

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: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-530N-40-70-4S-VHE-A**

Issue Date: 2/3/2026

**Test Information**

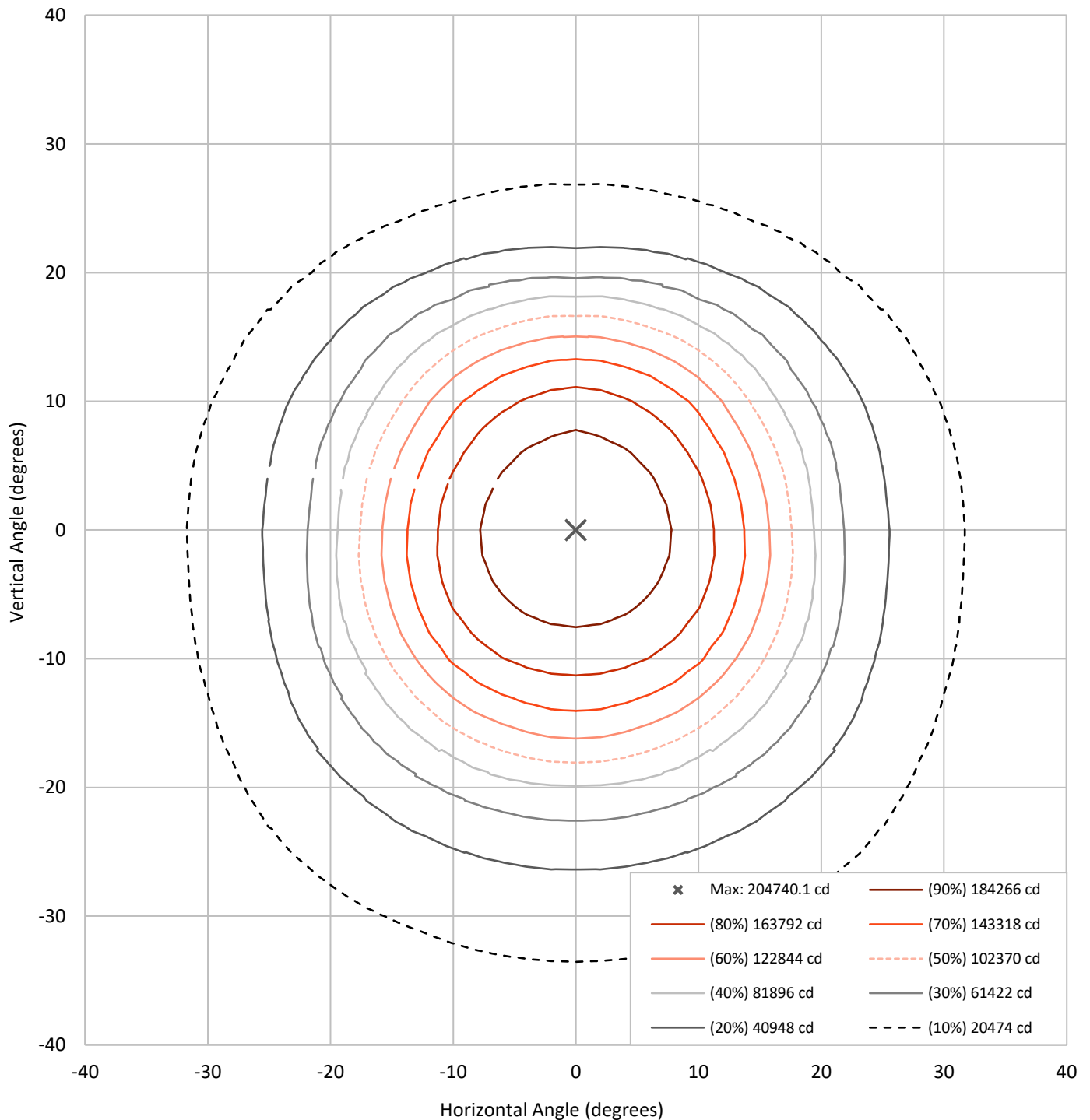
Test Method: LM-79-08  
Report Number: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-08-530N-40-70-4S-VHE-A  
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	84930.3 lumens	Max Intensity:	204740.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	153.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	45584.6 lumens	Field Lumens:	74179.8 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%
Input Watts (W):	554		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

### Iso-Candela Plot





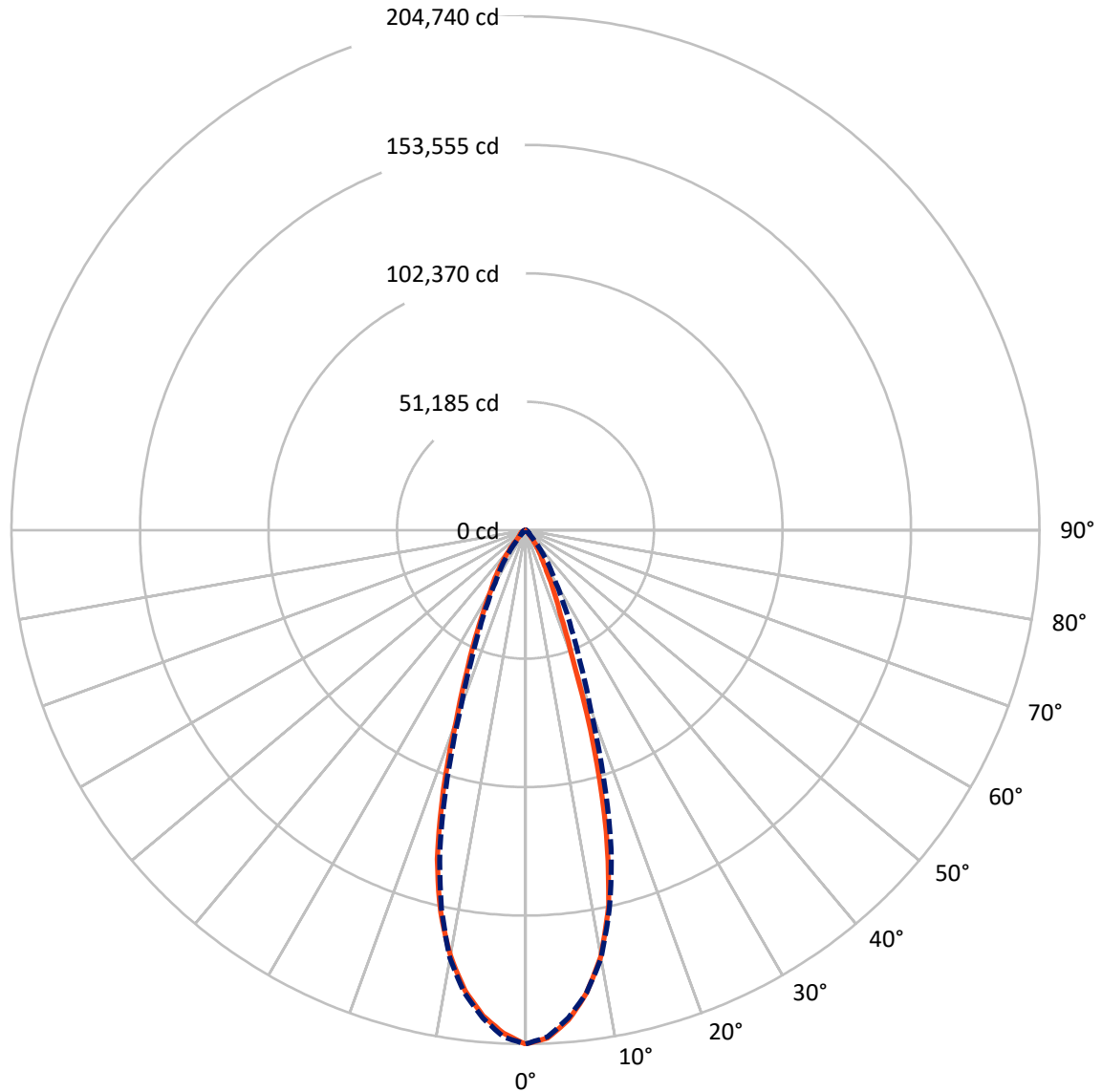
REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

### Lumen Table

90	0.3	0.9	1.6	2.2	2.5	2.2	1.6	0.9	0.3							
80	0.3	0.2	0.2	0.5	0.7	0.6	0.6	0.7	0.7	0.6	0.6	0.7	0.5	0.2	0.2	0.3
70	0.3	0.4	0.7	1.2	1.1	0.8	1.0	1.2	1.2	1.0	0.8	1.1	1.2	0.7	0.4	0.3
60	0.8	1.1	2.4	4.9	8.9	14.1	20.6	26.6	26.6	20.6	14.1	8.9	4.9	2.4	1.1	0.8
50	0.8	2.5	8.1	15.4	25.4	58.6	131.1	212.4	212.4	131.1	58.6	25.4	15.4	8.1	2.5	0.8
40	1.9	4.5	13.5	26.1	82.0	252.1	550.2	834.3	834.3	550.2	252.1	82.0	26.1	13.5	4.5	1.9
30	1.9	6.0	17.7	41.8	213.3	707.5	1890.4	3359.1	3359.1	1890.4	707.5	213.3	41.8	17.7	6.0	1.9
20	2.7	7.4	20.7	57.9	333.9	1161.3	3437.1	5503.8	5503.8	3437.1	1161.3	333.9	57.9	20.7	7.4	2.7
10	2.7	8.3	23.0	64.8	357.9	1219.6	3603.3	5547.3	5547.3	3603.3	1219.6	357.9	64.8	23.0	8.3	2.7
0	3.1	8.5	24.3	59.6	285.7	900.9	2268.2	3726.4	3726.4	2268.2	900.9	285.7	59.6	24.3	8.5	3.1
-10	3.1	7.9	24.2	51.1	157.2	500.4	982.4	1418.7	1418.7	982.4	500.4	157.2	51.1	24.2	7.9	3.1
-20	2.9	6.8	21.8	42.8	75.5	185.7	374.1	517.1	517.1	374.1	185.7	75.5	42.8	21.8	6.8	2.9
-30	2.9	5.3	16.4	34.2	54.0	74.9	102.2	130.9	130.9	102.2	74.9	54.0	34.2	16.4	5.3	2.9
-40	2.5	3.9	10.2	22.3	38.4	51.8	62.5	70.2	70.2	62.5	51.8	38.4	22.3	10.2	3.9	2.5
-50	2.5	3.0	6.0	11.3	19.3	27.3	34.7	39.7	39.7	34.7	27.3	19.3	11.3	6.0	3.0	2.5
-60	2.5	3.0	6.0	11.3	19.3	27.3	34.7	39.7	39.7	34.7	27.3	19.3	11.3	6.0	3.0	2.5
-70	1.8	10.8	24.3	39.2	48.2	39.2	24.3	10.8	1.8							
-80	1.8	10.8	24.3	39.2	48.2	39.2	24.3	10.8	1.8							
-90	1.8	10.8	24.3	39.2	48.2	39.2	24.3	10.8	1.8							

REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

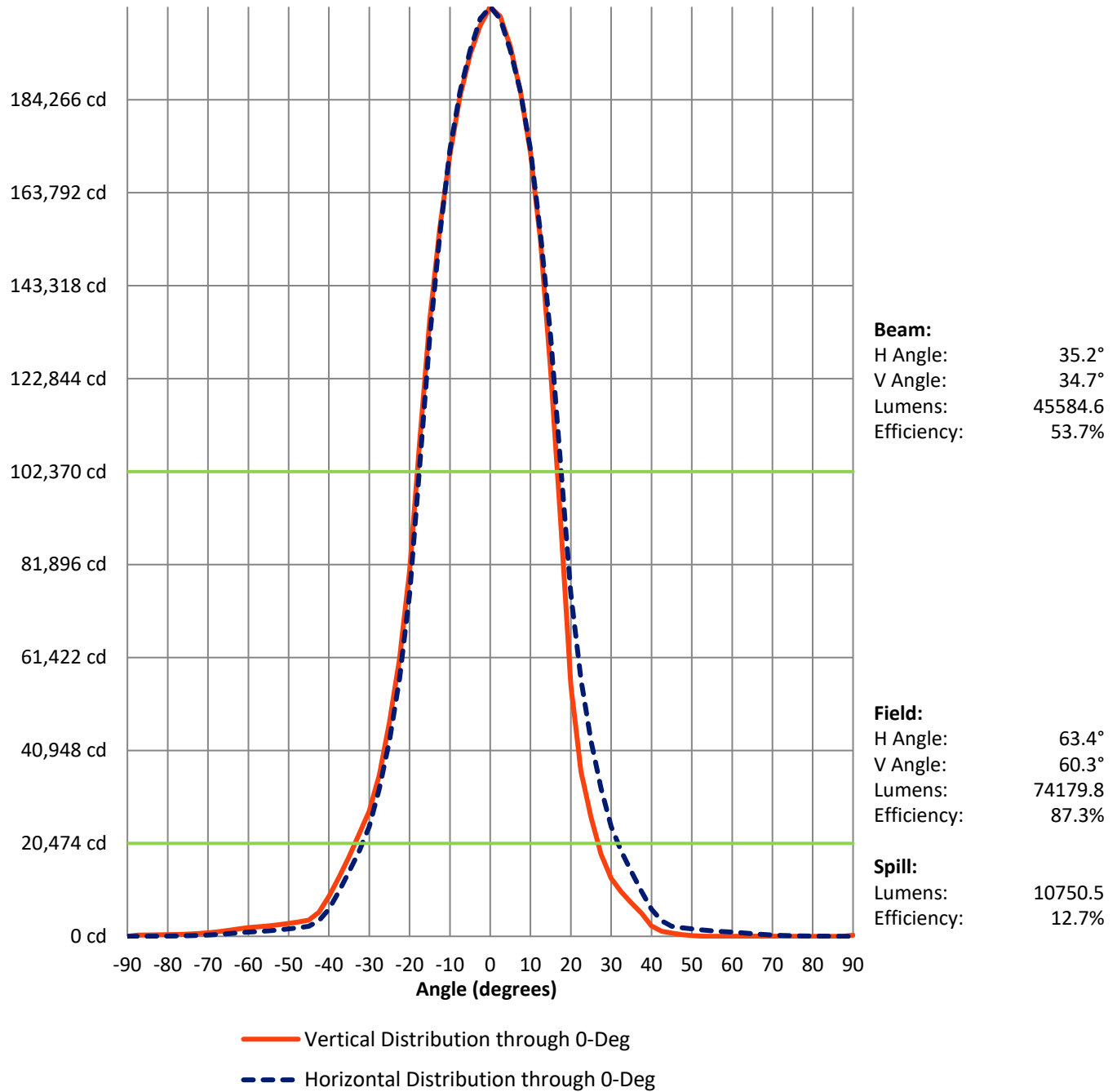
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

### Luminous Intensity Plot



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	9.1	17.2	25.3	41.5	57.7	72.4	87.1	98.8	110.4	118.0	125.6
87.5°	9.1	8.3	7.3	7.4	7.4	7.4	7.4	6.9	6.4	6.5	6.5
85°	9.1	8.5	7.5	7.6	7.8	7.8	7.6	7.2	6.8	6.9	6.9
82.5°	9.1	8.6	7.6	7.9	8.1	8.1	7.9	7.5	7.2	7.3	7.4
80°	9.1	8.8	7.8	8.1	8.5	8.4	8.2	8.0	7.9	7.9	7.8
77.5°	9.1	9.0	8.1	8.4	8.8	8.8	8.7	8.7	8.6	8.5	8.2
75°	9.1	9.2	8.3	8.6	9.2	9.3	9.3	9.3	9.3	8.9	8.3
72.5°	9.1	9.4	8.5	8.9	9.5	9.7	9.8	9.9	9.7	9.2	8.5
70°	9.1	9.6	8.8	9.2	9.9	10.1	10.4	10.4	10.2	9.6	9.3
67.5°	9.1	9.8	9.0	9.6	10.3	10.6	11.1	11.0	10.7	10.5	10.2
65°	9.1	10.0	9.3	10.0	10.7	11.3	11.9	11.7	12.0	11.4	11.5
62.5°	9.1	10.2	9.6	10.4	11.2	12.2	12.7	13.0	13.4	12.7	13.7
60°	9.1	10.4	9.9	10.8	11.6	13.1	13.7	14.7	15.0	16.0	16.4
57.5°	9.1	10.6	10.5	11.3	12.7	14.2	15.6	16.7	18.6	19.9	22.1
55°	9.1	10.8	11.1	11.7	13.8	15.2	17.7	18.9	23.1	25.2	29.7
52.5°	9.1	11.0	11.7	12.1	15.0	16.5	19.9	23.3	27.9	33.9	37.8
50°	9.1	11.2	12.4	12.6	16.2	18.8	22.2	28.3	34.1	43.3	49.0
47.5°	9.1	11.5	13.1	13.2	17.5	21.2	25.0	33.4	43.4	53.4	61.7
45°	9.1	11.7	13.8	14.2	18.9	23.7	29.6	38.7	53.3	65.8	75.2
42.5°	9.1	11.9	14.6	15.3	20.3	26.3	34.3	46.2	63.5	78.8	97.0
40°	9.1	12.1	15.4	16.8	22.0	29.0	39.2	55.4	74.8	92.5	122.2
37.5°	9.1	12.3	16.2	18.5	24.2	31.8	44.4	64.8	87.8	110.2	149.5
35°	9.1	12.6	17.0	20.3	26.3	35.6	49.6	74.3	101.4	135.5	182.6
32.5°	9.1	12.8	17.9	22.1	28.5	39.7	55.6	83.9	115.4	161.4	220.4
30°	9.1	13.0	18.8	24.0	30.7	43.8	63.3	93.7	129.9	187.8	256.4
27.5°	9.1	13.2	19.7	25.8	33.6	47.8	70.9	104.3	145.8	214.6	290.5
25°	9.1	13.4	20.7	27.7	36.6	51.7	78.2	114.5	164.2	242.5	322.9
22.5°	9.1	13.6	21.6	29.5	39.5	55.8	85.2	124.2	181.3	264.1	356.1
20°	9.1	13.8	22.5	31.3	42.4	60.4	92.0	133.3	197.3	284.3	383.0
17.5°	9.1	14.0	23.5	33.1	45.2	64.9	98.9	141.9	211.9	303.1	408.1
15°	9.1	14.2	24.4	34.9	47.9	69.2	105.9	150.4	225.3	320.3	431.7
12.5°	9.1	14.4	25.3	36.7	50.4	73.4	112.4	159.1	238.7	335.8	453.6
10°	9.1	14.6	26.2	38.4	52.9	77.4	118.4	167.3	252.0	355.9	477.7
7.5°	9.1	14.8	27.1	40.0	55.3	81.2	124.0	174.9	264.0	375.8	508.6
5°	9.1	14.9	27.9	41.6	57.6	84.8	129.1	181.8	274.7	394.2	537.7
2.5°	9.1	15.1	28.7	43.2	59.8	88.1	133.7	188.0	283.9	410.8	564.5
0°	9.1	15.2	29.4	44.6	61.8	91.2	137.8	193.5	291.7	425.4	588.5
-2.5°	9.1	15.7	30.5	46.5	64.7	94.9	142.5	200.1	302.0	437.4	600.5
-5°	9.1	16.3	31.6	48.3	67.4	98.2	146.7	205.9	310.5	446.9	609.3
-7.5°	9.1	16.8	32.6	50.0	70.0	101.3	150.3	210.8	317.1	453.9	614.8
-10°	9.1	17.3	33.5	51.5	72.4	104.1	153.2	214.8	321.8	458.3	617.2
-12.5°	9.1	17.8	34.4	53.0	74.6	106.5	155.6	217.8	324.2	459.9	619.9
-15°	9.1	18.2	35.2	54.4	76.6	108.6	157.2	219.7	323.8	457.9	619.8
-17.5°	9.1	18.7	36.0	55.6	78.4	110.4	158.2	221.0	320.6	452.8	614.6
-20°	9.1	19.1	36.7	56.7	80.0	111.8	159.0	221.6	315.5	444.7	604.0



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	9.1	19.4	37.3	57.6	81.3	112.8	159.8	221.3	308.5	433.3	588.3
-25°	9.1	19.8	37.8	58.4	82.4	114.2	159.8	220.0	299.5	418.7	571.8
-27.5°	9.1	20.1	38.2	59.1	83.3	115.4	159.2	217.7	288.7	406.2	557.8
-30°	9.1	20.4	38.6	59.6	84.0	116.1	157.8	214.5	282.2	394.6	539.4
-32.5°	9.1	20.7	38.9	60.0	85.1	116.5	155.6	211.7	278.4	380.0	516.3
-35°	9.1	20.9	39.2	60.2	86.0	116.5	154.8	208.5	273.1	362.3	488.5
-37.5°	9.1	21.1	39.3	60.3	86.6	116.5	154.3	204.3	266.2	341.6	462.0
-40°	9.1	21.2	39.4	60.2	87.1	117.0	153.4	198.9	257.8	328.3	436.1
-42.5°	9.1	21.3	39.4	60.1	87.3	117.2	151.7	192.5	249.6	317.3	407.1
-45°	9.1	21.4	39.3	60.3	87.5	117.1	149.4	187.0	240.9	304.3	377.6
-47.5°	9.1	21.5	39.1	60.2	87.4	116.7	146.7	183.7	230.8	289.3	360.4
-50°	9.1	21.5	38.9	60.2	87.1	116.0	145.2	179.8	219.2	275.9	340.9
-52.5°	9.1	21.4	38.5	60.1	86.5	114.9	143.6	175.3	211.6	260.8	318.3
-55°	9.1	21.4	38.1	59.9	85.6	113.5	141.7	170.6	205.2	244.1	296.7
-57.5°	9.1	21.3	37.7	59.5	84.5	111.8	139.5	167.8	198.1	233.5	273.5
-60°	9.1	21.1	37.1	58.9	83.2	109.8	136.8	164.4	190.9	224.0	252.8
-62.5°	9.1	21.0	36.6	58.1	82.1	107.4	133.8	160.3	185.8	213.2	239.7
-65°	9.1	20.8	35.9	57.3	80.7	104.8	130.3	155.7	180.1	204.4	226.1
-67.5°	9.1	20.5	35.2	56.2	79.1	102.1	126.5	150.6	173.9	196.1	215.3
-70°	9.1	20.3	34.3	55.0	77.4	99.3	122.4	145.1	167.4	187.4	205.5
-72.5°	9.1	20.0	33.4	53.8	75.4	96.3	118.2	139.3	160.5	178.7	195.4
-75°	9.1	19.6	32.4	52.4	73.2	93.0	113.7	133.4	153.2	169.6	185.0
-77.5°	9.1	19.3	31.4	50.8	71.0	89.5	108.8	127.1	145.6	160.3	174.2
-80°	9.1	18.9	30.3	49.2	68.6	86.2	103.7	120.6	137.7	150.8	163.4
-82.5°	9.1	18.5	29.1	47.4	66.1	83.0	99.7	114.4	129.4	141.1	152.5
-85°	9.1	18.1	27.9	45.6	63.5	79.6	95.7	109.4	123.2	132.9	142.5
-87.5°	9.1	17.7	26.6	43.6	60.6	76.1	91.5	104.1	116.9	125.5	134.1
-90°	9.1	8.1	7.1	7.1	7.1	7.1	7.1	6.6	6.1	6.1	6.1



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	131.2	136.7	141.8	146.9	153.0	159.0	165.1	171.2	177.8	184.3	190.9
87.5°	6.1	5.6	5.6	5.7	5.2	4.7	4.4	4.1	4.1	4.1	4.0
85°	6.5	6.1	6.1	6.1	5.7	5.4	5.0	4.5	4.6	4.6	4.4
82.5°	7.0	6.6	6.4	6.1	6.0	6.0	5.7	5.3	5.2	5.1	4.8
80°	7.5	7.2	6.7	6.4	6.3	6.1	6.0	5.9	5.7	5.2	5.2
77.5°	7.7	7.2	7.0	7.0	6.7	6.2	6.1	6.1	6.0	5.9	5.7
75°	7.8	7.3	7.2	7.2	6.8	6.3	6.1	6.3	6.4	6.2	6.0
72.5°	8.2	7.9	7.6	7.3	7.1	6.8	6.8	7.0	7.6	8.1	8.6
70°	9.0	8.6	8.3	8.1	7.7	7.7	8.6	10.3	12.0	12.6	14.3
67.5°	10.0	9.7	9.4	9.2	9.2	10.0	11.2	14.9	18.2	20.4	22.9
65°	11.0	10.9	10.9	11.0	11.1	14.2	17.6	21.3	27.0	30.2	30.3
62.5°	12.4	13.9	13.3	14.1	17.1	20.3	25.4	32.1	39.3	42.2	40.3
60°	17.6	18.3	18.7	20.9	23.8	27.3	34.4	42.5	50.8	55.8	48.3
57.5°	24.1	25.2	27.1	28.4	31.6	33.6	42.0	51.8	57.2	60.4	52.0
55°	32.4	34.0	36.8	37.3	40.0	41.0	47.9	54.6	59.2	60.2	51.0
52.5°	42.9	44.7	48.7	49.4	49.5	50.4	51.4	58.7	62.4	61.3	53.0
50°	54.2	60.5	62.7	65.0	62.0	63.2	59.9	68.5	75.7	73.8	76.3
47.5°	70.9	78.8	82.0	86.2	84.0	90.9	88.4	104.8	110.4	143.2	150.5
45°	91.0	105.0	109.2	118.9	128.7	136.7	163.1	165.2	234.3	263.1	317.4
42.5°	115.3	137.0	154.7	158.3	205.3	230.3	267.0	327.3	387.9	443.4	480.3
40°	151.1	173.7	211.5	255.6	305.5	359.5	408.3	478.4	537.0	580.7	606.7
37.5°	192.0	234.8	286.4	366.0	433.5	488.4	544.0	604.5	659.7	698.1	748.0
35°	236.8	299.2	394.9	477.8	550.2	601.9	656.1	720.3	772.5	834.3	896.0
32.5°	291.2	365.0	484.9	574.5	633.3	694.5	757.1	824.6	899.4	975.5	1054.4
30°	345.0	439.0	556.3	649.3	706.2	777.6	853.6	932.8	1030.8	1126.8	1233.4
27.5°	387.3	502.6	614.1	710.2	776.6	861.0	953.9	1057.1	1173.5	1291.0	1432.7
25°	425.1	549.8	672.4	774.2	858.6	952.2	1061.3	1185.2	1323.8	1489.0	1934.6
22.5°	461.9	595.8	736.7	842.9	937.7	1043.4	1175.0	1319.7	1482.8	1702.2	2490.4
20°	499.8	647.9	798.3	900.0	1009.9	1128.4	1282.5	1450.5	1652.6	2171.0	3333.6
17.5°	538.7	701.8	850.8	950.0	1065.8	1210.4	1389.5	1579.0	1825.3	2610.0	4389.7
15°	576.6	752.5	892.9	994.4	1122.0	1290.2	1490.4	1722.4	2131.3	3222.7	5447.7
12.5°	612.9	798.0	924.1	1032.4	1177.4	1365.5	1583.9	1844.3	2490.7	4049.4	6601.9
10°	647.0	838.4	951.3	1068.8	1231.6	1436.2	1667.7	1951.6	2804.6	4710.2	7515.6
7.5°	684.0	873.0	975.8	1103.4	1281.5	1500.9	1736.7	2034.2	3038.5	5216.8	8194.2
5°	717.5	901.1	1004.3	1143.8	1331.2	1559.2	1795.8	2103.3	3198.1	5537.8	8665.3
2.5°	746.8	923.5	1030.6	1182.2	1377.8	1610.4	1849.3	2172.6	3340.4	5809.3	9261.3
0°	<b>771.8</b>	<b>941.0</b>	<b>1054.4</b>	<b>1216.5</b>	<b>1418.0</b>	<b>1653.0</b>	<b>1893.1</b>	<b>2228.3</b>	<b>3435.6</b>	<b>5992.1</b>	<b>9952.4</b>
-2.5°	787.1	967.1	1093.9	1252.4	1451.2	1683.2	1932.7	2287.9	3532.1	6387.3	10215.7
-5°	798.0	988.2	1129.4	1283.8	1478.1	1705.2	1961.6	2330.1	3573.6	6496.0	10139.0
-7.5°	804.5	1003.5	1159.7	1311.3	1502.1	1730.8	2007.3	2386.5	3592.4	6228.1	9704.5
-10°	807.8	1016.3	1179.6	1334.1	1524.4	1754.4	2042.9	2423.0	3515.2	5866.6	9204.6
-12.5°	816.5	1027.3	1195.5	1351.0	1539.3	1771.3	2070.6	2450.4	3339.4	5369.9	8517.6
-15°	818.8	1032.9	1208.7	1362.5	1554.8	1796.2	2091.6	2455.1	3085.6	4728.1	7640.4
-17.5°	814.2	1033.2	1217.9	1371.6	1562.5	1805.7	2098.3	2441.6	2895.9	4261.7	6757.8
-20°	802.3	1021.1	1220.8	1372.4	1559.6	1809.6	2101.6	2435.8	2849.6	3784.9	5687.4



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	783.1	1002.0	1210.9	1371.0	1569.7	1811.2	2091.9	2399.8	2749.3	3209.8	4621.9
-25°	762.5	975.0	1185.3	1375.9	1571.7	1802.8	2051.0	2333.7	2656.5	3016.6	3861.6
-27.5°	740.2	943.3	1158.9	1369.8	1562.1	1771.2	2001.7	2266.7	2532.5	2823.3	3183.3
-30°	713.2	908.9	1123.6	1347.6	1539.4	1734.8	1947.4	2161.5	2399.8	2661.6	2966.5
-32.5°	680.8	868.5	1079.9	1301.1	1509.4	1692.5	1870.3	2062.6	2275.2	2506.1	2758.2
-35°	645.7	827.5	1028.6	1244.6	1472.8	1640.9	1795.4	1961.7	2150.1	2361.0	2595.2
-37.5°	610.1	780.2	968.4	1179.0	1400.9	1576.9	1716.1	1871.3	2037.1	2217.8	2435.6
-40°	569.7	725.7	905.7	1104.7	1301.4	1491.7	1644.6	1785.3	1931.0	2096.3	2274.2
-42.5°	526.1	672.7	837.0	1017.4	1196.0	1377.4	1568.9	1707.2	1837.6	1977.9	2133.8
-45°	489.8	614.2	762.7	923.1	1084.2	1259.8	1444.6	1629.5	1748.5	1870.0	2002.9
-47.5°	447.6	554.8	690.6	824.3	972.9	1138.5	1313.6	1485.0	1654.0	1772.2	1884.0
-50°	407.4	504.4	608.2	731.2	863.6	1016.6	1177.0	1333.7	1492.1	1652.2	1779.7
-52.5°	379.8	450.6	540.6	637.8	760.3	895.4	1036.0	1175.7	1324.5	1477.2	1624.2
-55°	349.9	410.6	474.7	557.3	658.2	778.5	895.5	1020.6	1148.5	1289.3	1432.5
-57.5°	321.5	371.8	422.1	484.9	569.7	661.7	764.2	867.0	982.9	1100.8	1223.4
-60°	293.4	334.6	377.3	427.4	485.8	563.4	637.7	727.2	823.4	920.4	1029.4
-62.5°	266.4	300.0	335.6	377.9	426.8	472.5	533.9	603.3	672.7	758.6	846.9
-65°	250.6	269.2	297.2	333.9	372.0	412.5	452.2	494.8	555.2	619.3	682.0
-67.5°	233.8	251.0	268.4	291.1	324.4	356.0	388.0	425.4	463.9	505.5	551.1
-70°	221.2	233.1	248.7	266.5	283.8	303.0	331.5	361.2	390.9	423.2	459.0
-72.5°	209.3	220.5	232.1	244.6	259.8	274.4	289.4	305.5	328.8	357.2	383.8
-75°	197.2	207.6	218.1	229.1	240.6	251.6	263.4	277.8	293.9	311.3	327.6
-77.5°	185.0	194.6	204.2	213.7	224.1	234.8	244.9	255.3	267.9	281.4	294.2
-80°	172.9	181.4	190.4	199.2	208.3	217.6	226.6	235.3	246.2	257.8	269.1
-82.5°	161.1	169.1	176.8	184.5	192.4	200.2	208.3	216.4	226.4	236.5	246.2
-85°	149.7	156.8	163.3	169.8	177.1	184.3	191.2	198.0	207.1	216.2	224.6
-87.5°	140.5	146.8	152.4	157.9	164.3	170.7	176.7	182.6	190.4	198.2	205.3
-90°	5.6	5.1	5.1	5.1	4.6	4.1	4.1	4.1	4.1	4.1	3.6



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	197.5	202.1	206.6	209.7	212.7	217.3	221.8	228.4	235.0	240.6	246.1
87.5°	3.9	3.5	3.0	2.9	2.9	2.9	2.9	2.5	2.0	2.0	2.0
85°	4.1	3.9	3.8	3.9	3.9	3.5	3.0	3.0	2.9	3.0	3.0
82.5°	4.6	4.4	4.1	4.1	4.1	4.0	3.9	3.5	3.0	3.0	3.0
80°	5.1	4.8	4.6	4.4	4.1	4.1	4.1	3.6	3.0	3.0	3.0
77.5°	5.3	5.2	5.1	4.7	4.2	4.1	4.1	3.6	3.1	3.0	3.0
75°	6.0	5.9	5.8	5.7	5.5	5.7	6.0	5.9	5.6	5.3	5.0
72.5°	9.1	9.1	8.9	9.5	10.0	10.5	10.8	11.1	11.5	12.2	13.1
70°	16.1	17.4	17.4	17.4	17.4	16.9	16.3	16.1	16.2	16.5	16.8
67.5°	24.4	25.4	25.7	26.0	23.7	22.2	21.6	21.7	22.6	24.4	27.1
65°	31.0	29.2	27.5	25.7	25.8	25.8	24.6	24.0	24.8	25.9	27.2
62.5°	36.9	29.4	24.5	22.1	22.5	23.3	21.0	19.3	18.8	18.4	18.5
60°	39.7	27.6	19.5	16.5	14.8	13.9	12.4	10.6	10.1	9.9	10.1
57.5°	40.1	26.3	15.5	12.2	9.4	7.2	6.1	5.3	5.3	5.2	5.0
55°	38.8	26.6	15.1	13.8	12.6	11.5	10.0	9.8	9.3	9.2	9.8
52.5°	40.2	37.3	30.5	29.6	36.0	36.3	31.2	38.4	43.3	47.2	48.9
50°	79.5	76.4	96.5	96.4	116.8	134.2	129.2	139.3	156.9	172.3	181.7
47.5°	185.7	200.3	230.5	257.6	288.2	326.8	343.8	356.0	371.4	392.0	405.9
45°	345.9	382.1	421.3	465.1	516.2	561.5	587.8	613.2	630.0	648.4	670.0
42.5°	513.6	556.8	614.9	667.3	722.7	775.5	817.2	853.9	925.4	1027.6	1108.7
40°	657.2	706.3	773.8	843.7	908.9	975.8	1159.7	1316.4	1511.7	1803.3	2061.8
37.5°	799.8	856.6	931.9	1017.5	1214.2	1413.4	1815.2	2249.1	2625.0	3046.6	3472.4
35°	955.2	1029.7	1130.5	1418.5	1782.7	2313.7	2889.7	3534.2	4081.2	4669.9	5532.4
32.5°	1138.6	1268.8	1594.4	2118.1	2771.1	3525.4	4239.9	5050.1	5733.3	6814.9	8132.1
30°	1375.1	1783.5	2408.5	3131.5	4012.8	4967.5	5863.4	7175.5	8708.5	10065.5	11186.2
27.5°	1945.5	2734.5	3607.1	4523.3	5626.8	6783.7	8662.2	10360.5	12009.8	13475.1	15177.4
25°	2797.2	4063.0	5554.2	6782.6	8282.0	10372.8	12497.0	14367.3	16874.1	19078.9	21552.2
22.5°	4001.9	5804.2	7725.1	9518.5	11821.3	14439.9	17297.7	20744.0	24226.3	28094.5	31535.7
20°	5177.8	7458.1	9890.7	12472.4	15421.6	18695.5	23367.1	28960.0	34326.1	40420.3	45559.1
17.5°	6743.7	9500.2	12377.1	15658.9	19450.6	24487.6	31382.8	39030.3	47328.3	56428.5	64843.8
15°	8335.9	11305.7	14648.5	18848.8	24211.9	31057.7	39854.3	50265.0	62400.2	75777.9	92041.7
12.5°	9641.0	12888.3	16797.2	22090.5	29104.9	38260.0	48917.9	61449.8	78086.7	98264.0	117159.4
10°	10755.9	14649.7	19589.1	25853.7	34104.4	44439.6	56547.0	72062.4	94473.2	117847.7	138583.7
7.5°	11904.4	16510.8	21741.9	28534.2	37915.3	49646.7	64555.6	84816.6	109474.4	133448.9	152464.7
5°	12987.6	17779.9	23100.3	30357.1	40501.9	53101.5	70017.3	94695.4	121528.3	145009.8	162875.1
2.5°	13836.2	18418.2	23815.6	31714.6	41900.3	54979.1	73441.1	100804.1	128951.9	152094.0	170413.5
0°	14276.4	18764.4	24212.6	32563.7	43060.1	56702.4	75404.0	103499.9	131971.7	154507.9	173180.2
-2.5°	14179.0	18597.3	23966.8	31908.5	42795.0	57014.1	77036.1	104904.8	132491.8	155331.3	172928.8
-5°	13974.1	18334.1	23629.5	31103.3	41845.9	56230.3	75263.9	100885.6	127528.4	150956.6	168064.2
-7.5°	13592.2	17893.4	22956.6	29925.6	40272.8	53894.3	71070.3	93334.6	118893.9	142367.2	158928.9
-10°	13030.5	17212.5	21991.0	28329.1	37621.8	50132.9	64735.5	82122.4	106032.0	127978.3	146380.4
-12.5°	12232.1	16249.3	20651.3	26097.8	34419.9	45445.6	58034.4	72480.7	89569.2	110734.9	127984.0
-15°	11216.2	14994.2	19084.7	24223.6	31182.2	40216.2	50830.1	62037.1	75134.9	89745.1	106558.3
-17.5°	9969.4	13518.2	17327.4	21757.7	27385.4	34964.9	43361.0	52105.7	61559.9	72311.6	82189.5
-20°	8482.6	11728.7	15318.4	19439.2	24261.3	29736.1	35839.5	42908.9	50237.1	57910.9	64700.3



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6972.9	9934.1	13354.8	16958.0	21149.2	25328.2	29427.5	34683.9	40343.1	45898.5	50952.1
-25°	5455.9	8070.1	11250.6	14630.1	17994.1	21407.6	24736.0	28000.0	32072.3	35648.1	39357.4
-27.5°	4333.5	6289.1	8959.7	11909.0	14840.3	17688.6	20566.3	23292.7	25860.9	28020.5	30521.2
-30°	3408.1	4728.1	6791.2	9112.0	11676.8	14186.4	16666.2	18969.4	20991.7	22769.8	24506.4
-32.5°	3081.4	3620.4	4846.4	6610.0	8633.4	10835.1	12907.9	14886.1	16553.4	18205.8	19761.8
-35°	2850.4	3147.2	3547.9	4649.7	5967.4	7719.6	9344.3	10986.1	12386.3	14036.7	15312.7
-37.5°	2661.0	2889.7	3143.1	3402.9	4204.2	5081.5	6251.3	7482.0	8563.7	9948.1	11074.7
-40°	2477.8	2680.1	2878.2	3075.8	3288.9	3484.7	4181.0	4815.5	5549.3	6496.3	7306.6
-42.5°	2300.6	2478.8	2650.3	2810.9	2959.8	3088.3	3228.4	3362.8	3759.0	4241.7	4612.4
-45°	2141.6	2293.1	2436.6	2572.4	2685.8	2788.7	2896.7	3009.1	3156.4	3290.3	3400.9
-47.5°	2006.4	2126.1	2243.8	2354.4	2441.5	2529.3	2615.2	2712.2	2827.0	2939.4	3033.5
-50°	1884.1	1987.7	2077.0	2155.3	2227.8	2302.1	2370.5	2456.7	2549.0	2642.0	2719.8
-52.5°	1766.9	1859.1	1933.7	1993.4	2048.6	2109.1	2168.0	2236.7	2311.7	2389.9	2451.7
-55°	1570.0	1687.2	1795.5	1851.6	1894.9	1944.8	1994.7	2050.3	2113.6	2179.3	2228.3
-57.5°	1352.5	1468.1	1570.1	1642.9	1714.7	1787.9	1842.9	1886.4	1943.6	1999.7	2042.0
-60°	1133.9	1230.9	1321.0	1394.6	1469.4	1542.8	1604.5	1661.3	1732.1	1796.5	1848.8
-62.5°	930.5	1015.4	1085.0	1144.4	1208.3	1272.1	1330.8	1386.8	1451.1	1508.9	1557.9
-65°	745.6	816.8	868.3	915.0	965.8	1018.7	1065.2	1111.6	1163.3	1209.5	1249.7
-67.5°	602.9	650.1	682.2	712.0	752.3	793.3	829.9	866.8	906.3	941.3	971.8
-70°	493.6	523.0	542.8	565.6	594.3	620.6	644.6	671.6	700.7	727.5	751.8
-72.5°	409.2	429.4	444.2	462.4	480.6	497.3	512.5	531.9	553.0	573.8	593.4
-75°	342.8	355.9	370.0	383.2	395.6	407.8	419.0	434.6	450.9	466.4	481.3
-77.5°	307.6	317.3	325.3	332.5	339.4	347.2	354.9	368.1	382.4	394.4	405.7
-80°	280.3	287.9	294.5	300.0	305.1	311.5	318.0	328.7	340.0	350.1	359.9
-82.5°	255.8	262.3	268.4	273.5	278.4	283.9	289.3	298.8	308.5	317.1	325.5
-85°	232.9	238.6	244.0	248.5	253.0	258.1	263.1	271.3	279.6	287.2	294.8
-87.5°	212.3	217.4	222.4	225.8	229.2	234.0	238.9	246.2	253.5	260.3	267.1
-90°	3.0	3.0	3.0	2.5	2.0	2.0	2.0	2.0	2.0	1.5	1.0



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	249.2	252.2	252.7	253.2	252.7	252.2	249.2	246.1	240.6	235.0	228.4
87.5°	1.5	1.0	1.5	2.0	1.5	1.0	1.5	2.0	2.0	2.0	2.5
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.6
77.5°	2.6	2.0	2.5	3.0	2.5	2.0	2.6	3.0	3.0	3.1	3.6
75°	4.5	4.1	3.6	3.0	3.6	4.1	4.5	5.0	5.3	5.6	5.9
72.5°	13.6	13.9	14.6	15.2	14.6	13.9	13.6	13.1	12.2	11.5	11.1
70°	16.2	15.3	15.2	15.2	15.2	15.3	16.2	16.8	16.5	16.2	16.1
67.5°	29.0	30.7	31.3	31.4	31.3	30.7	29.0	27.1	24.4	22.6	21.7
65°	28.2	29.3	29.4	29.4	29.4	29.3	28.2	27.2	25.9	24.8	24.0
62.5°	18.9	19.4	19.8	20.3	19.8	19.4	18.9	18.5	18.4	18.8	19.3
60°	10.6	11.2	11.7	12.2	11.7	11.2	10.6	10.1	9.9	10.1	10.6
57.5°	5.0	5.2	5.6	6.1	5.6	5.2	5.0	5.0	5.2	5.3	5.3
55°	10.2	10.7	11.0	11.1	11.0	10.7	10.2	9.8	9.2	9.3	9.8
52.5°	48.0	45.7	43.9	42.5	43.9	45.7	48.0	48.9	47.2	43.3	38.4
50°	185.6	181.1	176.0	171.2	176.0	181.1	185.6	181.7	172.3	156.9	139.3
47.5°	414.1	410.5	402.9	393.0	402.9	410.5	414.1	405.9	392.0	371.4	356.0
45°	699.9	720.1	729.2	724.2	729.2	720.1	699.9	670.0	648.4	630.0	613.2
42.5°	1136.4	1154.3	1155.8	1129.3	1155.8	1154.3	1136.4	1108.7	1027.6	925.4	853.9
40°	2248.8	2404.6	2458.0	2297.2	2458.0	2404.6	2248.8	2061.8	1803.3	1511.7	1316.4
37.5°	3985.6	4597.8	5108.5	5128.2	5108.5	4597.8	3985.6	3472.4	3046.6	2625.0	2249.1
35°	6459.3	7089.2	7393.7	7380.8	7393.7	7089.2	6459.3	5532.4	4669.9	4081.2	3534.2
32.5°	9078.6	9555.8	9860.8	9787.3	9860.8	9555.8	9078.6	8132.1	6814.9	5733.3	5050.1
30°	11986.6	12429.3	12784.7	12779.4	12784.7	12429.3	11986.6	11186.2	10065.5	8708.5	7175.5
27.5°	16563.1	17475.5	18200.7	18077.7	18200.7	17475.5	16563.1	15177.4	13475.1	12009.8	10360.5
25°	23638.4	25307.3	26487.2	26244.4	26487.2	25307.3	23638.4	21552.2	19078.9	16874.1	14367.3
22.5°	34090.5	36231.4	37126.6	36416.7	37126.6	36231.4	34090.5	31535.7	28094.5	24226.3	20744.0
20°	50454.7	54424.0	56891.6	55420.1	56891.6	54424.0	50454.7	45559.1	40420.3	34326.1	28960.0
17.5°	75735.6	84346.5	91150.1	90962.6	91150.1	84346.5	75735.6	64843.8	56428.5	47328.3	39030.3
15°	106201.6	116002.5	123549.1	124421.7	123549.1	116002.5	106201.6	92041.7	75777.9	62400.2	50265.0
12.5°	133480.7	143448.2	150833.3	152958.3	150833.3	143448.2	133480.7	117159.4	98264.0	78086.7	61449.8
10°	152922.4	162869.3	170017.4	172538.0	170017.4	162869.3	152922.4	138583.7	117847.7	94473.2	72062.4
7.5°	167184.7	177976.2	183334.3	186073.0	183334.3	177976.2	167184.7	152464.7	133448.9	109474.4	84816.6
5°	177447.2	187476.6	192660.2	195978.8	192660.2	187476.6	177447.2	162875.1	145009.8	121528.3	94695.4
2.5°	183916.6	193385.2	199610.1	202586.8	199610.1	193385.2	183916.6	170413.5	152094.0	128951.9	100804.1
0°	186004.6	195094.6	202071.8	204740.1	202071.8	195094.6	186004.6	173180.2	154507.9	131971.7	103499.9
-2.5°	185033.4	193937.8	199502.6	200581.3	199502.6	193937.8	185033.4	172928.8	155331.3	132491.8	104904.8
-5°	179979.1	188186.1	193324.5	194168.8	193324.5	188186.1	179979.1	168064.2	150956.6	127528.4	100885.6
-7.5°	171265.6	179452.4	183699.7	184950.2	183699.7	179452.4	171265.6	158928.9	142367.2	118893.9	93334.6
-10°	158631.9	166541.2	171080.5	172157.2	171080.5	166541.2	158631.9	146380.4	127978.3	106032.0	82122.4
-12.5°	141392.9	149830.6	154911.0	156030.3	154911.0	149830.6	141392.9	127984.0	110734.9	89569.2	72480.7
-15°	119039.0	127718.3	134203.9	135772.9	134203.9	127718.3	119039.0	106558.3	89745.1	75134.9	62037.1
-17.5°	93271.7	101956.9	107784.9	108897.5	107784.9	101956.9	93271.7	82189.5	72311.6	61559.9	52105.7
-20°	71079.2	76665.0	79954.3	80527.1	79954.3	76665.0	71079.2	64700.3	57910.9	50237.1	42908.9



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	55082.0	58836.4	60838.9	61121.5	60838.9	58836.4	55082.0	50952.1	45898.5	40343.1	34683.9
-25°	42683.3	45411.1	46902.7	47151.0	46902.7	45411.1	42683.3	39357.4	35648.1	32072.3	28000.0
-27.5°	32773.4	34468.0	35855.8	35566.9	35855.8	34468.0	32773.4	30521.2	28020.5	25860.9	23292.7
-30°	25933.2	27020.0	27839.7	27625.0	27839.7	27020.0	25933.2	24506.4	22769.8	20991.7	18969.4
-32.5°	20989.4	21840.9	22417.2	22570.8	22417.2	21840.9	20989.4	19761.8	18205.8	16553.4	14886.1
-35°	16314.0	17009.8	17409.1	17564.1	17409.1	17009.8	16314.0	15312.7	14036.7	12386.3	10986.1
-37.5°	11910.9	12521.2	12902.2	13034.6	12902.2	12521.2	11910.9	11074.7	9948.1	8563.7	7482.0
-40°	7927.0	8397.2	8709.4	8830.2	8709.4	8397.2	7927.0	7306.6	6496.3	5549.3	4815.5
-42.5°	4901.2	5121.3	5260.7	5304.4	5260.7	5121.3	4901.2	4612.4	4241.7	3759.0	3362.8
-45°	3486.3	3547.1	3581.9	3588.6	3581.9	3547.1	3486.3	3400.9	3290.3	3156.4	3009.1
-47.5°	3106.9	3154.8	3179.3	3180.4	3179.3	3154.8	3106.9	3033.5	2939.4	2827.0	2712.2
-50°	2784.0	2828.3	2850.7	2852.2	2850.7	2828.3	2784.0	2719.8	2642.0	2549.0	2456.7
-52.5°	2502.3	2537.7	2554.1	2554.5	2554.1	2537.7	2502.3	2451.7	2389.9	2311.7	2236.7
-55°	2268.6	2296.1	2306.3	2304.3	2306.3	2296.1	2268.6	2228.3	2179.3	2113.6	2050.3
-57.5°	2077.3	2104.2	2112.7	2109.8	2112.7	2104.2	2077.3	2042.0	1999.7	1943.6	1886.4
-60°	1889.7	1918.5	1929.4	1928.5	1929.4	1918.5	1889.7	1848.8	1796.5	1732.1	1661.3
-62.5°	1593.0	1615.2	1627.0	1630.7	1627.0	1615.2	1593.0	1557.9	1508.9	1451.1	1386.8
-65°	1277.4	1295.1	1304.6	1307.6	1304.6	1295.1	1277.4	1249.7	1209.5	1163.3	1111.6
-67.5°	991.5	1004.2	1010.4	1011.9	1010.4	1004.2	991.5	971.8	941.3	906.3	866.8
-70°	766.8	777.2	782.1	784.0	782.1	777.2	766.8	751.8	727.5	700.7	671.6
-72.5°	604.8	613.1	616.4	617.8	616.4	613.1	604.8	593.4	573.8	553.0	531.9
-75°	488.4	493.3	495.3	496.3	495.3	493.3	488.4	481.3	466.4	450.9	434.6
-77.5°	411.8	417.1	419.0	420.3	419.0	417.1	411.8	405.7	394.4	382.4	368.1
-80°	364.3	368.1	369.6	370.7	369.6	368.1	364.3	359.9	350.1	340.0	328.7
-82.5°	330.8	335.8	336.2	336.3	336.2	335.8	330.8	325.5	317.1	308.5	298.8
-85°	298.8	302.6	303.3	303.9	303.3	302.6	298.8	294.8	287.2	279.6	271.3
-87.5°	270.8	274.4	274.5	274.5	274.5	274.4	270.8	267.1	260.3	253.5	246.2
-90°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	221.8	217.3	212.7	209.7	206.6	202.1	197.5	190.9	184.3	177.8	171.2
87.5°	2.9	2.9	2.9	2.9	3.0	3.5	3.9	4.0	4.1	4.1	4.1
85°	3.0	3.5	3.9	3.9	3.8	3.9	4.1	4.4	4.6	4.6	4.5
82.5°	3.9	4.0	4.1	4.1	4.1	4.4	4.6	4.8	5.1	5.2	5.3
80°	4.1	4.1	4.1	4.4	4.6	4.8	5.1	5.2	5.2	5.7	5.9
77.5°	4.1	4.1	4.2	4.7	5.1	5.2	5.3	5.7	5.9	6.0	6.1
75°	6.0	5.7	5.5	5.7	5.8	5.9	6.0	6.0	6.2	6.4	6.3
72.5°	10.8	10.5	10.0	9.5	8.9	9.1	9.1	8.6	8.1	7.6	7.0
70°	16.3	16.9	17.4	17.4	17.4	17.4	16.1	14.3	12.6	12.0	10.3
67.5°	21.6	22.2	23.7	26.0	25.7	25.4	24.4	22.9	20.4	18.2	14.9
65°	24.6	25.8	25.8	25.7	27.5	29.2	31.0	30.3	30.2	27.0	21.3
62.5°	21.0	23.3	22.5	22.1	24.5	29.4	36.9	40.3	42.2	39.3	32.1
60°	12.4	13.9	14.8	16.5	19.5	27.6	39.7	48.3	55.8	50.8	42.5
57.5°	6.1	7.2	9.4	12.2	15.5	26.3	40.1	52.0	60.4	57.2	51.8
55°	10.0	11.5	12.6	13.8	15.1	26.6	38.8	51.0	60.2	59.2	54.6
52.5°	31.2	36.3	36.0	29.6	30.5	37.3	40.2	53.0	61.3	62.4	58.7
50°	129.2	134.2	116.8	96.4	96.5	76.4	79.5	76.3	73.8	75.7	68.5
47.5°	343.8	326.8	288.2	257.6	230.5	200.3	185.7	150.5	143.2	110.4	104.8
45°	587.8	561.5	516.2	465.1	421.3	382.1	345.9	317.4	263.1	234.3	165.2
42.5°	817.2	775.5	722.7	667.3	614.9	556.8	513.6	480.3	443.4	387.9	327.3
40°	1159.7	975.8	908.9	843.7	773.8	706.3	657.2	606.7	580.7	537.0	478.4
37.5°	1815.2	1413.4	1214.2	1017.5	931.9	856.6	799.8	748.0	698.1	659.7	604.5
35°	2889.7	2313.7	1782.7	1418.5	1130.5	1029.7	955.2	896.0	834.3	772.5	720.3
32.5°	4239.9	3525.4	2771.1	2118.1	1594.4	1268.8	1138.6	1054.4	975.5	899.4	824.6
30°	5863.4	4967.5	4012.8	3131.5	2408.5	1783.5	1375.1	1233.4	1126.8	1030.8	932.8
27.5°	8662.2	6783.7	5626.8	4523.3	3607.1	2734.5	1945.5	1432.7	1291.0	1173.5	1057.1
25°	12497.0	10372.8	8282.0	6782.6	5554.2	4063.0	2797.2	1934.6	1489.0	1323.8	1185.2
22.5°	17297.7	14439.9	11821.3	9518.5	7725.1	5804.2	4001.9	2490.4	1702.2	1482.8	1319.7
20°	23367.1	18695.5	15421.6	12472.4	9890.7	7458.1	5177.8	3333.6	2171.0	1652.6	1450.5
17.5°	31382.8	24487.6	19450.6	15658.9	12377.1	9500.2	6743.7	4389.7	2610.0	1825.3	1579.0
15°	39854.3	31057.7	24211.9	18848.8	14648.5	11305.7	8335.9	5447.7	3222.7	2131.3	1722.4
12.5°	48917.9	38260.0	29104.9	22090.5	16797.2	12888.3	9641.0	6601.9	4049.4	2490.7	1844.3
10°	56547.0	44439.6	34104.4	25853.7	19589.1	14649.7	10755.9	7515.6	4710.2	2804.6	1951.6
7.5°	64555.6	49646.7	37915.3	28534.2	21741.9	16510.8	11904.4	8194.2	5216.8	3038.5	2034.2
5°	70017.3	53101.5	40501.9	30357.1	23100.3	17779.9	12987.6	8665.3	5537.8	3198.1	2103.3
2.5°	73441.1	54979.1	41900.3	31714.6	23815.6	18418.2	13836.2	9261.3	5809.3	3340.4	2172.6
0°	75404.0	56702.4	43060.1	32563.7	24212.6	18764.4	14276.4	9952.4	5992.1	3435.6	2228.3
-2.5°	77036.1	57014.1	42795.0	31908.5	23966.8	18597.3	14179.0	10215.7	6387.3	3532.1	2287.9
-5°	75263.9	56230.3	41845.9	31103.3	23629.5	18334.1	13974.1	10139.0	6496.0	3573.6	2330.1
-7.5°	71070.3	53894.3	40272.8	29925.6	22956.6	17893.4	13592.2	9704.5	6228.1	3592.4	2386.5
-10°	64735.5	50132.9	37621.8	28329.1	21991.0	17212.5	13030.5	9204.6	5866.6	3515.2	2423.0
-12.5°	58034.4	45445.6	34419.9	26097.8	20651.3	16249.3	12232.1	8517.6	5369.9	3339.4	2450.4
-15°	50830.1	40216.2	31182.2	24223.6	19084.7	14994.2	11216.2	7640.4	4728.1	3085.6	2455.1
-17.5°	43361.0	34964.9	27385.4	21757.7	17327.4	13518.2	9969.4	6757.8	4261.7	2895.9	2441.6
-20°	35839.5	29736.1	24261.3	19439.2	15318.4	11728.7	8482.6	5687.4	3784.9	2849.6	2435.8



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	29427.5	25328.2	21149.2	16958.0	13354.8	9934.1	6972.9	4621.9	3209.8	2749.3	2399.8
-25°	24736.0	21407.6	17994.1	14630.1	11250.6	8070.1	5455.9	3861.6	3016.6	2656.5	2333.7
-27.5°	20566.3	17688.6	14840.3	11909.0	8959.7	6289.1	4333.5	3183.3	2823.3	2532.5	2266.7
-30°	16666.2	14186.4	11676.8	9112.0	6791.2	4728.1	3408.1	2966.5	2661.6	2399.8	2161.5
-32.5°	12907.9	10835.1	8633.4	6610.0	4846.4	3620.4	3081.4	2758.2	2506.1	2275.2	2062.6
-35°	9344.3	7719.6	5967.4	4649.7	3547.9	3147.2	2850.4	2595.2	2361.0	2150.1	1961.7
-37.5°	6251.3	5081.5	4204.2	3402.9	3143.1	2889.7	2661.0	2435.6	2217.8	2037.1	1871.3
-40°	4181.0	3484.7	3288.9	3075.8	2878.2	2680.1	2477.8	2274.2	2096.3	1931.0	1785.3
-42.5°	3228.4	3088.3	2959.8	2810.9	2650.3	2478.8	2300.6	2133.8	1977.9	1837.6	1707.2
-45°	2896.7	2788.7	2685.8	2572.4	2436.6	2293.1	2141.6	2002.9	1870.0	1748.5	1629.5
-47.5°	2615.2	2529.3	2441.5	2354.4	2243.8	2126.1	2006.4	1884.0	1772.2	1654.0	1485.0
-50°	2370.5	2302.1	2227.8	2155.3	2077.0	1987.7	1884.1	1779.7	1652.2	1492.1	1333.7
-52.5°	2168.0	2109.1	2048.6	1993.4	1933.7	1859.1	1766.9	1624.2	1477.2	1324.5	1175.7
-55°	1994.7	1944.8	1894.9	1851.6	1795.5	1687.2	1570.0	1432.5	1289.3	1148.5	1020.6
-57.5°	1842.9	1787.9	1714.7	1642.9	1570.1	1468.1	1352.5	1223.4	1100.8	982.9	867.0
-60°	1604.5	1542.8	1469.4	1394.6	1321.0	1230.9	1133.9	1029.4	920.4	823.4	727.2
-62.5°	1330.8	1272.1	1208.3	1144.4	1085.0	1015.4	930.5	846.9	758.6	672.7	603.3
-65°	1065.2	1018.7	965.8	915.0	868.3	816.8	745.6	682.0	619.3	555.2	494.8
-67.5°	829.9	793.3	752.3	712.0	682.2	650.1	602.9	551.1	505.5	463.9	425.4
-70°	644.6	620.6	594.3	565.6	542.8	523.0	493.6	459.0	423.2	390.9	361.2
-72.5°	512.5	497.3	480.6	462.4	444.2	429.4	409.2	383.8	357.2	328.8	305.5
-75°	419.0	407.8	395.6	383.2	370.0	355.9	342.8	327.6	311.3	293.9	277.8
-77.5°	354.9	347.2	339.4	332.5	325.3	317.3	307.6	294.2	281.4	267.9	255.3
-80°	318.0	311.5	305.1	300.0	294.5	287.9	280.3	269.1	257.8	246.2	235.3
-82.5°	289.3	283.9	278.4	273.5	268.4	262.3	255.8	246.2	236.5	226.4	216.4
-85°	263.1	258.1	253.0	248.5	244.0	238.6	232.9	224.6	216.2	207.1	198.0
-87.5°	238.9	234.0	229.2	225.8	222.4	217.4	212.3	205.3	198.2	190.4	182.6
-90°	2.0	2.0	2.0	2.5	3.0	3.0	3.0	3.6	4.1	4.1	4.1



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	165.1	159.0	153.0	146.9	141.8	136.7	131.2	125.6	118.0	110.4	98.8
87.5°	4.4	4.7	5.2	5.7	5.6	5.6	6.1	6.5	6.5	6.4	6.9
85°	5.0	5.4	5.7	6.1	6.1	6.1	6.5	6.9	6.9	6.8	7.2
82.5°	5.7	6.0	6.0	6.1	6.4	6.6	7.0	7.4	7.3	7.2	7.5
80°	6.0	6.1	6.3	6.4	6.7	7.2	7.5	7.8	7.9	7.9	8.0
77.5°	6.1	6.2	6.7	7.0	7.0	7.2	7.7	8.2	8.5	8.6	8.7
75°	6.1	6.3	6.8	7.2	7.2	7.3	7.8	8.3	8.9	9.3	9.3
72.5°	6.8	6.8	7.1	7.3	7.6	7.9	8.2	8.5	9.2	9.7	9.9
70°	8.6	7.7	7.7	8.1	8.3	8.6	9.0	9.3	9.6	10.2	10.4
67.5°	11.2	10.0	9.2	9.2	9.4	9.7	10.0	10.2	10.5	10.7	11.0
65°	17.6	14.2	11.1	11.0	10.9	10.9	11.0	11.5	11.4	12.0	11.7
62.5°	25.4	20.3	17.1	14.1	13.3	13.9	12.4	13.7	12.7	13.4	13.0
60°	34.4	27.3	23.8	20.9	18.7	18.3	17.6	16.4	16.0	15.0	14.7
57.5°	42.0	33.6	31.6	28.4	27.1	25.2	24.1	22.1	19.9	18.6	16.7
55°	47.9	41.0	40.0	37.3	36.8	34.0	32.4	29.7	25.2	23.1	18.9
52.5°	51.4	50.4	49.5	49.4	48.7	44.7	42.9	37.8	33.9	27.9	23.3
50°	59.9	63.2	62.0	65.0	62.7	60.5	54.2	49.0	43.3	34.1	28.3
47.5°	88.4	90.9	84.0	86.2	82.0	78.8	70.9	61.7	53.4	43.4	33.4
45°	163.1	136.7	128.7	118.9	109.2	105.0	91.0	75.2	65.8	53.3	38.7
42.5°	267.0	230.3	205.3	158.3	154.7	137.0	115.3	97.0	78.8	63.5	46.2
40°	408.3	359.5	305.5	255.6	211.5	173.7	151.1	122.2	92.5	74.8	55.4
37.5°	544.0	488.4	433.5	366.0	286.4	234.8	192.0	149.5	110.2	87.8	64.8
35°	656.1	601.9	550.2	477.8	394.9	299.2	236.8	182.6	135.5	101.4	74.3
32.5°	757.1	694.5	633.3	574.5	484.9	365.0	291.2	220.4	161.4	115.4	83.9
30°	853.6	777.6	706.2	649.3	556.3	439.0	345.0	256.4	187.8	129.9	93.7
27.5°	953.9	861.0	776.6	710.2	614.1	502.6	387.3	290.5	214.6	145.8	104.3
25°	1061.3	952.2	858.6	774.2	672.4	549.8	425.1	322.9	242.5	164.2	114.5
22.5°	1175.0	1043.4	937.7	842.9	736.7	595.8	461.9	356.1	264.1	181.3	124.2
20°	1282.5	1128.4	1009.9	900.0	798.3	647.9	499.8	383.0	284.3	197.3	133.3
17.5°	1389.5	1210.4	1065.8	950.0	850.8	701.8	538.7	408.1	303.1	211.9	141.9
15°	1490.4	1290.2	1122.0	994.4	892.9	752.5	576.6	431.7	320.3	225.3	150.4
12.5°	1583.9	1365.5	1177.4	1032.4	924.1	798.0	612.9	453.6	335.8	238.7	159.1
10°	1667.7	1436.2	1231.6	1068.8	951.3	838.4	647.0	477.7	355.9	252.0	167.3
7.5°	1736.7	1500.9	1281.5	1103.4	975.8	873.0	684.0	508.6	375.8	264.0	174.9
5°	1795.8	1559.2	1331.2	1143.8	1004.3	901.1	717.5	537.7	394.2	274.7	181.8
2.5°	1849.3	1610.4	1377.8	1182.2	1030.6	923.5	746.8	564.5	410.8	283.9	188.0
0°	1893.1	1653.0	1418.0	1216.5	1054.4	941.0	771.8	588.5	425.4	291.7	193.5
-2.5°	1932.7	1683.2	1451.2	1252.4	1093.9	967.1	787.1	600.5	437.4	302.0	200.1
-5°	1961.6	1705.2	1478.1	1283.8	1129.4	988.2	798.0	609.3	446.9	310.5	205.9
-7.5°	2007.3	1730.8	1502.1	1311.3	1159.7	1003.5	804.5	614.8	453.9	317.1	210.8
-10°	2042.9	1754.4	1524.4	1334.1	1179.6	1016.3	807.8	617.2	458.3	321.8	214.8
-12.5°	2070.6	1771.3	1539.3	1351.0	1195.5	1027.3	816.5	619.9	459.9	324.2	217.8
-15°	2091.6	1796.2	1554.8	1362.5	1208.7	1032.9	818.8	619.8	457.9	323.8	219.7
-17.5°	2098.3	1805.7	1562.5	1371.6	1217.9	1033.2	814.2	614.6	452.8	320.6	221.0
-20°	2101.6	1809.6	1559.6	1372.4	1220.8	1021.1	802.3	604.0	444.7	315.5	221.6



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2091.9	1811.2	1569.7	1371.0	1210.9	1002.0	783.1	588.3	433.3	308.5	221.3
-25°	2051.0	1802.8	1571.7	1375.9	1185.3	975.0	762.5	571.8	418.7	299.5	220.0
-27.5°	2001.7	1771.2	1562.1	1369.8	1158.9	943.3	740.2	557.8	406.2	288.7	217.7
-30°	1947.4	1734.8	1539.4	1347.6	1123.6	908.9	713.2	539.4	394.6	282.2	214.5
-32.5°	1870.3	1692.5	1509.4	1301.1	1079.9	868.5	680.8	516.3	380.0	278.4	211.7
-35°	1795.4	1640.9	1472.8	1244.6	1028.6	827.5	645.7	488.5	362.3	273.1	208.5
-37.5°	1716.1	1576.9	1400.9	1179.0	968.4	780.2	610.1	462.0	341.6	266.2	204.3
-40°	1644.6	1491.7	1301.4	1104.7	905.7	725.7	569.7	436.1	328.3	257.8	198.9
-42.5°	1568.9	1377.4	1196.0	1017.4	837.0	672.7	526.1	407.1	317.3	249.6	192.5
-45°	1444.6	1259.8	1084.2	923.1	762.7	614.2	489.8	377.6	304.3	240.9	187.0
-47.5°	1313.6	1138.5	972.9	824.3	690.6	554.8	447.6	360.4	289.3	230.8	183.7
-50°	1177.0	1016.6	863.6	731.2	608.2	504.4	407.4	340.9	275.9	219.2	179.8
-52.5°	1036.0	895.4	760.3	637.8	540.6	450.6	379.8	318.3	260.8	211.6	175.3
-55°	895.5	778.5	658.2	557.3	474.7	410.6	349.9	296.7	244.1	205.2	170.6
-57.5°	764.2	661.7	569.7	484.9	422.1	371.8	321.5	273.5	233.5	198.1	167.8
-60°	637.7	563.4	485.8	427.4	377.3	334.6	293.4	252.8	224.0	190.9	164.4
-62.5°	533.9	472.5	426.8	377.9	335.6	300.0	266.4	239.7	213.2	185.8	160.3
-65°	452.2	412.5	372.0	333.9	297.2	269.2	250.6	226.1	204.4	180.1	155.7
-67.5°	388.0	356.0	324.4	291.1	268.4	251.0	233.8	215.3	196.1	173.9	150.6
-70°	331.5	303.0	283.8	266.5	248.7	233.1	221.2	205.5	187.4	167.4	145.1
-72.5°	289.4	274.4	259.8	244.6	232.1	220.5	209.3	195.4	178.7	160.5	139.3
-75°	263.4	251.6	240.6	229.1	218.1	207.6	197.2	185.0	169.6	153.2	133.4
-77.5°	244.9	234.8	224.1	213.7	204.2	194.6	185.0	174.2	160.3	145.6	127.1
-80°	226.6	217.6	208.3	199.2	190.4	181.4	172.9	163.4	150.8	137.7	120.6
-82.5°	208.3	200.2	192.4	184.5	176.8	169.1	161.1	152.5	141.1	129.4	114.4
-85°	191.2	184.3	177.1	169.8	163.3	156.8	149.7	142.5	132.9	123.2	109.4
-87.5°	176.7	170.7	164.3	157.9	152.4	146.8	140.5	134.1	125.5	116.9	104.1
-90°	4.1	4.1	4.6	5.1	5.1	5.1	5.6	6.1	6.1	6.1	6.6



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	87.1	72.4	57.7	41.5	25.3	17.2	9.1
87.5°	7.4	7.4	7.4	7.4	7.3	8.3	9.1
85°	7.6	7.8	7.8	7.6	7.5	8.5	9.1
82.5°	7.9	8.1	8.1	7.9	7.6	8.6	9.1
80°	8.2	8.4	8.5	8.1	7.8	8.8	9.1
77.5°	8.7	8.8	8.8	8.4	8.1	9.0	9.1
75°	9.3	9.3	9.2	8.6	8.3	9.2	9.1
72.5°	9.8	9.7	9.5	8.9	8.5	9.4	9.1
70°	10.4	10.1	9.9	9.2	8.8	9.6	9.1
67.5°	11.1	10.6	10.3	9.6	9.0	9.8	9.1
65°	11.9	11.3	10.7	10.0	9.3	10.0	9.1
62.5°	12.7	12.2	11.2	10.4	9.6	10.2	9.1
60°	13.7	13.1	11.6	10.8	9.9	10.4	9.1
57.5°	15.6	14.2	12.7	11.3	10.5	10.6	9.1
55°	17.7	15.2	13.8	11.7	11.1	10.8	9.1
52.5°	19.9	16.5	15.0	12.1	11.7	11.0	9.1
50°	22.2	18.8	16.2	12.6	12.4	11.2	9.1
47.5°	25.0	21.2	17.5	13.2	13.1	11.5	9.1
45°	29.6	23.7	18.9	14.2	13.8	11.7	9.1
42.5°	34.3	26.3	20.3	15.3	14.6	11.9	9.1
40°	39.2	29.0	22.0	16.8	15.4	12.1	9.1
37.5°	44.4	31.8	24.2	18.5	16.2	12.3	9.1
35°	49.6	35.6	26.3	20.3	17.0	12.6	9.1
32.5°	55.6	39.7	28.5	22.1	17.9	12.8	9.1
30°	63.3	43.8	30.7	24.0	18.8	13.0	9.1
27.5°	70.9	47.8	33.6	25.8	19.7	13.2	9.1
25°	78.2	51.7	36.6	27.7	20.7	13.4	9.1
22.5°	85.2	55.8	39.5	29.5	21.6	13.6	9.1
20°	92.0	60.4	42.4	31.3	22.5	13.8	9.1
17.5°	98.9	64.9	45.2	33.1	23.5	14.0	9.1
15°	105.9	69.2	47.9	34.9	24.4	14.2	9.1
12.5°	112.4	73.4	50.4	36.7	25.3	14.4	9.1
10°	118.4	77.4	52.9	38.4	26.2	14.6	9.1
7.5°	124.0	81.2	55.3	40.0	27.1	14.8	9.1
5°	129.1	84.8	57.6	41.6	27.9	14.9	9.1
2.5°	133.7	88.1	59.8	43.2	28.7	15.1	9.1
0°	137.8	91.2	61.8	44.6	29.4	15.2	9.1
-2.5°	142.5	94.9	64.7	46.5	30.5	15.7	9.1
-5°	146.7	98.2	67.4	48.3	31.6	16.3	9.1
-7.5°	150.3	101.3	70.0	50.0	32.6	16.8	9.1
-10°	153.2	104.1	72.4	51.5	33.5	17.3	9.1
-12.5°	155.6	106.5	74.6	53.0	34.4	17.8	9.1
-15°	157.2	108.6	76.6	54.4	35.2	18.2	9.1
-17.5°	158.2	110.4	78.4	55.6	36.0	18.7	9.1
-20°	159.0	111.8	80.0	56.7	36.7	19.1	9.1



REPORT NUMBER: P1306148 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-530N-40-70-4S-VHE-A

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	159.8	112.8	81.3	57.6	37.3	19.4	9.1
-25°	159.8	114.2	82.4	58.4	37.8	19.8	9.1
-27.5°	159.2	115.4	83.3	59.1	38.2	20.1	9.1
-30°	157.8	116.1	84.0	59.6	38.6	20.4	9.1
-32.5°	155.6	116.5	85.1	60.0	38.9	20.7	9.1
-35°	154.8	116.5	86.0	60.2	39.2	20.9	9.1
-37.5°	154.3	116.5	86.6	60.3	39.3	21.1	9.1
-40°	153.4	117.0	87.1	60.2	39.4	21.2	9.1
-42.5°	151.7	117.2	87.3	60.1	39.4	21.3	9.1
-45°	149.4	117.1	87.5	60.3	39.3	21.4	9.1
-47.5°	146.7	116.7	87.4	60.2	39.1	21.5	9.1
-50°	145.2	116.0	87.1	60.2	38.9	21.5	9.1
-52.5°	143.6	114.9	86.5	60.1	38.5	21.4	9.1
-55°	141.7	113.5	85.6	59.9	38.1	21.4	9.1
-57.5°	139.5	111.8	84.5	59.5	37.7	21.3	9.1
-60°	136.8	109.8	83.2	58.9	37.1	21.1	9.1
-62.5°	133.8	107.4	82.1	58.1	36.6	21.0	9.1
-65°	130.3	104.8	80.7	57.3	35.9	20.8	9.1
-67.5°	126.5	102.1	79.1	56.2	35.2	20.5	9.1
-70°	122.4	99.3	77.4	55.0	34.3	20.3	9.1
-72.5°	118.2	96.3	75.4	53.8	33.4	20.0	9.1
-75°	113.7	93.0	73.2	52.4	32.4	19.6	9.1
-77.5°	108.8	89.5	71.0	50.8	31.4	19.3	9.1
-80°	103.7	86.2	68.6	49.2	30.3	18.9	9.1
-82.5°	99.7	83.0	66.1	47.4	29.1	18.5	9.1
-85°	95.7	79.6	63.5	45.6	27.9	18.1	9.1
-87.5°	91.5	76.1	60.6	43.6	26.6	17.7	9.1
-90°	7.1	7.1	7.1	7.1	7.1	8.1	9.1

(END OF REPORT)