

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: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-1S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-80-1S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

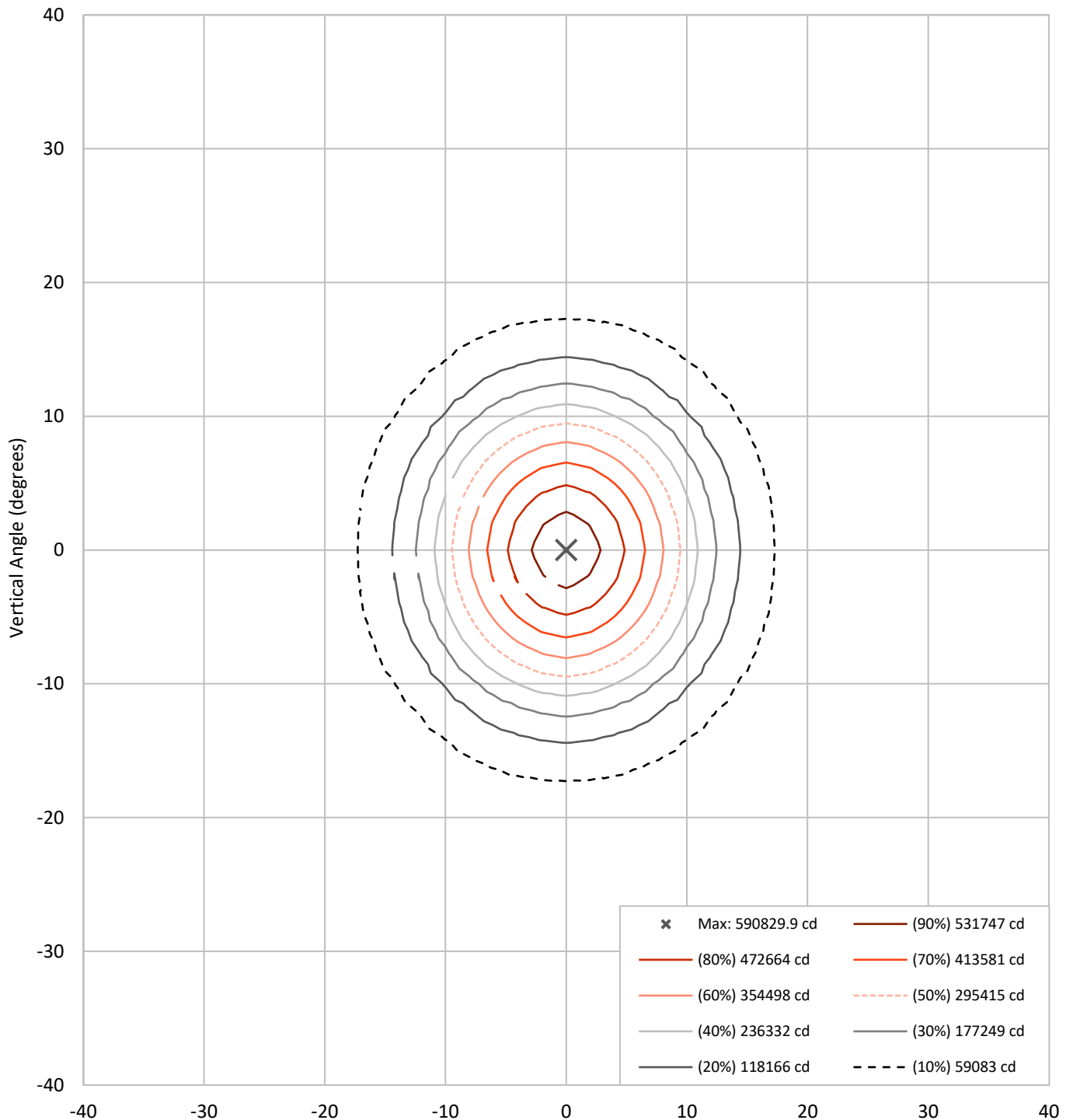
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	80037.1 lumens	Max Intensity:	590829.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	34497 lumens	Field Lumens:	63551 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%

Input Watts (W): 577.1
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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CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-HEG

Iso-Candela Plot





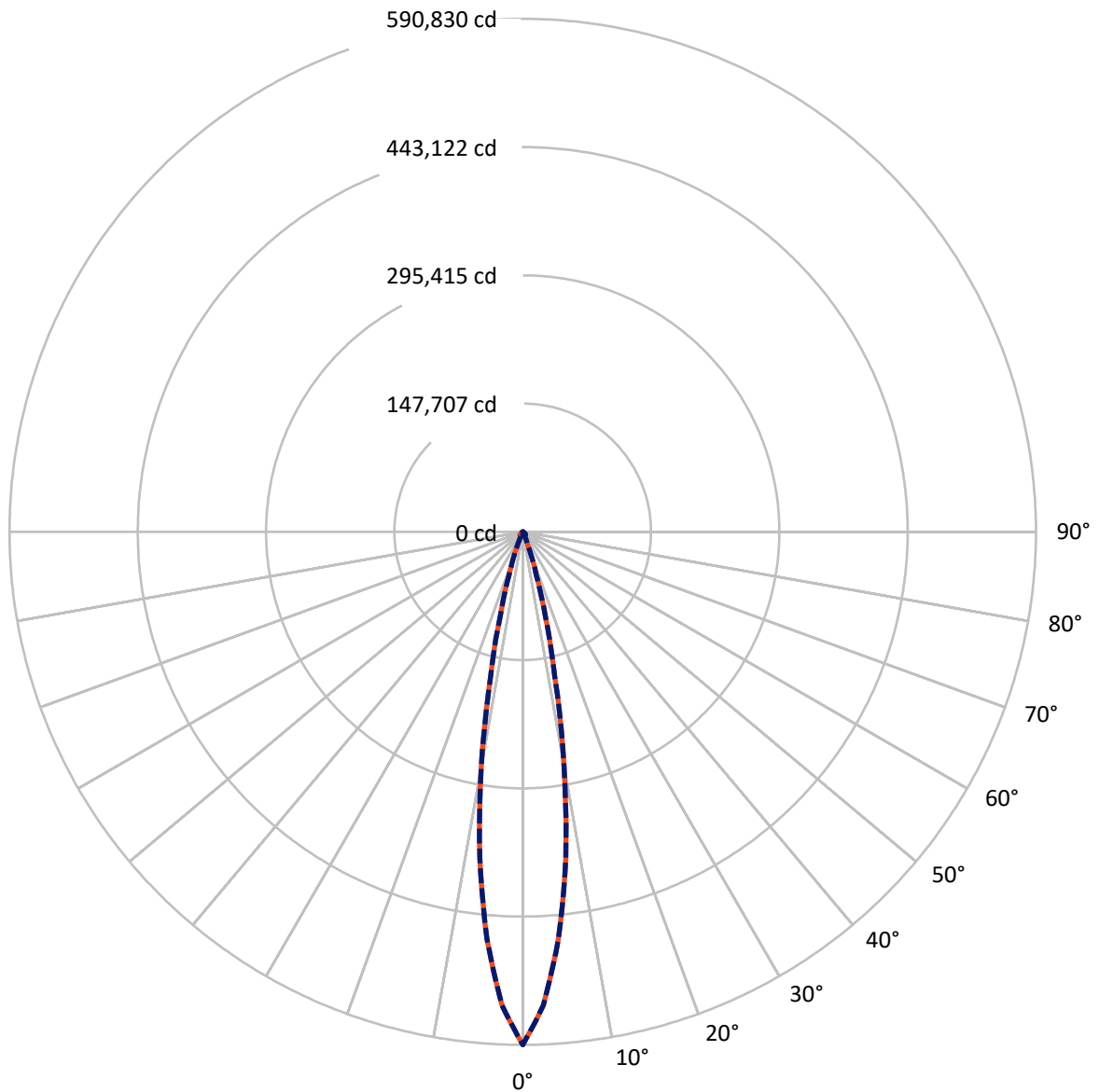
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Lumen Table

90	0.1	0.8	2.8	6.9	9.2	6.9	2.8	0.8	0.1										
80	0.1	0.8	2.8	6.9	9.2	6.9	2.8	0.8	0.1										
70	0.4	0.4	1.7	5.0	10.1	15.6	20.2	22.7	22.7	20.2	15.6	10.1	5.0	1.7	0.4	0.4			
60		1.3	5.9	14.5	24.9	33.7	39.5	42.5	42.5	39.5	33.7	24.9	14.5	5.9	1.3				
50	0.9	3.1	11.8	24.7	36.1	61.1	96.3	115.7	115.7	96.3	61.1	36.1	24.7	11.8	3.1	0.9			
40		5.4	17.6	31.2	73.8	126.4	139.6	139.9	139.9	139.6	126.4	73.8	31.2	17.6	5.4				
30	2.0	7.5	21.5	48.2	114.3	126.6	139.1	241.2	241.2	139.1	126.6	114.3	48.2	21.5	7.5	2.0			
20		9.1	23.6	71.5	118.3	130.7	764.3	2854.0	2854.0	764.3	130.7	118.3	71.5	23.6	9.1				
10	2.5	10.0	24.6	83.1	114.8	221.8	2784.9	10959.6	10959.6	2784.9	221.8	114.8	83.1	24.6	10.0	2.5			
0		10.0	24.6	83.1	114.8	221.8	2784.9	10959.6	10959.6	2784.9	221.8	114.8	83.1	24.6	10.0				
-10	2.0	9.1	23.6	71.5	118.3	130.7	764.3	2854.0	2854.0	764.3	130.7	118.3	71.5	23.6	9.1	2.0			
-20		7.5	21.5	48.2	114.3	126.6	139.1	241.2	241.2	139.1	126.6	114.3	48.2	21.5	7.5				
-30	0.9	5.4	17.6	31.2	73.8	126.4	139.6	139.9	139.9	139.6	126.4	73.8	31.2	17.6	5.4	0.9			
-40		3.1	11.8	24.7	36.1	61.1	96.3	115.7	115.7	96.3	61.1	36.1	24.7	11.8	3.1				
-50	0.4	1.3	5.9	14.5	24.9	33.7	39.5	42.5	42.5	39.5	33.7	24.9	14.5	5.9	1.3	0.4			
-60		0.4	1.7	5.0	10.1	15.6	20.2	22.7	22.7	20.2	15.6	10.1	5.0	1.7	0.4				
-70	0.1	0.8	2.8	6.9	9.2	6.9	2.8	0.8	0.1						0.1				
-80		0.1	0.8	2.8	6.9	9.2	6.9	2.8	0.8	0.1									
-90	0.1	0.8	2.8	6.9	9.2	6.9	2.8	0.8	0.1										

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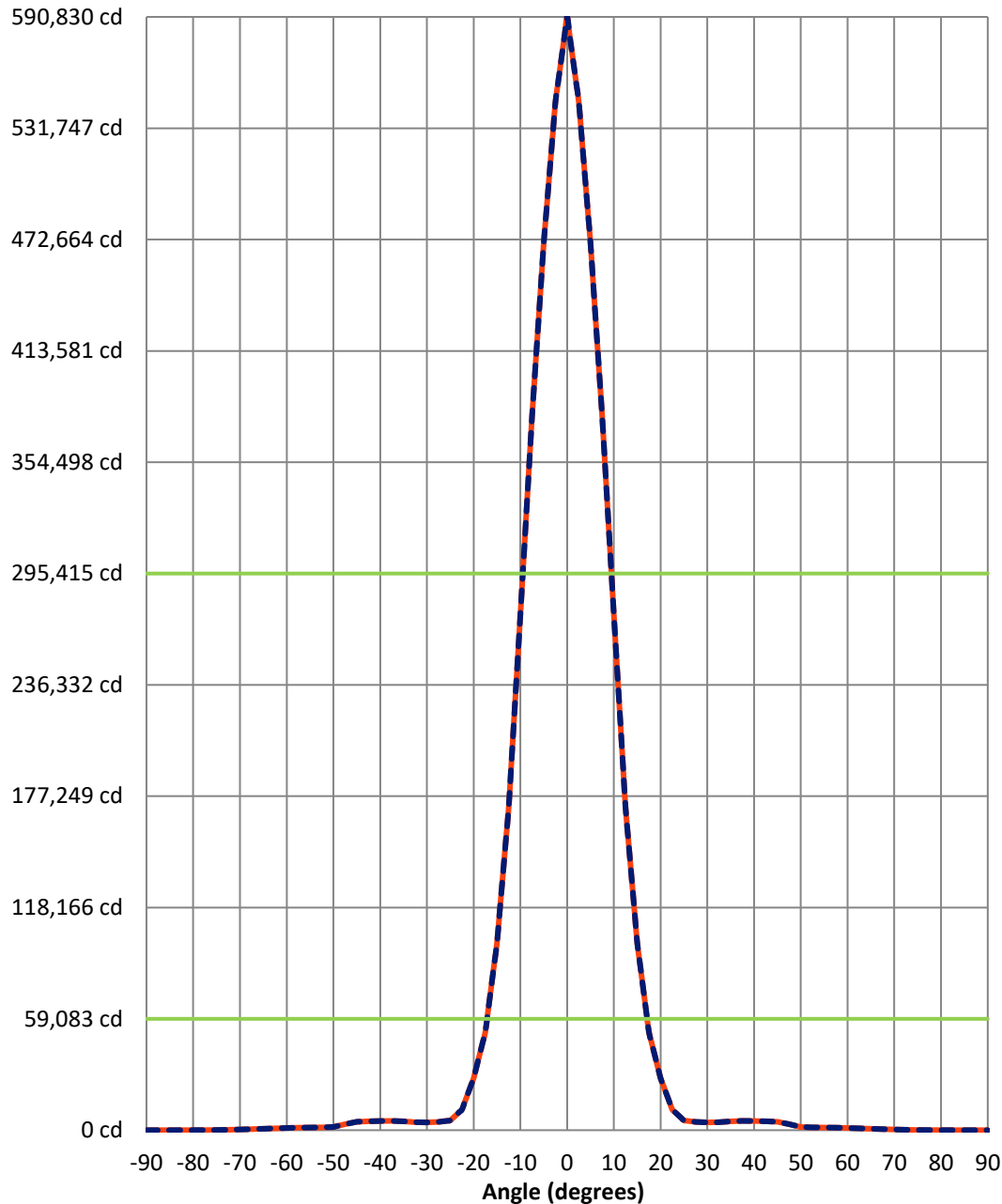
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 19°
 Lumens: 34497
 Efficiency: 43.1%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 63551
 Efficiency: 79.4%

Spill:
 Lumens: 16486.1
 Efficiency: 20.6%

— 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	0.2	0.5	0.7	1.0	1.2	1.5	1.7	1.9	2.2	2.4
85°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.4	4.8
82.5°	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.8	6.3	6.8
80°	0.0	1.0	2.0	3.0	3.9	4.9	5.8	6.5	7.2	7.9	8.6
77.5°	0.0	1.2	2.5	3.7	4.9	6.0	6.9	7.8	8.6	9.5	10.7
75°	0.0	1.5	2.9	4.4	5.8	6.9	8.0	9.0	10.2	12.2	14.3
72.5°	0.0	1.7	3.4	5.1	6.5	7.8	9.0	10.5	13.0	15.4	17.7
70°	0.0	1.9	3.9	5.8	7.2	8.6	10.2	13.0	15.7	18.5	21.6
67.5°	0.0	2.2	4.4	6.3	7.9	9.5	12.2	15.4	18.5	22.0	25.6
65°	0.0	2.4	4.8	6.8	8.6	10.7	14.3	17.7	21.6	25.6	30.3
62.5°	0.0	2.6	5.3	7.3	9.2	12.4	16.2	20.3	24.7	29.5	36.8
60°	0.0	2.8	5.7	7.8	9.9	14.0	18.2	22.9	27.7	35.3	43.3
57.5°	0.0	3.1	6.0	8.3	11.1	15.6	20.4	25.5	32.3	41.0	59.4
55°	0.0	3.3	6.3	8.7	12.3	17.1	22.5	28.0	37.2	49.4	79.9
52.5°	0.0	3.5	6.6	9.2	13.5	18.7	24.6	32.0	42.0	67.3	99.8
50°	0.0	3.7	6.9	9.6	14.7	20.4	26.6	36.1	49.8	84.7	137.3
47.5°	0.0	3.9	7.2	10.1	15.8	22.0	28.8	40.0	64.8	101.5	175.7
45°	0.0	4.0	7.4	10.9	16.9	23.6	32.0	43.8	79.2	134.4	212.7
42.5°	0.0	4.2	7.7	11.7	17.9	25.1	35.1	52.3	93.0	166.3	259.0
40°	0.0	4.4	7.9	12.4	19.0	26.5	38.1	63.8	110.7	196.9	305.2
37.5°	0.0	4.5	8.2	13.1	20.1	27.9	40.9	74.8	136.4	228.8	349.1
35°	0.0	4.7	8.4	13.8	21.1	29.7	43.5	85.1	160.8	266.2	392.5
32.5°	0.0	4.8	8.6	14.4	22.0	31.8	47.8	94.9	183.8	301.4	435.7
30°	0.0	4.9	8.8	15.0	23.0	33.8	55.5	106.3	205.3	334.4	476.3
27.5°	0.0	5.1	8.9	15.5	23.8	35.6	62.8	123.7	228.0	365.0	514.1
25°	0.0	5.2	9.1	16.0	24.6	37.2	69.4	139.7	252.9	395.2	549.2
22.5°	0.0	5.3	9.3	16.4	25.3	38.7	75.5	154.3	275.7	423.6	587.6
20°	0.0	5.4	9.4	16.9	25.9	40.1	81.0	167.5	296.2	449.2	622.3
17.5°	0.0	5.4	9.5	17.2	26.4	41.3	85.8	179.2	314.5	472.0	653.1
15°	0.0	5.5	9.6	17.5	26.9	42.4	90.1	189.4	330.4	491.8	680.0
12.5°	0.0	5.6	9.7	17.8	27.4	43.3	93.7	198.1	343.9	508.7	702.9
10°	0.0	5.6	9.8	18.0	27.7	44.0	96.6	205.2	355.0	522.6	721.8
7.5°	0.0	5.7	9.8	18.2	28.0	44.6	98.9	210.7	363.7	533.5	736.5
5°	0.0	5.7	9.9	18.3	28.1	45.0	100.6	214.7	369.9	541.3	747.0
2.5°	0.0	5.7	9.9	18.4	28.3	45.2	101.6	217.1	373.7	545.9	753.4
0°	0.0	5.7	9.9	18.4	28.3	45.2	101.6	217.1	373.7	545.9	753.4
-2.5°	0.0	5.7	9.9	18.4	28.3	45.2	101.6	217.1	373.7	545.9	753.4
-5°	0.0	5.7	9.9	18.3	28.1	45.0	100.6	214.7	369.9	541.3	747.0
-7.5°	0.0	5.7	9.8	18.2	28.0	44.6	98.9	210.7	363.7	533.5	736.5
-10°	0.0	5.6	9.8	18.0	27.7	44.0	96.6	205.2	355.0	522.6	721.8
-12.5°	0.0	5.6	9.7	17.8	27.4	43.3	93.7	198.1	343.9	508.7	702.9
-15°	0.0	5.5	9.6	17.5	26.9	42.4	90.1	189.4	330.4	491.8	680.0
-17.5°	0.0	5.4	9.5	17.2	26.4	41.3	85.8	179.2	314.5	472.0	653.1
-20°	0.0	5.4	9.4	16.9	25.9	40.1	81.0	167.5	296.2	449.2	622.3



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.3	9.3	16.4	25.3	38.7	75.5	154.3	275.7	423.6	587.6
-25°	0.0	5.2	9.1	16.0	24.6	37.2	69.4	139.7	252.9	395.2	549.2
-27.5°	0.0	5.1	8.9	15.5	23.8	35.6	62.8	123.7	228.0	365.0	514.1
-30°	0.0	4.9	8.8	15.0	23.0	33.8	55.5	106.3	205.3	334.4	476.3
-32.5°	0.0	4.8	8.6	14.4	22.0	31.8	47.8	94.9	183.8	301.4	435.7
-35°	0.0	4.7	8.4	13.8	21.1	29.7	43.5	85.1	160.8	266.2	392.5
-37.5°	0.0	4.5	8.2	13.1	20.1	27.9	40.9	74.8	136.4	228.8	349.1
-40°	0.0	4.4	7.9	12.4	19.0	26.5	38.1	63.8	110.7	196.9	305.2
-42.5°	0.0	4.2	7.7	11.7	17.9	25.1	35.1	52.3	93.0	166.3	259.0
-45°	0.0	4.0	7.4	10.9	16.9	23.6	32.0	43.8	79.2	134.4	212.7
-47.5°	0.0	3.9	7.2	10.1	15.8	22.0	28.8	40.0	64.8	101.5	175.7
-50°	0.0	3.7	6.9	9.6	14.7	20.4	26.6	36.1	49.8	84.7	137.3
-52.5°	0.0	3.5	6.6	9.2	13.5	18.7	24.6	32.0	42.0	67.3	99.8
-55°	0.0	3.3	6.3	8.7	12.3	17.1	22.5	28.0	37.2	49.4	79.9
-57.5°	0.0	3.1	6.0	8.3	11.1	15.6	20.4	25.5	32.3	41.0	59.4
-60°	0.0	2.8	5.7	7.8	9.9	14.0	18.2	22.9	27.7	35.3	43.3
-62.5°	0.0	2.6	5.3	7.3	9.2	12.4	16.2	20.3	24.7	29.5	36.8
-65°	0.0	2.4	4.8	6.8	8.6	10.7	14.3	17.7	21.6	25.6	30.3
-67.5°	0.0	2.2	4.4	6.3	7.9	9.5	12.2	15.4	18.5	22.0	25.6
-70°	0.0	1.9	3.9	5.8	7.2	8.6	10.2	13.0	15.7	18.5	21.6
-72.5°	0.0	1.7	3.4	5.1	6.5	7.8	9.0	10.5	13.0	15.4	17.7
-75°	0.0	1.5	2.9	4.4	5.8	6.9	8.0	9.0	10.2	12.2	14.3
-77.5°	0.0	1.2	2.5	3.7	4.9	6.0	6.9	7.8	8.6	9.5	10.7
-80°	0.0	1.0	2.0	3.0	3.9	4.9	5.8	6.5	7.2	7.9	8.6
-82.5°	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.8	6.3	6.8
-85°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.4	4.8
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.5	1.7	1.9	2.2	2.4
-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°	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5
85°	5.3	5.7	6.0	6.3	6.6	6.9	7.2	7.4	7.7	7.9	8.2
82.5°	7.3	7.8	8.3	8.7	9.2	9.6	10.1	10.9	11.7	12.4	13.1
80°	9.2	9.9	11.1	12.3	13.5	14.7	15.8	16.9	17.9	19.0	20.1
77.5°	12.4	14.0	15.6	17.1	18.7	20.4	22.0	23.6	25.1	26.5	27.9
75°	16.2	18.2	20.4	22.5	24.6	26.6	28.8	32.0	35.1	38.1	40.9
72.5°	20.3	22.9	25.5	28.0	32.0	36.1	40.0	43.8	52.3	63.8	74.8
70°	24.7	27.7	32.3	37.2	42.0	49.8	64.8	79.2	93.0	110.7	136.4
67.5°	29.5	35.3	41.0	49.4	67.3	84.7	101.5	134.4	166.3	196.9	228.8
65°	36.8	43.3	59.4	79.9	99.8	137.3	175.7	212.7	259.0	305.2	349.1
62.5°	44.0	64.5	87.5	118.5	163.4	207.0	260.4	315.7	368.8	424.3	477.7
60°	64.5	90.1	129.0	179.2	231.8	296.2	358.7	423.6	487.6	549.2	619.9
57.5°	87.5	129.0	184.5	246.1	317.9	389.0	463.6	535.7	617.1	697.7	775.4
55°	118.5	179.2	246.1	325.1	405.0	487.8	572.4	666.3	757.0	847.1	933.4
52.5°	163.4	231.8	317.9	405.0	495.9	592.1	696.0	798.2	899.0	994.3	1080.7
50°	207.0	296.2	389.0	487.8	592.1	706.0	819.0	930.5	1033.5	1130.1	1216.1
47.5°	260.4	358.7	463.6	572.4	696.0	819.0	941.0	1053.3	1160.1	1251.3	1337.9
45°	315.7	423.6	535.7	666.3	798.2	930.5	1053.3	1170.1	1269.1	1350.8	1380.9
42.5°	368.8	487.6	617.1	757.0	899.0	1033.5	1160.1	1269.1	1353.8	1386.8	1425.1
40°	424.3	549.2	697.7	847.1	994.3	1130.1	1251.3	1350.8	1386.8	1429.2	1474.9
37.5°	477.7	619.9	775.4	933.4	1080.7	1216.1	1337.9	1380.9	1425.1	1474.9	1611.8
35°	528.5	687.1	851.2	1012.4	1163.1	1293.4	1369.0	1412.8	1466.5	1599.3	2017.5
32.5°	582.4	750.6	923.0	1084.8	1232.2	1351.5	1394.7	1449.9	1561.9	1847.3	2890.3
30°	636.6	812.2	989.0	1152.9	1296.5	1374.1	1425.4	1500.5	1672.0	2629.9	3642.0
27.5°	687.1	869.7	1047.4	1210.6	1348.2	1395.3	1456.2	1597.3	2201.8	3342.3	4311.4
25°	733.8	923.0	1101.5	1262.1	1366.4	1420.0	1499.9	1687.7	2848.7	3929.9	4552.2
22.5°	777.2	971.6	1151.1	1309.3	1383.1	1444.4	1577.3	2170.7	3407.9	4455.0	4674.5
20°	817.1	1012.4	1192.7	1346.7	1398.3	1466.7	1647.7	2677.7	3871.5	4559.4	4757.4
17.5°	852.6	1048.8	1227.6	1359.1	1415.7	1504.8	1769.0	3133.1	4288.6	4653.5	4818.6
15°	883.6	1080.7	1258.1	1370.0	1431.8	1555.8	2138.6	3481.3	4492.9	4727.3	4871.8
12.5°	910.0	1107.8	1284.2	1379.3	1445.5	1599.5	2455.3	3772.7	4559.0	4770.4	4886.4
10°	931.7	1130.1	1305.6	1387.0	1456.8	1635.6	2717.2	4014.1	4613.8	4806.3	4898.6
7.5°	948.7	1147.5	1322.4	1392.9	1465.6	1663.9	2922.6	4203.6	4656.9	4834.5	4908.2
5°	960.8	1160.1	1334.4	1397.2	1472.0	1684.3	3070.3	4340.0	4687.9	4854.9	4915.2
2.5°	968.2	1167.6	1341.7	1399.8	1475.8	1696.5	3159.4	4422.2	4706.6	4867.2	4919.4
0°	970.6	1170.1	1344.1	1400.7	1477.1	1700.6	3189.1	4449.7	4712.9	4871.3	4920.8
-2.5°	968.2	1167.6	1341.7	1399.8	1475.8	1696.5	3159.4	4422.2	4706.6	4867.2	4919.4
-5°	960.8	1160.1	1334.4	1397.2	1472.0	1684.3	3070.3	4340.0	4687.9	4854.9	4915.2
-7.5°	948.7	1147.5	1322.4	1392.9	1465.6	1663.9	2922.6	4203.6	4656.9	4834.5	4908.2
-10°	931.7	1130.1	1305.6	1387.0	1456.8	1635.6	2717.2	4014.1	4613.8	4806.3	4898.6
-12.5°	910.0	1107.8	1284.2	1379.3	1445.5	1599.5	2455.3	3772.7	4559.0	4770.4	4886.4
-15°	883.6	1080.7	1258.1	1370.0	1431.8	1555.8	2138.6	3481.3	4492.9	4727.3	4871.8
-17.5°	852.6	1048.8	1227.6	1359.1	1415.7	1504.8	1769.0	3133.1	4288.6	4653.5	4818.6
-20°	817.1	1012.4	1192.7	1346.7	1398.3	1466.7	1647.7	2677.7	3871.5	4559.4	4757.4



REPORT NUMBER: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	777.2	971.6	1151.1	1309.3	1383.1	1444.4	1577.3	2170.7	3407.9	4455.0	4674.5
-25°	733.8	923.0	1101.5	1262.1	1366.4	1420.0	1499.9	1687.7	2848.7	3929.9	4552.2
-27.5°	687.1	869.7	1047.4	1210.6	1348.2	1395.3	1456.2	1597.3	2201.8	3342.3	4311.4
-30°	636.6	812.2	989.0	1152.9	1296.5	1374.1	1425.4	1500.5	1672.0	2629.9	3642.0
-32.5°	582.4	750.6	923.0	1084.8	1232.2	1351.5	1394.7	1449.9	1561.9	1847.3	2890.3
-35°	528.5	687.1	851.2	1012.4	1163.1	1293.4	1369.0	1412.8	1466.5	1599.3	2017.5
-37.5°	477.7	619.9	775.4	933.4	1080.7	1216.1	1337.9	1380.9	1425.1	1474.9	1611.8
-40°	424.3	549.2	697.7	847.1	994.3	1130.1	1251.3	1350.8	1386.8	1429.2	1474.9
-42.5°	368.8	487.6	617.1	757.0	899.0	1033.5	1160.1	1269.1	1353.8	1386.8	1425.1
-45°	315.7	423.6	535.7	666.3	798.2	930.5	1053.3	1170.1	1269.1	1350.8	1380.9
-47.5°	260.4	358.7	463.6	572.4	696.0	819.0	941.0	1053.3	1160.1	1251.3	1337.9
-50°	207.0	296.2	389.0	487.8	592.1	706.0	819.0	930.5	1033.5	1130.1	1216.1
-52.5°	163.4	231.8	317.9	405.0	495.9	592.1	696.0	798.2	899.0	994.3	1080.7
-55°	118.5	179.2	246.1	325.1	405.0	487.8	572.4	666.3	757.0	847.1	933.4
-57.5°	87.5	129.0	184.5	246.1	317.9	389.0	463.6	535.7	617.1	697.7	775.4
-60°	64.5	90.1	129.0	179.2	231.8	296.2	358.7	423.6	487.6	549.2	619.9
-62.5°	44.0	64.5	87.5	118.5	163.4	207.0	260.4	315.7	368.8	424.3	477.7
-65°	36.8	43.3	59.4	79.9	99.8	137.3	175.7	212.7	259.0	305.2	349.1
-67.5°	29.5	35.3	41.0	49.4	67.3	84.7	101.5	134.4	166.3	196.9	228.8
-70°	24.7	27.7	32.3	37.2	42.0	49.8	64.8	79.2	93.0	110.7	136.4
-72.5°	20.3	22.9	25.5	28.0	32.0	36.1	40.0	43.8	52.3	63.8	74.8
-75°	16.2	18.2	20.4	22.5	24.6	26.6	28.8	32.0	35.1	38.1	40.9
-77.5°	12.4	14.0	15.6	17.1	18.7	20.4	22.0	23.6	25.1	26.5	27.9
-80°	9.2	9.9	11.1	12.3	13.5	14.7	15.8	16.9	17.9	19.0	20.1
-82.5°	7.3	7.8	8.3	8.7	9.2	9.6	10.1	10.9	11.7	12.4	13.1
-85°	5.3	5.7	6.0	6.3	6.6	6.9	7.2	7.4	7.7	7.9	8.2
-87.5°	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5
-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: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-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°	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6
85°	8.4	8.6	8.8	8.9	9.1	9.3	9.4	9.5	9.6	9.7	9.8
82.5°	13.8	14.4	15.0	15.5	16.0	16.4	16.9	17.2	17.5	17.8	18.0
80°	21.1	22.0	23.0	23.8	24.6	25.3	25.9	26.4	26.9	27.4	27.7
77.5°	29.7	31.8	33.8	35.6	37.2	38.7	40.1	41.3	42.4	43.3	44.0
75°	43.5	47.8	55.5	62.8	69.4	75.5	81.0	85.8	90.1	93.7	96.6
72.5°	85.1	94.9	106.3	123.7	139.7	154.3	167.5	179.2	189.4	198.1	205.2
70°	160.8	183.8	205.3	228.0	252.9	275.7	296.2	314.5	330.4	343.9	355.0
67.5°	266.2	301.4	334.4	365.0	395.2	423.6	449.2	472.0	491.8	508.7	522.6
65°	392.5	435.7	476.3	514.1	549.2	587.6	622.3	653.1	680.0	702.9	721.8
62.5°	528.5	582.4	636.6	687.1	733.8	777.2	817.1	852.6	883.6	910.0	931.7
60°	687.1	750.6	812.2	869.7	923.0	971.6	1012.4	1048.8	1080.7	1107.8	1130.1
57.5°	851.2	923.0	989.0	1047.4	1101.5	1151.1	1192.7	1227.6	1258.1	1284.2	1305.6
55°	1012.4	1084.8	1152.9	1210.6	1262.1	1309.3	1346.7	1359.1	1370.0	1379.3	1387.0
52.5°	1163.1	1232.2	1296.5	1348.2	1366.4	1383.1	1398.3	1415.7	1431.8	1445.5	1456.8
50°	1293.4	1351.5	1374.1	1395.3	1420.0	1444.4	1466.7	1504.8	1555.8	1599.5	1635.6
47.5°	1369.0	1394.7	1425.4	1456.2	1499.9	1577.3	1647.7	1769.0	2138.6	2455.3	2717.2
45°	1412.8	1449.9	1500.5	1597.3	1687.7	2170.7	2677.7	3133.1	3481.3	3772.7	4014.1
42.5°	1466.5	1561.9	1672.0	2201.8	2848.7	3407.9	3871.5	4288.6	4492.9	4559.0	4613.8
40°	1599.3	1847.3	2629.9	3342.3	3929.9	4455.0	4559.4	4653.5	4727.3	4770.4	4806.3
37.5°	2017.5	2890.3	3642.0	4311.4	4552.2	4674.5	4757.4	4818.6	4871.8	4886.4	4898.6
35°	2977.8	3793.5	4469.4	4618.3	4740.6	4819.5	4877.9	4898.5	4916.9	4864.3	4801.7
32.5°	3793.5	4485.7	4651.8	4771.6	4861.9	4894.8	4919.3	4822.9	4729.1	4610.6	4479.0
30°	4469.4	4651.8	4782.0	4875.1	4905.2	4861.1	4737.0	4564.3	4368.1	4227.2	4190.5
27.5°	4618.3	4771.6	4875.1	4908.7	4827.0	4681.3	4424.3	4224.9	4170.7	4123.1	4220.6
25°	4740.6	4861.9	4905.2	4827.0	4647.0	4353.0	4196.6	4131.6	4245.6	4372.7	4610.4
22.5°	4819.5	4894.8	4861.1	4681.3	4353.0	4187.1	4150.4	4322.1	4605.1	4976.6	6266.8
20°	4877.9	4919.3	4737.0	4424.3	4196.6	4150.4	4348.0	4750.5	5578.9	8731.6	12462.3
17.5°	4898.5	4822.9	4564.3	4224.9	4131.6	4322.1	4750.5	6181.5	10009.5	18308.3	27063.1
15°	4916.9	4729.1	4368.1	4170.7	4245.6	4605.1	5578.9	10009.5	20313.5	33132.1	47525.6
12.5°	4864.3	4610.6	4227.2	4123.1	4372.7	4976.6	8731.6	18308.3	33132.1	51021.4	81322.8
10°	4801.7	4479.0	4190.5	4220.6	4610.4	6266.8	12462.3	27063.1	47525.6	81322.8	122462.5
7.5°	4752.2	4374.5	4161.3	4299.1	4841.8	8254.1	18878.2	37443.9	66639.6	111143.5	171956.2
5°	4716.4	4298.8	4140.1	4356.4	5011.5	9719.3	23644.8	45420.6	84447.1	141243.9	222359.2
2.5°	4694.7	4252.9	4127.2	4391.3	5115.1	10618.1	26586.1	50383.1	95659.2	162946.1	260067.2
0°	4687.4	4237.5	4122.9	4403.0	5150.0	10921.2	27581.0	52069.2	99494.8	171180.9	273536.5
-2.5°	4694.7	4252.9	4127.2	4391.3	5115.1	10618.1	26586.1	50383.1	95659.2	162946.1	260067.2
-5°	4716.4	4298.8	4140.1	4356.4	5011.5	9719.3	23644.8	45420.6	84447.1	141243.9	222359.2
-7.5°	4752.2	4374.5	4161.3	4299.1	4841.8	8254.1	18878.2	37443.9	66639.6	111143.5	171956.2
-10°	4801.7	4479.0	4190.5	4220.6	4610.4	6266.8	12462.3	27063.1	47525.6	81322.8	122462.5
-12.5°	4864.3	4610.6	4227.2	4123.1	4372.7	4976.6	8731.6	18308.3	33132.1	51021.4	81322.8
-15°	4916.9	4729.1	4368.1	4170.7	4245.6	4605.1	5578.9	10009.5	20313.5	33132.1	47525.6
-17.5°	4898.5	4822.9	4564.3	4224.9	4131.6	4322.1	4750.5	6181.5	10009.5	18308.3	27063.1
-20°	4877.9	4919.3	4737.0	4424.3	4196.6	4150.4	4348.0	4750.5	5578.9	8731.6	12462.3



REPORT NUMBER: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4819.5	4894.8	4861.1	4681.3	4353.0	4187.1	4150.4	4322.1	4605.1	4976.6	6266.8
-25°	4740.6	4861.9	4905.2	4827.0	4647.0	4353.0	4196.6	4131.6	4245.6	4372.7	4610.4
-27.5°	4618.3	4771.6	4875.1	4908.7	4827.0	4681.3	4424.3	4224.9	4170.7	4123.1	4220.6
-30°	4469.4	4651.8	4782.0	4875.1	4905.2	4861.1	4737.0	4564.3	4368.1	4227.2	4190.5
-32.5°	3793.5	4485.7	4651.8	4771.6	4861.9	4894.8	4919.3	4822.9	4729.1	4610.6	4479.0
-35°	2977.8	3793.5	4469.4	4618.3	4740.6	4819.5	4877.9	4898.5	4916.9	4864.3	4801.7
-37.5°	2017.5	2890.3	3642.0	4311.4	4552.2	4674.5	4757.4	4818.6	4871.8	4886.4	4898.6
-40°	1599.3	1847.3	2629.9	3342.3	3929.9	4455.0	4559.4	4653.5	4727.3	4770.4	4806.3
-42.5°	1466.5	1561.9	1672.0	2201.8	2848.7	3407.9	3871.5	4288.6	4492.9	4559.0	4613.8
-45°	1412.8	1449.9	1500.5	1597.3	1687.7	2170.7	2677.7	3133.1	3481.3	3772.7	4014.1
-47.5°	1369.0	1394.7	1425.4	1456.2	1499.9	1577.3	1647.7	1769.0	2138.6	2455.3	2717.2
-50°	1293.4	1351.5	1374.1	1395.3	1420.0	1444.4	1466.7	1504.8	1555.8	1599.5	1635.6
-52.5°	1163.1	1232.2	1296.5	1348.2	1366.4	1383.1	1398.3	1415.7	1431.8	1445.5	1456.8
-55°	1012.4	1084.8	1152.9	1210.6	1262.1	1309.3	1346.7	1359.1	1370.0	1379.3	1387.0
-57.5°	851.2	923.0	989.0	1047.4	1101.5	1151.1	1192.7	1227.6	1258.1	1284.2	1305.6
-60°	687.1	750.6	812.2	869.7	923.0	971.6	1012.4	1048.8	1080.7	1107.8	1130.1
-62.5°	528.5	582.4	636.6	687.1	733.8	777.2	817.1	852.6	883.6	910.0	931.7
-65°	392.5	435.7	476.3	514.1	549.2	587.6	622.3	653.1	680.0	702.9	721.8
-67.5°	266.2	301.4	334.4	365.0	395.2	423.6	449.2	472.0	491.8	508.7	522.6
-70°	160.8	183.8	205.3	228.0	252.9	275.7	296.2	314.5	330.4	343.9	355.0
-72.5°	85.1	94.9	106.3	123.7	139.7	154.3	167.5	179.2	189.4	198.1	205.2
-75°	43.5	47.8	55.5	62.8	69.4	75.5	81.0	85.8	90.1	93.7	96.6
-77.5°	29.7	31.8	33.8	35.6	37.2	38.7	40.1	41.3	42.4	43.3	44.0
-80°	21.1	22.0	23.0	23.8	24.6	25.3	25.9	26.4	26.9	27.4	27.7
-82.5°	13.8	14.4	15.0	15.5	16.0	16.4	16.9	17.2	17.5	17.8	18.0
-85°	8.4	8.6	8.8	8.9	9.1	9.3	9.4	9.5	9.6	9.7	9.8
-87.5°	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6
-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: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.4
85°	9.8	9.9	9.9	9.9	9.9	9.9	9.8	9.8	9.7	9.6	9.5
82.5°	18.2	18.3	18.4	18.4	18.4	18.3	18.2	18.0	17.8	17.5	17.2
80°	28.0	28.1	28.3	28.3	28.3	28.1	28.0	27.7	27.4	26.9	26.4
77.5°	44.6	45.0	45.2	45.3	45.2	45.0	44.6	44.0	43.3	42.4	41.3
75°	98.9	100.6	101.6	101.9	101.6	100.6	98.9	96.6	93.7	90.1	85.8
72.5°	210.7	214.7	217.1	217.9	217.1	214.7	210.7	205.2	198.1	189.4	179.2
70°	363.7	369.9	373.7	374.9	373.7	369.9	363.7	355.0	343.9	330.4	314.5
67.5°	533.5	541.3	545.9	547.5	545.9	541.3	533.5	522.6	508.7	491.8	472.0
65°	736.5	747.0	753.4	755.5	753.4	747.0	736.5	721.8	702.9	680.0	653.1
62.5°	948.7	960.8	968.2	970.6	968.2	960.8	948.7	931.7	910.0	883.6	852.6
60°	1147.5	1160.1	1167.6	1170.1	1167.6	1160.1	1147.5	1130.1	1107.8	1080.7	1048.8
57.5°	1322.4	1334.4	1341.7	1344.1	1341.7	1334.4	1322.4	1305.6	1284.2	1258.1	1227.6
55°	1392.9	1397.2	1399.8	1400.7	1399.8	1397.2	1392.9	1387.0	1379.3	1370.0	1359.1
52.5°	1465.6	1472.0	1475.8	1477.1	1475.8	1472.0	1465.6	1456.8	1445.5	1431.8	1415.7
50°	1663.9	1684.3	1696.5	1700.6	1696.5	1684.3	1663.9	1635.6	1599.5	1555.8	1504.8
47.5°	2922.6	3070.3	3159.4	3189.1	3159.4	3070.3	2922.6	2717.2	2455.3	2138.6	1769.0
45°	4203.6	4340.0	4422.2	4449.7	4422.2	4340.0	4203.6	4014.1	3772.7	3481.3	3133.1
42.5°	4656.9	4687.9	4706.6	4712.9	4706.6	4687.9	4656.9	4613.8	4559.0	4492.9	4288.6
40°	4834.5	4854.9	4867.2	4871.3	4867.2	4854.9	4834.5	4806.3	4770.4	4727.3	4653.5
37.5°	4908.2	4915.2	4919.4	4920.8	4919.4	4915.2	4908.2	4898.6	4886.4	4871.8	4818.6
35°	4752.2	4716.4	4694.7	4687.4	4694.7	4716.4	4752.2	4801.7	4864.3	4916.9	4898.5
32.5°	4374.5	4298.8	4252.9	4237.5	4252.9	4298.8	4374.5	4479.0	4610.6	4729.1	4822.9
30°	4161.3	4140.1	4127.2	4122.9	4127.2	4140.1	4161.3	4190.5	4227.2	4368.1	4564.3
27.5°	4299.1	4356.4	4391.3	4403.0	4391.3	4356.4	4299.1	4220.6	4123.1	4170.7	4224.9
25°	4841.8	5011.5	5115.1	5150.0	5115.1	5011.5	4841.8	4610.4	4372.7	4245.6	4131.6
22.5°	8254.1	9719.3	10618.1	10921.2	10618.1	9719.3	8254.1	6266.8	4976.6	4605.1	4322.1
20°	18878.2	23644.8	26586.1	27581.0	26586.1	23644.8	18878.2	12462.3	8731.6	5578.9	4750.5
17.5°	37443.9	45420.6	50383.1	52069.2	50383.1	45420.6	37443.9	27063.1	18308.3	10009.5	6181.5
15°	66639.6	84447.1	95659.2	99494.8	95659.2	84447.1	66639.6	47525.6	33132.1	20313.5	10009.5
12.5°	111143.5	141243.9	162946.1	171180.9	162946.1	141243.9	111143.5	81322.8	51021.4	33132.1	18308.3
10°	171956.2	222359.2	260067.2	273536.5	260067.2	222359.2	171956.2	122462.5	81322.8	47525.6	27063.1
7.5°	247391.2	315134.8	362735.3	378941.9	362735.3	315134.8	247391.2	171956.2	111143.5	66639.6	37443.9
5°	315134.8	396353.3	450677.2	470773.1	450677.2	396353.3	315134.8	222359.2	141243.9	84447.1	45420.6
2.5°	362735.3	450677.2	515136.8	545701.3	515136.8	450677.2	362735.3	260067.2	162946.1	95659.2	50383.1
0°	378941.9	470773.1	545701.3	590829.9	545701.3	470773.1	378941.9	273536.5	171180.9	99494.8	52069.2
-2.5°	362735.3	450677.2	515136.8	545701.3	515136.8	450677.2	362735.3	260067.2	162946.1	95659.2	50383.1
-5°	315134.8	396353.3	450677.2	470773.1	450677.2	396353.3	315134.8	222359.2	141243.9	84447.1	45420.6
-7.5°	247391.2	315134.8	362735.3	378941.9	362735.3	315134.8	247391.2	171956.2	111143.5	66639.6	37443.9
-10°	171956.2	222359.2	260067.2	273536.5	260067.2	222359.2	171956.2	122462.5	81322.8	47525.6	27063.1
-12.5°	111143.5	141243.9	162946.1	171180.9	162946.1	141243.9	111143.5	81322.8	51021.4	33132.1	18308.3
-15°	66639.6	84447.1	95659.2	99494.8	95659.2	84447.1	66639.6	47525.6	33132.1	20313.5	10009.5
-17.5°	37443.9	45420.6	50383.1	52069.2	50383.1	45420.6	37443.9	27063.1	18308.3	10009.5	6181.5
-20°	18878.2	23644.8	26586.1	27581.0	26586.1	23644.8	18878.2	12462.3	8731.6	5578.9	4750.5



REPORT NUMBER: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	8254.1	9719.3	10618.1	10921.2	10618.1	9719.3	8254.1	6266.8	4976.6	4605.1	4322.1
-25°	4841.8	5011.5	5115.1	5150.0	5115.1	5011.5	4841.8	4610.4	4372.7	4245.6	4131.6
-27.5°	4299.1	4356.4	4391.3	4403.0	4391.3	4356.4	4299.1	4220.6	4123.1	4170.7	4224.9
-30°	4161.3	4140.1	4127.2	4122.9	4127.2	4140.1	4161.3	4190.5	4227.2	4368.1	4564.3
-32.5°	4374.5	4298.8	4252.9	4237.5	4252.9	4298.8	4374.5	4479.0	4610.6	4729.1	4822.9
-35°	4752.2	4716.4	4694.7	4687.4	4694.7	4716.4	4752.2	4801.7	4864.3	4916.9	4898.5
-37.5°	4908.2	4915.2	4919.4	4920.8	4919.4	4915.2	4908.2	4898.6	4886.4	4871.8	4818.6
-40°	4834.5	4854.9	4867.2	4871.3	4867.2	4854.9	4834.5	4806.3	4770.4	4727.3	4653.5
-42.5°	4656.9	4687.9	4706.6	4712.9	4706.6	4687.9	4656.9	4613.8	4559.0	4492.9	4288.6
-45°	4203.6	4340.0	4422.2	4449.7	4422.2	4340.0	4203.6	4014.1	3772.7	3481.3	3133.1
-47.5°	2922.6	3070.3	3159.4	3189.1	3159.4	3070.3	2922.6	2717.2	2455.3	2138.6	1769.0
-50°	1663.9	1684.3	1696.5	1700.6	1696.5	1684.3	1663.9	1635.6	1599.5	1555.8	1504.8
-52.5°	1465.6	1472.0	1475.8	1477.1	1475.8	1472.0	1465.6	1456.8	1445.5	1431.8	1415.7
-55°	1392.9	1397.2	1399.8	1400.7	1399.8	1397.2	1392.9	1387.0	1379.3	1370.0	1359.1
-57.5°	1322.4	1334.4	1341.7	1344.1	1341.7	1334.4	1322.4	1305.6	1284.2	1258.1	1227.6
-60°	1147.5	1160.1	1167.6	1170.1	1167.6	1160.1	1147.5	1130.1	1107.8	1080.7	1048.8
-62.5°	948.7	960.8	968.2	970.6	968.2	960.8	948.7	931.7	910.0	883.6	852.6
-65°	736.5	747.0	753.4	755.5	753.4	747.0	736.5	721.8	702.9	680.0	653.1
-67.5°	533.5	541.3	545.9	547.5	545.9	541.3	533.5	522.6	508.7	491.8	472.0
-70°	363.7	369.9	373.7	374.9	373.7	369.9	363.7	355.0	343.9	330.4	314.5
-72.5°	210.7	214.7	217.1	217.9	217.1	214.7	210.7	205.2	198.1	189.4	179.2
-75°	98.9	100.6	101.6	101.9	101.6	100.6	98.9	96.6	93.7	90.1	85.8
-77.5°	44.6	45.0	45.2	45.3	45.2	45.0	44.6	44.0	43.3	42.4	41.3
-80°	28.0	28.1	28.3	28.3	28.3	28.1	28.0	27.7	27.4	26.9	26.4
-82.5°	18.2	18.3	18.4	18.4	18.4	18.3	18.2	18.0	17.8	17.5	17.2
-85°	9.8	9.9	9.9	9.9	9.9	9.9	9.8	9.8	9.7	9.6	9.5
-87.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.4
-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: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-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°	5.4	5.3	5.2	5.1	4.9	4.8	4.7	4.5	4.4	4.2	4.0
85°	9.4	9.3	9.1	8.9	8.8	8.6	8.4	8.2	7.9	7.7	7.4
82.5°	16.9	16.4	16.0	15.5	15.0	14.4	13.8	13.1	12.4	11.7	10.9
80°	25.9	25.3	24.6	23.8	23.0	22.0	21.1	20.1	19.0	17.9	16.9
77.5°	40.1	38.7	37.2	35.6	33.8	31.8	29.7	27.9	26.5	25.1	23.6
75°	81.0	75.5	69.4	62.8	55.5	47.8	43.5	40.9	38.1	35.1	32.0
72.5°	167.5	154.3	139.7	123.7	106.3	94.9	85.1	74.8	63.8	52.3	43.8
70°	296.2	275.7	252.9	228.0	205.3	183.8	160.8	136.4	110.7	93.0	79.2
67.5°	449.2	423.6	395.2	365.0	334.4	301.4	266.2	228.8	196.9	166.3	134.4
65°	622.3	587.6	549.2	514.1	476.3	435.7	392.5	349.1	305.2	259.0	212.7
62.5°	817.1	777.2	733.8	687.1	636.6	582.4	528.5	477.7	424.3	368.8	315.7
60°	1012.4	971.6	923.0	869.7	812.2	750.6	687.1	619.9	549.2	487.6	423.6
57.5°	1192.7	1151.1	1101.5	1047.4	989.0	923.0	851.2	775.4	697.7	617.1	535.7
55°	1346.7	1309.3	1262.1	1210.6	1152.9	1084.8	1012.4	933.4	847.1	757.0	666.3
52.5°	1398.3	1383.1	1366.4	1348.2	1296.5	1232.2	1163.1	1080.7	994.3	899.0	798.2
50°	1466.7	1444.4	1420.0	1395.3	1374.1	1351.5	1293.4	1216.1	1130.1	1033.5	930.5
47.5°	1647.7	1577.3	1499.9	1456.2	1425.4	1394.7	1369.0	1337.9	1251.3	1160.1	1053.3
45°	2677.7	2170.7	1687.7	1597.3	1500.5	1449.9	1412.8	1380.9	1350.8	1269.1	1170.1
42.5°	3871.5	3407.9	2848.7	2201.8	1672.0	1561.9	1466.5	1425.1	1386.8	1353.8	1269.1
40°	4559.4	4455.0	3929.9	3342.3	2629.9	1847.3	1599.3	1474.9	1429.2	1386.8	1350.8
37.5°	4757.4	4674.5	4552.2	4311.4	3642.0	2890.3	2017.5	1611.8	1474.9	1425.1	1380.9
35°	4877.9	4819.5	4740.6	4618.3	4469.4	3793.5	2977.8	2017.5	1599.3	1466.5	1412.8
32.5°	4919.3	4894.8	4861.9	4771.6	4651.8	4485.7	3793.5	2890.3	1847.3	1561.9	1449.9
30°	4737.0	4861.1	4905.2	4875.1	4782.0	4651.8	4469.4	3642.0	2629.9	1672.0	1500.5
27.5°	4424.3	4681.3	4827.0	4908.7	4875.1	4771.6	4618.3	4311.4	3342.3	2201.8	1597.3
25°	4196.6	4353.0	4647.0	4827.0	4905.2	4861.9	4740.6	4552.2	3929.9	2848.7	1687.7
22.5°	4150.4	4187.1	4353.0	4681.3	4861.1	4894.8	4819.5	4674.5	4455.0	3407.9	2170.7
20°	4348.0	4150.4	4196.6	4424.3	4737.0	4919.3	4877.9	4757.4	4559.4	3871.5	2677.7
17.5°	4750.5	4322.1	4131.6	4224.9	4564.3	4822.9	4898.5	4818.6	4653.5	4288.6	3133.1
15°	5578.9	4605.1	4245.6	4170.7	4368.1	4729.1	4916.9	4871.8	4727.3	4492.9	3481.3
12.5°	8731.6	4976.6	4372.7	4123.1	4227.2	4610.6	4864.3	4886.4	4770.4	4559.0	3772.7
10°	12462.3	6266.8	4610.4	4220.6	4190.5	4479.0	4801.7	4898.6	4806.3	4613.8	4014.1
7.5°	18878.2	8254.1	4841.8	4299.1	4161.3	4374.5	4752.2	4908.2	4834.5	4656.9	4203.6
5°	23644.8	9719.3	5011.5	4356.4	4140.1	4298.8	4716.4	4915.2	4854.9	4687.9	4340.0
2.5°	26586.1	10618.1	5115.1	4391.3	4127.2	4252.9	4694.7	4919.4	4867.2	4706.6	4422.2
0°	27581.0	10921.2	5150.0	4403.0	4122.9	4237.5	4687.4	4920.8	4871.3	4712.9	4449.7
-2.5°	26586.1	10618.1	5115.1	4391.3	4127.2	4252.9	4694.7	4919.4	4867.2	4706.6	4422.2
-5°	23644.8	9719.3	5011.5	4356.4	4140.1	4298.8	4716.4	4915.2	4854.9	4687.9	4340.0
-7.5°	18878.2	8254.1	4841.8	4299.1	4161.3	4374.5	4752.2	4908.2	4834.5	4656.9	4203.6
-10°	12462.3	6266.8	4610.4	4220.6	4190.5	4479.0	4801.7	4898.6	4806.3	4613.8	4014.1
-12.5°	8731.6	4976.6	4372.7	4123.1	4227.2	4610.6	4864.3	4886.4	4770.4	4559.0	3772.7
-15°	5578.9	4605.1	4245.6	4170.7	4368.1	4729.1	4916.9	4871.8	4727.3	4492.9	3481.3
-17.5°	4750.5	4322.1	4131.6	4224.9	4564.3	4822.9	4898.5	4818.6	4653.5	4288.6	3133.1
-20°	4348.0	4150.4	4196.6	4424.3	4737.0	4919.3	4877.9	4757.4	4559.4	3871.5	2677.7



REPORT NUMBER: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4150.4	4187.1	4353.0	4681.3	4861.1	4894.8	4819.5	4674.5	4455.0	3407.9	2170.7
-25°	4196.6	4353.0	4647.0	4827.0	4905.2	4861.9	4740.6	4552.2	3929.9	2848.7	1687.7
-27.5°	4424.3	4681.3	4827.0	4908.7	4875.1	4771.6	4618.3	4311.4	3342.3	2201.8	1597.3
-30°	4737.0	4861.1	4905.2	4875.1	4782.0	4651.8	4469.4	3642.0	2629.9	1672.0	1500.5
-32.5°	4919.3	4894.8	4861.9	4771.6	4651.8	4485.7	3793.5	2890.3	1847.3	1561.9	1449.9
-35°	4877.9	4819.5	4740.6	4618.3	4469.4	3793.5	2977.8	2017.5	1599.3	1466.5	1412.8
-37.5°	4757.4	4674.5	4552.2	4311.4	3642.0	2890.3	2017.5	1611.8	1474.9	1425.1	1380.9
-40°	4559.4	4455.0	3929.9	3342.3	2629.9	1847.3	1599.3	1474.9	1429.2	1386.8	1350.8
-42.5°	3871.5	3407.9	2848.7	2201.8	1672.0	1561.9	1466.5	1425.1	1386.8	1353.8	1269.1
-45°	2677.7	2170.7	1687.7	1597.3	1500.5	1449.9	1412.8	1380.9	1350.8	1269.1	1170.1
-47.5°	1647.7	1577.3	1499.9	1456.2	1425.4	1394.7	1369.0	1337.9	1251.3	1160.1	1053.3
-50°	1466.7	1444.4	1420.0	1395.3	1374.1	1351.5	1293.4	1216.1	1130.1	1033.5	930.5
-52.5°	1398.3	1383.1	1366.4	1348.2	1296.5	1232.2	1163.1	1080.7	994.3	899.0	798.2
-55°	1346.7	1309.3	1262.1	1210.6	1152.9	1084.8	1012.4	933.4	847.1	757.0	666.3
-57.5°	1192.7	1151.1	1101.5	1047.4	989.0	923.0	851.2	775.4	697.7	617.1	535.7
-60°	1012.4	971.6	923.0	869.7	812.2	750.6	687.1	619.9	549.2	487.6	423.6
-62.5°	817.1	777.2	733.8	687.1	636.6	582.4	528.5	477.7	424.3	368.8	315.7
-65°	622.3	587.6	549.2	514.1	476.3	435.7	392.5	349.1	305.2	259.0	212.7
-67.5°	449.2	423.6	395.2	365.0	334.4	301.4	266.2	228.8	196.9	166.3	134.4
-70°	296.2	275.7	252.9	228.0	205.3	183.8	160.8	136.4	110.7	93.0	79.2
-72.5°	167.5	154.3	139.7	123.7	106.3	94.9	85.1	74.8	63.8	52.3	43.8
-75°	81.0	75.5	69.4	62.8	55.5	47.8	43.5	40.9	38.1	35.1	32.0
-77.5°	40.1	38.7	37.2	35.6	33.8	31.8	29.7	27.9	26.5	25.1	23.6
-80°	25.9	25.3	24.6	23.8	23.0	22.0	21.1	20.1	19.0	17.9	16.9
-82.5°	16.9	16.4	16.0	15.5	15.0	14.4	13.8	13.1	12.4	11.7	10.9
-85°	9.4	9.3	9.1	8.9	8.8	8.6	8.4	8.2	7.9	7.7	7.4
-87.5°	5.4	5.3	5.2	5.1	4.9	4.8	4.7	4.5	4.4	4.2	4.0
-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: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-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°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	1.9	1.7
85°	7.2	6.9	6.6	6.3	6.0	5.7	5.3	4.8	4.4	3.9	3.4
82.5°	10.1	9.6	9.2	8.7	8.3	7.8	7.3	6.8	6.3	5.8	5.1
80°	15.8	14.7	13.5	12.3	11.1	9.9	9.2	8.6	7.9	7.2	6.5
77.5°	22.0	20.4	18.7	17.1	15.6	14.0	12.4	10.7	9.5	8.6	7.8
75°	28.8	26.6	24.6	22.5	20.4	18.2	16.2	14.3	12.2	10.2	9.0
72.5°	40.0	36.1	32.0	28.0	25.5	22.9	20.3	17.7	15.4	13.0	10.5
70°	64.8	49.8	42.0	37.2	32.3	27.7	24.7	21.6	18.5	15.7	13.0
67.5°	101.5	84.7	67.3	49.4	41.0	35.3	29.5	25.6	22.0	18.5	15.4
65°	175.7	137.3	99.8	79.9	59.4	43.3	36.8	30.3	25.6	21.6	17.7
62.5°	260.4	207.0	163.4	118.5	87.5	64.5	44.0	36.8	29.5	24.7	20.3
60°	358.7	296.2	231.8	179.2	129.0	90.1	64.5	43.3	35.3	27.7	22.9
57.5°	463.6	389.0	317.9	246.1	184.5	129.0	87.5	59.4	41.0	32.3	25.5
55°	572.4	487.8	405.0	325.1	246.1	179.2	118.5	79.9	49.4	37.2	28.0
52.5°	696.0	592.1	495.9	405.0	317.9	231.8	163.4	99.8	67.3	42.0	32.0
50°	819.0	706.0	592.1	487.8	389.0	296.2	207.0	137.3	84.7	49.8	36.1
47.5°	941.0	819.0	696.0	572.4	463.6	358.7	260.4	175.7	101.5	64.8	40.0
45°	1053.3	930.5	798.2	666.3	535.7	423.6	315.7	212.7	134.4	79.2	43.8
42.5°	1160.1	1033.5	899.0	757.0	617.1	487.6	368.8	259.0	166.3	93.0	52.3
40°	1251.3	1130.1	994.3	847.1	697.7	549.2	424.3	305.2	196.9	110.7	63.8
37.5°	1337.9	1216.1	1080.7	933.4	775.4	619.9	477.7	349.1	228.8	136.4	74.8
35°	1369.0	1293.4	1163.1	1012.4	851.2	687.1	528.5	392.5	266.2	160.8	85.1
32.5°	1394.7	1351.5	1232.2	1084.8	923.0	750.6	582.4	435.7	301.4	183.8	94.9
30°	1425.4	1374.1	1296.5	1152.9	989.0	812.2	636.6	476.3	334.4	205.3	106.3
27.5°	1456.2	1395.3	1348.2	1210.6	1047.4	869.7	687.1	514.1	365.0	228.0	123.7
25°	1499.9	1420.0	1366.4	1262.1	1101.5	923.0	733.8	549.2	395.2	252.9	139.7
22.5°	1577.3	1444.4	1383.1	1309.3	1151.1	971.6	777.2	587.6	423.6	275.7	154.3
20°	1647.7	1466.7	1398.3	1346.7	1192.7	1012.4	817.1	622.3	449.2	296.2	167.5
17.5°	1769.0	1504.8	1415.7	1359.1	1227.6	1048.8	852.6	653.1	472.0	314.5	179.2
15°	2138.6	1555.8	1431.8	1370.0	1258.1	1080.7	883.6	680.0	491.8	330.4	189.4
12.5°	2455.3	1599.5	1445.5	1379.3	1284.2	1107.8	910.0	702.9	508.7	343.9	198.1
10°	2717.2	1635.6	1456.8	1387.0	1305.6	1130.1	931.7	721.8	522.6	355.0	205.2
7.5°	2922.6	1663.9	1465.6	1392.9	1322.4	1147.5	948.7	736.5	533.5	363.7	210.7
5°	3070.3	1684.3	1472.0	1397.2	1334.4	1160.1	960.8	747.0	541.3	369.9	214.7
2.5°	3159.4	1696.5	1475.8	1399.8	1341.7	1167.6	968.2	753.4	545.9	373.7	217.1
0°	3189.1	1700.6	1477.1	1400.7	1344.1	1170.1	970.6	755.5	547.5	374.9	217.9
-2.5°	3159.4	1696.5	1475.8	1399.8	1341.7	1167.6	968.2	753.4	545.9	373.7	217.1
-5°	3070.3	1684.3	1472.0	1397.2	1334.4	1160.1	960.8	747.0	541.3	369.9	214.7
-7.5°	2922.6	1663.9	1465.6	1392.9	1322.4	1147.5	948.7	736.5	533.5	363.7	210.7
-10°	2717.2	1635.6	1456.8	1387.0	1305.6	1130.1	931.7	721.8	522.6	355.0	205.2
-12.5°	2455.3	1599.5	1445.5	1379.3	1284.2	1107.8	910.0	702.9	508.7	343.9	198.1
-15°	2138.6	1555.8	1431.8	1370.0	1258.1	1080.7	883.6	680.0	491.8	330.4	189.4
-17.5°	1769.0	1504.8	1415.7	1359.1	1227.6	1048.8	852.6	653.1	472.0	314.5	179.2
-20°	1647.7	1466.7	1398.3	1346.7	1192.7	1012.4	817.1	622.3	449.2	296.2	167.5



REPORT NUMBER: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1577.3	1444.4	1383.1	1309.3	1151.1	971.6	777.2	587.6	423.6	275.7	154.3
-25°	1499.9	1420.0	1366.4	1262.1	1101.5	923.0	733.8	549.2	395.2	252.9	139.7
-27.5°	1456.2	1395.3	1348.2	1210.6	1047.4	869.7	687.1	514.1	365.0	228.0	123.7
-30°	1425.4	1374.1	1296.5	1152.9	989.0	812.2	636.6	476.3	334.4	205.3	106.3
-32.5°	1394.7	1351.5	1232.2	1084.8	923.0	750.6	582.4	435.7	301.4	183.8	94.9
-35°	1369.0	1293.4	1163.1	1012.4	851.2	687.1	528.5	392.5	266.2	160.8	85.1
-37.5°	1337.9	1216.1	1080.7	933.4	775.4	619.9	477.7	349.1	228.8	136.4	74.8
-40°	1251.3	1130.1	994.3	847.1	697.7	549.2	424.3	305.2	196.9	110.7	63.8
-42.5°	1160.1	1033.5	899.0	757.0	617.1	487.6	368.8	259.0	166.3	93.0	52.3
-45°	1053.3	930.5	798.2	666.3	535.7	423.6	315.7	212.7	134.4	79.2	43.8
-47.5°	941.0	819.0	696.0	572.4	463.6	358.7	260.4	175.7	101.5	64.8	40.0
-50°	819.0	706.0	592.1	487.8	389.0	296.2	207.0	137.3	84.7	49.8	36.1
-52.5°	696.0	592.1	495.9	405.0	317.9	231.8	163.4	99.8	67.3	42.0	32.0
-55°	572.4	487.8	405.0	325.1	246.1	179.2	118.5	79.9	49.4	37.2	28.0
-57.5°	463.6	389.0	317.9	246.1	184.5	129.0	87.5	59.4	41.0	32.3	25.5
-60°	358.7	296.2	231.8	179.2	129.0	90.1	64.5	43.3	35.3	27.7	22.9
-62.5°	260.4	207.0	163.4	118.5	87.5	64.5	44.0	36.8	29.5	24.7	20.3
-65°	175.7	137.3	99.8	79.9	59.4	43.3	36.8	30.3	25.6	21.6	17.7
-67.5°	101.5	84.7	67.3	49.4	41.0	35.3	29.5	25.6	22.0	18.5	15.4
-70°	64.8	49.8	42.0	37.2	32.3	27.7	24.7	21.6	18.5	15.7	13.0
-72.5°	40.0	36.1	32.0	28.0	25.5	22.9	20.3	17.7	15.4	13.0	10.5
-75°	28.8	26.6	24.6	22.5	20.4	18.2	16.2	14.3	12.2	10.2	9.0
-77.5°	22.0	20.4	18.7	17.1	15.6	14.0	12.4	10.7	9.5	8.6	7.8
-80°	15.8	14.7	13.5	12.3	11.1	9.9	9.2	8.6	7.9	7.2	6.5
-82.5°	10.1	9.6	9.2	8.7	8.3	7.8	7.3	6.8	6.3	5.8	5.1
-85°	7.2	6.9	6.6	6.3	6.0	5.7	5.3	4.8	4.4	3.9	3.4
-87.5°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	1.9	1.7
-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: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-HEG

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°	1.5	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
82.5°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
80°	5.8	4.9	3.9	3.0	2.0	1.0	0.0
77.5°	6.9	6.0	4.9	3.7	2.5	1.2	0.0
75°	8.0	6.9	5.8	4.4	2.9	1.5	0.0
72.5°	9.0	7.8	6.5	5.1	3.4	1.7	0.0
70°	10.2	8.6	7.2	5.8	3.9	1.9	0.0
67.5°	12.2	9.5	7.9	6.3	4.4	2.2	0.0
65°	14.3	10.7	8.6	6.8	4.8	2.4	0.0
62.5°	16.2	12.4	9.2	7.3	5.3	2.6	0.0
60°	18.2	14.0	9.9	7.8	5.7	2.8	0.0
57.5°	20.4	15.6	11.1	8.3	6.0	3.1	0.0
55°	22.5	17.1	12.3	8.7	6.3	3.3	0.0
52.5°	24.6	18.7	13.5	9.2	6.6	3.5	0.0
50°	26.6	20.4	14.7	9.6	6.9	3.7	0.0
47.5°	28.8	22.0	15.8	10.1	7.2	3.9	0.0
45°	32.0	23.6	16.9	10.9	7.4	4.0	0.0
42.5°	35.1	25.1	17.9	11.7	7.7	4.2	0.0
40°	38.1	26.5	19.0	12.4	7.9	4.4	0.0
37.5°	40.9	27.9	20.1	13.1	8.2	4.5	0.0
35°	43.5	29.7	21.1	13.8	8.4	4.7	0.0
32.5°	47.8	31.8	22.0	14.4	8.6	4.8	0.0
30°	55.5	33.8	23.0	15.0	8.8	4.9	0.0
27.5°	62.8	35.6	23.8	15.5	8.9	5.1	0.0
25°	69.4	37.2	24.6	16.0	9.1	5.2	0.0
22.5°	75.5	38.7	25.3	16.4	9.3	5.3	0.0
20°	81.0	40.1	25.9	16.9	9.4	5.4	0.0
17.5°	85.8	41.3	26.4	17.2	9.5	5.4	0.0
15°	90.1	42.4	26.9	17.5	9.6	5.5	0.0
12.5°	93.7	43.3	27.4	17.8	9.7	5.6	0.0
10°	96.6	44.0	27.7	18.0	9.8	5.6	0.0
7.5°	98.9	44.6	28.0	18.2	9.8	5.7	0.0
5°	100.6	45.0	28.1	18.3	9.9	5.7	0.0
2.5°	101.6	45.2	28.3	18.4	9.9	5.7	0.0
0°	101.9	45.3	28.3	18.4	9.9	5.7	0.0
-2.5°	101.6	45.2	28.3	18.4	9.9	5.7	0.0
-5°	100.6	45.0	28.1	18.3	9.9	5.7	0.0
-7.5°	98.9	44.6	28.0	18.2	9.8	5.7	0.0
-10°	96.6	44.0	27.7	18.0	9.8	5.6	0.0
-12.5°	93.7	43.3	27.4	17.8	9.7	5.6	0.0
-15°	90.1	42.4	26.9	17.5	9.6	5.5	0.0
-17.5°	85.8	41.3	26.4	17.2	9.5	5.4	0.0
-20°	81.0	40.1	25.9	16.9	9.4	5.4	0.0



REPORT NUMBER: P731240 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	75.5	38.7	25.3	16.4	9.3	5.3	0.0
-25°	69.4	37.2	24.6	16.0	9.1	5.2	0.0
-27.5°	62.8	35.6	23.8	15.5	8.9	5.1	0.0
-30°	55.5	33.8	23.0	15.0	8.8	4.9	0.0
-32.5°	47.8	31.8	22.0	14.4	8.6	4.8	0.0
-35°	43.5	29.7	21.1	13.8	8.4	4.7	0.0
-37.5°	40.9	27.9	20.1	13.1	8.2	4.5	0.0
-40°	38.1	26.5	19.0	12.4	7.9	4.4	0.0
-42.5°	35.1	25.1	17.9	11.7	7.7	4.2	0.0
-45°	32.0	23.6	16.9	10.9	7.4	4.0	0.0
-47.5°	28.8	22.0	15.8	10.1	7.2	3.9	0.0
-50°	26.6	20.4	14.7	9.6	6.9	3.7	0.0
-52.5°	24.6	18.7	13.5	9.2	6.6	3.5	0.0
-55°	22.5	17.1	12.3	8.7	6.3	3.3	0.0
-57.5°	20.4	15.6	11.1	8.3	6.0	3.1	0.0
-60°	18.2	14.0	9.9	7.8	5.7	2.8	0.0
-62.5°	16.2	12.4	9.2	7.3	5.3	2.6	0.0
-65°	14.3	10.7	8.6	6.8	4.8	2.4	0.0
-67.5°	12.2	9.5	7.9	6.3	4.4	2.2	0.0
-70°	10.2	8.6	7.2	5.8	3.9	1.9	0.0
-72.5°	9.0	7.8	6.5	5.1	3.4	1.7	0.0
-75°	8.0	6.9	5.8	4.4	2.9	1.5	0.0
-77.5°	6.9	6.0	4.9	3.7	2.5	1.2	0.0
-80°	5.8	4.9	3.9	3.0	2.0	1.0	0.0
-82.5°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
-85°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
-87.5°	1.5	1.2	1.0	0.7	0.5	0.2	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

