMBER: P731439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	610.5	529.6	463.9	395.6	339.5	274.9	175.5	112.1	68.7	38.0	19.8
-25°	552.5	491.9	430.8	376.8	328.1	259.4	169.4	110.1	68.0	37.4	20.0
-27.5°	505.7	454.3	398.9	358.1	309.5	244.4	166.3	109.0	66.4	35.8	19.9
-30°	463.7	419.3	375.7	338.7	290.5	223.1	160.9	106.1	64.5	34.7	19.3
-32.5°	430.9	387.0	355.2	317.1	267.1	201.5	149.3	101.4	61.3	34.0	18.8
-35°	404.6	365.1	335.0	295.6	242.0	184.4	135.0	94.7	56.6	32.6	18.2
-37.5°	378.8	348.4	311.8	271.5	216.9	165.9	121.8	84.3	50.6	30.7	17.1
-40°	360.6	329.0	291.0	244.4	194.2	146.0	107.6	74.2	46.7	28.2	15.6
-42.5°	341.4	305.6	264.7	217.9	171.0	129.2	92.8	63.6	42.2	25.8	13.8
-45°	315.3	278.9	235.7	191.6	147.2	111.5	80.5	53.3	37.3	23.2	12.2
-47.5°	286.7	247.2	206.7	164.8	126.9	94.1	67.8	47.3	32.0	20.0	11.3
-50°	252.7	215.7	177.7	141.1	106.4	79.6	56.1	41.0	27.5	16.1	10.3
-52.5°	221.4	184.8	150.8	117.9	89.3	64.7	48.6	34.4	22.7	13.7	9.0
-55°	189.7	155.5	124.6	96.7	72.0	54.6	40.7	28.5	17.5	11.9	7.7
-57.5°	157.9	126.6	100.1	75.9	58.7	45.5	33.2	22.2	14.4	9.9	7.5
-60°	125.3	99.4	75.6	60.8	48.3	36.3	25.5	16.7	11.8	8.1	7.3
-62.5°	94.5	73.5	60.6	48.9	37.6	27.1	18.2	13.4	9.1	7.8	7.0
-65°	70.9	58.5	47.2	36.5	26.5	18.8	14.2	9.9	8.2	7.5	6.8
-67.5°	52.8	42.4	32.7	23.6	18.4	14.2	10.0	8.5	7.8	7.1	6.8
-70°	34.0	25.5	20.7	17.1	13.4	10.1	8.9	8.1	7.5	7.0	6.8
-72.5°	20.7	17.8	14.9	11.9	10.4	9.2	8.3	7.7	7.2	6.9	6.7
-75°	14.1	12.6	11.4	10.2	9.1	8.3	7.7	7.3	6.9	6.7	6.5
-77.5°	11.3	10.2	9.3	8.6	8.0	7.5	7.1	6.8	6.6	6.4	6.1
-80°	8.8	8.3	7.8	7.3	7.0	6.7	6.5	6.4	6.2	6.0	5.8
-82.5°	6.8	6.6	6.5	6.4	6.3	6.1	6.0	5.9	5.8	5.6	5.5
-85°	5.5	5.5	5.6	5.8	5.7	5.6	5.5	5.4	5.3	5.3	5.2
-87.5°	4.7	4.9	5.0	5.1	5.1	5.0	5.0	5.0	4.9	4.9	4.8
-90°	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.5	4.5	4.5	4.5



REPORT NUMBER: P731439 (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	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.8	4.6	4.5	4.5	4.5	4.5	4.5
75°	5.1	4.8	4.5	4.5	4.5	4.5	4.5
72.5°	5.4	5.0	4.7	4.5	4.5	4.5	4.5
70°	5.6	5.3	4.9	4.5	4.5	4.5	4.5
67.5°	5.6	5.5	5.1	4.7	4.5	4.5	4.5
65°	5.6	5.6	5.3	4.8	4.5	4.5	4.5
62.5°	5.6	5.6	5.4	4.9	4.5	4.5	4.5
60°	5.6	5.6	5.6	5.0	4.5	4.5	4.5
57.5°	5.6	5.6	5.6	5.2	4.6	4.5	4.5
55°	5.6	5.6	5.6	5.3	4.7	4.5	4.5
52.5°	5.6	5.6	5.6	5.4	4.7	4.5	4.5
50°	5.6	5.6	5.6	5.5	4.8	4.5	4.5
47.5°	5.6	5.6	5.6	5.6	4.9	4.5	4.5
45°	5.6	5.6	5.6	5.6	5.0	4.5	4.5
42.5°	5.6	5.6	5.6	5.6	5.0	4.5	4.5
40°	5.6	5.6	5.6	5.6	5.1	4.5	4.5
37.5°	5.6	5.6	5.6	5.6	5.1	4.5	4.5
35°	5.6	5.6	5.6	5.6	5.2	4.5	4.5
32.5°	5.6	5.6	5.6	5.6	5.3	4.5	4.5
30°	5.7	5.6	5.6	5.6	5.3	4.5	4.5
27.5°	5.9	5.6	5.6	5.6	5.4	4.5	4.5
25°	6.0	5.6	5.6	5.6	5.4	4.5	4.5
22.5°	6.1	5.6	5.6	5.6	5.4	4.5	4.5
20°	6.3	5.7	5.6	5.6	5.5	4.5	4.5
17.5°	6.4	5.8	5.6	5.6	5.5	4.5	4.5
15°	6.5	5.9	5.6	5.6	5.5	4.5	4.5
12.5°	6.6	6.0	5.6	5.6	5.5	4.5	4.5
10°	6.6	6.2	5.6	5.6	5.6	4.5	4.5
7.5°	6.7	6.3	5.6	5.6	5.6	4.5	4.5
5°	6.7	6.4	5.6	5.6	5.6	4.5	4.5
2.5°	6.7	6.6	5.6	5.6	5.6	4.5	4.5
0°	6.7	6.7	5.6	5.6	5.6	4.5	4.5
-2.5°	7.3	6.7	5.6	5.6	5.6	4.5	4.5
-5°	7.9	6.7	5.6	5.6	5.6	4.5	4.5
-7.5°	8.4	6.7	5.6	5.6	5.6	4.5	4.5
-10°	8.9	6.6	5.6	5.6	5.6	4.5	4.5
-12.5°	9.3	6.6	5.6	5.6	5.5	4.5	4.5
-15°	9.5	6.5	5.6	5.6	5.5	4.5	4.5
-17.5°	9.7	6.4	5.6	5.6	5.5	4.5	4.5
-20°	9.9	6.4	5.6	5.6	5.5	4.5	4.5



REPORT NUMBER: P731439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	10.3	6.3	5.6	5.6	5.4	4.5	4.5
-25°	10.5	6.4	5.6	5.6	5.4	4.5	4.5
-27.5°	10.4	6.5	5.6	5.6	5.4	4.5	4.5
-30°	10.1	6.5	5.6	5.6	5.3	4.5	4.5
-32.5°	9.6	6.4	5.7	5.6	5.3	4.5	4.5
-35°	9.3	6.3	5.7	5.6	5.2	4.5	4.5
-37.5°	9.2	6.2	5.7	5.6	5.1	4.5	4.5
-40°	8.9	6.2	5.8	5.6	5.1	4.5	4.5
-42.5°	8.4	6.3	5.8	5.6	5.0	4.5	4.5
-45°	7.9	6.3	5.8	5.6	5.0	4.5	4.5
-47.5°	7.1	6.3	5.9	5.7	4.9	4.5	4.5
-50°	7.0	6.2	5.9	5.6	4.8	4.5	4.5
-52.5°	6.9	6.2	5.9	5.5	4.7	4.5	4.5
-55°	6.8	6.2	6.0	5.4	4.7	4.5	4.5
-57.5°	6.6	6.2	6.0	5.3	4.6	4.5	4.5
-60°	6.5	6.2	6.0	5.2	4.5	4.5	4.5
-62.5°	6.5	6.3	5.9	5.1	4.5	4.5	4.5
-65°	6.6	6.3	5.7	5.0	4.5	4.5	4.5
-67.5°	6.6	6.2	5.5	4.9	4.5	4.5	4.5
-70°	6.6	6.0	5.4	4.8	4.5	4.5	4.5
-72.5°	6.4	5.8	5.2	4.7	4.5	4.5	4.5
-75°	6.1	5.6	5.0	4.7	4.5	4.5	4.5
-77.5°	5.9	5.4	5.0	4.7	4.5	4.5	4.5
-80°	5.6	5.2	4.9	4.6	4.5	4.5	4.5
-82.5°	5.3	5.0	4.8	4.6	4.5	4.5	4.5
-85°	5.1	4.9	4.7	4.6	4.5	4.5	4.5
-87.5°	4.8	4.7	4.6	4.5	4.5	4.5	4.5
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5

(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

