

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: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-2S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-2S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

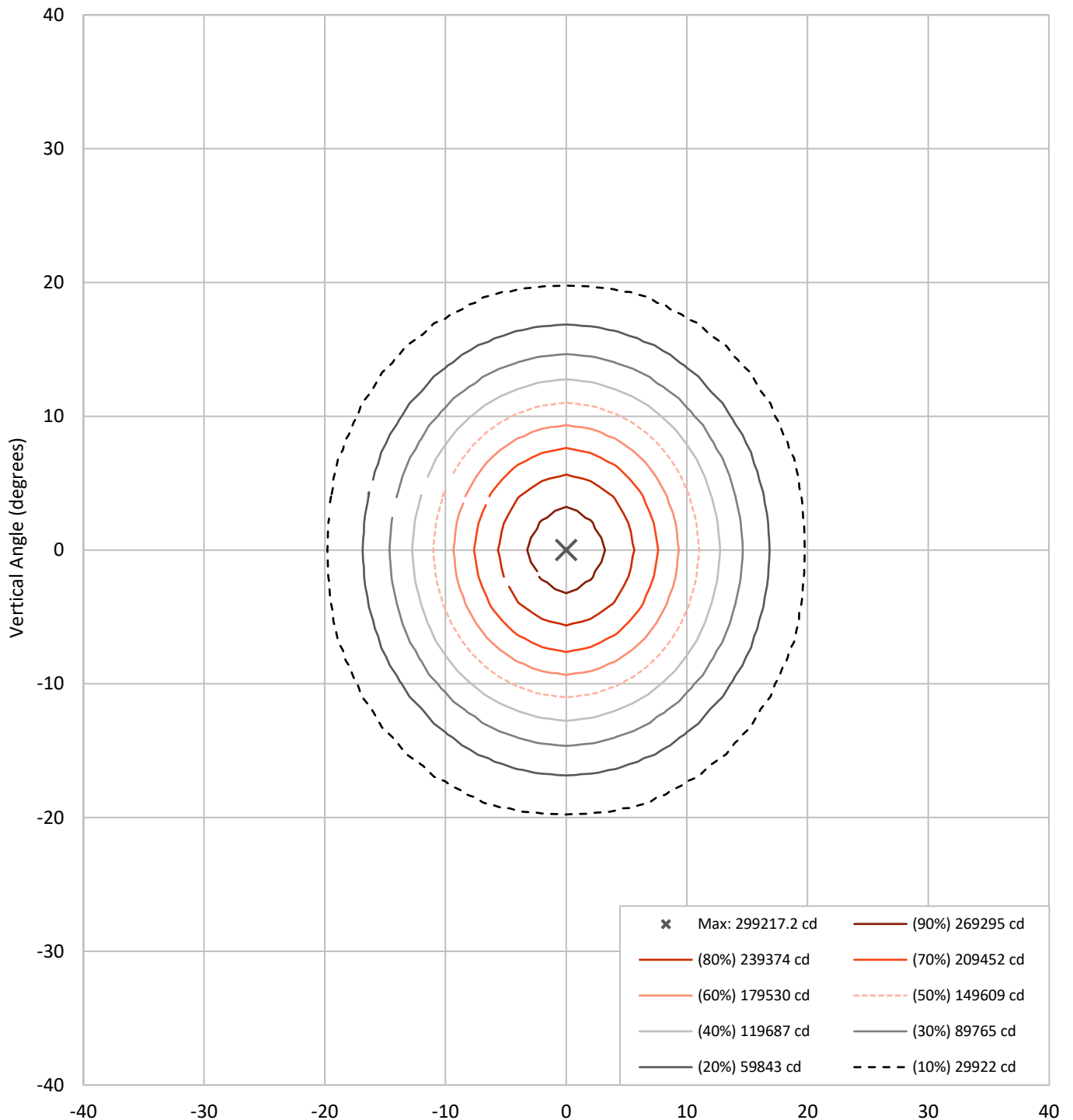
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	53898.4 lumens	Max Intensity:	299217.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	23821.3 lumens	Field Lumens:	44241.9 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%

Input Watts (W): 348.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





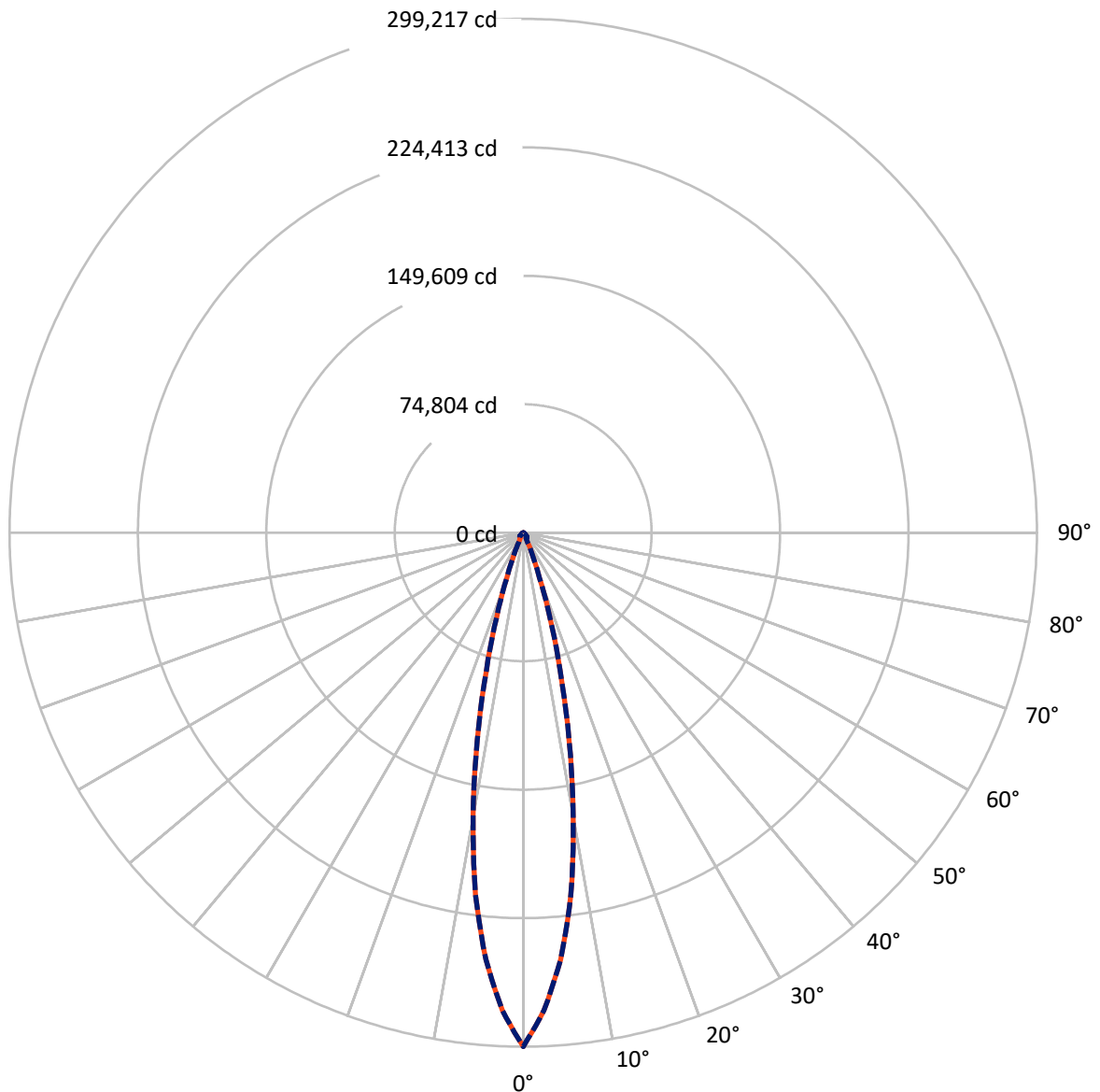
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Lumen Table

90																
80	0.1	0.6		1.9		4.7		6.3		4.7		1.9		0.6		0.1
70																
60	0.2	0.3	1.1	3.4	6.8	10.4	13.4	15.0	15.0	13.4	10.4	6.8	3.4	1.1	0.3	0.2
50		0.8	4.0	9.6	16.6	23.1	27.5	29.7	29.7	27.5	23.1	16.6	9.6	4.0	0.8	
40	0.6	2.1	7.8	16.6	25.4	41.1	62.9	75.3	75.3	62.9	41.1	25.4	16.6	7.8	2.1	0.6
30		3.6	11.7	21.9	48.4	83.2	97.4	102.5	102.5	97.4	83.2	48.4	21.9	11.7	3.6	
20	1.4	5.0	14.7	32.4	75.3	93.6	128.0	261.3	261.3	128.0	93.6	75.3	32.4	14.7	5.0	1.4
10		6.0	16.4	46.7	82.7	120.5	762.3	2258.9	2258.9	762.3	120.5	82.7	46.7	16.4	6.0	
0	1.7	6.6	17.2	54.1	84.3	240.8	2201.5	6191.2	6191.2	2201.5	240.8	84.3	54.1	17.2	6.6	1.7
-10		6.6	17.2	54.1	84.3	240.8	2201.5	6191.2	6191.2	2201.5	240.8	84.3	54.1	17.2	6.6	
-20	1.4	6.0	16.4	46.7	82.7	120.5	762.3	2258.9	2258.9	762.3	120.5	82.7	46.7	16.4	6.0	1.4
-30		5.0	14.7	32.4	75.3	93.6	128.0	261.3	261.3	128.0	93.6	75.3	32.4	14.7	5.0	
-40	0.6	3.6	11.7	21.9	48.4	83.2	97.4	102.5	102.5	97.4	83.2	48.4	21.9	11.7	3.6	0.6
-50		2.1	7.8	16.6	25.4	41.1	62.9	75.3	75.3	62.9	41.1	25.4	16.6	7.8	2.1	
-60	0.2	0.8	4.0	9.6	16.6	23.1	27.5	29.7	29.7	27.5	23.1	16.6	9.6	4.0	0.8	0.2
-70		0.3	1.1	3.4	6.8	10.4	13.4	15.0	15.0	13.4	10.4	6.8	3.4	1.1	0.3	
-80																
-90	0.1	0.6		1.9		4.7		6.3		4.7		1.9		0.6		0.1

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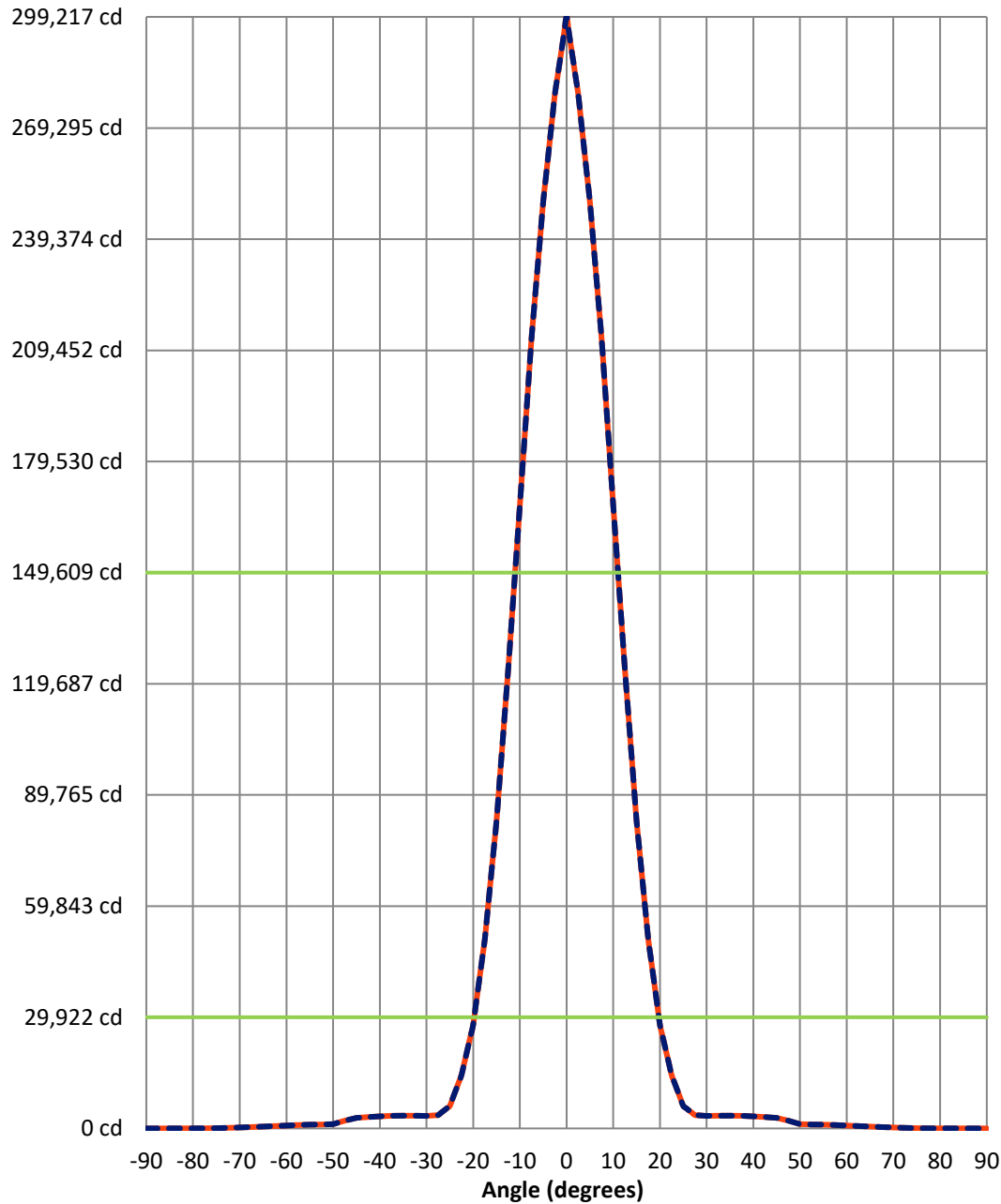
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 22°
 Lumens: 23821.3
 Efficiency: 44.2%

Field:
 H Angle: 39.6°
 V Angle: 39.6°
 Lumens: 44241.9
 Efficiency: 82.1%

Spill:
 Lumens: 9656.5
 Efficiency: 17.9%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
85°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
82.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.0	6.3
80°	0.0	1.0	1.9	2.9	3.9	4.8	5.7	6.2	6.6	7.1	7.5
77.5°	0.0	1.2	2.4	3.6	4.8	5.8	6.4	7.0	7.6	8.1	8.8
75°	0.0	1.4	2.9	4.3	5.7	6.4	7.1	7.8	8.5	9.4	10.3
72.5°	0.0	1.7	3.4	5.0	6.2	7.0	7.8	8.7	9.7	10.8	11.8
70°	0.0	1.9	3.8	5.7	6.6	7.6	8.5	9.7	10.9	12.2	14.2
67.5°	0.0	2.1	4.3	6.0	7.1	8.1	9.4	10.8	12.2	14.5	16.8
65°	0.0	2.4	4.7	6.3	7.5	8.8	10.3	11.8	14.2	16.8	19.9
62.5°	0.0	2.6	5.2	6.7	8.0	9.5	11.2	13.4	16.2	19.4	24.2
60°	0.0	2.8	5.6	7.0	8.4	10.2	12.0	15.1	18.2	23.2	28.5
57.5°	0.0	3.0	5.8	7.3	8.9	10.9	13.4	16.8	21.2	27.0	39.3
55°	0.0	3.2	6.0	7.6	9.5	11.6	14.8	18.4	24.5	32.5	53.1
52.5°	0.0	3.4	6.2	7.9	10.0	12.3	16.2	21.1	27.6	44.6	66.5
50°	0.0	3.6	6.4	8.2	10.5	13.4	17.5	23.7	32.8	56.3	93.2
47.5°	0.0	3.8	6.6	8.5	11.0	14.5	18.9	26.3	42.9	67.6	120.6
45°	0.0	4.0	6.8	8.8	11.4	15.5	21.0	28.8	52.6	91.1	147.1
42.5°	0.0	4.1	6.9	9.2	11.9	16.5	23.1	34.5	61.9	113.9	177.9
40°	0.0	4.3	7.1	9.5	12.5	17.4	25.0	42.3	74.2	135.8	208.2
37.5°	0.0	4.4	7.2	9.8	13.2	18.3	26.9	49.6	92.6	158.0	237.2
35°	0.0	4.6	7.4	10.1	13.9	19.6	28.6	56.6	110.0	182.6	265.2
32.5°	0.0	4.7	7.5	10.4	14.5	20.9	31.5	63.2	126.4	205.7	292.5
30°	0.0	4.8	7.6	10.6	15.1	22.2	36.7	71.0	141.8	227.4	318.1
27.5°	0.0	5.0	7.8	10.8	15.6	23.4	41.6	83.5	157.4	247.6	341.9
25°	0.0	5.1	7.9	11.1	16.1	24.5	46.0	94.9	173.8	266.9	364.1
22.5°	0.0	5.2	8.0	11.3	16.6	25.5	50.1	105.4	188.8	284.8	389.0
20°	0.0	5.3	8.1	11.4	17.0	26.4	53.8	114.8	202.3	301.0	411.5
17.5°	0.0	5.3	8.1	11.6	17.4	27.2	57.1	123.1	214.3	315.3	431.6
15°	0.0	5.4	8.2	11.7	17.7	27.9	59.9	130.4	224.8	327.9	449.0
12.5°	0.0	5.5	8.3	11.8	18.0	28.5	62.4	136.6	233.7	338.5	463.9
10°	0.0	5.5	8.3	11.9	18.2	28.9	64.3	141.7	241.0	347.3	476.1
7.5°	0.0	5.6	8.4	12.0	18.4	29.3	65.9	145.7	246.7	354.2	485.7
5°	0.0	5.6	8.4	12.1	18.5	29.6	67.0	148.5	250.8	359.1	492.5
2.5°	0.0	5.6	8.4	12.1	18.6	29.7	67.7	150.2	253.3	362.0	496.6
0°	0.0	5.6	8.4	12.1	18.6	29.7	67.7	150.2	253.3	362.0	496.6
-2.5°	0.0	5.6	8.4	12.1	18.6	29.7	67.7	150.2	253.3	362.0	496.6
-5°	0.0	5.6	8.4	12.1	18.5	29.6	67.0	148.5	250.8	359.1	492.5
-7.5°	0.0	5.6	8.4	12.0	18.4	29.3	65.9	145.7	246.7	354.2	485.7
-10°	0.0	5.5	8.3	11.9	18.2	28.9	64.3	141.7	241.0	347.3	476.1
-12.5°	0.0	5.5	8.3	11.8	18.0	28.5	62.4	136.6	233.7	338.5	463.9
-15°	0.0	5.4	8.2	11.7	17.7	27.9	59.9	130.4	224.8	327.9	449.0
-17.5°	0.0	5.3	8.1	11.6	17.4	27.2	57.1	123.1	214.3	315.3	431.6
-20°	0.0	5.3	8.1	11.4	17.0	26.4	53.8	114.8	202.3	301.0	411.5



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.2	8.0	11.3	16.6	25.5	50.1	105.4	188.8	284.8	389.0
-25°	0.0	5.1	7.9	11.1	16.1	24.5	46.0	94.9	173.8	266.9	364.1
-27.5°	0.0	5.0	7.8	10.8	15.6	23.4	41.6	83.5	157.4	247.6	341.9
-30°	0.0	4.8	7.6	10.6	15.1	22.2	36.7	71.0	141.8	227.4	318.1
-32.5°	0.0	4.7	7.5	10.4	14.5	20.9	31.5	63.2	126.4	205.7	292.5
-35°	0.0	4.6	7.4	10.1	13.9	19.6	28.6	56.6	110.0	182.6	265.2
-37.5°	0.0	4.4	7.2	9.8	13.2	18.3	26.9	49.6	92.6	158.0	237.2
-40°	0.0	4.3	7.1	9.5	12.5	17.4	25.0	42.3	74.2	135.8	208.2
-42.5°	0.0	4.1	6.9	9.2	11.9	16.5	23.1	34.5	61.9	113.9	177.9
-45°	0.0	4.0	6.8	8.8	11.4	15.5	21.0	28.8	52.6	91.1	147.1
-47.5°	0.0	3.8	6.6	8.5	11.0	14.5	18.9	26.3	42.9	67.6	120.6
-50°	0.0	3.6	6.4	8.2	10.5	13.4	17.5	23.7	32.8	56.3	93.2
-52.5°	0.0	3.4	6.2	7.9	10.0	12.3	16.2	21.1	27.6	44.6	66.5
-55°	0.0	3.2	6.0	7.6	9.5	11.6	14.8	18.4	24.5	32.5	53.1
-57.5°	0.0	3.0	5.8	7.3	8.9	10.9	13.4	16.8	21.2	27.0	39.3
-60°	0.0	2.8	5.6	7.0	8.4	10.2	12.0	15.1	18.2	23.2	28.5
-62.5°	0.0	2.6	5.2	6.7	8.0	9.5	11.2	13.4	16.2	19.4	24.2
-65°	0.0	2.4	4.7	6.3	7.5	8.8	10.3	11.8	14.2	16.8	19.9
-67.5°	0.0	2.1	4.3	6.0	7.1	8.1	9.4	10.8	12.2	14.5	16.8
-70°	0.0	1.9	3.8	5.7	6.6	7.6	8.5	9.7	10.9	12.2	14.2
-72.5°	0.0	1.7	3.4	5.0	6.2	7.0	7.8	8.7	9.7	10.8	11.8
-75°	0.0	1.4	2.9	4.3	5.7	6.4	7.1	7.8	8.5	9.4	10.3
-77.5°	0.0	1.2	2.4	3.6	4.8	5.8	6.4	7.0	7.6	8.1	8.8
-80°	0.0	1.0	1.9	2.9	3.9	4.8	5.7	6.2	6.6	7.1	7.5
-82.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.0	6.3
-85°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	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	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
85°	5.2	5.6	5.8	6.0	6.2	6.4	6.6	6.8	6.9	7.1	7.2
82.5°	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5	9.8
80°	8.0	8.4	8.9	9.5	10.0	10.5	11.0	11.4	11.9	12.5	13.2
77.5°	9.5	10.2	10.9	11.6	12.3	13.4	14.5	15.5	16.5	17.4	18.3
75°	11.2	12.0	13.4	14.8	16.2	17.5	18.9	21.0	23.1	25.0	26.9
72.5°	13.4	15.1	16.8	18.4	21.1	23.7	26.3	28.8	34.5	42.3	49.6
70°	16.2	18.2	21.2	24.5	27.6	32.8	42.9	52.6	61.9	74.2	92.6
67.5°	19.4	23.2	27.0	32.5	44.6	56.3	67.6	91.1	113.9	135.8	158.0
65°	24.2	28.5	39.3	53.1	66.5	93.2	120.6	147.1	177.9	208.2	237.2
62.5°	29.0	42.7	58.2	79.8	111.9	143.0	178.8	215.1	250.1	285.2	319.0
60°	42.7	59.9	87.3	123.1	159.9	202.3	243.5	284.8	325.2	364.1	410.0
57.5°	58.2	87.3	126.9	169.4	216.6	263.0	310.0	355.6	408.2	460.5	511.0
55°	79.8	123.1	169.4	221.4	273.1	325.3	379.2	440.1	498.9	557.8	614.2
52.5°	111.9	159.9	216.6	273.1	330.4	391.9	459.4	525.9	591.8	654.5	713.0
50°	143.0	202.3	263.0	325.3	391.9	465.8	539.5	612.3	681.1	746.4	811.9
47.5°	178.8	243.5	310.0	379.2	459.4	539.5	619.2	694.5	766.7	841.3	913.5
45°	215.1	284.8	355.6	440.1	525.9	612.3	694.5	773.5	856.1	930.8	984.6
42.5°	250.1	325.2	408.2	498.9	591.8	681.1	766.7	856.1	936.1	995.3	1029.7
40°	285.2	364.1	460.5	557.8	654.5	746.4	841.3	930.8	995.3	1031.3	1049.1
37.5°	319.0	410.0	511.0	614.2	713.0	811.9	913.5	984.6	1029.7	1049.1	1116.7
35°	351.0	453.6	560.5	666.8	768.7	876.4	963.4	1024.9	1045.9	1110.5	1357.3
32.5°	385.6	494.9	607.4	715.8	825.3	932.0	1009.5	1039.4	1092.0	1251.7	1898.8
30°	420.8	535.0	651.0	761.8	879.0	972.5	1029.8	1061.6	1146.5	1737.2	2353.6
27.5°	453.6	572.6	690.5	807.3	926.1	1010.5	1041.9	1109.5	1471.6	2175.3	2752.0
25°	483.9	607.4	727.1	850.2	958.7	1027.7	1061.3	1154.3	1872.9	2525.0	2921.3
22.5°	512.2	639.2	760.7	889.6	988.7	1037.3	1099.6	1452.3	2214.3	2838.8	3025.1
20°	538.2	666.8	792.3	923.4	1015.9	1045.9	1134.5	1766.9	2490.2	2927.4	3110.3
17.5°	561.4	691.4	821.5	945.6	1026.1	1063.7	1203.1	2049.4	2738.5	3007.3	3182.6
15°	581.6	713.0	846.9	965.1	1032.3	1089.0	1432.4	2258.0	2871.0	3074.7	3246.3
12.5°	598.9	731.3	868.7	981.8	1037.7	1110.6	1628.9	2431.4	2927.1	3125.6	3291.5
10°	613.1	746.4	886.6	995.5	1042.1	1128.5	1791.3	2575.0	2973.6	3168.0	3329.1
7.5°	624.2	758.2	900.6	1006.3	1045.5	1142.5	1918.8	2687.8	3010.1	3201.3	3358.8
5°	632.1	766.7	910.6	1014.0	1048.0	1152.6	2010.4	2769.0	3036.5	3225.4	3380.2
2.5°	636.9	771.8	916.7	1018.7	1049.5	1158.7	2065.7	2817.9	3052.4	3239.9	3393.2
0°	638.5	773.5	918.7	1020.2	1050.0	1160.7	2084.1	2834.3	3057.7	3244.8	3397.5
-2.5°	636.9	771.8	916.7	1018.7	1049.5	1158.7	2065.7	2817.9	3052.4	3239.9	3393.2
-5°	632.1	766.7	910.6	1014.0	1048.0	1152.6	2010.4	2769.0	3036.5	3225.4	3380.2
-7.5°	624.2	758.2	900.6	1006.3	1045.5	1142.5	1918.8	2687.8	3010.1	3201.3	3358.8
-10°	613.1	746.4	886.6	995.5	1042.1	1128.5	1791.3	2575.0	2973.6	3168.0	3329.1
-12.5°	598.9	731.3	868.7	981.8	1037.7	1110.6	1628.9	2431.4	2927.1	3125.6	3291.5
-15°	581.6	713.0	846.9	965.1	1032.3	1089.0	1432.4	2258.0	2871.0	3074.7	3246.3
-17.5°	561.4	691.4	821.5	945.6	1026.1	1063.7	1203.1	2049.4	2738.5	3007.3	3182.6
-20°	538.2	666.8	792.3	923.4	1015.9	1045.9	1134.5	1766.9	2490.2	2927.4	3110.3



REPORT NUMBER: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	512.2	639.2	760.7	889.6	988.7	1037.3	1099.6	1452.3	2214.3	2838.8	3025.1
-25°	483.9	607.4	727.1	850.2	958.7	1027.7	1061.3	1154.3	1872.9	2525.0	2921.3
-27.5°	453.6	572.6	690.5	807.3	926.1	1010.5	1041.9	1109.5	1471.6	2175.3	2752.0
-30°	420.8	535.0	651.0	761.8	879.0	972.5	1029.8	1061.6	1146.5	1737.2	2353.6
-32.5°	385.6	494.9	607.4	715.8	825.3	932.0	1009.5	1039.4	1092.0	1251.7	1898.8
-35°	351.0	453.6	560.5	666.8	768.7	876.4	963.4	1024.9	1045.9	1110.5	1357.3
-37.5°	319.0	410.0	511.0	614.2	713.0	811.9	913.5	984.6	1029.7	1049.1	1116.7
-40°	285.2	364.1	460.5	557.8	654.5	746.4	841.3	930.8	995.3	1031.3	1049.1
-42.5°	250.1	325.2	408.2	498.9	591.8	681.1	766.7	856.1	936.1	995.3	1029.7
-45°	215.1	284.8	355.6	440.1	525.9	612.3	694.5	773.5	856.1	930.8	984.6
-47.5°	178.8	243.5	310.0	379.2	459.4	539.5	619.2	694.5	766.7	841.3	913.5
-50°	143.0	202.3	263.0	325.3	391.9	465.8	539.5	612.3	681.1	746.4	811.9
-52.5°	111.9	159.9	216.6	273.1	330.4	391.9	459.4	525.9	591.8	654.5	713.0
-55°	79.8	123.1	169.4	221.4	273.1	325.3	379.2	440.1	498.9	557.8	614.2
-57.5°	58.2	87.3	126.9	169.4	216.6	263.0	310.0	355.6	408.2	460.5	511.0
-60°	42.7	59.9	87.3	123.1	159.9	202.3	243.5	284.8	325.2	364.1	410.0
-62.5°	29.0	42.7	58.2	79.8	111.9	143.0	178.8	215.1	250.1	285.2	319.0
-65°	24.2	28.5	39.3	53.1	66.5	93.2	120.6	147.1	177.9	208.2	237.2
-67.5°	19.4	23.2	27.0	32.5	44.6	56.3	67.6	91.1	113.9	135.8	158.0
-70°	16.2	18.2	21.2	24.5	27.6	32.8	42.9	52.6	61.9	74.2	92.6
-72.5°	13.4	15.1	16.8	18.4	21.1	23.7	26.3	28.8	34.5	42.3	49.6
-75°	11.2	12.0	13.4	14.8	16.2	17.5	18.9	21.0	23.1	25.0	26.9
-77.5°	9.5	10.2	10.9	11.6	12.3	13.4	14.5	15.5	16.5	17.4	18.3
-80°	8.0	8.4	8.9	9.5	10.0	10.5	11.0	11.4	11.9	12.5	13.2
-82.5°	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5	9.8
-85°	5.2	5.6	5.8	6.0	6.2	6.4	6.6	6.8	6.9	7.1	7.2
-87.5°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
-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: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
85°	7.4	7.5	7.6	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3
82.5°	10.1	10.4	10.6	10.8	11.1	11.3	11.4	11.6	11.7	11.8	11.9
80°	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.0	18.2
77.5°	19.6	20.9	22.2	23.4	24.5	25.5	26.4	27.2	27.9	28.5	28.9
75°	28.6	31.5	36.7	41.6	46.0	50.1	53.8	57.1	59.9	62.4	64.3
72.5°	56.6	63.2	71.0	83.5	94.9	105.4	114.8	123.1	130.4	136.6	141.7
70°	110.0	126.4	141.8	157.4	173.8	188.8	202.3	214.3	224.8	233.7	241.0
67.5°	182.6	205.7	227.4	247.6	266.9	284.8	301.0	315.3	327.9	338.5	347.3
65°	265.2	292.5	318.1	341.9	364.1	389.0	411.5	431.6	449.0	463.9	476.1
62.5°	351.0	385.6	420.8	453.6	483.9	512.2	538.2	561.4	581.6	598.9	613.1
60°	453.6	494.9	535.0	572.6	607.4	639.2	666.8	691.4	713.0	731.3	746.4
57.5°	560.5	607.4	651.0	690.5	727.1	760.7	792.3	821.5	846.9	868.7	886.6
55°	666.8	715.8	761.8	807.3	850.2	889.6	923.4	945.6	965.1	981.8	995.5
52.5°	768.7	825.3	879.0	926.1	958.7	988.7	1015.9	1026.1	1032.3	1037.7	1042.1
50°	876.4	932.0	972.5	1010.5	1027.7	1037.3	1045.9	1063.7	1089.0	1110.6	1128.5
47.5°	963.4	1009.5	1029.8	1041.9	1061.3	1099.6	1134.5	1203.1	1432.4	1628.9	1791.3
45°	1024.9	1039.4	1061.6	1109.5	1154.3	1452.3	1766.9	2049.4	2258.0	2431.4	2575.0
42.5°	1045.9	1092.0	1146.5	1471.6	1872.9	2214.3	2490.2	2738.5	2871.0	2927.1	2973.6
40°	1110.5	1251.7	1737.2	2175.3	2525.0	2838.8	2927.4	3007.3	3074.7	3125.6	3168.0
37.5°	1357.3	1898.8	2353.6	2752.0	2921.3	3025.1	3110.3	3182.6	3246.3	3291.5	3329.1
35°	1953.0	2443.8	2851.0	2977.4	3090.4	3183.6	3265.1	3328.7	3385.4	3404.9	3413.2
32.5°	2443.8	2864.8	3005.9	3127.0	3233.7	3317.3	3392.8	3410.4	3422.7	3427.6	3426.5
30°	2851.0	3005.9	3139.3	3256.4	3349.3	3405.4	3421.7	3427.2	3425.6	3419.5	3401.9
27.5°	2977.4	3127.0	3256.4	3360.0	3409.8	3428.1	3426.0	3418.5	3392.4	3369.6	3445.8
25°	3090.4	3233.7	3349.3	3409.8	3427.9	3425.4	3404.9	3373.7	3465.4	3564.7	4268.9
22.5°	3183.6	3317.3	3405.4	3428.1	3425.4	3400.3	3391.0	3525.1	4251.5	5470.8	7650.3
20°	3265.1	3392.8	3421.7	3426.0	3404.9	3391.0	3545.3	4728.9	6658.4	11204.3	15613.0
17.5°	3328.7	3410.4	3427.2	3418.5	3373.7	3525.1	4728.9	7527.3	13046.9	20360.5	27470.3
15°	3385.4	3422.7	3425.6	3392.4	3465.4	4251.5	6658.4	13046.9	21988.9	33114.5	46658.6
12.5°	3404.9	3427.6	3419.5	3369.6	3564.7	5470.8	11204.3	20360.5	33114.5	49948.2	70561.6
10°	3413.2	3426.5	3401.9	3445.8	4268.9	7650.3	15613.0	27470.3	46658.6	70561.6	96366.3
7.5°	3419.7	3425.6	3387.9	3507.1	5028.6	10515.8	20823.3	37171.8	60710.0	89657.8	123909.8
5°	3424.4	3425.0	3377.8	3551.9	5585.4	12628.4	24694.3	44677.8	72657.8	107231.7	147176.2
2.5°	3427.2	3424.6	3371.6	3579.1	5925.6	13924.5	27083.0	49347.5	80180.5	119236.8	162346.7
0°	3428.2	3424.5	3369.5	3588.3	6040.0	14361.5	27890.9	50934.1	82753.9	123507.7	167666.4
-2.5°	3427.2	3424.6	3371.6	3579.1	5925.6	13924.5	27083.0	49347.5	80180.5	119236.8	162346.7
-5°	3424.4	3425.0	3377.8	3551.9	5585.4	12628.4	24694.3	44677.8	72657.8	107231.7	147176.2
-7.5°	3419.7	3425.6	3387.9	3507.1	5028.6	10515.8	20823.3	37171.8	60710.0	89657.8	123909.8
-10°	3413.2	3426.5	3401.9	3445.8	4268.9	7650.3	15613.0	27470.3	46658.6	70561.6	96366.3
-12.5°	3404.9	3427.6	3419.5	3369.6	3564.7	5470.8	11204.3	20360.5	33114.5	49948.2	70561.6
-15°	3385.4	3422.7	3425.6	3392.4	3465.4	4251.5	6658.4	13046.9	21988.9	33114.5	46658.6
-17.5°	3328.7	3410.4	3427.2	3418.5	3373.7	3525.1	4728.9	7527.3	13046.9	20360.5	27470.3
-20°	3265.1	3392.8	3421.7	3426.0	3404.9	3391.0	3545.3	4728.9	6658.4	11204.3	15613.0



REPORT NUMBER: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3183.6	3317.3	3405.4	3428.1	3425.4	3400.3	3391.0	3525.1	4251.5	5470.8	7650.3
-25°	3090.4	3233.7	3349.3	3409.8	3427.9	3425.4	3404.9	3373.7	3465.4	3564.7	4268.9
-27.5°	2977.4	3127.0	3256.4	3360.0	3409.8	3428.1	3426.0	3418.5	3392.4	3369.6	3445.8
-30°	2851.0	3005.9	3139.3	3256.4	3349.3	3405.4	3421.7	3427.2	3425.6	3419.5	3401.9
-32.5°	2443.8	2864.8	3005.9	3127.0	3233.7	3317.3	3392.8	3410.4	3422.7	3427.6	3426.5
-35°	1953.0	2443.8	2851.0	2977.4	3090.4	3183.6	3265.1	3328.7	3385.4	3404.9	3413.2
-37.5°	1357.3	1898.8	2353.6	2752.0	2921.3	3025.1	3110.3	3182.6	3246.3	3291.5	3329.1
-40°	1110.5	1251.7	1737.2	2175.3	2525.0	2838.8	2927.4	3007.3	3074.7	3125.6	3168.0
-42.5°	1045.9	1092.0	1146.5	1471.6	1872.9	2214.3	2490.2	2738.5	2871.0	2927.1	2973.6
-45°	1024.9	1039.4	1061.6	1109.5	1154.3	1452.3	1766.9	2049.4	2258.0	2431.4	2575.0
-47.5°	963.4	1009.5	1029.8	1041.9	1061.3	1099.6	1134.5	1203.1	1432.4	1628.9	1791.3
-50°	876.4	932.0	972.5	1010.5	1027.7	1037.3	1045.9	1063.7	1089.0	1110.6	1128.5
-52.5°	768.7	825.3	879.0	926.1	958.7	988.7	1015.9	1026.1	1032.3	1037.7	1042.1
-55°	666.8	715.8	761.8	807.3	850.2	889.6	923.4	945.6	965.1	981.8	995.5
-57.5°	560.5	607.4	651.0	690.5	727.1	760.7	792.3	821.5	846.9	868.7	886.6
-60°	453.6	494.9	535.0	572.6	607.4	639.2	666.8	691.4	713.0	731.3	746.4
-62.5°	351.0	385.6	420.8	453.6	483.9	512.2	538.2	561.4	581.6	598.9	613.1
-65°	265.2	292.5	318.1	341.9	364.1	389.0	411.5	431.6	449.0	463.9	476.1
-67.5°	182.6	205.7	227.4	247.6	266.9	284.8	301.0	315.3	327.9	338.5	347.3
-70°	110.0	126.4	141.8	157.4	173.8	188.8	202.3	214.3	224.8	233.7	241.0
-72.5°	56.6	63.2	71.0	83.5	94.9	105.4	114.8	123.1	130.4	136.6	141.7
-75°	28.6	31.5	36.7	41.6	46.0	50.1	53.8	57.1	59.9	62.4	64.3
-77.5°	19.6	20.9	22.2	23.4	24.5	25.5	26.4	27.2	27.9	28.5	28.9
-80°	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.0	18.2
-82.5°	10.1	10.4	10.6	10.8	11.1	11.3	11.4	11.6	11.7	11.8	11.9
-85°	7.4	7.5	7.6	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3
-87.5°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
-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: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.1
82.5°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.8	11.7	11.6
80°	18.4	18.5	18.6	18.6	18.6	18.5	18.4	18.2	18.0	17.7	17.4
77.5°	29.3	29.6	29.7	29.8	29.7	29.6	29.3	28.9	28.5	27.9	27.2
75°	65.9	67.0	67.7	67.9	67.7	67.0	65.9	64.3	62.4	59.9	57.1
72.5°	145.7	148.5	150.2	150.8	150.2	148.5	145.7	141.7	136.6	130.4	123.1
70°	246.7	250.8	253.3	254.1	253.3	250.8	246.7	241.0	233.7	224.8	214.3
67.5°	354.2	359.1	362.0	363.0	362.0	359.1	354.2	347.3	338.5	327.9	315.3
65°	485.7	492.5	496.6	498.0	496.6	492.5	485.7	476.1	463.9	449.0	431.6
62.5°	624.2	632.1	636.9	638.5	636.9	632.1	624.2	613.1	598.9	581.6	561.4
60°	758.2	766.7	771.8	773.5	771.8	766.7	758.2	746.4	731.3	713.0	691.4
57.5°	900.6	910.6	916.7	918.7	916.7	910.6	900.6	886.6	868.7	846.9	821.5
55°	1006.3	1014.0	1018.7	1020.2	1018.7	1014.0	1006.3	995.5	981.8	965.1	945.6
52.5°	1045.5	1048.0	1049.5	1050.0	1049.5	1048.0	1045.5	1042.1	1037.7	1032.3	1026.1
50°	1142.5	1152.6	1158.7	1160.7	1158.7	1152.6	1142.5	1128.5	1110.6	1089.0	1063.7
47.5°	1918.8	2010.4	2065.7	2084.1	2065.7	2010.4	1918.8	1791.3	1628.9	1432.4	1203.1
45°	2687.8	2769.0	2817.9	2834.3	2817.9	2769.0	2687.8	2575.0	2431.4	2258.0	2049.4
42.5°	3010.1	3036.5	3052.4	3057.7	3052.4	3036.5	3010.1	2973.6	2927.1	2871.0	2738.5
40°	3201.3	3225.4	3239.9	3244.8	3239.9	3225.4	3201.3	3168.0	3125.6	3074.7	3007.3
37.5°	3358.8	3380.2	3393.2	3397.5	3393.2	3380.2	3358.8	3329.1	3291.5	3246.3	3182.6
35°	3419.7	3424.4	3427.2	3428.2	3427.2	3424.4	3419.7	3413.2	3404.9	3385.4	3328.7
32.5°	3425.6	3425.0	3424.6	3424.5	3424.6	3425.0	3425.6	3426.5	3427.6	3422.7	3410.4
30°	3387.9	3377.8	3371.6	3369.5	3371.6	3377.8	3387.9	3401.9	3419.5	3425.6	3427.2
27.5°	3507.1	3551.9	3579.1	3588.3	3579.1	3551.9	3507.1	3445.8	3369.6	3392.4	3418.5
25°	5028.6	5585.4	5925.6	6040.0	5925.6	5585.4	5028.6	4268.9	3564.7	3465.4	3373.7
22.5°	10515.8	12628.4	13924.5	14361.5	13924.5	12628.4	10515.8	7650.3	5470.8	4251.5	3525.1
20°	20823.3	24694.3	27083.0	27890.9	27083.0	24694.3	20823.3	15613.0	11204.3	6658.4	4728.9
17.5°	37171.8	44677.8	49347.5	50934.1	49347.5	44677.8	37171.8	27470.3	20360.5	13046.9	7527.3
15°	60710.0	72657.8	80180.5	82753.9	80180.5	72657.8	60710.0	46658.6	33114.5	21988.9	13046.9
12.5°	89657.8	107231.7	119236.8	123507.7	119236.8	107231.7	89657.8	70561.6	49948.2	33114.5	20360.5
10°	123909.8	147176.2	162346.7	167666.4	162346.7	147176.2	123909.8	96366.3	70561.6	46658.6	27470.3
7.5°	157340.2	184962.6	205337.6	212711.7	205337.6	184962.6	157340.2	123909.8	89657.8	60710.0	37171.8
5°	184962.6	220633.9	242505.9	249419.6	242505.9	220633.9	184962.6	147176.2	107231.7	72657.8	44677.8
2.5°	205337.6	242505.9	266149.0	278408.4	266149.0	242505.9	205337.6	162346.7	119236.8	80180.5	49347.5
0°	212711.7	249419.6	278408.4	299217.2	278408.4	249419.6	212711.7	167666.4	123507.7	82753.9	50934.1
-2.5°	205337.6	242505.9	266149.0	278408.4	266149.0	242505.9	205337.6	162346.7	119236.8	80180.5	49347.5
-5°	184962.6	220633.9	242505.9	249419.6	242505.9	220633.9	184962.6	147176.2	107231.7	72657.8	44677.8
-7.5°	157340.2	184962.6	205337.6	212711.7	205337.6	184962.6	157340.2	123909.8	89657.8	60710.0	37171.8
-10°	123909.8	147176.2	162346.7	167666.4	162346.7	147176.2	123909.8	96366.3	70561.6	46658.6	27470.3
-12.5°	89657.8	107231.7	119236.8	123507.7	119236.8	107231.7	89657.8	70561.6	49948.2	33114.5	20360.5
-15°	60710.0	72657.8	80180.5	82753.9	80180.5	72657.8	60710.0	46658.6	33114.5	21988.9	13046.9
-17.5°	37171.8	44677.8	49347.5	50934.1	49347.5	44677.8	37171.8	27470.3	20360.5	13046.9	7527.3
-20°	20823.3	24694.3	27083.0	27890.9	27083.0	24694.3	20823.3	15613.0	11204.3	6658.4	4728.9



REPORT NUMBER: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10515.8	12628.4	13924.5	14361.5	13924.5	12628.4	10515.8	7650.3	5470.8	4251.5	3525.1
-25°	5028.6	5585.4	5925.6	6040.0	5925.6	5585.4	5028.6	4268.9	3564.7	3465.4	3373.7
-27.5°	3507.1	3551.9	3579.1	3588.3	3579.1	3551.9	3507.1	3445.8	3369.6	3392.4	3418.5
-30°	3387.9	3377.8	3371.6	3369.5	3371.6	3377.8	3387.9	3401.9	3419.5	3425.6	3427.2
-32.5°	3425.6	3425.0	3424.6	3424.5	3424.6	3425.0	3425.6	3426.5	3427.6	3422.7	3410.4
-35°	3419.7	3424.4	3427.2	3428.2	3427.2	3424.4	3419.7	3413.2	3404.9	3385.4	3328.7
-37.5°	3358.8	3380.2	3393.2	3397.5	3393.2	3380.2	3358.8	3329.1	3291.5	3246.3	3182.6
-40°	3201.3	3225.4	3239.9	3244.8	3239.9	3225.4	3201.3	3168.0	3125.6	3074.7	3007.3
-42.5°	3010.1	3036.5	3052.4	3057.7	3052.4	3036.5	3010.1	2973.6	2927.1	2871.0	2738.5
-45°	2687.8	2769.0	2817.9	2834.3	2817.9	2769.0	2687.8	2575.0	2431.4	2258.0	2049.4
-47.5°	1918.8	2010.4	2065.7	2084.1	2065.7	2010.4	1918.8	1791.3	1628.9	1432.4	1203.1
-50°	1142.5	1152.6	1158.7	1160.7	1158.7	1152.6	1142.5	1128.5	1110.6	1089.0	1063.7
-52.5°	1045.5	1048.0	1049.5	1050.0	1049.5	1048.0	1045.5	1042.1	1037.7	1032.3	1026.1
-55°	1006.3	1014.0	1018.7	1020.2	1018.7	1014.0	1006.3	995.5	981.8	965.1	945.6
-57.5°	900.6	910.6	916.7	918.7	916.7	910.6	900.6	886.6	868.7	846.9	821.5
-60°	758.2	766.7	771.8	773.5	771.8	766.7	758.2	746.4	731.3	713.0	691.4
-62.5°	624.2	632.1	636.9	638.5	636.9	632.1	624.2	613.1	598.9	581.6	561.4
-65°	485.7	492.5	496.6	498.0	496.6	492.5	485.7	476.1	463.9	449.0	431.6
-67.5°	354.2	359.1	362.0	363.0	362.0	359.1	354.2	347.3	338.5	327.9	315.3
-70°	246.7	250.8	253.3	254.1	253.3	250.8	246.7	241.0	233.7	224.8	214.3
-72.5°	145.7	148.5	150.2	150.8	150.2	148.5	145.7	141.7	136.6	130.4	123.1
-75°	65.9	67.0	67.7	67.9	67.7	67.0	65.9	64.3	62.4	59.9	57.1
-77.5°	29.3	29.6	29.7	29.8	29.7	29.6	29.3	28.9	28.5	27.9	27.2
-80°	18.4	18.5	18.6	18.6	18.6	18.5	18.4	18.2	18.0	17.7	17.4
-82.5°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.8	11.7	11.6
-85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.1
-87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
-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):

	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°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
85°	8.1	8.0	7.9	7.8	7.6	7.5	7.4	7.2	7.1	6.9	6.8
82.5°	11.4	11.3	11.1	10.8	10.6	10.4	10.1	9.8	9.5	9.2	8.8
80°	17.0	16.6	16.1	15.6	15.1	14.5	13.9	13.2	12.5	11.9	11.4
77.5°	26.4	25.5	24.5	23.4	22.2	20.9	19.6	18.3	17.4	16.5	15.5
75°	53.8	50.1	46.0	41.6	36.7	31.5	28.6	26.9	25.0	23.1	21.0
72.5°	114.8	105.4	94.9	83.5	71.0	63.2	56.6	49.6	42.3	34.5	28.8
70°	202.3	188.8	173.8	157.4	141.8	126.4	110.0	92.6	74.2	61.9	52.6
67.5°	301.0	284.8	266.9	247.6	227.4	205.7	182.6	158.0	135.8	113.9	91.1
65°	411.5	389.0	364.1	341.9	318.1	292.5	265.2	237.2	208.2	177.9	147.1
62.5°	538.2	512.2	483.9	453.6	420.8	385.6	351.0	319.0	285.2	250.1	215.1
60°	666.8	639.2	607.4	572.6	535.0	494.9	453.6	410.0	364.1	325.2	284.8
57.5°	792.3	760.7	727.1	690.5	651.0	607.4	560.5	511.0	460.5	408.2	355.6
55°	923.4	889.6	850.2	807.3	761.8	715.8	666.8	614.2	557.8	498.9	440.1
52.5°	1015.9	988.7	958.7	926.1	879.0	825.3	768.7	713.0	654.5	591.8	525.9
50°	1045.9	1037.3	1027.7	1010.5	972.5	932.0	876.4	811.9	746.4	681.1	612.3
47.5°	1134.5	1099.6	1061.3	1041.9	1029.8	1009.5	963.4	913.5	841.3	766.7	694.5
45°	1766.9	1452.3	1154.3	1109.5	1061.6	1039.4	1024.9	984.6	930.8	856.1	773.5
42.5°	2490.2	2214.3	1872.9	1471.6	1146.5	1092.0	1045.9	1029.7	995.3	936.1	856.1
40°	2927.4	2838.8	2525.0	2175.3	1737.2	1251.7	1110.5	1049.1	1031.3	995.3	930.8
37.5°	3110.3	3025.1	2921.3	2752.0	2353.6	1898.8	1357.3	1116.7	1049.1	1029.7	984.6
35°	3265.1	3183.6	3090.4	2977.4	2851.0	2443.8	1953.0	1357.3	1110.5	1045.9	1024.9
32.5°	3392.8	3317.3	3233.7	3127.0	3005.9	2864.8	2443.8	1898.8	1251.7	1092.0	1039.4
30°	3421.7	3405.4	3349.3	3256.4	3139.3	3005.9	2851.0	2353.6	1737.2	1146.5	1061.6
27.5°	3426.0	3428.1	3409.8	3360.0	3256.4	3127.0	2977.4	2752.0	2175.3	1471.6	1109.5
25°	3404.9	3425.4	3427.9	3409.8	3349.3	3233.7	3090.4	2921.3	2525.0	1872.9	1154.3
22.5°	3391.0	3400.3	3425.4	3428.1	3405.4	3317.3	3183.6	3025.1	2838.8	2214.3	1452.3
20°	3545.3	3391.0	3404.9	3426.0	3421.7	3392.8	3265.1	3110.3	2927.4	2490.2	1766.9
17.5°	4728.9	3525.1	3373.7	3418.5	3427.2	3410.4	3328.7	3182.6	3007.3	2738.5	2049.4
15°	6658.4	4251.5	3465.4	3392.4	3425.6	3422.7	3385.4	3246.3	3074.7	2871.0	2258.0
12.5°	11204.3	5470.8	3564.7	3369.6	3419.5	3427.6	3404.9	3291.5	3125.6	2927.1	2431.4
10°	15613.0	7650.3	4268.9	3445.8	3401.9	3426.5	3413.2	3329.1	3168.0	2973.6	2575.0
7.5°	20823.3	10515.8	5028.6	3507.1	3387.9	3425.6	3419.7	3358.8	3201.3	3010.1	2687.8
5°	24694.3	12628.4	5585.4	3551.9	3377.8	3425.0	3424.4	3380.2	3225.4	3036.5	2769.0
2.5°	27083.0	13924.5	5925.6	3579.1	3371.6	3424.6	3427.2	3393.2	3239.9	3052.4	2817.9
0°	27890.9	14361.5	6040.0	3588.3	3369.5	3424.5	3428.2	3397.5	3244.8	3057.7	2834.3
-2.5°	27083.0	13924.5	5925.6	3579.1	3371.6	3424.6	3427.2	3393.2	3239.9	3052.4	2817.9
-5°	24694.3	12628.4	5585.4	3551.9	3377.8	3425.0	3424.4	3380.2	3225.4	3036.5	2769.0
-7.5°	20823.3	10515.8	5028.6	3507.1	3387.9	3425.6	3419.7	3358.8	3201.3	3010.1	2687.8
-10°	15613.0	7650.3	4268.9	3445.8	3401.9	3426.5	3413.2	3329.1	3168.0	2973.6	2575.0
-12.5°	11204.3	5470.8	3564.7	3369.6	3419.5	3427.6	3404.9	3291.5	3125.6	2927.1	2431.4
-15°	6658.4	4251.5	3465.4	3392.4	3425.6	3422.7	3385.4	3246.3	3074.7	2871.0	2258.0
-17.5°	4728.9	3525.1	3373.7	3418.5	3427.2	3410.4	3328.7	3182.6	3007.3	2738.5	2049.4
-20°	3545.3	3391.0	3404.9	3426.0	3421.7	3392.8	3265.1	3110.3	2927.4	2490.2	1766.9



REPORT NUMBER: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3391.0	3400.3	3425.4	3428.1	3405.4	3317.3	3183.6	3025.1	2838.8	2214.3	1452.3
-25°	3404.9	3425.4	3427.9	3409.8	3349.3	3233.7	3090.4	2921.3	2525.0	1872.9	1154.3
-27.5°	3426.0	3428.1	3409.8	3360.0	3256.4	3127.0	2977.4	2752.0	2175.3	1471.6	1109.5
-30°	3421.7	3405.4	3349.3	3256.4	3139.3	3005.9	2851.0	2353.6	1737.2	1146.5	1061.6
-32.5°	3392.8	3317.3	3233.7	3127.0	3005.9	2864.8	2443.8	1898.8	1251.7	1092.0	1039.4
-35°	3265.1	3183.6	3090.4	2977.4	2851.0	2443.8	1953.0	1357.3	1110.5	1045.9	1024.9
-37.5°	3110.3	3025.1	2921.3	2752.0	2353.6	1898.8	1357.3	1116.7	1049.1	1029.7	984.6
-40°	2927.4	2838.8	2525.0	2175.3	1737.2	1251.7	1110.5	1049.1	1031.3	995.3	930.8
-42.5°	2490.2	2214.3	1872.9	1471.6	1146.5	1092.0	1045.9	1029.7	995.3	936.1	856.1
-45°	1766.9	1452.3	1154.3	1109.5	1061.6	1039.4	1024.9	984.6	930.8	856.1	773.5
-47.5°	1134.5	1099.6	1061.3	1041.9	1029.8	1009.5	963.4	913.5	841.3	766.7	694.5
-50°	1045.9	1037.3	1027.7	1010.5	972.5	932.0	876.4	811.9	746.4	681.1	612.3
-52.5°	1015.9	988.7	958.7	926.1	879.0	825.3	768.7	713.0	654.5	591.8	525.9
-55°	923.4	889.6	850.2	807.3	761.8	715.8	666.8	614.2	557.8	498.9	440.1
-57.5°	792.3	760.7	727.1	690.5	651.0	607.4	560.5	511.0	460.5	408.2	355.6
-60°	666.8	639.2	607.4	572.6	535.0	494.9	453.6	410.0	364.1	325.2	284.8
-62.5°	538.2	512.2	483.9	453.6	420.8	385.6	351.0	319.0	285.2	250.1	215.1
-65°	411.5	389.0	364.1	341.9	318.1	292.5	265.2	237.2	208.2	177.9	147.1
-67.5°	301.0	284.8	266.9	247.6	227.4	205.7	182.6	158.0	135.8	113.9	91.1
-70°	202.3	188.8	173.8	157.4	141.8	126.4	110.0	92.6	74.2	61.9	52.6
-72.5°	114.8	105.4	94.9	83.5	71.0	63.2	56.6	49.6	42.3	34.5	28.8
-75°	53.8	50.1	46.0	41.6	36.7	31.5	28.6	26.9	25.0	23.1	21.0
-77.5°	26.4	25.5	24.5	23.4	22.2	20.9	19.6	18.3	17.4	16.5	15.5
-80°	17.0	16.6	16.1	15.6	15.1	14.5	13.9	13.2	12.5	11.9	11.4
-82.5°	11.4	11.3	11.1	10.8	10.6	10.4	10.1	9.8	9.5	9.2	8.8
-85°	8.1	8.0	7.9	7.8	7.6	7.5	7.4	7.2	7.1	6.9	6.8
-87.5°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	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: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
85°	6.6	6.4	6.2	6.0	5.8	5.6	5.2	4.7	4.3	3.8	3.4
82.5°	8.5	8.2	7.9	7.6	7.3	7.0	6.7	6.3	6.0	5.7	5.0
80°	11.0	10.5	10.0	9.5	8.9	8.4	8.0	7.5	7.1	6.6	6.2
77.5°	14.5	13.4	12.3	11.6	10.9	10.2	9.5	8.8	8.1	7.6	7.0
75°	18.9	17.5	16.2	14.8	13.4	12.0	11.2	10.3	9.4	8.5	7.8
72.5°	26.3	23.7	21.1	18.4	16.8	15.1	13.4	11.8	10.8	9.7	8.7
70°	42.9	32.8	27.6	24.5	21.2	18.2	16.2	14.2	12.2	10.9	9.7
67.5°	67.6	56.3	44.6	32.5	27.0	23.2	19.4	16.8	14.5	12.2	10.8
65°	120.6	93.2	66.5	53.1	39.3	28.5	24.2	19.9	16.8	14.2	11.8
62.5°	178.8	143.0	111.9	79.8	58.2	42.7	29.0	24.2	19.4	16.2	13.4
60°	243.5	202.3	159.9	123.1	87.3	59.9	42.7	28.5	23.2	18.2	15.1
57.5°	310.0	263.0	216.6	169.4	126.9	87.3	58.2	39.3	27.0	21.2	16.8
55°	379.2	325.3	273.1	221.4	169.4	123.1	79.8	53.1	32.5	24.5	18.4
52.5°	459.4	391.9	330.4	273.1	216.6	159.9	111.9	66.5	44.6	27.6	21.1
50°	539.5	465.8	391.9	325.3	263.0	202.3	143.0	93.2	56.3	32.8	23.7
47.5°	619.2	539.5	459.4	379.2	310.0	243.5	178.8	120.6	67.6	42.9	26.3
45°	694.5	612.3	525.9	440.1	355.6	284.8	215.1	147.1	91.1	52.6	28.8
42.5°	766.7	681.1	591.8	498.9	408.2	325.2	250.1	177.9	113.9	61.9	34.5
40°	841.3	746.4	654.5	557.8	460.5	364.1	285.2	208.2	135.8	74.2	42.3
37.5°	913.5	811.9	713.0	614.2	511.0	410.0	319.0	237.2	158.0	92.6	49.6
35°	963.4	876.4	768.7	666.8	560.5	453.6	351.0	265.2	182.6	110.0	56.6
32.5°	1009.5	932.0	825.3	715.8	607.4	494.9	385.6	292.5	205.7	126.4	63.2
30°	1029.8	972.5	879.0	761.8	651.0	535.0	420.8	318.1	227.4	141.8	71.0
27.5°	1041.9	1010.5	926.1	807.3	690.5	572.6	453.6	341.9	247.6	157.4	83.5
25°	1061.3	1027.7	958.7	850.2	727.1	607.4	483.9	364.1	266.9	173.8	94.9
22.5°	1099.6	1037.3	988.7	889.6	760.7	639.2	512.2	389.0	284.8	188.8	105.4
20°	1134.5	1045.9	1015.9	923.4	792.3	666.8	538.2	411.5	301.0	202.3	114.8
17.5°	1203.1	1063.7	1026.1	945.6	821.5	691.4	561.4	431.6	315.3	214.3	123.1
15°	1432.4	1089.0	1032.3	965.1	846.9	713.0	581.6	449.0	327.9	224.8	130.4
12.5°	1628.9	1110.6	1037.7	981.8	868.7	731.3	598.9	463.9	338.5	233.7	136.6
10°	1791.3	1128.5	1042.1	995.5	886.6	746.4	613.1	476.1	347.3	241.0	141.7
7.5°	1918.8	1142.5	1045.5	1006.3	900.6	758.2	624.2	485.7	354.2	246.7	145.7
5°	2010.4	1152.6	1048.0	1014.0	910.6	766.7	632.1	492.5	359.1	250.8	148.5
2.5°	2065.7	1158.7	1049.5	1018.7	916.7	771.8	636.9	496.6	362.0	253.3	150.2
0°	2084.1	1160.7	1050.0	1020.2	918.7	773.5	638.5	498.0	363.0	254.1	150.8
-2.5°	2065.7	1158.7	1049.5	1018.7	916.7	771.8	636.9	496.6	362.0	253.3	150.2
-5°	2010.4	1152.6	1048.0	1014.0	910.6	766.7	632.1	492.5	359.1	250.8	148.5
-7.5°	1918.8	1142.5	1045.5	1006.3	900.6	758.2	624.2	485.7	354.2	246.7	145.7
-10°	1791.3	1128.5	1042.1	995.5	886.6	746.4	613.1	476.1	347.3	241.0	141.7
-12.5°	1628.9	1110.6	1037.7	981.8	868.7	731.3	598.9	463.9	338.5	233.7	136.6
-15°	1432.4	1089.0	1032.3	965.1	846.9	713.0	581.6	449.0	327.9	224.8	130.4
-17.5°	1203.1	1063.7	1026.1	945.6	821.5	691.4	561.4	431.6	315.3	214.3	123.1
-20°	1134.5	1045.9	1015.9	923.4	792.3	666.8	538.2	411.5	301.0	202.3	114.8



REPORT NUMBER: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1099.6	1037.3	988.7	889.6	760.7	639.2	512.2	389.0	284.8	188.8	105.4
-25°	1061.3	1027.7	958.7	850.2	727.1	607.4	483.9	364.1	266.9	173.8	94.9
-27.5°	1041.9	1010.5	926.1	807.3	690.5	572.6	453.6	341.9	247.6	157.4	83.5
-30°	1029.8	972.5	879.0	761.8	651.0	535.0	420.8	318.1	227.4	141.8	71.0
-32.5°	1009.5	932.0	825.3	715.8	607.4	494.9	385.6	292.5	205.7	126.4	63.2
-35°	963.4	876.4	768.7	666.8	560.5	453.6	351.0	265.2	182.6	110.0	56.6
-37.5°	913.5	811.9	713.0	614.2	511.0	410.0	319.0	237.2	158.0	92.6	49.6
-40°	841.3	746.4	654.5	557.8	460.5	364.1	285.2	208.2	135.8	74.2	42.3
-42.5°	766.7	681.1	591.8	498.9	408.2	325.2	250.1	177.9	113.9	61.9	34.5
-45°	694.5	612.3	525.9	440.1	355.6	284.8	215.1	147.1	91.1	52.6	28.8
-47.5°	619.2	539.5	459.4	379.2	310.0	243.5	178.8	120.6	67.6	42.9	26.3
-50°	539.5	465.8	391.9	325.3	263.0	202.3	143.0	93.2	56.3	32.8	23.7
-52.5°	459.4	391.9	330.4	273.1	216.6	159.9	111.9	66.5	44.6	27.6	21.1
-55°	379.2	325.3	273.1	221.4	169.4	123.1	79.8	53.1	32.5	24.5	18.4
-57.5°	310.0	263.0	216.6	169.4	126.9	87.3	58.2	39.3	27.0	21.2	16.8
-60°	243.5	202.3	159.9	123.1	87.3	59.9	42.7	28.5	23.2	18.2	15.1
-62.5°	178.8	143.0	111.9	79.8	58.2	42.7	29.0	24.2	19.4	16.2	13.4
-65°	120.6	93.2	66.5	53.1	39.3	28.5	24.2	19.9	16.8	14.2	11.8
-67.5°	67.6	56.3	44.6	32.5	27.0	23.2	19.4	16.8	14.5	12.2	10.8
-70°	42.9	32.8	27.6	24.5	21.2	18.2	16.2	14.2	12.2	10.9	9.7
-72.5°	26.3	23.7	21.1	18.4	16.8	15.1	13.4	11.8	10.8	9.7	8.7
-75°	18.9	17.5	16.2	14.8	13.4	12.0	11.2	10.3	9.4	8.5	7.8
-77.5°	14.5	13.4	12.3	11.6	10.9	10.2	9.5	8.8	8.1	7.6	7.0
-80°	11.0	10.5	10.0	9.5	8.9	8.4	8.0	7.5	7.1	6.6	6.2
-82.5°	8.5	8.2	7.9	7.6	7.3	7.0	6.7	6.3	6.0	5.7	5.0
-85°	6.6	6.4	6.2	6.0	5.8	5.6	5.2	4.7	4.3	3.8	3.4
-87.5°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	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: P731205 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
82.5°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
80°	5.7	4.8	3.9	2.9	1.9	1.0	0.0
77.5°	6.4	5.8	4.8	3.6	2.4	1.2	0.0
75°	7.1	6.4	5.7	4.3	2.9	1.4	0.0
72.5°	7.8	7.0	6.2	5.0	3.4	1.7	0.0
70°	8.5	7.6	6.6	5.7	3.8	1.9	0.0
67.5°	9.4	8.1	7.1	6.0	4.3	2.1	0.0
65°	10.3	8.8	7.5	6.3	4.7	2.4	0.0
62.5°	11.2	9.5	8.0	6.7	5.2	2.6	0.0
60°	12.0	10.2	8.4	7.0	5.6	2.8	0.0
57.5°	13.4	10.9	8.9	7.3	5.8	3.0	0.0
55°	14.8	11.6	9.5	7.6	6.0	3.2	0.0
52.5°	16.2	12.3	10.0	7.9	6.2	3.4	0.0
50°	17.5	13.4	10.5	8.2	6.4	3.6	0.0
47.5°	18.9	14.5	11.0	8.5	6.6	3.8	0.0
45°	21.0	15.5	11.4	8.8	6.8	4.0	0.0
42.5°	23.1	16.5	11.9	9.2	6.9	4.1	0.0
40°	25.0	17.4	12.5	9.5	7.1	4.3	0.0
37.5°	26.9	18.3	13.2	9.8	7.2	4.4	0.0
35°	28.6	19.6	13.9	10.1	7.4	4.6	0.0
32.5°	31.5	20.9	14.5	10.4	7.5	4.7	0.0
30°	36.7	22.2	15.1	10.6	7.6	4.8	0.0
27.5°	41.6	23.4	15.6	10.8	7.8	5.0	0.0
25°	46.0	24.5	16.1	11.1	7.9	5.1	0.0
22.5°	50.1	25.5	16.6	11.3	8.0	5.2	0.0
20°	53.8	26.4	17.0	11.4	8.1	5.3	0.0
17.5°	57.1	27.2	17.4	11.6	8.1	5.3	0.0
15°	59.9	27.9	17.7	11.7	8.2	5.4	0.0
12.5°	62.4	28.5	18.0	11.8	8.3	5.5	0.0
10°	64.3	28.9	18.2	11.9	8.3	5.5	0.0
7.5°	65.9	29.3	18.4	12.0	8.4	5.6	0.0
5°	67.0	29.6	18.5	12.1	8.4	5.6	0.0
2.5°	67.7	29.7	18.6	12.1	8.4	5.6	0.0
0°	67.9	29.8	18.6	12.1	8.4	5.6	0.0
-2.5°	67.7	29.7	18.6	12.1	8.4	5.6	0.0
-5°	67.0	29.6	18.5	12.1	8.4	5.6	0.0
-7.5°	65.9	29.3	18.4	12.0	8.4	5.6	0.0
-10°	64.3	28.9	18.2	11.9	8.3	5.5	0.0
-12.5°	62.4	28.5	18.0	11.8	8.3	5.5	0.0
-15°	59.9	27.9	17.7	11.7	8.2	5.4	0.0
-17.5°	57.1	27.2	17.4	11.6	8.1	5.3	0.0
-20°	53.8	26.4	17.0	11.4	8.1	5.3	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	50.1	25.5	16.6	11.3	8.0	5.2	0.0
-25°	46.0	24.5	16.1	11.1	7.9	5.1	0.0
-27.5°	41.6	23.4	15.6	10.8	7.8	5.0	0.0
-30°	36.7	22.2	15.1	10.6	7.6	4.8	0.0
-32.5°	31.5	20.9	14.5	10.4	7.5	4.7	0.0
-35°	28.6	19.6	13.9	10.1	7.4	4.6	0.0
-37.5°	26.9	18.3	13.2	9.8	7.2	4.4	0.0
-40°	25.0	17.4	12.5	9.5	7.1	4.3	0.0
-42.5°	23.1	16.5	11.9	9.2	6.9	4.1	0.0
-45°	21.0	15.5	11.4	8.8	6.8	4.0	0.0
-47.5°	18.9	14.5	11.0	8.5	6.6	3.8	0.0
-50°	17.5	13.4	10.5	8.2	6.4	3.6	0.0
-52.5°	16.2	12.3	10.0	7.9	6.2	3.4	0.0
-55°	14.8	11.6	9.5	7.6	6.0	3.2	0.0
-57.5°	13.4	10.9	8.9	7.3	5.8	3.0	0.0
-60°	12.0	10.2	8.4	7.0	5.6	2.8	0.0
-62.5°	11.2	9.5	8.0	6.7	5.2	2.6	0.0
-65°	10.3	8.8	7.5	6.3	4.7	2.4	0.0
-67.5°	9.4	8.1	7.1	6.0	4.3	2.1	0.0
-70°	8.5	7.6	6.6	5.7	3.8	1.9	0.0
-72.5°	7.8	7.0	6.2	5.0	3.4	1.7	0.0
-75°	7.1	6.4	5.7	4.3	2.9	1.4	0.0
-77.5°	6.4	5.8	4.8	3.6	2.4	1.2	0.0
-80°	5.7	4.8	3.9	2.9	1.9	1.0	0.0
-82.5°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
-85°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-87.5°	1.4	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

