

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: P731330 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-1S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731330 (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-40-80-1S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

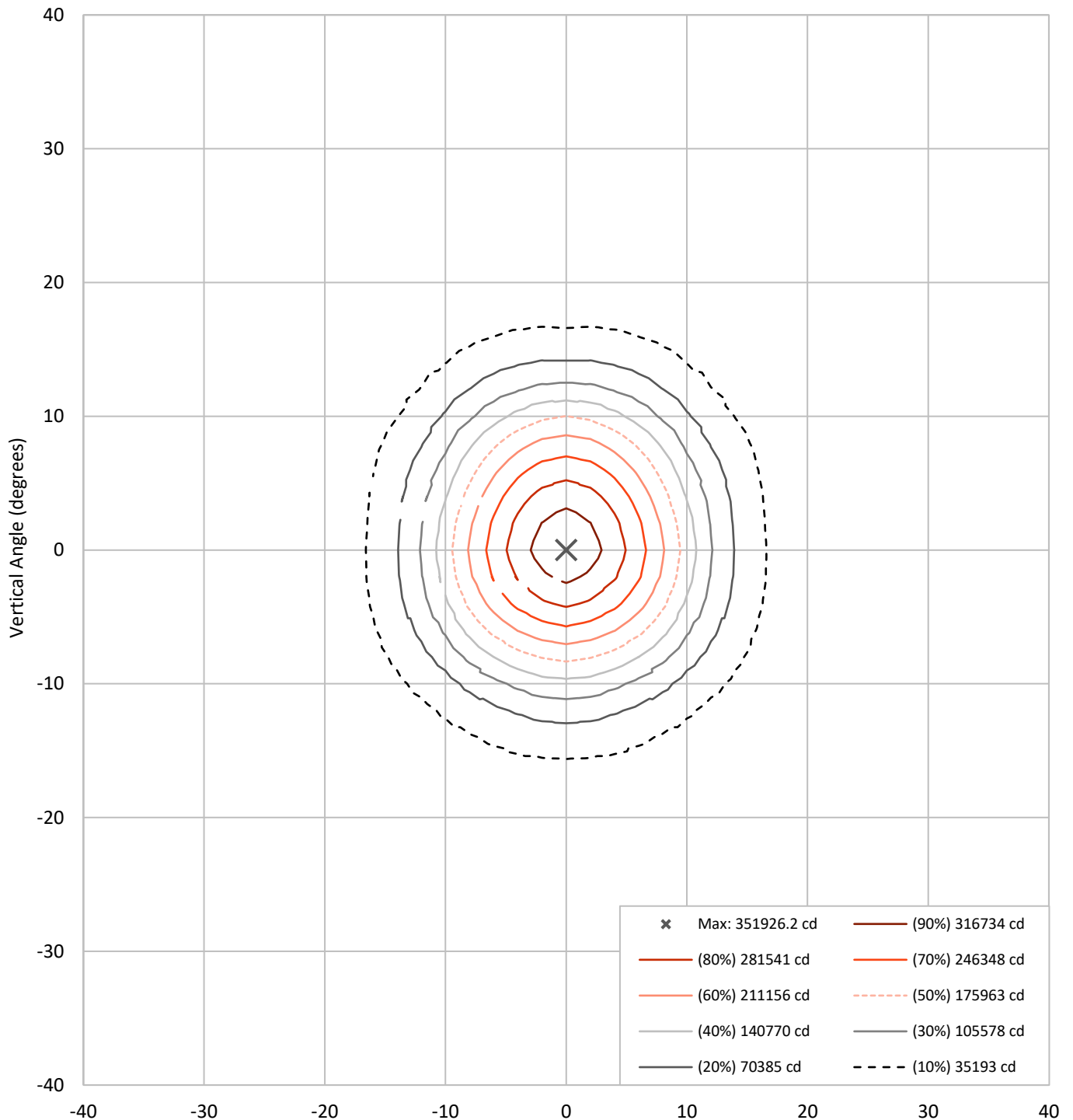
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	42390 lumens	Max Intensity:	351926.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.5 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:	19778 lumens	Field Lumens:	35922.2 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

REPORT NUMBER: P731330 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV1

Iso-Candela Plot





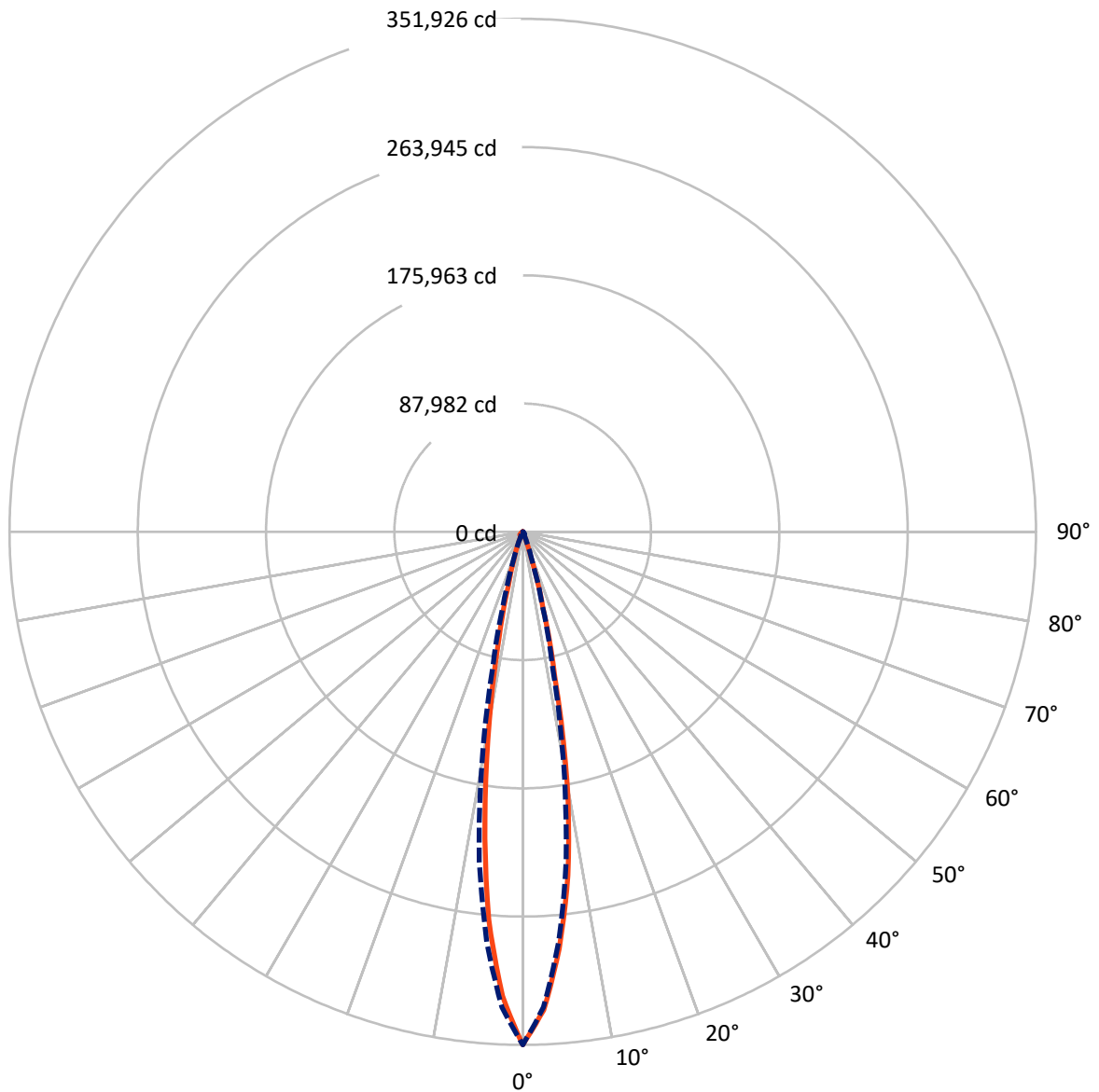
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Lumen Table

90	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.1								
80	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.4	0.3	0.1	0.0		
70	0.1	0.0	0.1	0.3	0.4	0.2	0.2	0.1	0.1	0.2	0.2	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	0.2	0.2	0.3	0.5	0.7	0.5	0.5	0.7	0.5	0.3	0.2	0.2	0.1	0.1	
40		0.2	0.5	1.2	2.3	3.4	4.8	5.9	5.9	4.8	3.4	2.3	1.2	0.5	0.2		
30	0.1	0.3	2.3	7.3	17.3	23.5	37.6	67.2	67.2	37.6	23.5	17.3	7.3	2.3	0.3	0.1	
20		0.7	4.9	21.2	42.6	56.4	412.3	1661.5	1661.5	412.3	56.4	42.6	21.2	4.9	0.7		
10	0.2	1.1	6.3	28.5	47.4	103.6	1544.6	6670.4	6670.4	1544.6	103.6	47.4	28.5	6.3	1.1	0.2	
0		1.4	6.7	28.0	47.3	100.6	1477.7	6179.3	6179.3	1477.7	100.6	47.3	28.0	6.7	1.4		
-10	0.3	1.7	6.4	22.4	43.6	55.1	329.1	1233.7	1233.7	329.1	55.1	43.6	22.4	6.4	1.7	0.3	
-20		1.7	6.2	15.6	43.2	54.2	61.3	105.9	105.9	61.3	54.2	43.2	15.6	6.2	1.7		
-30	0.3	1.5	5.7	11.0	30.7	63.5	74.4	76.7	76.7	74.4	63.5	30.7	11.0	5.7	1.5	0.3	
-40		1.1	4.3	9.7	16.2	29.2	53.0	71.9	71.9	53.0	29.2	16.2	9.7	4.3	1.1		
-50	0.2	0.5	2.5	6.5	12.4	18.1	22.7	25.6	25.6	22.7	18.1	12.4	6.5	2.5	0.5	0.2	
-60		0.2	0.8	2.6	5.3	8.7	12.1	14.1	14.1	12.1	8.7	5.3	2.6	0.8	0.2		
-70	0.1	0.5	1.5	4.5	9.5	14.5	19.5	24.5	24.5	19.5	14.5	9.5	4.5	1.5	0.5	0.1	
-80		0.7	1.9	4.4	6.0	4.4	1.9	0.7	0.1								
-90	0.1	0.7	1.9	4.4	6.0	4.4	1.9	0.7	0.1								

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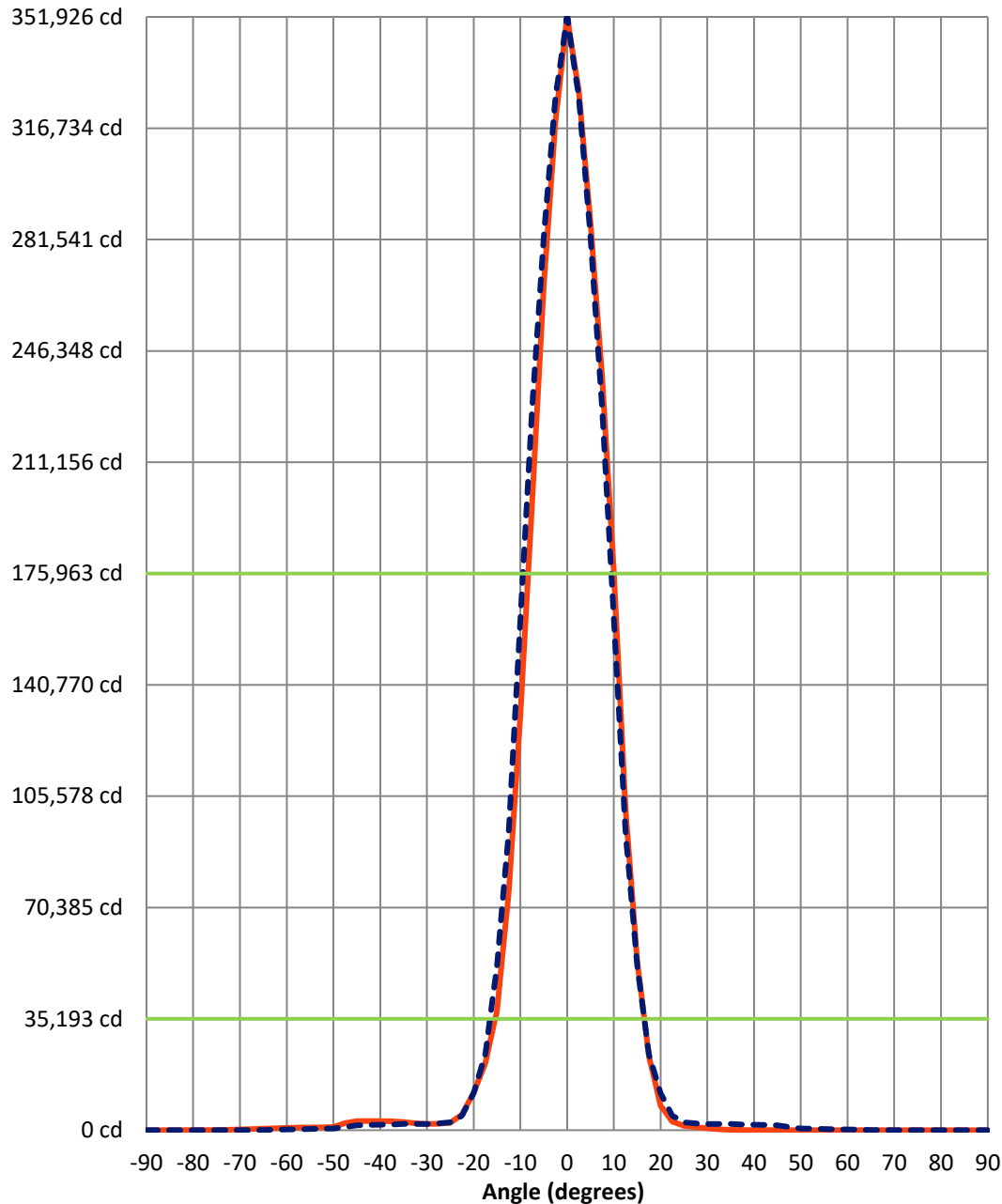
Luminous Intensity Polar Plot



— 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: 19778
 Efficiency: 46.7%

Field:
 H Angle: 33°
 V Angle: 31.9°
 Lumens: 35922.2
 Efficiency: 84.7%

Spill:
 Lumens: 6467.8
 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°	2.5	2.5	2.5	2.9	3.4	3.8	4.2	4.6	5.1	5.5	5.9
87.5°	2.5	2.5	2.5	2.3	2.2	2.0	1.9	1.9	1.8	1.8	1.7
85°	2.5	2.5	2.5	2.4	2.2	2.2	2.1	2.1	2.0	1.9	1.7
82.5°	2.5	2.6	2.5	2.4	2.3	2.3	2.3	2.2	2.1	2.0	1.9
80°	2.5	2.6	2.5	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.3
77.5°	2.5	2.6	2.5	2.4	2.4	2.6	2.8	2.8	2.7	2.7	2.5
75°	2.5	2.6	2.5	2.5	2.5	2.8	3.0	3.0	3.0	2.8	2.6
72.5°	2.5	2.6	2.5	2.5	2.7	2.9	3.2	3.2	3.0	2.8	2.6
70°	2.5	2.7	2.5	2.5	2.8	3.1	3.4	3.3	3.1	2.8	2.9
67.5°	2.5	2.7	2.6	2.6	3.0	3.3	3.4	3.3	3.1	3.2	3.3
65°	2.5	2.7	2.6	2.7	3.1	3.4	3.5	3.3	3.4	3.5	3.6
62.5°	2.5	2.7	2.6	2.8	3.3	3.5	3.5	3.5	3.7	3.8	3.7
60°	2.5	2.8	2.6	2.9	3.4	3.6	3.6	3.7	3.9	4.0	3.9
57.5°	2.5	2.8	2.7	3.0	3.5	3.6	3.7	4.0	4.2	4.2	4.2
55°	2.5	2.8	2.8	3.1	3.6	3.7	4.0	4.2	4.5	4.5	4.6
52.5°	2.5	2.8	2.9	3.2	3.6	3.8	4.2	4.5	4.8	4.9	5.0
50°	2.5	2.9	3.0	3.3	3.7	4.0	4.4	4.8	5.1	5.2	5.8
47.5°	2.5	2.9	3.0	3.4	3.8	4.2	4.6	5.1	5.4	5.6	6.5
45°	2.5	2.9	3.1	3.5	3.9	4.3	4.9	5.4	5.7	6.2	7.3
42.5°	2.5	2.9	3.2	3.6	4.0	4.5	5.1	5.7	6.0	6.8	8.6
40°	2.5	3.0	3.3	3.7	4.1	4.7	5.4	6.0	6.4	7.3	9.9
37.5°	2.5	3.0	3.4	3.8	4.3	4.8	5.7	6.2	6.9	8.1	11.2
35°	2.5	3.0	3.4	3.9	4.4	5.0	6.0	6.5	7.5	9.3	12.2
32.5°	2.5	3.1	3.5	4.0	4.5	5.3	6.3	6.7	8.0	10.5	13.2
30°	2.5	3.1	3.6	4.1	4.6	5.5	6.5	7.0	8.6	11.6	14.4
27.5°	2.5	3.1	3.6	4.2	4.7	5.7	6.7	7.5	9.3	12.7	15.8
25°	2.5	3.1	3.7	4.3	4.9	5.9	6.9	7.9	10.2	13.8	17.4
22.5°	2.5	3.2	3.8	4.4	5.0	6.2	7.1	8.4	11.0	15.0	19.9
20°	2.5	3.2	3.8	4.5	5.1	6.3	7.3	8.8	11.8	16.3	22.5
17.5°	2.5	3.2	3.9	4.6	5.3	6.4	7.4	9.2	12.5	17.6	25.3
15°	2.5	3.3	3.9	4.7	5.4	6.6	7.6	9.6	13.1	18.9	28.2
12.5°	2.5	3.3	4.0	4.7	5.5	6.6	7.7	9.9	13.7	20.3	31.1
10°	2.5	3.3	4.0	4.8	5.6	6.7	7.9	10.2	14.3	21.5	34.1
7.5°	2.5	3.3	4.1	4.9	5.7	6.7	8.1	10.5	14.8	22.7	36.9
5°	2.5	3.4	4.1	5.0	5.7	6.8	8.2	10.7	15.3	23.8	39.5
2.5°	2.5	3.4	4.2	5.0	5.8	6.8	8.4	10.9	15.8	24.7	42.0
0°	2.5	3.4	4.2	5.1	5.9	6.8	8.5	11.0	16.1	25.5	44.1
-2.5°	2.5	3.4	4.2	5.2	6.0	7.2	9.3	13.1	20.7	33.6	56.7
-5°	2.5	3.4	4.3	5.2	6.2	7.5	10.0	15.1	25.1	41.4	68.7
-7.5°	2.5	3.4	4.3	5.2	6.3	7.9	10.7	17.0	29.1	48.7	79.9
-10°	2.5	3.5	4.3	5.3	6.4	8.2	11.4	18.7	32.8	55.3	89.9
-12.5°	2.5	3.5	4.4	5.3	6.5	8.4	11.9	20.2	35.9	61.0	98.3
-15°	2.5	3.5	4.4	5.3	6.6	8.7	12.4	21.3	38.9	66.2	105.2
-17.5°	2.5	3.5	4.4	5.3	6.7	8.9	12.8	22.6	41.9	70.4	110.5
-20°	2.5	3.5	4.4	5.4	6.7	9.0	13.2	23.9	44.0	73.5	114.1



REPORT NUMBER: P731330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.5	3.5	4.4	5.4	6.8	9.1	13.7	24.6	45.3	75.6	116.0
-25°	2.5	3.5	4.4	5.4	6.8	9.2	13.9	24.8	45.7	76.4	115.9
-27.5°	2.5	3.5	4.4	5.4	6.7	9.2	13.9	24.3	45.2	76.4	116.4
-30°	2.5	3.5	4.4	5.4	6.7	9.2	13.6	23.2	44.4	75.6	115.5
-32.5°	2.5	3.4	4.4	5.4	6.7	9.1	13.0	22.6	43.1	73.5	112.9
-35°	2.5	3.4	4.4	5.3	6.7	9.0	12.7	21.9	40.8	70.1	108.5
-37.5°	2.5	3.4	4.4	5.3	6.6	8.9	12.5	20.8	37.5	65.2	101.6
-40°	2.5	3.4	4.4	5.3	6.5	8.8	12.2	19.2	33.1	60.2	93.6
-42.5°	2.5	3.4	4.4	5.3	6.5	8.6	11.9	17.2	29.9	53.6	84.1
-45°	2.5	3.3	4.3	5.3	6.4	8.5	11.4	15.6	27.1	46.0	73.4
-47.5°	2.5	3.3	4.3	5.3	6.4	8.2	10.9	14.9	23.7	37.5	63.7
-50°	2.5	3.3	4.3	5.2	6.4	8.0	10.5	14.1	19.6	32.8	52.9
-52.5°	2.5	3.2	4.2	5.2	6.3	7.7	10.1	13.3	17.5	27.5	41.7
-55°	2.5	3.2	4.2	5.1	6.2	7.5	9.6	12.3	16.3	21.8	35.0
-57.5°	2.5	3.2	4.1	5.0	6.1	7.4	9.1	11.7	15.0	19.2	27.7
-60°	2.5	3.1	4.1	4.9	6.0	7.2	8.6	11.0	13.8	17.5	21.8
-62.5°	2.5	3.1	4.0	4.8	5.8	7.0	8.4	10.3	12.9	15.8	19.7
-65°	2.5	3.0	3.9	4.7	5.6	6.8	8.1	9.6	12.1	14.6	17.5
-67.5°	2.5	3.0	3.8	4.5	5.4	6.5	7.8	9.3	11.2	13.6	16.0
-70°	2.5	2.9	3.6	4.4	5.2	6.2	7.4	8.8	10.5	12.5	14.8
-72.5°	2.5	2.9	3.5	4.2	4.9	5.8	6.9	8.3	9.9	11.6	13.6
-75°	2.5	2.8	3.4	4.1	4.7	5.4	6.4	7.7	9.2	10.7	12.4
-77.5°	2.5	2.8	3.2	3.9	4.4	5.0	5.8	7.0	8.4	9.7	11.2
-80°	2.5	2.7	3.1	3.7	4.2	4.7	5.2	6.4	7.6	8.9	10.1
-82.5°	2.5	2.7	2.9	3.5	4.0	4.5	4.9	5.8	6.8	8.0	9.1
-85°	2.5	2.6	2.8	3.3	3.8	4.2	4.7	5.4	6.2	7.1	8.1
-87.5°	2.5	2.6	2.6	3.1	3.6	4.0	4.4	5.0	5.6	6.3	7.0
-90°	2.5	2.5	2.5	2.3	2.1	1.9	1.7	1.7	1.7	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	5.9	5.9	5.9	5.9	6.1	6.4	6.6	6.8	7.0	7.2	7.4
87.5°	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8	0.8	0.8	0.8
85°	1.7	1.7	1.7	1.7	1.5	1.4	1.3	1.2	1.1	1.0	0.9
82.5°	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.5	1.4	1.3
80°	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.7	1.7	1.7	1.8
77.5°	2.4	2.3	2.3	2.4	2.4	2.2	2.2	2.1	2.2	2.4	2.5
75°	2.5	2.5	2.6	2.5	2.5	2.4	2.5	2.7	2.8	2.8	2.7
72.5°	2.6	2.8	2.7	2.6	2.7	2.9	3.1	3.3	3.7	4.2	4.6
70°	3.0	3.1	3.0	3.0	3.2	3.6	4.3	5.3	6.2	7.3	8.8
67.5°	3.3	3.2	3.3	3.5	4.1	4.9	6.0	9.4	13.3	15.0	15.5
65°	3.4	3.4	3.7	4.3	5.0	7.7	11.4	16.1	20.4	20.9	20.2
62.5°	3.4	3.7	4.3	5.5	8.0	11.6	15.7	20.1	25.0	25.2	22.1
60°	3.8	4.1	5.5	7.9	10.8	14.1	18.5	22.0	26.1	28.0	21.4
57.5°	4.2	5.0	7.1	10.0	13.0	15.4	17.8	21.4	23.6	24.0	17.7
55°	4.9	6.0	8.8	12.1	14.2	13.7	15.6	17.6	18.5	17.2	12.3
52.5°	5.9	7.3	10.7	13.5	14.0	12.8	12.8	13.8	12.8	11.0	9.6
50°	6.8	9.4	12.5	14.3	13.9	12.2	10.3	10.2	9.8	9.2	8.3
47.5°	8.4	11.4	14.1	15.1	13.4	11.6	9.4	9.1	9.0	8.7	7.9
45°	10.1	13.0	15.7	14.7	13.0	11.3	10.4	9.3	9.3	9.4	9.9
42.5°	11.7	14.2	15.6	14.3	13.2	12.7	12.5	11.2	11.1	13.4	14.2
40°	12.8	15.3	15.6	15.4	14.2	15.4	15.7	15.9	16.6	19.1	20.3
37.5°	13.7	15.7	16.7	18.3	17.2	19.1	20.0	29.2	30.4	25.7	35.2
35°	14.4	16.5	20.8	25.4	26.9	23.9	36.1	48.8	53.2	50.3	61.1
32.5°	15.2	17.7	26.3	37.3	47.4	44.9	56.7	78.8	92.8	100.0	108.6
30°	16.7	22.8	34.9	52.5	78.6	94.3	95.2	118.6	144.5	190.4	231.8
27.5°	19.4	29.6	49.5	81.4	121.6	154.3	160.4	175.5	234.7	321.6	431.1
25°	22.4	45.9	66.3	120.7	179.9	216.6	227.3	253.0	355.8	555.3	663.4
22.5°	30.7	67.8	94.7	166.4	245.2	276.9	299.2	392.6	578.2	841.9	923.1
20°	46.4	93.0	129.9	205.6	311.1	336.5	370.0	570.3	867.8	1087.4	1197.7
17.5°	65.0	118.6	165.2	244.4	337.2	384.1	455.1	773.7	1167.0	1324.6	1439.4
15°	85.7	144.1	195.7	278.5	360.3	415.8	588.5	1010.3	1420.0	1550.5	1662.8
12.5°	107.8	169.4	222.0	308.1	383.1	445.2	709.9	1176.5	1541.7	1726.2	1870.9
10°	130.7	194.3	244.6	333.5	405.2	472.3	823.5	1319.0	1603.2	1755.9	1915.7
7.5°	144.8	210.2	261.9	354.8	426.3	496.9	926.5	1437.6	1645.5	1765.2	1883.6
5°	155.5	215.6	266.3	364.4	442.1	515.1	1004.1	1532.0	1672.4	1758.2	1827.6
2.5°	163.5	219.3	269.3	369.7	453.9	524.2	1011.4	1546.8	1664.2	1744.7	1792.7
0°	168.9	221.5	270.8	371.8	463.5	530.5	996.5	1538.9	1645.9	1729.1	1785.1
-2.5°	174.8	228.0	283.0	378.4	464.3	530.7	982.3	1523.6	1664.0	1775.7	1868.8
-5°	178.4	233.2	293.4	382.4	462.8	528.6	950.3	1484.5	1661.7	1779.4	1893.4
-7.5°	180.1	237.2	301.4	383.5	456.1	518.5	896.0	1391.3	1591.8	1701.9	1843.0
-10°	180.7	242.3	305.2	377.5	443.2	502.6	823.6	1283.5	1519.6	1620.3	1768.6
-12.5°	182.4	248.4	307.6	371.6	430.1	485.0	735.1	1165.4	1446.8	1535.4	1686.5
-15°	182.5	253.3	309.3	366.4	417.4	466.0	631.2	1040.5	1407.1	1551.0	1675.1
-17.5°	180.9	257.0	310.6	362.8	405.7	445.6	516.3	929.1	1382.0	1584.5	1707.0
-20°	178.0	259.6	311.7	361.4	395.8	436.1	492.3	804.7	1254.5	1599.7	1749.3



REPORT NUMBER: P731330 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	173.9	261.1	312.7	360.2	399.0	437.1	484.4	663.9	1077.4	1597.7	1750.5
-25°	171.9	253.8	312.6	360.0	403.8	439.0	475.1	529.8	887.0	1370.4	1704.1
-27.5°	171.1	245.4	307.2	356.5	408.1	442.1	473.4	517.8	704.9	1098.1	1609.1
-30°	167.8	231.5	299.4	349.4	403.8	445.7	476.4	504.6	556.2	863.5	1288.7
-32.5°	160.1	217.1	284.6	339.1	393.5	449.1	477.6	501.8	539.8	630.8	976.2
-35°	151.0	205.5	267.1	325.9	379.1	437.6	475.8	501.2	526.2	570.2	726.8
-37.5°	142.9	192.3	249.3	308.5	362.0	416.9	471.7	498.6	523.8	555.2	614.8
-40°	133.2	177.4	232.4	288.7	342.1	395.1	448.2	494.9	520.2	561.0	600.3
-42.5°	121.9	164.8	214.3	268.3	319.5	371.4	423.4	473.4	525.9	566.9	606.2
-45°	109.6	150.6	195.0	244.2	294.4	345.1	395.6	447.7	510.8	573.3	612.7
-47.5°	95.6	134.6	176.9	217.5	265.9	315.5	365.1	419.6	482.2	547.5	617.9
-50°	80.8	116.8	155.4	192.8	233.9	282.2	330.8	385.6	444.6	507.7	574.1
-52.5°	67.2	97.1	131.9	168.0	203.9	244.1	292.8	344.9	400.1	459.5	517.4
-55°	52.4	78.9	106.5	140.5	175.6	209.8	249.4	298.2	349.1	402.8	455.1
-57.5°	41.3	60.0	83.3	110.3	143.4	177.9	212.0	248.9	293.9	341.4	385.0
-60°	32.3	44.5	61.5	83.6	108.1	139.8	173.5	206.9	241.7	276.4	314.0
-62.5°	23.9	33.3	44.2	58.5	79.1	100.8	128.8	160.0	192.3	221.2	248.4
-65°	21.2	24.0	31.5	41.4	51.5	69.4	89.3	110.1	137.1	162.5	187.2
-67.5°	18.4	21.0	23.5	27.2	36.1	45.0	53.8	71.1	89.1	105.4	122.6
-70°	16.7	18.1	20.3	22.4	24.5	28.2	36.0	43.6	50.8	59.6	73.2
-72.5°	15.1	16.3	17.6	19.2	20.9	22.7	24.5	26.4	30.9	36.9	42.2
-75°	13.5	14.3	15.3	16.5	17.7	19.0	20.3	21.8	23.3	25.0	26.8
-77.5°	12.0	12.6	13.3	13.9	14.7	15.8	16.9	17.9	18.9	19.8	20.7
-80°	10.6	11.0	11.5	12.0	12.5	13.1	13.8	14.5	15.2	16.0	16.7
-82.5°	9.5	9.7	10.0	10.3	10.6	10.8	11.1	11.5	11.9	12.4	12.8
-85°	8.3	8.5	8.7	8.9	9.0	9.2	9.4	9.5	9.7	9.8	10.0
-87.5°	7.1	7.2	7.3	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3
-90°	1.5	1.3	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	7.6	7.8	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.3	9.3
87.5°	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.6	0.4
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	1.2	1.2	1.1	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	1.9	1.8	1.7	1.5	1.4	1.3	1.2	1.0	0.8	0.8	0.8
77.5°	2.5	2.4	2.1	1.9	1.7	1.6	1.6	1.5	1.5	1.6	1.6
75°	2.6	2.5	2.7	2.7	2.5	2.4	2.3	2.1	1.8	1.7	1.7
72.5°	5.0	5.2	5.1	5.0	4.6	4.3	4.1	3.9	3.7	3.6	3.6
70°	9.6	9.7	9.3	8.4	7.2	6.3	5.9	5.5	5.1	5.0	5.2
67.5°	14.7	13.4	12.2	10.8	9.1	7.9	7.5	7.0	6.5	6.3	6.3
65°	18.1	14.2	12.1	10.7	9.9	8.9	7.9	7.0	6.1	5.5	5.3
62.5°	17.9	12.5	10.1	8.9	8.1	7.4	6.5	5.7	4.9	4.5	4.4
60°	15.5	10.4	7.7	7.0	6.3	5.9	5.4	4.9	4.5	4.2	4.2
57.5°	12.1	8.1	5.9	5.8	5.6	5.3	5.0	4.7	4.4	4.2	4.4
55°	8.8	7.1	6.0	5.9	5.7	5.4	5.0	5.0	4.9	4.8	5.1
52.5°	7.6	7.0	6.7	6.5	6.2	5.9	5.8	5.9	6.0	6.1	6.2
50°	7.5	7.2	7.1	6.7	6.7	6.7	6.7	7.0	7.2	7.3	7.3
47.5°	7.8	7.7	8.0	7.5	7.7	8.2	8.4	8.5	9.2	9.3	9.3
45°	9.2	10.5	10.8	10.7	10.4	13.6	14.3	13.1	18.0	17.3	13.4
42.5°	14.2	15.7	16.7	19.8	24.3	27.3	35.2	48.4	43.3	32.6	21.0
40°	24.4	23.9	28.6	34.2	37.6	43.7	53.4	66.0	60.9	51.7	55.2
37.5°	43.0	43.5	45.0	52.4	55.1	48.3	62.6	61.6	52.2	66.8	68.5
35°	78.8	87.2	74.1	90.2	94.0	88.2	93.5	103.4	89.4	108.1	114.2
32.5°	141.9	156.3	156.9	160.7	174.1	187.0	190.6	217.4	226.0	248.7	273.0
30°	226.6	253.3	276.1	282.2	300.1	331.9	358.2	409.8	465.1	506.6	561.2
27.5°	408.5	384.3	435.0	496.6	476.9	523.2	618.0	692.5	802.7	882.0	924.8
25°	660.8	621.5	713.7	807.6	807.8	815.7	952.8	1072.3	1162.5	1234.1	1296.8
22.5°	958.5	1007.4	1090.1	1199.1	1142.3	1194.1	1330.3	1427.4	1553.7	1677.5	2048.3
20°	1292.1	1391.2	1459.2	1442.9	1440.4	1528.5	1648.3	1835.6	2217.7	3564.4	4850.4
17.5°	1586.0	1706.4	1700.4	1631.9	1664.3	1812.3	2029.7	2757.1	4687.0	9060.9	13154.2
15°	1814.0	1867.6	1832.3	1791.4	1864.0	2085.5	2629.1	4981.5	10838.0	17842.2	25837.0
12.5°	1966.3	1945.3	1852.7	1859.4	2031.9	2343.1	4190.7	9696.4	18164.6	28111.6	48212.0
10°	2025.2	1967.5	1886.5	1961.5	2196.8	2945.8	5636.5	13463.1	26265.9	46946.1	74038.8
7.5°	1985.1	1936.0	1913.2	2045.6	2358.7	3901.3	8761.7	19042.5	37649.9	64318.5	102444.8
5°	1959.1	1926.4	1931.3	2100.7	2461.1	4603.9	10970.4	22552.4	46701.1	81118.6	129623.5
2.5°	1957.6	1938.1	1946.7	2139.0	2518.8	4963.6	12214.6	23136.9	49880.5	90256.8	151862.0
0°	1978.6	1965.9	1958.2	2146.7	2491.3	4611.7	11718.8	24076.0	52061.7	94379.7	161523.4
-2.5°	2076.4	1972.1	1967.8	2146.2	2521.8	4873.4	12009.1	23751.7	51274.4	90569.3	151159.2
-5°	2053.0	1935.1	1916.3	2066.2	2416.7	4388.6	10513.6	21935.3	45039.3	77011.5	124590.7
-7.5°	1960.2	1881.5	1848.0	1967.3	2272.1	3683.5	8153.4	17318.2	33915.4	58048.4	89780.7
-10°	1884.7	1832.8	1783.4	1865.9	2097.7	2815.0	5197.7	11618.3	23069.5	39474.1	57646.6
-12.5°	1845.1	1820.5	1731.5	1754.5	1916.5	2234.6	3636.9	7853.1	14447.4	21434.9	35015.4
-15°	1817.0	1798.4	1715.0	1709.4	1799.9	1988.0	2395.9	4073.5	8079.1	13109.5	18500.0
-17.5°	1791.7	1784.8	1740.6	1692.7	1703.9	1813.0	2037.6	2633.3	4131.7	7329.2	10813.4
-20°	1803.9	1807.8	1774.1	1724.0	1706.1	1720.2	1836.9	2042.2	2421.7	3714.4	5292.9



REPORT NUMBER: P731330 (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°	1800.1	1811.6	1802.5	1806.0	1784.6	1751.8	1728.7	1818.3	1961.9	2191.8	2775.6
-25°	1799.7	1815.6	1882.9	1969.2	1960.2	1882.0	1800.0	1729.0	1811.1	1910.4	2055.3
-27.5°	1773.1	1876.1	2043.9	2171.1	2207.6	2121.8	2007.1	1887.8	1874.7	1871.5	1927.3
-30°	1764.3	1985.7	2183.6	2365.1	2390.6	2347.3	2294.2	2209.2	2117.9	2067.4	2040.4
-32.5°	1498.0	2034.1	2276.1	2439.3	2479.7	2477.8	2489.7	2449.4	2420.9	2388.2	2342.0
-35°	1137.3	1699.8	2292.5	2367.7	2433.4	2492.0	2570.4	2590.5	2606.3	2624.4	2640.5
-37.5°	794.2	1232.6	1725.1	2154.7	2291.2	2393.1	2532.1	2634.0	2718.9	2760.9	2811.4
-40°	657.9	779.1	1160.6	1523.7	1881.5	2211.4	2361.1	2534.8	2697.2	2787.5	2870.1
-42.5°	644.4	687.5	733.3	986.6	1289.5	1600.9	1906.9	2184.3	2479.8	2676.8	2821.8
-45°	648.7	670.5	697.3	741.7	789.2	1026.9	1283.3	1545.0	1868.0	2183.5	2458.9
-47.5°	648.2	668.1	689.3	710.8	739.1	783.4	829.0	903.0	1132.1	1374.2	1608.5
-50°	625.7	666.1	685.9	706.0	726.6	748.5	771.5	804.0	842.8	879.1	908.5
-52.5°	569.1	616.7	662.4	700.8	719.6	738.9	759.3	786.4	811.8	835.7	848.1
-55°	505.0	552.4	598.8	639.9	678.8	716.2	750.9	775.7	801.2	827.0	837.6
-57.5°	431.3	479.2	525.2	563.6	602.3	641.1	677.1	711.7	746.2	778.8	797.0
-60°	352.9	392.9	434.0	473.4	511.1	546.9	580.4	613.2	644.5	672.0	689.2
-62.5°	275.9	307.4	342.1	376.3	409.4	441.4	472.3	501.7	529.5	552.9	569.2
-65°	211.2	234.7	258.6	283.3	308.4	336.0	361.9	386.4	409.4	428.5	442.7
-67.5°	143.4	163.8	183.1	201.4	219.8	239.3	259.0	277.5	294.7	308.8	319.8
-70°	86.2	98.9	111.2	124.3	139.2	153.3	167.2	180.4	192.7	202.3	209.5
-72.5°	47.0	51.6	57.7	67.8	77.1	85.7	93.6	100.8	107.2	112.5	116.9
-75°	28.6	30.9	34.7	38.2	41.7	45.0	48.1	51.0	53.6	55.8	57.7
-77.5°	21.9	23.1	24.3	25.5	26.5	27.7	28.8	29.8	30.8	31.6	32.4
-80°	17.4	18.2	18.9	19.5	20.1	20.8	21.6	22.3	22.9	23.4	23.8
-82.5°	13.3	14.0	14.6	15.2	15.8	16.2	16.5	16.9	17.3	17.7	18.0
-85°	10.1	10.6	11.0	11.5	12.0	12.2	12.3	12.4	12.5	12.8	13.1
-87.5°	8.3	8.6	8.8	9.0	9.2	9.5	9.7	9.9	10.2	10.4	10.6
-90°	0.8	0.6	0.4	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-40-80-1S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.1
87.5°	0.2	0.0	0.4	0.8	0.4	0.0	0.2	0.4	0.6	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5
75°	1.7	1.7	2.1	2.5	2.1	1.7	1.7	1.7	1.7	1.8	2.1
72.5°	3.5	3.4	3.4	3.4	3.4	3.4	3.5	3.6	3.6	3.7	3.9
70°	5.5	5.8	5.9	5.9	5.9	5.8	5.5	5.2	5.0	5.1	5.5
67.5°	6.1	5.9	5.1	4.2	5.1	5.9	6.1	6.3	6.3	6.5	7.0
65°	5.2	5.1	4.7	4.2	4.7	5.1	5.2	5.3	5.5	6.1	7.0
62.5°	4.3	4.2	4.2	4.2	4.2	4.2	4.3	4.4	4.5	4.9	5.7
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.5	4.9
57.5°	4.7	5.0	5.1	5.1	5.1	5.0	4.7	4.4	4.2	4.4	4.7
55°	5.5	5.8	5.9	5.9	5.9	5.8	5.5	5.1	4.8	4.9	5.0
52.5°	6.2	6.0	6.2	6.8	6.2	6.0	6.2	6.2	6.1	6.0	5.9
50°	7.4	7.5	7.6	7.6	7.6	7.5	7.4	7.3	7.3	7.2	7.0
47.5°	9.4	9.3	9.3	9.3	9.3	9.3	9.4	9.3	9.3	9.2	8.5
45°	13.9	14.1	14.5	15.3	14.5	14.1	13.9	13.4	17.3	18.0	13.1
42.5°	22.0	22.5	22.7	22.9	22.7	22.5	22.0	21.0	32.6	43.3	48.4
40°	52.4	41.7	31.2	31.4	31.2	41.7	52.4	55.2	51.7	60.9	66.0
37.5°	60.2	54.8	52.6	51.8	52.6	54.8	60.2	68.5	66.8	52.2	61.6
35°	114.0	116.0	113.4	114.6	113.4	116.0	114.0	114.2	108.1	89.4	103.4
32.5°	280.7	292.1	288.0	289.4	288.0	292.1	280.7	273.0	248.7	226.0	217.4
30°	583.2	618.2	626.2	623.9	626.2	618.2	583.2	561.2	506.6	465.1	409.8
27.5°	942.0	969.8	975.5	970.2	975.5	969.8	942.0	924.8	882.0	802.7	692.5
25°	1331.5	1357.9	1372.9	1365.8	1372.9	1357.9	1331.5	1296.8	1234.1	1162.5	1072.3
22.5°	2477.7	2598.0	2656.7	2736.6	2656.7	2598.0	2477.7	2048.3	1677.5	1553.7	1427.4
20°	7307.4	8138.0	7980.7	7809.2	7980.7	8138.0	7307.4	4850.4	3564.4	2217.7	1835.6
17.5°	18240.2	22324.5	24269.3	23477.6	24269.3	22324.5	18240.2	13154.2	9060.9	4687.0	2757.1
15°	37306.5	48718.0	55390.2	53609.1	55390.2	48718.0	37306.5	25837.0	17842.2	10838.0	4981.5
12.5°	67581.1	85717.3	99611.4	101600.3	99611.4	85717.3	67581.1	48212.0	28111.6	18164.6	9696.4
10°	106281.9	139796.0	167415.2	176432.9	167415.2	139796.0	106281.9	74038.8	46946.1	26265.9	13463.1
7.5°	152411.3	197150.5	229003.1	237856.8	229003.1	197150.5	152411.3	102444.8	64318.5	37649.9	19042.5
5°	189407.8	240896.5	276169.7	287004.0	276169.7	240896.5	189407.8	129623.5	81118.6	46701.1	22552.4
2.5°	217119.2	271126.1	310459.5	328432.1	310459.5	271126.1	217119.2	151862.0	90256.8	49880.5	23136.9
0°	227854.2	282277.7	326384.2	351926.2	326384.2	282277.7	227854.2	161523.4	94379.7	52061.7	24076.0
-2.5°	217352.9	267951.6	301916.5	318665.5	301916.5	267951.6	217352.9	151159.2	90569.3	51274.4	23751.7
-5°	180953.4	225726.5	255016.6	266841.0	255016.6	225726.5	180953.4	124590.7	77011.5	45039.3	21935.3
-7.5°	129657.5	166410.8	188243.4	198206.5	188243.4	166410.8	129657.5	89780.7	58048.4	33915.4	17318.2
-10°	84237.2	104580.6	126593.8	131305.3	126593.8	104580.6	84237.2	57646.6	39474.1	23069.5	11618.3
-12.5°	47457.2	60294.2	71234.8	75183.2	71234.8	60294.2	47457.2	35015.4	21434.9	14447.4	7853.1
-15°	25675.9	32989.9	36930.8	37899.9	36930.8	32989.9	25675.9	18500.0	13109.5	8079.1	4073.5
-17.5°	14741.4	18254.9	20265.3	21188.3	20265.3	18254.9	14741.4	10813.4	7329.2	4131.7	2633.3
-20°	7877.4	9859.9	10991.8	11825.0	10991.8	9859.9	7877.4	5292.9	3714.4	2421.7	2042.2



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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°	3618.2	4229.3	4574.5	4964.8	4574.5	4229.3	3618.2	2775.6	2191.8	1961.9	1818.3
-25°	2181.2	2263.4	2312.9	2352.9	2312.9	2263.4	2181.2	2055.3	1910.4	1811.1	1729.0
-27.5°	1975.2	2002.0	2017.6	2033.8	2017.6	2002.0	1975.2	1927.3	1871.5	1874.7	1887.8
-30°	2017.2	1990.0	1980.5	1970.1	1980.5	1990.0	2017.2	2040.4	2067.4	2117.9	2209.2
-32.5°	2295.6	2242.6	2214.1	2187.4	2214.1	2242.6	2295.6	2342.0	2388.2	2420.9	2449.4
-35°	2634.3	2610.5	2597.9	2582.1	2597.9	2610.5	2634.3	2640.5	2624.4	2606.3	2590.5
-37.5°	2819.9	2815.8	2815.0	2807.1	2815.0	2815.8	2819.9	2811.4	2760.9	2718.9	2634.0
-40°	2879.6	2878.0	2873.8	2869.9	2873.8	2878.0	2879.6	2870.1	2787.5	2697.2	2534.8
-42.5°	2860.4	2886.0	2898.3	2898.7	2898.3	2886.0	2860.4	2821.8	2676.8	2479.8	2184.3
-45°	2634.4	2764.9	2840.9	2861.4	2840.9	2764.9	2634.4	2458.9	2183.5	1868.0	1545.0
-47.5°	1817.2	2001.3	2143.1	2232.4	2143.1	2001.3	1817.2	1608.5	1374.2	1132.1	903.0
-50°	934.1	958.1	982.3	1005.9	982.3	958.1	934.1	908.5	879.1	842.8	804.0
-52.5°	858.0	868.0	874.3	877.7	874.3	868.0	858.0	848.1	835.7	811.8	786.4
-55°	847.2	856.4	861.0	862.4	861.0	856.4	847.2	837.6	827.0	801.2	775.7
-57.5°	812.7	825.6	833.3	836.9	833.3	825.6	812.7	797.0	778.8	746.2	711.7
-60°	703.6	715.1	722.9	727.4	722.9	715.1	703.6	689.2	672.0	644.5	613.2
-62.5°	582.7	593.4	599.4	601.8	599.4	593.4	582.7	569.2	552.9	529.5	501.7
-65°	454.4	463.7	473.0	480.4	473.0	463.7	454.4	442.7	428.5	409.4	386.4
-67.5°	329.1	336.6	344.8	351.4	344.8	336.6	329.1	319.8	308.8	294.7	277.5
-70°	215.2	219.3	226.0	231.7	226.0	219.3	215.2	209.5	202.3	192.7	180.4
-72.5°	120.4	123.0	128.0	132.4	128.0	123.0	120.4	116.9	112.5	107.2	100.8
-75°	59.2	60.4	60.9	61.1	60.9	60.4	59.2	57.7	55.8	53.6	51.0
-77.5°	33.1	33.8	34.0	34.0	34.0	33.8	33.1	32.4	31.6	30.8	29.8
-80°	24.2	24.5	25.0	25.5	25.0	24.5	24.2	23.8	23.4	22.9	22.3
-82.5°	18.3	18.6	18.7	18.7	18.7	18.6	18.3	18.0	17.7	17.3	16.9
-85°	13.3	13.6	13.6	13.6	13.6	13.6	13.3	13.1	12.8	12.5	12.4
-87.5°	10.8	11.0	11.0	11.0	11.0	11.0	10.8	10.6	10.4	10.2	9.9
-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°	8.9	8.7	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0	6.8
87.5°	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	1.1	1.2
82.5°	0.8	0.8	0.8	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.7
80°	1.2	1.3	1.4	1.5	1.7	1.8	1.9	1.8	1.7	1.7	1.7
77.5°	1.6	1.6	1.7	1.9	2.1	2.4	2.5	2.5	2.4	2.2	2.1
75°	2.3	2.4	2.5	2.7	2.7	2.5	2.6	2.7	2.8	2.8	2.7
72.5°	4.1	4.3	4.6	5.0	5.1	5.2	5.0	4.6	4.2	3.7	3.3
70°	5.9	6.3	7.2	8.4	9.3	9.7	9.6	8.8	7.3	6.2	5.3
67.5°	7.5	7.9	9.1	10.8	12.2	13.4	14.7	15.5	15.0	13.3	9.4
65°	7.9	8.9	9.9	10.7	12.1	14.2	18.1	20.2	20.9	20.4	16.1
62.5°	6.5	7.4	8.1	8.9	10.1	12.5	17.9	22.1	25.2	25.0	20.1
60°	5.4	5.9	6.3	7.0	7.7	10.4	15.5	21.4	28.0	26.1	22.0
57.5°	5.0	5.3	5.6	5.8	5.9	8.1	12.1	17.7	24.0	23.6	21.4
55°	5.0	5.4	5.7	5.9	6.0	7.1	8.8	12.3	17.2	18.5	17.6
52.5°	5.8	5.9	6.2	6.5	6.7	7.0	7.6	9.6	11.0	12.8	13.8
50°	6.7	6.7	6.7	6.7	7.1	7.2	7.5	8.3	9.2	9.8	10.2
47.5°	8.4	8.2	7.7	7.5	8.0	7.7	7.8	7.9	8.7	9.0	9.1
45°	14.3	13.6	10.4	10.7	10.8	10.5	9.2	9.9	9.4	9.3	9.3
42.5°	35.2	27.3	24.3	19.8	16.7	15.7	14.2	14.2	13.4	11.1	11.2
40°	53.4	43.7	37.6	34.2	28.6	23.9	24.4	20.3	19.1	16.6	15.9
37.5°	62.6	48.3	55.1	52.4	45.0	43.5	43.0	35.2	25.7	30.4	29.2
35°	93.5	88.2	94.0	90.2	74.1	87.2	78.8	61.1	50.3	53.2	48.8
32.5°	190.6	187.0	174.1	160.7	156.9	156.3	141.9	108.6	100.0	92.8	78.8
30°	358.2	331.9	300.1	282.2	276.1	253.3	226.6	231.8	190.4	144.5	118.6
27.5°	618.0	523.2	476.9	496.6	435.0	384.3	408.5	431.1	321.6	234.7	175.5
25°	952.8	815.7	807.8	807.6	713.7	621.5	660.8	663.4	555.3	355.8	253.0
22.5°	1330.3	1194.1	1142.3	1199.1	1090.1	1007.4	958.5	923.1	841.9	578.2	392.6
20°	1648.3	1528.5	1440.4	1442.9	1459.2	1391.2	1292.1	1197.7	1087.4	867.8	570.3
17.5°	2029.7	1812.3	1664.3	1631.9	1700.4	1706.4	1586.0	1439.4	1324.6	1167.0	773.7
15°	2629.1	2085.5	1864.0	1791.4	1832.3	1867.6	1814.0	1662.8	1550.5	1420.0	1010.3
12.5°	4190.7	2343.1	2031.9	1859.4	1852.7	1945.3	1966.3	1870.9	1726.2	1541.7	1176.5
10°	5636.5	2945.8	2196.8	1961.5	1886.5	1967.5	2025.2	1915.7	1755.9	1603.2	1319.0
7.5°	8761.7	3901.3	2358.7	2045.6	1913.2	1936.0	1985.1	1883.6	1765.2	1645.5	1437.6
5°	10970.4	4603.9	2461.1	2100.7	1931.3	1926.4	1959.1	1827.6	1758.2	1672.4	1532.0
2.5°	12214.6	4963.6	2518.8	2139.0	1946.7	1938.1	1957.6	1792.7	1744.7	1664.2	1546.8
0°	11718.8	4611.7	2491.3	2146.7	1958.2	1965.9	1978.6	1785.1	1729.1	1645.9	1538.9
-2.5°	12009.1	4873.4	2521.8	2146.2	1967.8	1972.1	2076.4	1868.8	1775.7	1664.0	1523.6
-5°	10513.6	4388.6	2416.7	2066.2	1916.3	1935.1	2053.0	1893.4	1779.4	1661.7	1484.5
-7.5°	8153.4	3683.5	2272.1	1967.3	1848.0	1881.5	1960.2	1843.0	1701.9	1591.8	1391.3
-10°	5197.7	2815.0	2097.7	1865.9	1783.4	1832.8	1884.7	1768.6	1620.3	1519.6	1283.5
-12.5°	3636.9	2234.6	1916.5	1754.5	1731.5	1820.5	1845.1	1686.5	1535.4	1446.8	1165.4
-15°	2395.9	1988.0	1799.9	1709.4	1715.0	1798.4	1817.0	1675.1	1551.0	1407.1	1040.5
-17.5°	2037.6	1813.0	1703.9	1692.7	1740.6	1784.8	1791.7	1707.0	1584.5	1382.0	929.1
-20°	1836.9	1720.2	1706.1	1724.0	1774.1	1807.8	1803.9	1749.3	1599.7	1254.5	804.7



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV1

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1728.7	1751.8	1784.6	1806.0	1802.5	1811.6	1800.1	1750.5	1597.7	1077.4	663.9
-25°	1800.0	1882.0	1960.2	1969.2	1882.9	1815.6	1799.7	1704.1	1370.4	887.0	529.8
-27.5°	2007.1	2121.8	2207.6	2171.1	2043.9	1876.1	1773.1	1609.1	1098.1	704.9	517.8
-30°	2294.2	2347.3	2390.6	2365.1	2183.6	1985.7	1764.3	1288.7	863.5	556.2	504.6
-32.5°	2489.7	2477.8	2479.7	2439.3	2276.1	2034.1	1498.0	976.2	630.8	539.8	501.8
-35°	2570.4	2492.0	2433.4	2367.7	2292.5	1699.8	1137.3	726.8	570.2	526.2	501.2
-37.5°	2532.1	2393.1	2291.2	2154.7	1725.1	1232.6	794.2	614.8	555.2	523.8	498.6
-40°	2361.1	2211.4	1881.5	1523.7	1160.6	779.1	657.9	600.3	561.0	520.2	494.9
-42.5°	1906.9	1600.9	1289.5	986.6	733.3	687.5	644.4	606.2	566.9	525.9	473.4
-45°	1283.3	1026.9	789.2	741.7	697.3	670.5	648.7	612.7	573.3	510.8	447.7
-47.5°	829.0	783.4	739.1	710.8	689.3	668.1	648.2	617.9	547.5	482.2	419.6
-50°	771.5	748.5	726.6	706.0	685.9	666.1	625.7	574.1	507.7	444.6	385.6
-52.5°	759.3	738.9	719.6	700.8	662.4	616.7	569.1	517.4	459.5	400.1	344.9
-55°	750.9	716.2	678.8	639.9	598.8	552.4	505.0	455.1	402.8	349.1	298.2
-57.5°	677.1	641.1	602.3	563.6	525.2	479.2	431.3	385.0	341.4	293.9	248.9
-60°	580.4	546.9	511.1	473.4	434.0	392.9	352.9	314.0	276.4	241.7	206.9
-62.5°	472.3	441.4	409.4	376.3	342.1	307.4	275.9	248.4	221.2	192.3	160.0
-65°	361.9	336.0	308.4	283.3	258.6	234.7	211.2	187.2	162.5	137.1	110.1
-67.5°	259.0	239.3	219.8	201.4	183.1	163.8	143.4	122.6	105.4	89.1	71.1
-70°	167.2	153.3	139.2	124.3	111.2	98.9	86.2	73.2	59.6	50.8	43.6
-72.5°	93.6	85.7	77.1	67.8	57.7	51.6	47.0	42.2	36.9	30.9	26.4
-75°	48.1	45.0	41.7	38.2	34.7	30.9	28.6	26.8	25.0	23.3	21.8
-77.5°	28.8	27.7	26.5	25.5	24.3	23.1	21.9	20.7	19.8	18.9	17.9
-80°	21.6	20.8	20.1	19.5	18.9	18.2	17.4	16.7	16.0	15.2	14.5
-82.5°	16.5	16.2	15.8	15.2	14.6	14.0	13.3	12.8	12.4	11.9	11.5
-85°	12.3	12.2	12.0	11.5	11.0	10.6	10.1	10.0	9.8	9.7	9.5
-87.5°	9.7	9.5	9.2	9.0	8.8	8.6	8.3	8.3	8.2	8.1	8.0
-90°	0.0	0.0	0.0	0.2	0.4	0.6	0.8	0.8	0.8	0.8	0.8



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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°	6.6	6.4	6.1	5.9	5.9	5.9	5.9	5.9	5.5	5.1	4.6
87.5°	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.8	1.9
85°	1.3	1.4	1.5	1.7	1.7	1.7	1.7	1.7	1.9	2.0	2.1
82.5°	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	2.0	2.1	2.2
80°	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.4	2.5
77.5°	2.2	2.2	2.4	2.4	2.3	2.3	2.4	2.5	2.7	2.7	2.8
75°	2.5	2.4	2.5	2.5	2.6	2.5	2.5	2.6	2.8	3.0	3.0
72.5°	3.1	2.9	2.7	2.6	2.7	2.8	2.6	2.6	2.8	3.0	3.2
70°	4.3	3.6	3.2	3.0	3.0	3.1	3.0	2.9	2.8	3.1	3.3
67.5°	6.0	4.9	4.1	3.5	3.3	3.2	3.3	3.3	3.2	3.1	3.3
65°	11.4	7.7	5.0	4.3	3.7	3.4	3.4	3.6	3.5	3.4	3.3
62.5°	15.7	11.6	8.0	5.5	4.3	3.7	3.4	3.7	3.8	3.7	3.5
60°	18.5	14.1	10.8	7.9	5.5	4.1	3.8	3.9	4.0	3.9	3.7
57.5°	17.8	15.4	13.0	10.0	7.1	5.0	4.2	4.2	4.2	4.2	4.0
55°	15.6	13.7	14.2	12.1	8.8	6.0	4.9	4.6	4.5	4.5	4.2
52.5°	12.8	12.8	14.0	13.5	10.7	7.3	5.9	5.0	4.9	4.8	4.5
50°	10.3	12.2	13.9	14.3	12.5	9.4	6.8	5.8	5.2	5.1	4.8
47.5°	9.4	11.6	13.4	15.1	14.1	11.4	8.4	6.5	5.6	5.4	5.1
45°	10.4	11.3	13.0	14.7	15.7	13.0	10.1	7.3	6.2	5.7	5.4
42.5°	12.5	12.7	13.2	14.3	15.6	14.2	11.7	8.6	6.8	6.0	5.7
40°	15.7	15.4	14.2	15.4	15.6	15.3	12.8	9.9	7.3	6.4	6.0
37.5°	20.0	19.1	17.2	18.3	16.7	15.7	13.7	11.2	8.1	6.9	6.2
35°	36.1	23.9	26.9	25.4	20.8	16.5	14.4	12.2	9.3	7.5	6.5
32.5°	56.7	44.9	47.4	37.3	26.3	17.7	15.2	13.2	10.5	8.0	6.7
30°	95.2	94.3	78.6	52.5	34.9	22.8	16.7	14.4	11.6	8.6	7.0
27.5°	160.4	154.3	121.6	81.4	49.5	29.6	19.4	15.8	12.7	9.3	7.5
25°	227.3	216.6	179.9	120.7	66.3	45.9	22.4	17.4	13.8	10.2	7.9
22.5°	299.2	276.9	245.2	166.4	94.7	67.8	30.7	19.9	15.0	11.0	8.4
20°	370.0	336.5	311.1	205.6	129.9	93.0	46.4	22.5	16.3	11.8	8.8
17.5°	455.1	384.1	337.2	244.4	165.2	118.6	65.0	25.3	17.6	12.5	9.2
15°	588.5	415.8	360.3	278.5	195.7	144.1	85.7	28.2	18.9	13.1	9.6
12.5°	709.9	445.2	383.1	308.1	222.0	169.4	107.8	31.1	20.3	13.7	9.9
10°	823.5	472.3	405.2	333.5	244.6	194.3	130.7	34.1	21.5	14.3	10.2
7.5°	926.5	496.9	426.3	354.8	261.9	210.2	144.8	36.9	22.7	14.8	10.5
5°	1004.1	515.1	442.1	364.4	266.3	215.6	155.5	39.5	23.8	15.3	10.7
2.5°	1011.4	524.2	453.9	369.7	269.3	219.3	163.5	42.0	24.7	15.8	10.9
0°	996.5	530.5	463.5	371.8	270.8	221.5	168.9	44.1	25.5	16.1	11.0
-2.5°	982.3	530.7	464.3	378.4	283.0	228.0	174.8	56.7	33.6	20.7	13.1
-5°	950.3	528.6	462.8	382.4	293.4	233.2	178.4	68.7	41.4	25.1	15.1
-7.5°	896.0	518.5	456.1	383.5	301.4	237.2	180.1	79.9	48.7	29.1	17.0
-10°	823.6	502.6	443.2	377.5	305.2	242.3	180.7	89.9	55.3	32.8	18.7
-12.5°	735.1	485.0	430.1	371.6	307.6	248.4	182.4	98.3	61.0	35.9	20.2
-15°	631.2	466.0	417.4	366.4	309.3	253.3	182.5	105.2	66.2	38.9	21.3
-17.5°	516.3	445.6	405.7	362.8	310.6	257.0	180.9	110.5	70.4	41.9	22.6
-20°	492.3	436.1	395.8	361.4	311.7	259.6	178.0	114.1	73.5	44.0	23.9



REPORT NUMBER: P731330 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	484.4	437.1	399.0	360.2	312.7	261.1	173.9	116.0	75.6	45.3	24.6
-25°	475.1	439.0	403.8	360.0	312.6	253.8	171.9	115.9	76.4	45.7	24.8
-27.5°	473.4	442.1	408.1	356.5	307.2	245.4	171.1	116.4	76.4	45.2	24.3
-30°	476.4	445.7	403.8	349.4	299.4	231.5	167.8	115.5	75.6	44.4	23.2
-32.5°	477.6	449.1	393.5	339.1	284.6	217.1	160.1	112.9	73.5	43.1	22.6
-35°	475.8	437.6	379.1	325.9	267.1	205.5	151.0	108.5	70.1	40.8	21.9
-37.5°	471.7	416.9	362.0	308.5	249.3	192.3	142.9	101.6	65.2	37.5	20.8
-40°	448.2	395.1	342.1	288.7	232.4	177.4	133.2	93.6	60.2	33.1	19.2
-42.5°	423.4	371.4	319.5	268.3	214.3	164.8	121.9	84.1	53.6	29.9	17.2
-45°	395.6	345.1	294.4	244.2	195.0	150.6	109.6	73.4	46.0	27.1	15.6
-47.5°	365.1	315.5	265.9	217.5	176.9	134.6	95.6	63.7	37.5	23.7	14.9
-50°	330.8	282.2	233.9	192.8	155.4	116.8	80.8	52.9	32.8	19.6	14.1
-52.5°	292.8	244.1	203.9	168.0	131.9	97.1	67.2	41.7	27.5	17.5	13.3
-55°	249.4	209.8	175.6	140.5	106.5	78.9	52.4	35.0	21.8	16.3	12.3
-57.5°	212.0	177.9	143.4	110.3	83.3	60.0	41.3	27.7	19.2	15.0	11.7
-60°	173.5	139.8	108.1	83.6	61.5	44.5	32.3	21.8	17.5	13.8	11.0
-62.5°	128.8	100.8	79.1	58.5	44.2	33.3	23.9	19.7	15.8	12.9	10.3
-65°	89.3	69.4	51.5	41.4	31.5	24.0	21.2	17.5	14.6	12.1	9.6
-67.5°	53.8	45.0	36.1	27.2	23.5	21.0	18.4	16.0	13.6	11.2	9.3
-70°	36.0	28.2	24.5	22.4	20.3	18.1	16.7	14.8	12.5	10.5	8.8
-72.5°	24.5	22.7	20.9	19.2	17.6	16.3	15.1	13.6	11.6	9.9	8.3
-75°	20.3	19.0	17.7	16.5	15.3	14.3	13.5	12.4	10.7	9.2	7.7
-77.5°	16.9	15.8	14.7	13.9	13.3	12.6	12.0	11.2	9.7	8.4	7.0
-80°	13.8	13.1	12.5	12.0	11.5	11.0	10.6	10.1	8.9	7.6	6.4
-82.5°	11.1	10.8	10.6	10.3	10.0	9.7	9.5	9.1	8.0	6.8	5.8
-85°	9.4	9.2	9.0	8.9	8.7	8.5	8.3	8.1	7.1	6.2	5.4
-87.5°	7.9	7.7	7.6	7.4	7.3	7.2	7.1	7.0	6.3	5.6	5.0
-90°	0.8	0.8	0.8	0.8	1.0	1.3	1.5	1.7	1.7	1.7	1.7



REPORT NUMBER: P731330 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.2	3.8	3.4	2.9	2.5	2.5	2.5
87.5°	1.9	2.0	2.2	2.3	2.5	2.5	2.5
85°	2.1	2.2	2.2	2.4	2.5	2.5	2.5
82.5°	2.3	2.3	2.3	2.4	2.5	2.6	2.5
80°	2.5	2.4	2.4	2.4	2.5	2.6	2.5
77.5°	2.8	2.6	2.4	2.4	2.5	2.6	2.5
75°	3.0	2.8	2.5	2.5	2.5	2.6	2.5
72.5°	3.2	2.9	2.7	2.5	2.5	2.6	2.5
70°	3.4	3.1	2.8	2.5	2.5	2.7	2.5
67.5°	3.4	3.3	3.0	2.6	2.6	2.7	2.5
65°	3.5	3.4	3.1	2.7	2.6	2.7	2.5
62.5°	3.5	3.5	3.3	2.8	2.6	2.7	2.5
60°	3.6	3.6	3.4	2.9	2.6	2.8	2.5
57.5°	3.7	3.6	3.5	3.0	2.7	2.8	2.5
55°	4.0	3.7	3.6	3.1	2.8	2.8	2.5
52.5°	4.2	3.8	3.6	3.2	2.9	2.8	2.5
50°	4.4	4.0	3.7	3.3	3.0	2.9	2.5
47.5°	4.6	4.2	3.8	3.4	3.0	2.9	2.5
45°	4.9	4.3	3.9	3.5	3.1	2.9	2.5
42.5°	5.1	4.5	4.0	3.6	3.2	2.9	2.5
40°	5.4	4.7	4.1	3.7	3.3	3.0	2.5
37.5°	5.7	4.8	4.3	3.8	3.4	3.0	2.5
35°	6.0	5.0	4.4	3.9	3.4	3.0	2.5
32.5°	6.3	5.3	4.5	4.0	3.5	3.1	2.5
30°	6.5	5.5	4.6	4.1	3.6	3.1	2.5
27.5°	6.7	5.7	4.7	4.2	3.6	3.1	2.5
25°	6.9	5.9	4.9	4.3	3.7	3.1	2.5
22.5°	7.1	6.2	5.0	4.4	3.8	3.2	2.5
20°	7.3	6.3	5.1	4.5	3.8	3.2	2.5
17.5°	7.4	6.4	5.3	4.6	3.9	3.2	2.5
15°	7.6	6.6	5.4	4.7	3.9	3.3	2.5
12.5°	7.7	6.6	5.5	4.7	4.0	3.3	2.5
10°	7.9	6.7	5.6	4.8	4.0	3.3	2.5
7.5°	8.1	6.7	5.7	4.9	4.1	3.3	2.5
5°	8.2	6.8	5.7	5.0	4.1	3.4	2.5
2.5°	8.4	6.8	5.8	5.0	4.2	3.4	2.5
0°	8.5	6.8	5.9	5.1	4.2	3.4	2.5
-2.5°	9.3	7.2	6.0	5.2	4.2	3.4	2.5
-5°	10.0	7.5	6.2	5.2	4.3	3.4	2.5
-7.5°	10.7	7.9	6.3	5.2	4.3	3.4	2.5
-10°	11.4	8.2	6.4	5.3	4.3	3.5	2.5
-12.5°	11.9	8.4	6.5	5.3	4.4	3.5	2.5
-15°	12.4	8.7	6.6	5.3	4.4	3.5	2.5
-17.5°	12.8	8.9	6.7	5.3	4.4	3.5	2.5
-20°	13.2	9.0	6.7	5.4	4.4	3.5	2.5



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.7	9.1	6.8	5.4	4.4	3.5	2.5
-25°	13.9	9.2	6.8	5.4	4.4	3.5	2.5
-27.5°	13.9	9.2	6.7	5.4	4.4	3.5	2.5
-30°	13.6	9.2	6.7	5.4	4.4	3.5	2.5
-32.5°	13.0	9.1	6.7	5.4	4.4	3.4	2.5
-35°	12.7	9.0	6.7	5.3	4.4	3.4	2.5
-37.5°	12.5	8.9	6.6	5.3	4.4	3.4	2.5
-40°	12.2	8.8	6.5	5.3	4.4	3.4	2.5
-42.5°	11.9	8.6	6.5	5.3	4.4	3.4	2.5
-45°	11.4	8.5	6.4	5.3	4.3	3.3	2.5
-47.5°	10.9	8.2	6.4	5.3	4.3	3.3	2.5
-50°	10.5	8.0	6.4	5.2	4.3	3.3	2.5
-52.5°	10.1	7.7	6.3	5.2	4.2	3.2	2.5
-55°	9.6	7.5	6.2	5.1	4.2	3.2	2.5
-57.5°	9.1	7.4	6.1	5.0	4.1	3.2	2.5
-60°	8.6	7.2	6.0	4.9	4.1	3.1	2.5
-62.5°	8.4	7.0	5.8	4.8	4.0	3.1	2.5
-65°	8.1	6.8	5.6	4.7	3.9	3.0	2.5
-67.5°	7.8	6.5	5.4	4.5	3.8	3.0	2.5
-70°	7.4	6.2	5.2	4.4	3.6	2.9	2.5
-72.5°	6.9	5.8	4.9	4.2	3.5	2.9	2.5
-75°	6.4	5.4	4.7	4.1	3.4	2.8	2.5
-77.5°	5.8	5.0	4.4	3.9	3.2	2.8	2.5
-80°	5.2	4.7	4.2	3.7	3.1	2.7	2.5
-82.5°	4.9	4.5	4.0	3.5	2.9	2.7	2.5
-85°	4.7	4.2	3.8	3.3	2.8	2.6	2.5
-87.5°	4.4	4.0	3.6	3.1	2.6	2.6	2.5
-90°	1.7	1.9	2.1	2.3	2.5	2.5	2.5

(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

