

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: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0680R-40-70-1S-VHE**

Issue Date: 10/30/2020

Test Information

Test Method: LM-79-08
Report Number: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-08-0680R-40-70-1S-VHE
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

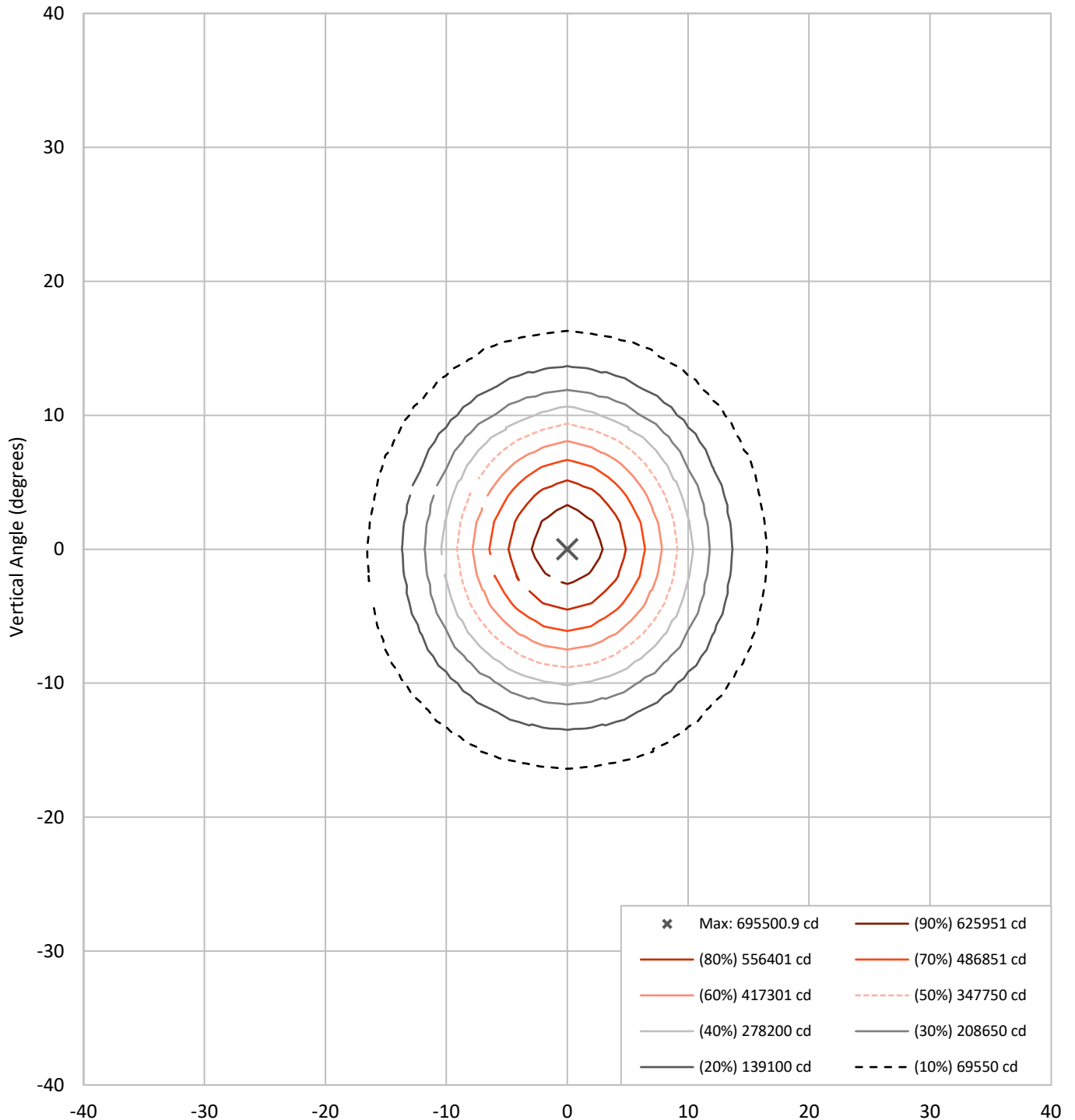
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	83741.2 lumens	Max Intensity:	695500.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	116.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.2°H x 18.2°V	Field Angle (10%):	33°H x 32.6°V
Beam Lumens:	38584 lumens	Field Lumens:	68268.8 lumens
Beam Efficiency:	46.1%	Field Efficiency:	81.5%

Input Watts (W): 720
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-08-0680R-40-70-1S-VHE

Iso-Candela Plot





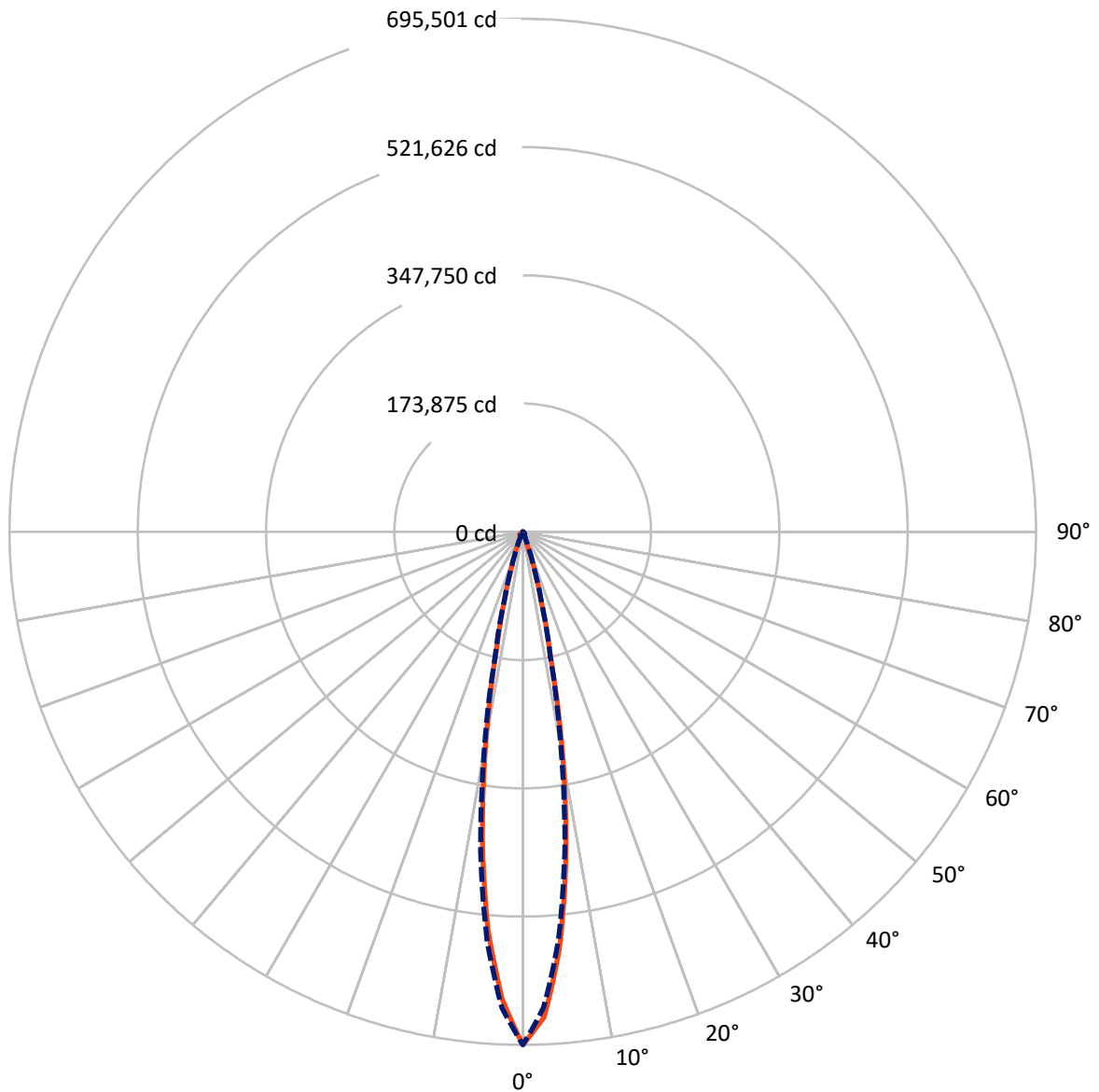
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Lumen Table

90	0.2		0.6		1.2		1.7		2.0		1.7		1.2		0.6		0.2	
80	0.2		0.6		1.2		1.7		2.0		1.7		1.2		0.6		0.2	
70	0.3	0.2	0.3	0.7	0.9	0.8	0.7	0.7	0.7	0.7	0.8	0.9	0.7	0.3	0.2	0.3		
60		0.4	0.8	1.1	1.0	0.9	1.0	1.1	1.1	1.0	0.9	1.0	1.1	0.8	0.4			
50	0.7	1.0	2.7	5.3	8.4	14.7	23.2	26.2	26.2	23.2	14.7	8.4	5.3	2.7	1.0	0.7		
40		2.6	8.2	14.6	31.8	54.5	60.1	62.2	62.2	60.1	54.5	31.8	14.6	8.2	2.6			
30	1.6	4.4	13.0	28.1	71.0	72.6	89.1	142.6	142.6	89.1	72.6	71.0	28.1	13.0	4.4	1.6		
20		6.0	16.3	51.6	91.4	109.4	668.1	2735.9	2735.9	668.1	109.4	91.4	51.6	16.3	6.0			
10	2.3	7.1	18.7	66.6	98.2	202.4	2736.0	12628.2	12628.2	2736.0	202.4	98.2	66.6	18.7	7.1	2.3		
0		7.7	20.5	69.7	108.1	219.0	2809.2	12327.7	12327.7	2809.2	219.0	108.1	69.7	20.5	7.7			
-10	2.4	7.8	21.5	65.7	120.4	149.0	761.8	2777.3	2777.3	761.8	149.0	120.4	65.7	21.5	7.8	2.4		
-20		7.1	21.3	47.6	121.8	144.9	157.0	242.5	242.5	157.0	144.9	121.8	47.6	21.3	7.1			
-30	2.0	5.8	19.0	36.0	83.0	150.0	164.6	161.9	161.9	164.6	150.0	83.0	36.0	19.0	5.8	2.0		
-40		4.3	14.4	30.5	46.5	72.8	116.5	148.5	148.5	116.5	72.8	46.5	30.5	14.4	4.3			
-50	1.6	2.7	8.8	20.1	34.3	45.1	52.6	57.2	57.2	52.6	45.1	34.3	20.1	8.8	2.7	1.6		
-60		1.9	4.4	9.6	16.9	24.0	30.3	34.1	34.1	30.3	24.0	16.9	9.6	4.4	1.9			
-70	1.2	7.0		16.8		27.5		33.1		27.5		16.8		7.0		1.2		
-80		7.0		16.8		27.5		33.1		27.5		16.8		7.0				
-90	1.2		7.0		16.8		27.5		33.1		27.5		16.8		7.0		1.2	

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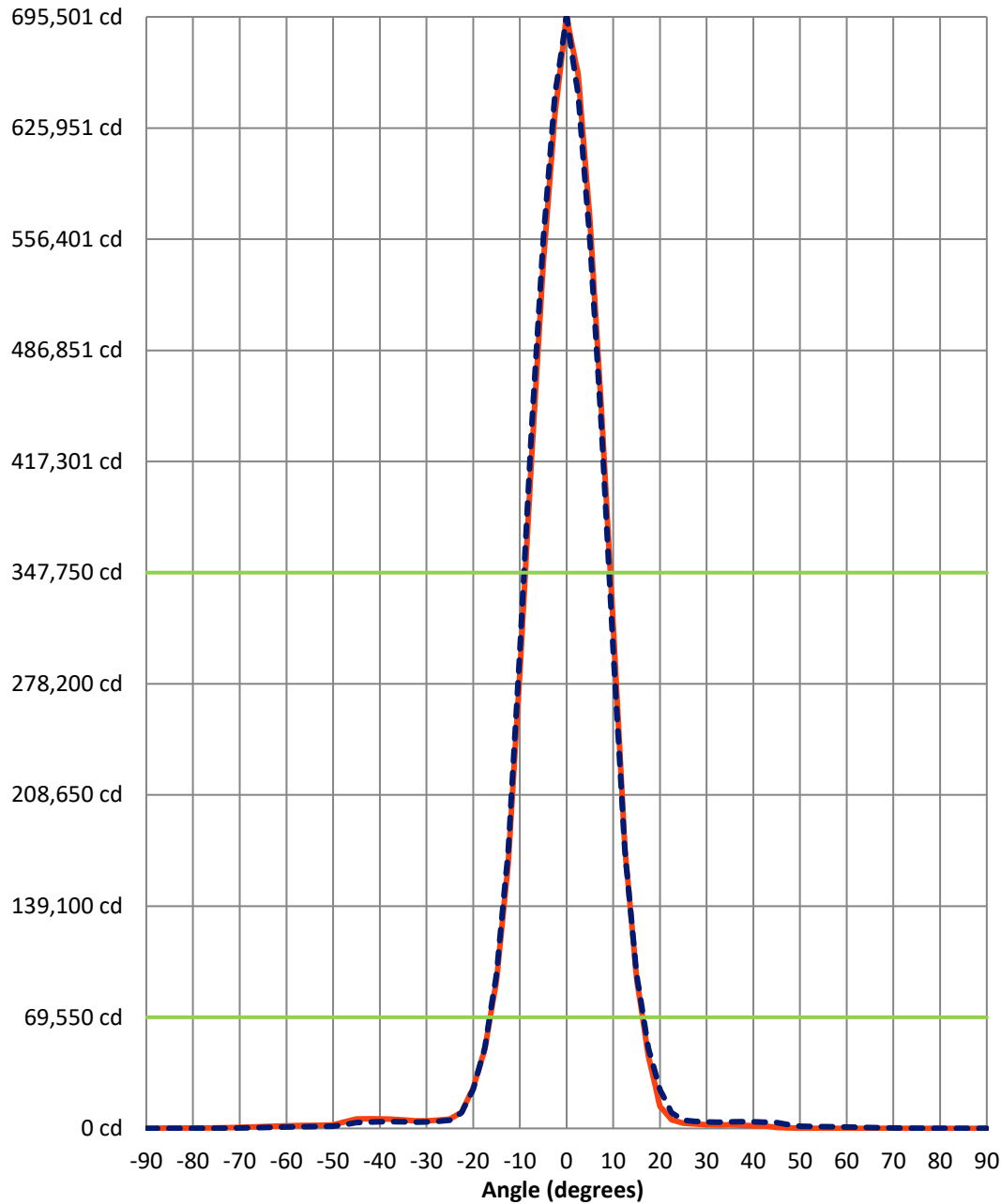
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 18.2°
V Angle: 18.2°
Lumens: 38584
Efficiency: 46.1%

Field:
H Angle: 33°
V Angle: 32.6°
Lumens: 68268.8
Efficiency: 81.5%

Spill:
Lumens: 15472.4
Efficiency: 18.5%

— 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°	9.3	15.0	20.8	29.6	38.4	45.7	53.0	59.8	66.5	71.7	76.9
87.5°	9.3	7.4	5.4	5.1	4.7	4.7	4.7	4.6	4.5	4.1	3.6
85°	9.3	7.6	5.7	5.5	5.2	5.3	5.2	5.1	4.8	4.4	4.1
82.5°	9.3	7.8	6.0	5.9	5.8	5.8	5.8	5.5	5.2	5.0	4.8
80°	9.3	8.0	6.3	6.3	6.3	6.4	6.3	6.1	5.9	5.8	5.6
77.5°	9.3	8.2	6.6	6.7	6.8	7.0	6.9	6.8	6.7	6.6	6.4
75°	9.3	8.4	6.9	7.1	7.4	7.6	7.5	7.4	7.4	7.3	6.9
72.5°	9.3	8.6	7.3	7.5	8.0	8.2	8.1	8.2	8.3	8.0	7.5
70°	9.3	8.8	7.6	8.0	8.6	8.8	8.8	9.3	9.2	8.8	8.9
67.5°	9.3	9.0	8.0	8.6	9.3	9.5	10.0	10.4	10.2	10.4	10.5
65°	9.3	9.2	8.4	9.3	10.0	10.4	11.3	11.6	12.0	12.0	12.2
62.5°	9.3	9.5	8.7	9.9	10.7	11.6	12.6	13.2	13.8	13.8	14.3
60°	9.3	9.7	9.1	10.6	11.5	12.9	14.0	15.1	15.8	16.4	16.6
57.5°	9.3	9.9	9.8	11.3	12.7	14.2	15.9	17.1	18.4	19.2	20.9
55°	9.3	10.1	10.4	12.1	13.9	15.5	17.9	19.3	21.4	22.9	26.3
52.5°	9.3	10.4	11.1	12.8	15.1	16.9	20.0	22.2	24.5	29.3	32.1
50°	9.3	10.6	11.8	13.5	16.4	18.9	22.2	25.4	28.8	36.2	43.7
47.5°	9.3	10.8	12.4	14.3	17.6	21.0	24.5	28.7	35.8	43.8	57.6
45°	9.3	11.0	13.1	15.3	18.9	23.2	27.5	32.1	43.4	57.8	72.8
42.5°	9.3	11.3	13.8	16.3	20.2	25.3	30.5	37.6	51.4	72.9	96.9
40°	9.3	11.5	14.5	17.4	21.7	27.5	33.6	44.8	61.5	88.8	124.3
37.5°	9.3	11.7	15.1	18.6	23.4	29.8	37.0	52.1	75.6	107.5	153.7
35°	9.3	11.9	15.8	19.8	25.2	32.3	40.4	59.6	89.8	132.8	187.6
32.5°	9.3	12.2	16.5	21.1	26.9	35.1	44.8	67.2	104.2	158.5	222.7
30°	9.3	12.4	17.1	22.3	28.5	37.8	51.0	76.0	118.7	184.5	256.2
27.5°	9.3	12.6	17.8	23.5	30.5	40.5	57.2	87.7	135.6	210.5	287.9
25°	9.3	12.8	18.5	24.7	32.5	43.2	63.2	99.2	155.7	236.9	318.2
22.5°	9.3	13.0	19.1	25.9	34.5	46.0	69.1	110.4	174.6	259.1	352.3
20°	9.3	13.2	19.7	27.1	36.4	48.9	74.8	121.2	192.1	279.9	382.3
17.5°	9.3	13.4	20.3	28.3	38.2	51.6	80.1	131.5	208.2	299.2	410.6
15°	9.3	13.6	20.9	29.4	40.0	54.3	84.9	140.6	222.9	317.0	437.1
12.5°	9.3	13.8	21.5	30.5	41.7	56.9	89.5	148.1	236.0	333.1	461.6
10°	9.3	14.0	22.0	31.6	43.3	59.3	93.6	154.7	247.6	349.2	484.5
7.5°	9.3	14.1	22.5	32.6	44.8	61.6	97.3	160.5	258.0	364.0	506.0
5°	9.3	14.3	23.0	33.5	46.2	63.7	100.6	165.4	267.1	377.2	524.9
2.5°	9.3	14.5	23.5	34.5	47.6	65.7	103.5	169.4	274.6	388.6	540.8
0°	9.3	14.6	23.9	35.3	48.8	67.5	105.9	172.5	280.6	398.0	553.8
-2.5°	9.3	14.9	24.7	36.4	50.4	69.5	108.6	176.6	286.3	406.8	564.1
-5°	9.3	15.3	25.4	37.5	51.9	71.3	110.8	179.8	290.3	413.3	571.1
-7.5°	9.3	15.6	26.1	38.5	53.3	72.9	112.6	181.9	292.4	417.4	574.8
-10°	9.3	15.9	26.7	39.4	54.5	74.3	113.8	182.9	292.5	419.0	575.2
-12.5°	9.3	16.1	27.3	40.3	55.6	75.5	114.5	182.9	290.7	418.0	573.6
-15°	9.3	16.4	27.8	41.0	56.6	76.5	114.7	181.6	287.4	415.3	569.0
-17.5°	9.3	16.7	28.3	41.7	57.5	77.4	114.3	179.9	282.8	409.7	560.6
-20°	9.3	16.9	28.8	42.4	58.3	78.0	113.6	177.5	276.3	401.2	548.4



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 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	9.3	17.1	29.1	42.9	58.9	78.4	112.7	173.6	267.9	389.7	532.4
-25°	9.3	17.3	29.5	43.4	59.3	78.9	111.1	168.3	257.4	375.2	513.3
-27.5°	9.3	17.5	29.8	43.7	59.6	79.2	108.8	161.5	245.0	359.9	495.6
-30°	9.3	17.6	30.0	44.0	59.8	79.3	105.8	153.1	234.4	344.7	474.6
-32.5°	9.3	17.8	30.1	44.2	60.1	79.2	102.1	147.8	224.3	327.1	450.1
-35°	9.3	17.9	30.2	44.4	60.3	78.9	100.6	143.1	212.0	307.2	422.2
-37.5°	9.3	18.0	30.3	44.4	60.3	78.6	99.9	137.6	197.7	285.0	396.3
-40°	9.3	18.0	30.3	44.4	60.2	78.5	99.1	131.3	181.3	265.0	368.7
-42.5°	9.3	18.1	30.2	44.3	60.1	78.1	98.0	124.2	170.0	244.0	336.9
-45°	9.3	18.1	30.1	44.2	60.0	77.6	96.7	119.0	160.9	221.0	302.6
-47.5°	9.3	18.1	29.9	44.0	59.7	77.0	95.1	117.0	151.0	196.5	274.8
-50°	9.3	18.1	29.6	43.7	59.3	76.1	93.8	114.6	139.8	183.5	244.8
-52.5°	9.3	18.1	29.3	43.3	58.7	75.1	92.4	111.7	133.5	169.1	214.2
-55°	9.3	18.0	28.9	42.8	57.9	74.0	90.6	108.5	129.3	153.5	195.4
-57.5°	9.3	17.9	28.5	42.3	57.0	72.7	88.7	106.1	124.7	145.6	175.3
-60°	9.3	17.8	28.0	41.6	56.0	71.2	86.5	103.2	120.0	139.7	158.5
-62.5°	9.3	17.7	27.7	40.8	55.0	69.5	84.5	100.1	116.3	133.1	150.9
-65°	9.3	17.5	27.3	40.0	53.8	67.8	82.2	96.9	112.3	127.8	142.8
-67.5°	9.3	17.3	26.8	39.1	52.5	65.9	79.8	93.8	108.1	122.6	136.1
-70°	9.3	17.2	26.3	38.1	51.1	63.8	77.2	90.5	104.0	117.1	129.9
-72.5°	9.3	17.0	25.7	37.2	49.5	61.6	74.3	86.9	99.7	111.7	123.4
-75°	9.3	16.7	25.1	36.3	47.9	59.3	71.1	83.0	95.0	106.1	117.1
-77.5°	9.3	16.5	24.5	35.3	46.5	56.8	67.8	78.9	90.2	100.3	110.4
-80°	9.3	16.2	23.8	34.3	45.0	54.6	64.3	74.6	85.1	94.0	103.0
-82.5°	9.3	16.0	23.1	33.2	43.5	52.5	61.5	70.6	79.9	87.5	95.2
-85°	9.3	15.7	22.4	32.1	41.9	50.3	58.8	67.1	75.5	81.9	88.1
-87.5°	9.3	15.4	21.6	30.9	40.2	48.0	55.9	63.5	71.1	76.8	82.6
-90°	9.3	7.2	5.1	4.7	4.2	4.2	4.2	4.2	4.2	3.7	3.2



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 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	81.6	86.2	89.9	93.6	97.8	101.9	106.0	110.1	114.3	118.4	122.1
87.5°	3.7	3.7	3.5	3.2	3.2	3.2	2.7	2.1	2.1	2.1	2.1
85°	4.1	4.2	3.8	3.4	3.3	3.2	2.9	2.6	2.6	2.7	2.7
82.5°	4.8	4.7	4.3	4.0	3.7	3.2	3.2	3.3	3.4	3.5	3.4
80°	5.5	5.2	4.9	4.5	4.2	3.8	3.9	4.0	4.1	4.3	3.9
77.5°	6.1	5.8	5.4	5.1	4.8	4.7	4.8	4.7	4.8	4.9	4.7
75°	6.6	6.3	6.1	5.8	5.7	5.9	5.9	5.5	5.5	5.7	5.6
72.5°	7.4	7.1	6.7	6.4	6.6	6.5	6.1	6.1	7.3	9.2	10.7
70°	8.7	8.1	7.7	7.8	7.6	7.5	9.1	11.6	14.0	16.8	20.1
67.5°	10.2	9.7	9.4	9.6	10.3	12.0	14.6	20.2	25.9	29.9	32.8
65°	11.8	11.5	11.7	12.5	13.4	18.7	25.6	32.3	37.7	40.4	42.0
62.5°	13.5	14.5	14.8	16.8	21.1	27.3	35.5	42.2	47.3	46.7	44.5
60°	17.5	18.3	20.6	24.6	29.4	35.8	44.6	47.6	48.0	47.8	42.3
57.5°	22.3	25.2	29.6	33.4	39.6	43.0	45.4	46.8	47.2	44.1	37.5
55°	29.6	35.0	41.0	45.0	49.2	45.2	46.4	49.3	47.3	42.5	34.4
52.5°	41.0	47.2	56.3	59.6	58.0	55.1	55.4	56.7	52.1	46.8	41.0
50°	53.1	65.8	74.0	78.0	72.8	73.6	71.0	71.6	71.1	69.0	70.6
47.5°	71.5	86.6	98.1	103.3	98.9	107.8	106.0	123.2	121.8	152.7	156.6
45°	93.3	115.7	129.2	140.8	151.0	163.7	194.1	206.9	257.4	286.1	322.7
42.5°	119.8	151.1	175.7	185.6	239.1	265.1	308.7	359.3	403.8	441.5	459.5
40°	158.2	191.0	231.5	286.5	344.5	388.1	447.9	500.6	530.6	549.0	551.0
37.5°	199.9	249.0	302.2	389.5	452.3	504.8	577.6	598.9	622.6	631.6	661.5
35°	243.5	309.7	397.1	483.3	545.8	611.7	652.3	680.1	700.7	734.1	850.3
32.5°	295.0	372.1	478.4	566.4	629.7	693.7	716.8	751.7	793.5	879.1	1204.9
30°	346.6	440.5	547.0	638.9	703.6	749.8	783.2	827.5	887.3	1212.0	1781.8
27.5°	389.5	501.2	606.0	699.5	767.6	808.5	850.7	914.3	1131.7	1618.4	2467.3
25°	429.4	546.5	664.2	759.3	822.3	868.1	919.5	1002.9	1430.2	2282.3	2901.0
22.5°	467.2	589.2	720.7	819.8	873.4	924.8	1000.3	1278.1	1921.4	2963.0	3265.3
20°	503.2	635.4	773.5	870.9	919.6	981.1	1076.9	1585.2	2566.8	3275.9	3489.3
17.5°	539.6	681.7	820.7	907.0	960.3	1039.8	1178.0	1859.4	3115.5	3523.2	3668.8
15°	575.1	726.3	861.2	939.7	1001.9	1100.1	1411.1	2275.2	3433.2	3732.2	3864.7
12.5°	609.0	765.8	893.2	966.9	1043.0	1158.7	1631.1	2666.3	3599.2	3897.9	3977.0
10°	640.8	800.2	921.7	993.7	1083.2	1213.1	1844.3	2989.0	3757.3	4025.7	4045.5
7.5°	668.3	828.1	947.4	1020.2	1121.1	1263.2	2057.8	3276.5	3863.7	4112.7	4079.3
5°	692.0	849.8	975.4	1051.2	1158.4	1307.4	2238.9	3496.9	3912.8	4152.7	4099.0
2.5°	712.1	867.0	1001.0	1081.5	1193.6	1344.0	2326.6	3603.8	3920.0	4168.4	4151.8
0°	728.4	880.0	1023.4	1109.6	1225.0	1374.7	2374.2	3654.2	3906.6	4164.3	4235.0
-2.5°	741.8	899.9	1048.8	1138.1	1251.0	1402.0	2378.2	3660.4	3935.2	4256.8	4404.9
-5°	751.0	915.6	1069.9	1164.0	1273.6	1423.7	2343.3	3609.7	3970.0	4336.4	4550.5
-7.5°	756.0	926.7	1086.2	1186.5	1293.1	1441.8	2261.8	3545.2	4079.0	4422.9	4669.1
-10°	756.9	934.9	1098.8	1203.7	1309.2	1455.0	2146.9	3400.7	4170.9	4505.3	4739.9
-12.5°	756.1	939.8	1107.2	1219.2	1321.2	1464.0	2030.0	3237.4	4271.1	4605.4	4795.9
-15°	750.3	938.8	1111.6	1234.3	1336.3	1478.9	1889.1	2986.7	4318.5	4659.2	4830.8
-17.5°	739.4	931.8	1108.8	1250.3	1348.7	1487.0	1697.3	2635.5	4112.6	4638.2	4865.1
-20°	723.2	916.8	1096.9	1262.3	1356.1	1491.9	1659.1	2378.7	3621.4	4556.1	4896.5



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	702.4	898.0	1076.5	1250.9	1369.1	1494.8	1651.2	2079.3	3025.6	4411.8	4869.2
-25°	679.6	870.9	1050.6	1232.3	1377.6	1492.8	1632.1	1804.0	2535.1	3733.7	4687.5
-27.5°	655.1	838.0	1025.5	1208.7	1380.8	1486.6	1615.4	1773.2	2166.3	2936.8	4350.0
-30°	626.1	801.4	992.4	1178.5	1356.5	1485.8	1598.9	1724.3	1882.6	2441.6	3481.7
-32.5°	593.8	760.7	948.7	1135.6	1319.4	1483.4	1575.4	1686.3	1821.3	2042.7	2710.8
-35°	560.8	721.6	898.4	1084.3	1274.5	1444.1	1559.4	1649.8	1760.8	1902.6	2243.0
-37.5°	528.4	677.6	841.5	1024.1	1210.5	1379.4	1537.2	1623.3	1717.1	1826.5	1980.3
-40°	492.2	628.0	784.3	955.0	1134.8	1304.2	1460.3	1600.9	1679.8	1775.3	1888.4
-42.5°	452.7	582.0	724.0	878.2	1051.5	1220.5	1376.4	1525.3	1653.1	1728.3	1818.2
-45°	412.3	531.8	660.4	805.1	960.4	1126.7	1278.7	1430.4	1574.3	1697.6	1765.9
-47.5°	366.7	478.2	600.0	725.9	869.2	1017.0	1170.6	1319.5	1471.6	1603.8	1727.2
-50°	321.4	423.4	533.7	650.2	774.7	906.4	1046.3	1196.2	1342.5	1484.5	1611.7
-52.5°	284.8	364.6	466.4	573.3	682.2	796.6	922.7	1055.9	1198.8	1340.1	1463.1
-55°	245.7	316.5	395.7	494.2	592.3	692.9	799.9	919.4	1042.8	1177.4	1294.6
-57.5°	216.1	269.2	335.0	411.9	502.3	592.0	686.2	784.5	895.6	1010.2	1108.2
-60°	191.6	229.8	280.1	342.8	411.4	492.7	572.2	660.7	754.4	840.5	928.7
-62.5°	168.9	200.3	235.7	279.7	338.5	395.2	462.7	540.0	622.1	696.7	763.9
-65°	159.7	175.0	201.8	235.0	268.9	316.7	366.4	421.7	491.6	553.4	611.6
-67.5°	150.0	164.5	178.7	196.5	226.6	254.4	281.0	329.6	378.7	419.5	462.1
-70°	142.2	154.0	166.8	179.8	193.0	209.7	234.9	261.4	287.1	313.7	349.5
-72.5°	134.4	145.1	155.7	166.2	177.9	189.7	201.9	214.3	232.6	253.7	273.3
-75°	126.7	135.9	145.4	154.8	164.3	173.9	184.0	195.2	206.4	217.6	228.3
-77.5°	119.1	127.4	135.4	143.4	151.6	160.2	169.1	178.3	187.4	196.5	205.3
-80°	110.9	118.6	125.7	132.7	139.9	147.1	154.6	162.3	170.2	178.2	185.8
-82.5°	101.9	108.7	115.1	121.5	127.7	134.0	140.4	146.7	153.2	159.7	166.4
-85°	93.4	98.5	104.2	109.9	114.7	119.6	125.3	130.8	136.4	141.9	147.6
-87.5°	87.5	92.4	96.8	101.2	105.3	109.2	113.7	118.2	122.7	127.2	131.5
-90°	3.2	3.2	3.2	3.2	3.2	3.2	2.7	2.1	2.1	2.1	2.1



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	125.7	128.3	130.9	132.5	134.0	136.1	138.2	141.8	145.4	147.5	149.6
87.5°	2.1	1.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	2.8	2.3	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1
82.5°	3.2	3.0	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.1
80°	3.6	3.6	3.7	3.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	4.4	4.4	4.5	4.0	3.4	3.2	3.2	3.2	3.2	3.2	3.2
75°	5.2	5.5	6.5	6.6	6.2	6.3	6.5	6.3	5.7	5.4	5.0
72.5°	11.5	12.2	13.3	14.3	14.5	15.1	16.1	17.3	18.8	20.0	21.0
70°	22.3	24.2	26.1	26.8	26.5	26.8	27.8	29.2	30.9	32.6	34.4
67.5°	33.2	32.8	34.1	35.5	34.8	33.8	32.8	32.6	33.7	34.9	36.0
65°	40.1	35.0	34.2	33.9	33.2	31.5	28.7	26.6	25.6	24.3	23.2
62.5°	39.9	32.5	29.2	27.0	25.3	23.7	20.1	17.0	15.0	13.6	13.6
60°	35.3	27.6	22.6	19.8	16.9	13.7	11.5	9.4	8.3	7.7	7.9
57.5°	29.6	22.4	17.4	15.8	13.3	9.9	7.9	6.8	6.2	5.5	5.5
55°	27.5	23.8	19.0	18.1	16.3	13.6	11.4	11.4	10.5	9.2	9.9
52.5°	35.2	37.0	32.5	31.6	39.7	38.5	30.3	38.7	44.0	44.8	45.1
50°	78.5	79.1	100.0	98.8	113.8	125.1	122.0	134.8	152.5	157.9	162.7
47.5°	190.6	209.5	223.9	236.4	256.5	286.4	309.3	327.5	339.4	342.9	348.8
45°	346.3	357.1	379.5	405.4	440.9	488.0	512.8	525.1	622.1	698.6	764.3
42.5°	467.4	492.1	535.3	598.6	633.4	822.9	1082.5	1161.9	1210.1	1273.8	1305.7
40°	580.2	627.9	760.4	920.4	1301.3	1670.7	1772.2	1822.4	1872.4	1830.7	1768.0
37.5°	754.8	909.7	1237.4	1652.5	1876.5	2038.5	2083.4	2060.9	2075.2	2063.5	2013.0
35°	1084.4	1537.6	1910.0	2037.0	2142.1	2139.1	2125.2	2098.1	2076.4	2044.9	2025.1
32.5°	1753.2	2224.5	2236.7	2231.6	2221.9	2188.2	2147.8	2100.6	2048.9	2014.2	2011.6
30°	2458.7	2488.6	2435.2	2355.3	2288.0	2238.6	2181.8	2143.6	2114.9	2106.5	2193.7
27.5°	2741.7	2724.7	2624.8	2481.5	2367.4	2306.9	2286.4	2278.4	2385.8	2474.3	2599.0
25°	3082.8	2978.9	2858.9	2678.0	2552.9	2452.2	2504.3	2603.9	2797.0	2975.2	3123.8
22.5°	3299.0	3239.1	3098.9	2910.4	2775.6	2746.0	2834.1	3067.0	3324.4	3618.1	4198.3
20°	3484.3	3437.4	3258.7	3070.4	3000.2	3074.9	3305.2	3680.3	4274.2	6116.6	8137.5
17.5°	3630.2	3516.5	3349.5	3204.1	3219.4	3486.0	3951.0	5051.4	7644.7	14142.3	20391.0
15°	3757.4	3608.2	3403.5	3371.7	3559.5	3991.7	4914.4	8402.5	16850.3	27974.1	41123.9
12.5°	3855.4	3657.2	3452.7	3521.4	3893.0	4580.0	7849.6	15822.9	29208.4	45760.6	75036.8
10°	3894.4	3659.8	3565.6	3770.8	4286.5	5933.4	11558.9	23676.2	42744.9	76063.4	119000.2
7.5°	3884.7	3661.9	3691.5	3984.3	4595.2	7637.5	16744.8	33419.2	61298.1	105786.7	174822.6
5°	3895.5	3717.5	3828.0	4175.3	4890.9	8622.6	20570.2	41105.4	78582.9	137432.5	231302.8
2.5°	3968.8	3815.2	3938.5	4326.7	5031.5	9417.6	23006.9	47134.4	91469.5	163643.5	280067.4
0°	4126.9	3898.3	4061.5	4435.5	5156.6	9849.8	24441.6	50690.1	96793.0	173491.0	298784.5
-2.5°	4265.4	3998.4	4141.2	4514.4	5240.2	9643.8	24943.2	50851.6	91861.7	162694.0	279079.5
-5°	4402.7	4130.8	4212.9	4578.1	5273.1	9083.4	22178.7	45210.4	82832.8	140046.2	231602.4
-7.5°	4552.0	4286.4	4290.5	4621.0	5266.0	8451.8	18872.8	37458.5	66168.6	112060.7	175720.5
-10°	4711.9	4462.8	4379.3	4646.6	5255.9	7079.7	13123.9	27355.1	48807.3	80107.9	120614.7
-12.5°	4885.0	4670.1	4475.4	4620.1	5131.8	5975.8	9645.8	18338.8	32382.7	52307.9	78905.7
-15°	5030.1	4875.3	4663.9	4676.6	4967.2	5534.9	6609.6	10098.6	19717.3	32127.2	46332.6
-17.5°	5060.7	5084.8	4888.5	4701.2	4772.0	5129.9	5717.1	6944.1	10110.2	17367.0	25608.1
-20°	5075.1	5288.1	5129.6	4913.8	4792.1	4857.2	5152.5	5603.8	6379.8	8860.6	11862.5



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5099.5	5302.7	5391.7	5203.7	4923.4	4816.6	4821.7	5060.6	5376.3	5714.2	6712.8
-25°	5134.5	5340.2	5543.5	5499.0	5261.4	4970.0	4790.7	4746.3	4903.0	5064.7	5301.3
-27.5°	5020.2	5387.5	5640.9	5730.3	5595.6	5318.1	5006.0	4771.3	4732.6	4698.3	4837.3
-30°	4832.2	5346.0	5643.4	5830.8	5802.5	5638.5	5396.2	5156.3	4914.0	4738.9	4712.8
-32.5°	4001.7	5225.4	5530.6	5737.9	5892.2	5843.8	5743.9	5561.4	5374.4	5191.7	5025.5
-35°	3113.4	4305.1	5361.6	5517.1	5700.0	5858.2	5935.3	5848.5	5750.4	5624.2	5506.0
-37.5°	2372.3	3245.3	4196.6	5051.2	5355.1	5606.6	5822.5	5933.6	5964.4	5886.5	5831.0
-40°	2026.1	2286.3	3029.4	3725.1	4439.5	5077.5	5353.9	5717.7	5948.8	5971.5	5973.0
-42.5°	1917.2	2026.2	2130.7	2604.4	3147.8	3667.6	4304.6	4948.4	5441.1	5719.8	5895.2
-45°	1838.9	1911.7	1982.2	2060.5	2123.4	2506.1	2982.3	3464.8	3970.5	4567.2	5094.3
-47.5°	1784.1	1829.2	1881.3	1928.0	1967.2	2018.2	2074.5	2186.9	2548.9	2953.4	3340.1
-50°	1702.4	1774.7	1808.7	1838.1	1867.9	1897.0	1925.1	1969.4	2020.7	2070.2	2108.7
-52.5°	1566.7	1647.4	1719.9	1774.2	1794.2	1814.9	1834.9	1868.1	1901.1	1933.3	1957.0
-55°	1396.8	1485.5	1568.5	1626.1	1675.9	1725.0	1767.1	1791.3	1819.1	1846.7	1864.8
-57.5°	1207.1	1298.8	1380.0	1441.7	1500.1	1556.0	1603.4	1645.1	1691.9	1735.1	1764.9
-60°	1013.2	1092.9	1167.3	1231.7	1294.5	1353.7	1405.5	1452.0	1498.3	1540.0	1571.3
-62.5°	828.5	896.8	958.5	1013.4	1069.4	1122.8	1172.9	1221.5	1270.8	1310.5	1340.1
-65°	667.5	722.5	766.9	808.2	853.2	900.0	940.6	981.4	1028.2	1065.2	1091.1
-67.5°	513.2	559.1	594.1	626.0	658.7	694.2	730.8	764.8	800.2	828.8	850.6
-70°	385.0	415.6	437.7	460.5	486.5	513.5	543.1	570.5	594.7	613.3	627.2
-72.5°	292.4	307.5	320.5	338.9	354.8	371.9	389.5	407.2	423.9	436.2	445.8
-75°	238.8	247.6	257.7	266.5	273.9	282.5	291.4	302.1	312.9	319.5	324.5
-77.5°	214.3	220.4	225.2	228.9	232.3	237.1	242.1	249.7	257.7	262.5	266.5
-80°	193.3	197.9	201.9	204.9	207.6	211.6	215.8	222.1	228.6	233.1	237.2
-82.5°	173.0	176.7	180.0	182.7	185.2	188.5	191.7	197.3	202.9	206.8	210.6
-85°	153.3	156.4	159.3	161.3	163.2	166.0	168.8	174.0	179.1	181.3	183.2
-87.5°	135.9	138.8	141.7	143.0	144.3	146.6	148.9	153.2	157.5	159.7	161.9
-90°	2.1	1.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	151.2	152.8	152.3	151.7	152.3	152.8	151.2	149.6	147.5	145.4	141.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.0
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	2.7	2.1	2.6	3.2	2.6	2.1	2.7	3.2	3.2	3.2	3.2
75°	4.6	4.2	4.2	4.2	4.2	4.2	4.6	5.0	5.4	5.7	6.3
72.5°	21.8	22.4	22.8	22.9	22.8	22.4	21.8	21.0	20.0	18.8	17.3
70°	36.1	37.8	38.8	39.5	38.8	37.8	36.1	34.4	32.6	30.9	29.2
67.5°	37.1	38.2	38.4	38.4	38.4	38.2	37.1	36.0	34.9	33.7	32.6
65°	21.6	19.7	18.9	18.7	18.9	19.7	21.6	23.2	24.3	25.6	26.6
62.5°	13.3	12.8	13.0	13.5	13.0	12.8	13.3	13.6	13.6	15.0	17.0
60°	7.8	7.5	7.7	8.3	7.7	7.5	7.8	7.9	7.7	8.3	9.4
57.5°	5.6	6.1	6.6	7.2	6.6	6.1	5.6	5.5	5.5	6.2	6.8
55°	10.6	11.1	11.7	12.5	11.7	11.1	10.6	9.9	9.2	10.5	11.4
52.5°	43.3	41.6	39.6	37.4	39.6	41.6	43.3	45.1	44.8	44.0	38.7
50°	167.6	174.4	177.5	176.6	177.5	174.4	167.6	162.7	157.9	152.5	134.8
47.5°	355.8	357.0	351.8	341.9	351.8	357.0	355.8	348.8	342.9	339.4	327.5
45°	817.9	762.9	677.1	600.5	677.1	762.9	817.9	764.3	698.6	622.1	525.1
42.5°	1395.6	1453.2	1496.1	1512.8	1496.1	1453.2	1395.6	1305.7	1273.8	1210.1	1161.9
40°	1733.3	1679.5	1642.6	1646.8	1642.6	1679.5	1733.3	1768.0	1830.7	1872.4	1822.4
37.5°	2005.6	2018.4	2017.2	2013.6	2017.2	2018.4	2005.6	2013.0	2063.5	2075.2	2060.9
35°	2047.3	2127.1	2230.1	2289.9	2230.1	2127.1	2047.3	2025.1	2044.9	2076.4	2098.1
32.5°	2030.1	2088.9	2091.9	2093.6	2091.9	2088.9	2030.1	2011.6	2014.2	2048.9	2100.6
30°	2253.6	2308.9	2310.2	2309.7	2310.2	2308.9	2253.6	2193.7	2106.5	2114.9	2143.6
27.5°	2678.5	2742.5	2772.2	2764.8	2772.2	2742.5	2678.5	2599.0	2474.3	2385.8	2278.4
25°	3217.4	3264.3	3288.6	3283.2	3288.6	3264.3	3217.4	3123.8	2975.2	2797.0	2603.9
22.5°	5043.8	5253.8	5400.7	5426.7	5400.7	5253.8	5043.8	4198.3	3618.1	3324.4	3067.0
20°	12495.3	14384.8	14721.7	13976.8	14721.7	14384.8	12495.3	8137.5	6116.6	4274.2	3680.3
17.5°	29210.9	36237.9	42609.6	45805.7	42609.6	36237.9	29210.9	20391.0	14142.3	7644.7	5051.4
15°	59025.2	76462.3	88571.4	94444.9	88571.4	76462.3	59025.2	41123.9	27974.1	16850.3	8402.5
12.5°	104651.7	136933.1	161496.8	175616.4	161496.8	136933.1	104651.7	75036.8	45760.6	29208.4	15822.9
10°	174648.4	233820.8	285116.4	314554.6	285116.4	233820.8	174648.4	119000.2	76063.4	42744.9	23676.2
7.5°	266562.7	359613.5	419097.7	447963.9	419097.7	359613.5	266562.7	174822.6	105786.7	61298.1	33419.2
5°	352153.8	458030.4	537149.8	568586.0	537149.8	458030.4	352153.8	231302.8	137432.5	78582.9	41105.4
2.5°	416567.1	531209.1	615889.9	658945.5	615889.9	531209.1	416567.1	280067.4	163643.5	91469.5	47134.4
0°	437201.3	555372.9	646051.8	695500.9	646051.8	555372.9	437201.3	298784.5	173491.0	96793.0	50690.1
-2.5°	412288.8	528621.6	602735.4	634011.3	602735.4	528621.6	412288.8	279079.5	162694.0	91861.7	50851.6
-5°	351725.9	447258.0	519201.1	540454.8	519201.1	447258.0	351725.9	231602.4	140046.2	82832.8	45210.4
-7.5°	255090.9	342359.8	400666.5	418980.1	400666.5	342359.8	255090.9	175720.5	112060.7	66168.6	37458.5
-10°	171211.7	227204.6	267209.0	285145.5	267209.0	227204.6	171211.7	120614.7	80107.9	48807.3	27355.1
-12.5°	107539.5	136798.7	157088.5	165662.6	157088.5	136798.7	107539.5	78905.7	52307.9	32382.7	18338.8
-15°	64711.7	79707.7	89143.2	92669.2	89143.2	79707.7	64711.7	46332.6	32127.2	19717.3	10098.6
-17.5°	35375.2	42739.8	47550.1	49668.8	47550.1	42739.8	35375.2	25608.1	17367.0	10110.2	6944.1
-20°	17379.0	21221.8	23981.7	25308.2	23981.7	21221.8	17379.0	11862.5	8860.6	6379.8	5603.8



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	8168.3	9051.5	9608.8	10103.3	9608.8	9051.5	8168.3	6712.8	5714.2	5376.3	5060.6
-25°	5506.8	5682.4	5782.0	5850.7	5782.0	5682.4	5506.8	5301.3	5064.7	4903.0	4746.3
-27.5°	4949.8	5074.2	5139.3	5190.9	5139.3	5074.2	4949.8	4837.3	4698.3	4732.6	4771.3
-30°	4696.5	4714.9	4728.2	4748.3	4728.2	4714.9	4696.5	4712.8	4738.9	4914.0	5156.3
-32.5°	4895.6	4809.9	4767.3	4763.8	4767.3	4809.9	4895.6	5025.5	5191.7	5374.4	5561.4
-35°	5417.8	5357.2	5342.3	5339.5	5342.3	5357.2	5417.8	5506.0	5624.2	5750.4	5848.5
-37.5°	5793.6	5776.7	5773.9	5771.6	5773.9	5776.7	5793.6	5831.0	5886.5	5964.4	5933.6
-40°	5975.6	5986.0	5996.3	5989.9	5996.3	5986.0	5975.6	5973.0	5971.5	5948.8	5717.7
-42.5°	5969.9	6005.5	6022.4	6028.4	6022.4	6005.5	5969.9	5895.2	5719.8	5441.1	4948.4
-45°	5477.1	5735.9	5868.0	5891.1	5868.0	5735.9	5477.1	5094.3	4567.2	3970.5	3464.8
-47.5°	3670.2	3998.8	4162.4	4123.9	4162.4	3998.8	3670.2	3340.1	2953.4	2548.9	2186.9
-50°	2138.7	2172.1	2179.8	2162.2	2179.8	2172.1	2138.7	2108.7	2070.2	2020.7	1969.4
-52.5°	1975.8	1990.4	1992.9	1985.6	1992.9	1990.4	1975.8	1957.0	1933.3	1901.1	1868.1
-55°	1879.3	1888.4	1888.1	1881.6	1888.1	1888.4	1879.3	1864.8	1846.7	1819.1	1791.3
-57.5°	1789.4	1808.2	1811.4	1804.7	1811.4	1808.2	1789.4	1764.9	1735.1	1691.9	1645.1
-60°	1597.4	1618.0	1620.9	1613.5	1620.9	1618.0	1597.4	1571.3	1540.0	1498.3	1452.0
-62.5°	1365.6	1386.5	1389.4	1383.0	1389.4	1386.5	1365.6	1340.1	1310.5	1270.8	1221.5
-65°	1114.2	1133.6	1135.0	1128.3	1135.0	1133.6	1114.2	1091.1	1065.2	1028.2	981.4
-67.5°	870.5	887.2	889.3	885.3	889.3	887.2	870.5	850.6	828.8	800.2	764.8
-70°	640.8	652.3	651.9	647.3	651.9	652.3	640.8	627.2	613.3	594.7	570.5
-72.5°	455.7	464.5	462.7	458.2	462.7	464.5	455.7	445.8	436.2	423.9	407.2
-75°	329.5	334.0	331.7	328.3	331.7	334.0	329.5	324.5	319.5	312.9	302.1
-77.5°	270.2	273.6	271.6	269.1	271.6	273.6	270.2	266.5	262.5	257.7	249.7
-80°	240.1	242.7	241.0	239.0	241.0	242.7	240.1	237.2	233.1	228.6	222.1
-82.5°	212.8	214.7	213.4	212.0	213.4	214.7	212.8	210.6	206.8	202.9	197.3
-85°	185.6	187.9	187.0	186.0	187.0	187.9	185.6	183.2	181.3	179.1	174.0
-87.5°	163.5	165.1	164.2	163.2	164.2	165.1	163.5	161.9	159.7	157.5	153.2
-90°	0.5	0.0	0.5	1.0	0.5	0.0	0.5	1.0	1.0	1.0	1.0



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	138.2	136.1	134.0	132.5	130.9	128.3	125.7	122.1	118.4	114.3	110.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.6	2.1	2.1	2.1	2.1	2.1
85°	2.0	1.9	1.9	1.9	1.8	2.3	2.8	2.7	2.7	2.6	2.6
82.5°	3.0	2.9	2.9	2.8	2.8	3.0	3.2	3.4	3.5	3.4	3.3
80°	3.2	3.2	3.2	3.5	3.7	3.6	3.6	3.9	4.3	4.1	4.0
77.5°	3.2	3.2	3.4	4.0	4.5	4.4	4.4	4.7	4.9	4.8	4.7
75°	6.5	6.3	6.2	6.6	6.5	5.5	5.2	5.6	5.7	5.5	5.5
72.5°	16.1	15.1	14.5	14.3	13.3	12.2	11.5	10.7	9.2	7.3	6.1
70°	27.8	26.8	26.5	26.8	26.1	24.2	22.3	20.1	16.8	14.0	11.6
67.5°	32.8	33.8	34.8	35.5	34.1	32.8	33.2	32.8	29.9	25.9	20.2
65°	28.7	31.5	33.2	33.9	34.2	35.0	40.1	42.0	40.4	37.7	32.3
62.5°	20.1	23.7	25.3	27.0	29.2	32.5	39.9	44.5	46.7	47.3	42.2
60°	11.5	13.7	16.9	19.8	22.6	27.6	35.3	42.3	47.8	48.0	47.6
57.5°	7.9	9.9	13.3	15.8	17.4	22.4	29.6	37.5	44.1	47.2	46.8
55°	11.4	13.6	16.3	18.1	19.0	23.8	27.5	34.4	42.5	47.3	49.3
52.5°	30.3	38.5	39.7	31.6	32.5	37.0	35.2	41.0	46.8	52.1	56.7
50°	122.0	125.1	113.8	98.8	100.0	79.1	78.5	70.6	69.0	71.1	71.6
47.5°	309.3	286.4	256.5	236.4	223.9	209.5	190.6	156.6	152.7	121.8	123.2
45°	512.8	488.0	440.9	405.4	379.5	357.1	346.3	322.7	286.1	257.4	206.9
42.5°	1082.5	822.9	633.4	598.6	535.3	492.1	467.4	459.5	441.5	403.8	359.3
40°	1772.2	1670.7	1301.3	920.4	760.4	627.9	580.2	551.0	549.0	530.6	500.6
37.5°	2083.4	2038.5	1876.5	1652.5	1237.4	909.7	754.8	661.5	631.6	622.6	598.9
35°	2125.2	2139.1	2142.1	2037.0	1910.0	1537.6	1084.4	850.3	734.1	700.7	680.1
32.5°	2147.8	2188.2	2221.9	2231.6	2236.7	2224.5	1753.2	1204.9	879.1	793.5	751.7
30°	2181.8	2238.6	2288.0	2355.3	2435.2	2488.6	2458.7	1781.8	1212.0	887.3	827.5
27.5°	2286.4	2306.9	2367.4	2481.5	2624.8	2724.7	2741.7	2467.3	1618.4	1131.7	914.3
25°	2504.3	2452.2	2552.9	2678.0	2858.9	2978.9	3082.8	2901.0	2282.3	1430.2	1002.9
22.5°	2834.1	2746.0	2775.6	2910.4	3098.9	3239.1	3299.0	3265.3	2963.0	1921.4	1278.1
20°	3305.2	3074.9	3000.2	3070.4	3258.7	3437.4	3484.3	3489.3	3275.9	2566.8	1585.2
17.5°	3951.0	3486.0	3219.4	3204.1	3349.5	3516.5	3630.2	3668.8	3523.2	3115.5	1859.4
15°	4914.4	3991.7	3559.5	3371.7	3403.5	3608.2	3757.4	3864.7	3732.2	3433.2	2275.2
12.5°	7849.6	4580.0	3893.0	3521.4	3452.7	3657.2	3855.4	3977.0	3897.9	3599.2	2666.3
10°	11558.9	5933.4	4286.5	3770.8	3565.6	3659.8	3894.4	4045.5	4025.7	3757.3	2989.0
7.5°	16744.8	7637.5	4595.2	3984.3	3691.5	3661.9	3884.7	4079.3	4112.7	3863.7	3276.5
5°	20570.2	8622.6	4890.9	4175.3	3828.0	3717.5	3895.5	4099.0	4152.7	3912.8	3496.9
2.5°	23006.9	9417.6	5031.5	4326.7	3938.5	3815.2	3968.8	4151.8	4168.4	3920.0	3603.8
0°	24441.6	9849.8	5156.6	4435.5	4061.5	3898.3	4126.9	4235.0	4164.3	3906.6	3654.2
-2.5°	24943.2	9643.8	5240.2	4514.4	4141.2	3998.4	4265.4	4404.9	4256.8	3935.2	3660.4
-5°	22178.7	9083.4	5273.1	4578.1	4212.9	4130.8	4402.7	4550.5	4336.4	3970.0	3609.7
-7.5°	18872.8	8451.8	5266.0	4621.0	4290.5	4286.4	4552.0	4669.1	4422.9	4079.0	3545.2
-10°	13123.9	7079.7	5255.9	4646.6	4379.3	4462.8	4711.9	4739.9	4505.3	4170.9	3400.7
-12.5°	9645.8	5975.8	5131.8	4620.1	4475.4	4670.1	4885.0	4795.9	4605.4	4271.1	3237.4
-15°	6609.6	5534.9	4967.2	4676.6	4663.9	4875.3	5030.1	4830.8	4659.2	4318.5	2986.7
-17.5°	5717.1	5129.9	4772.0	4701.2	4888.5	5084.8	5060.7	4865.1	4638.2	4112.6	2635.5
-20°	5152.5	4857.2	4792.1	4913.8	5129.6	5288.1	5075.1	4896.5	4556.1	3621.4	2378.7



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4821.7	4816.6	4923.4	5203.7	5391.7	5302.7	5099.5	4869.2	4411.8	3025.6	2079.3
-25°	4790.7	4970.0	5261.4	5499.0	5543.5	5340.2	5134.5	4687.5	3733.7	2535.1	1804.0
-27.5°	5006.0	5318.1	5595.6	5730.3	5640.9	5387.5	5020.2	4350.0	2936.8	2166.3	1773.2
-30°	5396.2	5638.5	5802.5	5830.8	5643.4	5346.0	4832.2	3481.7	2441.6	1882.6	1724.3
-32.5°	5743.9	5843.8	5892.2	5737.9	5530.6	5225.4	4001.7	2710.8	2042.7	1821.3	1686.3
-35°	5935.3	5858.2	5700.0	5517.1	5361.6	4305.1	3113.4	2243.0	1902.6	1760.8	1649.8
-37.5°	5822.5	5606.6	5355.1	5051.2	4196.6	3245.3	2372.3	1980.3	1826.5	1717.1	1623.3
-40°	5353.9	5077.5	4439.5	3725.1	3029.4	2286.3	2026.1	1888.4	1775.3	1679.8	1600.9
-42.5°	4304.6	3667.6	3147.8	2604.4	2130.7	2026.2	1917.2	1818.2	1728.3	1653.1	1525.3
-45°	2982.3	2506.1	2123.4	2060.5	1982.2	1911.7	1838.9	1765.9	1697.6	1574.3	1430.4
-47.5°	2074.5	2018.2	1967.2	1928.0	1881.3	1829.2	1784.1	1727.2	1603.8	1471.6	1319.5
-50°	1925.1	1897.0	1867.9	1838.1	1808.7	1774.7	1702.4	1611.7	1484.5	1342.5	1196.2
-52.5°	1834.9	1814.9	1794.2	1774.2	1719.9	1647.4	1566.7	1463.1	1340.1	1198.8	1055.9
-55°	1767.1	1725.0	1675.9	1626.1	1568.5	1485.5	1396.8	1294.6	1177.4	1042.8	919.4
-57.5°	1603.4	1556.0	1500.1	1441.7	1380.0	1298.8	1207.1	1108.2	1010.2	895.6	784.5
-60°	1405.5	1353.7	1294.5	1231.7	1167.3	1092.9	1013.2	928.7	840.5	754.4	660.7
-62.5°	1172.9	1122.8	1069.4	1013.4	958.5	896.8	828.5	763.9	696.7	622.1	540.0
-65°	940.6	900.0	853.2	808.2	766.9	722.5	667.5	611.6	553.4	491.6	421.7
-67.5°	730.8	694.2	658.7	626.0	594.1	559.1	513.2	462.1	419.5	378.7	329.6
-70°	543.1	513.5	486.5	460.5	437.7	415.6	385.0	349.5	313.7	287.1	261.4
-72.5°	389.5	371.9	354.8	338.9	320.5	307.5	292.4	273.3	253.7	232.6	214.3
-75°	291.4	282.5	273.9	266.5	257.7	247.6	238.8	228.3	217.6	206.4	195.2
-77.5°	242.1	237.1	232.3	228.9	225.2	220.4	214.3	205.3	196.5	187.4	178.3
-80°	215.8	211.6	207.6	204.9	201.9	197.9	193.3	185.8	178.2	170.2	162.3
-82.5°	191.7	188.5	185.2	182.7	180.0	176.7	173.0	166.4	159.7	153.2	146.7
-85°	168.8	166.0	163.2	161.3	159.3	156.4	153.3	147.6	141.9	136.4	130.8
-87.5°	148.9	146.6	144.3	143.0	141.7	138.8	135.9	131.5	127.2	122.7	118.2
-90°	1.0	1.0	1.0	1.0	1.0	1.6	2.1	2.1	2.1	2.1	2.1



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	106.0	101.9	97.8	93.6	89.9	86.2	81.6	76.9	71.7	66.5	59.8
87.5°	2.7	3.2	3.2	3.2	3.5	3.7	3.7	3.6	4.1	4.5	4.6
85°	2.9	3.2	3.3	3.4	3.8	4.2	4.1	4.1	4.4	4.8	5.1
82.5°	3.2	3.2	3.7	4.0	4.3	4.7	4.8	4.8	5.0	5.2	5.5
80°	3.9	3.8	4.2	4.5	4.9	5.2	5.5	5.6	5.8	5.9	6.1
77.5°	4.8	4.7	4.8	5.1	5.4	5.8	6.1	6.4	6.6	6.7	6.8
75°	5.9	5.9	5.7	5.8	6.1	6.3	6.6	6.9	7.3	7.4	7.4
72.5°	6.1	6.5	6.6	6.4	6.7	7.1	7.4	7.5	8.0	8.3	8.2
70°	9.1	7.5	7.6	7.8	7.7	8.1	8.7	8.9	8.8	9.2	9.3
67.5°	14.6	12.0	10.3	9.6	9.4	9.7	10.2	10.5	10.4	10.2	10.4
65°	25.6	18.7	13.4	12.5	11.7	11.5	11.8	12.2	12.0	12.0	11.6
62.5°	35.5	27.3	21.1	16.8	14.8	14.5	13.5	14.3	13.8	13.8	13.2
60°	44.6	35.8	29.4	24.6	20.6	18.3	17.5	16.6	16.4	15.8	15.1
57.5°	45.4	43.0	39.6	33.4	29.6	25.2	22.3	20.9	19.2	18.4	17.1
55°	46.4	45.2	49.2	45.0	41.0	35.0	29.6	26.3	22.9	21.4	19.3
52.5°	55.4	55.1	58.0	59.6	56.3	47.2	41.0	32.1	29.3	24.5	22.2
50°	71.0	73.6	72.8	78.0	74.0	65.8	53.1	43.7	36.2	28.8	25.4
47.5°	106.0	107.8	98.9	103.3	98.1	86.6	71.5	57.6	43.8	35.8	28.7
45°	194.1	163.7	151.0	140.8	129.2	115.7	93.3	72.8	57.8	43.4	32.1
42.5°	308.7	265.1	239.1	185.6	175.7	151.1	119.8	96.9	72.9	51.4	37.6
40°	447.9	388.1	344.5	286.5	231.5	191.0	158.2	124.3	88.8	61.5	44.8
37.5°	577.6	504.8	452.3	389.5	302.2	249.0	199.9	153.7	107.5	75.6	52.1
35°	652.3	611.7	545.8	483.3	397.1	309.7	243.5	187.6	132.8	89.8	59.6
32.5°	716.8	693.7	629.7	566.4	478.4	372.1	295.0	222.7	158.5	104.2	67.2
30°	783.2	749.8	703.6	638.9	547.0	440.5	346.6	256.2	184.5	118.7	76.0
27.5°	850.7	808.5	767.6	699.5	606.0	501.2	389.5	287.9	210.5	135.6	87.7
25°	919.5	868.1	822.3	759.3	664.2	546.5	429.4	318.2	236.9	155.7	99.2
22.5°	1000.3	924.8	873.4	819.8	720.7	589.2	467.2	352.3	259.1	174.6	110.4
20°	1076.9	981.1	919.6	870.9	773.5	635.4	503.2	382.3	279.9	192.1	121.2
17.5°	1178.0	1039.8	960.3	907.0	820.7	681.7	539.6	410.6	299.2	208.2	131.5
15°	1411.1	1100.1	1001.9	939.7	861.2	726.3	575.1	437.1	317.0	222.9	140.6
12.5°	1631.1	1158.7	1043.0	966.9	893.2	765.8	609.0	461.6	333.1	236.0	148.1
10°	1844.3	1213.1	1083.2	993.7	921.7	800.2	640.8	484.5	349.2	247.6	154.7
7.5°	2057.8	1263.2	1121.1	1020.2	947.4	828.1	668.3	506.0	364.0	258.0	160.5
5°	2238.9	1307.4	1158.4	1051.2	975.4	849.8	692.0	524.9	377.2	267.1	165.4
2.5°	2326.6	1344.0	1193.6	1081.5	1001.0	867.0	712.1	540.8	388.6	274.6	169.4
0°	2374.2	1374.7	1225.0	1109.6	1023.4	880.0	728.4	553.8	398.0	280.6	172.5
-2.5°	2378.2	1402.0	1251.0	1138.1	1048.8	899.9	741.8	564.1	406.8	286.3	176.6
-5°	2343.3	1423.7	1273.6	1164.0	1069.9	915.6	751.0	571.1	413.3	290.3	179.8
-7.5°	2261.8	1441.8	1293.1	1186.5	1086.2	926.7	756.0	574.8	417.4	292.4	181.9
-10°	2146.9	1455.0	1309.2	1203.7	1098.8	934.9	756.9	575.2	419.0	292.5	182.9
-12.5°	2030.0	1464.0	1321.2	1219.2	1107.2	939.8	756.1	573.6	418.0	290.7	182.9
-15°	1889.1	1478.9	1336.3	1234.3	1111.6	938.8	750.3	569.0	415.3	287.4	181.6
-17.5°	1697.3	1487.0	1348.7	1250.3	1108.8	931.8	739.4	560.6	409.7	282.8	179.9
-20°	1659.1	1491.9	1356.1	1262.3	1096.9	916.8	723.2	548.4	401.2	276.3	177.5



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1651.2	1494.8	1369.1	1250.9	1076.5	898.0	702.4	532.4	389.7	267.9	173.6
-25°	1632.1	1492.8	1377.6	1232.3	1050.6	870.9	679.6	513.3	375.2	257.4	168.3
-27.5°	1615.4	1486.6	1380.8	1208.7	1025.5	838.0	655.1	495.6	359.9	245.0	161.5
-30°	1598.9	1485.8	1356.5	1178.5	992.4	801.4	626.1	474.6	344.7	234.4	153.1
-32.5°	1575.4	1483.4	1319.4	1135.6	948.7	760.7	593.8	450.1	327.1	224.3	147.8
-35°	1559.4	1444.1	1274.5	1084.3	898.4	721.6	560.8	422.2	307.2	212.0	143.1
-37.5°	1537.2	1379.4	1210.5	1024.1	841.5	677.6	528.4	396.3	285.0	197.7	137.6
-40°	1460.3	1304.2	1134.8	955.0	784.3	628.0	492.2	368.7	265.0	181.3	131.3
-42.5°	1376.4	1220.5	1051.5	878.2	724.0	582.0	452.7	336.9	244.0	170.0	124.2
-45°	1278.7	1126.7	960.4	805.1	660.4	531.8	412.3	302.6	221.0	160.9	119.0
-47.5°	1170.6	1017.0	869.2	725.9	600.0	478.2	366.7	274.8	196.5	151.0	117.0
-50°	1046.3	906.4	774.7	650.2	533.7	423.4	321.4	244.8	183.5	139.8	114.6
-52.5°	922.7	796.6	682.2	573.3	466.4	364.6	284.8	214.2	169.1	133.5	111.7
-55°	799.9	692.9	592.3	494.2	395.7	316.5	245.7	195.4	153.5	129.3	108.5
-57.5°	686.2	592.0	502.3	411.9	335.0	269.2	216.1	175.3	145.6	124.7	106.1
-60°	572.2	492.7	411.4	342.8	280.1	229.8	191.6	158.5	139.7	120.0	103.2
-62.5°	462.7	395.2	338.5	279.7	235.7	200.3	168.9	150.9	133.1	116.3	100.1
-65°	366.4	316.7	268.9	235.0	201.8	175.0	159.7	142.8	127.8	112.3	96.9
-67.5°	281.0	254.4	226.6	196.5	178.7	164.5	150.0	136.1	122.6	108.1	93.8
-70°	234.9	209.7	193.0	179.8	166.8	154.0	142.2	129.9	117.1	104.0	90.5
-72.5°	201.9	189.7	177.9	166.2	155.7	145.1	134.4	123.4	111.7	99.7	86.9
-75°	184.0	173.9	164.3	154.8	145.4	135.9	126.7	117.1	106.1	95.0	83.0
-77.5°	169.1	160.2	151.6	143.4	135.4	127.4	119.1	110.4	100.3	90.2	78.9
-80°	154.6	147.1	139.9	132.7	125.7	118.6	110.9	103.0	94.0	85.1	74.6
-82.5°	140.4	134.0	127.7	121.5	115.1	108.7	101.9	95.2	87.5	79.9	70.6
-85°	125.3	119.6	114.7	109.9	104.2	98.5	93.4	88.1	81.9	75.5	67.1
-87.5°	113.7	109.2	105.3	101.2	96.8	92.4	87.5	82.6	76.8	71.1	63.5
-90°	2.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.7	4.2	4.2



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	53.0	45.7	38.4	29.6	20.8	15.0	9.3
87.5°	4.7	4.7	4.7	5.1	5.4	7.4	9.3
85°	5.2	5.3	5.2	5.5	5.7	7.6	9.3
82.5°	5.8	5.8	5.8	5.9	6.0	7.8	9.3
80°	6.3	6.4	6.3	6.3	6.3	8.0	9.3
77.5°	6.9	7.0	6.8	6.7	6.6	8.2	9.3
75°	7.5	7.6	7.4	7.1	6.9	8.4	9.3
72.5°	8.1	8.2	8.0	7.5	7.3	8.6	9.3
70°	8.8	8.8	8.6	8.0	7.6	8.8	9.3
67.5°	10.0	9.5	9.3	8.6	8.0	9.0	9.3
65°	11.3	10.4	10.0	9.3	8.4	9.2	9.3
62.5°	12.6	11.6	10.7	9.9	8.7	9.5	9.3
60°	14.0	12.9	11.5	10.6	9.1	9.7	9.3
57.5°	15.9	14.2	12.7	11.3	9.8	9.9	9.3
55°	17.9	15.5	13.9	12.1	10.4	10.1	9.3
52.5°	20.0	16.9	15.1	12.8	11.1	10.4	9.3
50°	22.2	18.9	16.4	13.5	11.8	10.6	9.3
47.5°	24.5	21.0	17.6	14.3	12.4	10.8	9.3
45°	27.5	23.2	18.9	15.3	13.1	11.0	9.3
42.5°	30.5	25.3	20.2	16.3	13.8	11.3	9.3
40°	33.6	27.5	21.7	17.4	14.5	11.5	9.3
37.5°	37.0	29.8	23.4	18.6	15.1	11.7	9.3
35°	40.4	32.3	25.2	19.8	15.8	11.9	9.3
32.5°	44.8	35.1	26.9	21.1	16.5	12.2	9.3
30°	51.0	37.8	28.5	22.3	17.1	12.4	9.3
27.5°	57.2	40.5	30.5	23.5	17.8	12.6	9.3
25°	63.2	43.2	32.5	24.7	18.5	12.8	9.3
22.5°	69.1	46.0	34.5	25.9	19.1	13.0	9.3
20°	74.8	48.9	36.4	27.1	19.7	13.2	9.3
17.5°	80.1	51.6	38.2	28.3	20.3	13.4	9.3
15°	84.9	54.3	40.0	29.4	20.9	13.6	9.3
12.5°	89.5	56.9	41.7	30.5	21.5	13.8	9.3
10°	93.6	59.3	43.3	31.6	22.0	14.0	9.3
7.5°	97.3	61.6	44.8	32.6	22.5	14.1	9.3
5°	100.6	63.7	46.2	33.5	23.0	14.3	9.3
2.5°	103.5	65.7	47.6	34.5	23.5	14.5	9.3
0°	105.9	67.5	48.8	35.3	23.9	14.6	9.3
-2.5°	108.6	69.5	50.4	36.4	24.7	14.9	9.3
-5°	110.8	71.3	51.9	37.5	25.4	15.3	9.3
-7.5°	112.6	72.9	53.3	38.5	26.1	15.6	9.3
-10°	113.8	74.3	54.5	39.4	26.7	15.9	9.3
-12.5°	114.5	75.5	55.6	40.3	27.3	16.1	9.3
-15°	114.7	76.5	56.6	41.0	27.8	16.4	9.3
-17.5°	114.3	77.4	57.5	41.7	28.3	16.7	9.3
-20°	113.6	78.0	58.3	42.4	28.8	16.9	9.3



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0680R-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	112.7	78.4	58.9	42.9	29.1	17.1	9.3
-25°	111.1	78.9	59.3	43.4	29.5	17.3	9.3
-27.5°	108.8	79.2	59.6	43.7	29.8	17.5	9.3
-30°	105.8	79.3	59.8	44.0	30.0	17.6	9.3
-32.5°	102.1	79.2	60.1	44.2	30.1	17.8	9.3
-35°	100.6	78.9	60.3	44.4	30.2	17.9	9.3
-37.5°	99.9	78.6	60.3	44.4	30.3	18.0	9.3
-40°	99.1	78.5	60.2	44.4	30.3	18.0	9.3
-42.5°	98.0	78.1	60.1	44.3	30.2	18.1	9.3
-45°	96.7	77.6	60.0	44.2	30.1	18.1	9.3
-47.5°	95.1	77.0	59.7	44.0	29.9	18.1	9.3
-50°	93.8	76.1	59.3	43.7	29.6	18.1	9.3
-52.5°	92.4	75.1	58.7	43.3	29.3	18.1	9.3
-55°	90.6	74.0	57.9	42.8	28.9	18.0	9.3
-57.5°	88.7	72.7	57.0	42.3	28.5	17.9	9.3
-60°	86.5	71.2	56.0	41.6	28.0	17.8	9.3
-62.5°	84.5	69.5	55.0	40.8	27.7	17.7	9.3
-65°	82.2	67.8	53.8	40.0	27.3	17.5	9.3
-67.5°	79.8	65.9	52.5	39.1	26.8	17.3	9.3
-70°	77.2	63.8	51.1	38.1	26.3	17.2	9.3
-72.5°	74.3	61.6	49.5	37.2	25.7	17.0	9.3
-75°	71.1	59.3	47.9	36.3	25.1	16.7	9.3
-77.5°	67.8	56.8	46.5	35.3	24.5	16.5	9.3
-80°	64.3	54.6	45.0	34.3	23.8	16.2	9.3
-82.5°	61.5	52.5	43.5	33.2	23.1	16.0	9.3
-85°	58.8	50.3	41.9	32.1	22.4	15.7	9.3
-87.5°	55.9	48.0	40.2	30.9	21.6	15.4	9.3
-90°	4.2	4.2	4.2	4.7	5.1	7.2	9.3

(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

