

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: P731434 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-3S-CV1**

Issue Date: 11/16/2023

Test Information

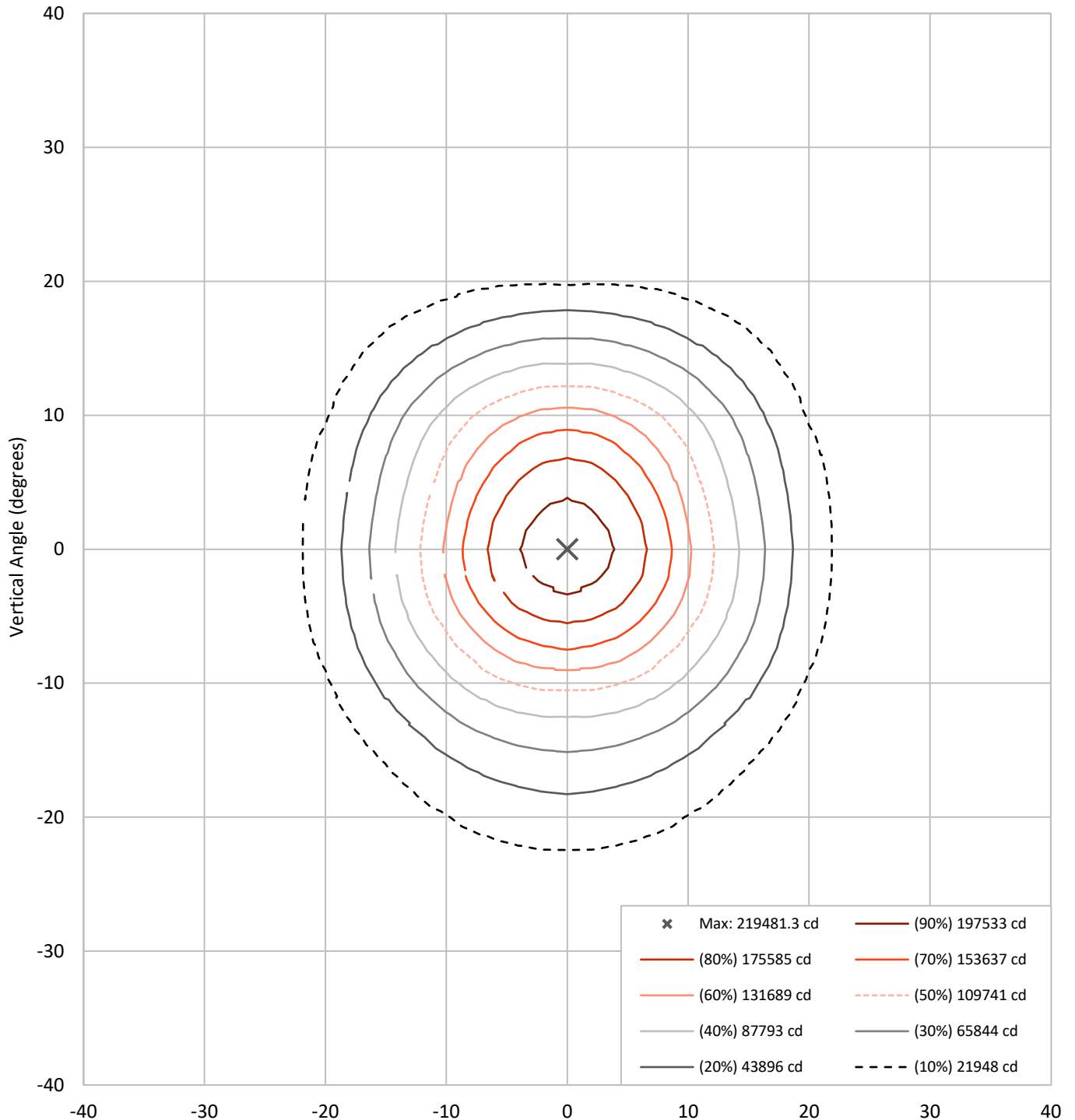
Test Method: LM-79-08
Report Number: P731434 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-20)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-3S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 3S 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:	45489.2 lumens	Max Intensity:	219481.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.3°H x 22.7°V	Field Angle (10%):	43.8°H x 42.1°V
Beam Lumens:	21450.3 lumens	Field Lumens:	38750.9 lumens
Beam Efficiency:	47.2%	Field Efficiency:	85.2%
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





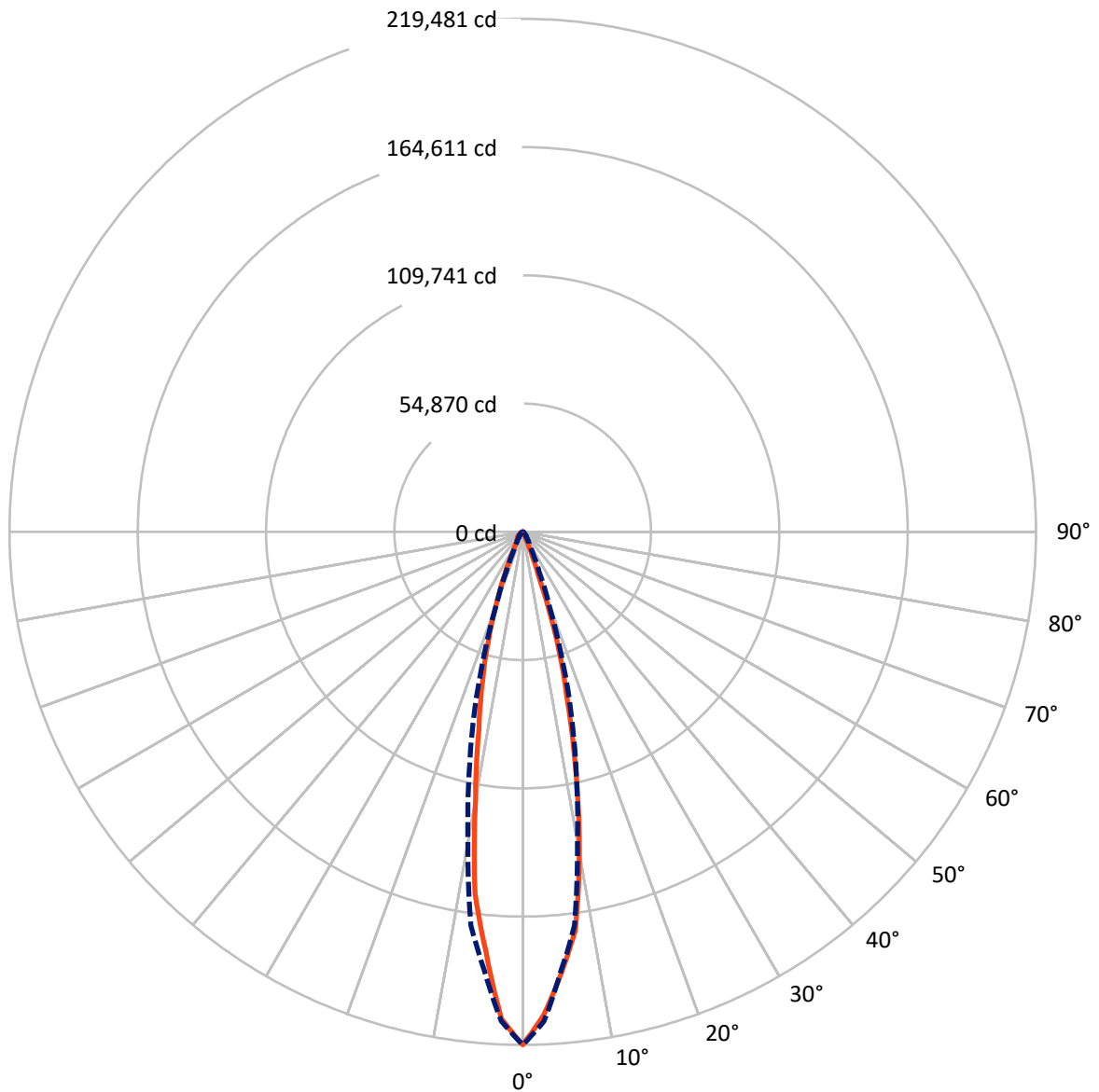
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Lumen Table

90	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1					
80	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1					
70	0.1	0.0	0.1	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.1	0.0	0.1
60		0.1	0.3	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.1	
50	0.1	0.1	0.4	0.4	0.4	0.7	1.2	0.8	0.8	1.2	0.7	0.4	0.4	0.4	0.1	0.1
40		0.2	0.8	1.8	3.2	4.6	6.3	7.6	7.6	6.3	4.6	3.2	1.8	0.8	0.2	
30	0.1	0.4	3.1	9.7	22.4	37.4	76.7	147.7	147.7	76.7	37.4	22.4	9.7	3.1	0.4	0.1
20		0.9	6.6	24.7	59.8	158.3	871.8	2057.3	2057.3	871.8	158.3	59.8	24.7	6.6	0.9	
10	0.2	1.4	8.8	32.9	76.9	337.7	2089.9	4901.4	4901.4	2089.9	337.7	76.9	32.9	8.8	1.4	0.2
0		1.8	9.4	33.4	77.1	334.4	2053.4	4697.0	4697.0	2053.4	334.4	77.1	33.4	9.4	1.8	
-10	0.4	2.1	8.9	27.7	60.6	159.6	832.5	1879.0	1879.0	832.5	159.6	60.6	27.7	8.9	2.1	0.4
-20		2.2	8.3	20.8	51.7	90.5	207.2	423.5	423.5	207.2	90.5	51.7	20.8	8.3	2.2	
-30	0.3	2.0	7.1	15.7	38.1	74.8	105.1	129.1	129.1	105.1	74.8	38.1	15.7	7.1	2.0	0.3
-40		1.4	5.4	12.4	23.1	41.1	67.3	86.1	86.1	67.3	41.1	23.1	12.4	5.4	1.4	
-50	0.2	0.7	3.3	8.3	15.8	24.3	32.5	37.7	37.7	32.5	24.3	15.8	8.3	3.3	0.7	0.2
-60		0.3	1.1	3.6	7.4	11.7	16.0	18.4	18.4	16.0	11.7	7.4	3.6	1.1	0.3	
-70	0.1	0.7	2.3	6.0	8.1	6.0	2.3	0.7	0.1							0.1
-80		0.1	0.7	2.3	6.0	8.1	6.0	2.3	0.7	0.1						
-90	0.1	0.7	2.3	6.0	8.1	6.0	2.3	0.7	0.1							0.1

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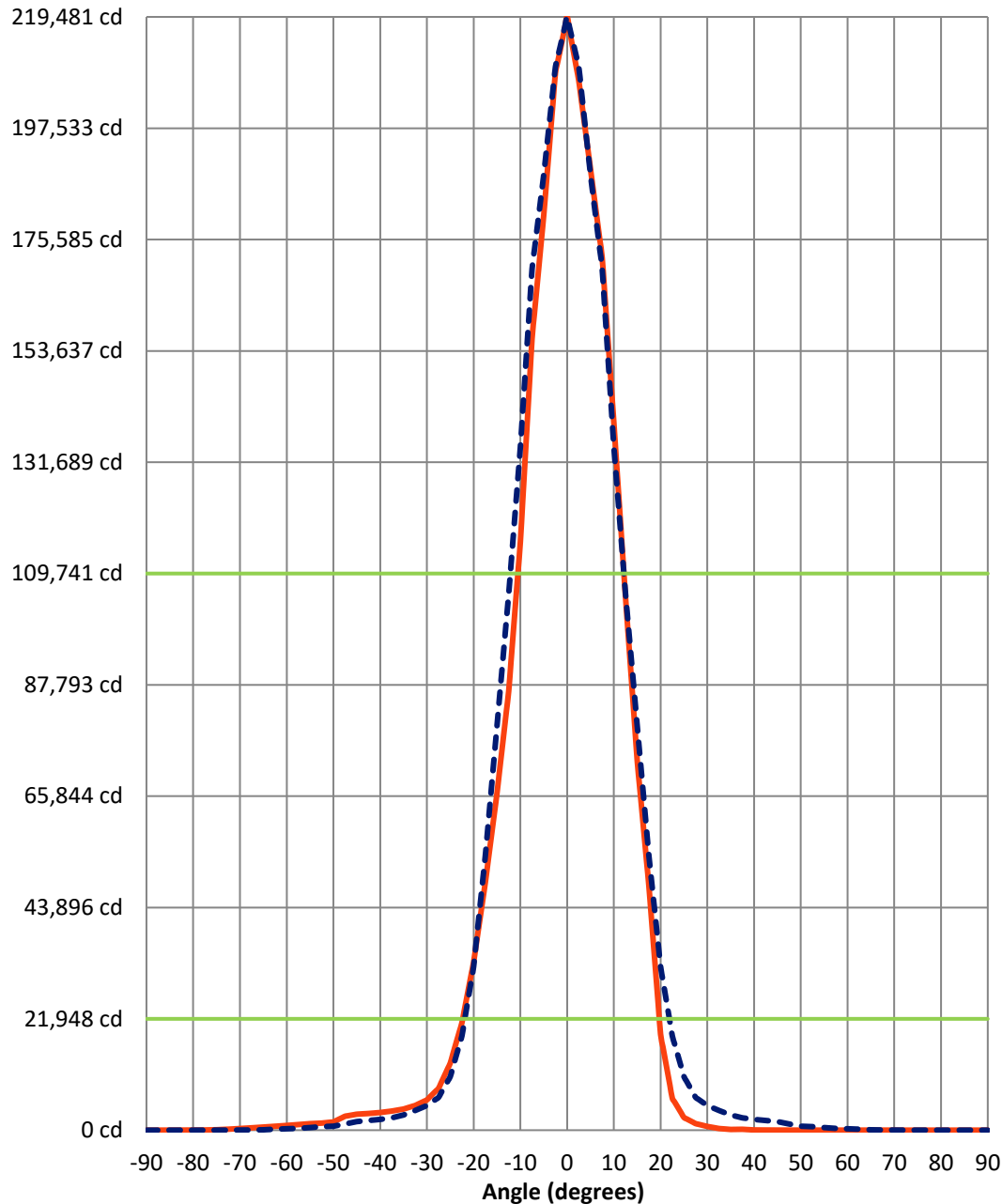
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 24.3°
 V Angle: 22.7°
 Lumens: 21450.3
 Efficiency: 47.2%

Field:
 H Angle: 43.8°
 V Angle: 42.1°
 Lumens: 38750.9
 Efficiency: 85.2%

Spill:
 Lumens: 6738.3
 Efficiency: 14.8%

— 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°	2.2	2.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.3	2.4	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.3	2.5	2.5	2.5	2.4	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.4	2.6	2.6	2.6	2.5	2.3	2.4	2.4	2.4	2.2
77.5°	2.2	2.4	2.7	2.7	2.7	2.6	2.5	2.6	2.6	2.5	2.3
75°	2.2	2.5	2.8	2.9	2.8	2.7	2.8	2.9	2.8	2.6	2.3
72.5°	2.2	2.5	2.9	3.0	2.9	2.9	3.1	3.1	2.8	2.6	2.3
70°	2.2	2.6	3.0	3.1	3.0	3.1	3.3	3.1	2.9	2.6	2.7
67.5°	2.2	2.6	3.0	3.1	3.1	3.2	3.3	3.2	2.9	2.9	3.0
65°	2.2	2.7	3.1	3.2	3.2	3.3	3.3	3.2	3.1	3.1	3.3
62.5°	2.2	2.7	3.2	3.2	3.2	3.3	3.3	3.2	3.2	3.3	3.5
60°	2.2	2.7	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.6	3.6
57.5°	2.2	2.8	3.3	3.2	3.3	3.3	3.4	3.3	3.5	3.8	3.8
55°	2.2	2.8	3.3	3.3	3.3	3.3	3.4	3.4	3.8	4.1	4.1
52.5°	2.2	2.9	3.3	3.3	3.3	3.3	3.5	3.7	4.2	4.4	4.4
50°	2.2	2.9	3.3	3.3	3.3	3.4	3.6	4.0	4.5	4.8	5.9
47.5°	2.2	2.9	3.3	3.3	3.3	3.5	3.8	4.3	4.9	5.1	7.4
45°	2.2	3.0	3.3	3.3	3.3	3.7	4.1	4.7	5.2	6.3	8.7
42.5°	2.2	3.0	3.3	3.3	3.3	3.8	4.3	5.0	5.6	7.4	11.2
40°	2.2	3.0	3.3	3.3	3.4	4.0	4.6	5.2	6.0	8.3	13.8
37.5°	2.2	3.1	3.3	3.3	3.5	4.1	4.8	5.5	6.8	9.5	16.3
35°	2.2	3.1	3.3	3.3	3.6	4.3	5.1	5.8	7.5	11.8	18.4
32.5°	2.2	3.1	3.3	3.3	3.7	4.5	5.3	6.1	8.1	14.1	20.2
30°	2.2	3.2	3.3	3.3	3.8	4.7	5.5	6.4	8.6	16.3	22.1
27.5°	2.2	3.2	3.3	3.3	4.0	4.9	5.7	6.8	9.6	18.6	24.0
25°	2.2	3.2	3.3	3.3	4.0	5.0	5.9	7.2	11.4	20.4	26.1
22.5°	2.2	3.2	3.3	3.3	4.1	5.2	6.1	7.6	13.1	22.0	29.8
20°	2.2	3.2	3.3	3.3	4.2	5.3	6.3	7.9	14.7	23.6	33.7
17.5°	2.2	3.2	3.3	3.3	4.3	5.3	6.4	8.2	16.2	25.1	37.8
15°	2.2	3.3	3.3	3.3	4.3	5.4	6.6	8.5	17.6	26.6	42.0
12.5°	2.2	3.3	3.3	3.3	4.4	5.5	6.9	9.0	19.3	28.0	46.2
10°	2.2	3.3	3.3	3.3	4.4	5.5	7.1	9.5	21.1	30.3	51.0
7.5°	2.2	3.3	3.3	3.3	4.5	5.6	7.3	9.9	22.8	32.7	56.8
5°	2.2	3.3	3.3	3.3	4.5	5.6	7.5	10.4	24.3	34.9	62.5
2.5°	2.2	3.3	3.3	3.3	4.5	5.6	7.6	10.8	25.7	37.1	67.8
0°	2.2	3.3	3.3	3.3	4.5	5.6	7.8	11.2	26.8	39.0	72.5
-2.5°	2.2	3.3	3.4	3.5	4.7	6.1	9.1	14.7	32.9	49.0	85.4
-5°	2.2	3.3	3.4	3.6	4.9	6.5	10.4	18.0	38.7	58.6	97.5
-7.5°	2.2	3.3	3.5	3.7	5.0	7.0	11.6	21.1	44.0	67.7	108.6
-10°	2.2	3.3	3.5	3.9	5.2	7.4	12.6	24.0	48.7	75.9	118.6
-12.5°	2.2	3.3	3.5	4.0	5.4	7.7	13.6	26.4	52.6	83.3	128.7
-15°	2.2	3.3	3.6	4.2	5.5	8.0	14.3	28.4	56.2	89.9	137.6
-17.5°	2.2	3.3	3.6	4.3	5.6	8.3	14.9	30.2	59.3	95.5	144.4
-20°	2.2	3.2	3.7	4.4	5.7	8.5	15.5	31.8	61.4	99.9	148.9



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.2	3.2	3.7	4.5	5.9	8.6	16.0	32.6	62.4	103.0	151.0
-25°	2.2	3.2	3.7	4.6	6.0	8.7	16.1	32.8	62.2	104.7	150.4
-27.5°	2.2	3.2	3.7	4.6	6.0	8.8	15.9	32.2	60.8	104.8	151.8
-30°	2.2	3.2	3.7	4.7	6.1	8.7	15.3	30.7	59.4	102.9	151.5
-32.5°	2.2	3.2	3.7	4.7	6.2	8.6	14.2	29.7	57.7	99.4	149.3
-35°	2.2	3.2	3.7	4.8	6.2	8.3	13.6	28.4	54.7	94.0	145.2
-37.5°	2.2	3.1	3.7	4.8	6.2	8.1	13.3	26.4	50.5	87.0	135.9
-40°	2.2	3.1	3.7	4.8	6.2	8.1	12.8	23.8	45.2	80.4	124.4
-42.5°	2.2	3.1	3.7	4.7	6.1	8.0	12.1	20.5	40.5	71.9	111.2
-45°	2.2	3.1	3.7	4.7	6.1	7.9	11.3	17.8	36.0	62.1	96.9
-47.5°	2.2	3.1	3.6	4.6	6.0	7.8	10.3	16.6	30.4	51.1	84.4
-50°	2.2	3.1	3.6	4.6	5.9	7.6	10.0	15.2	23.8	43.5	70.4
-52.5°	2.2	3.0	3.5	4.5	5.8	7.3	9.6	13.6	20.3	35.2	55.7
-55°	2.2	3.0	3.4	4.4	5.6	7.1	9.2	11.9	18.1	26.3	45.4
-57.5°	2.2	3.0	3.4	4.3	5.5	6.9	8.7	11.3	15.6	22.0	34.4
-60°	2.2	3.0	3.3	4.2	5.3	6.6	8.2	10.6	13.4	19.0	25.4
-62.5°	2.2	3.0	3.3	4.0	5.1	6.4	7.8	9.8	12.5	15.9	21.7
-65°	2.2	3.0	3.3	3.9	4.9	6.1	7.5	9.1	11.6	14.3	17.9
-67.5°	2.2	2.9	3.3	3.7	4.7	5.8	7.0	8.6	10.5	13.0	15.7
-70°	2.2	2.9	3.3	3.6	4.4	5.4	6.6	8.1	9.8	11.8	14.2
-72.5°	2.2	2.9	3.3	3.5	4.2	5.1	6.1	7.5	9.0	10.8	12.7
-75°	2.2	2.9	3.3	3.5	3.9	4.7	5.6	6.8	8.2	9.8	11.4
-77.5°	2.2	2.9	3.3	3.5	3.8	4.3	5.1	6.2	7.4	8.7	10.2
-80°	2.2	2.8	3.3	3.4	3.7	4.1	4.5	5.5	6.5	7.6	8.9
-82.5°	2.2	2.8	3.3	3.4	3.6	3.9	4.2	4.8	5.6	6.5	7.5
-85°	2.2	2.8	3.3	3.4	3.5	3.7	3.9	4.3	4.9	5.5	6.2
-87.5°	2.2	2.8	3.3	3.3	3.4	3.5	3.6	3.8	4.1	4.4	4.7
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	3.6	3.9	4.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	1.9	1.7	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.9	1.7	1.4	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.1
82.5°	2.0	1.9	1.9	1.9	1.8	1.6	1.4	1.3	1.3	1.3	1.2
80°	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	1.9	1.8	1.6
77.5°	2.2	2.2	2.2	2.2	2.2	2.3	2.5	2.7	2.7	2.6	2.5
75°	2.2	2.2	2.3	2.2	2.3	2.6	2.9	3.2	3.2	3.1	3.1
72.5°	2.4	2.5	2.5	2.3	2.5	2.9	3.2	3.3	4.0	4.9	5.5
70°	2.8	2.9	2.8	2.9	3.1	3.6	4.7	6.3	7.9	9.0	10.5
67.5°	3.2	3.1	3.1	3.4	4.2	5.5	7.3	11.2	15.6	17.4	18.2
65°	3.3	3.3	3.6	4.3	5.5	8.8	13.1	18.2	23.5	24.7	24.6
62.5°	3.3	3.5	4.1	5.8	8.9	13.1	18.7	24.4	30.0	29.1	25.7
60°	3.4	3.6	5.6	8.9	12.7	18.2	24.3	27.4	29.2	29.0	24.9
57.5°	3.6	4.9	8.3	12.5	17.8	22.6	24.5	26.4	27.4	28.3	23.5
55°	4.5	7.1	11.4	17.0	21.3	22.3	23.4	24.1	25.0	23.2	17.9
52.5°	6.5	9.7	15.3	20.2	22.1	21.9	20.8	20.9	19.3	16.9	14.3
50°	8.4	13.3	18.7	21.7	22.6	21.0	18.0	17.1	15.5	13.5	11.7
47.5°	11.3	16.9	20.7	23.3	22.7	20.4	16.9	14.8	13.2	12.6	10.8
45°	14.4	19.4	23.0	24.1	22.9	19.9	17.1	13.4	14.1	14.0	13.9
42.5°	17.5	21.5	24.5	25.4	22.9	20.9	18.5	17.6	17.4	19.7	21.2
40°	19.4	23.4	26.3	26.6	23.8	23.3	25.0	26.1	25.1	28.9	32.1
37.5°	21.1	25.5	29.0	30.4	26.9	29.7	33.9	45.6	46.8	40.1	51.3
35°	22.8	27.9	34.5	39.7	39.6	39.8	57.8	75.7	84.0	73.5	83.3
32.5°	24.8	30.6	42.1	55.7	66.9	68.6	88.2	124.5	141.5	142.2	140.9
30°	27.7	37.8	53.9	76.2	104.6	132.1	146.9	186.8	214.2	261.1	296.6
27.5°	31.8	47.1	73.8	111.0	155.7	210.3	243.5	266.6	334.1	421.7	516.2
25°	36.5	65.7	96.7	155.6	231.6	300.9	343.2	371.0	488.9	662.8	784.4
22.5°	46.6	89.7	130.2	206.3	317.3	395.2	439.9	529.3	712.2	945.6	1089.6
20°	64.1	119.1	169.6	252.5	404.9	491.7	534.0	711.5	993.7	1233.1	1431.5
17.5°	84.3	148.7	208.7	306.6	454.2	566.0	637.9	906.5	1293.7	1508.7	1735.9
15°	106.6	178.3	243.5	354.7	501.6	609.9	765.5	1141.5	1568.0	1773.3	2007.8
12.5°	130.1	207.5	274.3	396.9	548.4	650.6	879.8	1309.2	1709.6	1987.6	2291.8
10°	154.1	236.0	301.4	433.3	593.5	687.9	987.1	1449.0	1784.5	2046.0	2400.9
7.5°	169.0	255.6	323.7	464.1	636.0	722.1	1085.1	1561.8	1837.7	2080.5	2415.8
5°	179.8	265.1	334.6	485.1	665.6	749.3	1165.1	1648.8	1872.2	2094.3	2389.3
2.5°	187.7	272.4	343.9	500.9	683.8	768.0	1202.6	1682.3	1895.1	2111.2	2393.2
0°	192.9	277.7	351.3	511.9	695.9	784.0	1222.2	1693.9	1909.2	2125.5	2433.3
-2.5°	199.7	285.3	363.0	523.1	699.0	787.5	1225.1	1689.4	1917.3	2159.7	2476.6
-5°	204.3	290.8	372.3	529.4	696.7	788.0	1209.7	1665.3	1905.6	2151.3	2459.9
-7.5°	206.9	294.2	379.1	529.9	684.8	776.1	1157.2	1589.4	1840.2	2070.7	2374.1
-10°	209.1	298.9	385.4	520.9	661.7	755.3	1083.2	1499.3	1767.6	1979.9	2264.8
-12.5°	216.2	305.4	390.1	510.0	638.1	731.9	992.6	1397.8	1689.2	1880.2	2146.9
-15°	221.1	310.6	392.9	498.1	615.2	706.0	886.1	1287.1	1629.5	1844.0	2072.7
-17.5°	224.0	314.8	393.9	486.1	594.3	677.8	769.1	1184.4	1582.0	1824.4	2035.5
-20°	224.8	318.2	393.2	474.7	575.9	661.0	743.2	1059.8	1465.8	1793.2	2002.7



REPORT NUMBER: P731434 (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°	223.8	320.9	392.2	469.5	564.0	653.5	733.3	922.1	1312.3	1748.2	1960.8
-25°	223.1	317.1	392.0	462.2	550.6	644.3	723.0	793.3	1139.8	1575.0	1904.3
-27.5°	221.7	311.2	384.1	450.5	533.9	631.5	710.9	780.3	980.8	1378.3	1815.7
-30°	216.7	295.4	373.3	436.0	517.0	609.9	697.2	770.7	845.7	1177.5	1585.5
-32.5°	205.5	278.1	355.5	421.9	495.9	584.9	677.7	753.8	830.0	951.7	1338.8
-35°	193.6	261.7	334.6	404.3	470.5	556.0	644.7	731.3	807.0	886.7	1075.5
-37.5°	184.5	243.8	312.9	382.4	448.0	523.2	608.1	695.7	777.3	859.5	952.5
-40°	173.4	224.4	291.3	357.8	423.3	491.2	569.6	652.3	737.9	832.5	919.7
-42.5°	160.2	209.9	268.5	332.5	396.0	461.2	528.9	607.2	696.6	796.7	889.0
-45°	143.6	193.4	245.1	305.1	366.5	428.6	492.9	560.8	650.4	746.0	844.0
-47.5°	125.1	174.2	224.1	275.4	334.4	394.2	454.3	522.8	598.6	687.5	782.8
-50°	105.9	151.3	200.1	247.5	299.5	357.0	414.9	481.0	552.3	626.4	709.9
-52.5°	88.3	126.3	171.8	218.9	265.6	316.6	373.1	434.8	500.9	571.3	640.0
-55°	69.2	103.2	141.0	185.8	231.9	277.4	326.0	382.5	443.3	507.7	571.9
-57.5°	53.8	79.3	111.8	149.2	192.8	238.0	281.3	326.4	379.6	437.4	493.6
-60°	40.3	58.5	83.2	114.9	150.0	191.7	234.8	276.5	318.8	361.4	411.1
-62.5°	28.0	42.1	59.2	81.1	111.2	143.8	181.6	221.3	261.6	298.3	334.6
-65°	23.5	28.2	40.0	56.0	72.9	100.5	130.8	162.5	197.9	229.5	262.2
-67.5°	18.8	23.1	27.4	33.7	48.3	64.3	81.4	108.2	135.8	158.6	182.0
-70°	16.4	18.3	21.8	25.6	29.2	35.7	49.7	64.6	79.4	94.3	113.4
-72.5°	14.4	16.1	17.8	19.7	22.7	25.8	28.9	32.1	40.5	51.8	62.2
-75°	12.7	13.8	15.2	16.7	18.2	19.6	21.2	23.7	26.4	29.0	31.5
-77.5°	11.1	11.9	12.8	13.8	14.9	16.1	17.3	18.4	19.5	20.6	21.7
-80°	9.5	10.0	10.6	11.3	12.0	12.8	13.7	14.6	15.3	16.0	16.7
-82.5°	8.0	8.3	8.7	9.1	9.4	9.8	10.1	10.7	11.2	11.7	12.1
-85°	6.5	6.7	6.9	7.2	7.4	7.6	7.9	8.1	8.3	8.5	8.6
-87.5°	5.0	5.3	5.5	5.8	5.8	5.9	6.0	6.1	6.1	6.2	6.2
-90°	1.9	1.7	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



REPORT NUMBER: P731434 (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°	4.5	4.8	5.1	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.6
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.4	1.4	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	2.4	2.2	2.1	1.9	1.7	1.6	1.5	1.3	1.1	1.1	1.1
75°	3.2	3.3	3.3	3.1	2.8	2.6	2.4	2.2	2.0	2.0	2.1
72.5°	5.9	5.9	5.7	5.6	5.2	5.1	5.1	5.1	4.9	5.0	5.2
70°	11.4	11.7	11.5	10.7	9.6	8.7	8.2	7.6	6.7	6.6	7.0
67.5°	18.0	17.2	16.2	14.8	12.8	11.2	10.3	9.4	8.6	8.4	8.6
65°	22.9	19.4	17.0	15.1	13.5	11.9	10.8	9.8	8.7	8.1	8.0
62.5°	22.1	18.1	15.5	13.7	12.3	11.0	9.6	8.3	7.1	6.3	6.3
60°	20.7	16.4	13.0	11.3	9.9	9.0	7.8	6.8	6.1	5.6	5.7
57.5°	17.6	12.9	9.8	9.1	8.2	7.2	6.4	6.0	5.7	5.6	5.6
55°	13.6	10.9	9.1	8.1	7.1	6.2	5.6	5.8	5.8	5.6	5.8
52.5°	11.2	9.6	8.4	7.4	7.0	6.7	6.6	6.6	6.7	6.9	7.1
50°	10.0	8.9	8.4	7.7	7.7	7.7	7.7	8.0	8.4	8.5	8.4
47.5°	10.1	9.7	10.2	8.8	9.1	9.9	10.0	10.0	10.8	11.0	10.9
45°	12.8	15.4	15.5	14.2	13.5	16.4	16.6	15.1	23.1	22.7	17.2
42.5°	22.8	24.3	24.4	25.8	28.6	37.5	54.1	69.1	71.4	62.8	43.1
40°	36.8	35.5	38.3	46.0	68.1	88.3	103.7	149.5	149.1	116.7	117.6
37.5°	59.8	58.5	62.8	86.0	93.2	80.6	113.5	116.7	99.9	119.1	120.8
35°	103.0	116.8	101.8	126.4	127.6	114.2	122.5	136.7	116.5	139.5	149.4
32.5°	187.8	212.1	214.4	212.5	225.2	237.6	230.3	264.8	271.0	293.9	319.2
30°	305.1	351.9	387.7	380.8	401.8	438.7	450.7	503.5	556.0	588.6	668.5
27.5°	531.7	555.4	628.7	680.3	668.3	728.6	848.1	885.1	1035.9	1108.1	1212.0
25°	842.0	884.0	988.5	1111.0	1163.4	1264.4	1458.5	1551.4	1749.4	1850.5	2231.7
22.5°	1226.4	1368.5	1499.6	1664.2	1900.5	2101.1	2316.9	2679.7	3269.1	4116.0	5127.0
20°	1665.3	1903.4	2101.7	2405.8	2797.4	3174.7	3733.1	5342.9	7052.6	10618.8	13041.8
17.5°	2080.5	2458.5	2735.5	3139.4	3717.8	4662.4	6585.7	10184.0	15839.2	22747.6	29342.1
15°	2404.5	2790.9	3304.3	3913.9	4797.4	6645.9	10159.1	17271.5	28053.5	38580.3	49656.3
12.5°	2678.3	3086.9	3649.6	4475.5	5796.9	9119.5	15436.2	26150.1	40363.6	56034.7	72592.7
10°	2854.6	3350.7	4024.6	5115.3	7311.2	12031.7	20243.6	34600.5	53705.8	74166.0	92569.9
7.5°	2885.6	3491.0	4344.7	5671.3	8813.8	15069.7	25961.7	42850.8	63775.0	86819.1	109997.3
5°	2897.9	3621.6	4615.1	6108.1	9846.0	17267.3	29255.7	48136.5	71370.0	95036.5	119981.8
2.5°	2931.0	3749.9	4813.6	6413.7	10441.4	18577.6	31159.2	51922.7	76433.9	102132.9	129945.4
0°	2999.8	3884.1	4856.5	6465.7	10566.2	18605.4	32257.3	54092.2	79736.6	105700.9	134710.9
-2.5°	3037.1	3866.9	4820.3	6359.6	10405.4	18608.3	31202.0	52582.8	78014.3	103347.2	132580.9
-5°	2973.0	3694.2	4597.3	6039.0	9701.4	17120.2	29105.7	48685.3	72158.5	94935.6	118443.5
-7.5°	2835.6	3451.3	4280.4	5583.8	8609.9	14813.6	25316.7	41394.1	61326.6	81128.0	99442.6
-10°	2675.5	3193.8	3873.8	4923.0	7067.3	11713.0	19809.0	32459.2	49580.1	66578.8	82034.6
-12.5°	2502.6	2906.3	3409.7	4135.5	5470.4	8844.0	15012.6	24708.4	36546.9	49370.4	63409.1
-15°	2354.9	2652.5	3034.1	3652.2	4670.5	6588.7	10077.3	16529.4	25018.5	35071.5	45420.1
-17.5°	2255.6	2476.9	2809.2	3280.7	3906.6	5046.0	7570.9	11396.2	16858.4	24382.4	31217.1
-20°	2184.4	2392.5	2656.2	3027.5	3551.7	4354.9	5590.4	8227.0	11821.3	16698.0	21337.3



REPORT NUMBER: P731434 (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°	2133.6	2320.8	2543.6	2842.4	3310.6	3938.3	4726.9	6006.5	8270.1	11146.0	14371.2
-25°	2083.6	2238.8	2484.6	2805.8	3127.7	3576.9	4121.9	4750.1	5956.0	7234.7	9214.4
-27.5°	2026.3	2218.5	2493.1	2793.2	3083.1	3306.0	3693.0	4126.3	4764.8	5382.9	6400.1
-30°	1984.7	2230.4	2503.6	2792.0	3015.4	3212.4	3428.8	3760.0	4173.1	4610.0	5077.6
-32.5°	1777.3	2193.8	2474.3	2732.8	2917.6	3100.7	3292.3	3522.1	3786.2	4063.0	4347.0
-35°	1499.3	1943.0	2378.1	2580.7	2767.9	2952.6	3152.5	3338.7	3525.0	3712.2	3890.5
-37.5°	1158.6	1593.3	2004.4	2358.5	2573.5	2761.5	2974.6	3165.7	3329.1	3469.8	3607.0
-40°	1012.2	1164.0	1561.6	1934.3	2247.2	2545.2	2746.0	2957.6	3139.9	3269.6	3386.2
-42.5°	971.9	1057.4	1145.5	1431.3	1776.8	2083.0	2355.5	2620.2	2870.8	3051.2	3189.8
-45°	936.8	1009.2	1084.8	1169.1	1253.2	1521.7	1805.0	2090.2	2385.1	2649.0	2862.8
-47.5°	872.1	959.8	1034.1	1103.9	1170.9	1247.2	1326.2	1439.7	1698.5	1962.7	2203.4
-50°	792.2	874.3	957.2	1039.7	1101.7	1160.3	1220.3	1288.1	1363.5	1440.5	1505.3
-52.5°	705.1	780.6	857.1	929.9	999.4	1066.8	1132.7	1192.5	1248.6	1302.9	1334.7
-55°	634.3	694.8	755.1	817.4	880.8	942.5	1003.8	1065.5	1125.0	1181.8	1213.6
-57.5°	551.8	612.1	669.8	717.4	766.5	816.7	869.1	922.3	974.4	1023.0	1050.3
-60°	462.2	514.5	564.5	610.7	656.2	700.7	743.6	785.8	826.4	861.6	883.1
-62.5°	372.1	414.7	456.1	495.4	533.6	571.1	611.3	649.4	685.3	714.3	732.1
-65°	295.3	327.7	356.6	384.8	412.7	444.8	479.0	511.4	541.7	565.4	581.0
-67.5°	209.1	237.1	263.5	288.6	311.8	334.7	359.0	382.8	405.7	423.4	435.9
-70°	131.8	149.4	166.8	185.4	205.6	225.8	245.8	264.3	281.1	293.8	303.4
-72.5°	71.8	80.3	89.2	102.3	115.0	128.4	142.2	155.2	167.4	175.9	182.3
-75°	34.1	37.9	44.7	50.8	56.2	62.2	68.1	73.6	78.7	81.3	82.8
-77.5°	23.4	25.2	26.9	28.5	29.8	31.6	33.5	35.4	37.3	38.5	39.5
-80°	17.4	18.2	18.9	19.7	20.4	21.2	22.0	22.7	23.4	24.0	24.6
-82.5°	12.5	13.0	13.3	13.7	14.0	14.6	15.1	15.6	16.1	16.6	17.0
-85°	8.8	9.0	9.3	9.4	9.6	9.9	10.3	10.6	11.0	11.0	11.1
-87.5°	6.3	6.6	7.0	7.3	7.6	7.6	7.7	7.7	7.7	7.7	7.8
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.6



REPORT NUMBER: P731434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	5.6	5.6	6.2	6.7	6.2	5.6	5.6	5.6	5.6	5.6	5.6
87.5°	0.3	0.0	0.5	1.1	0.5	0.0	0.3	0.6	0.8	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	1.6	2.2	1.6	1.1	1.1	1.1	1.1	1.1	1.3
75°	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.2
72.5°	5.4	5.5	5.6	5.6	5.6	5.5	5.4	5.2	5.0	4.9	5.1
70°	7.3	7.7	7.8	7.8	7.8	7.7	7.3	7.0	6.6	6.7	7.6
67.5°	8.8	8.9	8.9	8.9	8.9	8.9	8.8	8.6	8.4	8.6	9.4
65°	7.9	7.8	7.3	6.7	7.3	7.8	7.9	8.0	8.1	8.7	9.8
62.5°	6.5	6.7	6.7	6.7	6.7	6.7	6.5	6.3	6.3	7.1	8.3
60°	5.7	5.7	5.6	5.6	5.6	5.7	5.7	5.7	5.6	6.1	6.8
57.5°	5.6	5.6	6.0	6.7	6.0	5.6	5.6	5.6	5.6	5.7	6.0
55°	6.2	6.5	6.7	6.7	6.7	6.5	6.2	5.8	5.6	5.8	5.8
52.5°	7.0	6.8	6.7	6.7	6.7	6.8	7.0	7.1	6.9	6.7	6.6
50°	8.1	7.9	7.8	7.8	7.8	7.9	8.1	8.4	8.5	8.4	8.0
47.5°	10.7	10.2	10.0	10.0	10.0	10.2	10.7	10.9	11.0	10.8	10.0
45°	17.6	17.6	17.6	17.8	17.6	17.6	17.6	17.2	22.7	23.1	15.1
42.5°	41.4	35.7	30.9	31.2	30.9	35.7	41.4	43.1	62.8	71.4	69.1
40°	106.0	79.3	52.7	44.6	52.7	79.3	106.0	117.6	116.7	149.1	149.5
37.5°	109.1	111.3	131.0	176.2	131.0	111.3	109.1	120.8	119.1	99.9	116.7
35°	152.4	154.8	149.3	146.1	149.3	154.8	152.4	149.4	139.5	116.5	136.7
32.5°	324.2	338.6	336.8	327.9	336.8	338.6	324.2	319.2	293.9	271.0	264.8
30°	698.3	734.8	730.8	738.2	730.8	734.8	698.3	668.5	588.6	556.0	503.5
27.5°	1253.2	1298.3	1306.5	1296.9	1306.5	1298.3	1253.2	1212.0	1108.1	1035.9	885.1
25°	2487.7	2559.0	2533.0	2499.1	2533.0	2559.0	2487.7	2231.7	1850.5	1749.4	1551.4
22.5°	6308.9	6591.3	6562.3	6324.1	6562.3	6591.3	6308.9	5127.0	4116.0	3269.1	2679.7
20°	17333.1	19198.2	20009.9	18909.9	20009.9	19198.2	17333.1	13041.8	10618.8	7052.6	5342.9
17.5°	36687.9	42370.5	46411.1	48097.1	46411.1	42370.5	36687.9	29342.1	22747.6	15839.2	10184.0
15°	60012.0	68566.2	73541.1	72872.7	73541.1	68566.2	60012.0	49656.3	38580.3	28053.5	17271.5
12.5°	86294.3	96433.0	104835.4	105013.5	104835.4	96433.0	86294.3	72592.7	56034.7	40363.6	26150.1
10°	111715.9	125787.6	137255.8	139478.2	137255.8	125787.6	111715.9	92569.9	74166.0	53705.8	34600.5
7.5°	130788.0	152359.7	166755.5	172030.5	166755.5	152359.7	130788.0	109997.3	86819.1	63775.0	42850.8
5°	149635.6	172239.4	186907.9	189510.1	186907.9	172239.4	149635.6	119981.8	95036.5	71370.0	48136.5
2.5°	162348.1	185149.1	197985.4	206888.9	197985.4	185149.1	162348.1	129945.4	102132.9	76433.9	51922.7
0°	169794.5	188372.7	209612.6	219481.3	209612.6	188372.7	169794.5	134710.9	105700.9	79736.6	54092.2
-2.5°	164164.4	185064.3	197224.6	208438.9	197224.6	185064.3	164164.4	132580.9	103347.2	78014.3	52582.8
-5°	145518.0	168247.8	178990.7	180392.5	178990.7	168247.8	145518.0	118443.5	94935.6	72158.5	48685.3
-7.5°	118905.3	140068.5	150382.9	156076.9	150382.9	140068.5	118905.3	99442.6	81128.0	61326.6	41394.1
-10°	96254.9	108605.5	115549.0	116006.2	115549.0	108605.5	96254.9	82034.6	66578.8	49580.1	32459.2
-12.5°	74313.9	82598.1	86704.9	86554.7	86704.9	82598.1	74313.9	63409.1	49370.4	36546.9	24708.4
-15°	54532.8	60968.9	64673.1	66449.4	64673.1	60968.9	54532.8	45420.1	35071.5	25018.5	16529.4
-17.5°	38491.1	43603.9	47315.7	48815.3	47315.7	43603.9	38491.1	31217.1	24382.4	16858.4	11396.2
-20°	26240.6	29744.7	32152.8	33175.1	32152.8	29744.7	26240.6	21337.3	16698.0	11821.3	8227.0



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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°	17284.4	19633.5	21284.6	21196.0	21284.6	19633.5	17284.4	14371.2	11146.0	8270.1	6006.5
-25°	11018.5	12310.2	13158.3	13227.0	13158.3	12310.2	11018.5	9214.4	7234.7	5956.0	4750.1
-27.5°	7292.8	7860.6	8202.8	8262.3	8202.8	7860.6	7292.8	6400.1	5382.9	4764.8	4126.3
-30°	5519.7	5781.0	5976.6	5968.4	5976.6	5781.0	5519.7	5077.6	4610.0	4173.1	3760.0
-32.5°	4588.7	4717.3	4802.9	4872.2	4802.9	4717.3	4588.7	4347.0	4063.0	3786.2	3522.1
-35°	4012.8	4078.3	4126.1	4169.6	4126.1	4078.3	4012.8	3890.5	3712.2	3525.0	3338.7
-37.5°	3686.0	3731.3	3761.3	3771.5	3761.3	3731.3	3686.0	3607.0	3469.8	3329.1	3165.7
-40°	3430.7	3456.3	3471.5	3480.4	3471.5	3456.3	3430.7	3386.2	3269.6	3139.9	2957.6
-42.5°	3239.2	3274.2	3292.3	3292.0	3292.3	3274.2	3239.2	3189.8	3051.2	2870.8	2620.2
-45°	2985.3	3073.9	3127.6	3150.3	3127.6	3073.9	2985.3	2862.8	2649.0	2385.1	2090.2
-47.5°	2400.8	2568.9	2686.9	2748.9	2686.9	2568.9	2400.8	2203.4	1962.7	1698.5	1439.7
-50°	1563.7	1619.9	1643.6	1633.7	1643.6	1619.9	1563.7	1505.3	1440.5	1363.5	1288.1
-52.5°	1358.4	1378.5	1390.8	1396.2	1390.8	1378.5	1358.4	1334.7	1302.9	1248.6	1192.5
-55°	1240.4	1262.8	1277.3	1284.7	1277.3	1262.8	1240.4	1213.6	1181.8	1125.0	1065.5
-57.5°	1073.1	1091.2	1102.3	1107.4	1102.3	1091.2	1073.1	1050.3	1023.0	974.4	922.3
-60°	901.3	916.2	926.0	931.2	926.0	916.2	901.3	883.1	861.6	826.4	785.8
-62.5°	746.5	757.5	767.1	773.9	767.1	757.5	746.5	732.1	714.3	685.3	649.4
-65°	593.7	603.5	610.5	614.5	610.5	603.5	593.7	581.0	565.4	541.7	511.4
-67.5°	446.2	454.1	460.7	465.0	460.7	454.1	446.2	435.9	423.4	405.7	382.8
-70°	311.2	317.1	322.7	326.7	322.7	317.1	311.2	303.4	293.8	281.1	264.3
-72.5°	187.3	191.0	192.7	192.9	192.7	191.0	187.3	182.3	175.9	167.4	155.2
-75°	83.6	83.9	85.6	87.0	85.6	83.9	83.6	82.8	81.3	78.7	73.6
-77.5°	40.3	41.0	41.8	42.4	41.8	41.0	40.3	39.5	38.5	37.3	35.4
-80°	25.0	25.5	25.6	25.6	25.6	25.5	25.0	24.6	24.0	23.4	22.7
-82.5°	17.4	17.7	17.8	17.8	17.8	17.7	17.4	17.0	16.6	16.1	15.6
-85°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.1	11.0	11.0	10.6
-87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.7	7.7	7.7
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.6	5.6	5.6	5.3	5.1	4.8	4.5	4.5	4.5	4.5	4.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.3
80°	1.1	1.1	1.1	1.3	1.4	1.4	1.4	1.6	1.8	1.9	2.0
77.5°	1.5	1.6	1.7	1.9	2.1	2.2	2.4	2.5	2.6	2.7	2.7
75°	2.4	2.6	2.8	3.1	3.3	3.3	3.2	3.1	3.1	3.2	3.2
72.5°	5.1	5.1	5.2	5.6	5.7	5.9	5.9	5.5	4.9	4.0	3.3
70°	8.2	8.7	9.6	10.7	11.5	11.7	11.4	10.5	9.0	7.9	6.3
67.5°	10.3	11.2	12.8	14.8	16.2	17.2	18.0	18.2	17.4	15.6	11.2
65°	10.8	11.9	13.5	15.1	17.0	19.4	22.9	24.6	24.7	23.5	18.2
62.5°	9.6	11.0	12.3	13.7	15.5	18.1	22.1	25.7	29.1	30.0	24.4
60°	7.8	9.0	9.9	11.3	13.0	16.4	20.7	24.9	29.0	29.2	27.4
57.5°	6.4	7.2	8.2	9.1	9.8	12.9	17.6	23.5	28.3	27.4	26.4
55°	5.6	6.2	7.1	8.1	9.1	10.9	13.6	17.9	23.2	25.0	24.1
52.5°	6.6	6.7	7.0	7.4	8.4	9.6	11.2	14.3	16.9	19.3	20.9
50°	7.7	7.7	7.7	7.7	8.4	8.9	10.0	11.7	13.5	15.5	17.1
47.5°	10.0	9.9	9.1	8.8	10.2	9.7	10.1	10.8	12.6	13.2	14.8
45°	16.6	16.4	13.5	14.2	15.5	15.4	12.8	13.9	14.0	14.1	13.4
42.5°	54.1	37.5	28.6	25.8	24.4	24.3	22.8	21.2	19.7	17.4	17.6
40°	103.7	88.3	68.1	46.0	38.3	35.5	36.8	32.1	28.9	25.1	26.1
37.5°	113.5	80.6	93.2	86.0	62.8	58.5	59.8	51.3	40.1	46.8	45.6
35°	122.5	114.2	127.6	126.4	101.8	116.8	103.0	83.3	73.5	84.0	75.7
32.5°	230.3	237.6	225.2	212.5	214.4	212.1	187.8	140.9	142.2	141.5	124.5
30°	450.7	438.7	401.8	380.8	387.7	351.9	305.1	296.6	261.1	214.2	186.8
27.5°	848.1	728.6	668.3	680.3	628.7	555.4	531.7	516.2	421.7	334.1	266.6
25°	1458.5	1264.4	1163.4	1111.0	988.5	884.0	842.0	784.4	662.8	488.9	371.0
22.5°	2316.9	2101.1	1900.5	1664.2	1499.6	1368.5	1226.4	1089.6	945.6	712.2	529.3
20°	3733.1	3174.7	2797.4	2405.8	2101.7	1903.4	1665.3	1431.5	1233.1	993.7	711.5
17.5°	6585.7	4662.4	3717.8	3139.4	2735.5	2458.5	2080.5	1735.9	1508.7	1293.7	906.5
15°	10159.1	6645.9	4797.4	3913.9	3304.3	2790.9	2404.5	2007.8	1773.3	1568.0	1141.5
12.5°	15436.2	9119.5	5796.9	4475.5	3649.6	3086.9	2678.3	2291.8	1987.6	1709.6	1309.2
10°	20243.6	12031.7	7311.2	5115.3	4024.6	3350.7	2854.6	2400.9	2046.0	1784.5	1449.0
7.5°	25961.7	15069.7	8813.8	5671.3	4344.7	3491.0	2885.6	2415.8	2080.5	1837.7	1561.8
5°	29255.7	17267.3	9846.0	6108.1	4615.1	3621.6	2897.9	2389.3	2094.3	1872.2	1648.8
2.5°	31159.2	18577.6	10441.4	6413.7	4813.6	3749.9	2931.0	2393.2	2111.2	1895.1	1682.3
0°	32257.3	18605.4	10566.2	6465.7	4856.5	3884.1	2999.8	2433.3	2125.5	1909.2	1693.9
-2.5°	31202.0	18608.3	10405.4	6359.6	4820.3	3866.9	3037.1	2476.6	2159.7	1917.3	1689.4
-5°	29105.7	17120.2	9701.4	6039.0	4597.3	3694.2	2973.0	2459.9	2151.3	1905.6	1665.3
-7.5°	25316.7	14813.6	8609.9	5583.8	4280.4	3451.3	2835.6	2374.1	2070.7	1840.2	1589.4
-10°	19809.0	11713.0	7067.3	4923.0	3873.8	3193.8	2675.5	2264.8	1979.9	1767.6	1499.3
-12.5°	15012.6	8844.0	5470.4	4135.5	3409.7	2906.3	2502.6	2146.9	1880.2	1689.2	1397.8
-15°	10077.3	6588.7	4670.5	3652.2	3034.1	2652.5	2354.9	2072.7	1844.0	1629.5	1287.1
-17.5°	7570.9	5046.0	3906.6	3280.7	2809.2	2476.9	2255.6	2035.5	1824.4	1582.0	1184.4
-20°	5590.4	4354.9	3551.7	3027.5	2656.2	2392.5	2184.4	2002.7	1793.2	1465.8	1059.8



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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°	4726.9	3938.3	3310.6	2842.4	2543.6	2320.8	2133.6	1960.8	1748.2	1312.3	922.1
-25°	4121.9	3576.9	3127.7	2805.8	2484.6	2238.8	2083.6	1904.3	1575.0	1139.8	793.3
-27.5°	3693.0	3306.0	3083.1	2793.2	2493.1	2218.5	2026.3	1815.7	1378.3	980.8	780.3
-30°	3428.8	3212.4	3015.4	2792.0	2503.6	2230.4	1984.7	1585.5	1177.5	845.7	770.7
-32.5°	3292.3	3100.7	2917.6	2732.8	2474.3	2193.8	1777.3	1338.8	951.7	830.0	753.8
-35°	3152.5	2952.6	2767.9	2580.7	2378.1	1943.0	1499.3	1075.5	886.7	807.0	731.3
-37.5°	2974.6	2761.5	2573.5	2358.5	2004.4	1593.3	1158.6	952.5	859.5	777.3	695.7
-40°	2746.0	2545.2	2247.2	1934.3	1561.6	1164.0	1012.2	919.7	832.5	737.9	652.3
-42.5°	2355.5	2083.0	1776.8	1431.3	1145.5	1057.4	971.9	889.0	796.7	696.6	607.2
-45°	1805.0	1521.7	1253.2	1169.1	1084.8	1009.2	936.8	844.0	746.0	650.4	560.8
-47.5°	1326.2	1247.2	1170.9	1103.9	1034.1	959.8	872.1	782.8	687.5	598.6	522.8
-50°	1220.3	1160.3	1101.7	1039.7	957.2	874.3	792.2	709.9	626.4	552.3	481.0
-52.5°	1132.7	1066.8	999.4	929.9	857.1	780.6	705.1	640.0	571.3	500.9	434.8
-55°	1003.8	942.5	880.8	817.4	755.1	694.8	634.3	571.9	507.7	443.3	382.5
-57.5°	869.1	816.7	766.5	717.4	669.8	612.1	551.8	493.6	437.4	379.6	326.4
-60°	743.6	700.7	656.2	610.7	564.5	514.5	462.2	411.1	361.4	318.8	276.5
-62.5°	611.3	571.1	533.6	495.4	456.1	414.7	372.1	334.6	298.3	261.6	221.3
-65°	479.0	444.8	412.7	384.8	356.6	327.7	295.3	262.2	229.5	197.9	162.5
-67.5°	359.0	334.7	311.8	288.6	263.5	237.1	209.1	182.0	158.6	135.8	108.2
-70°	245.8	225.8	205.6	185.4	166.8	149.4	131.8	113.4	94.3	79.4	64.6
-72.5°	142.2	128.4	115.0	102.3	89.2	80.3	71.8	62.2	51.8	40.5	32.1
-75°	68.1	62.2	56.2	50.8	44.7	37.9	34.1	31.5	29.0	26.4	23.7
-77.5°	33.5	31.6	29.8	28.5	26.9	25.2	23.4	21.7	20.6	19.5	18.4
-80°	22.0	21.2	20.4	19.7	18.9	18.2	17.4	16.7	16.0	15.3	14.6
-82.5°	15.1	14.6	14.0	13.7	13.3	13.0	12.5	12.1	11.7	11.2	10.7
-85°	10.3	9.9	9.6	9.4	9.3	9.0	8.8	8.6	8.5	8.3	8.1
-87.5°	7.7	7.6	7.6	7.3	7.0	6.6	6.3	6.2	6.2	6.1	6.1
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.5	4.5	4.5	4.5	4.2	3.9	3.6	3.3	3.3	3.3	3.3
87.5°	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2	2.2	2.2
85°	1.2	1.3	1.3	1.3	1.4	1.7	1.9	2.2	2.2	2.2	2.2
82.5°	1.4	1.6	1.8	1.9	1.9	1.9	2.0	2.2	2.2	2.2	2.2
80°	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.4	2.4	2.4
77.5°	2.5	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.5	2.6	2.6
75°	2.9	2.6	2.3	2.2	2.3	2.2	2.2	2.3	2.6	2.8	2.9
72.5°	3.2	2.9	2.5	2.3	2.5	2.5	2.4	2.3	2.6	2.8	3.1
70°	4.7	3.6	3.1	2.9	2.8	2.9	2.8	2.7	2.6	2.9	3.1
67.5°	7.3	5.5	4.2	3.4	3.1	3.1	3.2	3.0	2.9	2.9	3.2
65°	13.1	8.8	5.5	4.3	3.6	3.3	3.3	3.3	3.1	3.1	3.2
62.5°	18.7	13.1	8.9	5.8	4.1	3.5	3.3	3.5	3.3	3.2	3.2
60°	24.3	18.2	12.7	8.9	5.6	3.6	3.4	3.6	3.6	3.3	3.3
57.5°	24.5	22.6	17.8	12.5	8.3	4.9	3.6	3.8	3.8	3.5	3.3
55°	23.4	22.3	21.3	17.0	11.4	7.1	4.5	4.1	4.1	3.8	3.4
52.5°	20.8	21.9	22.1	20.2	15.3	9.7	6.5	4.4	4.4	4.2	3.7
50°	18.0	21.0	22.6	21.7	18.7	13.3	8.4	5.9	4.8	4.5	4.0
47.5°	16.9	20.4	22.7	23.3	20.7	16.9	11.3	7.4	5.1	4.9	4.3
45°	17.1	19.9	22.9	24.1	23.0	19.4	14.4	8.7	6.3	5.2	4.7
42.5°	18.5	20.9	22.9	25.4	24.5	21.5	17.5	11.2	7.4	5.6	5.0
40°	25.0	23.3	23.8	26.6	26.3	23.4	19.4	13.8	8.3	6.0	5.2
37.5°	33.9	29.7	26.9	30.4	29.0	25.5	21.1	16.3	9.5	6.8	5.5
35°	57.8	39.8	39.6	39.7	34.5	27.9	22.8	18.4	11.8	7.5	5.8
32.5°	88.2	68.6	66.9	55.7	42.1	30.6	24.8	20.2	14.1	8.1	6.1
30°	146.9	132.1	104.6	76.2	53.9	37.8	27.7	22.1	16.3	8.6	6.4
27.5°	243.5	210.3	155.7	111.0	73.8	47.1	31.8	24.0	18.6	9.6	6.8
25°	343.2	300.9	231.6	155.6	96.7	65.7	36.5	26.1	20.4	11.4	7.2
22.5°	439.9	395.2	317.3	206.3	130.2	89.7	46.6	29.8	22.0	13.1	7.6
20°	534.0	491.7	404.9	252.5	169.6	119.1	64.1	33.7	23.6	14.7	7.9
17.5°	637.9	566.0	454.2	306.6	208.7	148.7	84.3	37.8	25.1	16.2	8.2
15°	765.5	609.9	501.6	354.7	243.5	178.3	106.6	42.0	26.6	17.6	8.5
12.5°	879.8	650.6	548.4	396.9	274.3	207.5	130.1	46.2	28.0	19.3	9.0
10°	987.1	687.9	593.5	433.3	301.4	236.0	154.1	51.0	30.3	21.1	9.5
7.5°	1085.1	722.1	636.0	464.1	323.7	255.6	169.0	56.8	32.7	22.8	9.9
5°	1165.1	749.3	665.6	485.1	334.6	265.1	179.8	62.5	34.9	24.3	10.4
2.5°	1202.6	768.0	683.8	500.9	343.9	272.4	187.7	67.8	37.1	25.7	10.8
0°	1222.2	784.0	695.9	511.9	351.3	277.7	192.9	72.5	39.0	26.8	11.2
-2.5°	1225.1	787.5	699.0	523.1	363.0	285.3	199.7	85.4	49.0	32.9	14.7
-5°	1209.7	788.0	696.7	529.4	372.3	290.8	204.3	97.5	58.6	38.7	18.0
-7.5°	1157.2	776.1	684.8	529.9	379.1	294.2	206.9	108.6	67.7	44.0	21.1
-10°	1083.2	755.3	661.7	520.9	385.4	298.9	209.1	118.6	75.9	48.7	24.0
-12.5°	992.6	731.9	638.1	510.0	390.1	305.4	216.2	128.7	83.3	52.6	26.4
-15°	886.1	706.0	615.2	498.1	392.9	310.6	221.1	137.6	89.9	56.2	28.4
-17.5°	769.1	677.8	594.3	486.1	393.9	314.8	224.0	144.4	95.5	59.3	30.2
-20°	743.2	661.0	575.9	474.7	393.2	318.2	224.8	148.9	99.9	61.4	31.8



REPORT NUMBER: P731434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	733.3	653.5	564.0	469.5	392.2	320.9	223.8	151.0	103.0	62.4	32.6
-25°	723.0	644.3	550.6	462.2	392.0	317.1	223.1	150.4	104.7	62.2	32.8
-27.5°	710.9	631.5	533.9	450.5	384.1	311.2	221.7	151.8	104.8	60.8	32.2
-30°	697.2	609.9	517.0	436.0	373.3	295.4	216.7	151.5	102.9	59.4	30.7
-32.5°	677.7	584.9	495.9	421.9	355.5	278.1	205.5	149.3	99.4	57.7	29.7
-35°	644.7	556.0	470.5	404.3	334.6	261.7	193.6	145.2	94.0	54.7	28.4
-37.5°	608.1	523.2	448.0	382.4	312.9	243.8	184.5	135.9	87.0	50.5	26.4
-40°	569.6	491.2	423.3	357.8	291.3	224.4	173.4	124.4	80.4	45.2	23.8
-42.5°	528.9	461.2	396.0	332.5	268.5	209.9	160.2	111.2	71.9	40.5	20.5
-45°	492.9	428.6	366.5	305.1	245.1	193.4	143.6	96.9	62.1	36.0	17.8
-47.5°	454.3	394.2	334.4	275.4	224.1	174.2	125.1	84.4	51.1	30.4	16.6
-50°	414.9	357.0	299.5	247.5	200.1	151.3	105.9	70.4	43.5	23.8	15.2
-52.5°	373.1	316.6	265.6	218.9	171.8	126.3	88.3	55.7	35.2	20.3	13.6
-55°	326.0	277.4	231.9	185.8	141.0	103.2	69.2	45.4	26.3	18.1	11.9
-57.5°	281.3	238.0	192.8	149.2	111.8	79.3	53.8	34.4	22.0	15.6	11.3
-60°	234.8	191.7	150.0	114.9	83.2	58.5	40.3	25.4	19.0	13.4	10.6
-62.5°	181.6	143.8	111.2	81.1	59.2	42.1	28.0	21.7	15.9	12.5	9.8
-65°	130.8	100.5	72.9	56.0	40.0	28.2	23.5	17.9	14.3	11.6	9.1
-67.5°	81.4	64.3	48.3	33.7	27.4	23.1	18.8	15.7	13.0	10.5	8.6
-70°	49.7	35.7	29.2	25.6	21.8	18.3	16.4	14.2	11.8	9.8	8.1
-72.5°	28.9	25.8	22.7	19.7	17.8	16.1	14.4	12.7	10.8	9.0	7.5
-75°	21.2	19.6	18.2	16.7	15.2	13.8	12.7	11.4	9.8	8.2	6.8
-77.5°	17.3	16.1	14.9	13.8	12.8	11.9	11.1	10.2	8.7	7.4	6.2
-80°	13.7	12.8	12.0	11.3	10.6	10.0	9.5	8.9	7.6	6.5	5.5
-82.5°	10.1	9.8	9.4	9.1	8.7	8.3	8.0	7.5	6.5	5.6	4.8
-85°	7.9	7.6	7.4	7.2	6.9	6.7	6.5	6.2	5.5	4.9	4.3
-87.5°	6.0	5.9	5.8	5.8	5.5	5.3	5.0	4.7	4.4	4.1	3.8
-90°	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2	2.2	2.2



REPORT NUMBER: P731434 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	3.3	3.3	3.3	3.3	3.3	2.7	2.2
87.5°	2.2	2.3	2.3	2.3	2.3	2.2	2.2
85°	2.2	2.3	2.4	2.4	2.4	2.3	2.2
82.5°	2.2	2.4	2.5	2.5	2.5	2.3	2.2
80°	2.3	2.5	2.6	2.6	2.6	2.4	2.2
77.5°	2.5	2.6	2.7	2.7	2.7	2.4	2.2
75°	2.8	2.7	2.8	2.9	2.8	2.5	2.2
72.5°	3.1	2.9	2.9	3.0	2.9	2.5	2.2
70°	3.3	3.1	3.0	3.1	3.0	2.6	2.2
67.5°	3.3	3.2	3.1	3.1	3.0	2.6	2.2
65°	3.3	3.3	3.2	3.2	3.1	2.7	2.2
62.5°	3.3	3.3	3.2	3.2	3.2	2.7	2.2
60°	3.3	3.3	3.3	3.2	3.3	2.7	2.2
57.5°	3.4	3.3	3.3	3.2	3.3	2.8	2.2
55°	3.4	3.3	3.3	3.3	3.3	2.8	2.2
52.5°	3.5	3.3	3.3	3.3	3.3	2.9	2.2
50°	3.6	3.4	3.3	3.3	3.3	2.9	2.2
47.5°	3.8	3.5	3.3	3.3	3.3	2.9	2.2
45°	4.1	3.7	3.3	3.3	3.3	3.0	2.2
42.5°	4.3	3.8	3.3	3.3	3.3	3.0	2.2
40°	4.6	4.0	3.4	3.3	3.3	3.0	2.2
37.5°	4.8	4.1	3.5	3.3	3.3	3.1	2.2
35°	5.1	4.3	3.6	3.3	3.3	3.1	2.2
32.5°	5.3	4.5	3.7	3.3	3.3	3.1	2.2
30°	5.5	4.7	3.8	3.3	3.3	3.2	2.2
27.5°	5.7	4.9	4.0	3.3	3.3	3.2	2.2
25°	5.9	5.0	4.0	3.3	3.3	3.2	2.2
22.5°	6.1	5.2	4.1	3.3	3.3	3.2	2.2
20°	6.3	5.3	4.2	3.3	3.3	3.2	2.2
17.5°	6.4	5.3	4.3	3.3	3.3	3.2	2.2
15°	6.6	5.4	4.3	3.3	3.3	3.3	2.2
12.5°	6.9	5.5	4.4	3.3	3.3	3.3	2.2
10°	7.1	5.5	4.4	3.3	3.3	3.3	2.2
7.5°	7.3	5.6	4.5	3.3	3.3	3.3	2.2
5°	7.5	5.6	4.5	3.3	3.3	3.3	2.2
2.5°	7.6	5.6	4.5	3.3	3.3	3.3	2.2
0°	7.8	5.6	4.5	3.3	3.3	3.3	2.2
-2.5°	9.1	6.1	4.7	3.5	3.4	3.3	2.2
-5°	10.4	6.5	4.9	3.6	3.4	3.3	2.2
-7.5°	11.6	7.0	5.0	3.7	3.5	3.3	2.2
-10°	12.6	7.4	5.2	3.9	3.5	3.3	2.2
-12.5°	13.6	7.7	5.4	4.0	3.5	3.3	2.2
-15°	14.3	8.0	5.5	4.2	3.6	3.3	2.2
-17.5°	14.9	8.3	5.6	4.3	3.6	3.3	2.2
-20°	15.5	8.5	5.7	4.4	3.7	3.2	2.2



REPORT NUMBER: P731434 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	16.0	8.6	5.9	4.5	3.7	3.2	2.2
-25°	16.1	8.7	6.0	4.6	3.7	3.2	2.2
-27.5°	15.9	8.8	6.0	4.6	3.7	3.2	2.2
-30°	15.3	8.7	6.1	4.7	3.7	3.2	2.2
-32.5°	14.2	8.6	6.2	4.7	3.7	3.2	2.2
-35°	13.6	8.3	6.2	4.8	3.7	3.2	2.2
-37.5°	13.3	8.1	6.2	4.8	3.7	3.1	2.2
-40°	12.8	8.1	6.2	4.8	3.7	3.1	2.2
-42.5°	12.1	8.0	6.1	4.7	3.7	3.1	2.2
-45°	11.3	7.9	6.1	4.7	3.7	3.1	2.2
-47.5°	10.3	7.8	6.0	4.6	3.6	3.1	2.2
-50°	10.0	7.6	5.9	4.6	3.6	3.1	2.2
-52.5°	9.6	7.3	5.8	4.5	3.5	3.0	2.2
-55°	9.2	7.1	5.6	4.4	3.4	3.0	2.2
-57.5°	8.7	6.9	5.5	4.3	3.4	3.0	2.2
-60°	8.2	6.6	5.3	4.2	3.3	3.0	2.2
-62.5°	7.8	6.4	5.1	4.0	3.3	3.0	2.2
-65°	7.5	6.1	4.9	3.9	3.3	3.0	2.2
-67.5°	7.0	5.8	4.7	3.7	3.3	2.9	2.2
-70°	6.6	5.4	4.4	3.6	3.3	2.9	2.2
-72.5°	6.1	5.1	4.2	3.5	3.3	2.9	2.2
-75°	5.6	4.7	3.9	3.5	3.3	2.9	2.2
-77.5°	5.1	4.3	3.8	3.5	3.3	2.9	2.2
-80°	4.5	4.1	3.7	3.4	3.3	2.8	2.2
-82.5°	4.2	3.9	3.6	3.4	3.3	2.8	2.2
-85°	3.9	3.7	3.5	3.4	3.3	2.8	2.2
-87.5°	3.6	3.5	3.4	3.3	3.3	2.8	2.2
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2

(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

