

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: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-2S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-80-2S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

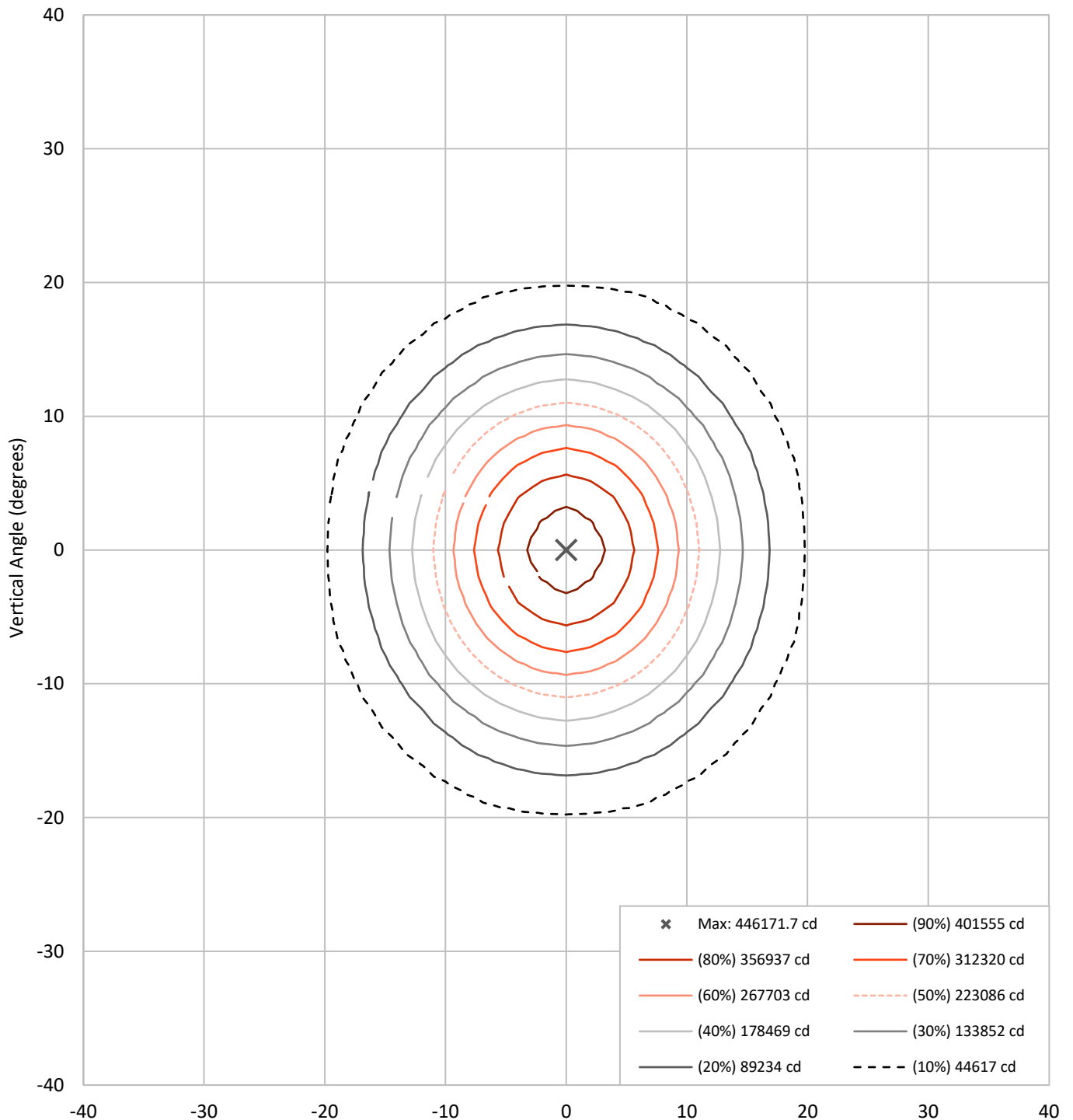
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	80369.5 lumens	Max Intensity:	446171.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	143.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	35520.7 lumens	Field Lumens:	65970.4 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%

Input Watts (W): 561.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





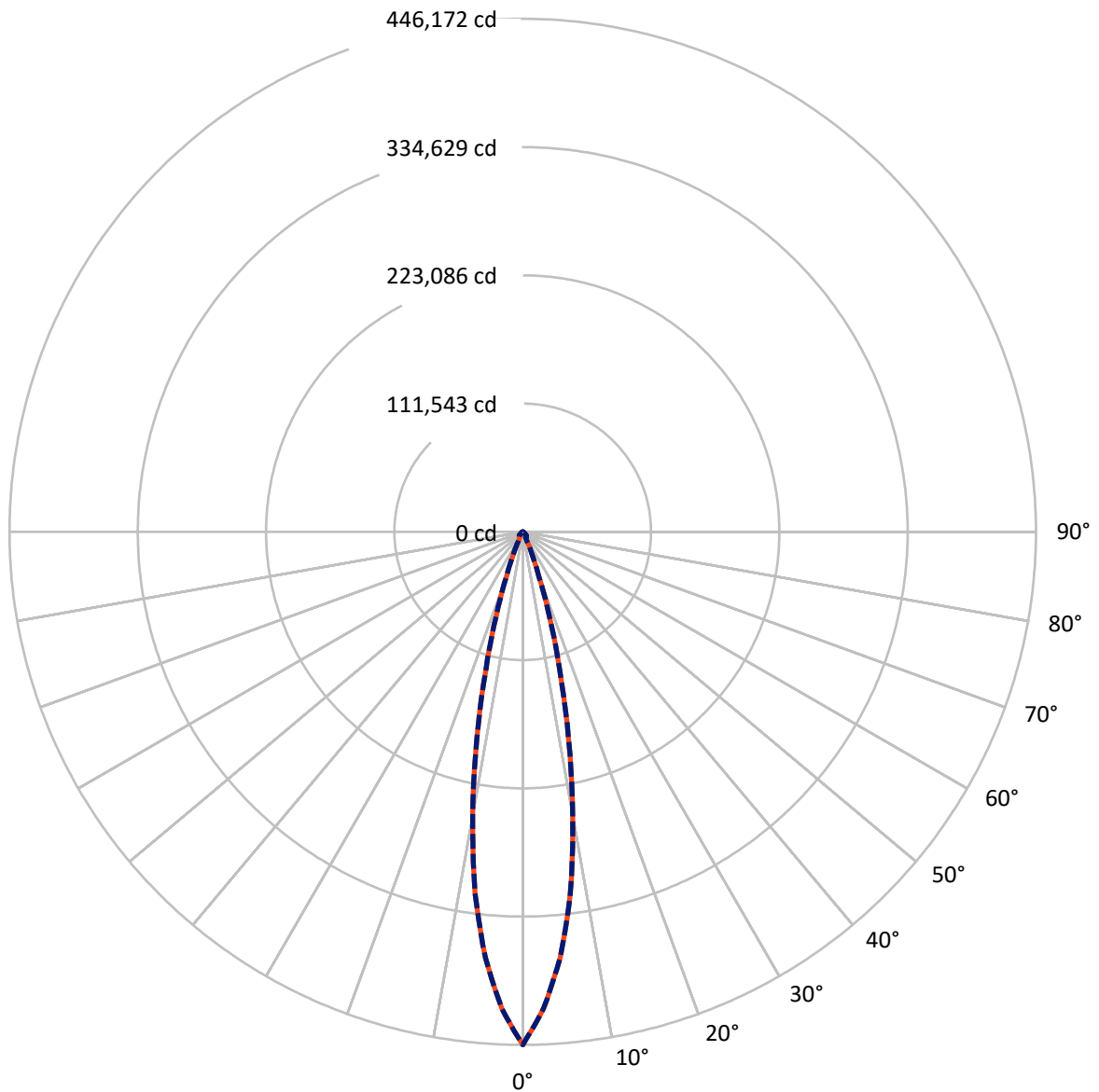
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Lumen Table

90																
80	0.1	0.8		2.8		7.1		9.3		7.1		2.8		0.8		0.1
70																
60	0.4	0.4	1.7	5.1	10.1	15.5	19.9	22.4	22.4	19.9	15.5	10.1	5.1	1.7	0.4	0.4
50		1.3	5.9	14.3	24.7	34.4	41.0	44.3	44.3	41.0	34.4	24.7	14.3	5.9	1.3	
40	0.9	3.1	11.7	24.8	37.8	61.3	93.8	112.3	112.3	93.8	61.3	37.8	24.8	11.7	3.1	0.9
30		5.4	17.5	32.7	72.2	124.0	145.3	152.8	152.8	145.3	124.0	72.2	32.7	17.5	5.4	
20	2.0	7.4	22.0	48.3	112.2	139.6	190.9	389.6	389.6	190.9	139.6	112.2	48.3	22.0	7.4	2.0
10		9.0	24.5	69.6	123.3	179.7	1136.7	3368.2	3368.2	1136.7	179.7	123.3	69.6	24.5	9.0	
0	2.6	9.8	25.7	80.6	125.7	359.1	3282.7	9232.0	9232.0	3282.7	359.1	125.7	80.6	25.7	9.8	2.6
-10		9.8	25.7	80.6	125.7	359.1	3282.7	9232.0	9232.0	3282.7	359.1	125.7	80.6	25.7	9.8	
-20	2.0	9.0	24.5	69.6	123.3	179.7	1136.7	3368.2	3368.2	1136.7	179.7	123.3	69.6	24.5	9.0	2.0
-30		7.4	22.0	48.3	112.2	139.6	190.9	389.6	389.6	190.9	139.6	112.2	48.3	22.0	7.4	
-40	0.9	5.4	17.5	32.7	72.2	124.0	145.3	152.8	152.8	145.3	124.0	72.2	32.7	17.5	5.4	0.9
-50		3.1	11.7	24.8	37.8	61.3	93.8	112.3	112.3	93.8	61.3	37.8	24.8	11.7	3.1	
-60	0.4	1.3	5.9	14.3	24.7	34.4	41.0	44.3	44.3	41.0	34.4	24.7	14.3	5.9	1.3	0.4
-70		0.4	1.7	5.1	10.1	15.5	19.9	22.4	22.4	19.9	15.5	10.1	5.1	1.7	0.4	
-80	0.1	0.8		2.8		7.1		9.3		7.1		2.8		0.8		0.1
-90																

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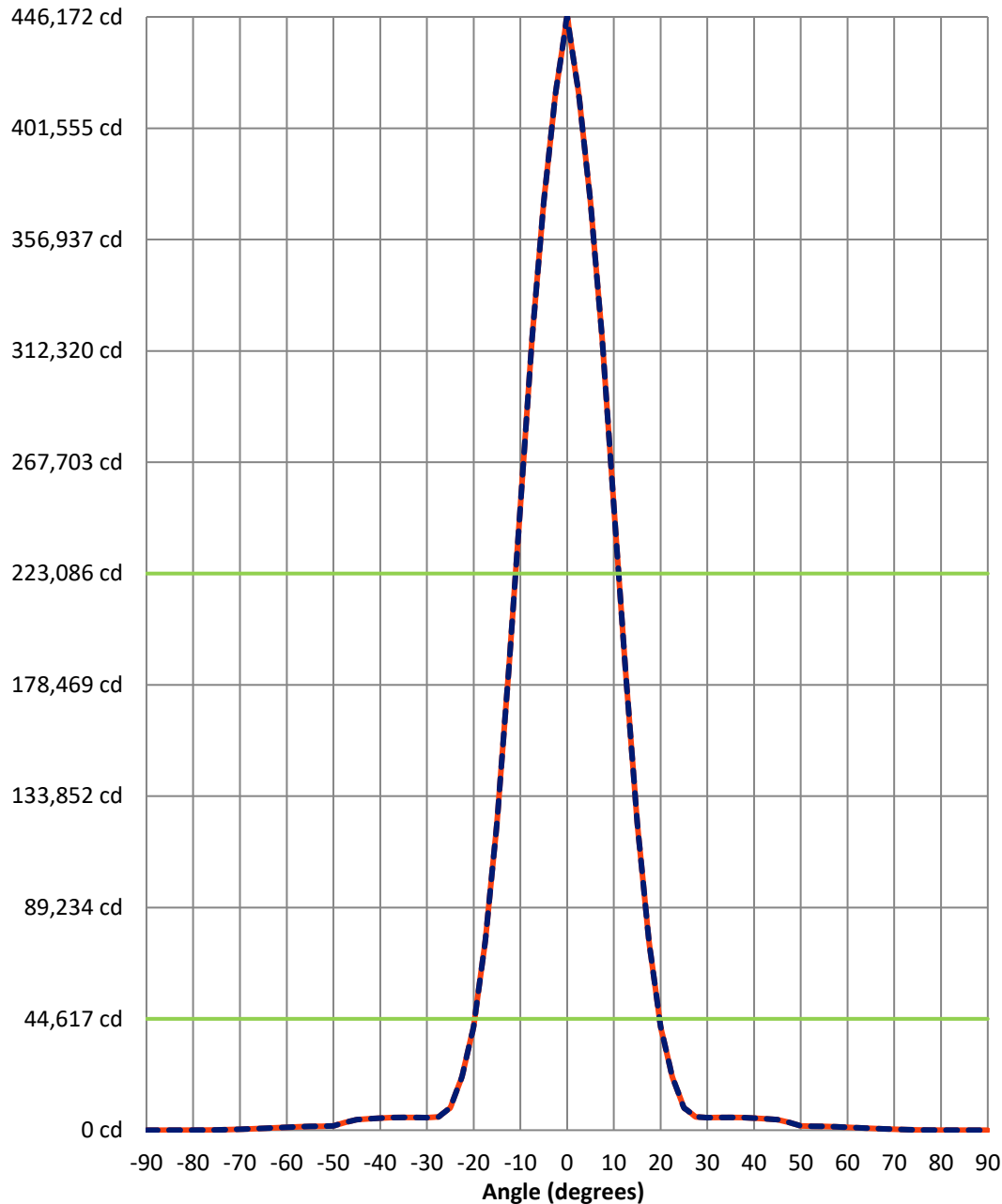
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 22°
 Lumens: 35520.7
 Efficiency: 44.2%

Field:
 H Angle: 39.6°
 V Angle: 39.6°
 Lumens: 65970.4
 Efficiency: 82.1%

Spill:
 Lumens: 14399.1
 Efficiency: 17.9%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.7	1.1	1.4	1.8	2.1	2.5	2.8	3.2	3.5
85°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.3	7.0
82.5°	0.0	1.1	2.2	3.2	4.3	5.4	6.4	7.5	8.4	8.9	9.4
80°	0.0	1.4	2.9	4.3	5.7	7.2	8.4	9.1	9.8	10.5	11.2
77.5°	0.0	1.8	3.6	5.4	7.2	8.6	9.5	10.4	11.2	12.1	13.0
75°	0.0	2.1	4.3	6.4	8.4	9.5	10.6	11.6	12.7	14.0	15.3
72.5°	0.0	2.5	5.0	7.5	9.1	10.4	11.6	12.9	14.5	16.0	17.6
70°	0.0	2.8	5.7	8.4	9.8	11.2	12.7	14.5	16.3	18.1	21.2
67.5°	0.0	3.2	6.3	8.9	10.5	12.1	14.0	16.0	18.1	21.6	25.1
65°	0.0	3.5	7.0	9.4	11.2	13.0	15.3	17.6	21.2	25.1	29.7
62.5°	0.0	3.8	7.7	9.9	11.8	14.1	16.6	19.9	24.2	29.0	36.1
60°	0.0	4.1	8.3	10.4	12.5	15.2	17.9	22.5	27.2	34.6	42.4
57.5°	0.0	4.5	8.6	10.9	13.3	16.2	19.9	25.0	31.7	40.2	58.6
55°	0.0	4.8	8.9	11.3	14.1	17.2	22.1	27.5	36.5	48.5	79.2
52.5°	0.0	5.1	9.2	11.8	14.8	18.3	24.1	31.4	41.2	66.5	99.2
50°	0.0	5.3	9.5	12.2	15.6	19.9	26.1	35.4	49.0	84.0	139.0
47.5°	0.0	5.6	9.8	12.6	16.3	21.6	28.3	39.2	64.0	100.9	179.8
45°	0.0	5.9	10.0	13.2	17.0	23.1	31.4	42.9	78.4	135.9	219.3
42.5°	0.0	6.1	10.3	13.6	17.7	24.6	34.4	51.4	92.3	169.9	265.2
40°	0.0	6.4	10.5	14.1	18.6	26.0	37.3	63.0	110.6	202.4	310.5
37.5°	0.0	6.6	10.8	14.6	19.6	27.4	40.1	74.0	138.1	235.5	353.6
35°	0.0	6.8	11.0	15.0	20.7	29.2	42.7	84.5	164.0	272.2	395.4
32.5°	0.0	7.0	11.2	15.4	21.6	31.2	46.9	94.3	188.5	306.7	436.1
30°	0.0	7.2	11.4	15.8	22.5	33.1	54.7	106.0	211.4	339.1	474.3
27.5°	0.0	7.4	11.5	16.1	23.3	34.9	62.0	124.5	234.7	369.2	509.9
25°	0.0	7.5	11.7	16.4	24.1	36.5	68.7	141.6	259.2	398.0	543.0
22.5°	0.0	7.7	11.9	16.7	24.8	38.0	74.8	157.1	281.5	424.7	580.1
20°	0.0	7.8	12.0	17.0	25.4	39.3	80.3	171.1	301.7	448.8	613.7
17.5°	0.0	7.9	12.1	17.2	26.0	40.5	85.2	183.6	319.6	470.2	643.5
15°	0.0	8.0	12.2	17.4	26.5	41.5	89.4	194.4	335.2	488.9	669.6
12.5°	0.0	8.1	12.3	17.6	26.9	42.4	93.0	203.7	348.5	504.8	691.7
10°	0.0	8.2	12.4	17.7	27.2	43.1	96.0	211.3	359.4	517.9	710.0
7.5°	0.0	8.2	12.4	17.9	27.5	43.7	98.3	217.2	367.9	528.1	724.2
5°	0.0	8.3	12.5	17.9	27.6	44.1	100.0	221.4	374.0	535.4	734.4
2.5°	0.0	8.3	12.5	18.0	27.8	44.3	101.0	224.0	377.7	539.8	740.6
0°	0.0	8.3	12.5	18.0	27.8	44.3	101.0	224.0	377.7	539.8	740.6
-2.5°	0.0	8.3	12.5	18.0	27.8	44.3	101.0	224.0	377.7	539.8	740.6
-5°	0.0	8.3	12.5	17.9	27.6	44.1	100.0	221.4	374.0	535.4	734.4
-7.5°	0.0	8.2	12.4	17.9	27.5	43.7	98.3	217.2	367.9	528.1	724.2
-10°	0.0	8.2	12.4	17.7	27.2	43.1	96.0	211.3	359.4	517.9	710.0
-12.5°	0.0	8.1	12.3	17.6	26.9	42.4	93.0	203.7	348.5	504.8	691.7
-15°	0.0	8.0	12.2	17.4	26.5	41.5	89.4	194.4	335.2	488.9	669.6
-17.5°	0.0	7.9	12.1	17.2	26.0	40.5	85.2	183.6	319.6	470.2	643.5
-20°	0.0	7.8	12.0	17.0	25.4	39.3	80.3	171.1	301.7	448.8	613.7



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	7.7	11.9	16.7	24.8	38.0	74.8	157.1	281.5	424.7	580.1
-25°	0.0	7.5	11.7	16.4	24.1	36.5	68.7	141.6	259.2	398.0	543.0
-27.5°	0.0	7.4	11.5	16.1	23.3	34.9	62.0	124.5	234.7	369.2	509.9
-30°	0.0	7.2	11.4	15.8	22.5	33.1	54.7	106.0	211.4	339.1	474.3
-32.5°	0.0	7.0	11.2	15.4	21.6	31.2	46.9	94.3	188.5	306.7	436.1
-35°	0.0	6.8	11.0	15.0	20.7	29.2	42.7	84.5	164.0	272.2	395.4
-37.5°	0.0	6.6	10.8	14.6	19.6	27.4	40.1	74.0	138.1	235.5	353.6
-40°	0.0	6.4	10.5	14.1	18.6	26.0	37.3	63.0	110.6	202.4	310.5
-42.5°	0.0	6.1	10.3	13.6	17.7	24.6	34.4	51.4	92.3	169.9	265.2
-45°	0.0	5.9	10.0	13.2	17.0	23.1	31.4	42.9	78.4	135.9	219.3
-47.5°	0.0	5.6	9.8	12.6	16.3	21.6	28.3	39.2	64.0	100.9	179.8
-50°	0.0	5.3	9.5	12.2	15.6	19.9	26.1	35.4	49.0	84.0	139.0
-52.5°	0.0	5.1	9.2	11.8	14.8	18.3	24.1	31.4	41.2	66.5	99.2
-55°	0.0	4.8	8.9	11.3	14.1	17.2	22.1	27.5	36.5	48.5	79.2
-57.5°	0.0	4.5	8.6	10.9	13.3	16.2	19.9	25.0	31.7	40.2	58.6
-60°	0.0	4.1	8.3	10.4	12.5	15.2	17.9	22.5	27.2	34.6	42.4
-62.5°	0.0	3.8	7.7	9.9	11.8	14.1	16.6	19.9	24.2	29.0	36.1
-65°	0.0	3.5	7.0	9.4	11.2	13.0	15.3	17.6	21.2	25.1	29.7
-67.5°	0.0	3.2	6.3	8.9	10.5	12.1	14.0	16.0	18.1	21.6	25.1
-70°	0.0	2.8	5.7	8.4	9.8	11.2	12.7	14.5	16.3	18.1	21.2
-72.5°	0.0	2.5	5.0	7.5	9.1	10.4	11.6	12.9	14.5	16.0	17.6
-75°	0.0	2.1	4.3	6.4	8.4	9.5	10.6	11.6	12.7	14.0	15.3
-77.5°	0.0	1.8	3.6	5.4	7.2	8.6	9.5	10.4	11.2	12.1	13.0
-80°	0.0	1.4	2.9	4.3	5.7	7.2	8.4	9.1	9.8	10.5	11.2
-82.5°	0.0	1.1	2.2	3.2	4.3	5.4	6.4	7.5	8.4	8.9	9.4
-85°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.3	7.0
-87.5°	0.0	0.4	0.7	1.1	1.4	1.8	2.1	2.5	2.8	3.2	3.5
-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):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	4.1	4.5	4.8	5.1	5.3	5.6	5.9	6.1	6.4	6.6
85°	7.7	8.3	8.6	8.9	9.2	9.5	9.8	10.0	10.3	10.5	10.8
82.5°	9.9	10.4	10.9	11.3	11.8	12.2	12.6	13.2	13.6	14.1	14.6
80°	11.8	12.5	13.3	14.1	14.8	15.6	16.3	17.0	17.7	18.6	19.6
77.5°	14.1	15.2	16.2	17.2	18.3	19.9	21.6	23.1	24.6	26.0	27.4
75°	16.6	17.9	19.9	22.1	24.1	26.1	28.3	31.4	34.4	37.3	40.1
72.5°	19.9	22.5	25.0	27.5	31.4	35.4	39.2	42.9	51.4	63.0	74.0
70°	24.2	27.2	31.7	36.5	41.2	49.0	64.0	78.4	92.3	110.6	138.1
67.5°	29.0	34.6	40.2	48.5	66.5	84.0	100.9	135.9	169.9	202.4	235.5
65°	36.1	42.4	58.6	79.2	99.2	139.0	179.8	219.3	265.2	310.5	353.6
62.5°	43.1	63.7	86.8	119.0	166.8	213.2	266.5	320.8	373.0	425.3	475.7
60°	63.7	89.4	130.1	183.6	238.4	301.7	363.0	424.7	484.9	543.0	611.4
57.5°	86.8	130.1	189.2	252.5	322.9	392.2	462.3	530.2	608.7	686.6	762.0
55°	119.0	183.6	252.5	330.0	407.3	485.1	565.4	656.2	744.0	831.8	915.9
52.5°	166.8	238.4	322.9	407.3	492.7	584.4	685.0	784.2	882.4	976.0	1063.1
50°	213.2	301.7	392.2	485.1	584.4	694.7	804.5	913.1	1015.6	1113.0	1210.6
47.5°	266.5	363.0	462.3	565.4	685.0	804.5	923.3	1035.5	1143.3	1254.4	1362.2
45°	320.8	424.7	530.2	656.2	784.2	913.1	1035.5	1153.4	1276.5	1387.9	1468.2
42.5°	373.0	484.9	608.7	744.0	882.4	1015.6	1143.3	1276.5	1395.8	1484.1	1535.4
40°	425.3	543.0	686.6	831.8	976.0	1113.0	1254.4	1387.9	1484.1	1537.8	1564.3
37.5°	475.7	611.4	762.0	915.9	1063.1	1210.6	1362.2	1468.2	1535.4	1564.3	1665.2
35°	523.4	676.4	835.8	994.3	1146.3	1306.9	1436.6	1528.2	1559.4	1655.9	2024.0
32.5°	575.1	737.9	905.7	1067.3	1230.7	1389.8	1505.2	1549.8	1628.3	1866.5	2831.3
30°	627.5	797.8	970.7	1136.0	1310.7	1450.1	1535.6	1582.9	1709.7	2590.3	3509.5
27.5°	676.4	853.9	1029.6	1203.8	1380.9	1506.8	1553.5	1654.5	2194.4	3243.5	4103.5
25°	721.6	905.7	1084.2	1267.8	1429.5	1532.4	1582.5	1721.3	2792.8	3765.1	4356.1
22.5°	763.7	953.1	1134.2	1326.6	1474.2	1546.6	1639.7	2165.6	3301.8	4233.1	4510.9
20°	802.6	994.3	1181.5	1376.8	1514.7	1559.5	1691.7	2634.6	3713.2	4365.2	4637.9
17.5°	837.1	1031.0	1224.9	1410.1	1529.9	1586.0	1794.0	3055.8	4083.4	4484.3	4745.6
15°	867.3	1063.1	1262.9	1439.1	1539.3	1623.8	2135.9	3366.9	4281.0	4584.8	4840.6
12.5°	893.0	1090.5	1295.3	1464.0	1547.2	1656.1	2428.9	3625.5	4364.7	4660.8	4908.0
10°	914.2	1113.0	1322.0	1484.4	1553.8	1682.8	2671.1	3839.7	4434.0	4723.9	4964.1
7.5°	930.7	1130.6	1342.9	1500.5	1558.9	1703.7	2861.1	4007.9	4488.6	4773.6	5008.3
5°	942.6	1143.3	1357.9	1512.0	1562.6	1718.7	2997.7	4128.9	4527.9	4809.5	5040.3
2.5°	949.7	1150.9	1366.9	1518.9	1564.9	1727.8	3080.1	4201.9	4551.6	4831.2	5059.6
0°	952.1	1153.4	1369.9	1521.2	1565.6	1730.8	3107.6	4226.3	4559.5	4838.4	5066.1
-2.5°	949.7	1150.9	1366.9	1518.9	1564.9	1727.8	3080.1	4201.9	4551.6	4831.2	5059.6
-5°	942.6	1143.3	1357.9	1512.0	1562.6	1718.7	2997.7	4128.9	4527.9	4809.5	5040.3
-7.5°	930.7	1130.6	1342.9	1500.5	1558.9	1703.7	2861.1	4007.9	4488.6	4773.6	5008.3
-10°	914.2	1113.0	1322.0	1484.4	1553.8	1682.8	2671.1	3839.7	4434.0	4723.9	4964.1
-12.5°	893.0	1090.5	1295.3	1464.0	1547.2	1656.1	2428.9	3625.5	4364.7	4660.8	4908.0
-15°	867.3	1063.1	1262.9	1439.1	1539.3	1623.8	2135.9	3366.9	4281.0	4584.8	4840.6
-17.5°	837.1	1031.0	1224.9	1410.1	1529.9	1586.0	1794.0	3055.8	4083.4	4484.3	4745.6
-20°	802.6	994.3	1181.5	1376.8	1514.7	1559.5	1691.7	2634.6	3713.2	4365.2	4637.9



REPORT NUMBER: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	763.7	953.1	1134.2	1326.6	1474.2	1546.6	1639.7	2165.6	3301.8	4233.1	4510.9
-25°	721.6	905.7	1084.2	1267.8	1429.5	1532.4	1582.5	1721.3	2792.8	3765.1	4356.1
-27.5°	676.4	853.9	1029.6	1203.8	1380.9	1506.8	1553.5	1654.5	2194.4	3243.5	4103.5
-30°	627.5	797.8	970.7	1136.0	1310.7	1450.1	1535.6	1582.9	1709.7	2590.3	3509.5
-32.5°	575.1	737.9	905.7	1067.3	1230.7	1389.8	1505.2	1549.8	1628.3	1866.5	2831.3
-35°	523.4	676.4	835.8	994.3	1146.3	1306.9	1436.6	1528.2	1559.4	1655.9	2024.0
-37.5°	475.7	611.4	762.0	915.9	1063.1	1210.6	1362.2	1468.2	1535.4	1564.3	1665.2
-40°	425.3	543.0	686.6	831.8	976.0	1113.0	1254.4	1387.9	1484.1	1537.8	1564.3
-42.5°	373.0	484.9	608.7	744.0	882.4	1015.6	1143.3	1276.5	1395.8	1484.1	1535.4
-45°	320.8	424.7	530.2	656.2	784.2	913.1	1035.5	1153.4	1276.5	1387.9	1468.2
-47.5°	266.5	363.0	462.3	565.4	685.0	804.5	923.3	1035.5	1143.3	1254.4	1362.2
-50°	213.2	301.7	392.2	485.1	584.4	694.7	804.5	913.1	1015.6	1113.0	1210.6
-52.5°	166.8	238.4	322.9	407.3	492.7	584.4	685.0	784.2	882.4	976.0	1063.1
-55°	119.0	183.6	252.5	330.0	407.3	485.1	565.4	656.2	744.0	831.8	915.9
-57.5°	86.8	130.1	189.2	252.5	322.9	392.2	462.3	530.2	608.7	686.6	762.0
-60°	63.7	89.4	130.1	183.6	238.4	301.7	363.0	424.7	484.9	543.0	611.4
-62.5°	43.1	63.7	86.8	119.0	166.8	213.2	266.5	320.8	373.0	425.3	475.7
-65°	36.1	42.4	58.6	79.2	99.2	139.0	179.8	219.3	265.2	310.5	353.6
-67.5°	29.0	34.6	40.2	48.5	66.5	84.0	100.9	135.9	169.9	202.4	235.5
-70°	24.2	27.2	31.7	36.5	41.2	49.0	64.0	78.4	92.3	110.6	138.1
-72.5°	19.9	22.5	25.0	27.5	31.4	35.4	39.2	42.9	51.4	63.0	74.0
-75°	16.6	17.9	19.9	22.1	24.1	26.1	28.3	31.4	34.4	37.3	40.1
-77.5°	14.1	15.2	16.2	17.2	18.3	19.9	21.6	23.1	24.6	26.0	27.4
-80°	11.8	12.5	13.3	14.1	14.8	15.6	16.3	17.0	17.7	18.6	19.6
-82.5°	9.9	10.4	10.9	11.3	11.8	12.2	12.6	13.2	13.6	14.1	14.6
-85°	7.7	8.3	8.6	8.9	9.2	9.5	9.8	10.0	10.3	10.5	10.8
-87.5°	3.8	4.1	4.5	4.8	5.1	5.3	5.6	5.9	6.1	6.4	6.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2
85°	11.0	11.2	11.4	11.5	11.7	11.9	12.0	12.1	12.2	12.3	12.4
82.5°	15.0	15.4	15.8	16.1	16.4	16.7	17.0	17.2	17.4	17.6	17.7
80°	20.7	21.6	22.5	23.3	24.1	24.8	25.4	26.0	26.5	26.9	27.2
77.5°	29.2	31.2	33.1	34.9	36.5	38.0	39.3	40.5	41.5	42.4	43.1
75°	42.7	46.9	54.7	62.0	68.7	74.8	80.3	85.2	89.4	93.0	96.0
72.5°	84.5	94.3	106.0	124.5	141.6	157.1	171.1	183.6	194.4	203.7	211.3
70°	164.0	188.5	211.4	234.7	259.2	281.5	301.7	319.6	335.2	348.5	359.4
67.5°	272.2	306.7	339.1	369.2	398.0	424.7	448.8	470.2	488.9	504.8	517.9
65°	395.4	436.1	474.3	509.9	543.0	580.1	613.7	643.5	669.6	691.7	710.0
62.5°	523.4	575.1	627.5	676.4	721.6	763.7	802.6	837.1	867.3	893.0	914.2
60°	676.4	737.9	797.8	853.9	905.7	953.1	994.3	1031.0	1063.1	1090.5	1113.0
57.5°	835.8	905.7	970.7	1029.6	1084.2	1134.2	1181.5	1224.9	1262.9	1295.3	1322.0
55°	994.3	1067.3	1136.0	1203.8	1267.8	1326.6	1376.8	1410.1	1439.1	1464.0	1484.4
52.5°	1146.3	1230.7	1310.7	1380.9	1429.5	1474.2	1514.7	1529.9	1539.3	1547.2	1553.8
50°	1306.9	1389.8	1450.1	1506.8	1532.4	1546.6	1559.5	1586.0	1623.8	1656.1	1682.8
47.5°	1436.6	1505.2	1535.6	1553.5	1582.5	1639.7	1691.7	1794.0	2135.9	2428.9	2671.1
45°	1528.2	1549.8	1582.9	1654.5	1721.3	2165.6	2634.6	3055.8	3366.9	3625.5	3839.7
42.5°	1559.4	1628.3	1709.7	2194.4	2792.8	3301.8	3713.2	4083.4	4281.0	4364.7	4434.0
40°	1655.9	1866.5	2590.3	3243.5	3765.1	4233.1	4365.2	4484.3	4584.8	4660.8	4723.9
37.5°	2024.0	2831.3	3509.5	4103.5	4356.1	4510.9	4637.9	4745.6	4840.6	4908.0	4964.1
35°	2912.1	3644.0	4251.2	4439.8	4608.2	4747.2	4868.6	4963.6	5048.0	5077.2	5089.5
32.5°	3644.0	4271.8	4482.2	4662.8	4821.8	4946.5	5059.0	5085.3	5103.7	5110.9	5109.3
30°	4251.2	4482.2	4681.1	4855.7	4994.2	5077.8	5102.2	5110.4	5107.9	5098.9	5072.7
27.5°	4439.8	4662.8	4855.7	5010.2	5084.5	5111.8	5108.6	5097.3	5058.5	5024.6	5138.2
25°	4608.2	4821.8	4994.2	5084.5	5111.4	5107.7	5077.1	5030.6	5167.3	5315.4	6365.5
22.5°	4747.2	4946.5	5077.8	5111.8	5107.7	5070.3	5056.5	5256.4	6339.6	8157.7	11407.6
20°	4868.6	5059.0	5102.2	5108.6	5077.1	5056.5	5286.5	7051.4	9928.6	16707.2	23281.0
17.5°	4963.6	5085.3	5110.4	5097.3	5030.6	5256.4	7051.4	11224.3	19454.7	30360.2	40961.8
15°	5048.0	5103.7	5107.9	5058.5	5167.3	6339.6	9928.6	19454.7	32788.3	49377.9	69573.9
12.5°	5077.2	5110.9	5098.9	5024.6	5315.4	8157.7	16707.2	30360.2	49377.9	74479.1	105216.4
10°	5089.5	5109.3	5072.7	5138.2	6365.5	11407.6	23281.0	40961.8	69573.9	105216.4	143694.7
7.5°	5099.2	5108.0	5051.9	5229.6	7498.3	15680.5	31050.3	55427.9	90526.5	133691.5	184765.6
5°	5106.2	5107.1	5036.7	5296.3	8328.6	18830.7	36822.4	66620.3	108342.2	159896.4	219458.8
2.5°	5110.5	5106.5	5027.5	5337.0	8835.9	20763.3	40384.2	73583.4	119559.5	177797.5	242079.9
0°	5111.9	5106.3	5024.4	5350.6	9006.5	21414.9	41588.9	75949.3	123396.8	184166.0	250012.3
-2.5°	5110.5	5106.5	5027.5	5337.0	8835.9	20763.3	40384.2	73583.4	119559.5	177797.5	242079.9
-5°	5106.2	5107.1	5036.7	5296.3	8328.6	18830.7	36822.4	66620.3	108342.2	159896.4	219458.8
-7.5°	5099.2	5108.0	5051.9	5229.6	7498.3	15680.5	31050.3	55427.9	90526.5	133691.5	184765.6
-10°	5089.5	5109.3	5072.7	5138.2	6365.5	11407.6	23281.0	40961.8	69573.9	105216.4	143694.7
-12.5°	5077.2	5110.9	5098.9	5024.6	5315.4	8157.7	16707.2	30360.2	49377.9	74479.1	105216.4
-15°	5048.0	5103.7	5107.9	5058.5	5167.3	6339.6	9928.6	19454.7	32788.3	49377.9	69573.9
-17.5°	4963.6	5085.3	5110.4	5097.3	5030.6	5256.4	7051.4	11224.3	19454.7	30360.2	40961.8
-20°	4868.6	5059.0	5102.2	5108.6	5077.1	5056.5	5286.5	7051.4	9928.6	16707.2	23281.0



REPORT NUMBER: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4747.2	4946.5	5077.8	5111.8	5107.7	5070.3	5056.5	5256.4	6339.6	8157.7	11407.6
-25°	4608.2	4821.8	4994.2	5084.5	5111.4	5107.7	5077.1	5030.6	5167.3	5315.4	6365.5
-27.5°	4439.8	4662.8	4855.7	5010.2	5084.5	5111.8	5108.6	5097.3	5058.5	5024.6	5138.2
-30°	4251.2	4482.2	4681.1	4855.7	4994.2	5077.8	5102.2	5110.4	5107.9	5098.9	5072.7
-32.5°	3644.0	4271.8	4482.2	4662.8	4821.8	4946.5	5059.0	5085.3	5103.7	5110.9	5109.3
-35°	2912.1	3644.0	4251.2	4439.8	4608.2	4747.2	4868.6	4963.6	5048.0	5077.2	5089.5
-37.5°	2024.0	2831.3	3509.5	4103.5	4356.1	4510.9	4637.9	4745.6	4840.6	4908.0	4964.1
-40°	1655.9	1866.5	2590.3	3243.5	3765.1	4233.1	4365.2	4484.3	4584.8	4660.8	4723.9
-42.5°	1559.4	1628.3	1709.7	2194.4	2792.8	3301.8	3713.2	4083.4	4281.0	4364.7	4434.0
-45°	1528.2	1549.8	1582.9	1654.5	1721.3	2165.6	2634.6	3055.8	3366.9	3625.5	3839.7
-47.5°	1436.6	1505.2	1535.6	1553.5	1582.5	1639.7	1691.7	1794.0	2135.9	2428.9	2671.1
-50°	1306.9	1389.8	1450.1	1506.8	1532.4	1546.6	1559.5	1586.0	1623.8	1656.1	1682.8
-52.5°	1146.3	1230.7	1310.7	1380.9	1429.5	1474.2	1514.7	1529.9	1539.3	1547.2	1553.8
-55°	994.3	1067.3	1136.0	1203.8	1267.8	1326.6	1376.8	1410.1	1439.1	1464.0	1484.4
-57.5°	835.8	905.7	970.7	1029.6	1084.2	1134.2	1181.5	1224.9	1262.9	1295.3	1322.0
-60°	676.4	737.9	797.8	853.9	905.7	953.1	994.3	1031.0	1063.1	1090.5	1113.0
-62.5°	523.4	575.1	627.5	676.4	721.6	763.7	802.6	837.1	867.3	893.0	914.2
-65°	395.4	436.1	474.3	509.9	543.0	580.1	613.7	643.5	669.6	691.7	710.0
-67.5°	272.2	306.7	339.1	369.2	398.0	424.7	448.8	470.2	488.9	504.8	517.9
-70°	164.0	188.5	211.4	234.7	259.2	281.5	301.7	319.6	335.2	348.5	359.4
-72.5°	84.5	94.3	106.0	124.5	141.6	157.1	171.1	183.6	194.4	203.7	211.3
-75°	42.7	46.9	54.7	62.0	68.7	74.8	80.3	85.2	89.4	93.0	96.0
-77.5°	29.2	31.2	33.1	34.9	36.5	38.0	39.3	40.5	41.5	42.4	43.1
-80°	20.7	21.6	22.5	23.3	24.1	24.8	25.4	26.0	26.5	26.9	27.2
-82.5°	15.0	15.4	15.8	16.1	16.4	16.7	17.0	17.2	17.4	17.6	17.7
-85°	11.0	11.2	11.4	11.5	11.7	11.9	12.0	12.1	12.2	12.3	12.4
-87.5°	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.0	7.9
85°	12.4	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.3	12.2	12.1
82.5°	17.9	17.9	18.0	18.0	18.0	17.9	17.9	17.7	17.6	17.4	17.2
80°	27.5	27.6	27.8	27.8	27.8	27.6	27.5	27.2	26.9	26.5	26.0
77.5°	43.7	44.1	44.3	44.4	44.3	44.1	43.7	43.1	42.4	41.5	40.5
75°	98.3	100.0	101.0	101.3	101.0	100.0	98.3	96.0	93.0	89.4	85.2
72.5°	217.2	221.4	224.0	224.8	224.0	221.4	217.2	211.3	203.7	194.4	183.6
70°	367.9	374.0	377.7	378.9	377.7	374.0	367.9	359.4	348.5	335.2	319.6
67.5°	528.1	535.4	539.8	541.3	539.8	535.4	528.1	517.9	504.8	488.9	470.2
65°	724.2	734.4	740.6	742.6	740.6	734.4	724.2	710.0	691.7	669.6	643.5
62.5°	930.7	942.6	949.7	952.1	949.7	942.6	930.7	914.2	893.0	867.3	837.1
60°	1130.6	1143.3	1150.9	1153.4	1150.9	1143.3	1130.6	1113.0	1090.5	1063.1	1031.0
57.5°	1342.9	1357.9	1366.9	1369.9	1366.9	1357.9	1342.9	1322.0	1295.3	1262.9	1224.9
55°	1500.5	1512.0	1518.9	1521.2	1518.9	1512.0	1500.5	1484.4	1464.0	1439.1	1410.1
52.5°	1558.9	1562.6	1564.9	1565.6	1564.9	1562.6	1558.9	1553.8	1547.2	1539.3	1529.9
50°	1703.7	1718.7	1727.8	1730.8	1727.8	1718.7	1703.7	1682.8	1656.1	1623.8	1586.0
47.5°	2861.1	2997.7	3080.1	3107.6	3080.1	2997.7	2861.1	2671.1	2428.9	2135.9	1794.0
45°	4007.9	4128.9	4201.9	4226.3	4201.9	4128.9	4007.9	3839.7	3625.5	3366.9	3055.8
42.5°	4488.6	4527.9	4551.6	4559.5	4551.6	4527.9	4488.6	4434.0	4364.7	4281.0	4083.4
40°	4773.6	4809.5	4831.2	4838.4	4831.2	4809.5	4773.6	4723.9	4660.8	4584.8	4484.3
37.5°	5008.3	5040.3	5059.6	5066.1	5059.6	5040.3	5008.3	4964.1	4908.0	4840.6	4745.6
35°	5099.2	5106.2	5110.5	5111.9	5110.5	5106.2	5099.2	5089.5	5077.2	5048.0	4963.6
32.5°	5108.0	5107.1	5106.5	5106.3	5106.5	5107.1	5108.0	5109.3	5110.9	5103.7	5085.3
30°	5051.9	5036.7	5027.5	5024.4	5027.5	5036.7	5051.9	5072.7	5098.9	5107.9	5110.4
27.5°	5229.6	5296.3	5337.0	5350.6	5337.0	5296.3	5229.6	5138.2	5024.6	5058.5	5097.3
25°	7498.3	8328.6	8835.9	9006.5	8835.9	8328.6	7498.3	6365.5	5315.4	5167.3	5030.6
22.5°	15680.5	18830.7	20763.3	21414.9	20763.3	18830.7	15680.5	11407.6	8157.7	6339.6	5256.4
20°	31050.3	36822.4	40384.2	41588.9	40384.2	36822.4	31050.3	23281.0	16707.2	9928.6	7051.4
17.5°	55427.9	66620.3	73583.4	75949.3	73583.4	66620.3	55427.9	40961.8	30360.2	19454.7	11224.3
15°	90526.5	108342.2	119559.5	123396.8	119559.5	108342.2	90526.5	69573.9	49377.9	32788.3	19454.7
12.5°	133691.5	159896.4	177797.5	184166.0	177797.5	159896.4	133691.5	105216.4	74479.1	49377.9	30360.2
10°	184765.6	219458.8	242079.9	250012.3	242079.9	219458.8	184765.6	143694.7	105216.4	69573.9	40961.8
7.5°	234614.7	275803.4	306185.0	317180.7	306185.0	275803.4	234614.7	184765.6	133691.5	90526.5	55427.9
5°	275803.4	328993.9	361607.8	371917.1	361607.8	328993.9	275803.4	219458.8	159896.4	108342.2	66620.3
2.5°	306185.0	361607.8	396862.8	415143.1	396862.8	361607.8	306185.0	242079.9	177797.5	119559.5	73583.4
0°	317180.7	371917.1	415143.1	446171.7	415143.1	371917.1	317180.7	250012.3	184166.0	123396.8	75949.3
-2.5°	306185.0	361607.8	396862.8	415143.1	396862.8	361607.8	306185.0	242079.9	177797.5	119559.5	73583.4
-5°	275803.4	328993.9	361607.8	371917.1	361607.8	328993.9	275803.4	219458.8	159896.4	108342.2	66620.3
-7.5°	234614.7	275803.4	306185.0	317180.7	306185.0	275803.4	234614.7	184765.6	133691.5	90526.5	55427.9
-10°	184765.6	219458.8	242079.9	250012.3	242079.9	219458.8	184765.6	143694.7	105216.4	69573.9	40961.8
-12.5°	133691.5	159896.4	177797.5	184166.0	177797.5	159896.4	133691.5	105216.4	74479.1	49377.9	30360.2
-15°	90526.5	108342.2	119559.5	123396.8	119559.5	108342.2	90526.5	69573.9	49377.9	32788.3	19454.7
-17.5°	55427.9	66620.3	73583.4	75949.3	73583.4	66620.3	55427.9	40961.8	30360.2	19454.7	11224.3
-20°	31050.3	36822.4	40384.2	41588.9	40384.2	36822.4	31050.3	23281.0	16707.2	9928.6	7051.4



REPORT NUMBER: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	15680.5	18830.7	20763.3	21414.9	20763.3	18830.7	15680.5	11407.6	8157.7	6339.6	5256.4
-25°	7498.3	8328.6	8835.9	9006.5	8835.9	8328.6	7498.3	6365.5	5315.4	5167.3	5030.6
-27.5°	5229.6	5296.3	5337.0	5350.6	5337.0	5296.3	5229.6	5138.2	5024.6	5058.5	5097.3
-30°	5051.9	5036.7	5027.5	5024.4	5027.5	5036.7	5051.9	5072.7	5098.9	5107.9	5110.4
-32.5°	5108.0	5107.1	5106.5	5106.3	5106.5	5107.1	5108.0	5109.3	5110.9	5103.7	5085.3
-35°	5099.2	5106.2	5110.5	5111.9	5110.5	5106.2	5099.2	5089.5	5077.2	5048.0	4963.6
-37.5°	5008.3	5040.3	5059.6	5066.1	5059.6	5040.3	5008.3	4964.1	4908.0	4840.6	4745.6
-40°	4773.6	4809.5	4831.2	4838.4	4831.2	4809.5	4773.6	4723.9	4660.8	4584.8	4484.3
-42.5°	4488.6	4527.9	4551.6	4559.5	4551.6	4527.9	4488.6	4434.0	4364.7	4281.0	4083.4
-45°	4007.9	4128.9	4201.9	4226.3	4201.9	4128.9	4007.9	3839.7	3625.5	3366.9	3055.8
-47.5°	2861.1	2997.7	3080.1	3107.6	3080.1	2997.7	2861.1	2671.1	2428.9	2135.9	1794.0
-50°	1703.7	1718.7	1727.8	1730.8	1727.8	1718.7	1703.7	1682.8	1656.1	1623.8	1586.0
-52.5°	1558.9	1562.6	1564.9	1565.6	1564.9	1562.6	1558.9	1553.8	1547.2	1539.3	1529.9
-55°	1500.5	1512.0	1518.9	1521.2	1518.9	1512.0	1500.5	1484.4	1464.0	1439.1	1410.1
-57.5°	1342.9	1357.9	1366.9	1369.9	1366.9	1357.9	1342.9	1322.0	1295.3	1262.9	1224.9
-60°	1130.6	1143.3	1150.9	1153.4	1150.9	1143.3	1130.6	1113.0	1090.5	1063.1	1031.0
-62.5°	930.7	942.6	949.7	952.1	949.7	942.6	930.7	914.2	893.0	867.3	837.1
-65°	724.2	734.4	740.6	742.6	740.6	734.4	724.2	710.0	691.7	669.6	643.5
-67.5°	528.1	535.4	539.8	541.3	539.8	535.4	528.1	517.9	504.8	488.9	470.2
-70°	367.9	374.0	377.7	378.9	377.7	374.0	367.9	359.4	348.5	335.2	319.6
-72.5°	217.2	221.4	224.0	224.8	224.0	221.4	217.2	211.3	203.7	194.4	183.6
-75°	98.3	100.0	101.0	101.3	101.0	100.0	98.3	96.0	93.0	89.4	85.2
-77.5°	43.7	44.1	44.3	44.4	44.3	44.1	43.7	43.1	42.4	41.5	40.5
-80°	27.5	27.6	27.8	27.8	27.8	27.6	27.5	27.2	26.9	26.5	26.0
-82.5°	17.9	17.9	18.0	18.0	18.0	17.9	17.9	17.7	17.6	17.4	17.2
-85°	12.4	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.3	12.2	12.1
-87.5°	8.2	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.0	7.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	7.7	7.5	7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9
85°	12.0	11.9	11.7	11.5	11.4	11.2	11.0	10.8	10.5	10.3	10.0
82.5°	17.0	16.7	16.4	16.1	15.8	15.4	15.0	14.6	14.1	13.6	13.2
80°	25.4	24.8	24.1	23.3	22.5	21.6	20.7	19.6	18.6	17.7	17.0
77.5°	39.3	38.0	36.5	34.9	33.1	31.2	29.2	27.4	26.0	24.6	23.1
75°	80.3	74.8	68.7	62.0	54.7	46.9	42.7	40.1	37.3	34.4	31.4
72.5°	171.1	157.1	141.6	124.5	106.0	94.3	84.5	74.0	63.0	51.4	42.9
70°	301.7	281.5	259.2	234.7	211.4	188.5	164.0	138.1	110.6	92.3	78.4
67.5°	448.8	424.7	398.0	369.2	339.1	306.7	272.2	235.5	202.4	169.9	135.9
65°	613.7	580.1	543.0	509.9	474.3	436.1	395.4	353.6	310.5	265.2	219.3
62.5°	802.6	763.7	721.6	676.4	627.5	575.1	523.4	475.7	425.3	373.0	320.8
60°	994.3	953.1	905.7	853.9	797.8	737.9	676.4	611.4	543.0	484.9	424.7
57.5°	1181.5	1134.2	1084.2	1029.6	970.7	905.7	835.8	762.0	686.6	608.7	530.2
55°	1376.8	1326.6	1267.8	1203.8	1136.0	1067.3	994.3	915.9	831.8	744.0	656.2
52.5°	1514.7	1474.2	1429.5	1380.9	1310.7	1230.7	1146.3	1063.1	976.0	882.4	784.2
50°	1559.5	1546.6	1532.4	1506.8	1450.1	1389.8	1306.9	1210.6	1113.0	1015.6	913.1
47.5°	1691.7	1639.7	1582.5	1535.5	1535.6	1505.2	1436.6	1362.2	1254.4	1143.3	1035.5
45°	2634.6	2165.6	1721.3	1654.5	1582.9	1549.8	1528.2	1468.2	1387.9	1276.5	1153.4
42.5°	3713.2	3301.8	2792.8	2194.4	1709.7	1628.3	1559.4	1535.4	1484.1	1395.8	1276.5
40°	4365.2	4233.1	3765.1	3243.5	2590.3	1866.5	1655.9	1564.3	1537.8	1484.1	1387.9
37.5°	4637.9	4510.9	4356.1	4103.5	3509.5	2831.3	2024.0	1665.2	1564.3	1535.4	1468.2
35°	4868.6	4747.2	4608.2	4439.8	4251.2	3644.0	2912.1	2024.0	1655.9	1559.4	1528.2
32.5°	5059.0	4946.5	4821.8	4662.8	4482.2	4271.8	3644.0	2831.3	1866.5	1628.3	1549.8
30°	5102.2	5077.8	4994.2	4855.7	4681.1	4482.2	4251.2	3509.5	2590.3	1709.7	1582.9
27.5°	5108.6	5111.8	5084.5	5010.2	4855.7	4662.8	4439.8	4103.5	3243.5	2194.4	1654.5
25°	5077.1	5107.7	5111.4	5084.5	4994.2	4821.8	4608.2	4356.1	3765.1	2792.8	1721.3
22.5°	5056.5	5070.3	5107.7	5111.8	5077.8	4946.5	4747.2	4510.9	4233.1	3301.8	2165.6
20°	5286.5	5056.5	5077.1	5108.6	5102.2	5059.0	4868.6	4637.9	4365.2	3713.2	2634.6
17.5°	7051.4	5256.4	5030.6	5097.3	5110.4	5085.3	4963.6	4745.6	4484.3	4083.4	3055.8
15°	9928.6	6339.6	5167.3	5058.5	5107.9	5103.7	5048.0	4840.6	4584.8	4281.0	3366.9
12.5°	16707.2	8157.7	5315.4	5024.6	5098.9	5110.9	5077.2	4908.0	4660.8	4364.7	3625.5
10°	23281.0	11407.6	6365.5	5138.2	5072.7	5109.3	5089.5	4964.1	4723.9	4434.0	3839.7
7.5°	31050.3	15680.5	7498.3	5229.6	5051.9	5108.0	5099.2	5008.3	4773.6	4488.6	4007.9
5°	36822.4	18830.7	8328.6	5296.3	5036.7	5107.1	5106.2	5040.3	4809.5	4527.9	4128.9
2.5°	40384.2	20763.3	8835.9	5337.0	5027.5	5106.5	5110.5	5059.6	4831.2	4551.6	4201.9
0°	41588.9	21414.9	9006.5	5350.6	5024.4	5106.3	5111.9	5066.1	4838.4	4559.5	4226.3
-2.5°	40384.2	20763.3	8835.9	5337.0	5027.5	5106.5	5110.5	5059.6	4831.2	4551.6	4201.9
-5°	36822.4	18830.7	8328.6	5296.3	5036.7	5107.1	5106.2	5040.3	4809.5	4527.9	4128.9
-7.5°	31050.3	15680.5	7498.3	5229.6	5051.9	5108.0	5099.2	5008.3	4773.6	4488.6	4007.9
-10°	23281.0	11407.6	6365.5	5138.2	5072.7	5109.3	5089.5	4964.1	4723.9	4434.0	3839.7
-12.5°	16707.2	8157.7	5315.4	5024.6	5098.9	5110.9	5077.2	4908.0	4660.8	4364.7	3625.5
-15°	9928.6	6339.6	5167.3	5058.5	5107.9	5103.7	5048.0	4840.6	4584.8	4281.0	3366.9
-17.5°	7051.4	5256.4	5030.6	5097.3	5110.4	5085.3	4963.6	4745.6	4484.3	4083.4	3055.8
-20°	5286.5	5056.5	5077.1	5108.6	5102.2	5059.0	4868.6	4637.9	4365.2	3713.2	2634.6



REPORT NUMBER: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5056.5	5070.3	5107.7	5111.8	5077.8	4946.5	4747.2	4510.9	4233.1	3301.8	2165.6
-25°	5077.1	5107.7	5111.4	5084.5	4994.2	4821.8	4608.2	4356.1	3765.1	2792.8	1721.3
-27.5°	5108.6	5111.8	5084.5	5010.2	4855.7	4662.8	4439.8	4103.5	3243.5	2194.4	1654.5
-30°	5102.2	5077.8	4994.2	4855.7	4681.1	4482.2	4251.2	3509.5	2590.3	1709.7	1582.9
-32.5°	5059.0	4946.5	4821.8	4662.8	4482.2	4271.8	3644.0	2831.3	1866.5	1628.3	1549.8
-35°	4868.6	4747.2	4608.2	4439.8	4251.2	3644.0	2912.1	2024.0	1655.9	1559.4	1528.2
-37.5°	4637.9	4510.9	4356.1	4103.5	3509.5	2831.3	2024.0	1665.2	1564.3	1535.4	1468.2
-40°	4365.2	4233.1	3765.1	3243.5	2590.3	1866.5	1655.9	1564.3	1537.8	1484.1	1387.9
-42.5°	3713.2	3301.8	2792.8	2194.4	1709.7	1628.3	1559.4	1535.4	1484.1	1395.8	1276.5
-45°	2634.6	2165.6	1721.3	1654.5	1582.9	1549.8	1528.2	1468.2	1387.9	1276.5	1153.4
-47.5°	1691.7	1639.7	1582.5	1553.5	1535.6	1505.2	1436.6	1362.2	1254.4	1143.3	1035.5
-50°	1559.5	1546.6	1532.4	1506.8	1450.1	1389.8	1306.9	1210.6	1113.0	1015.6	913.1
-52.5°	1514.7	1474.2	1429.5	1380.9	1310.7	1230.7	1146.3	1063.1	976.0	882.4	784.2
-55°	1376.8	1326.6	1267.8	1203.8	1136.0	1067.3	994.3	915.9	831.8	744.0	656.2
-57.5°	1181.5	1134.2	1084.2	1029.6	970.7	905.7	835.8	762.0	686.6	608.7	530.2
-60°	994.3	953.1	905.7	853.9	797.8	737.9	676.4	611.4	543.0	484.9	424.7
-62.5°	802.6	763.7	721.6	676.4	627.5	575.1	523.4	475.7	425.3	373.0	320.8
-65°	613.7	580.1	543.0	509.9	474.3	436.1	395.4	353.6	310.5	265.2	219.3
-67.5°	448.8	424.7	398.0	369.2	339.1	306.7	272.2	235.5	202.4	169.9	135.9
-70°	301.7	281.5	259.2	234.7	211.4	188.5	164.0	138.1	110.6	92.3	78.4
-72.5°	171.1	157.1	141.6	124.5	106.0	94.3	84.5	74.0	63.0	51.4	42.9
-75°	80.3	74.8	68.7	62.0	54.7	46.9	42.7	40.1	37.3	34.4	31.4
-77.5°	39.3	38.0	36.5	34.9	33.1	31.2	29.2	27.4	26.0	24.6	23.1
-80°	25.4	24.8	24.1	23.3	22.5	21.6	20.7	19.6	18.6	17.7	17.0
-82.5°	17.0	16.7	16.4	16.1	15.8	15.4	15.0	14.6	14.1	13.6	13.2
-85°	12.0	11.9	11.7	11.5	11.4	11.2	11.0	10.8	10.5	10.3	10.0
-87.5°	7.8	7.7	7.5	7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731241 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	5.3	5.1	4.8	4.5	4.1	3.8	3.5	3.2	2.8	2.5
85°	9.8	9.5	9.2	8.9	8.6	8.3	7.7	7.0	6.3	5.7	5.0
82.5°	12.6	12.2	11.8	11.3	10.9	10.4	9.9	9.4	8.9	8.4	7.5
80°	16.3	15.6	14.8	14.1	13.3	12.5	11.8	11.2	10.5	9.8	9.1
77.5°	21.6	19.9	18.3	17.2	16.2	15.2	14.1	13.0	12.1	11.2	10.4
75°	28.3	26.1	24.1	22.1	19.9	17.9	16.6	15.3	14.0	12.7	11.6
72.5°	39.2	35.4	31.4	27.5	25.0	22.5	19.9	17.6	16.0	14.5	12.9
70°	64.0	49.0	41.2	36.5	31.7	27.2	24.2	21.2	18.1	16.3	14.5
67.5°	100.9	84.0	66.5	48.5	40.2	34.6	29.0	25.1	21.6	18.1	16.0
65°	179.8	139.0	99.2	79.2	58.6	42.4	36.1	29.7	25.1	21.2	17.6
62.5°	266.5	213.2	166.8	119.0	86.8	63.7	43.1	36.1	29.0	24.2	19.9
60°	363.0	301.7	238.4	183.6	130.1	89.4	63.7	42.4	34.6	27.2	22.5
57.5°	462.3	392.2	322.9	252.5	189.2	130.1	86.8	58.6	40.2	31.7	25.0
55°	565.4	485.1	407.3	330.0	252.5	183.6	119.0	79.2	48.5	36.5	27.5
52.5°	685.0	584.4	492.7	407.3	322.9	238.4	166.8	99.2	66.5	41.2	31.4
50°	804.5	694.7	584.4	485.1	392.2	301.7	213.2	139.0	84.0	49.0	35.4
47.5°	923.3	804.5	685.0	565.4	462.3	363.0	266.5	179.8	100.9	64.0	39.2
45°	1035.5	913.1	784.2	656.2	530.2	424.7	320.8	219.3	135.9	78.4	42.9
42.5°	1143.3	1015.6	882.4	744.0	608.7	484.9	373.0	265.2	169.9	92.3	51.4
40°	1254.4	1113.0	976.0	831.8	686.6	543.0	425.3	310.5	202.4	110.6	63.0
37.5°	1362.2	1210.6	1063.1	915.9	762.0	611.4	475.7	353.6	235.5	138.1	74.0
35°	1436.6	1306.9	1146.3	994.3	835.8	676.4	523.4	395.4	272.2	164.0	84.5
32.5°	1505.2	1389.8	1230.7	1067.3	905.7	737.9	575.1	436.1	306.7	188.5	94.3
30°	1535.6	1450.1	1310.7	1136.0	970.7	797.8	627.5	474.3	339.1	211.4	106.0
27.5°	1553.5	1506.8	1380.9	1203.8	1029.6	853.9	676.4	509.9	369.2	234.7	124.5
25°	1582.5	1532.4	1429.5	1267.8	1084.2	905.7	721.6	543.0	398.0	259.2	141.6
22.5°	1639.7	1546.6	1474.2	1326.6	1134.2	953.1	763.7	580.1	424.7	281.5	157.1
20°	1691.7	1559.5	1514.7	1376.8	1181.5	994.3	802.6	613.7	448.8	301.7	171.1
17.5°	1794.0	1586.0	1529.9	1410.1	1224.9	1031.0	837.1	643.5	470.2	319.6	183.6
15°	2135.9	1623.8	1539.3	1439.1	1262.9	1063.1	867.3	669.6	488.9	335.2	194.4
12.5°	2428.9	1656.1	1547.2	1464.0	1295.3	1090.5	893.0	691.7	504.8	348.5	203.7
10°	2671.1	1682.8	1553.8	1484.4	1322.0	1113.0	914.2	710.0	517.9	359.4	211.3
7.5°	2861.1	1703.7	1558.9	1500.5	1342.9	1130.6	930.7	724.2	528.1	367.9	217.2
5°	2997.7	1718.7	1562.6	1512.0	1357.9	1143.3	942.6	734.4	535.4	374.0	221.4
2.5°	3080.1	1727.8	1564.9	1518.9	1366.9	1150.9	949.7	740.6	539.8	377.7	224.0
0°	3107.6	1730.8	1565.6	1521.2	1369.9	1153.4	952.1	742.6	541.3	378.9	224.8
-2.5°	3080.1	1727.8	1564.9	1518.9	1366.9	1150.9	949.7	740.6	539.8	377.7	224.0
-5°	2997.7	1718.7	1562.6	1512.0	1357.9	1143.3	942.6	734.4	535.4	374.0	221.4
-7.5°	2861.1	1703.7	1558.9	1500.5	1342.9	1130.6	930.7	724.2	528.1	367.9	217.2
-10°	2671.1	1682.8	1553.8	1484.4	1322.0	1113.0	914.2	710.0	517.9	359.4	211.3
-12.5°	2428.9	1656.1	1547.2	1464.0	1295.3	1090.5	893.0	691.7	504.8	348.5	203.7
-15°	2135.9	1623.8	1539.3	1439.1	1262.9	1063.1	867.3	669.6	488.9	335.2	194.4
-17.5°	1794.0	1586.0	1529.9	1410.1	1224.9	1031.0	837.1	643.5	470.2	319.6	183.6
-20°	1691.7	1559.5	1514.7	1376.8	1181.5	994.3	802.6	613.7	448.8	301.7	171.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1639.7	1546.6	1474.2	1326.6	1134.2	953.1	763.7	580.1	424.7	281.5	157.1
-25°	1582.5	1532.4	1429.5	1267.8	1084.2	905.7	721.6	543.0	398.0	259.2	141.6
-27.5°	1553.5	1506.8	1380.9	1203.8	1029.6	853.9	676.4	509.9	369.2	234.7	124.5
-30°	1535.6	1450.1	1310.7	1136.0	970.7	797.8	627.5	474.3	339.1	211.4	106.0
-32.5°	1505.2	1389.8	1230.7	1067.3	905.7	737.9	575.1	436.1	306.7	188.5	94.3
-35°	1436.6	1306.9	1146.3	994.3	835.8	676.4	523.4	395.4	272.2	164.0	84.5
-37.5°	1362.2	1210.6	1063.1	915.9	762.0	611.4	475.7	353.6	235.5	138.1	74.0
-40°	1254.4	1113.0	976.0	831.8	686.6	543.0	425.3	310.5	202.4	110.6	63.0
-42.5°	1143.3	1015.6	882.4	744.0	608.7	484.9	373.0	265.2	169.9	92.3	51.4
-45°	1035.5	913.1	784.2	656.2	530.2	424.7	320.8	219.3	135.9	78.4	42.9
-47.5°	923.3	804.5	685.0	565.4	462.3	363.0	266.5	179.8	100.9	64.0	39.2
-50°	804.5	694.7	584.4	485.1	392.2	301.7	213.2	139.0	84.0	49.0	35.4
-52.5°	685.0	584.4	492.7	407.3	322.9	238.4	166.8	99.2	66.5	41.2	31.4
-55°	565.4	485.1	407.3	330.0	252.5	183.6	119.0	79.2	48.5	36.5	27.5
-57.5°	462.3	392.2	322.9	252.5	189.2	130.1	86.8	58.6	40.2	31.7	25.0
-60°	363.0	301.7	238.4	183.6	130.1	89.4	63.7	42.4	34.6	27.2	22.5
-62.5°	266.5	213.2	166.8	119.0	86.8	63.7	43.1	36.1	29.0	24.2	19.9
-65°	179.8	139.0	99.2	79.2	58.6	42.4	36.1	29.7	25.1	21.2	17.6
-67.5°	100.9	84.0	66.5	48.5	40.2	34.6	29.0	25.1	21.6	18.1	16.0
-70°	64.0	49.0	41.2	36.5	31.7	27.2	24.2	21.2	18.1	16.3	14.5
-72.5°	39.2	35.4	31.4	27.5	25.0	22.5	19.9	17.6	16.0	14.5	12.9
-75°	28.3	26.1	24.1	22.1	19.9	17.9	16.6	15.3	14.0	12.7	11.6
-77.5°	21.6	19.9	18.3	17.2	16.2	15.2	14.1	13.0	12.1	11.2	10.4
-80°	16.3	15.6	14.8	14.1	13.3	12.5	11.8	11.2	10.5	9.8	9.1
-82.5°	12.6	12.2	11.8	11.3	10.9	10.4	9.9	9.4	8.9	8.4	7.5
-85°	9.8	9.5	9.2	8.9	8.6	8.3	7.7	7.0	6.3	5.7	5.0
-87.5°	5.6	5.3	5.1	4.8	4.5	4.1	3.8	3.5	3.2	2.8	2.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.8	1.4	1.1	0.7	0.4	0.0
85°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
82.5°	6.4	5.4	4.3	3.2	2.2	1.1	0.0
80°	8.4	7.2	5.7	4.3	2.9	1.4	0.0
77.5°	9.5	8.6	7.2	5.4	3.6	1.8	0.0
75°	10.6	9.5	8.4	6.4	4.3	2.1	0.0
72.5°	11.6	10.4	9.1	7.5	5.0	2.5	0.0
70°	12.7	11.2	9.8	8.4	5.7	2.8	0.0
67.5°	14.0	12.1	10.5	8.9	6.3	3.2	0.0
65°	15.3	13.0	11.2	9.4	7.0	3.5	0.0
62.5°	16.6	14.1	11.8	9.9	7.7	3.8	0.0
60°	17.9	15.2	12.5	10.4	8.3	4.1	0.0
57.5°	19.9	16.2	13.3	10.9	8.6	4.5	0.0
55°	22.1	17.2	14.1	11.3	8.9	4.8	0.0
52.5°	24.1	18.3	14.8	11.8	9.2	5.1	0.0
50°	26.1	19.9	15.6	12.2	9.5	5.3	0.0
47.5°	28.3	21.6	16.3	12.6	9.8	5.6	0.0
45°	31.4	23.1	17.0	13.2	10.0	5.9	0.0
42.5°	34.4	24.6	17.7	13.6	10.3	6.1	0.0
40°	37.3	26.0	18.6	14.1	10.5	6.4	0.0
37.5°	40.1	27.4	19.6	14.6	10.8	6.6	0.0
35°	42.7	29.2	20.7	15.0	11.0	6.8	0.0
32.5°	46.9	31.2	21.6	15.4	11.2	7.0	0.0
30°	54.7	33.1	22.5	15.8	11.4	7.2	0.0
27.5°	62.0	34.9	23.3	16.1	11.5	7.4	0.0
25°	68.7	36.5	24.1	16.4	11.7	7.5	0.0
22.5°	74.8	38.0	24.8	16.7	11.9	7.7	0.0
20°	80.3	39.3	25.4	17.0	12.0	7.8	0.0
17.5°	85.2	40.5	26.0	17.2	12.1	7.9	0.0
15°	89.4	41.5	26.5	17.4	12.2	8.0	0.0
12.5°	93.0	42.4	26.9	17.6	12.3	8.1	0.0
10°	96.0	43.1	27.2	17.7	12.4	8.2	0.0
7.5°	98.3	43.7	27.5	17.9	12.4	8.2	0.0
5°	100.0	44.1	27.6	17.9	12.5	8.3	0.0
2.5°	101.0	44.3	27.8	18.0	12.5	8.3	0.0
0°	101.3	44.4	27.8	18.0	12.5	8.3	0.0
-2.5°	101.0	44.3	27.8	18.0	12.5	8.3	0.0
-5°	100.0	44.1	27.6	17.9	12.5	8.3	0.0
-7.5°	98.3	43.7	27.5	17.9	12.4	8.2	0.0
-10°	96.0	43.1	27.2	17.7	12.4	8.2	0.0
-12.5°	93.0	42.4	26.9	17.6	12.3	8.1	0.0
-15°	89.4	41.5	26.5	17.4	12.2	8.0	0.0
-17.5°	85.2	40.5	26.0	17.2	12.1	7.9	0.0
-20°	80.3	39.3	25.4	17.0	12.0	7.8	0.0



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	74.8	38.0	24.8	16.7	11.9	7.7	0.0
-25°	68.7	36.5	24.1	16.4	11.7	7.5	0.0
-27.5°	62.0	34.9	23.3	16.1	11.5	7.4	0.0
-30°	54.7	33.1	22.5	15.8	11.4	7.2	0.0
-32.5°	46.9	31.2	21.6	15.4	11.2	7.0	0.0
-35°	42.7	29.2	20.7	15.0	11.0	6.8	0.0
-37.5°	40.1	27.4	19.6	14.6	10.8	6.6	0.0
-40°	37.3	26.0	18.6	14.1	10.5	6.4	0.0
-42.5°	34.4	24.6	17.7	13.6	10.3	6.1	0.0
-45°	31.4	23.1	17.0	13.2	10.0	5.9	0.0
-47.5°	28.3	21.6	16.3	12.6	9.8	5.6	0.0
-50°	26.1	19.9	15.6	12.2	9.5	5.3	0.0
-52.5°	24.1	18.3	14.8	11.8	9.2	5.1	0.0
-55°	22.1	17.2	14.1	11.3	8.9	4.8	0.0
-57.5°	19.9	16.2	13.3	10.9	8.6	4.5	0.0
-60°	17.9	15.2	12.5	10.4	8.3	4.1	0.0
-62.5°	16.6	14.1	11.8	9.9	7.7	3.8	0.0
-65°	15.3	13.0	11.2	9.4	7.0	3.5	0.0
-67.5°	14.0	12.1	10.5	8.9	6.3	3.2	0.0
-70°	12.7	11.2	9.8	8.4	5.7	2.8	0.0
-72.5°	11.6	10.4	9.1	7.5	5.0	2.5	0.0
-75°	10.6	9.5	8.4	6.4	4.3	2.1	0.0
-77.5°	9.5	8.6	7.2	5.4	3.6	1.8	0.0
-80°	8.4	7.2	5.7	4.3	2.9	1.4	0.0
-82.5°	6.4	5.4	4.3	3.2	2.2	1.1	0.0
-85°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
-87.5°	2.1	1.8	1.4	1.1	0.7	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

